### DEPARTMENT OF THE ARMY TECHNICAL MANUAL

#### OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS LIST

**FOR** 

GRINDING KIT, VALVE SEAT (K O LEE CO, INC)

(4910-00-060-9983)

HEADQUARTERS, DEPARTMENT OF THE ARMY

**APRIL 1978** 

**TECHNICAL MANUAL** 

No. 9-4910-600-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTION, DC, 21 April 1978

Operator, Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts List for GRINDING KIT, VALVE SEAT (KO LEE CO, INC) (NSN 4910-00-060-9983)

#### REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in the back of the manual and mail the form to Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished direct to you.

#### NOTE

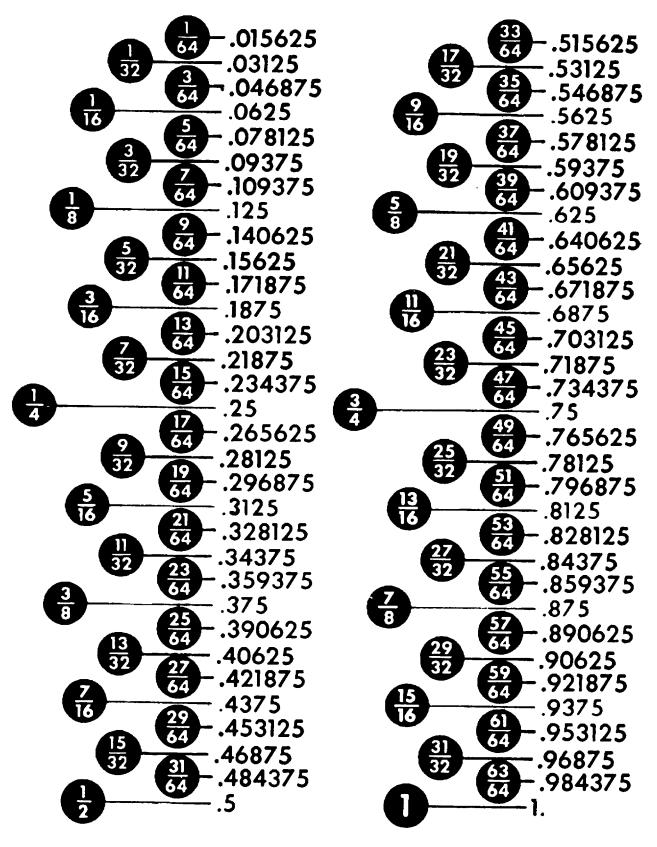
This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom the grinding kit is issued.

Manufactured by: K.O. Lee Co., Inc.

200 S. Harrison Aberdeen, SD 57401

Procured under Contract No: DAAA09-76-C-6346

### **DECIMAL CHART**



### MILLIMETER CONVERSION CHART

mm, ins.	155905	30 =1,1811	45 = 1,7716	60 =23622	75 - 2.9527	90 = 3.5433	105 =4.1338	120 = 4.7244
.25 = .0098 .50 = .0197	15.25 = .6004 15.50 = .6102	30.25 = 1.1909 30.50 = 1.2008	45.25 = 1.7815 45,50 = 1.7913	60.25 = 2.3720 60.50 = 2.3819	75.25 = 2.9626 75.50 = 2.9724	90.25 = 3,5531 90.50 = 3,5630	105.25 = 4.1437 105.50 = 4.1535	120.25 = 4.7342 120.50 = 4.7441
.75 = .0295	15.75 = .6201	30.75 = 1.2106	45.75 = 1.8012	60.75 = 2.3917	75.75 = 2.9823	90.75 = 3.5728	105.75 = 4,1634	120.75 = 4.7539
			<u> </u>		1			101 -47430
1 =.0394	16 = .6299	31 -1,2205	46 = 1.8110	61 -2.4016	76 =2.9921	91 = 3.5827	106 =4.1732	121 -4.7638
1.25 = .0492	16.25 = .6398	31.25 = 1.2303	46.25 = 1.8209	61 25 = 2.4114	76.25 = 3.0020	91.25 = 3.5925	106.25 + 4.1831	121.25 = 4.7736
1.50 = .0591 1.75 = .0689	16.50 = .6496 16.75 = .6594	31.50 = 1.2402 31.75 = 1.2500	46.50 = 1.8307 46.75 = 1.8405	61.50 = 2.4213 61.75 = 2.4311	76.50 = 3.0118 1 76.75 = 3.0216	$91.5\overline{0} = 3.6024$ 91.75 = 3.6122	106.50 = 4.1929 106.75 = 4.2027	121.50 = 4.7885 121.75 = 4.7933
1.73 = .0007	10.73 = .0394	3173=1,2300	!	01.73 - 2.4311	. 70.73 = 3.0210	¥1.73 = 3.0122	100.73 = 4.2027	
2 = .0787	17 = .6693	32 =1.2598	47 = 1.8504	62 = 2.4409	77 = 3.0315	92 -3.6220	107 =4.2126	122 =4.8031
2.25 = .0886	17.25 = .6791	32.25 = 1.2697	47.25 = 1.8602	62.25 = 2.4508	77.25 = 3.0413	92.25 = 3.6319	107.25 = 4.2224	122.25 = 4.8130
2.50 = .0984	17.50 = .6890	32.50 = 1.2795	47.50 = 1.8701	62.50 = 2.4606	77.50 = 3.0512	92.50 = 3.6417	107.50 = 4.2323	122.50 = 4.8228
2.75 = ,1083	17,75 = .6988	32.75 = 1.2894	47.75 = 1.8799	62.75 = 2.4705	77.75 = 3.0610	92.75 = 3.6516	107.75 = 4.2421	122.75 = 4.8327
3 -,1181	18 = .7087	33 =1.2992	48 =1.8898	63 = 2.4803	78 = 3.0709	93 = 3.6614	108 =4.2520	123 =4.8425
3.251280	18,25 = .7185	33.25 = 1.3091	48.25 = 1.8994	63.25 = 2.4901	78.25 = 3.0807	93.25 = 3.6713	108.25 = 4.2618	123.25 = 4.8524
3.501378	18.507283	33.50 = 1.3189	48.50 = 1.9094	63.50 = 2.5000	78.50 = 3.0905	93.50 = 3.6811	108.50 = 4.2716	123.50 = 4.8622
3.75 = 1476	18.75 = .7382	33.75 = 1.3287	48.75 = 1.9193	63.75 = 2.5098	78.75 = 3.1004	93.75 = 3.6909	108.75 = 4.2815	123.75 = 4.8720
41575	19 = 7480	34 _= 1.3386	49 = 1.9291	64 = 2.5197	79 = 3.1102	94 = 3.7008	109 -4.2913	124 =4,8819
4.25 = .1673	19.25 = .7579	34.25 = 1.3484	49.25 = 1.9390	64 25 = 2.5295	79.25 = 3.1201	94,25 = 3.7106	109.25 = 4,3012	124.25 = 4.8917
4.50 = .1772	19.50 = .7677	34.50 = 1.3583	49.50 = 1.9488	64.50 = 2.5394	79.50 = 3.1299	94.50 = 3.7205	109.50 = 4.3110	124.50 = 4.9016
4.75 - 1870	19.75 = .7776	34,75 = 1.3681	49.75 = 1.9587	64.75 = 2.5492	79.75 ± 3.1398	94.75 = 3.7303	109.75 = 4.3209	124.75 = 4.9114
5 =.1968	20 = .7874	35 =1.3779	50 = 1.9685	65 = 2.5590	80 = 3.1496	95 =3.7401	110 =4.3307	125 = 4.9212
					80.25 = 3.1594			
5.25 = .2067 5.50 = .2165	20.25 = .7972 20.50 = .8071	35.25 = 1.3878 35.50 = 1.3976	50.25 = 1.9783 50.50 = 1.9882	65.25 = 2.5689 65.50 = 2.5787	80.50 = 3.1693	95.25 ≃3.7500 95.50 =3.7598	110.25 = 4.3405 110.50 = 4.3504	125.25 = 4.9311 125.50 = 4.9409
5.75 = .2264	20.75 = .8169	35.75 = 1.4075	50.75 = 1.9980	65.75 = 2.5886	60.75 = 3.1791	95.75 ~ 3.7697	110.75 = 4.3602	125.75 = 4.9508
6 = .2362	218268	36 = 1.4173	51 = 2.0079	66 = 2.5984	81 = 3.1890	96 = 3.7795	111 -4.3701	126 = 4.9606
		:		i				
6.25 = .2461 6.50 = .2559	21.25 = .8366 21.50 = .8465	36.25 = 1.4272 36.50 = 1.4370	51.25 = 2.0177 51.50 = 2.0276	66.25 = 2.6083 66.50 = 2.6181	81.25 = 3.1988 81.50 = 3.2087	96.25 = 3.7894 96.50 = 3.7992	111.25 = 4.3799 111.50 = 4.3898	126.25 = 4.9705 126.50 = 4.9803
6.75 = .2657	21.75 = .8563	36.75 = 1.4468	51.75 = 2.0374	66.75 = 2.6279	81.75 = 3.2185	96.75 = 3.8090	111.75 = 4.3996	126.75 = 4.9901
7 - 2764	22 8441		52 = 2 0472	67 = 2.6378	82 = 3.2283	97 = 3,8189	112 =4.4094	127 = 5.0000
7 = .2756	22 = .8661	37 = 1.4567	1 2 204/2	0/ = 2.03/0	02 = 3.2203	y/ =3.018Y .	112 =4.4094	127 = 3.0000
7.25 = .2854	22.258760	37.25 = 1 4665	52.25 = 2.0571 52.50 = 2.0669	67.25 = 2.6476	82.25 = 3.2382 82.50 = 3.2480		112.25 = 4.4193	
7.50 = .2953 7.75 = .3051	22.50 = .8858 22.75 = .8957	37.50 = 1.4764 37.75 = 1.4862	52.75 = 2.0768	67.50 = 2.6575 67.75 = 2.6673	82.75 = 3.2579	97.50 = 3.8386 97.75 = 3.8484	112.50 = 4.4291 112.75 = 4.4390	
			i	!			!	
8 =.3150	239055	38 → = 1,4961	53 = 2.0866	`68 ≖2.6772 ;	83 = 3.2 <i>677</i>	98 =3.8583	113 =4.4488	
8.25 = .3248	23.259153	38.25 = 1.5059	53.25 = 2.0965	68.25 = 2.6870	83.25 = 3.2776	98.25 = 3.8681	113.25 = 4,4587	
8.10 = 3346 8.75 = 3445	23.50 = 9252 23.75 = .9350	38.50 = 1.5157 38.75 = 1.5256	53.50 = 2.1063 53.75 = 2.1161	68.50 = 2.6968 68.75 = 2.7067	83.50 = 3.2874 83.75 = 3.2972	98.50 = 3.8779 98.75 = 3.8878	113.50 = 4.4685 113.75 = 4.4783	
		; }			:			
9 =.3543	24 - 9449	39 =1.5354	54 = 2.1260	69 = 2.7165	64 = 3.3071	99 = 3.8976	114 =4.4882	
9.25 = .3642	24.25 = .9547	39.25 = 1.5453	54.25 = 2.1358	69.25 = 2.7264	84.25 = 3.3169	99.25 = 3.9075	114.25 - 4.4980	
9.50 = .3740	24.50 = .9646 24.75 = .9744	39.50 = 1.5551 39.75 = 1.5650	54.50 = 2.1457 54.75 = 2.1555	69.50 = 2.7362	84.50 = 3.3268	99.50 = 3.9173	114.50 = 4.5077	
9.75 = .3839	24./3 = .9/44	39.73 = 1.3630	j	69.75 = 2.7461	84.75 = 3.3366	99.75 = 3.9272	114,75 = 4,5177	
103937	25 = .9842	40 = 1.5748	55 = 2.1653	70 = 2.7559	85 =3.3464	100 = 3.9370	115 =4.5275	
10.25 = .4035	25.25 = .9941	40,25 = 1.5846	55.25 = 2.1752	70.25 = 2.7657	85.25 = 3.3563	100.25 = 3.9468	115.25 = 4.5374	
10.50 = .4134	25.50 = 1.0039	40.50 = 1.5945	55.50 = 2.1850	70.50 = 2.7756	85.50 = 3.3661	100.50 = 3.9567	115.50 = 4.5472	
10.75 = ,4232	25.75 = 1.0138	40.75 = 1.6043	55.75 = 2,1949	70.75 = 2.7854	85.75 = 3.3760	100.75 = 3.9665	115,75 = 4.5571	
11 =.4331	26 =1.0236	41 =1.6142	56 -2.2047	71 = 2.7953	86 = 3.3858	101 = 3.9764	116 -4.5669	
11.25 = .4429	26.25 - 1.0335	41,25 = 1.6240	56.25 = 2.2146	71.25 = 2.8051	86.25 = 3.3957	101.25 = 3.9862	116.25 = 4.5768	
11.50 = .4528	26.50 - 1.0433	41.50 = 1.6339	56.50 = 2.2244	71.50 = 2.8150	66.50 = 3.4055	101.50 = 3.9961	116.50 = 4.5866	
11.75 = .4626	26.75 = 1.0531	41,75 = 1,6437	56.75 = 2.2342	71,75 = 2.8248	86.75 = 3.4153	101,75 = 4.0059	116.75 = 4.5964	
12 =.4724	27 -1.0630	42 -1.6535	57 =2.2441	72 = 2.8346	87 = 3.4252	102 =4.0157	117 =4.6063	
12.25 = .4823	27.25 - 1.0728	42.25 = 1.6634	57.25 = 2.2539	72.25 = 2.8445	87.25 = 3.4350	102.25 = 4.0256	117.25 = 4.6161	
12.25 = .4921	27.50 = 1.0827	42.50 = 1.6732	57.50 = 2.2638	72.50 = 2.8543	87.50 = 3.4449	102.50 = 4.0354	117.50 = 4.6260	
12.75 = .5020	27.75 = 1.0925	42,75 = 1.6831	57.75 = 2.2736	72.75 = 2.8642	87.75 = 3.4547	102.75 = 4.0453	117.75 = 4.6358	
135118	28 =1.1024	43 -1.6929	58 =2.2835	73 = 2.8740	88 =3.4646	103 =4.0551	118 -4.6457	
13.25 = .5217	28,25 = 1,1122	43.25 = 1.7028	58.25 = 2.2933	73.25 = 2.8839	88.25 = 3.4744	103.25 = 4.0650	118.25 = 4.6555	
13.50 = .5315	28.50 = 1.1220	43.50 = 1.7126	58.50 = 2.3031	73.50 = 2.8937	88.50 - 3.4842	103.50 = 4.0748	118.50 = 4.6653	
13.75 = .5413	28.75 = 1.1319	43.75 = 1.7224	58.75 = 2.3130	73.75 = 2.9035	88,75 - 3,4941	103.75 = 4.0846	118.75 = 4.6752	
14 =.5512	29 =1,1417	44 = 1,7323	59 =2.3228	74 ±2.9134	89 = 3.5039	104 -4.0945	119 =4.6850	
14.255610	29.25 = 1.1516	44.25 = 1.7421	59.25 = 2.3327	74.25 = 2.9232	89.25 = 3.5138	104.25 = 4.1043	119.25 = 4.6949	
14.50 = .5709	29.50 = 1.1614	44.50 = 1.7520	59.50 = 2.3425 59.75 = 2.3524	74.50 = 2.9331	89.50 = 3.5236	104.50 = 4.1142	119.50 = 4.7047	
14.755807	29.75 - 1.1713	44.75 = 1.7618	j 34./3 = 2.3324	74.74 = 2.9429	89.75 = 3.5335	104.75 = 4.1240	119.75 = 4.7146	



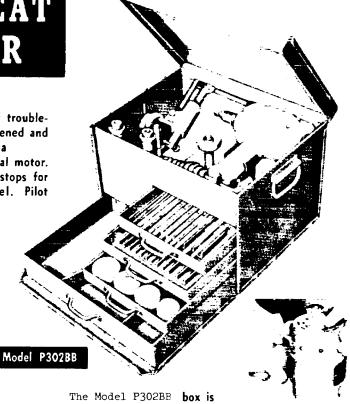
Designed to give years of troublefree service. Pilots are hardened and ground. Driver incorporates a

ball bearing type universal motor. Wheel dresser has positive stops for accurate dressing of wheel. Pilot

wrench is of patented construction enabling quick insertion and release of pilot in guide. Wheel holders have hardened and ground bushings, ball bearing type have dust sealed bearings.

#### **PILOTS**

Each pilot ranges from —.003 to +.007 of basic range stamped on pilot.



of heavy gauge steel construction and has individual storage for all pilots available. Space is provided for storage of additional attachments and angle drive.

### MODEL P302BB UNIVERSAL BALL BEARING VALVE SEAT GRINDER

#### DESIGNED TO SERVICE MOST CARS, TRUCKS, AND TRACTORS

Consists of	the following equipment:			
One P61 One P83 One P84	Pilot Wrench 5/16" Self Expanding Pilot 11/32" Self Expanding Pilot	One P235 One P235F One P235R	1-1/2" 1-1/2" 1-1/2"	General Purpose Grinding Wheel Finishing Grinding Wheel Roughing Grinding Wheel
One P84L One P85 One P97R	11/32" Self Expanding Pilot (6-1/2" Length) 3/8" Self Expanding Pilot 397" Self Expanding Pilot	One P237 One P237F One P237R	1-5/8" 1-5/8" 1-5/8"	General Purpose Grinding Wheel Finishing Grinding Wheel Roughing Grinding Wheel
One P97 One P86 One P87 One P88	13/32" Self Expanding Pilot 7/16" Self Expanding Pilot 1/2" Self Expanding Pilot 9/16" Self Expanding Pilot	One P239 One P239F One P239R	1-3/4" 1-3/4" 1-3/4"	General Purpose Grinding Wheel Finishing Grinding Wheel Resolves Grinding Wheel
One P372 One P189 One P196X	Wheel Dresser with No. P176D Diamond Screw Tube Brush for cleaning Holder Ball Bearing Grinding Wheel Holder (11/16"	One P241 One P241F	1-7/8" 1-7/8"	Roughing Grinding Wheel General Purpose Grinding Wheel Finishing Grinding Wheel
One P198X	Threaded End)  Ball Bearing Crinding Wheel Holder (9/16"  Threaded End	One P241R One P243 One P247	1-7/8" 2" 2-1/4"	Roughing Grinding Wheel General Purpose Grinding Wheel General Purpose Grinding Wheel
One P190B One P522V	Adapter Bushing (9/16" to 11/16") No Charge Utility Driver with Safety Button Switch and 10 ft. 3 conductor cable with plug (3rd wire for ground), 110 volt AC-DC	One P251 One P500B		General Purpose Grinding Wheel  ool Chest (10" high x 14-3/16" wide x  3/4" deep — Weight 21 lbs.)
One P223	Hexagonal Ball Terminal for 15/32" shaft			Net Shipping Weight 45 lbs.

With the substitution of P190 for the P196X and the P191 for the P198X, the P302BB set becomes the P302 set

### **VALVE SEAT GRINDERS**

#### Model P300 Basic Valve Seat Grinder

Designed to service cars, trucks, and tractors in addition to the items listed below, the operator must select those stones, pilots, and other accessories necessary to service selected motors. Shipping Weight 39 lbs One P61
One P372
One P189
One P190
One P52ZV Pilot Wrench Wheel Dresser with No. P176D Diamond Screw One P190
One P190
One P190
One P522V
One P522V
One P522V
One P522V
One P528
One P500B

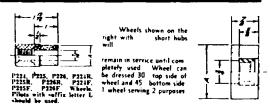
O With substitution of P196X for P190, set becomes P300BB ball brg. set.

#### Model P301 Junior Valve Seat Grinder

Designed to service most makes of cars, small trucks, and tractors Additional grinding wheels, pilots and other accessories may be purchased when needed. Shipping Weight 41 lbs

One PS1	Pilot Wrench
One P83	5/16" Self Expanding Pilot
One P84	11/32" Self Expanding Pilot
One P85	3/8" Self Expanding Pilot
One P97R	Self Expanding Pilot Oldsmobile Rocket?
One P372	Wheel Dresser with No P176D Diamond Screw
One P189	Tube Brush for cleaning Holder
One P190	Grinding Wheel Holder 11/16" Threaded End
One P522V	Utility Driver with Safety Button Switch, 110V
One P223	Hexagonal Ball Terminal for 15/32" Shaft
One each of	the following Grinding Wheels:
	-1/2", P237 1-5/8", P239 1-3/4" General Purpose
P235F 1	-1/2", P237F 1-5/8", P239F 1-3/4" Finishing
	-1/2", P237R 1-5/8", P239R 1-3/4"Roughing
One P5008	Box 10" high x 14 3, 16" wide x 10-3/4" deep
	tion of P196X for P190, set becomes P301BB ball brg. set.

#### VALVE SEAT GRINDING WHEELS



GENERAL PURPOSE	FINISHING	ROUGHING WHEELS A-DIAM	GENERAL	FINISHING	ROUGHING WHEELS A-DIAM.
· P224	P224F	P224R '	P238	P238F	P238R 1%6"
P225	P225F	P225R '\"	P239	P239F	P239R 1 4"
7226	P226F	P226R 1 "	P240	P240F	P240R 1"\"
P227	P227F	P227R 1 %"	P241	P241F	P241R 1 %"
7228	P228F	P228R 116"	P242	P242F	P242R 11%"
P229	P229F	P229R 1 %"	P243	P243F	P243R 2 "
P231	P231F	P231R 1 1/4"	P245	P245F	P245R 2 1/3"
P232	P232F	P232R 1 %"	P247	P247F	P247R 214"
P233	P233F	P233R 13."	P251	P251F	P251R 2 '4"
P234	P234F	P234R T %"	P255	P255F	P255R 2 4"
P235	P235F	P235R 11',"	P259	P259F	P259R 3 "
P236	PZ36F	P236R 11""	P261	P261F	P261R 3 4"
P237	P237F	P237R 1 '1"	P263	P263F	P263R 3 ',"

P237	P237F	P237R	13."	P26			31 3 5
		CRINDIN	IC WH	FOR 2133	STELLIT	Έ	
No.	A - Diam	. No.	A-Dian	1. No.	A Diam.	No.	A-Diam
P231S	1 14"	P237S	15"	P2435	2 "	P2515	2 1/4"
P233\$	1 3."	P2395	1 %"	P245S	2 14 "	P255S	2 4"
72355	1 57	P2415	134"	P247S	2 14"	P2595	3 "
Whee	مسورات ام	1." -16th	1 A11	other K O	Wheels	have 16.	1664

Wheels with "4" S.A.E. threads can be used on "4" threaded end holders and those made by other manufacturers
by using a No. P1908 Bushing 1"" to ""
Wheels P224, P225,

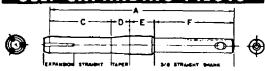
P226, P227, P228, P229 are designed for small engine service.

#### GENERAL PURPOSE

### Grinding Wheels

No. A-D	Nam. Na.	A-Diam.	No.	A-Diam.	No.	A-Diam
P236K 1 9 P237K 1 9 P239K 1 9	i" P243K	1 71" 2 " 2 '1"	P247K P251K P255K	211"	P261K	3 " 34" 34"

#### SELF EXPANDING PILOTS



The Simplest, Most Accurate Pilot Made!

All advantages of a solid one-piece taper pilot plus the accuracy and rigidity assured by the expansion of the lower end.

The true center of a worn guide is found and as a result the valve seat is reconditioned concentric with the actual operating line of movement of the valve stem.

The taper that contacts the upper part of the guide is slight. The pilot anchors deep down in the guide where proper bearing is

art No.	Pilat Size	A	C Na 1 Ng	D T	E	
295S 295		- 41% 51%	1 %	- % - %		,
95L —	У	_ 5% -	1 %	<del>-2</del> -		3
96S	<u>%</u>		13/4	- %		i
96	🤻	5742.	1 1/4	—¾		— <b>;</b>
96L	%	87/4		<u> </u>		4
835		48		; <del>`</del>		2
83		<del></del>		—; <u>;</u> —	<del></del>	2
ROR	X <sub>4</sub> + 015	5 1/2	i i	v		2
RIRL	K. + .015	6 1/4	1 1/4	— <u>;</u>	и	3
83L	- X, + .015	6 12	1 %	— <u>~</u> —	ĸ	j
915	154	6 ½ 4 ¼ 5 ½	1 1/4			2
81	- 1½,	5 1/4	1 1/			2
84M	' 'K. ' ' '	41:	<sub>1'Y</sub>	14		1
H41,	11,50	_6 ¼ _	1 1/	—,		3
* IR	%+.015	5 1/4	1 1/4	—		2
81RL	'X.+.015	_6 ¼ _		— <sub>1/4</sub> —		3
955	370	1 ½ 5 ¼	174			2
85F	.370	5 1/4	2	<sub>'4</sub>		3
85		5 1/2	2			3
95R	7; + .013 	5 1/2	2	<sub>14</sub>		_ ,
SSRL.	.+.815	7	2		Ж	3
×51.		7	2		*	
97R	.397	5 1/4	1 %			3
97	11,	-,	2	- 4		3
97 V	11	7 1/4	2 1/4	1/4	74_	3
97R M	'S」+ .010	71/4	2 1/4	—, <u>,</u> —	X.	3
971.	ης,	81/4	2 1/		1 1/2	3
MES .	×	_5 1/4	_ i v̂	;		3
86	ν.	6 1/4	2 14	¥		3
86.14		7 1/		- 4-	*	. 3
MAR'''	%+.015	7 1/4			* *	3
NET.	γ,	81:	_2;;		1 %	3
914	11/32		21,	<sub>¼</sub>		3
87S	' 2	4 V		- 14		3
×7	· ', ·-	6 14	2 1/4	— <sub>v</sub>		3
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хи <b>м</b>	~- ~	714	2 1/4	1/4	X4	3
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R216	51,MM 6MM	47%	i x			3
R236	6MM	17%	1 1%	74		2
8236S	6MM	4 34	1%, 1%,	- ×		2
N255	61,MM	41%	1 %	%		2
R275	7MM	12/4	1 %	<u> </u>		2
R295	71;MM	5 1/4	17%			3
8315	8MM	5 34	1772.	*		3
N331	81,MM	5 1/2	1774	<sub>1/4</sub>		3
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8375	9',MM	5 %	2	—; <u>;</u>		3
*393	10MM	5 1/		— i; · · · ·		3
4133	LIMM	5 14	14	<del>;</del>		1
×172	12MM	6 1/4	- X			3
RR20	.R20	12	·	Š		

P90 .850" Special Pilot for

PS1 1-1/32"x1" Special Pilot for removed from engine. V-8 for use when lifters are

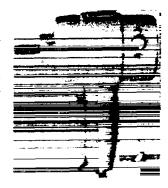
Each pilot ranges from —003" to +.007" of basic range stamped on pilot. One pilot does the work of several solid type pilots.

### VALVE SEAT GRINDER ACCESSORIES

#### UTILITY DRIVER

PS22V 1/3 H.P. UTILITY DRIVER with safety button switch id 10 ft. 3-conductor cible, 115V and 230V motors available specify voltage.

P322 32V ¼ H.P. UTILITY DRIVER available.



GROUNDING. These motors are equipped with a three conducfor cord with the ground wire (green covered conductor) connected internally to the motor housing. To give maximum protection connect the plug-in of this green ground wire to a permanent ground or a suitable grounding device.

#### PILOT WRENCHES

\$361 Special

Pilot Wrench. Pilot Wrench.

#### WHEEL DRESSER

#### P372 Wheel Dresser

FEATURES:

The Wheel Dresser is mounted on non-skid rubber pads which elimi-nate vibration and hold it firmly to the work bench while wheel is being dressed. It is quick and simple to operate as the plunger and diamond are held by constant friction and re-quire no locks or adjustment for the life of the tool.

The plunger is protected from abrasive dust by dust scals at both ends.

The swivel is graduated with positive stops for 0, 15, 30, 45, 60, 75 and 90 degrees.

Vertical screw adjustment for raising or lowering position of grinding stone, making possible diamond dressing of smallest diameter wheels and any angle requirements.

Base Dimensions ..... 51/4" x 71/4"

Net Weight ..... .....1014 Hbs.

#### GRINDING WHEEL HOLDERS



15" HEX DRIVE P190 4" long, 15" hex socket, 11.16" threaded end P5190 234" long, 12" hex socket, 11/16" threaded end.

P191 4" long, ½" hex socket, 9 16" threaded and P196X Ball bearing, 4" long, ½" hex socket, 13/16" threaded and P198X Ball bearing, 4" long, ½" hex socket, 9/16" threaded and P398 4" long, ½" hex socket, 9/16" threaded and P398 4" long, ½" hex socket, 9/16" threaded

end 54" HEX DRIVE
P197X Ball bearing, 4" long, 35" hex socket, 11/16" threaded end.
P199X Ball bearing, 4" long, 55" hex socket, 9/16" threaded end.
P390 4" long, 55" hex socket, 11/16" threaded end.
P390 234" long, 55" hex socket, 11/16" threaded end.
P391 4" long, 55" hex socket, 11/16" threaded end.
P391 4" long, 55" hex socket, 18/16" threaded end.
P399 4" long, 75" diameter, 75" hex socket, 9,16" threaded end.

#### ANGLE DRIVE ATTACHMENT



P360 1/2" Hex Angle Drive Attachment P362 %" Hex Angle Drive Attachment

Over-all length 11"; net weight 14 ox.

#### P460 CEARED ANGLE DRIVE -- 60° Angle drive designed especially for close quarters

Available in two gear ratios, 1 to 1 for grinding wheels up to 2½ diam., 1½ to 1 for larger grinding wheels. Fits all drivers.



P460 Ceared Angle Drive (1 to 1, ½" hex drive)
P461 Ceared Angle Drive (1½ to 1, ½" hex drive)
P462 Ceared Angle Drive (1½ to 1, ¾" hex drive)
P463 Ceared Angle Drive (1½ to 1, ¾" hex drive)

#### SEAT INDICATOR

P350 Indicator to Fit 3/2" Pilot



### HEX BALL TERMINALS

AND ADAPTER SLEEVES
P223 1/2" Hex Ball Terminal for 15 32" Motor Shaft
P220 5/2" Hex Ball Terminal for 15 32" Motor Shaft
P2165 Split Adapter Sleeve (15/32" to 3/4")
P2175 Split Adapter Sleeve (15/32" to 3/4")



#### CARBON REMOVING WIRE BRUSHES

Must Be Used With P217 Collet Chuck

WB210S Wire Brush 174" diameters WB2205 Wire Brush (11/2" diameter WB210F Wire Brush (11/2" diameter—flared)

#### ALVE GUIDE REAMERS

Solid Type



Number Size	Number Size	Number Size
H1236 6MM	H1334 81/MM	
		H1393 10MM
H1250 14"	H1343 11732"	H1397 .397"
H1255 61/5 MM	H1353 11/32"#.010	H1406 13/32
H1275 7MM	H1363 11/32"- 020	H1437 7/16"
H1281 9 32"	H1354 9MM	H1472 12MM
H1295 716MM	H1373 300Z	
111252 T. Same		מי טַעניווו
H1312 5/16"	H1374 91/5MM	H1500 15" H1625 %
H1315 8MM	M1375 34"	

### VALVE SEAT GRINDER ACCESSORIES

#### HAND GRINDING ATTACHMENTS



One P136L 114" x 1" x 14" Shank Mounted Wheel One P137L 114" x 1" x 14" Shank Mounted Wheel



#### P217 Collet Chuck

14" Collet Chuck for 15/32" Motor Shaft for holding mounted wheels, abrasive disk holders.

Notice:
Description of the control o

#### ABRASIVE DISC ATTACHMENT

P277 Abrasive Disc Attachment



Abrasive Disc, 4" diameter, No. 10 grit, ¼" hole Abrasive Disc, 4" diameter, No. 24 grit, ¼" hole Abrasive Disc, 4" diameter, No. 36 grit, ¼" hole Abrasive Disc, 4" diameter, No. 60 grit, ¼" hole Abrasive Disc, 4" diameter, No. 100 grit, ¼" hole Abrasive Disc, 5" diameter, No. 100 grit, ¼" hole Abrasive Disc, 5" diameter, No. 24 grit, ¼" hole Abrasive Disc, 5" diameter, No. 36 grit, ¼" hole Abrasive Disc, 5" diameter, No. 60 grit, ¼" hole Abrasive Disc, 5" diameter, No. 60 grit, ¼" hole Abrasive Disc, 5" diameter, No. 80 grit, ¼" hole Abrasive Disc, 5" diameter, No. 90 grit, ¼" hole Abrasive Disc, 5" diameter, No. 100 grit, ¼" hole Abrasive Disc, 5" diameter, No. 100 grit, ¼" hole Abrasive Disc, 5" diameter, No. 100 grit, ¼" hole Abrasive Disc, 5" diameter, No. 100 grit, ¼" hole Abrasive Disc Disc Holder only 100 grit, ¼" hole 51¼" grit Bisching for Abrasive Disc. 41¼" sibre Backing for Abrasive Disc. 41¼" sibre Backing for Abrasive Disc Disc Holder only 11½ grit Sibre Backing for Abrasive Disc Bisching for Abrasive Disc Disc Holder only 11½ grit Sibre Backing for Abrasive Disc Disc Holder only 11½ grit Bisching Wheel 50 4" x ½" x 3½" hole plain Grinding Wheel by 12½ grid Bisching Wheel 11½ grit Bisching Wheel 12½ grid Bisching Wheel

NOTE: Both the 31/4" and 41/4" Fibre Backings should be used to support 5" Discs, whereas only the 31/4" Backing is necessary for 4" Discs. When the outer edge of a Disc is worn, it can be trimmed by holding it edgeways against any sharp metal while the Driver is running.

#### TOOL POST HOLDER

In the use of a tool post holder listed below, the Driver can be mounted on a lathe for internal and cylindrical grinding. Tool Post Holder,  $\frac{1}{3}(x-3-x)$  Shank Tool Post Holder,  $\frac{1}{3}(x-x)$  Shank Tool Post Holder,  $\frac{1}{3}(x-x)$  I/ $\frac{1}{3}(x-3)$  Shank Motor Switch Hold Down Ring

### UTILITY HAND GRINDER SET



#### HAND GRINDING ATTACHMENT (P280)

for die and pattern Used with recunted wheels straight and cup wheels up to 4" makers

#### TOOL POST HOLDER (P270)

Three shank sixes available. Doubles as auxiliary handle for sanding and off-hand grinding.

#### ABRASIVE DISC ATTACHMENT (P277)

Uses 4" and 5" abrasive discs. High speed cuts faster, prevents loading. Complete with 14 assorted abrasive discs.



P400 UTILITY HAND GRINDER SET includes

P522 Utility Driver
P270 Tool Post Holder
P277 Abrasive Disc Attachment
P280 Hand Grinding Attachment
P5008 Senal Rev

P5008 Steel Box

features: It is compact. Light weight and easy to handle. Quickly and easily adapted for use with 4" and 5" abrasive discs, grinding wheels from small mounted ones to 3" diameter straight and cup wheels. Tool post holder converts it to a tool post grinder or doubles as an extra handle for off-hand work. Packed in sturdy steel box with room for extra sanding discs, grinding wheels and accessories.

### SEAT GRINDER OPERATING INSTRUCTIONS

#### Clean Carbon

Remove all oil, grease and carbon from the top of block, combustion chamber and valve ports. quickest way to remove carbon is to use the

high speed driver with a special (No. WB-220S) held in a collet chuck. (Chuck No. P217 for 15/32" motor shaft or No. P218A for 3/8" motor shaft.)

#### Clean Valve Guides

Carbon should be cleaned from the guides to prevent the valve stems from sticking. This work should be done before starting to grind the valve seats. The use of a reamer is recommended as the most practical tool for this job because it does not increase the size of the hole.

# SOLID TYPE HIDOO SERIES





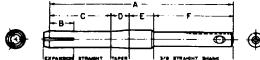




#### Pilot

Select the proper size expanding pilot and insert in the valve guide, pilot wrench furnished. using the Push the pilot down as far as possible and tighten or lock it by turning slightly. Wipe the upper part of the pilot and put on a drop or two of light oil. To remove pilot, turn with

Pilot Wrench wrench and lift out.



Grinding wheels must be kept free of oil. A greasy wheel will not cut. Only a thin film of oil should be put on the pilot because any surplus oil will be scraped down by the wheel holder and subsequently be thrown by centrifugal force onto the wheel. A greasy wheel can be washed in gasoline.

#### P215A Flexible Drive Shaft



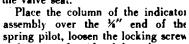
Flexible shaft No. P215A can also be used with a " high speed electric drill to grind inconvenient valve seats located under the dash.

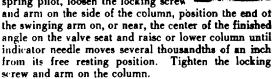
P215A Flexible Drive Shaft (5½" long) ½" Hex. P215B Flexible Drive Shaft (5½" long) ½" Hex.

Collet Chuck Adapter Required.

#### Dial Indicator No. P350

The quality of workmanship on your valve seat grinding job, beyond visual inspection, can be checked with the use of the indicator. The indicator must be used only after grinding the valve seat and before removing the expanding pilot from the valve guide hole. Do not attempt to check the eccentricity of the valve seat angle if the pilot position has been altered in any way from its original position used when grinding the valve seat.





Grasping the knurled thumb collar very lightly with the thumb and middle finger, rotate indicator slowly and observe the amount of eccentricity by the movement of the pointer on the dial of the indicator.

Naturally, the less the pointer on the dial indicator moves, the better your seat grinding job. While no set limit is adopted, we find it is not uncommon to attain reading of .0015 total indicator reading and with valve seat grinding tools experience with the this reading can be reduced to less than .0005.

#### Checkina

After each valve seat has been ground, use the dial indicator again to be sure the job is accurate.

### Angle Drive Attachment

The P360 or P362 Angle Drive Attachment can be used when grinding airplane cylinders and hard-toget-at seats in automobile motors. Fits all drivers. Overall length 11"; net weight 14 oz.

#### P460 Geared Angle Drive-

An angle drive designed especially for close quarters.



Available in two gear ratios, 1 to 1 for grinding wheels up to 21/2 diam., 11/2 to 1 for larger grinding wheels. Fits all drivers.

P460 Geared Angle Drive (1 to 1, " hex drive)

P461 Geared Angle Drive (1½ to 1, ½" hex drive)
P462 Geared Angle Drive (1 to 1, ½" hex drive)
P463 Geared Angle Drive (1½ to 1, ½" hex drive)

### SEAT GRINDER OPERATING INSTRUCTIONS

#### Wheel Holder

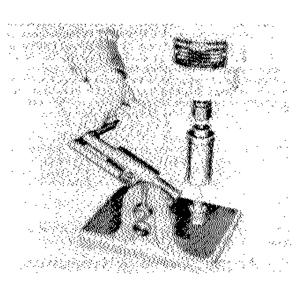
Before grinding any valve seats, it is important that the sleeve bearing of the wheel holder be thoroughly cleaned with gasoline, using the tube brush furnished for this purpose. This will prolong the life of both wheel holders and pilots.

After cleaning the holder, select a grinding wheel of proper size. Mount the wheel on the holder, screwing

it firmly against the shoulder.

#### Wheel Dresser

A sharp and true wheel is essential for fast and accurate grinding of valve seats. A new wheel should always be dressed before using. Likewise, an old wheel should be redressed before starting each job.



The swivel on the wheel dresser base is indexed with 1° graduations from 0° to 90°. The swivel head assembly has locating holes for positive setting every 15°. Set the swivel head to the proper angle. Clean the dresser pilot and put on a couple drops of thin oil. Place the holder (with grinding wheel) on the dresser pilot, adjusting the wheel to the proper height by means of the threaded knurled sleeve at the bottom of the pilot. When dressing large wheels, also wheels of 15° angle, it is necessary to place ½" spacer collar on the dresser pilot above the knurled sleeve. This is done to increase the range of adjustment. Adjust the diamond screw in the plunger so it just touches the face of the grinding wheel. Insert the hexagonal ball of the driver in the top of the wheel holder and start the motor. Holding the Driver in a vertical position proceed to dress the wheel. The Driver must be held down just firm enough on the wheel holder to over-

come the vertical vibrating action of the holder.

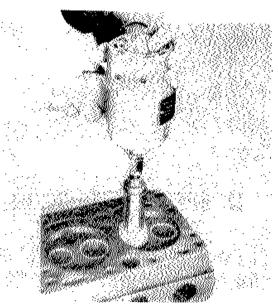
For roughing, pass the diamond across the face of the wheel in one direction only. For smoother finish of the seat, pass the diamond slowly across the face of the wheel in both directions. If the wheel does not clean up on the first setting of the diamond screw, it is necessary to adjust it again and repeat the dressing operation.

Valve Seat Grinding Wheels are furnished with 45° bevel. Other angles are obtained by cutting with the wheel dresser. Several passes across the wheel are necessary of course to change the angle on the wheel. Always keep a few wheels on hand dressed at 15° angle for narrowing seats.

#### Grinding the Seat

Never exert any downward pressure on the Driver when grinding valve seats, regardless of size. Even the weight of the driver is too much except in the case of large wide seats. On small narrow seats, hold most of the weight of the driver off the wheel holder. Inspect the seat frequently to prevent excessive grinding.

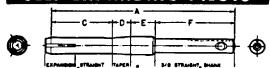
Never stop the motor while wheel is in contact with valve seat as this will produce a rough finish on the seat. Lift motor to raise wheel holder and wheel away from seat, but keep the wheel holder on the pilot until wheel rotation is stopped.



When a wheel is used at too slow a speed, it is sure to break down, and if too fast it will load. Oil and carbon will also cause loading. Dressing the wheel several times may be necessary if the valve seats have not been cleaned first with a wire brush. Time can be saved using two wheel holders, one with a wheel dressed for roughing, and one for finishing. It always pays to keep wheels sharp by frequent dressing.

### VALVE SEAT GRINDER REPAIR PARTS LIST

#### **EXPANDING PILOTS**



The true center of a worn guide is found and as a result the valve seat is reconditioned concentric with the actual operating line of movement of the valve stom. The taper that contacts the upper part of the guide is slight. The pilot anchors deep down in the guide where proper bearing is obtained.

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### HEX BALL TERMINALS

P223 1/4" Hex Ball Terminal for 15/32" Motor Shaft P220 3/4" Hex Ball Terminal for 15/32" Motor Shaft P2105 Spilr Adapter Sleeve (15/32" to 5/16") P2175 Spiir Adapter Sleeve (15/32" to 3/6")



#### CARBON REMOVING WIRE BRUSHES

Must Be Used With P217 Collet Chuck

WB2105 Wire Brush 136" diameter: WB2205 Wire Brush 1336" diameter WB210F Wire Brush 4336" diameter—flared)

#### VALVE SEAT GRINDING WHEELS

remain in service until completely used. Wheel can be dressed 30° top side of P225R, P226R, P221F, P225F, P236F Wheels. Pliluts with suffix letter L should be used.	P225R, P226R, P221F, P225F, P226F Wheels, Pilots with suffix letter L	pletely used. Wheel can be dressed 30" top side of wheel and 45" bottom side.		
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CENERAL	FINISHING	ROUGHING WHEELS	A-DIAM.	GENERAL	FINISHING WHEELS	ROUGHING WHEELS	A.DIAM.
P224	P224F	P224R	7,"	P238	P238F	P238R	1"6"
P225	P225F	P225R	15,71	P239	P239F	P239R	13."
P226	P226F	P226R	ı "	P240	P240F	P240R	1367
P227	P227F		116"	P241	P241F	P241R	171".
P228	P228F	P228R	1."	P242	P242F	P242R	17i". 19a".
P229	P229F		14"	P243	P243F	P243R	2 "
P231	P231F	P231R 1	11."	P245	P245F	P245R	2 '1"
P232	P232F	P232R 1	15."	P247	P247F	P247R	2 '."
P233	P233F	P233R 1	P."	P251	P251F	P251R	וֹנ' 2ֿ
P234	P234F	P234R 1	7°"	P255	P255F	P255R	2 12"
P235	P235F	P235R 1	15"	P259	P259F	P259R	3 "
P236	P236F	P236R 1	11."	P261	P261F	P261R	3 14"
P237	P237F	P237R 1	3,"	P263	P263F	P263 R	319"

#### GRINDING WHEELS FOR STELLITE

No.	A-Diam.	No.	A-Djam.	No	A-Diam.	No.	A Diam.
P2315	1 '4"	P237S	1 '-"	P2435	2 "	P251S	2 '2"
P2335	14"	P2395	1 14"	P2455	2 '•"	P2555	"،" 2
P235S	1 '>"	P2415	1 7."	P2475	2 '-"	P2595	3 "

Wheels have ""-16thd. Wheels have 'n"-16thd. All other

Wheels with "" S.A.E. threads can be used on "s" threaded end with """ S.A.E. threads can be used on the time and of the same by other manufacturers by using a No. P190B Bushing 1"" to """.

Wheels P224, P225,

P226, P227, P228, P229 are designed for small engine service.

#### GENERAL PURPOSE

#### **Grinding Wheels**

WHEELS HAVE 13/16"--13 THREAD

No.	A-Diam.	No.	A-Diam.	No.	A-Diam.	No.	A-Diam.
P236K	1 %"	P241K	1 7."	P247K	2 14"	P259K	3 "
P237K	1 3."	P243K	2 "	P251K	2 '3"	P261K	3 4"
P239K	1 37"	P245K	2 '•"	P255K	2 14"	P263K	3 '4"

#### GRINDING WHEEL HOLDERS



1/2" HEX ORIVE P190 4" long, 1/2" hex socket, 11/16" threaded end P5190 234" long, 1/2" hex socket, 11/16" threaded end

P191 4" long, ½" hex socket, 9/16" threadud end
P196X Ball bearing, 4" long, ½" hex socket, 11/16"
threaded end
P198X Ball bearing, 4" long, ½" hex socket, 9/16"
threaded end
P398 4" long, ½" hex socket, 9/16" threaded
end

## HEX DRIVE

## HEX DRIVE

## P197X Ball bearing, 4" long, ½" hex socket, 11/16" threaded end.

## P199X Ball bearing, 4" long, ½" hex socket, 9/16" threaded end.

## P1990 4" long, ½" hex socket, 11/16" threaded end.

## P1990 2½" long, ½" hex socket, 11/16" threaded end.

## P1991 4" long, ½" hex socket, 11/16" threaded end.

## P1993 4" long, ½" diameter, ½" hex socket, 9/16" threaded end.

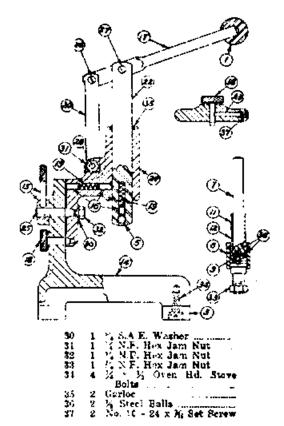
## P1994 4" long, ½" diameter, ½" hex socket, 9/16" threaded end.

#### P372 DIAMOND WHEBL DRESSER

P372 Diamond Wheel Dresser, complete with Diamond Screw



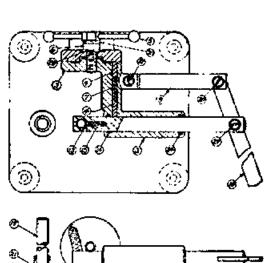
Part	index.	Quan	,
No.		Reg d.	Deter Lytina
K 44 E	1	1	Knob
Pt71P		4	Rubber Pads
P176D	- 5		Diamond Screw
P178	7	:	Pilot
P178N	8		Pilot Adjusting Sleeve
P1785	3 5 7 8 9	ì.	Compression Spring
P179L	- 31 -	1	Thrust Collar - long
P1798	:2	2	Thrust Collar - short
P372B	24	*	Base
P372C	1.8	1	Clamp Nut
P\$72D	16	3	Plugi .
P\$72H	17	1	Handle
P572I	18	ŀ	Index Pin
P372J	1,5		Compression Spring
P3721.	80	1	Link
P372P	#2	1	Plunger
P372K	23	1	Keeper Rod
P872S	24	1	Swivel
P37 <b>2T</b>	25		Taper Stud
P172U	26		Screw
P372V	27		Strew
P372W	28	1	Screw



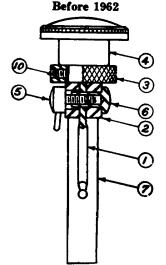
#### P172 DIAMOND WHEEL DRESSER (Replaced January 1, 1448 by P378)

Note—F172 Diamond Wheel Drusser not available as complete unit. Only parts listed below are available.

	le tez		
No	Ne.	Req's	- Door rightess
Pt71	1	1	Dresser Bed
PITIP	2	4	Rubber Pad
P173	8	1	Swivel Head
Pitab	4	Ż	Brase Plug for Swivel Head
P174C	5	1	Lock Sc. for Swivel Head _
PITICD	6	1	Collar for Lock Sc
P1739	7	1	Compression Spring for Swi-
			vel Hend
P174	9	1	Cornecting Link
P175	10	1	Hand.e
P174	12	1	Plunger
P174B	13	1	Brass Plug for Plunger
P174D	14	ī	Diamond Screw
PIT49	16	1	Compression Spring for
			Plunger
P178	17	1	Pilot
P178N	18	1	Pliot Adjusting Sleeve
P1788	19	1	Compression Spring for Pi-
			let
PitsL	21	1	Pliot Thrus, Collar (Long)
P1798	22	1	Pilot Thrust Collar (Short)
P378		_	Pilot Assembly

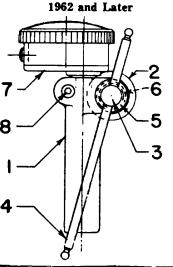


#### P350 VALVE SEAT INDICATOR



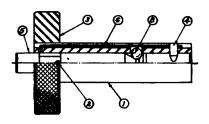
Part No.	Index No.	Description
P350A	1	Swinging Arm
P350C	2	Clamp
P350H	3	Knurled Thumb Collar
P350I	4	Indicator
P350M	5	Locking Serew and Arm
P350N	6	Locking Pin
P350S	7	Column for %" pilots
	10	10 24x%" Hdls. Set Sc.

#### P350 VALVE SEAT INDICATOR



Part No.	Index No.	Description
P350B	1	Column
P350D	Ž	Thumb Nut
P350E	3	Locking Screw
P350F	4	Indicator Set. Arm
P350T	5	Thrust Washer
K510HS24	6	Spring
Dial Ind.	7	Tumico Model E1
5-40x3,	8	Hex Socket Cap Sc.
6-40x216		Rd. Hd. Mach. Screw

#### P61 PILOT WRENCH



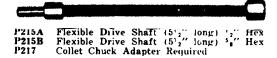
P361	Special		Pilot Wrench			
Part No.	Index No.	Quan. Req'd.	Description			
P61B	1	1	Body			
P61C	2	1	Stop Pin			
P61D	3	1	Disc			
P61L	4	2	Lock Pin			
P61P	5	1	Plunger			
P61S	6	2	Spring			
	8	2	%" Steel Ball			

#### SEAT GRINDER TOOL POX

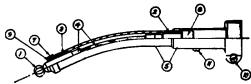
P500B Seat Grinder Box (10" high x 14" wide x 11" deep—wt. 21 lbs.)
P300BC Handle Clamps, only

#### DRIVE ATTACHMENTS FOR

#### P215A FLEXIBLE DRIVE SHAFT



#### P360 ANGLE DRIVE ATTACHMENT

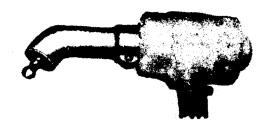


P360 Angle Drive Attach. (12" Hex Drive)
P362 Angle Drive Attach. (3" Hex Drive)

Part No.	Index No.	Description
P360B	1	Hex Ball Shaft (1/2" Hex)
P362B	1	Hex Ball Shaft (3/4" Hex)
P360C	2	Bushing (%" Diameter Shoulder)
P360D	3	Bushing (25" Diameter Shoulder)
P360F	4	Flexible Shaft Assembly
P360H	5	Housing Assembly
P360R	7	Felt Retainer
P360S	8	Hex Socket Shaft (for P360)
P362S		Hex Socket Shaft (for P362)
P360 W	,8 9	Felt Washer (1/4" x 3/4" x 1/4" T.)
	10	14" x 14" U.S.S. Fill. Hd. Cap Screw
	11	10-32 x 1/4" Rd. Hd. Machine Screw
P361		Pilot Wrench (4" long)

#### UTILITY DRIVER

#### P160 GEARED ANGLE DRIVE



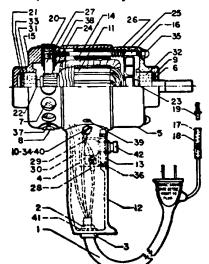
P160 Geared Angle Drive (1 to 1, ½" Hex Drive)
P161 Geared Angle Drive (1½ to 1, ½" Hex Drive)
P162 Geared Angle Drive (1 to 1, ¾" Hex Drive)
P163 Geared Angle Drive (1½ to 1, ¾" Hex Drive)

	THE PART CHAIL
P460C	Bearing Cage (2)
P460E	Hex Socket Shaft
P460G	Gear
P460H	Housing
P460P	Pinion
P460S	Oil Plug
38K D	Bearing (4)
10-24 x3/4	Headless Cup Point Set Screw (4)
1/4 x 3/4 U.S.S.	Filled Head Machine Screw (HB)
10-32x3,	Socket Set Screw Cun Point (2)

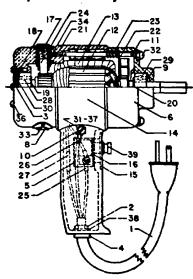
Hex Ball Shaft

P160B

### P322, P422 Utility Electric Driver

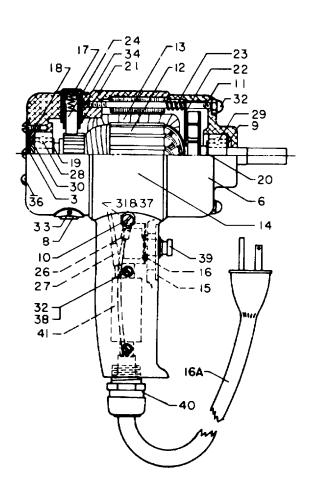


### P422, P522 Utility Electric Driver



Part No.	Index No.	Qual	
A12	1	1	Extn. Cord
A412	2	1	Cord Retainer Wire
P211H	3	1	Grommet
P2111.	1	1	Switch Insulation
P212D	5	1	Front End Shield
P212F	6	1	Felt Washer
J212G	7	2	Filter Screen Ashly.
P212H	ĸ	2	Brush Holder Shield Asbly.
P212W	9	1	Washer
P321	10	1	Special Screw
P422A	11	1	Armature (115 volt only)
P322H	12	1	Handle and Housing
PS22HP	13	Ţ	Switch Plate
P522HW		1	Switch Washer
P322F	11		Field For P322 (Specify 115 V. or 230 V.)
P422F	14	1	Field (Specify 115 V. or 230 V.) (P422 only)
P322R	15	1	Rear End Shield (P322 only)
P422R	15	i	Rear End Shield (P422 only)
P322S	16	ż	Stud (P322 only)
P422S	16	i	Stud (P422 only)
P522GC	17	î	Connector
P522GR	18	i	Rubber Sleeve
P522GS	19	i	Screw Jack
P3949	20	ż	Brush Plug
P5620	21	ĩ	Washer
PS6RS	22	i	Strip Washer
P5688	23	i	Strip Washer
P8545	24	ż	Brush Holder
PKB47	25	ī	Baffle Plate
R2914	26	Ž	Spring
R3838	27	2	Brush and Spring Ashly.
31881	28	2	Terminal
31851	29	Ĭ	Terminal
34070	30	ī	Butt Connector
39KVTD-			
201 KTD-1	31 F8 <b>50.</b> 4	<b>•</b> 0	Ball Brg.
	32	٠,	Ball Brg.
52	13	i	Adjusting Spring
10-32	ũ	i	Hex Nut
10-24	35	ż	Acorn Nuts (N.P.)
8-32x1/	37	4	Rd. Hd. Mach. Sc. (H.B.)
10-24×X	38	4	Hdln. Set Sc.
2x1/2		Ž	St. R4. Hd. Sc. (N.P.)
6-32x3/	39	ī	St. Rd. Hd. Sc. (N.P.)
X. Std.	40	1	Lock Wanher
% S.A.E.	41	1	Washer
26591N	42	1	Momentary Contact Switch

Part No.	Index No.	Quar R-q	I. Description
A127	7	1	('ord and Plug Set (Parallel Blade, 115 V.)
A128	1	1	Cord and Plug Set (Tandem Blade, 230 V.)
1612	2	1	Cord Retainer Wire
A631MB	3	1	Bearing Cover
P211H	1	1	Grommet
P2111.	3	1	Switch Insulation
P212I)	6	1	Front End Shield
1°212H	8	2	Shield Assbly.
P212W	9	1	Washer
P321	16	1	Special Screw
P 1228	11	2	Stud
P422A	12	1	Armature (115 volt only)
P422F	13	1	Field (115 V. or 230 V.) 1/5 H.P
P522AB	12	1	Armature (115 V., 230 V.) 1/3 H.P.
P522FB	13	1	Field (115 V. or 230 V.) 1/3 H.P.
P522AV	12	1	Armature, 115V (P522V)
P522FV	13	1	Field, 115V (P522V)
P522H	14	1	Housing
P522HP	15	1	Switch Plate
P522HW	16	1	Switch Washer
P3949	17	2	Brush Plug
P5420	18	1	Washer
P5683	19	1	Strip Washer
P\$688	20	1	Strip Washer
P8545	21	2	Brush Holder
PK B47	22	1	Baffle Plate
R2944	23	2	Spring
R3838	24	2	Brush & Spring Ass'bly.
31881 31891	25 26	2 1	Terminal Terminal
34070	27	i	Connector
39K VTD	28	ĭ	Ball Brg.
201KTD	29	1	Ball Brg.
5Z 10-32	30 31	1	Adjusting Spring Hex Nut
10-24	32	2	Acorn Nut (N.P.)
	33	ā	Rd. Hd. Mach. Sc. (H.B.)
8-32x1/4 10-24x1/4	34	2	Hdls. Set Sc.
6-32x¾ ¾ Std.	36 37	4	St. Rd. Hd. Sc. (N.P.) Lock Washer
% S.A.E.	37	1	Washer
26591N	29	î	Push On - Push Off Switch



# P522BMIL UTILITY ELECTRIC DRIVER

Part No.	Indea No.	Quan Req.	
A634MB	3	1	Brg. Cover
P211L	5	- 1	Switch Insulation
P212D	6	1	Front End Shield
P212H	8	2	Shield Assembly
P212W	9	1	Washer
P321	10	1	Special Screw
P422S	11	2	Stud
P522BM	12	ī	Armature (115V)
P522FM	13	1	Field (115V)
P522M		i	Data Plate
P522HM	14	i	Housing and End Shield
P522HP	15	1	Switch Plate
P522HW	16	1	Switch Washer
P522W	16A	1	Power Cord
P3949	17	2	Brush Plugs
P5620	18	1	Washer
P5685	ĬŠ	i	Strip Washer
P5688	20	ĩ	Strip Washer
P8545	21	ż	Brush Holder
PKB47	22	ī	Baffle

Part No.	Index No.	Quan. Req.	Description
R2944	23	2	Spring
R3838	24	2	Brush and Spring Assembly
GE4260-	1	1	Grounding Adapter
31891	26	1	Terminal
31070	27	2	Connector
39K VTD			
	28	1	Ball Bearing
201K FD	-FS,50	-	Dan Dearing
	29	1	Ball Bearing
5 <b>Z</b>	30	1	Adjusting Spring
10-32	31	1	Hex Nut. Brass
5-40x1/4	32	2	Round Head Machine Screw (N.P.)
8-32xX	33	4	Round Head Machine Screw (N.P.)
6-32x1/	36	4	S.T. Round Head Screw (N.P.)
No. 10	37		Internal Lock Washer
No. 6	38		Internal Lock Washer
26591N	39	ī	Switch
6502	40	i	
		-	Cord Grip Connector
1640-300	41	1	Filter Can—Elite

#### **ABSTRACT**

REFERENCE: MIL-G-45930(WC) 19 July 1974; PARA. 3,6.1.

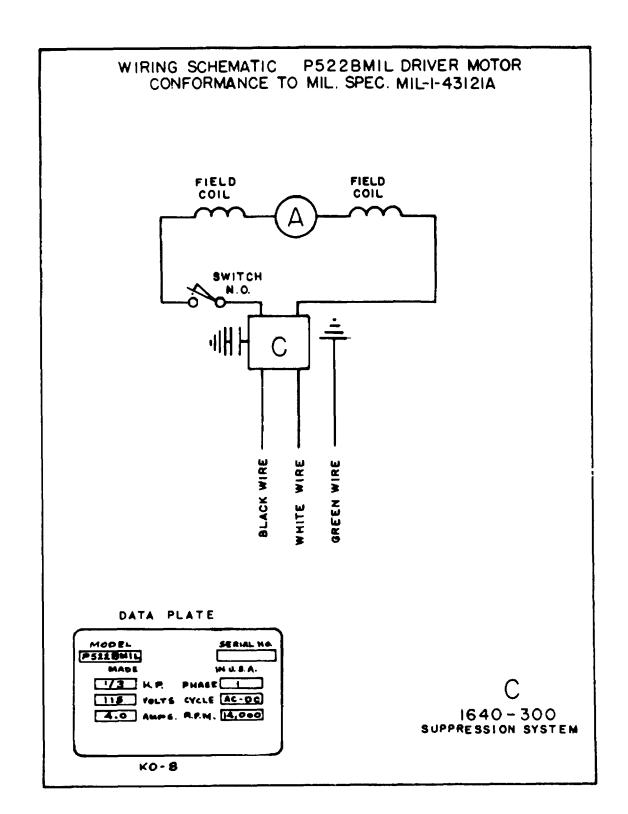
- 3.6.1. <u>DRIVER</u>. The driver shall be a hand-held electric powered rotary tool for driving the grinding wheels.
- 3.6.1.1. <u>SPINDLE DRIVE.</u> The spindle drive shall transmit the power from the motor to the grinding wheels to perform the valve seat grinding requirements as specified below in Table I:

#### TABLE I.

Requirements for both Type I and Type II grinding kits: Valve seat outside diameter, range, in inches, 1-3; Spindle speed, RPM, minimum (no load) 8,000; Motor, Horsepower, minimum 1/3. Rated torque range foot pounds 0.3 - 0.5.

The drive end of the spindle drive shall incorporate provisions for connecting the grinding wheel holder specified in 3.6.3. The connection shall provide a positive drive fitting between the wheel holder and the spindle without slippage, looseness, and detrimental vibration during operation of the driver. The drive spindle for the type I grinding kit shall effect an included angle of 105 to 150 degrees with the center line of the drive spindle and the center line of the armature shaft. If a straight drive unit is furnished, an angle attachment shall be provided. The drive spindle for the type II grinding kit shall be at an angle to accommodate grinding seats as shown in Figure 1.

- 3.6.1.2 <u>HANDLE</u>. The driver shall be fitted with a pistol-grip, planer, D, or straight-type handle affording the operator a full hand grip. The handle shall permit the operator (one man) to position and control the driver during the grinding operation.
- 3.6.1.3 <u>DRIVE MOTOR</u>. The drive motor shall be of the universal type, intermittent duty, in conformance with CC-M-636. The horsepower and the torque produced by the driver spindle shall be as specified in Table 1. Unless otherwise specified (see 6.2.1), the motor shall operate from a nominal power source of 115 volts, 60 Hz, single phase, and 115 volts direct current (dc).
- 3.6.1.4 <u>SWITCH.</u> The motor shall be controlled by a trigger or button type switch of quick break design. Current rating of the switch shall be not less than the full load current rating of the motor. The switch shall not be equipped with a mechanism for locking in the on position. Switches shall conform to the requirements of UL No. 45.
- 3.6.1.5 <u>POWER CORD.</u> The motor shall be furnished with not less than 15 feet of flexible oil resistant, water resistant, three-conductor cord in accordance with UL NO. 73. The ground conductor shall be securely connected to provide a common ground with the exposed parts of the grinder frame. The ground connection or connections shall be made on the inside of the grinder frame. The size of the conductor shall be determined from the full load ampere rating of the motor and shall conform to NFPA Standard NO. 70. The three-wire grounding plug shall be of the cord grip design and be in accordance with style D of W-C-596. A mating three-to-two-wire adapter with a grounding wire shall be furnished for use with a two-wire outlet.
- 3.6.1.6 <u>BEARINGS</u>. Bearings shall be ball or roller type of suitable design, housed to prevent leakage of lubricant and entrance of dirt and dust. The bearings shall be lubricated sealed-for-life type or shall be provided with means for proper lubricant application.



#### LIST OF REPLACEMENT PARTS RECOMMENDED

P300BB. GRINDING KIT, VALVE SEAT, ELECTRIC WITH FUNGUS CONTROL AND RADIO SUPPRESSION IN ACCORDANCE WITH MIL-G-45930(WC)

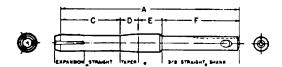
DATED 74 JULY 19, TYPE I

1	P223	Hex Ball Terminal
1	P196X	Ball Bearing Wheel Holder 11/16 " Threaded End
1	P198X	Ball Bearing Wheel Holder 9/16 "Threaded End
1	26591N	Switch for P522BMIL
2	P176D	Diamond Screw
1	P378	Pilot Assembly for P372 Wheel Dresser
1	R3838	Set of (2) Carbon Brush and Spring Assembly

#### NOTE

Grinding Wheels in sizes and grade as per use requirement. These are expendable items and order recommendations can only be based on amount of servicing done by your facility.

#### SELF EXPANDING PILOTS



All advantages of a solid one-piece taper pilot plus the accuracy and rigidity assured by the expansion of the lower end.

The true center of a worn guide is found and as a result the valve seat is reconditioned concentric with the actual operating line of movement of the valve stem.

The taper that contacts the upper part of the guide is slight. The pilot anchors deep down in the guide where proper bearing is obtained.

Part No.	Pilot Size	l A	С	D	E	1
P95S	1/4	47%		- %		3
P95	<b></b> γ	5 %	1%	*		3
P95L	+ - ÿ	6'%,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4
P948		41%	<b>┼╶┷</b> ╩┈	1-2-		3
P96	*		- W			⊢:.
	K	5"22	132	_%_		_3 :
P94L	<b>%</b>	6"%	1 %	×	l	4
P8 <b>3S</b>	X	[4 K	1 %	_%	L	2
P83	_ K.	5 %	13	I 74	L	2 :
P83R	X <sub>4</sub> +.015	[ 5 ½ ]	I 134	1 4		[2 <sup>;</sup>
PSIRL	K+.015	6 %	174	·	Х	3
PSIL	_ <u> </u>	6 1/4	114	[ ¾ ]	<u> </u>	3 :
P645	11/20	1 13	11/4	1 -× -		2
P84	11/32	5 1/4	114	1 -4-		T 2 :
P84M	136	1 4 1/3 "	11%	_%	·	۲ı,
P84L	"49	6 %	1.4	1 4		3
P84R	%+.015	5 %	ti i	1 4		2
P84RL	%+.015	6 12	12			3
P85S	34	133-	1 1 2	t %		- 2
985F	370	5 1	2	∱ ? ·		- ŝ
P85						F 3
	- 4	L-:-::		[ 'Y ]	·	
P85R	3/4.015	5 %	2	1 4_	ļ., .,	l. 3
ASRL	'4+.015	7	2		4	[ 3 <sup>1</sup>
85L	- \$ <u></u>	7	2		- 4	3 3
P97R	.397	5 %	1 71%			3.5
797	_ <sub>''</sub> ',	6	] 2			3 )
297M		714	2'		٧,	3 3
P97L	1 14.	R 1/4	214	I 4	1 1/4	3 :
P863	γ.	5 1/4	11.	%		
P86	74.	F 6 1/2	21,	T 4 1		3
P86M	- 4	75.	, .	1. 5.	1/4	3,
96 R M	3,+.015	72.	2.,		<del>i</del>	3 9
P86L	3,	- A 1, -	-2:-	t ;   · ·	13	3 9
94M		7.	4 ' -	<b>├</b> ,*}	<u>,</u>	3 ,
94 M		61/2	2',	<del> :: </del>		3
287	<u> </u>	-: -		<u> </u>		-3,
		ł 👬	-	<del> </del> ;	1 %	
PRTL			₽ I.1 -			3"
*87M		7.4	,			3 '
93	7/2	6 1/4	2 %	T _%		3 3
PeA	X	6 1/4	2 1/5	- V		[_3.
PRRME	<u> </u>	$L^{ii}$	2',	1	. Y.	_ 3 î
PRAL	4	, ×	21,	L '. ]	1	3,
72	1%,	5 1/4	1 1	[ 'i' ]	14	3
P89		6 1/4	2 1,	1 14 11		3
P98	11/4	6 %	9 1/	1 1/4 1		3
798L	114	87.	2,		1 3	3 1
P99	1/4	62 "	1 21:	1 1		3 %
PIL	11/2	4 3/	; »			3 5
82168	51/MM		т.			2 '
8216	51,MM	118,	1 1/2	7,		3
8234	6MM	17	110	7/4		2 ,
8234S	63KM	4 %	**			
8255	6½MM	1%	} - ? <del>*</del> - ·	∤ <i>?</i> }I		
			11/2	"—		2 !
8275	7 M M	424	LV,			2 ?
8295	71/2 MM	5 %	1772			3
8315	8MM	5 %,	174	[ ]4□[		
°8334	814MM	_5 %	1774.	1/4		3
98354	9 M M	5 %	מייו [	74		3
8374	91;MM	5 1/4	-2 -2	74-1		3
78393	10MM	5 1/2	2	74-1		1
28472	12MM	6 12	2 1/4	ે ચ		3 )
		4.74		1 - 1		3 }

P90 .850" Special Pilot for V-8 60.

P91 1-1/32"x1" Special Pilot for V-8 for use when lifters are removed from engine.

#### VALVE SEAT GRINDING WHEELS





Wheels shown on the right with their short hubs will

P224, P225, P226, P224R, P225R, P226R, P224F, P225F, P226F Wheels. Pilots with suffix letter L should be used.

remain in service until com-pletely used. Wheel can be dressed 30° top side of wheel and 45° bottom side, 1 wheel serving 2 purposes.

GENERAL PURPOSE	FINISHING	ROUCHING WHEELS A-DIAM	GENERAL	FINISHING	ROUGHING	A-DIAM.
P224	P224F	P224R %"	P238	P238F	P238R	1ነሄ."
P225	P225F	P225R '%'	P239	P239F	P239R	1 %"
P226	P226F	P226R 1 "	P240	P240F	P240R	11%"
P227	P227F	P227R 1 %"	P241	P241F	P241R	1%"
P228	P228F	P228R 1 '#"	P242	P242F	P242R	ľk"
P229	P229F	P229R 1 %"	P243	P243F	P243R	2 "
P231	P231F	P231R 1 14"	P245	P245F	P245R	2 %"
P232	P232F	P232R 1 %"	P247	P247F	P247R	2 1/4"
P233	P233F	P233R 1 1."	P251	P251F	P251R	2 '4"
P234	P234F	P234R 1 %"	P255	P255F	P255R	2 %"
P235	P235F	P235R 1'1"	P259	7259F	P259R	3 "
P236	P236F	P236R 1 '-"	P261	P261F	P261R	3 ¼"
P237	P237F	P237R 1 %"	P263	P263F	P263R	3 'ሃ"

#### GRINDING WHEELS FOR STELLITE

No.	A-Diam.	Na.	A Diam.	No	A-Diam.	Nα.	A-Dia	₩.
P2355	1 '7"	P2415	1 'a''	P2475	2 %"	P2595	3 "	
P2375	13."	P2435	2 "	P2515	2 1/2"			
P239S	124"	P245S	2 '4"	P.255S	2 %"			

Wheel shave 'w"-16thd All other Wheels have '%"-16thd.

Wheels with """ S.A.E. threads can be used on "" threaded end

by using a No. P1908 Bushing (%" to %"). Wheels P224, P225,

P226, P227, P228, P229 are designed for small engine service.

#### GENERAL PURPOSE

#### Grinding Wheels

WHEELS HAVE 13/16"-13 THREAD

No.	A-Diam.	No.	A-Diam	No.	A-Diam.	No.	A-Diam.
P236K	1 %"	P241K	1 %"	P247K	2 %"	P259K	3 "
P237K	1.8"	P243K	2 "	P251K	2 %"	P261K	3 4"
P239K	1 %"	P245K	2 %"	P255K	2 %"	P263K	3 %"

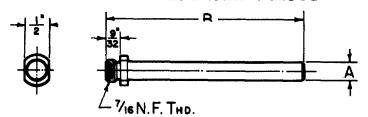
### GRINDING WHEEL HOLDERS



P190 4" long, ½" hex ORIVE
P190 4" long, ½" hex socket, 11/16" threaded end
P5190 234" long, ½" hex socket, 11/16" threaded end
i.For hard to reach seats)
P191 4" long, ½" hex socket, 9/16" threaded end
P198X Ball bearing, 4" long, ½" hex socket, 11/16"
threaded end
P198X Ball bearing, 4" long, ½" hex socket, 9 16"
threaded end
P398 4" long, ½" dia., ½" hex socket, 9/16" threaded
end

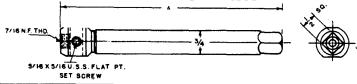
54" HEX DRIVE
P197X Ball bearing, 4" long, 35" hex socket, 11/16" threaded end.
P199X Ball bearing, 4" long, 35" hex socket, 11/16" threaded end.
P390 4" long, 35" hex socket, 11/16" threaded end.
P390 234" long, 35" hex socket, 11/16" threaded end.
P391 4" long, 35" hex socket, 11/16" threaded end.
P399 4" long, 35" diameter, 35" hex socket, 9/16" threaded end.

#### RESEATER PILOTS



	Size A	Decimal Equiv.	Length B		Size A	Decimal Equiv.	Length B
R208M14	6MM	.2362	4 .	R212P15	3/4+.015	.3900	4
R208	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	.250	. 4	R213M12	10MM	.3937	4
R208S	X	.250	23/4	R213M9	1/2009	.3975	4
R208P6	6.5MM		1	R213M2	1 <del>%</del> .002	.40425	4
	1	.2559	4	R212P30	½+.030	.405	4
R209M5	7MM	.2756	4	R213	136	.40625	4
R209	1 %2	.28125	4	R214M2	%002	.4355	5
R209S	1 1/2	.28125	23/4	R214M1	%001	.4365	5
R209P15	7.5MM	.2953	4	R214	<i>1</i> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.4375	5
R210M2	¥ <sub>6</sub> —.002 ·		4	R214P1	%+.001	.4385	5 5 6 5 5 5 5
R210M1	⅓₀001	.3115	4	R214P2	¼+.002	.4395	5
R210	1 %	.3125	4	R214P15	%+.0.15	.4525	6
R210P1	₹6+.001	.3135	4	R215	13/2	.46875	5
R210F2	₩+.002	.3145	4	R215P3	12M M	.4724	5
R210P3	8MM	.315	4	R216M2	1/2002	.498	5
R210P4	₹₀+.004	.3165	4	R216M1	1/2001	.499	5
R210P15	%+.015	.3275	4	R216	1/2	.500	5 5
R210P30	<b>1 %+.030</b>	.342	4	R216P1	1/2+.001	.501	5
R211M9	8.5MM	.3347	4	R216P2	$\frac{1}{2} + .002$	.502	5 5
R211M3	11/32003	.34075	4	R217M1	11/32001	.53025	
R211M2	11/32002	.34175	4	R217	17/32	.53125	5
R211M1	11/32001	.34275	4	R217P1	1/32+.001	.53225	5
R211	11/32	.34375	4	R218	%	.5625	5
R211P1	13/2+.001	.34475	4	R218P1	%+.001	.5635	5
R211P2	11/32+.002	.34575	4	R218P2	%+.002	.5645	5
R211P3	11/32+.003	.347	4	R219	1%2	.59375	5 5
R211P10	9MM	.3543	4	R220	3/8	.6250	5
R211P15	11/2+.015	.3577	4	R220P1	<b>%+.001</b>	.626	5
R211P30	1/32+.030	.372	4	R222	1 1/4	.6875	5
R212M2	$\frac{1}{8}$ 002	.373	4	R222P1	ነ%+.001	.6885	5
R212M1	9.5MM	.3740	4	R222P2	14+.002	.6895	5 5 5 5 5
R212	3/8	.3750	4	R224	1 %	.7500	
R212P1	<b>%+.001</b>	.376	4	R226	13%	.8125	5
R212P2	$\frac{3}{8} + .002$	.377	4	R227P6	2%2+.006	.850	21/6
R212P5	$\frac{1}{2}$ + .005	.380	4	R233	11/32	1.03125	23/4

#### RESEATER SHANKS



Reseater Shank Part No.	R1	R2	R3
Reseater Shank Size A	41/8	63/4	8¾

#### OVERSIZE RESEATER SHANKS

The standard R1, R2 and R3 reseater shanks are available in .005", .010", .015", .020", .030" and .045" oversizes. All Reseater Sets are furnished with R2 shank as standard. The R1 (short) shank and R3 (long) shank, designed for special motor applications are extra equipment items. See right hand column for information on the R712 special reseater shank. Valve seat rings are now available in decimal oversizes in addition to the standard fractional sizes. To install decimal oversize rings, special reseater shanks are required, but not special cutters. When a .010" oversize Special Reseater Shank is used with any standard fractional size cutter, a .010" larger recess diameter will be cut. Each oversize shank is stamped indicating the decimal oversize recess it will cut.

All oversize rings are identified by their ring number. The amount of ring decimal oversize is indicated by suffix number added to standard part number. That is, the L9+10 or L9R10 ring numbers indicate .010" larger O.D. than L9 and L9R standard rings respectively.

All rings provide proper press fit, and where decimal figures are used for O.D. dimensions, decimal figure indicates press fit allowance. The Engine Specification Data Book provides complete information for specific valve seat service.

for specific valve seat service.

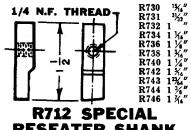
#### RESEATER CUTTERS

Becasses are accurately cut. There are no adjustments to be made; simply insert cutter in Reseater Shank, press firmly against shoulder of the cutter and lock with set screw. Each K-O cutter is made to accommodate two or more ring sizes.

	Ring	Dia. :		Ring	Dia.
Cutter No.	Side	Side .	Cutter No.	0 Side	K Side
*R98	'X''	1 "	R110	2%,"	21/2"
*R99	1%"	11/4"	R111 .	2%"	25%
R100 .	1%"	11/4"		21%"	23/4"
	1%"	13%"	R113 .	217/6"	274"
R102	1%"	11/2"	R114	21%"	3 "
	1%"	15/2"		3½"	31/8"
R104 .	11%"	1%"		3¾″	31/4"
R105 .	11%,"	11/8"	R117	3%,"	3%"
	11%/"	2 "	R118	31/4"	31/2"
R107 .	2×6"	21/4"			
R108 .	2%"	21/4"	R119	3% <b>,</b> "	3%"
	2∜,″	23/8"	R120	3¹¼″	3¾"
NOTICE	. D: 1	2 and	D3 Reseat	er Sheni	

NOTICE: R1, R2 and R3 Reseater Shanks are available for cutting .005, .010, .015, .020, .036, .045 oversize recess, utilizing standard cutters. \*R98 and R99 cutters are now obsolete but are still available for those still using R0 shank and R67S feed screw. The R712 special reseater shank and special cutters R736, R732, R734, R736 are used to cut the recesses formerly cut with the R98 and R99 cutters.

#### SPECIAL CUTTERS



### RESEATER SHANK



Special cutters and R712 Special Reseater Shank are designed to service engines where valve guide is too near top of seat and interferes with cutting recess with standard unit. This includes, in addition to foreign cars, small stationary engines and lawn mower engines.



Part No.	R15H	R16H	R17H	R18H	R19H
Size A	.885	.990	1.115	1.240	1.365
5/1	6 X 5/16 U			14-3-4	4
	-\	T SCREV		',	
,		7	1	7	
- 6		11	1		
- 11		<del>,                                    </del>	3/4		
/		//	1		

Part No.	Size A	Part No.	Size A	
R20H	1.490	R26H	2.240	
R21H	1.615	R27H	2.365	
R22H	1.740	R28H	2.490	
R23H	1.865	R29H	2.740	
		R30H	2.990	
R24H	1.990	R31H	3.240	
R25H	2.115	R32H	3.490	

### INTRODUCTION

This Data Book, in addition to giving specifications on Valve Seat Insert Rings, is intended to supply helpful information for use with reseater, seat grinder and valve refacer tools.

Engine manufacturers are listed alphabetically and engines are identified by: Year of Manufacture; Model (chassis or engine) Number; Number of Cylinders and Bore and Stroke. Other engine identification, such as engine model number, make, type of fuel, or horsepower, frequently appears just to the left of the cylinder column.

Whenever recommendations are identical, models are grouped together to avoid duplication.

Engines for trucks not listed in the Data Book can be found under the engine manufacturer's name.

Truck manufacturers who make their own engines are listed under their own name.

Footnotes are listed at the bottom of each page. If an asterisk (\*) follows a ring number, that ring is a replacement for factory installed insert. A ring number without the asterisk is an oversize ring for factory installed insert or the recommended ring if no insert has been installed at the factory. Special footnotes pertaining only to certain manufacturers are listed with the manufacturer's listing. If exhaust pilot size is different than the intake, the exhaust size will be listed after the model listing.

Special valve seat insert rings made to and Lee-Lite material.

must use Chromalloy

Rings.

specifications are available in Cast Iron, Lee-Alloy, Chromalloy and Lee-Lite material.

Engines using propane, butane or natural gas

The Valve Guide Reaming Tools are designed to service late model engines which have valve guides cast as part of the cylinder head. These tools can be used to install oversize stem valves or replaceable valve guides. Guide application data is listed on pages 25 and 26. Send for Catalog Sheet VGR-2 for complete information.

Altis-Chalmers 2, 3 Auto Car 3 Buda 3	Edsel 7 Fairbanks-Morse - 7 Ferguson 7	Lincoln12 Lycoming12 Mack12	Studebaker 16 Volkswagen 16 Waukesha 16
Buick 3 Cadillac 3 Case 4	Ford 8 GMC 9 Hall-Scott 9	Massey-Ferguson 13 Mercury 13 MplsMoline 13	White16 SMALL ENGINES
Caterpillar 4 Chevrolet 4, 5 Chrysler 5	Hercules 9, 10 Hudson 10	Nash14 Oldsmobile14	Briggs & Stratton 17 Clinton17
Cockshuff & Co-op 5 Continental 6 Cummins 6	International - 10, 11 John Deers 11 Kaiser-Frazer 11	Oliver 14, 15 Packard 15 Ptymouth 15	Continental 17 Cushman 17 Kehler 17
De Sete 6 Dodge 7	Kaiser-Jeep 12 Leftoi 12	Pontiac15 Rec15	Lauson 17 Wisconsin 17

#### ALLIS CHALMERS TRACTORS AND POWER UNITS

Year   Model   Mode   Eng.   Eng.   Eng.   Eng.   Sp.	Size  Six	180 22 22 18 18D 22 8 13C 8	22 22 138 98R 12E 20U 98R	L18D L22 L18 L13CE	Alloy Ezh. L68P L22 L138 L9R10 L8ATH* L8ATH* L8ATH* L8ATH* L16D]15 L12E L20U L68P L9R10	Chromati Eak.  99810  SATH  SATH  SATH  SATH  SATH	Z9R10 Z9R10 ZBATH ZBATH ZBATH ZBATH ZBATH Z16DJ15* Z12E Z2OU Z9x10	Int. R103 R109 R109 R107 R105	Eah.	45 45 45 30 45 45 45	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P236 P251 P251 P245 P240 P245 P247	P234 P251 P251 P251 P241 P239 P237 P237 P237 P237 P245 P239 P245 P234 P239	Pilot No P87 P87 P85 P85 P84 P84 P84 P84 P84 P85 P85
1998-60   1, 18, 1915, 18125, C. CA, RC, R Power Unit, TL-B	************************	88 22 22 18 18D 22 8 13C 8	22 22 138 988 12E 20U 988	L180 L22 L19 L13CE	L68P L22 L22 L138 L9R10 L8ATH* L8ATH* L8ATH L8ATH L8ATH* L160J15 L12E L20U L68P	PRIO JEATH JEATH JEATH JEATH JEATH	Z9R10 ZBATH ZBATH Z90SH ZBATH ZBATH Z16DJ15 Z12E Z20U	R103 R109 R109 R107 R105	R102 R109 R109 R105 R103 R103 R103 R104 R104 R107 R102	45 45 45 30 45 45 45	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P236 P251 P251 P245 P240 P245 P247 P235	P234 P251 P251 P241 P239 P237 P237 P237 P237 P245 P245 P234 P234 P239	P84 P87 P85 P85 P84 P84 P84 P84 P84 P85 P85 P85
1990-42   25-40 (E),   Menarch 35   KI, 54 Patrel, K, WK   E,K   4   5 Mis5     1991-54   E, E66; 263   L, 190, 1844,   Menarch 50, U   E,K.L   4, 6 5 Mis5     1994-59   U, M, U, UC, WM, 42 Patrel, Ud0PU, U318   UM   4   4 Mis5     1994-50   HD5, HD58, HD5C, Diesel Tracklayers   CMC 2-71   2   4 Mis5     1994-50   BD3, HD7, HD7W, Diesel Tracklayers   CMC 2-71   3   4 Mis5     1994-50   BD3, HD7, HD10, HD194, HD15, HD19-4   CMC71   6   4 Mis5     1994-50   BD3, HD7, HD10, HD194, HD15, HD19-4   CMC71   6   4 Mis5     1994-50   HD9, HD10, HD194, HD15, HD19-4   CMC71   6   4 Mis5     1994-50   HD9, HD10, HD194, HD15, HD19-4   CMC71   6   4 Mis5     1994-50   HD14, HD15, HD19, HD19-4   Diresel Tracklayers   CMC 6-71   4   4 Mis5     1995-75   HD20   CMC6110   6   5 Mis5     1995-75   HD-16A, HD-16AC, HD-21AC   6   5 Mis5     1995-75   HD-16A, HD-16AC, HD-21AC   6   3 Mis48     1995-75   D17, D17LPC, C226   Ind.   4   Mis5     1995-89   HD64, HD118   4   6   Mis5     1995-99   HD16, HD21   (K Exheust, P86 Pleer)   6   5 Mis6     1995-75   190C (C2500 3% x 41 1900 (D2800), 190XT Diresel (D2800)   6   3 Mis48     1995-75   190XT Cast and LP   3 Mis48     1995-75   190XT Cast and LP   3 Mis6   3 Mis48     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   3 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6   4 Mis6     1995-75   190XT Cast and LP   3 Mis6	************	22 22 18 18D 22 8 13C 8	12E 20U 98R	L122 L132 L13CE L13CE	L22 L72 L138 L9R10 L8ATH* L8ATH* L8ATH L8ATH L8ATH* L15DJ15 L12E L2OU L68P	JEATH JEATH JOSH JEATH JEATH JEATH	ZBATH ZBATH Z90SH* ZBATH ZBATH Z16DJ15* Z12E Z20U	R107 R107 R107 R105	R109 R109 R103 R103 R103 R103 R104 R107 R107	45 45 30 45 45 45	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P251 P251 P245 P240 P240 P245 P247 P235	P251 P251 P241 P239 P237 P237 P237 P237 P245 P239 P245 P234 P239	P87 P87 P85 P85 P84 P84 P84 P84 P85 P85 P85 P86 F86
1921-54   E. E60, E563, L. L. L90, L844, Monarch SD, U   E.K.L.   4.6   5\text{Va65}, 1936-54   IU, M, U, UC, WM, 42 Patral, U40PU, U318   UM   4   4\text{Va55}, 1934-60   WC, WD, WF, WZS, WZ01, WC Patral, WD05   W   4   4\text{Va55}, 1934-60   WC, WD, WF, WZS, WZ01, WC Patral, WD05   W   4   4\text{Va55}, 1934-60   MC, WD, WF, WZS, WZ01, WC Patral, WD05   W   4   4\text{Va55}, 1934-60   MC, E71   2   4\text{Va55}, 1934-60   MD3, HD7, HD7W, Dissel Tracklayers   GMC 2-71   3   4\text{Va55}, 1934-50   HD5, HD7, HD10, HD19H, HD15, HD19-4   GMC 4-71   4   4\text{Va55}, 1934-50   HD14, HD15, HD19H, HD15, HD19-4   GMC 4-71   4   4\text{Va55}, 1934-50   HD14, HD15, HD19H, HD19-4   Dissel Tracklayers   GMC 4-71   6   4\text{Va55}, 1935-57   HD-6, HD-111 (6 cyl.) 11,000   GMC 6-11   6   6   5\text{Va55}, 1955-75   HD-6, HD-111 (6 cyl.) 11,000   GMC 6-11   6   4\text{Va55}, 1957-75   D17, D14, HD-16AC, HD-21AC   6   5\text{Va66}, 1957-75   D17, D14, HD-16AC, HD-21AC   6   5\text{Va66}, 1957-75   D17, D17, LPG, G226   Ind.   1957-75   D17, D17, LPG, G226   Ind.   1957-75   D17, D17, LPG, G226   Ind.   1958-69   HD16, HD21 (& Eshaest, P86 Plot?)   6   5\text{Va65}, 1959-75   C139 (3\text{Va35}), C149   1957-75   C139 (3\text{Va35}), C149   1957-75   1907 (G2500 3\text{Va4} + 1   1900 (D2600), 190XT Dissel (D2900)   6   3\text{Va44}, 1955-75   190XT Cas and LP   G2100   6   3\text{Va44}, 1955-75   190XT Cas and LP   G2100   6   3\text{Va45}, 1955-75   190XT Cas and LP   G2100   6   3\text{Va45}, 1955-75   190XT Cas and LP   G2100   6   3\text{Va45}, 1955-75   190XT Cas and LP   G2100   190XT Dissel (D2900)   6   3\text{Va45}, 1955-75   190XT Cas and LP   G2100   190XT Dissel (D2900)   6   3\text{Va45}, 1955-75   190XT Cas and LP   G2100   190XT Dissel (D2900)   6   3\text{Va45}, 1955-75   190XT Cas and LP   G2100   190XT Dissel (D2900)   6   4\text{Va55}, 190XT Cas and LP   G2100   190XT Dissel (D2900)   6   4\text{Va55}, 190XT Cas and LP   G2100   190XT Dissel (D2900)   6   4\text{Va55}, 190XT Cas and LP   G2100   190XT	*************	18D 22 8 13C 8	12E 20U 98R	L122 L18 L13CE L18D L22 L3 L13C	L22 L138 L9R10 L8ATH* L8ATH* L9BSH* L8ATH* L16DJ15 L12E L20U L6BP	JEATH JEATH JOSH JEATH JEATH JEATH	ZBATH ZBATH Z90SH* ZBATH ZBATH Z16DJ15* Z12E Z20U	R109 R107 R105 R107 R108 R102 R104	R109 R103 R103 R103 R103 R103 R104 R107 R107	45 30 45 45 45 45	45 30 45 45 45 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P251 P245 P240 P240 P245 P247 P235	P251 P241 P239 P237 P237 P237 P237 P245 P239 P245 P234 P239	P87 P85 P85 P84 P84 P84 P84 P85 P85 P85 P85
1934-50 WC, WD, WF, WZS, WZ01, WC Patrel, WD95 W 4 41x5 1934-60 WC, WD, WF, WZS, WZ01, WC Patrel, WD95 W 4 4x4 1934-60 WC, WD, WF, WZS, WZ01, WC Patrel, WD95 W 4 4x4 1946-50 BD3, HD5, HD5B, BD5C, Dissel Tracklayers CMC 2-71 2 4/xx5 1946-50 BD3, HD7, HD7W, Dissel Tracklayers CMC 3-71 3 4/x5 1956-55 HD5, HD7, HD10, HD19H, HD15, HD19-4 CMC71 4 4/xx5 1956-50 HD9, HD10, HD19W, Dissel Tracklayers CMC 6-71 6 4/xx5 1955-57 HD-6, HD-11 (6 cyl.) 11,000 CMC6110 6 5x5.6 1956-75 HD-6, HD-11 (6 cyl.) 11,000 (6 5x6.6 1955-75 HD-6, HD-11 (6 cyl.) 11,000 (7 6x6.6) HD-11 (7 6 5x6.6) HD-11 (7 6 cyl.) 11,000 (7 6x6.6) HD-11 (8 cyl.) 11,000 (7 6 5x6.6) HD-15, HD-16A, HD-16A, CHD-21AC (7 6 5x6.6) HD-16A, HD-16A, CHD-21AC (7 6 5x6.6) HD-15, HD-16A, HD-16A, CHD-21AC (7 6 5x6.6) HD-15, HD-16A, HD-16A, CHD-21AC (7 6 5x6.6) HD-15, HD-16A, HD-16A, HD-16A, CHD-21AC (7 6 5x6.6) HD-15, HD-16A, HD	***********	18D 22 8 13C 8	138 98R 12E 20U 98R	LIBD LIBD LIZ LIB LIBC LIBC LIB	L138 L9R10 LSATH* LSATH* LSATH LSATH LEATH* L16DJ15 L12E L20U L68P	JEATH JEATH JOSH JEATH JEATH JEATH	ZBATH ZBATH Z90SH* ZBATH ZBATH Z16DJ15* Z12E Z20U	R107 R105 R107 R108 R102 R104	R103 R103 R103 R103 R103 R104 R107 R107	30 45 45 45 45	30 45 45 45 45 30 45 45 45 45 45 45	P245 P240 P245 P247 P235	P241 P239 P237 P237 P237 P237 P237 P245 P239 P245 P234 P239	P85 P85 P84 P84 P84 P85 P85 P85 P85
1934-60 WC, WD, WF, W2S, W201, WC Patrel, WD45 W 4 4x5 1946-50 HD58, HD58, HD5C, Dissol Tracklayers CMC 2-71 3 4x5 1951-55 HD5, HD7, HD104, HD194, HD15, HD19-4 CMC71 6 4x5 1951-55 HD5, HD7, HD104, HD194, HD15, HD19-4 CMC71 6 4x5 1946-50 HD19, HD10, HD194, HD15, HD19-4 CMC71 6 4x5 1954-50 HD19, HD10, HD194, HD15, HD19-4 CMC 4-71 4 4x5 1956-57 HD.6, HD-11 (6 cyl.) 11,000 CMC6110 6 5x5.6 1956-71 HD-16A, HD-16AC, HD-21AC 5 5x68 1957-75 D10, D12, D14 (33x334), D15, H3, G149, G138, 160 Ind. 4 3x334 1957-64 D17D Dissol, DA262 6 3xx44 1957-64 D17D Dissol, DA262 6 3xx44 1958-69 HD16, HD21 (6 Exhaust, P86 Plot) 6 5x66; 31x48 1958-69 HD16, HD21 (6 Exhaust, P86 Plot) 6 5x66; 31x48 1958-75 T033, C230 (6 cyl.) 4 3x334 1955-75 1900 (C2500 33x x41 1900 (D2800), 1900 Dissol (D2800) 6 3xx49 1955-75 1900 (C2500 33x x41 1900 (D2800), 1900 Dissol (D2800) 6 3xx49 1955-75 1900 (C2500 33x x41 1900 (D2800), 1900 Dissol (D2800) 6 3xx49 1955-75 1900 C30 and LP C300 D12800 1900 D1300 D	*******	18D 22 8 13C 8	98R	L18D L22 L3 L13C L8	LSR10 LSATH* LSATH* LSATH* LSATH* LSATH* LT6DJ15 L12E L20U L68P	JEATH JEATH JOSH JEATH JEATH JEATH	ZBATH ZBATH Z90SH* ZBATH ZBATH Z16DJ15* Z12E Z20U	R105 R107 R108 R102 R104	R103 R103 R103 R103 R104 R107 R107	45 45 45	45 45 45 45 30 45 45 30 45 45 45 45 45	P240 P245 P247 P235	P239 P237 P237 P239 P237 P245 P245 P245 P234 P239	PRS PRA PRA PRA PRS PRS PRS PRS PRS PRS
1946-50 BD3, HD5B, HD5C, Dissel Tracklayers   CMC 2-71   2 4%s5   1946-50 BD3, HD7, HD7W, Dissel Tracklayers   GMC 3-71   3 4%s5   1951-55 HD5, HD7, HD10, HD194, HD15, HD19-4 GMC71   6 4%s5   1951-55 HD5, HD7, HD10, HD194, HD15, HD19-4 GMC4-71   4 4%s5   1952-55 HD20   CMC91   6 5%s6   6	*********	18D 22 8 13C	12E 20U 98R	L18D L22 L8 L13C L8	LEATH* LEATH* LEATH* LEATH* LEATH* L15DJ15 L12E L20U L6BP	JEATH JEATH JOSH JEATH JEATH JEATH	ZBATH ZBATH Z90SH* ZBATH ZBATH Z16DJ15* Z12E Z20U	R107 R108 R102 R104	R103 R103 R103 R103 R104 R107 R107	45 45 45	45 45 30 45 45 30 45 45 45	P245 P247 P235	P237 P237 P239 P237 P237 P245 P239 P245 P234 P239	P84 P84 P84 P84 P85 P85 P85 P86 F84
1946-90   BD3, MD7, MD7W, Dissel Trackleyers   GMC 3-71   3   44x5     1994-50   HD9, HD10, HD10W, Dissel Trackleyers   GMC 4-71   4   45x5     1994-50   HD9, HD10, HD10W, Dissel Trackleyers   GMC 4-71   4   45x5     1994-50   HD14, HD15, HD19, HD19-4 Dissel Trackleyers   GMC 6-71   6   45x5     1955-57   HD-6, HD-11 (6 cyl.) 11,000   4   46x5     1955-75   HD-6, HD-11 (6 cyl.) 11,000   4   46x5     1955-75   HD-16A, HB-16AC, HD-21AC   6   55x6     1955-75   HD-16A, HB-16AC, HD-21AC   6   55x6     1957-75   HD-16A, HB-16AC, HD-21AC   6   55x6     1957-75   HD-16A, HB-16AC, HD-21AC   6   55x6     1957-75   D17, D17LPC, G226   1nd.   4   4x64     1957-67   D17, D17LPC, G226   1nd.   4   4x64     1957-67   D19, G282   6   35x64     1958-69   HD68, HD118   46   45x6     1958-69   HD68, HD118   46   45x6     1958-75   HD68, HD21 (K Eshaust, P86 PNet)   6   55x65     1957-67   G139 (33x33), C430 (6 cyl.)     1965-75   190XT Cas and LP   6   34x44     1965-75   190XT Cas and LP   6   34x45     1965-75	******	18D 22 8 13C	12E 20U 9BR	L18D L22 L8 L13C L8	LSATH* LSBSH* LSATH* LSATH* L160)15 L12E L20U L68P	JEATH J985H JEATH JEATH	ZBATH Z90SH' ZBATH ZBATH Z16DJ15' Z12E Z20U	R107 R108 R102 R104	R103 R103 R103 R104 R107 R107	45 45	45 30 45 45 30 45 45 45	P247 P235	P237 P239 P237 P237 P245 P239 P245 P234 P239	784 784 784 785 785 786 784
1951-55   IDS, HD7, HD10, HD19H, HD15, HD19-4   CMC71   6 41:s5   ID96-50   ID99, HD10, HD10W, Dissel Trackleyers   CMC 4-71   6 43:s5   ID96-50   ID99, HD10, HD10W, Dissel Trackleyers   CMC 4-71   6 43:s5   ID95-55   ID20   CMC6110   6 5:s5.6   CMC6110   6 5:s6.6   CMC6110	*****	18D 22 8 13C	12E 20U 9BR	L18D L22 L8 L13C L8	L985H' L8ATH L8ATH' L160J15 L12E L20U L68P	JSBSH JSATH JSATH	Z98SH* Z8ATH Z8ATH Z16DJ15* Z12E Z20U	R107 R108 R102 R104	R103 R103 R104 R107 R102	45 45	30 45 45 30 45 45 45	P247 P235	P239 P237 P237 P245 P239 P245 P234 P239	784 P84 P85 P85 P85 786 F84
1946-50   109, HD10, HD10W, Dissel Trackleyers   CMC 4-71   4 4x5     1954-50   HD14, HD15, HD19, HD19-4 Dissel Trackleyers   CMC 6-71   6 4x5     1952-55   HD20	*****	18D 22 8 13C	12E 20U 9BR	L18D L22 L8 L13C L8	LSATH LEATH <sup>1</sup> L16DJ15 L12E L20U L6BP	JEATH JEATH	ZBATH ZBATH Z16DJ15° Z12E Z20U	R107 R108 R102 R104	R103 R104 R107 R102	45 45	45 45 30 45 45 45	P247 P235	P237 P237 P245 P239 P245 P234 P239	P84 P84 P85 P85 P86 F84
1945-95 HD14, HD15, HD19, HD19-4 Disnel Trackleyers GMC 6-71 6 43x5 1952-55 HD20 GMC6110 6 5x5.6 GMC6110 6 5x5.5 HD20 GMC6110 6 5x5.6 GMC6110 6 5x5.6 GMC6110 6 5x5.6 HD.11 (6 cyl.) 11,000 4 48x5.5 HD.16A, HD.16A, HD.16A, CHD.21AC 6 5x6.6 HD.1957-73 D10, D12, D14 134x34, D15, H3, G149, C138, 160 Ind. 4 4x64 1957-6 D17, D17LPC, G225 Ind. 4 4x64 4 4x64 1957-6 D17, D17D Dissel, DA252 6 31x44 1952-75 D19, C22 6 31x44 1952-75 D19, C22 6 31x44 1952-75 HD68, HD118 4.6 4x5.5 M65; H951-69 HD16, HD21 (K Exhaust, P86 PMof) 6 5x65; H957-67 C139 (33x33k), C149 4 31x33 1956-75 G133, C230 (6 cyl.) 4 31x34 1955-75 1900 (C2300 33x x41 1900 (D2800), 1900 Dissel (D2900) 6 33x44 1965-75 1900 (C2300 33x x41 1900 (D2800), 1900 Dissel (D2900) 6 33x44 1965-75 1900 C Cas and LP C2500 34x45 (D2800 5 5x75 D11 and D21 Series II 3400, 3500 6 4x55	****	18D 22 8 13C	12E 20U 9BR	L18D L22 L8 L13C L8	LEATH <sup>1</sup> L16DJ15 L12E L20U L6BP	JSATH 19810	ZBATH Z16DJ15' Z12E Z20U	R107 R108 R102 R104	R103 R104 R107 R102	45 45	45 30 45 45 45	P247 P235	P237 P245 P239 P245 P234 P239	P84 P85 P85 P86 F84
1952-75   10.20   CAMC6110   6   5x5.6	*****	18D 22 8 13C	12E 20U 9BR	L18D L22 L8 L13C L8	L160j15 L12E L20U L68P	[9R10	Z16DJ15* Z12E Z20U	R107 R108 R102 R104	R104 R107 R102	45 45	30 45 45 45	P247 P235	P245 P239 P245 P234 P239	P85 P85 P86 F84
1956-75   HD-6, HD-11 (6 cyl.) 11,000   4   44ka5%   6   5%m6%   1956-71   HD-16A, HD-16AC, HD-21AC   4   45km6%   1957-73   D10, D12, D14 318ka3%), D15, H3, G149, G138, 160 lnd.   4   4km4%   1957-64   D17D Dissal, DAZ6Q   6   36km6%   1952-75   D19, G26Q   6   36km6%   1958-69   HD68, HD118   4,6   46km5%   46km5%   4,6   46km5%	****	22 8 13C 8	12E 20U 9BR	L22 L8 L13C L8	L12E L20U L68P		Z12E Z20U	R107 R108 R102 R104	R107 R102	45 45	45 45 45	P247 P235	P239 P245 P234 P239	P85 P86 P84
1955-71   ND-16A, ND-16AC, ND-21AC   6   5 \(  \$\text{	K K K K	22 8 13C 8	20U 98R	L22 L8 L13C L8	L20U L6BP		Z20U	R108 R102 R104	R107 R102	45 45	45 45	P247 P235	P245 P234 P239	786 FB4
1957-75   D17, D17, D17, D18, D14 (34x34), D15, M3, G149, G138, 160 Ind.   4 34x354     1957-75   D17, D17, D17, D17, D17, D17, D17, D17,	% X X	13C 8	98R	LI LI3C LI	LEBP			R102 R104	R102	45	45	P235	P234 P239	<b>FB4</b>
1957-75   D17, D17LPG, G226 ind.   4   4x49    1957-64   D17D Dissell, DA262   6   3%x494   1958-69   HD68, HD118   4,6   4%x5%   1958-69   HD68, HD118   4,6   4%x5%   1958-69   HD68, HD118   4,6   4%x5%   4,6	×	13C 8		LI3C LIS			Z9x10	R104	,				P239	
1957-75   D17, D17LPG, G226 ind.   4   4x49    1957-64   D17D Dissell, DA262   6   3%x494   1958-69   HD68, HD118   4,6   4%x5%   1958-69   HD68, HD118   4,6   4%x5%   1958-69   HD68, HD118   4,6   4%x5%   4,6	% %			L	L9R10		Z9×10		R103	30	45	P240		PR5
1952-75   1952   6 3 %x4%	76	-	••	L										
1952-75   1952   6 3 %x4%	-	44	**					R 102	R102	45	45	P235	P233	P85
1958-69   HD68, HD118   4,6   4Km5%     1958-69   HD16, HD21   18   Exhaust, P86   Plant     1958-69   HD16, HD21   18   Exhaust, P86   Plant     1957-67   C139 (3km3%), C149   4   3km3%     1960-75   C153, C230 (6 cyl.)   4   3km4%     1965-75   190XT Cas and LP   C2800     1965-75   190XT Cas and LP   C2800     1965-75   D21 and D21   Series   1   3400, 3500     2018-69   3400, 3500   6   4km5     2018-69   4km5   4km5     2018-69   4km5   4km5     2018-69     2018-69   4km5     2018-69     2018-	-		/4	LIJA	L78	,		R103	R102	45	45	P237	P235	P84
1951-69   ND16, ND21 (K Exhaust, P86 PNet)   6   55 m65;   1957-67   C139 (3%:33%), C149   4   31:x3%   1960-75   C153, C230 (6 cyl.)   4   33:x4%   1965-75   1900 (C2500 3% x 41 1900 (D2800), 190XT Dissel (D2900)   6   33:x4%   C2500   6   33:x4%   1965-75   190XT Cas and LP   C2500   6   33:x4%   C2500	ж	14C	118	L14C	LIIR	ITTR		R105	R104	45	45	P240	P238	PBS
1997-67 C139 (34x34%), C149 4 3%x34% 1990-75 C133, C230 (6 c4.) 4 34x44% 1995-75 190C (C2500 3% x 41 1900 (D2800), 190XC Dissel (D2900) 6 3%x44% C2800 6 34x44% 1995-75 190XT Cas and LP C2800 6 4%x5	×	160	LIR	L160	LTTR	J11R		R107		45	45	P243	P234	MS
1965-75 190C (C2500 3% x 4) 190D (D2800), 190XT Direct (D2800) 6 3%x4% 1965-75 190XT Gas and LP C2800 6 3%x4% 1965-75 D21 and D21 Series II 3400, 3500 6 4%x5	74			LE	LGIP	,		R102		45	45	P235	P234	PB4
1965-75 190C (C2500 3% ± 4) 190D (D2800), 190XT Dissel (D2900) 6 3%±4% C2800 6 3%±4% 1965-75 190XT Cas and LP 6 3%±4% 1965-75 D21 and D21 Series II 3400, 3500 6 4%±5	74	782	78R					E 102	R102				P235	P84
1965-75 190XT Gas and LP G2800 6 3%s4% 1965-75 D21 and D21 Series 11 3400, 3500 6 4%x5						1 486 x 28	7						7235	
1965-75 D21 and D21 Series 11 3400, 3500 6 41/x5												P239	P237	
1967-75 1800 Tractor 2800 Foring 6 3%r4%								R 105					7238	
		IGAR				x 1.486 x	290	R104					P235	P97
1967-75 170G Tractor 170 Engine 4 3%a4%				L13		1.578 x 1		£105		30		P240		
1962-75 16,000H; 21,000H			19. w 1					-103		30		P237	P236	
1959-64 15,000; 16,000; 21,000 (% Exhaust, PS6 Pilot) 6 5%x6',										45		P237	P243	
1965-75 Late 15,000; 16,000; 21,000 (% Enhoust, P86 Pillet) 6 5'4x6',										45		P237	P242	
1960-66 Early 6000: 7000: 10.000: 11.000						, 1.92~ ≖ .     T	710	8105	R104				P238	PBS
1966-75 Late 6000; 7000; 10,000; 11,000 4 4%s5%						D2IU15		K IUS	#103			P240	F237	
						J12JU15			R103	30		P237	P237	PBSF
1967-75 Mark II; 19,000; 21,000; 25,000 6 5'4x6'4 Special production oversize seets are available for all models shown.		JM1.	7 K	ולי ול כדים.ו					K IUS	30	30	743/	F 23 /	rest

Replacement Ring for Factory Installed Insert.

#### ALLIS-CHALMERS (FORMERLY BUDA ENGINES)

									VALVE	SEATS							SEAT (	DIME
Year	Model	Make	Eng. Cyl.	165		Cas		Lee Int.	- Alley Ext.		ey Lee-Lite Ext		Cutter Exh.			. Crim	i. Wh.	Es. Pi
		Own		3%a4%			10A	L13	LIDA			R105	R104				P239	
1930.53	H326, HM326, HM326R, HP326, HPG326 HP351	Own		3%45%			10A	LIB	LIDA		*****	R105		45		P241		
1931-40	K325 (K369, KM369-PGr(%)	Own	_				16	LIE	L16	16	Z16		R106			P245		
1981-58	K393, KM393 (K428, KG428-4%s4%)	Own				18	16	LIB	L16	115	Z16	R107	R106	45	45	P245	P243	785
1991-58	K325 (K369, KM369-4%+6%) K393, KM393 (K428, KG428-4%+4%) L525, LG525, LM525, LM525A	Own	_	45±55		18	16	LI	L16	<b>J16</b>	Z16	R 107	R106	45		P245		
<b>932-56</b>	H217, HM217, HM217R, HP217	Dwn.				13	104	L13	LIDA	_		R105	R104		45	P241		
97-44	4DT196, 4DTM196, 6DT294 JL-877 (JL1395, 6 Cyl 6%x7%)	O-m		3%#4%	<b>%</b>	10	. 7 .	L10 .	L7 .	. ק		R103	RIOZ			P237 P261	P235 P261	
937-48 930 E4	- JE-877 (JE1995, 6 Cyl 6%#/%) - 40T212, 40TM212, 60T317, 60TM317, 60TMR3	0 <del>ws</del>			X	10	† † 	L10 *	L7 *	. * 17	Ŷ	R115	R115			P237		
	6DT909, 6DTM909			5%x7	Ž.		18	L20	Ü	17			R107	45	-	P247		
	6DT278	. 0			×.		7	L10	L7	17			R102			P237		
	SDT468, SDTM468, SDTMR468	Ows				15	H	L15	L11	,			R104	45		P243		
939.48	6DT415, 6DTM415	Own	6	4151	×	12	11	LIZ	LII		<del>-</del> .	R 104	R104	45	45	P239	P239	PET
	6DC1611	Own	6	6% <b>≈8</b> %	×.	27	22U	1.27	,L22U			R112	R109	45	45	P255	7251	PB
339·51	P1879, PCG1879, PCS1879, PC2505, 8PC-2505,	_		<b></b> .								<b>_</b>						
	#PCS-2505	Own	6,8	6×.8%	×.	31	28	L318	L28			R115	R112	45	45	P259	P255	PE
940.63	60C1879, 60C8-1879, 60CMR1879, 60CS1879, 60CSG1879, 60CSMR1879, 60H1879, 60HMR187																	
	BDC2505, BDC52505	7. Own	41	6×=8×	ν.	31	25	LITE	L25	125	Z25·	B115	R111	45	45	P259	1255	PE
44 60	6DC844, 6DCG844, 6DCMR844, 6DCSMR844	Own				22	20	123	L20	μ)	225	R109	R108			P251		
	SDC1125, SDCM1125, SDCMR1125, SDC51125,		•	,	-				4			*107	-100	٠,	٠,			
~ ~	BDCSMR1125	Own		5%=61;	K.	22	20	L22	L20			R109	R106	45	45	P251	F247	PB
45.62	18D38, 28D77, 28DMC77, 48153, 48D153,		•		-	_							R101	45			P233	
	48DMG153, 48DMR153	Own	1,2,4	3%#4%	К,	10	6	L10	L6	16		R103	R101			P237		
	68230, 68D230, 68DMR230, 68G230	Own		3Ka436		10	6	LIO	1.6	16		R103				₽237		PL
	48182, 48D,182, 48DMR182, 68273, 68D273,																	
	68DMR273	. Own	4,6	3%x4%		10	6	FIO	L6	<b>j6</b>							<b>?23</b> 3	
	1.0525	Own	•	41:25%		18	13BU	LIB	L130U		Z138U'		R 105	45		P245	P241	71
	CHOSES ALADOCAE CLASSES CLASSES BLASTE	Own		5%x6		26	180	L26	LIBU	)18U	Z18U.		R107	45		P255		-
11.54	4MO645, 4MOG645, 6MO970, 6MOG970, 8MO12	Own.	70.0	5'•×6':	χ.	22	18U 18U	L26 L22	L18U L18U	JIBU	Z18U*	R109	R107 R107			P255 P251	P245 P245	PS PE
C) C)	40C645	Own				26	180	126	LIBU	)18U  18U	Z180.	RIII		45		P255		
	6MO-672	Own		, 120		26	180	126	LIBU	18U	Z18U	R111			30	P255	P245	Ph
	and a minute	_		5% <b>≈6</b>		22	180	1.22	LIBU.	)18U	Z18U*		R107				P245	73
51.58	6DA-779 6DASB44, 6DAB44, 6DAMB44, 6DASMB44 8DA-1125, 8DAM-1125, 8DAS1125, 8DASM1125	Own	6	5'4x6',				L22	1	,	1		R108				P247	
51-58	8DA-1125, 8DAM-1125, 8DAS1125, 8DASM1125	Own		5'4#6'1	К,	22		L22	1	i	1		RIDE	45		P247	P247	71
53-CO	6DA273, 6DAMR-Z73, DZ73	. Own	6	31/x4!i	×.	14C	ER .	L14C	LBR	JER	ZBR	R 105	R102	45	45	P239	P235	PE.
953-56	6DAS-516 D344, D516 (6 cyl.)	Own	6	4%:5% 4%:5%		18D 17A	12T 12C	L 18D	LIZT LIZC		Z12C	R107	R104 R104	45		P245	P239	78
Loquire	s ring $2\frac{1}{2}x3x^{2}z$ , special production. Elequires ring	1962Xx3	<b>6</b> .															
				AUT	-			UCK	-									
	ENGINE 315, 331, 358			AUT	X,	]78	R TR	L178	LISA			R107					P243	
	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH.			AUT	X,				-			R107 R107					P243 P242	
	ENGINE 377 (AFTER SERIAL 25-5644 3/" EXH.: ENGINE 404, 406, 447, 453, 501 (1)" Exh.: For 50	) DIUM		AUT	X.	]78 178	15A	L178 L178	LISA LIST	(140)	7180	R107	R106			P245	P242	P86
en Mad	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)" Exh. For 50 COOLED VALVES!	DIUM			X,	]78 178		L178	LISA	JIBU	ZIBU		R106			P245		PB6
pts Mod	ENGINE 377 (AFTER SERIAL 25-5644 3/" EXH.: ENGINE 404, 406, 447, 453, 501 (1)" Exh.: For 50	DIUM			X.	]78 178	15A	L178 L178	LISA LIST	J1 <b>8</b> U	Z18U	R107	R106			P245	P242	P86
de Med	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)" Exh. For 50 COOLED VALVES!	DIUM			X X	]78 178 20	15A 18U	L178 L178 L20	LISA LIST	J18U	ZIBU	R107	R106			P245	P242	Pik
95·53	ENGINE 377 (AFTER SERIAL 25-5644 15" EXH. ENGINE 404, 408, 447, 453, 501 €1" Exh. For 50 COOLED VALVES1 del Auto Car Use Cummins or GMC Engine, Refer h Series 40 Special	) DIUM o These Er	igno L	istings. BUIC 31644	K K	]70 170 20 AUT	15A 1 <b>8</b> U 7	L178 L178 L20	LISA LIST: LIBU	)1 <b>2U</b> )7	Z18U	R107	R106 R107 R102	-	45	P245 P247 P237	P242 P245 P235	PRO PRO PRO
95-53 95-52	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 405, 453, 501 (1)" Exk. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refor h Series 40 Special Series 50 Separe	Ourn	igne L 3 8	istings BUIC 3Ka4X 3Ke4X	K K K	]70 175 20 AUI 10 10	15A 18U FORE 7 7	L170 L170 L20 DBILI L10 L10	L15A L15T: L18U	7  7		R107 R106 R103 R103	R106 R107 R102 R102	45	45 45	P245 P247 P237 P237	P242 P245 P235 P235	PB PB PB PB
95-53 15-52 16-52	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)" Exk. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer In Series 40 Special Series 50 Super Series 50, 70, 80, 90 ROADMASTER	Ourn Ourn Ourn	igne L 3 8 8	istings BUIC 316x41/ 316x41/ 316x41/ 316x41/	K K K K K	]70 170 20 AUT	15A 18U 7 7 7	L178 L179 L20 DBILI L10 L10 L168	L15A L15T: L18U	]7 ]7 j8	Z18U Z8	R107 R108 R103 R103 R105	R106 R107 R102 R102 R102	45 45	45 45 45	P245 P247 P237 P237 P241	P245 P245 P235 P235 P235	PS PS PS PS
15-53 15-52 16-52 19-54	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 447, 453, 501 €\" Exh. For 50 COOLED VALVES\ del Auto Car Use Cummins or GMC Engine, Refer h  Series 40 Special Series 50 Seper Series 50, 70, 80, 90 ROADMASTER Series 93-50, 745-70, 741-60, 40 Special (3\hat{1}\hat{2}\hat{3}\hat{1}\hat{3}\hat{1}\hat{3}\hat{1}\hat{3}\hat{1}\hat{3}\hat{3}\hat{3}\hat{4}\hat{3}\hat{4}\hat{3}\hat{4}\hat{3}\hat{4}\hat{3}\hat{4}\hat{3}\hat{4}\hat{3}\hat{4}\hat{3}\hat{4}\hat{3}\hat{4}\hat{4}\hat{3}\hat{4}	Ourn Ourn Ourn Ourn Ourn	gme L 3 8 8	BUIC 3Ke4% 3Ke4% 3Ke4% 4c3%	K K K K K K K K K K K K K K K K K K K	]70 175 20 AUI 10 10	15A 18U 7 7 7 8 6	L178 L179 L20 DBIL L10 L10 L168 L14CE	L15A L15T	7  7  4  6	Z8	R107 R108 R103 R103 R105 R105	R105 R107 R102 R102 R102 R102 R101	45 45 45	45 45 45 45	P245 P247 P237 P237 P241 P241	P242 P245 P235 P235 P235 P235 P233	PS PS PS PS PS
5-53 5-52 6-52 3-54 5-56	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer to Series 40 Special Series 50 Super Series 60, 70, 80, 90 ROADMASTER Series V3-50, V8-70, V8-60, 40 Special 131x3%() AR Cars	Ourn Ourn Ourn Ourn Ourn Ourn Ourn	igne L 8 8 8	istings BUIC 316444 316444 44376 44376 44376	K K K K K K K K K K K K K K K K K K K	]70 175 20 AUI 10 10	15A 18U 7 7 7 8 6	L178 L179 L20 DBIL L10 L10 L168 L14CE L16E	L15A L15T	]7 ]7 j8 j6	Z8	R107 R108 R103 R103 R105 R105 R105	R105 R107 R102 R102 R102 R101 R102	45 45 45 45	45 45 45 45 45	P245 P247 P237 P237 P241 P241 P241	P242 P245 P235 P235 P235 P233 P235	71 71 72 73 73 74 75 75 75
15-53 15-52 16-52 13-54 13-56 17-58	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 447, 453, 501 (1)" Exk. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer in Series 40 Special Series 50 Septer Series 60, 70, 80, 90 ROADMASTER Series V3-50, V8-70, V3-60, 40 Special (31x3%) AR Cars	Own Own Own Own Own Own Own	3 8 8 8 8 8 8 8 8 8	istings BUIC 3%x4% 3%x4% 4x3% 4x3% 4x3%	K K K K K K K K K K K K K K K K K K K	]70 175 20 AUI 10 10	15A 18U 7 7 7 8 6 8	L178 L179 L20 L10 L10 L168 L14CE L16E L16E	L15A L15T	]7 ]7 j8 j6 j8E ]9	Z8 Z9	R107 R108 R103 R103 R105 R105 R105 R106	R106 R107 R102 R102 R102 R101 R102 R103	45 45 45 45 46	45 45 45 45 46	P245 P247 P237 P237 P241 P241 P241 F242	P242 P245 P235 P235 P235 P235 P235 P235	71 71 72 73 74 75 75 71
15-53 15-52 16-52 16-54 17-58 17-58	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer in Series 40 Special Series 50 Seper Series 50, 70, 80, 90 ROADMASTER Series 93-50, V8-70, V8-60, 40 Special (3\s3\%) AR Cars AR Medels AR Medels AR Medels AR Medels (100) 100 FER 100	Ourn Own Own Own Own Own	igne L 3 8 8 8 8	BUIC 3%44% 3%44% 443% 443% 44433% 44433%	K K K K K K K K K K K K K K K K K K K	]70 175 20 AUI 10 10	15A 18U 7 7 7 8 6 8 9	L178 L179 L20 L10 L168 L14CE L16E L18E L18E	L15A L15T- L18U	]7 ]7 j8 j6	Z8	R107 R108 R103 R103 R105 R105 R105 R106 R106	R106 R107 R102 R102 R102 R103 R103	45 45 45 46 46	55 45 45 45 46 46	P245 P247 P237 P237 P241 P241 P241 P242 P243	P242 P245 P235 P235 P235 P235 P235 P237	PB P
15-53 15-52 16-52 16-54 17-58 17-66 11-66	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 405, 453, 501 (1," Exh. For 50 COOLED VALVES) del Auto Car Use Cummins or GMC Engine, Refer h Series 40 Special Series 50 Seper Series 60, 70, 80, 90 ROADMASTER Series VI-SO, VE-70, VI-60, 40 Special (31-x2%) AR Cars AR Medals (Invicts, Electra 4Ke3%) Special 4000, 4100, 4300 V8	Ourn Own Own Own Own Own	3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	BUIC 316x4% 316x4% 316x4% 4x376 4x376 4x376 4x376 4x376 31x276	K K K K K K K K K K K K K K K K K K K	]70 175 20 AUI 10 10	15A 18U 7 7 7 8 6 8	L178 L170 L20 L10 L10 L168 L14CE L36E L18E L98H2	L15A L15T L18U	]7 ]7 ]8  6 ]8E ]9	Z8 Z9	R107 R108 R103 R103 R105 R105 R106 R106 R106	R105 R107 R102 R102 R102 R101 R102 R103 R103	45 45 45 46 46 45	555556665	P245 P247 P237 P237 P241 P241 P241 P242 P243 P237	P242 P245 P235 P235 P235 P235 P237 P237 P234	71 P1 P2 P2 P2 P1
95-53 95-52 96-52 93-54 93-54 97-66 91-66 93-67	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 447, 453, 501 (1," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer h  Series 50 Seper Series 50 Seper Series 50, 70, 90, 90 ROADMASTER Series VI-50, V8-70; V8-60, 40 Special (3\hat\text{3.1}\hat\text{3.1}\hat\text{4.1} AR Cars AR Mediat (1\text{4.1}\text{4.1}\text{5.2}\text{5.1} Special 4000, 4100, 4300 V8 Special 4000, 4100, 4300 V8 Special 4005, 54\text{5.25}	Ourn Own Own Own Own Own	igne L 3 8 8 8 8 8 8	BUIC 314444 314444 42314 42314 42314 42314 324214 3342214 3342214	K X X X X X X X X X X X X X X X X X X X	178 178 20 <b>AUI</b> 10 10 16 168	15A 18U 7 7 8 6 8 9 10 78 7	L178 L179 L20 DBIL L10 L10 L168 L14CE L16E L18E L98H2 L10	L15A L15T L18U	]7 ]7 ]8 ]6 ]8E ]9 ]10	Z8 Z9 Z10	R108 R108 R109 R105 R105 R105 R106 R106 R103 R103	R105 R107 R102 R102 R102 R103 R103 R103 R102 R102	45 45 45 45 46 46 45 45	55 55 55 56 66 65 55	P245 P247 P237 P237 P241 P241 P242 P243 P237 P237	P242 P245 P235 P235 P235 P235 P237 P237 P234 P234	PT P
15-53 15-52 16-52 16-52 16-54 17-58 17-66 11-66 13-67 14-66	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer in Series 40 Special Series 50, 70, 80, 90 ROADMASTER Series 93, 50, 98, 70, 98, 60, 40 Special (31-x3%) AR Cars AR Medals (Invicts, Electra 46,3%) Special 4000, 4100, 4300 VB Special 4000, 4100, 4200 VB Special 9000, 4101, 425 Engine 400, 401, 425	Own Own Own	igne L 3 5 5 3 6 3	BUIC 316x4% 316x4% 316x4% 4x376 4x376 4x376 4x376 4x376 31x276	K K K K K K K K K K K K K K K K K K K	178 178 20 <b>AUI</b> 10 10 16 168	15A 18U 7 7 8 6 8 9 10 78	L178 L178 L20 DBILI L10 L168 L14CE L16E L18E L18E L9BH L19D L18E	L15A L15T- L18U	]7 ]7 ]8 %6 ]8E ]9 ]10	Z8 Z9 Z10	R108 R108 R109 R105 R105 R105 R106 R106 R103 R103 R106	R105 R107 R102 R102 R102 R103 R103 R102 R103 R102 R103	45 45 45 46 46 45 45 45	45 45 45 46 46 45 45	P245 P247 P237 P237 P241 P241 P242 P243 P237 P237 P243	P242 P245 P235 P235 P235 P235 P237 P237 P234 P234	
15-53 15-52 16-52 16-54 16-56 17-58 18-66 18-67 18-67	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer to Series 40 Special Series 50 Seper Series 60, 70, 80, 90 ROADMASTER Series V8-50, V8-70, V8-60, 40 Special (31-x3%) AR Cars AR Medels (Invicta, Electra 46x3%) Special 4000, 4100, 4300 V8 Special V6, Skylark V6, 225 Engine 400, 401, 425 Engine 400, 401, 425 Engine 300, 340	Ourn Own Own Own Own Own Own	igne L 3 3 5 5 8 8 8 8 8 8	BUIC 3%x4% 3%x4% 3%x4% 4x3% 4%x3% 4%x3% 4%x3% 4%x3% 4%x3% 4%x3% 4%x3% 4%x3,64	K K K K K K K K K K K K K K K K K K K	178 20 <b>AU1</b> 10 10 16 10	15A 18U 7 7 8 6 8 9 10 78 7	L178 L179 L20 DBIL L10 L10 L168 L14CE L16E L18E L98H2 L10	L15A L15T- L18U	]7 ]7 ]8 ]6 ]8E ]9 ]10	Z8 Z9 Z10	R107 R108 R103 R103 R105 R105 R106 R106 R106 R106 R106 R105	R105 R107 R102 R102 R102 R103 R103 R102 R103 R102 R103	45 45 45 46 45 45 45 45	45 45 45 46 46 45 45 45 45	P245 P247 P237 P237 P241 P241 P242 P243 P237 P237 P243 P243 P243	P242 P245 P235 P235 P235 P235 P237 P237 P234 P235 P234	
15-53 15-52 16-52 16-54 16-56 17-58 18-66 18-67 18-67	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer to Series 40 Special Series 50 Seper Series 60, 70, 80, 90 ROADMASTER Series V8-50, V8-70, V8-60, 40 Special (31-x3%) AR Cars AR Medels (Invicta, Electra 46x3%) Special 4000, 4100, 4300 V8 Special V6, Skylark V6, 225 Engine 400, 401, 425 Engine 400, 401, 425 Engine 300, 340	Ourn Own Own Own Own Own Own	igne L 3 3 5 5 8 8 8 8 8 8	BUIC 3%44% 3%44% 443% 443% 4443% 4443% 4443% 4843% 4843% 48434 48434 48434 48434 48434	K K K K K K K K K K K K K K K K K K K	178 20 <b>AU1</b> 10 10 16 10	15A 18U 7 7 8 6 8 9 10 78 7	L178 L179 L20 L10 L10 L168 L14CE L36E L18E L18E L98H2 L10 L18E L16BE L16BE L16GE	L15A L15T L18U L7 L7 L7 L6 L6 L6 L8E L9 L10 00 L7B L7 L9 L7 L13CE	7  7  8  6  aE  9  10	Z8 Z9 Z10	R107 R108 R103 R105 R105 R105 R106 R106 R103 R106 R105 R105 R105	R106 R107 R102 R102 R102 R103 R103 R103 R103 R102 R103 R102	45 45 45 46 45 45 45 45 45	5555566555555	P245 P247 P237 P237 P241 P241 P242 P243 P237 P237 P243 P243 P241 P245	P242 P245 P235 P235 P235 P235 P237 P234 P234 P234 P234 P239	
15-53 15-52 15-52 15-53 15-53 16-67 16-67 16-75 16-75 16-75	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 497, 453, 501 (1)" Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer h Series 40 Special Series 50 Seper Series 50, 70, 80, 90 ROADMASTER Series VII-50, V8-70; VII-60, 40 Special (3½x3%) AR Cars AR Medels AR Medels AR Medels AR Medels Special 400, 4100, 4300 V8 Special 400, 4101, 425 Engine 400, 401, 425 Engine 300, 340 Engine 400 and 430 (4½x3%), 455 (4½x3.9) 250 Engine 400 and 430 (4½x3%), 455 (4½x3.9) 250 Engine 400 SERIES	Ourn Own Own Own Own Own Own	3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	intings  BUIC  3%a4%  3%a4%, 443%, 443%, 443%, 443%, 443%, 4443%, 4443%, 4443%, 4443%, 3%a2%, 4443%, 3%a23%, 48a3,6%, 3%a33%, 3%a33%, 3%a33%, 3%a33,833,833,833,833,833	K K K K K K K K K K K K K K K K K K K	178 179 20 AU1 10 10 168	15A 18U 7 7 7 8 6 8 9 10 78 7 9	L178 L179 L20 L10 L168 L14CE L16E L18E L98H2 L10 L18E L16EE	L15A L15T L18U L7 L7 L7 L6 L6 L6 L8E L9 L10 00 L7B L7 L9 L7 L13CE	7  7  8  6  9  10  7  7	Z8 Z9 Z10 Z9 Z7	R103 R103 R103 R105 R105 R106 R103 R103 R106 R107 R107	R105 R107 R102 R102 R102 R103 R103 R103 R102 R104	45 45 45 46 45 45 45 45 45 45	55 55 55 56 66 65 55 55 55 55 55 55 55 5	P245 P247 P247 P237 P241 P241 P241 P242 P243 P237 P247 P247 P247 P245 P246	P242 P245 P235 P235 P235 P237 P236 P237 P234 P234 P239 P239 P236	
15-53 15-52 15-52 15-54 15-54 17-56 11-66 11-67 15-75 11-73	ENGINE 377 (AFTER SERIAL 25-5644 ½" EXH. ENGINE 404, 408, 447, 453, 501 (";" Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer h Series 40 Special Series 50 Seper Series 50, 70, 80, 90 ROADMASTER Series 79, 50, 78-70, 78-60, 40 Special (31/523%) AR Cars AR Models (Invicta, Electra 48/63%) Special 4000, 4100, 4300 V8 Special 4000, 4100, 420 V8 Special 50, 51,5146 V6, 225 Engine 400, 401, 425 Engine 400 and 430 (44/63%), 455 (44/63.9) 250 Engine (LE) 350 Engine (LE) 35	Own Own Own Own Own Own Own	## ## ## ## ## ## ## ## ## ## ## ## ##	is tings  BUIC  3%a4% 3%a4% 4%a3% 4%a3% 4%a3% 4%a3% 4%a3% 4%a3% 3%a23% 4%a3% 4%a3% 4%a3%	K K K K K K K K K K K K K K K K K K K	178 179 20 AU1 10 10 168	15A 18U 7 7 8 6 8 9 10 7 9 7	L178 L179 L20 L10 L10 L168 L14CE L18E L18E L98H2 L10 L168E L168E	L15A L15T L18U L7 L7 L7 L6 L6 L6 L8E L9 L10 00 L7B L7 L9 L7 L13CE	7  8  6  8  9  10  7  9  7  13CE	Z8 29 Z10 29 Z7 Z9ATH	R103 R103 R103 R105 R105 R106 R106 R106 R106 R107 R107 R107 R107 R107 R107 R107 R107	R102 R102 R102 R102 R102 R103 R103 R103 R104 R104 R103 R104 R103 R104 R103	45 45 45 46 45 45 45 45 45 45	45 45 45 45 46 46 45 45 45 45 45 45 45 45	P245 P247 P237 P241 P241 P241 P242 P243 P237 P243 P247 P245 P245 P246 P246 P246	P242 P245 P235 P235 P235 P237 P236 P237 P234 P234 P239 P239 P236	
15-53 15-53 15-53 15-53 15-53 15-53 15-53 16-67 15-77	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer in Series 40 Special Series 50, 70, 80, 90 ROADMASTER Series 60, 70, 80, 90 ROADMASTER Series 60, 70, 80, 90 ROADMASTER Series 91, 50, V8-70, V8-60, 40 Special (31-x3%) AR Cars AR Medels (Invicta, Electra 46x3%) Special 4000, 4100, 4300 V8 Special 4000, 4100, 4200 V8 Engine 400, 401, 425 Engine 400, 401, 425 Engine 400, 401, 425 Engine 400 and 430 (45x3%), 455 (45x3.9) 250 Engine (L6) 350	Ourn Own Own Own Own Own Own	3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	BUIC 3844% 3844% 3844% 443% 443% 4843% 4843% 4843% 4843% 3843% 3843% 4843% 3843% 3843% 3843% 3843%	K X X X X X X X X X X X X X X X X X X X	178 179 20 AU1 10 10 10 10 208	15A 18U 17ON6 7 7 8 6 8 9 10 7 9 10 8	L178 L179 L20  DB1L L10 L168 L14CE L18E L18E L19E L10 L18E L16UE	L15A L15T L18U L7 L7 L7 L7 L8 L6 L8E L9 L10 0 L7B L7 L9 L7 L19 L7 L19 L10 L10 L10 L10 L10 L10 L10 L10 L10 L10	17 17 18 16 18E 19 110 17 19 17 113C E 19ATH 110 116E	Z8 29 Z10 29 Z7 Z9ATH	R103 R103 R103 R103 R105 R105 R106 R106 R103 R107 R106 R107 R105 R106 R108 R107 R106 R108	R105 R107 R102 R102 R102 R103 R103 R103 R104 R103 R103 R103 R103 R103 R105 R105 R107 R107 R107 R107 R107 R107 R107 R107	45 45 45 46 46 45 45 45 45 45 45 45 45 45 45 45 45 45	555555666555555555555555555555555555555	P245 P247 P237 P237 P241 P241 P242 P243 P237 P247 P247 P248 P248 P249 P249 P249	P245 P235 P235 P235 P235 P237 P234 P234 P234 P239 P234 P239 P234 P239 P234 P239 P234 P239 P236 P237	PS P
5-53 55-52 55-54 55-54 55-54 56-66 67 57 57 57 57 57 57 57 57	ENGINE 377 (AFTER SERIAL 25-5644 1/5" EXH. ENGINE 404, 408, 447, 453, 501 (1/1" Exh. For SO COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer h Series 50 Seper Series 60 A0 Seper Series 60 A0 Seper Series 60 A0 Seper AR Cars AR Medals (Invicta, Electra 4Ka3%) Special 4000, 4100, 4300 V8 Special 4000, 3400 Engine 400 and 430 (4Kix3%), 455 (4Kix3.9) Z50 Engine (161 330 Engine Stage 1 455, Riviera G.S. 455 231 V-6 230 V-8	Own Own Own Own Own Own Own	3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 Mard % 4 Ma 3 % 4 Ma 3 % 3 Maz 3 % 4 Ma 3 % 4 Ma 3 % 3 Maz 3 % 4 Ma 3 % 4 Ma 3 % 3 Maz 3 % 4 Ma 3 %	K X X X X X X X X X X X X X X X X X X X	178 179 20 AU1 10 10 10 10 208	15A 18U 17ON6 7 7 8 6 8 9 10 7 9 10 8	L178 L179 L20  DB1L L10 L168 L14CE L18E L18E L19E L10 L18E L16UE	L15A L15T L18U L7 L7 L7 L6 L8 L8 L9 L10 00 L7B L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L7 L7 L9 L10 L10 L10 L10 L10 L10 L10 L10 L10 L10	17 17 18 16 19 110 17 19 113CE 19ATH 110	Z8 Z9 Z10 Z9 Z7 Z9ATH Z10	R103 R103 R103 R103 R105 R105 R106 R106 R103 R107 R106 R107 R105 R106 R108 R107 R106 R108	R105 R107 R102 R102 R101 R103 R103 R103 R104 R104 R104 R104 R104 R105	45 45 45 46 46 45 45 45 45 45 45 45 45 45 45 45 45 45	555555666555555555555555555555555555555	P245 P247 P237 P237 P241 P241 P242 P243 P237 P247 P247 P248 P248 P249 P249 P249	P245 P235 P235 P235 P235 P237 P234 P234 P234 P239 P234 P239 P234 P239 P234 P239 P234 P239 P236 P237	
55.55.55 55.55 55.55 55.56 55.56 56.66 56.66 56.75 57.	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer in Series 40 Special Series 50, 70, 80, 90 ROADMASTER Series 60, 70, 80, 90 ROADMASTER Series 60, 70, 80, 90 ROADMASTER Series 91, 50, V8-70, V8-60, 40 Special (31-x3%) AR Cars AR Medels (Invicta, Electra 46x3%) Special 4000, 4100, 4300 V8 Special 4000, 4100, 4200 V8 Engine 400, 401, 425 Engine 400, 401, 425 Engine 400, 401, 425 Engine 400 and 430 (45x3%), 455 (45x3.9) 250 Engine (L6) 350	Own Own Own Own Own Own Own	3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 Mard % 4 Ma 3 % 4 Ma 3 % 3 Maz 3 % 4 Ma 3 % 4 Ma 3 % 3 Maz 3 % 4 Ma 3 % 4 Ma 3 % 3 Maz 3 % 4 Ma 3 %	K X X X X X X X X X X X X X X X X X X X	178 179 20 AU1 10 10 10 10 208	15A 18U 17ON6 7 7 8 6 8 9 10 7 9 10 8	L178 L179 L20  DB1L L10 L168 L14CE L18E L18E L19E L10 L18E L16UE	L15A L15T L18U L7 L7 L7 L7 L8 L6 L8E L9 L10 0 L7B L7 L9 L7 L19 L7 L19 L10 L10 L10 L10 L10 L10 L10 L10 L10 L10	17 17 18 16 18E 19 110 17 19 17 113C E 19ATH 110 116E	Z8 Z9 Z10 Z9 Z7 Z9ATH Z10	R103 R103 R103 R103 R105 R105 R106 R106 R103 R107 R106 R107 R105 R106 R108 R107 R106 R108	R105 R107 R102 R102 R102 R103 R103 R103 R104 R103 R103 R103 R103 R103 R105 R105 R107 R107 R107 R107 R107 R107 R107 R107	45 45 45 46 46 45 45 45 45 45 45 45 45 45 45 45 45 45	555555666555555555555555555555555555555	P245 P247 P237 P237 P241 P241 P242 P243 P237 P247 P247 P248 P248 P249 P249 P249	P245 P235 P235 P235 P235 P237 P234 P234 P234 P239 P234 P239 P234 P239 P234 P239 P234 P239 P236 P237	PS P
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35:53 35:52 35:53 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 35:54 36:54	ENGINE 377 (AFTER SERIAL 25-5644 %" EXH. ENGINE 404, 408, 447, 453, 501 (1)" Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer in Series 40 Special Series 50 Super Series 60, 70, 80, 90 ROADMASTER Series 93-50, V8-70, V8-60, 40 Special (31-x3%) AR Cars AR Medels AR Medels AR Medels (Invicta, Electra 48-3%) Special 4000, 4100, 4300 V8 Special 4000, 4100, 4300 V8 Engine 900, 401, 425 Engine 400 and 430 (45-25 Engine 900, 401 350 Engine 5tage 1 455, Riviera G.S. 455 231 V-6 260 V-8 reduction Los-Lite rings 2-e available for Buick Spe	Own Own Own Own Own Own Own	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	BUIC 36a4% 36a4% 36a4% 463% 463% 4643% 3643% 4643% 3643% 46438 3643% 46438 36436 46438 36436 46439	EN NEW YEAR WAR WAR WAR WAR WAR WAR WAR WAR WAR W	178 179 20 20 AUT 10 10 10 10 200 222£ 12CE	15A 18U 77 7 8 6 8 9 10 77 7 9 7 9	L179 L20 L10 L10 L10 L16E L14CE L16E L18E L19EH	L15A L15T L18U L7 L7 L7 L6 L8 L8 L10 N L7B L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L10 L10 L10 L10 L10 L10 L10 L10 L10 L10	17 17 18 16 18E 19 110 17 19 17 113C E 19ATH 110 116E	Z8 Z9 Z10 Z9 Z7 Z9ATH Z10	R107 R108 R103 R103 R105 R105 R105 R106 R106 R107 R107 R107 R106 R104 R104 R104	R102 R107 R102 R102 R102 R103 R103 R103 R104 R104 R103 R104 R103 R104 R103 R104 R105 R102 R104 R105 R107 R107 R107 R107 R107 R107 R107 R107	45 45 45 46 46 45 45 45 45 45 45 45 45 45 45 45 45 45	45 45 45 46 46 45 45 45 45 45 45 45 45 45 45 45 45 45	P245 P247 P237 P237 P241 P241 P242 P243 P247 P247 P248 P249 P248 P249 P249 P249 P238 P238	P245 P235 P235 P235 P237 P237 P237 P234 P234 P235 P237 P237 P237 P240 P235 P237 P240 P235 P237	PS P
35.53 35.52 35.53	ENGINE 377 (AFTER SERIAL 25-5644 1/5" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! fel Auto Car Use Cummins or GMC Engine, Refer h Series 50 Seper Series V8-50, V8-70, V8-60, 40 Special (31/523%) AR Cars AR Media AR Media AR Media (1evicta, Electra 4Ke3%) Special 4000, 4100, 4300 V8 Special 4000, 410, 425 Engine 400, 401, 425 Engine 400 and 430 (4Kic3%), 455 (4Kic3.9) 250 Engine Stage 1 455, Riviera C.S. 455 231 V-6 250 V-8	Own Own Own Own Own Own Own	gone L 2 2 3 3 3 4 5 3 3 4 5 3 4 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8	BUIC 3844% 3844% 3844% 463% 463% 4643% 4843% 4843% 4843% 4843% 3843% 48433% 38433% 38433% 38433% 38433% 38433% 38433% 38433% 38433% 38433% 38433%	EN NEW YEAR WAR WAR WAR WAR WAR WAR WAR WAR WAR W	178 179 20 20 AUT 10 10 10 10 200 222£ 12CE	15A 18U 7 7 8 9 10 7 7 9 10 8 9 10 10 7 9 10 8	L179 L20 L10 L10 L10 L16E L14CE L18E L19EH2 L10 L18E L19EH2 L10 L18E L17EE	L15A L15T L18U L7 L7 L7 L6 L8 L8 L10 N L7B L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L7 L9 L10 L10 L10 L10 L10 L10 L10 L10 L10 L10	17 17 18 16 19 110 17 19 17 113CE 19ATH 110 116E 18 168P	Z8 Z9 Z10 Z9 Z7 Z9ATH Z10 Z8	R107 R108 R103 R103 R105 R105 R105 R106 R106 R106 R106 R107 R105 R104 R104 R104 R104	R105 R107 R102 R102 R102 R103 R103 R103 R103 R104 R104 R103 R105 R102 R104 R105 R107 R107 R107 R108 R108 R109 R109 R109 R109 R109 R109 R109 R109	45 45 45 45 45 45 45 45 45 45 45 45 45 4	55555566655555555555555555555555555555	P245 P247 P237 P241 P241 P241 P242 P243 P247 P247 P248 P248 P248 P249 P249 P238 P249 P238	P245 P235 P235 P235 P235 P235 P237 P236 P237 P237 P239 P237 P240 P237 P240 P237 P240 P237 P240 P237 P240 P237	PROPERTY OF THE PROPERTY OF TH
35.53.53.53.53.53.53.53.53.53.53.53.53.5	ENGINE 377 (AFTER SERIAL 25-5644 1/1" EXH. ENGINE 404, 408, 447, 453, 501 (1)," Exh. For 50 COOLED VALVES! del Auto Car Use Cummins or GMC Engine, Refer in Series 90 Seper Series 60, 70, 80, 90 ROADMASTER Series 93-50, 76-70, 78-60, 40 Special (31/13/1/4) AR Cars AR Models (Invicta, Electra 48/63/1/4) Special 4000, 4100, 4300 V8 Special 4000, 4100, 4205 Engine 400, 401, 425 Engine 400, 401, 425 Engine 400, 401, 425 Engine 300, 340 Engine 300, 340 Engine (L61 350 Engine (L61 350 Engine (L61 370 Engine (L61 470 Engine (L61	Own Own Own Own Own Own Own Own	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	BUIC  3844% 3844% 3844% 443% 44423% 44423% 48423% 48423% 48423% 48423% 48423% 38423% 48423% 38423% 48423% 38423% 48423% 38423% 38423% 38423% 38423% 38423%	KA K K K K K K K K K K K K K K K K K K	178 179 20 20 AUT 10 10 10 10 200 222£ 12CE	15A 18U 7 7 8 9 10 7 7 9 10 8 9 10 10 7 9 10 8	L179 L20 L10 L10 L10 L16E L14CE L18E L19EH2 L10 L18E L19EH2 L10 L18E L17EE	L15A L15T L18U L7 L7 L7 L7 L9 L10 L5 L7 L9 L10 L13CE L9ATH L10 L16E L8 L6BP	17 17 18 16 18E 19 110 17 19 17 113C E 19ATH 110 116E 16BP	Z8 Z9 Z10 Z9 Z7 Z9ATH Z10 Z8 Z8 Z10	R107 R108 R103 R103 R105 R105 R106 R106 R106 R107 R106 R108 R106 R108 R106 R108 R108 R108 R108 R108 R108 R108 R108	R105 R107 R102 R102 R102 R103 R103 R103 R103 R103 R103 R104 R104 R105 R104 R105 R106 R106 R107 R107 R107 R107 R108 R108 R108 R109 R109 R109 R109 R109 R109 R109 R109	45 45 45 45 45 45 45 45 45 45 45 45 45 4	65 45 45 45 45 45 45 45 45 45 45 45 45 45	P245 P247 P237 P241 P241 P241 P242 P243 P247 P247 P247 P248 P248 P249 P248 P248 P249 P248 P249 P248 P249 P248 P241 P241 P241 P241 P241 P241 P241 P241	P245 P245 P235 P235 P235 P237 P238 P237 P234 P237 P234 P237 P246 P237 P246 P237 P247 P247 P247 P247 P247 P247 P247 P24	PROPERTY OF THE PROPERTY OF TH
55.52.53.55.55.55.55.55.55.55.55.55.55.55.55.	ENGINE 377 (AFTER SERIAL 25-5644 1/5" EXH. ENGINE 404, 408, 447, 453, 501 (1/1" Exh. For SO-COOLED VALVES) del Auto Car Use Cummins or GMC Engine, Refer h Series 50 Seper Series 50 Seper Series 50 Seper Series 50 Seper Series 67, 70, 70, 90 90 ROADMASTER Series VII-50, VB-70; VB-60, 40 Special (31/123%) AR Cars AR Models AR Models (Invicts, Electra 46/43%) Special 4000, 4100, 4300 VB Special 400, 4100, 4300 VB Special 4000, 4100, 4300 VB Special 40000, 4100, 4300 VB Special 40000, 4100, 4300 VB	Own Own Own Own Own Own Own Own	2	BUIC 36a4% 36a4% 36a4% 43% 463% 46a3% 46a3% 46a3% 46a3% 46a3% 36a36 36a36 36a36 36a36 36a36 36a36 37a38 46a38	RE RE NEW YEAR AND	178 179 220 AU1 10 10 10 168 10 208 222 12CE	15A 18U 7 7 7 8 6 8 9 100 78 7 9 100 12C 8 10 9 10	L179 L20  DBILL L10 L10 L160 L14CE L16E L10 L18E L10	L15A L15T L18U L7 L7 L7 L6 L8 L10 0 L7B L7 L9 L7 L13CE L9ATH L10 L14 L6SP	17 17 18 16 19 110 17 19 17 113CE 19ATH 110 116E 18 168P	Z9 Z10 Z9 Z7 Z9ATH Z10 Z8	R103 R103 R103 R103 R103 R105 R105 R106 R108 R108 R108 R108 R108 R108 R108 R108	R106 R107 R102 R102 R102 R102 R103 R103 R104 R104 R104 R104 R105 R105 R105 R105 R105 R105 R106 R107 R107 R108	45 45 46 46 45 45 45 45 45 45 45 45 45 45 45 45 45	55454566645456555555555555555555555555	P247 P237 P247 P237 P241 P241 P241 P242 P237 P243 P243 P243 P243 P248 P248 P248 P248 P249 P248 P240 P248 P240 P248	P245 P235 P235 P235 P237 P237 P234 P237 P234 P237 P234 P237 P234	PROS PROS PROS PROS PROS PROS PROS PROS

\*Replacement Ring for Factory Installed Insert.

Engines using Propane, Butane or Natural Gas must use Chromatley or Lee-Lite Rings.

#### CASE TRACTORS

			teg.		Pilot	Cast	Iree	Lee-	VALVE		Lee-Lite	K-0 (	Cutter	Soat	Angh			AINDER Es. Pllor
Year	Medel Mak	10	Cyl.	865		Int.		lat.	Esh.	Enb.	Enh.	int.						Pilot Ha
1979.54	C. CC, CE, C1, CO, D. DC, DE, DH, D1, DO, DV, 17-27	_	4	3'in5',	*	13	13	LI3	LI3	J13		R105	R105	45	45	P241	P241	PSS
	L, LA, LAI, LAE, LE, LH, LI, LIH, 26-40	Own	i			18	18	LIB	LIS	113			R107	45		P245	P245	PBS
	R, RC, RO, FC16 Wast		4	3144		7	7	L7	L7·	<b>J7</b>			R102	45		P235		PE3
	V, VC 1/0, VI 5, 5C, 5 , 50, SE	<b>≈</b>	4	3x4'. 3':14	*		58 62	L10 LB	LSB LGP		•	R 103 R 102	2101 2101	30 45		P237 P235	P233 P733	
	VA, VAC, VAI, VAO, VAS, VAH, VAC-14	0	7	3'.43'.		,	**	L7	LSCPH	<b>ISCPH</b>		R 102	R 101	30	45	P235	P233	
1954-59	400, 500, 600, 900 Series Diesel	0	6	415	76	10	SR.	LIO	LIR	j <b>ea</b>	ZBL	R 103	R 102	45		P237	P235	P97
	400 Series, Gas. Dist. LP; 301; 120 Combine 300 Series Gas	Own	4	4x5			104	LIACE		JIOR"		R105	R103	45 30		P241 P235	P237 P233	P97 P84
	300 Series Ces 300 Series Diesel Cent. C	Own. 20157	4	3'.x3'; 3',x4',			5	L7 L7	LSCPH LS	JSCPH			R 101			P235	P231	
1958-60	310 Crawler Tractor, 310, 410 Series Own		4				•	L7	LSCPH	<b>ISCPH</b>			R101	30			P233	
	G610 Crawler Tractor Cont.		6	3,4,	Υ.	10		L10	LSCPH	ISCPH		R103	<b>R101</b>	30		P237		P84
	GB10 Crawler Tractor Cont. 1010 Crawler Tractor Cont. 1		4	4x5'; 4';#6	K.	14C	9 10	L13CE L14C	L10	<b>j9</b> [10	Z9 Z10	R104 R105	R103 R103	30 30		P239 P241	P236 P237	P86 P86
1958-60	2008, 2108, 2118	C126		3'in4'i		7	••	L7	LSCPH	SCPH		R102	R101			P234		
		CI64	4	3'u4'i	%	\$8		LSS	LSCPH	JSCPH		R103	R101	30	45	P236	P232	P84
1958-71	Diesel 700, 800, 730, 730C, 770, 970, 930 Diesel (6 cyl.) A267D, A	AIID		4'a5	%			LIACE	L9BTH10	· MATUIO	ZSETHIO	BIAE	R 103	45	45	P240	P237	P97
1960-71		3010	4	4'.85		17E	12T	LITCE	LIZT	112T	4781 NIV	R105	R 104	45		P241		P97
1960-69	840 Series Gas and LPG A	12045		4'.15	4			L14	L13	j13	Z13		R105	45		P241		
1960-71	430, 470, 530, 630, 431, 531, 570, 631, 640,																	
1960.69	641 Diesel 430, 440, 441 Gas : 530, 530C, 540, 541 LP G359, G	1880		3"444'i 3'44'i		12CE 7	p.K	L12CE L7	L <b>S</b> R LSCPH	j <b>er</b> ISCPH	ZSERS		R102			P238 P234		
1960-71		G159	- 7			ģ	U	L9	LSCPH	(ALT		R103	R 101			P236		
1960-71	630, 630C, 640, 641 Gas and LP, A201G G	1886	4	3"444		10	jų.	Lio	LBR	jar	Z SERS	R103	R102	30				P\$4
1960-71	730, 730C, 740, 400, 600, 700, 800, 900 Series 930,				_													
1066 71	940 (6 cyl.) 970 Gas and LP A2515, A 1200 Traction King Diesel		4	485 41485	n n	17Ç	IOAT	L12E L17C	L10R L10AT	JIOR JIOAT	Z10R10 Z10AT	R104 R106	R103 R104	45 45		P239 P242	P237	P97 P97
	1000 Series Cont		4	4' 116		14C	10		LIO	J10	Z10	R105	R103	30		P241		P36
1970-75	2518G, 3778G Gas		4.6	4=5	",		10R	LIACE		110R	Z10810	R105	R 103	45		P240	P237	
	3018G Ges		4	43ex5		17C	13		L13	J13	<b>Z</b> 13	R 106	R 105	45		P242	PZ40	
	4018D, 2678D Diesel 3368D, 3368DT, 5048D, 5048DT Diesel			4'ex5 4'ex5		14	17 T	L14		i 1.635 x <sup>t</sup> e x 1.946 x <sup>t</sup> e		R 105				P241 P245	P237 P242	P97 P97
	3018D. 4518D, 4518DT Diesel			4'425	,1,7,4		12T	L15T	LIZT	JIZT .	•	R 106	R104	45			P239	
	148G, 159G (31)x41+1			3'.x4'.				LE		Per We		R102	R101	30	45	P235	P233	
	188G, 201G (3%a4'r)		4	3'44'.		10	er -	L10	LBR	Jak	Z84	R103				P237		
1971-75	188D Diesel		4	31-441,	7,	12CE	8R	L12CE	LBR	198	ZBA	R104	R 102	45	45	P238	P.235	PS4
			C	TER	PIL.		1	ACTO	26									
.433.41	28, 10 Auto Patrol, (22-4 x 5) Gas 4	~~~	7			16	12	LI6	L12			R106	R104	45	45	P243	9720	P\$6
	28, 10 Auto Patrol, (22-4 x 5) Gas 4 30, 35, PU, (85, 40, 6500G-5'+x6') Gas 6		7	47:15		18A*	12A		L12 L18A			RIOS	R108				P245	
	50, R5, 11 Auto Patrol Gas 7		4	5':=5':	٧.	26.	24A*	L26				R111	RILL	45				PSS
	65. 70, 9000G Gas 9		4	7×8',		300,	300.					R115	R115				P259	
	R2, 22, 212MG, +Grader 77-66-44, 800G-31s x 4+ Gas 3 R4, RD4, 10 Patrol, 30, 42 +4600G-6 cyl.> Gas 4	400C	4	31.x5 41.x51,	7.	16 20	12A 16	L16 L20	L1ZA L16	<b>J16</b>	Z 16	R106	R105			P243 P247	P241 P243	
		Diesel		5'428		24 <b>8</b>	248	L244	L24R	110	- 14	R110	R110			P251	P251	
	D2 Tractor, 212 Meter Grader Diesel D		4	3'.25	- 1	70	IA	L98	LEA			R103	R103	45	45	P237	P235	
	D2 Tractor, 212 Motor Grader Diesel	D311	4	4n5	ų,	12	12	L12	L12			R104	R104	45	45	P239	7239	P86
1936 47	D4 Tractor, RD4, 42 Grader, 112MG, D321 Auto Eng. D4600 Diesel 0	4400	4	41:251;	ķ	14A	130	L14A	L138	116		R105	R105	45	45	P241	P241	PREM
1947-60	D4 Tractor, 112 Meter Grader Diesel		4			176	16	FIAM	L16	,,•	Z 16°	R106	R106				P243	
	D6 Tractor, DW10, 12 Motor Grader, 48 Grader,																	
	D468 Auts Eng D4400 Diesel D			4'4=5',		14A	130	L14A	L138"				R105	45			P241	
	D6 Tractor, DW10, 12 Motor Grader Diesel D7 Tractor, D6 Tractor, D6600 (3 cyl.) Diesel D		6	4"115"1 5"118		198 248	16 248	L24R	L16 L24R	<b>316</b>	Z16		R106 R110	45 45		P247 P251	P243	
1933-60	DB Tractor, D1700 (8 cyl. Engine) Diesel D1	3000	6	5'-x8		248	248	L248	L24R				R110			P251	1251	
1947-75	D364, D375-8 Cyl.; D8 Pesher, D386, D397, D339, D34			514x8	341			L24Y	L22AY	J22AY	ZZZAY	R110	R110	45		P251	P251	P87M
	D326, D337 (Head 2H3349)		6	Sint	161 161			L20CX	L178X			R109	R107			7247 8245	P247	
	D326, D337 (Head 5H8418, 5H8505, 5H4232) D9 (Head 4H9950) 594	D353	ì	5%=6 6'418	71 71			L27EY4	LITEX LZSEY37			سي	R 1Q7 Spec		30 30	P245 P237	P245 P235	
1960-75	D4, D6 D330,	0333	4,6	4',25'1	4			LIBCX	LIGHX				R 105	30	30	P243	P241	
	D9, D9C, D353D, D379A, D398A, G353, G379, G398,	0377		6'8						2's to 2's s			R110			7251	7251	PETL.
1960-71 1960-69	D311H, D320 and 922			4x5 5"a <b>46</b> ",						17-10-17-a 15-10-15-a				30		P240 P243	P238 P240	
1960-89			-	2"meg,						i∿ to l'∍ a l			2104			P240		
	D337F + Head 7ME1501, D337 + Head 5HE5111		6	5'•=8	16:	Int. I	's to 1'	% x 2.1675	x 'u; Enh.	PS to Pain	1.900 x %			30	30	P245	PZ43	PS7L
1972-75	3406 Series .			5.4161	٠,	iet. I	Pa x F	"% x 3455;	Esh. 1%	t 1% x 36	5	R105	<b>R104</b>	30	45	P240	<b>†238</b>	MSL
#R216M2	Reseater Pilot must be used. Special production taper	red rim	<b>di</b> 344	elable.														
	CHEVRO			UTO	101		<b>18.</b> 1	MUC	(S AM		ES.							
1937 44	All Cars and '1-ton Trucks, Thrift Master	<del></del> -	4	31,43%		12C	,	LIZCE		p DOO	Z1	9104	R102	30	3/1	9730	P235	<b>M</b> 4
		H.P.	i	3,113,1		12C	;	LIZCE		P C	Z9		RIOS	30		P239	P237	
1950-51	All Cars, Thrift Master Trucks	Own	6	3'w3'\	*	12C	ŧ	LIZCE	LS.	<b>J</b> E	ZB	R104	R102	30	45	P239	P235	P84
		H.F.	6	3'-u3".	4	148TH			U	<b>j</b> 9	Z9	R106	R103	30	45	P243	P237	P84
		Own	6	3',13%		12C 12	,	L12CE		<b>P</b>	Z9		R 103			P239	P237	
		Own	•	3'113'i 3'123''.		12 148T)	-	LIZE	L9 L9ATH	J9ATH	<b>Z9</b>		R103 R103	30 30		P239 P243	P237 P237	
		Own	i	413%	×		7	LISE	L7	77	*******		R 102			P240	P234	
1958-61	348 Engine (Without Factory Soat) Passenger	<del></del>		4'623'6		19C			LI3CE	J13CE		R107	R107	45	45	P245	P239	P85
	348 Engine (Heavy Duty Trucks) "" Esh, First Series			41623%	×	176		LISE	L12CH20				R107	45		P245	P239	
1758-61	348 Engine (Heavy Duty) 'u' Exh. Second Series			4'ix3%	"	170		LITC	L9HT20								P236	
_	•	_									• 8	سمء دامه	ant R		u Fa	1	na Palle	d Insert

'Replacement Ring for Factory Installed Insurt.

Engines using Propose, Butane or Natural Gas must use Chromoliey or Lee-Life Rings.

#### CHEVROLET AUTOMOBILES, TRUCKS AND BUSES (Cont.)

		CHEVROLE! A		UMIUI	DIL.		IRU	UND		POSES	1000	•/						
			Eng.		Pilot	Cast	Îron	Lee-	VALVE Alloy	SEATS Chromator	y Lee-Lite	K-0 (	Cutter	Seat	Angle	Si Crind		RINDE Ex Pilo
Year	Model	Make	Cył.	165	Size	Int.	Exh.	ist.	Exh.	Exh.	Exh.	înt.	Exh.	let.	Exh.	Int	Exh.	Pilot N
1955-67	All Cars, Trucks, V-8 Engines 26	5, 283 /3½x3: Own		3413	٧,			L16E	L9ATH	J9ATH	*****	R105					P237	P84
	High Torque H. D. Truck 348 (4%		8	45,231	*	19C	1.7842	LISC	L13E		7511304	R109	R105			P245	P240	PB5
	Corvair (R211M2 Reseater Pilot) Corvair 140 H.P. Engine Int. 1%		6	3%x2% 3%x2%		Intak	1 L7RH5 78	O. ot T	/XH50 L7R		Z5H30°	R107	R100 R102		45 45	P234 P240	P232 P234	P\$45
	153, 194, 230, 250, 292 (292 tal.		-	3713%			9	L14CE		19	<b>Z9</b>	R105	R103	_	45	P240	P236	P84
	283, 327 (300 H.P. requires 19E	intake)	8	4x3%	*		9	L16E	L9	19	Z9	R 105	R103		45		P236	P84
	Turbo-Fire 409 Passenger			34,44%	*	21		121	L14E		70	R109			45		P241	P85
1973	307, 327 307 Passenger & L.D. Truck (C, )	K P Touch IVAH Int Bine!	8	3%x3% ?'ix3'.	% <u>.</u> %	19E	9 98 R	LIACE	LSBR	)9 )988	Z9 Z9Bk	R105 R106			45 45	P240 P243	P236 P237	P84 P84
	396, 402, 427, 454 (Passenger)	n, r rioca, jritt itt. ning.	8	4523%		ZIDR	,		LIACE	,,,,,		P.106			45		P236	
1969-75	350 Engine 255 H.P. and 300 H.F	•	8	4×3×4	14	19E	98		L98			R106			45		P237	P84
	350 Engine 350 H.P.		8	4#3"M	1/4	208	12CE		LIZCE	J12CE	ZIZCE	R107			45	P245	P238	P84
	53 Series GMC (2 Valves) 53 Series GMC (4 Valves)			3%x4% 3%x4%	¥.				LSE	J8E J28TH30			R 102 Spec	60	60 60		P234 P239	
1960-65	GMC 351, 401, 478, 637 1% Exh	laust)		41,13%		21 DR			L16H10	120		R108	R106	30		P247		P85
	GMC 351E, 351M, 401M, 478M	(51/4x3%)		4%±3%		22R				17H		R109	R106		-		P243	P85
	350 Engine, 350 LP Cas	5. 400 P = 4.1 100 F F L	8	4'4x3% 4'4x3%	" "	14H 19E	98R 12CE	L14H	L9BR L12CE	J98R J12CE	Z98R Z12CE	R105			45 45		P237 P238	P84 P84
	400 Eng. 265 H.P., 1971-73 (Truc 454 Engine, Gas and LP (Int. Se			4'-125	152 14		12CE		LIZCE	116BTH	21200	R108			45		P242	
1971.75	140 L4 Vega	at nadants no 1 so such		3'1x3%			,		L8E	JBE		R104				_		
	250, 292 Engine 137sx41s1			3'4x3'%			90 R	L14H		J984	Z98R	R105				P241	P237	
	250 Engine (L56) Int. 1%ul'int		8 R	3'ex3''z			98TH	LIBE	L98TH L13	J98TH [13	Z98TH Z13	R105				P241 245	P237	<b>P84</b> P85
	366, 427 Truck Gas 1427 takes 366 LP Gas	ILAE WELL	-	45x3% 4x3%	, ,				Z17C	J120HU12		R106				P242		
	model uses 194, 230, 283, 327 eng	ines NOTE H. D. truck 3				harder	ed seats											
			CI	IRYS	ı Fi	- 4	LITOE	HOR	II FE									
1942.48	C34, C38	Own		3'w4's		HC.	<del>•</del> "	L14C	L10810		Z10810*	R105	R 103	45	45	P240	P218	P84
	C23 4-6-7, C30 3-5-7-9, C40-6		8	3'444'	1/2	10	781	L10	L78R			R103	RIOZ		45		7235	P84
	C45, C48, C51, C60-1, C60-2	Own	6	3'4x4' 1	"	12	112	L12	L10R10		Z10R10	R104	R103		45	P239	P238	P84
	C52, C53, C54, C55, C56-1, C56-		8	31435	-	14	ETR	L14	LITE	JUIR	ZIIR	R105	R104	45	45	PZ41	P238	P85
	C63, C64, C66, C68, C69, C70 C67, C71, (33x31x)	Own V	1	3'3'.	ų.	16	10	L19D L16	L16CU	110	Z10	R107 R106	R106 R103	45 45	45 45	P245 P243	P242 P237	P85
	C72, C72-300	Own V	8	315.03%				L190	L16CU	,		R107	R105				PZ4Z	P85
	CTS, LC1, LC2			3" .x3'ı			11R	L190	LIIR	j11R	ZTIR	R 107	R 104	45		7245	PZ38	P85
	C76, C76-300, LC3, LY1 Impena MC1, MC2, PC1, PC2	1	Į R	4x3**;; 4°;;;;3*;	٠, ۲			L190	L16CU L13CE	113CE		R107 R106	R 105 R 104	45 45	45 45	P245 P243	P242 P239	PB5
	MC3, MY1, PC3, PY1		i	45.235		21 DR		2170	LISCE	113CE		R108	R104		45		P239	PRS
1961-67	All Models and Imperial 440 Power	er Pac∃Exh 17E!	8	4543%		ZIDR			LI3CE	113CE		R 108	R104		45	P247	P239	P85
	All Models 383 and 440 Engine			4"413%		ZIDR			LIGUE			R108	R105		45	P247		P85
	360 Engine 400 Engine	•	8	4x3 58 4 34x3 3	". 18 ".	16 21 DR		L16	L12CE L168	J12CE J16B	Z12CE	R106 R108	R104 R105	45 45	45 45		P238 P241	P85
		CH	IBV	e: F=			e TDI		иотоі									
1950-56	14A, 22A - 454554	Owa Owa		3'ix5	i ir	100	) I KI	AL .		114CY57	Z14CY57		Spec	45	45	P243	P241	PBS
	15A M49 MAJESTIC	Own		4±5	4					114CY57	Z14CY57		Spec	45			P241	P85
1950-60	18A 19A, 54 - 31ax3****	Own		3'43'6		140		L14C	LSRH10		Z8RH10		R102	45		P241	P235	P85
	24A, 56A	Own Own	6	3'483% 3'543'6	34 34	168 19E		L19 J <b>19E</b>	L89H10	J168Y57	Z8RH10 Z16BY57	R105	R102 Spec	45 45	45 45	P241 P247	P235 P243	P85
	34, 36 +4'ux5'ui	Own		3"\43".				L16B		114CY57	Z14CY57		Spec			P243		P85
	5A M46 ACE, M46 ACE Spec. 1.			3'.x45	-	98 R		L98R	LERHIO	•	ZBRH10		R102			PZ37		P84
	BA M47 Crown, M47 Crown Sp H170, H225 (3'5st45)	pec 16A, 3Z Own	6	3%x4% 13%x3%		14C []	7	L14C L11	L10R10 L7	J10R10	ZIORIO		R103			7241	P237	764
	H318, HT318			375x3%		14A	'	L14A	LIZCE	7  12CE	Z12CE	R104 R106	R 102 R 104	45 45	45 45	7238 7243	P234 P238	PB5 PB5
	H361, H383 (41,131,1), H413 (45,	a3',	ì	4'4x3K	*	19		L19	L13CE	HICE		R107	R104	45	-		PZ38	PB5
	HT361, HT413 43434 , HC426	% Exhaust		4'4235	*			LIBE			Z9#U		R103				P237	P85
	. H440. Engine it on Engines 14A, 15A, 22A, 34, 3	36	В	47ux312	4	21 DR			L16BE			R 108	R105	45	45	P247	P241	P85
			KS	HUTT	A	ND	CO-0	P T	RACT	DRS								
		AFTER 1967 DETERMINE	ENG	NE MAI							S LISTING	3.						
1946-58 1946-58	20 30 (8U48153) 40 (8U68230) 50(	Cont. F140 C. (BU6B273)		3%x4% 3%x4%	ሤ	10 10	6	L10	L5CPH L6	J5CPH J6			R101			P237 P237		P84 P83
1953-58		BU 6DA273		3'.x4'.		14C	8R	LTIC	LBR	J8R	ZSR		R102	45				PES
1956-61	35, 550, 570, 16 cyl.1 Cas and Did		4	31, 14',	¥,	12	BBR	LIZ	LBBR	-		R104	R103	45	45	7239	PZ37	P85
1960	560 Diesel		4	4141414		17C	11	LITC	LII	15.55			R104	44		P241		P85
	540 Cas	Cont. F162		3%x44 34x34		10 9	BR	L 10 L 9	L5CPH LBR	J5CPH  8R			R101 R102			P237 P236		P84 P85
	550, 660 Diesel			31x34	¥		6P	L9	L6P	law			R101			P236		P85
960-67	770, 1550 Gas and LP. LP must	use   or Z rings)	6	3'123%	*		68 R	u	L6DR	68R	Z68R	R102	R 102	45	45	P235	P234	P85
	770 Diesel			3'1x3K	¥		47	L6P	L4P		745		R100			P233		P85
	880 Cas and LP (LP must use ) : 880 Diesel	er & rings?		314x4 314x4		10 10	BR	L10 L10	LSR	jar	Z&R Z3AT		R 102 R 101			P237 P237		P85 P85
	1600, 1650 Gas and LP (LP most	use I or Z rings)		3'ax4		10	8	L10	LE	J8	Z8	R103	RIOZ			P237		PB5
1962-67	1600 Diesel	•	6	31.x4	*	10	4P	L10	L4P	,-			R100			P237		
	1800 Gas and LP (LP must use )	or Z rings1, 1850 (3%x4%)		3'•x4	*		10	L13CE		J10	Z10	R104	R 103	45	45	P239	P237	PB5
	1650, 1800 Diesel 1900, 1960 Diesel (A. values was a	al. CMC 453		3'-x4	¥.		7R	LI3CE		17		R104		45		PZ39		
	1900, 1950 Diesel (4 valves per c) 1850 Diesel	yl.		3%x4% 3%x5	K.		7 88	L14E	L7 188	<b>į</b> 7		RINE	R102	45	60 45	P241	P234	
	1550 Diesel			3',13%	¥	6P	47	L6P	L4P				R100			PZ33		
	1550 Diesel			3'18314	4		4A .		L4A							P236		
B la	ment Bing for France Installed to																	

\*Replacement Ring for Factory Installed Insert

Englines using Propane, Butane or Natural Gas must use Chromalioy or Lee-Life Rings.

#### CONTINENTAL MOTORS

									VALVE					-			EAT C	
Yeer	Medul	Make	Eng. Cyl.	165	Pliet	Cast	Iron Fab	Lee let.	A <b>lley</b> Exh.	Chromaffoy Exh.	Lee-Lite Esh.	K-OC				Cried		
_						144.												_
	22R, 33R, 33R-PR501, 35R501		•			19	16	`L19	L16	)16	Z16	R10\$	R106	30 30		P247 P239		76 78
	A244, A6244 B371, B6371		6	3%x4% 4%x4%	X X	12 18	7 138U	L12	L7 L138U	<b>j7</b>	Z138U*	R104 R107	R102 R105	30		P245		и
	8405. 86405		6	4%x5	*	18	138U	LIM	F13BO.		Z1380.	R107	R105	30		P245		н
	B4Z7, B64Z7		6	4ka4%		is.	138U	LIE	L138U		Z130U	R107	R105	30	45	PZ45	P241	71
	E201, ED201		6	34x4%			78	L9	L7R			R103	R 102	30		P237	P235	P
-64	F124 (1% head valve)	Own	4	3x4%		10	6CR	L10	L5CPH	J5CPH		R103	R101	30		P237	P233	P
-64	F124, F106, F4124, F6106, PF124	Own	4,6	3=4%	<b>%</b>	10	7	L10	L7	[7		R 103	R102	30	45	P237		PI
	F140, F209, F4140, F6209 [13% head valve]			3%x4%		10	6CIL	L10	LSCPH	/SCPH		R 103	R101	30		P237	7233	P
	F162, F4162, PF162, (1% head valve)			3%±4%		10	6CR	L10	L5CPH	SCPH			R101	-		P237		M
	F218, F6218-2nd series	Own	6			10	7	L10	L7	<u> 17</u>		R 103	R102	30		P237		Z
-75	F226, F6226, F227, F6227	Own		3544%		10	7	LIO	L7	J7		R 103	R102		-	P237 P237	P233	Pi Pi
-/2	F244, F6244, F245, F6245, F135(4) 3%x4% FO-6226, F06245 (3%x4%)	Own Own	6		*	10	<b>67</b> 9	LIO LISBE	16P 19	 19	Z9	R103 R105	R101	30 30		P241	P236	,
	G157, GD157, G134 (3½x4%)		2			7	5	L7	LS	17		R102	R101	30	45	P235	P233	71
	G176		•	3%a4X			,	L7E	L5CPH*	ISCPH*		R102	R101	30	45	P234	P233	P
	G193. G4193			3%x4%		13	2	LI3	u	J4	Z\$	R105	RIOZ			P240	P235	P
	H227, H243 (3%x5%) H260 (3%x5%) H277	Own	4	3162514		13	98R	L13	L98R	198R	Z98R	R105	R103		-	P241	P237	P
	HD243, HD260, (3%x5½+ Diesel	Own	4	3%x5'4	X,	10	81 R	L10	LSOR			R103	R103	45	45	P237	P237	P
	J382	Own	4	4' .x6		16C	13T	LISC	L13T	)13T	Z13T	R106	R105	30		P243	P240	P
	JD3#2	Own	4	41,25		14C	10	L14C	L10	j10	Z10	R105	R103		45	P241	P237	P
	K6271 (K6290-3½x4%), (K6330-4x4%)	Own	6			16	HT	L16	LIIT	JUT			R104	30	45	P243	P239	P
	KD330	Own	4		74	14	96 R	L14	L90R	/98R	Z98R	R 105	R 103	45	45	P241	PZ39	
	L6478	_	6	4Xa4%	_	ZIDR	17D		L17D			R 106	R106	_	45	P247	P243	7
	M253, M6253 (M271, M6271-34x44)	Own	6				117	L16	LIIT	JUT.		R 106	RIDA			PZ43	P239	7
	M290, M6290 (M330, M6330-4x44) M363, M6363		6			16	IIT	L16	LIIT	JUIT		R106	R104			PZ43	P239	•
	N50, N62	Own Own	4	2')#3'; 4',#5';		1 22	1 188x	L1 L22	L1 L188X		Z188X:	R732 R109	R732 R108			P227 P251	P227 P245	P
	R513, R6513 (R572, R6572-4½x5%) R602, R6602, (R584, R6586-4½x5%)	Own	•	41,153		22	IBBX	122	LIBBX		Z188X	R109	R108			P251	P245	P
	RD572, RD6572 Diesel	Own		47:15%		20	1611	120	LIGU		21007	R108	RIGS			P247	P243	
	5749, \$6749 (\$6820-5'4±5'i)	Own		5,122,1		27	22A	127	LZZA			R112	R110			P255	1251	P
	5749, \$6749 (\$6820.51;±51;) \$D802, \$D6802 Diesel	Own				26	21D	L26				R313	R108			P251	P247	
	T371, T6371, (T6427-4%x4%), TD427, TD6427	Own	6	4' (#4%		18	138U	L18	L13BU		Z138U	R107	R105			P245	P241	P
	U6501, U501		_	4'115%		19	16	LI9	L16	j16	Z16	R106	R106	30	45	P247	P243	P
	V603, V8603	Own	i	4%x4%	*	27C	20	· 27C	L20	•		RITT	R108	30	45	P255	P247	7
	Y69,Y4069,Y91 (Y4091-2%±3°+) (Y112,Y4112-35±3		4	2',13',	K,	5	2	L5	LZ.			R101	R99	30	45	P233	P229	P
	Z120		4			28 P	2BP	LZDP	L28P			R736	R736			P228	P228	P
	Z129	Own	4	3Xx3X			4P	L6	L47			R 101	RICO			P233	P231	P
	Z134		4	3%x3%			47'	L6	L4F			R101	R 100	30	45		P235	M
	ZD129 L478, LD478 Diesel	Own	4	3%33%	THE R		28H	L6P										- 71
	L478, LD478 Diesel		6	Part%			188X	122	F188X.		Z188X	R101 R109	R99 R108	45 30		P233 P251	P228 P245	
			6						L1##X°									
			CU	MMII	% <b>NS</b>	22 DIE	IJJX	ENGI	NES		Z188X	R109	R108	30	45	P251	P245	M
	A Sories: AA, AA1, A1, A1P, AM, J Sories (2 Valve	Owa		MMII	% <b>NS</b>	22	188X	L22		Jun		R109		30	45	P251	P245	P
		Owa	CUI 4	MMII	4 4	22 DIE	IJJX	ENGI	NES		Z188X	R109	R108	30	45 30 30	P251 P239 P245	P245	PI
-66 -73	A Series: AA, AA1, A1, A1P, AM, J Series (2 Valve H Series: HB, HBI, HBIS, HBS, HI, HIP, HIS, HM, HMS, HP, HPS, HR, HS Series HR Series: HEB, HBBI, HRI, HBM, HPR, HRS	Own Own	CUI 6	45,24% MIMI 11 425	**************************************	DIE:	SEL.	ENGI	NES LIIR		ZIBBX	R109 R104 R107	R104	30 30	45 30 30	P251	P245	PI
-66 -73	A Series: AA, AAI, AI, AIP, AM, J Series 12 Valve H Series: HB, HBI, HBIS, HBS, HI, HIP, HIS, HM, HMS, HP, HPS, HR, HS Series HR Series: HRB, HRBI, HRH, HPM, HPR, HRS NH Series: NHB, NHBI, NHBIS, NHB, NHB, NH	Own Own HS,	CUI 6	4x24%  MINUIT  4x5  4%16	**************************************	22 DIE: 11R	BEL. IIR	ENGI LIIR LIIR	NES LIIR LII		ZIBBX ZIFR ZIFR	R109 R104 R107	R104	30 30	45 30 30	P251 P239 P245	P245 P239 P245	PI
-66 -73	A Series: AA, AAI, AI, AIP, AM, J Series (2 Yelve H Series: HB, HBIS, HBS, HB, HIP, HIS, HM, HMS, HP, HPS, HR, HS Series HB Series: HBB, HBBI, HRI, HBM, HPR, HRS HH Series: NHB, NHBI, NHBIS, NHB, NHI, NI NHM, NHMS, NHP, NHPS, NHRBS, NHRBS, NH	Own Own HS, HRIS,	CUI 44 45	45 45 45 55 45	¥ % %	22 DIE: 11R	BEL. IIR	ENGI LIIR LIS LIS	NES LIIR LII		ZIBBX ZIFR ZIFR	R109 R104 R107	R104 R107 R107	30 30 30	30 30 30	P239 P239 P245 P245	P245 P239 P245 P245	PI
-66 -73	A Series: AA, AA1, A1, A1P, AM, J Series (2 Valve H Series: HB, HBI, HBIS, HBS, HI, H1P, HIS, HM, HMS, HP, HPS, HR, HS Series HR Series: HRB, HRBI, HRI, HRM, HPR, HRS NH Series: NHB, NHBI, NHBIS, NHBS, NHI, NI NHM, NHMS, NHP, NHPS, NHRBIS, NHRBS, NI NHRPS, NHRS, NYM, NYMS, NMS, Ser, Y7-12, NT	Own Own HS, HRIS, D Own	<b>CU</b> I 6 4,6 6,12	45x45 4X5 4X16 5X16 5'16	¥ * * * * * * * * * * * * * * * * * * *	22 DIE: 11R 18	BEL IIR 18	ENGI 1111 118 118	NES L11R L11 L11	<b>J118</b>	ZIBBX ZIFR ZIFR	R109 R104 R107	R104	30 30 30	45 30 30	P239 P239 P245 P245	P245 P239 P245	PI
-66 -73 -73	A Series: AA, AAI, AI, AIP, AM, J Series 12 Velve H Series: HB, HBI, HBIS, HBS, HI, HIP, HIS, HM, HMS, HP, HPS, HR, HS Series HR Series: HRB, HRBI, HRI, HRM, HPR, HRS NH Series: RHB, NHBI, NHBIS, NHBS, NHI, NI NHM, NHMS, NHP, NHPS, NHRBIS, NHRBS, NI NHRPS, NHRS, NYH, NYHS, NHS, Ser, YY-12, NT Seme models require eart L14CT30, 114CT30, or Z	Own Own HIS, HRIS, O Own 14CT30 R	<b>CU</b>   6 4,6 6,12 ings v	MINULY 4x5 4½x6 5½x6 5½x6 hich are	15 16 16 16	DIE: IIR IS	188X BEL 11R 18 18	ENGI L11R L18 L14J30 except a	NES L11R L18 L11 L11 CL1430° depth of S	<b>J118</b>	ZIBBX ZIFR ZIFR	R109 R104 R107 R107	R104 R107 R107	30 30 30	30 30 30	P239 P245 P241	P245 P239 P245 P245	PI PI
-66 -73 -73	A Series: AA, AAI, AI, AIP, AM, J Series (2 Valve H Series: HB. HBI, HBIS, HB, SH, HP, HIS, HM, HM, HMS, HP, HP, HIS, HM Series: HRB, HRBI, HRI, HRM, HPR, HRS SH Series: HRB, HRBI, HRBI, NHBIS, NHR, NH, NHM, NHM, NHMS, NHP, NHRSIS, NHRBS, NI NHM, NHMS, NHP, NHPS, NHRBIS, NHRBS, NI NHRPS, NHR, NYM, NYMS, NHS, Ser, YT-12, NT Some models require our L14CT30, J14CT30, or Z L Series: LT, LM, LP, K, KO, LR (7):x10	Own Own HS, HRIS, O Own 14CT30 R	6,12	MINITED 4x5 4½x6 5°x16 6chich are	NS 1	22 DIE: 11R 18	188X BEL 11R 18 18	ENGI L11R L18 L14 30 except a L319	NES LITE LITE LITE LITE LITE LITE LITE LITE	<b>J118</b>	ZIBBX ZIFR ZIFR	R109 R104 R107 R107 R105 R115	R104 R107 R107 R105 R115	30 30 30 30	45 30 30 30 30	P239 P245 P245 P241 P259	P245 P239 P245 P245 P241 P259	PI PI PI PI PI
-66 -73 -73 -64 -73	A Series: AA, AA1, A1, A1P, AM, J Series (2 Velve N Series: HB, HB1, HB1S, HB5, HI, H1P, H1S, HM, HMS, HP, HF5, HR, HS Series: HRB, HRB1, HRB1, HRB1, HRB1, HRB5, NH1, NH Series: NH8, NH81, NH85, NH, NH85, NH, NHM, NHMS, NHP, NHRS, NHRB1, NHRB5, NHR, NH, Series: LACT30, L14CT30, er Z L Series: LT, LM, LP, K, KO, LR 17';x10' JN and JT Series, C and J Series (4 Velve "S' Pilet' NH, NT, V12 (55-), V6 (VilM), V8 (VINE)	Own Own HS, HRIS, O Own 14CT30 R	6,12 6,12 6,6	MINULY 4x5 4½x6 5½x6 5½x6 hich are	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DIE: IIR IS	188X BEL 11R 18 18	ENGI L11R L18 L18 L14J30 except a L318 L7C	NES L11R L18 L11 L11 CL1430° depth of S	<b>J118</b>	ZIBBX ZIFR ZIFR	R109 R104 R107 R105 R115 R102	R104 R107 R107	30 30 30 30 30	45 30 30 30 30 30	P239 P245 P245 P241 P259 P235	P245 P245 P245 P241 P259 P235	Pi P
-66 -73 -73 -64 -73 -73	A Series: AA, AA1, AI, AIP, AM, J Series (2 Valve H Series: HB. HBI, HBIS, HB, HP, HP, HIS, HM, HM, HMS, HP, HP, HIS, HM, HMS, HP, HP, HR, Series: HRB, HRBI, HRI, HRM, HPR, HRS NH Series: HHB, NHBI, NHBIS, NHRS, NH, NHM, NHM, NHMS, NHP, NHRSIS, NHRBS, NH, NHM, NHM, NHMS, NHY, NHS, Ser, VT-12, NT Some models require our L14CT30, J14CT30, or Z L Series: LT, LM, LP, K, KO, LR, 171-3101 JN and JT Series, C and J Series: (4 Valve "& Pilet: NH, NT, V12 (5'5), V6 (VIM), VE (VINE) "L Valve Engines Require R214P15 Pilot	Own Own HIS, HRIS, O Own 14CT30 R Own Own	6,12 6,12 6,12 6,12	MIMIT  4x5  4½m6  51,166  Aich are 7x10  44x5	NS N	DIE: IIR IS IS 31A	188X 11R 18 18 L14/30 31A	ENGI L11R L18 L18 L14 30 except a L319 L7C L17D	NES LITE LITE LITE F LI4BOF depts of % LITE LTC	<b>J118</b>	ZIBBX ZIFR ZIFR	R109 R104 R107 R107 R105 R115 R102 R106	R104 R107 R107 R105 R105 R105	30 30 30 30 30 30	30 30 30 30 30 30	P251 P239 P245 P245 P241 P259 P235 P243	P245 P239 P245 P245 P241 P259 P235 P243	PI PI PI PI PI PI PI
-66 -73 -73 -73 -73 -73	A Series: AA, AA1, A1, A1P, AM, J Series (2 Velve N Series: HB, HB1, HB1S, HB5, HI, H1P, H1S, HM, HMS, HP, HF5, HR, HS Series: HRB, HRB1, HRB1, HRB1, HRB1, HRB5, NH1, NH Series: NH8, NH81, NH85, NH, NH85, NH, NHM, NHMS, NHP, NHRS, NHRB1, NHRB5, NHR, NH, Series: LACT30, L14CT30, er Z L Series: LT, LM, LP, K, KO, LR 17';x10' JN and JT Series, C and J Series (4 Velve "S' Pilet' NH, NT, V12 (55-), V6 (VilM), V8 (VINE)	Own Own HIS, HRIS, O Own T4CT30 R Own Own	6,12 6,12 6,12 6,12 6,12	4%x4%  MINUTE  4x5  4%x6  5%x6  chich are 7x10 4%x5 5%x5  5%x5	% % % % % % % % % % % % % % % % % % %	DIE: 11R 18 18 117 17D	188X BEL 11R 18 18 18 18 17D	L122 EINGI L11R L18 L14 30 except a L318 L70 L17D L17D L17D	NES LITE LITE LITE depth of % LSTE LITE LITE LITE LITE LITE LITE LITE LI		ZIBRX ZIBR ZIBR ZIBR	R109  R107 R107 R107 R105 R115 R102 R106 R106	R104 R107 R107 R107 R105 R106 R106 R106	30 30 30 30 30 30 30 30 30	30 30 30 30 30 30 30 30 30	P239 P245 P245 P246 P259 P235 P243 P243	P245 P239 P245 P241 P259 P235 P241 P259 P235 P243	
-66 -73 -73 -64 -73 -73 -73 -73	A Series: AA, AA1, A1, A1P, AM, J Series (2 Velve H Series: HB, HBI, HBIS, HBS, HI, HIP, HIS, HM, HMS, HM, HMS, HM, HMS, HR, HRS, HR, Series: HRB, HRBI, HRI, HRM, HPR, HRS HM Series: NHB, HRBI, HRBIS, NHBS, NHI, NI NHM, NHMS, NHP, NHPS, NHRBIS, NHRBS, NI NHRPS, NHRS, NYN, NYMS, NMS, Ser, V7-12, NT Seme models require ear L14CT30, J14CT30, or Z L Series; LT, LM, LP, K, KO, LR 17:x10: JN and JT Series (2 and J Series (4 Valve "5 Pilet' NN, NT, V12 (55), V6 (VIM), V8 (VINE) NN, NT, V12 (55), V6 (VIM), V8 (VINE) V2 265 Engines Require R214P15 Pilot	Own Own HIS, HRIS, O Own T4CT30 R Own Own	6,12 6,12 6,12 6,12 6,12	4%x4%  MINUTE  4x5  4%x6  5%x6  chich are 7x10 4%x5 5%x5  5%x5	% % % % % % % % % % % % % % % % % % %	DIE: 11R 18 18 117 17D	188X BEL 11R 18 18 18 18 17D	L122 EINGI L11R L18 L14 30 except a L318 L70 L17D L17D L17D	NES LITE LITE LITE depth of % LSTE LITE LITE LITE LITE LITE LITE LITE LI	μ <b>ι</b> ι -	ZIBRX ZIBR ZIBR ZIBR	R109  R107 R107 R107 R105 R115 R102 R106 R106	R104 R107 R107 R107 R108 R108 R108	30 30 30 30 30 30 30 30 30	30 30 30 30 30 30 30 30 30	P239 P245 P245 P246 P259 P235 P243 P243	P245 P239 P245 P241 P259 P235 P241 P259 P235 P243	PT P
-66 -73 -73 -73 -73 -73	A Series: AA, AA1, A1, A1P, AM, J Series (2 Velve H Series: HB, HB1, HB1S, HB5, HI, H1P, H1S, HM, HMS, HP, HF5, HR, HS Series: HRB, HRB1, HRB1, HRB1, HRB1, HRB5, NHR, HB5, NHRB5, NHRB1, NHMB5, NHRB5, NHR, NHRS, NHR, NHR, HE, KB, KB, LB, TIPTIACTIO, JR Series: LT, LM, LP, K, KO, LR 171,x101 JR Series: LT, LM, LP, K, KO, LR 171,x101 JR Series: LATE,	Own Own HIS, HRIS, O Own T4CT30 R Own Own	6,12 6,12 6,12 6,12 6,12	4%x4%  MINUTE  4x5  4%x6  5%x6  chich are 7x10 4%x5 5%x5  5%x5	% % % % % % % % % % % % % % % % % % %	DIE: 11R 18 18 117 17D	188X BEL 11R 18 18 18 18 17D	L122 EINGI L11R L18 L14 30 except a L318 L70 L17D L17D L17D	NES LITE LITE LITE depth of % LSTE LITE LITE LITE LITE LITE LITE LITE LI		ZIBRX ZIBR ZIBR ZIBR	R109  R107 R107 R107 R105 R115 R102 R106 R106	R104 R107 R107 R107 R105 R106 R106 R106	30 30 30 30 30 30 30 30	30 30 30 30 30 30 30 30 30	P239 P245 P245 P246 P259 P235 P243 P243	P245 P239 P245 P241 P259 P235 P241 P259 P235 P243	Pr
-66 -73 -73 -73 -73 -73	A Sories: AA, AA1, AI, AIP, AM, J Sories (2 Valve H Sories: HB, HBI, HBIS, HBS, HI, HIP, HIS, HM, HM, HMS, HP, HP, HS, Sories: HRB, HRBI, HRI, HRM, HPR, HRS SORIES: HRB, HRBI, HRBI, HRBS, NHBS, NHI, NI HM, NHM, NHMS, NHPS, NHRBS, NHRB, NI NHM, NHMS, NHRS, NHVB, NHS, Ser, VT-12, NT Some models require our L14CT30, J14CT30, or Z L Sories: LT, LM, LP, K, KO, LR (17): x100 JN and JT Sories (2 valve "% Pilot NH, NT, V12 (5%), V6 (VIM), V8 (VINE) "% Valve Engines Require R214P15 Pilot VB 265 Engine V6 (VAL), V8 (VALE) 57,x4%	Own Own HIS, HRIS, O Own T4CT30 R Own Own	6,12 6,12 6,12 6,12 6,12	4%x4%  MINUTE  4x5  4%x6  5%x6  chich are 7x10 4%x5 5%x5  5%x5	% % % % % % % % % % % % % % % % % % %	DIE: 11R 18 18 117 17D	188X BEL 11R 18 18 18 18 17D	L122 EINGI L11R L18 L14 30 except a L318 L70 L17D L17D L17D	NES LITE LITE LITE depth of % LSTE LITE LITE LITE LITE LITE LITE LITE LI		ZIBRX ZIBR ZIBR ZIBR	R109  R107 R107 R107 R105 R115 R102 R106 R106	R104 R107 R107 R107 R105 R106 R106 R106	30 30 30 30 30 30 30 30	30 30 30 30 30 30 30 30 30	P239 P245 P245 P246 P259 P235 P243 P243	P245 P239 P245 P241 P259 P235 P241 P259 P235 P243	PE P
-66 -73 -73 -64 -73 -73 -73 -73 -73 -73 -73	A Series: AA, AA1, A1, A1P, AM, J Series (2 Velve H Series: HB, HBI, HBIS, HBS, HI, HIP, HIS, HM, HMS, HM, HMS, HM, HMS, HM, HMS, HR, HRS, HM, HMBIS, HR, HRS, NH, Series: HB, HRBI, HRI, HRM, HPR, HRS, HM Series: HB, HMBI, MHBIS, NHRBS, NI, NHM, NHM, NHMS, NHP, NHPS, NHRBIS, NHRBS, NI, NHM, NHMS, NHP, NHPS, NHRBIS, NHRBS, NI, NHM, NT, LICT30, JZ L Series: LT, LM, LP, K, KO, LR 17 1210 JN And JT Series (2 and J Series: 44 Valve "% Pilot: NI, NT, V12 (5%), V6 (VIAI), V8 IVINE! "% Valve Engines Require R214P15 Pilot: V2 265 Engines V6 (VAL), V8 (VALE) 51,x4% KT, KTA Pilot: R216M2 Required	Own Own HIS, HIIS, O Own 14CT30 R Own Own Own	6,12 6,6 6,12 6,12	Wind 17 4x5 44x6 55x6 55x6 45x6 55x6 55x6 65x6 6	% % % % % % % % % % % % % % % % % % %	DIE: IIR IS IS IS ITD	SEL. 11R 18 18 17D 17D 12CE ake and	ENGI L11R L18 L18 L14 30 except a L318 L7C L17D L12CE Exhaust	NES L118 L13 L1430° depth of 5 L318 L7C L17D L17C L17C L17C L17C L17C	)12CE   12CE   x 2'+ x %	ZIIR ZIIR ZIER ZIER ZIER	R109  R104 R107 R107 R105 R115 R106 R106 R109	R104 R107 R107 R105 R105 R106 R106 R106 R109	30 30 30 30 30 30 30 30 30	30 30 30 30 30 30 30 30 30	P239 P245 P245 P245 P247 P258 P238 P247	P245 P239 P245 P241 P259 P235 P243 P243 P244 P247	P P P P P P P P P P P P P P P P P P P
-66 -73 -73 -73 -73 -73 -74 -54	A Sories: AA, AA1, AI, AIP, AM, J Sories (2 Valve H Sories: HB, HBI, HBIS, HBS, HI, HIP, HIS, HM, HM, HMS, HP, HP, HS, Sories: HRB, HRBI, HRI, HRM, HPR, HRS SORIES: HRB, HRBI, HRBI, HRBS, NHBS, NHI, NI HM, NHM, NHMS, NHPS, NHRBS, NHRB, NI NHM, NHMS, NHRS, NHVB, NHS, Ser, VT-12, NT Some models require our L14CT30, J14CT30, or Z L Sories: LT, LM, LP, K, KO, LR (17): x100 JN and JT Sories (2 valve "% Pilot NH, NT, V12 (5%), V6 (VIM), V8 (VINE) "% Valve Engines Require R214P15 Pilot VB 265 Engine V6 (VAL), V8 (VALE) 57,x4%	Own Own HIS, D Own 14CT30 R Own Own Own	6,12 6,6 6,6 6,6 6,8 6,8 6,12	Psut48  MEM 17  4x5  4% 16  5% 16  5% 16  4% 16  5% 15  5% 16  5% 16  6%	** ** ** ** ** ** ** ** ** ** ** ** **	DIE: IIR IS IS IS ITD	SEL. 11R 18 18 17D 17D 12CE ake and	ENGI L11R L18 L18 L14j30 except a L316 L7C L17D L17D L12CE Exhaust	NES L118 L13 L119 depth of % L318 L7C L17D L17C L17C L17C L17C L17C	)11# )12CE = 2'- = "-	ZIBRX ZIBR ZIBR ZIBR	R109  R104 R107 R107 R105 R105 R106 R106 R109	R104 R107 R107 R105 R115 R102 R106 R106 R106	30 30 30 30 30 30 30 30 30 30	45 30 30 30 30 30 30 30 30 30 30	P239 P245 P245 P247 P259 P248 P247 P259 P248 P247	P245 P239 P245 P241 P259 P241 P259 P243 P2447	P PT P PT 151

\*Replacement Ring for Factory Installed Insert

Engines using Prepane, Butane er Natural Gas must use Chromalloy or Lee-Lite Rings.

#### DODGE AUTOMOBILES

		_				_			VALVE								EAT C	
Year	Medel		<b>,</b>	165		Cast let.		Lee- Int.	Alley Exh.	Çhromati Exh.	y Lee-Lite Exh.	Int.				e Grine Int.		
42.93	022-034, D41-047, D51-056, D62, D72, LD1, MD1	·	_	3414%	*	10		LIDE	LERHIO		Zarhio	R103	R102	45	45	P237	P237	,
53-54	D44, D48, D50, D53	•		3%#3%	*		-		LERHIO		ZBRH10	R104	R102		45	P239	P235	
15.56		1		31,13%	×		•	L14CE		)9	Z9	R105	R103		45	P241	P237	
	D66, D67, D70, D71, LD2, MD2			314.374			9	LISE		)9	Z9	R106	R103		45	P243	P236	
8-60 0-75	LD3, MD3, PD1 390 and 361 DART 6, and all models with 198, 225 engines			4%±3% 3%±4%		208		LUCK	LISCE	JI3CE		R107	R104	45	45	P245	P239	
	LANCER, DART, 170 eng.			3%43%				L13CE		IAE IAE		R104	R102 R102			P239 P239	P234 P234	
D-69	All Models with 318 and 326 Engine	. •	ï	3"43%		HETT	•		LIZCE	JIZCE	ZIZCE	R106	R104		45	P243	P238	
8.75	All Models with 318 Engine			3.91x3%		148TI			LIDE	,		R106	R103		45	PZ43	P236	
8.73	All Models 340 Engine			₽ <b>८±3</b> %.	×	204			LIBCE	J13CE		R107	R 104	45	45	P245	P239	- (
1-67	All Models with 361 Engine			4'ia3'.		ZIDR			LIBCE	113CE		R 107	R104	45	45	P245	P239	- !
	Eng. 383, 413 (45u35), 426 thru 1965 (45u35c), 4		-			ZIDR			LIBCE	JI3CE		I 107	R104	45	45	P245	P239	
4-67	DARY 273 Engine, 1967 LA318-1		6	31.23%	K.		10€ 19€	LIGBE	LIOE			R105 R109	R103	45 45	45 45		P236 P243	
4 67	AAN Bernar Par		:	4%±3% 4%±3%		21 DR						R108	R105				PZ41	
8-75	All Models 383 and 440 Engines (47ug31)		i	414131		ZIDR	•••		LIGBE			R108	R105	45		P247	P241	i
1-75	DARY 273 Engine, 1967 LA318-1 436 Engine		ī	4:3:51	1	16	12CE	L16	LIZCE	JIZCE	ZIZCE	R106	R104	45		P243	P238	i
2-75	400 Engine		•	4 34x3.3	8 1.	21 <b>DR</b>	168		L168	)16B		RTOS	R105	45	45	P247	P241	,
				DO	)DG	)E 1	RU	CKS										
	BIB, BIC, B2B, B2C, 83B, 83C, 84B, B4C, WC & after T112-42001		6	3%x4%	*			LIDE	LSRH10		ZERHIO	R103	R102	45	45	P236	P235	J
	BID, BIDU, B2D, B2PW, B3D, B4D, WD20 and WD T116-42001, C186, C6, D6, F6, C3, B6-C6-D6-F6		6	3'a#4i	14			L10E	LERH 10		ZSRH10	R103	R102	45	45	P236	P235	ı
2-60	B1F, B1H, B2F, B2G, B2H, B3F, B3G, B3H, B4F, B4 WF after Eng. T118-42001, C1G6-H6, C3G6-H6	IG, B4H,	6	3444	96	14C		L14C	Liorio	10R10	Z10810*	R105	E103	45	45	P241	P237	
-40	B1), B1K, B2), B2K, B3), B4K, C1)6-K6, C3)6-K6 1% Enh. for Sedium Valves1				_	_		-	LIORIO	•		-	R103	-		P241	P237	
	BIT, BZT, BIV, BZV, BIR, BZR, BZY ("WExk)			3'uxa'i 3'ux5		14C IBD	14 <b>T</b>	L14C L18D	LIAT	JIORIO	Z10R10	R107	R105	45	45	P245	PZ41	
-56	83R, 83T, 83Y, 83Y, 84R, 84T, 84V, 84Y, C1Y6-	YA6																
. 64	C3Y6 (4%55%) (% Esh.) C1G8-HB			31/44% 31/43%	*			LIZC	LIACY57 LERHTO	J14CY57	Z14CY57 Z8RH10	RIO4	R102				P241 P235	
	CIN-KE, CSIR-KE (% Enh.)			3'.x3':		12C 14C		LIAC	LERHIO		ZERHIO	R105	R102			P241		
	CIRS-TS-US, CORE-TS-US, KS-D700, KS-D800.		•		•	170			LOWITTO		Zekii.v	2.07	n 102	٠,	7,	141	,	•
	K8-C700, K8-5700 (331 Eng) (% Exh.)			3"w3".	*	18E			L168Y57	168Y57	Z168Y57	R106	R 106	45	45	P243	P243	
	C188-C8-D6, C388-C8-D8-F8-G8-H8 (31:2312)			%34%		13	ī	L13E	L8	ja	Z8	R105	R102	45	45	P241	P235	-
	K6-D100, D200, D300, P300, P400, (230 Eng.)		6	314x4%	η,			LIOE	L88 H10		Z8RH10	R 103	<b>₹102</b>	45	45	P236	P235	•
7-60	KB and LB D100, D200, D300, D400, D500, D600,		_										_					
7 49	C500, C600, P300, P400, S400, S500, S600 +315 Er 251 Eng., 265 Eng., % Exh., (3%c4%)	ME-1		314374				L16	L9H28	110810	Z10R10	R106	Spec			P243		
	354 Engine (% Exh.)			3'\43's		140		L14C L19C	L10R10 L168Y57	J10#10 J16#Y57	Z168Y57	R105 R107	R103 Spec	45 45	45 45	P241 P245	P237 P242	
	318 Engine, LA318-1, LA318-3			3°4234				LIBE	LIZCE	J12CE	ZIZCE	R106	R104				PZ38	
4.75	318, 318LA Fremium Engine			37,235.				LIBE	L9HU57	,	Z9HU57	R106		45		P243	P237	
0.75	360, 361, 400, 413 Engs. 1% Esh / 413 Engs. 865 4 All Models with 170, 198 and 225 (3"\x4"s) Engine	4%ur14	8	4'ix3's	×			LISE	L9HU57		Z9HU57	R106		45	45	P243	P237	
1-75	All Models with 170, 198 and 225 (3"\x41s) Engine	45	6	3"\#3'i				LIBCE		J8E			RIOZ		45		P234	
5-75 1-76	383, 400, 440 (4%a33%)			4 .13'		ZIDE			LIGBE				R 105				P241	
	360 Engine issel Trucks Use Cummins and Detroit Engines. 11	H C 478 and		4x3.58 Cas En	gines			L16 Models.	L12CE See These	j12CE Engine Li	Z12CE stings.	RIOS	K 104	*>	•0	P243	P238	
					ı	EDS	EL											
L59	361 Engine (EDD), 1959 (4x3%) 332 Engine 410 Engine (EDH)	Own Own		34x3% 474x3%					L12CE L16BE	J12CE	ZIZCE					P245 P245		
IP30	Reseator Pilot is used for % guide size.																	
				FAIF	tB/	\NK		DRSE						45	45	P231	P721	
	Z (15 HP and 2 HP)				×										45		P235	
	Z (V5 H.P. and 2 H.P.)						16	L16	L16	]16	Z16	R106	R106			P243		
	Z (3 H.P.)					16	10			-						P251		
	Z (3 H.P.)				К.	16 22 <sub></sub> a			LZZA							P229	P229	•
	Z (3 H.P.) Z (5 H.P.) Z (7% H.P.) ZD14 (2 H.P.)		••••		%. %.	22A 3	22A 3	LZZA L3	L3			R100	R100	45				
	Z (3 H,P.) Z (5 H,P.) Z (7% H,P.) ZD14 (2 H,P.) ZC52 (3 H,P.)		****		% % %	<b>22</b> A 3 7	22A 3 6	LZZA L3 L7	L3 L6	<b>J6</b>		R100 R102	R101	45 45	45	P234		
	Z (3 H.P.) Z (5 H.P.) Z (7% H.P.) ZDI4 (2 H.P.) ZCSZ (3 H.P.) ZC118 (7 H.P.)		••••		% % % % % % % % % % % % % % % % % % %	22,A 3 7 16	22A 3 6 16	L22A L3 L7 L16	L3 L6 L16	)6 J16	Z16	R100 R102 R106	R101 R106	45 45 45	45 45	P234 P243	P243	-
	Z (3 H.P.) Z (5 H.P.) Z (7% H.P.) ZD14 (2 H.P.) ZC52 (3 H.P.) ZC118 (7 H.P.) ZC208 (9 H.P.)				% % %	22,A 3 7 16	22A 3 6	LZZA L3 L7	L3 L6		Z16	R100 R102 R106	R101 R106	45 45 45	45 45	P234	P243	-
	Z (3 H.P.) Z (5 H.P.) Z (79 H.P.) ZD14 (2 H.P.) ZC52 (3 H.P.) ZC118 (7 H.P.) ZC208 (9 H.P.) ZC30 (12 H.P.) ½ Exhaust. Late Heads with 2 int	······································			***	22A 3 7 16 22	22A 3 6 16 22	LZZA L3 L7 L16 LZZ	L3 L6 L16 L22		Z16	R100 R102 R106 R109	R101 R106 R109	45 45 45 45	45 45 45	P234 P243 P251	P243 P251	
	Z (3 H.P.) Z (5 H.P.) Z (7% H.P.) ZD14 (2 H.P.) ZC52 (3 H.P.) ZC118 (7 H.P.) ZC208 (9 H.P.)				***	22,A 3 7 16	22A 3 6 16 22	L22A L3 L7 L16	L3 L6 L16 L22		Z16	R100 R102 R106 R109	R101 R106 R109	45 45 45 45	45 45 45	P234 P243	P243 P251	
	Z (3 H.P.) Z (5 H.P.) Z (174; H.P.) ZD14 (2 H.P.) ZC52 (3 H.P.) ZC53 (3 H.P.) ZC36 (17 H.P.) ZC36 (19 H.P.) K; Exhaust. Late Heads with 2 int valves require 22 intake ring ZC503 (17 H.P.) K; Exhaust. Late Heads with 2 in valves require 22 intake ring				机械机械机械 机	22A 3 7 16 22 27C	22A 3 6 16 22 27C 27C	LZZA L3 L7 L16 LZZ LZ7C	L3 L6 L16 L22 L27C		Z16	R100 R102 R106 R109	R101 R106 R109 R111	45 45 45 45	45 45 45 45	P234 P243 P251	P243 P251 P255	1
• Sa	Z (3 H.P.) Z (5 H.P.) Z (75 H.P.) ZD14 (2 H.P.) ZC52 (3 H.P.) ZC18 (7 H.P.) ZC208 (9 H.P.) ZC36 (12 H.P.) % Exhaust. Late Heads with 2 int valves require 22 intake ring ZC503 (17 H.P.) % Exhaust. Late Heads with 2 Int	staka		pane, Su	*****	22A 3 7 16 22 27C Intake 27C	22A 3 6 16 22 27C 27C and 8	LZZA L3 L7 L16 LZZ LZ7C	L3 L6 L16 L22 L27C		Z16	R100 R102 R106 R109 R111	R101 R106 R109 R111 R115	45 45 45 45 45	45 45 45 45	P234 P243 P251 P255	P243 P251 P255 P261	
or Sa	Z (3 H.P.) Z (5 H.P.) Z (17); H.P.) ZD14 12 H.P.) ZC52 (3 H.P.) ZC52 (3 H.P.) ZC18 (7 H.P.) ZC346 (12 H.P.) K, Exhaust. Late Heads with 2 int values require 22 intake ring ZC530 (17 H.P.) K, Exhaust. Late Heads with 2 int values require 22 intake ring ZC530 (17 H.P.) K, Exhaust. Late Heads with 2 Intervalues require 22 intake ring ZC739 (25 H.P.) ½ Exhaust.	stake	 Proj		King King King King King King King King	22A 3 7 16 22 27C Intake 27C or Nat	22A 3 6 16 22 27C 27C and E 36 ural Ga	LZZA L3 L7 L16 LZZ LZ7C ixhaust j3 LZ7C s Fuel.	L3 L6 L16 L22 L27C	j16		R100 R102 R106 R109 R111	R101 R106 R109 R111 R115	45 45 45 45 45	45 45 45 45	P234 P243 P251 P255 P261	P243 P251 P255 P261	1
	Z (3 H.P.) Z (5 H.P.) Z (5 H.P.) Z (17); H.P.) ZD14 12 H.P.) ZC52 (3 H.P.) ZC52 (3 H.P.) ZC346 (12 H.P.) K. Exhaust. Late Heads with 2 int valves require 22 intoke ring ZC503 (17 H.P.) K. Exhaust. Late Heads with 2 int valves require 22 intoke ring ZC503 (17 H.P.) K. Exhaust. Late Heads with 2 int valves require 22 intoke ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 intoke ring ZC739 (25 H.P.) ½ Exhaust.	otaka otaka ongines using	 ! 're	TRAC	KANAKA KANAKA	22A 3 7 16 22 27C Intake 27C or Nat	22A 3 6 16 22 27C 27C 27C 2 and E 36 ural Ga	LZZA L3 L7 L16 LZZ  LZ7C  ixkaust j3 LZ7C s Fuel.	L3 L6 L16 L22 L27C	j16		R100 R102 R106 R109 R111 R115 R111	R101 R106 R109 R111 R115 R120	45 45 45 45 45 45	45 45 45 45 45	P234 P243 P251 P255 P261 P255	P243 P251 P255 P261 P263	1 1 0
<b>0-5</b> 0	Z (3 H.P.) Z (5 H.P.) Z (7) H.P.) ZD14 12 H.P.) ZC52 (3 H.P.) ZC52 (3 H.P.) ZC346 (12 H.P.) K Exhaust. Late Heads with 2 in values require 22 intake ring ZC503 (17 H.P.) K Exhaust. Late Heads with 2 in values require 22 intake ring ZC503 (17 H.P.) K Exhaust. Late Heads with 2 in values require 22 intake ring ZC739 (25 H.P.) K Exhaust. Late Heads with 2 in values require 22 intake ring ZC739 (25 H.P.) K Exhaust. Late Heads with 2 in values require 22 intake ring ZC739 (25 H.P.) K Exhaust.	stake	Prog		KANAKA KANAKA	22A 3 7 16 22 27C Intake 27C or Nat	22A 3 6 16 22 27C 27C and E 36 ural Ga	LZZA L3 L7 L16 LZZ LZ7C ixhaust j3 LZ7C s Fuel.	L3 L6 L16 L22 L27C	j16	on)	R100 R102 R106 R109 R111 R115 R111	R101 R106 R109 R111 R115 R120	45 45 45 45 45 45 45	45 45 45 45 45 45	P234 P243 P251 P255 P261 P255	P243 P251 P255 P261 P263	, ,
8-50 1-54 5-58	Z (3 H.P.) Z (5 H.P.) Z (17; H.P.) ZD14 (2 H.P.) ZC52 (3 H.P.) ZC16 (7 H.P.) ZC16 (7 H.P.) ZC16 (7 H.P.) ZC16 (7 H.P.) ZC36 (12 H.P.) ½ Exhaust. Late Heads with 2 int valves require 22 intake ring ZC503 (17 H.P.) ½ Exhaust. Late Heads with 2 in valves require 22 intake ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 22 intake ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 22 intake ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 22 intake ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 intake ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 in valves ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 in valves ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 in valves ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 in valves ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 in valves ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 in valves ring ZC739 (25 H.P.) ½ Exhaust. Late Heads with 2 in valves require 2 in valves requi	engines using  RGUSO  ont. Z120  ont. Z129  ont. Z129	Proj	TRA( 3%±3%	14 14 14 14 14 14 14 14 14 14 14 14 14 1	22A 3 7 16 22 27C Intake 27C or Nat	22A 3 6 16 22 27C 27C 27C and E 36 ural Ga (\$40 28P	LZZA L3 L7 L16 LZZ LZ7C ixkaust j3 LZ7C s Fuel.	L3 L6 L16 L22 L27C TIAU	j16		R100 R102 R106 R109 R111 R115 R111	R101 R106 R109 R111 R115 R120	45 45 45 45 45 45 45 45	45 45 45 45 45 45	P234 P243 P251 P255 P261 P255	P243 P251 P255 P261 P263 P227 P227 P231	, , ,

'Replacement Ring for Factory Installed Insert.

Englines using Propane, Butane or Natural Gas must use Chromalloy or Lee-Life Rings.

#### FORD AUTOMOBILES

									<b>5</b>									
			Eng.		Bilar	Cast	- I	las.	√ALVE Alloy	SEATS	y Lee-Lite	<b>x.</b> 0.0	utter	٠.,	And		SEAT (	-
Year	Medel	Make	Cyl.	865	Size		Exh.	int.	Exth.	Exh	Exh.	Int.				let.		
28.12	A. AA. B	Own	4	3%x4%	**	10	10	L10	L 16	110	Z10	R103	R103	45	45	P237	P237	M
	01A, 11A, 21A, 14, 18, 40, 48, 68, 78, 81A, 91A (			3144314		10	10+5		L10+5	,		R103	R103			P237	P237	
H7-40	022A, 74, <b>8</b> 2A, 922A	60 H.P.		2.6×3 2		6	6	L6	L6	<del>J</del> 6		R 101	R101	45		P233	P233	
	1GA, 2GA, SGA, 6GA, 7GA, HA, C, Y, T	95 H.P.		3.3x4.4		13	10+5		L10+5			R105	R103	45		P241	P237	
	59A, 69A, 79A, 89A, BA	100 H.P.	-	3\u3\u3\u3\u3\u3\u3\u3\u3\u3\u3\u3\u3\u3		10 13	10+5 10+5		L10+5			R 103 R 105	R103 R103			P237 P241	P237 P237	
57.53	OHA, HO, 1HA (226 Eng.) THA, All 6 cyl. (everhead Valve) (215 Eng.)	Own	6	3.56x3.6		13	98TH	LISE	L10+5 L98TH	198TH	298TH	K105	R103	45	45	P241	P237	
19.53	OBA, IBA, All V8's	Own	ĭ	3%x3%		10	10+5	LIO	L10+5	120111	2,0	R103	R103	45		237	P237	
54	EBU, All V8's (239 Eng.)	Own	Ĭ	3'x3.1	74	13	•	L13E	L9ATH	PATH		R105	R103	45		P241	P237	P
58-60		Own		4x3%	×	208			L12CE	JIZCE	Z12CE	#107	R104	30		P245	P238	
60-64		Own		3'ix2'i	Х.	9		L9	L5CH			R103	KIO1	45	45	P236	P232	
	221 and 260 (3°(x;2'x) Engines			3'1×2'4 3.62×3.6	<b>X</b>	17D		L12CE L17D	L8 L9ATH	<b>J</b>	Z8	R104	R102	45	45	P238	P235	
59.67	EBP, (223 Eng.) All 6 cyl. OHV 223 Engine	Own Own		34x3%		170	9	LIGBE		9ATH  9	Z9ATH Z9	R106 R105	R 103 R 103	45 45	45 45	P243 P240	P237 P237	
	289 Engine	_	ă	4x2%	14		ģ	LIACE		19	Z9	R105	R 103	45	45	P240	P236	
	272, 292		ě	34x3%				L16E	L9ATH	PATH	Z9ATH	R105	R 103	45	45	P240	P236	
7.59	All VII's (272, 292, 312 Eng.)			3'.x3"L	"Χ	19E			L9ATH	19ATH	Z9ATH	R106	R 103	45	45	P241	P236	,
	292 Engine with Seats	Own		31/13"			9BTH		Fath.	198TH	Z98TH	R104	K103	45		P239	P237	
	292 Engine without Seats	Own		31/431/4		3188		L13CE	L9ATH	PATH	Z9ATH	R104	R 103	45	45	P239	P236	
	430 Engine 430 Engine Mfg. after November 24, 1959	Owa Owa		4%x3% 4%x3%		21 DR 19C		1.100	L16BE	113CE		R108 R107	R105 R104	30 45	45 45	P247 P245	P241 P239	
	170, 200 (31%x3'a), 250 Engines	OWA	6	3'1×2'%		1,70	8	LISCE		18	Z8	R104	R102	45		P239	P235	
	289, 302 (4x3) Engines		Ĭ	4x2's	13,		9	LIGBE		19	<b>Z</b> 9	R105	R103	45	45	P241	P236	
	352, 360, 390 (4\ix375) Eng. 406 (41x375), 410	428 Own	8	4° a 2 8		201			LIZCE	JIZCE	ZIZCE	R107	R104	45	45	P245	P238	
5.73	240, 300 Engines		6	4x3∿	η <sub>έ</sub>		12CE	L16BE	L12CE	112CE	Z12CE	R105	R104	45	45	P241	P238	
	EGB-427 (1966-67 Take L16E Exhaust) 428 Col	ira jet	8	4"wx3"¥					L14CE			R108	R104	30		P247	P240	
	EGC 462		8	41.13 83		_	r 8		LI3CE	JI3CE		R107	R104 R101	45 45	45 45	P245 P238		
	98 C1D (4 cyl) 1.6 Litre-Kent		4	3.19+3 (			5P	LIZE		18	Z8	R104	1802	45	45	P239		
	122 CID 14 cyl + 2.0 Litre 11nt 15ax15ax5c = 351 CID 2V Windsor			3"3 :: 4x3 ;		" 17E	8 10		L8 L10	J10	Z10	R105	R103	45	45	P242		
	351 CID 2V Cleveland, 400 CID-2V, 429-460 CI	D 4V		4x3',	:1,		,,,		LISCE	JI3CE	210	R108	R104	45	45	P247		
	351 CID 4V. 429 CID-4V Cobra Super Cobra			4%.3%		238			L14CE	,		R109	R104	45	45		P240	) į
	429 CID 4V Boss			4"ur3"		Intak	e J25CK			J18CT		R110	R106	45	45	P251	P243	
1P30	or RZ12M2 Reseater Pilot is used for 373 Guid	e Size.																
	FOR	D TRU	CKS	. BU	SE	SA	ND II	NDUS	STRIA	L ENGI	NES							
9-53	Alf Trucks and Buses 100 H.F. + 1949-53, 239 Eng.			31.x31.		10	10+5		L10+5			R103	R103	45	45	P237	₹237	2
	All Trucks and Busses 90 H.P.	Own		3.3x4.4		13	10+5		L10+5			R 105	R 103				P237	
	All Trucks and Buses, 254 (31:x4.4)	226		3 3x4 4	4		10+5		L10+5			R105	<b>K</b> 103	45	45	PZ41	P237	
	F7, F8 145 H.P., (Exh. oversize ring 11R or 11T)	337		3'1×4'.	"⊭	170		L17D	L10845		-08-TH	R106	-107	45	-	P243	P239	
3	F7, F8 145 H.P. (Overhead valve)			3'1x4'4 3'1x3.6	"11 "11	170	98TH 98TH	L17D L13E	L98TH L98TH	J9#TH  9#TH	Z9BTH Z9BTH	R106 R105	R103 R103	45 45		P243 P241	P237 P237	
3	All Trucks 6 Cyl. OHV 215 Eng. F570, C750, B750 145 H.P., JC279, EAL	Own		3.56×3		14	98TH	L14	L98TH	J98TH	Z98TH	R105	R103	45		P241	P237	
3	FB00, F900, C800 155 H.P., EAM, JB317	Own		3 8x3.5		17D	9BTH	L17D	L9BTH	J9BTH	Z9BTH		R103	45		P243	P237	
4.58	Courier, F100-F500, ERB, S. T. JF (223 Eng.)	Own	6	3.62x3 6	"n	17D		L17D	L9ATH	J9ATH		R 106	R103	45	45	P243	P237	P
4 56	F100-F600, EBV, EBW, JG (239 Eng.)	Own		3'1x3 1	14			L13E	L9ATH	J9ATH		R 105	R 103	45		P239	P237	
	F600, F700, EBZ, JH +256 Eng +	Own		3 62×3 1	11%		9BTH	1 16RF	L98TH	198TH	Z98TH	R 105	k103		45	P241	P237	
					** .			LIODE						45			P237	
	F750, T700, CAB C750, B750, EAL, JC-N 1279			3 56x3		208	98TH	LIODE	L98TH	198TH	Z98TH	R107	₹103	45		P241		
. ,	F800, F900, T800, C800, C900, EAM, JB-N, (317	332 Own	В	3 56x3 3 8x3';	1120	208	98 TH		L98TH	ј98ТН Ј98ТН	Z9BTH	R107		45		P241 P245	P237	
	F800, F900, T800, C800, C900, EAM, JB-N, (317 1956 F700, F7	332 Own	B 200, T	3 56x3 3 8x3';	1120	208	98 TH	0, <b>C80</b> 0.	L98TH	ј98ТН Ј98ТН	Z9BTH	R107 st	₹103	45 45	45	P245		P
7.59 9-71	F800, F900, T800, C800, C900, EAM, JB-N, (317 1956 F700, F7 EDB, EEH, EE <sub>3</sub> (292 Eng ) EEK has <sup>2</sup> <sub>11</sub> Exh 223 Engine	, 332 <sup>-</sup> Own 50, F800, F9 Own	8 200, T	3 56x3 ; 3 8x3'; 700, T75	0, T1	208 100, C7	98TH 00 C75	0, <b>C80</b> 0.	L98TH C900, B7 L98TH	ј98ТН Ј98ТН 700, 8750 На	Z9BTH ve 'u Exhau	R107 st	R103	45 45	45 45		P237	P
7-59 9-71 7-64	F800, F900, T800, C800, C900, EAM, [B-N, (317) 1956, F700, F7 EDB, EEH, EE; (292 Eng.) EEK has 76 Exh 223 Engine ECS (302 Eng.), ECT (332 Eng.), (384x375) 76	, 332 · Own 50, F\$00, F! Own Exh.	8 8 6 8	3 56k3 : 3 8x3'; 700, T75 3'4x3% 3'4x3" 3'4x3" 3'4x3"	0, T8 % % ¥	208 100, C7	98TH 90 C75 98TH 10 98TH	0, C800, L19C L16BE L19C	L98TH C900, B7 L98TH L10 L98TH	ј98ТН ј98ТН 700, 8750 На ј98ТН ј10 ј98ТН	Z9BTH we 'u Exhau Z9BTH	R107 st R107 R105	R103 R103 R103 R103 R103	45 45 45 45 45	45 45 45 45	P245 P245 P240 P245	P237 P237 P236 P237	P P P
7.59 9-71 7.64 8-73	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng / EEK has 'n Exh 223 Engine ECS (302 Eng /, ECT (332 Eng), (31843194 7, EDL (401 Eng.), EDM (477 Eng.), EDM (534 En	, 332 · Own 50, F\$00, F! Own Exh.	8 8 6 8 8	3 56x3 : 3 8x3'; 700, T75 3'4x3%; 3'4x3"; 3'4x3"; 4'4x3';	0. T1 % % %	208 100, C7 19C	98TH 90 C75 98TH 10 98TH 12T	0, C800, L19C L16BE L19C J19T28	L98TH C900, 87 L98TH L10 L98TH L12T	1987H   1987H   700, 8750 Ha   1987H   110   1987H   1127	Z9BTH we 'u Exhau Z9BTH Z10 Z9BTH	R107 st R107 R105 R107	R103 R103 R103 R103 R103 R104	45 45 45 45 45 45	45 45 45 45 45	P245 P245 P240 P245 P247	P237 P237 P236 P237 P239	P
7-59 9-71 7-64 8-73 0-64	F800, F900, T800, C800, C900, EAM., [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng.) EEK has 70, Exh. 223 Engine ECS (302 Eng.), ECT (332 Eng.), (3170437) 27 EDL (401 Eng.), EDN (477 Eng.), EDN (534 En 292 EEK Engine with Seats	, 332 · Own 50, F\$00, F! Own Exh.	8 6 8 8 8	3 56x3; 3 8x3; 700, T75 3'4x3%; 3'4x3"6; 3'4x3"6; 4'4x3'; 3'4x3"6;	0. T1 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	208 100, C7 19C	98TH 90 C75 98TH 10 98TH	0, C800, L19C L16BE L19C J19T28 L13CE	L98TH C900, 87 L98TH L10 L98TH L12T L98TH	198TH   198TH   700, 8750 Ha   198TH   110   198TH   112T   198TH	Z9BTH we 'u Exhau Z9BTH Z10 Z9BTH Z9BTH	R107 st R107 R105 R107	R103 R103 R103 R103 R103 R104 R104	45 45 45 45 45 45	45 45 45 45 45 45	P245 P245 P240 P245 P247 P239	P237 P237 P236 P237 P239 P237	P P P P P P P P P P P P P P P P P P P
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64	F800, F900, T800, C800, C900, EAM, JB-N, (317) 1956, F700, F7 EDB, EEH, EEJ (292 Eng ) EEK has 7n, Exh 223 Engine ECS (302 Eng ), ECT (332 Eng), (315m; 37) 7n, EDL (401 Eng.), EDM (477 Eng.), EDN (534 Eng) 292 EEK Engine with Sears 292 EEH and EEJ Engines without Sears	, 332 · Own 50, F\$00, F! Own Exh.	900, T 8 6 8 8 8	3 56x3 : 3 8x3'; 700, T75 3'ix3% 3'ix3% 4'ix3'i 4'ix3'i 3'ix3''u 3'ix3''u 3'ix3''u	() 0. T8 % % % ች ች ች %	208 100, C7 19C	98TH 90 C75 98TH 10 98TH 12T 98TH	0, C800, L19C L16BE L19C J19T28 L13CE L13CE	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH	198TH   198TH   198TH   198TH   110   198TH   112T   198TH   198TH	Z9BTH we 'u Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH	R107 st R107 R105 R107 R104 R104	R103 R103 R103 R103 R103 R104 R103 R103	45 45 45 45 45 45 45 45	45 45 45 45 45 45	P245 P245 P240 P245 P247 P239 P239	P237 P236 P237 P237 P239 P237 P236	P P P P
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 2 - 64	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EE; (292 Eng   EEK has 'n Exh 223 Engine ECS (302 Eng  , ECT (332 Eng  , 131 ma 31 n) 7 n EDL (401 Eng.), EDM (477 Eng.), EDN (534 En 292 EEK Engine with Soars 292 EEH and EE) Engines without Seats 252 EER Engine	, 332 · Own 50, F\$00, F! Own Exh.	8 6 8 8 8 8	3 56x3; 3 8x3'; 700, T75 3'4x3%; 3'4x3%; 4'1x3'; 4'1x3'; 3'4x3'%; 3'4x3'%; 3'1x2';	. TI 이, TI % % % % % % % % % % % % % % % % % % %	208 100, C7 19C 19C	98TH 90 C75 98TH 10 98TH 12T	0, C800, L19C L16BE L19C J19T28 L13CE L13CE L16BE	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH L9BTH	198TH   198TH   700, 8750 Ha   198TH   110   198TH   112T   198TH	Z9BTH we 'u Exhau Z9BTH Z10 Z9BTH Z9BTH	R107 st R107 R105 R107 R104 R104 R106	R103 R103 R103 R103 R103 R104 R103 R103 R103	45 45 45 45 45 45 45 45	45 45 45 45 45 45 45	P245 P245 P240 P245 P247 P239 P239 P242	P237 P236 P236 P237 P239 P237 P236 P237	P P P P P P P P P P P P P P P P P P P
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 2 - 64 0 - 64	F800, F900, T800, C800, C900, EAM, JB-N, (317) 1956, F700, F7 EDB, EEH, EEJ (292 Eng ) EEK has 7n, Exh 223 Engine ECS (302 Eng ), ECT (332 Eng), (315m; 37) 7n, EDL (401 Eng.), EDM (477 Eng.), EDN (534 Eng) 292 EEK Engine with Sears 292 EEH and EEJ Engines without Sears	, 332 · Own 50, F\$00, F! Own Exh.	8 6 8 8 8 8 8 8	3 56x3 : 3 8x3'; 700, T75 3'ix3% 3'ix3% 4'ix3'i 4'ix3'i 3'ix3''u 3'ix3''u 3'ix3''u	0. TI % % % % % % % % % % % %	208 100, C7 19C 19C	98TH 90 C75 98TH 10 98TH 12T 98TH	0, C800, L19C L16BE L19C J19T28 L13CE L13CE	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH L9BTH L5CH	198TH   198TH   198TH   198TH   110   198TH   112T   198TH   198TH	Z9BTH we 'u Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH	R107 st R107 R105 R107 R104 R104	R103 R103 R103 R103 R103 R104 R103 R103	45 45 45 45 45 45 45 45	45 45 45 45 45 45	P245 P245 P240 P245 P247 P239 P239	P237 P236 P237 P237 P239 P237 P236	
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 0 - 64 5 - 75	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng.) EEK has 70, Exh. 223 Engine ECS (302 Eng.), ECT (332 Eng.), (370 at 27) EDL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Seats 292 EEH and EEJ Engines without Seats 252 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C)	, 332 · Own 50, F\$00, F! Own Exh.	8 6 8 8 8 8 8 6 6	3 56x3; 3 8x3'; 700, T75 3'4x3%; 3'4x3%; 4'4x3'; 4'4x3'; 3'4x3'%; 3'4x3'%; 3'4x2'; 3'1x2';	0. TI % % % % % % % % % % % %	208 100, C7 19C 19C	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH	0, C800, L19C L16BE L19C J19T28 L13CE L13CE L16BE L9	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L9ATH L9BTH L5CH L8	98TH 98TH 700, 8750 Ha 99BTH 910 99BTH 92TH 99BTH 99BTH 99BTH 99BTH	Z9BTH ve '4 Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH	R107 st R107 R105 R107 R104 R104 R106 R103	R103 R103 R103 R103 R104 R104 R103 R103 R103 R101	45 45 45 45 45 45 45 45 45 45 45	45 45 45 45 45 45 45 45	P245 P245 P240 P245 P247 P239 P239 P242 P236	P237 P236 P237 P239 P237 P236 P237 P236	P P P P P P P P P P P P P P P P P P P
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 0 - 64 5 - 75 2 - 65 5 - 75	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956-F700, F7 EDB, EEH, EEJ (292 Eng.) EEK has 70, Exh. 223 Engine ECS (302 Eng.), ECT (332 Eng.), (370437) 27 EDL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Seats 292 EEH and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (3704374), 250 Engines 289, 302 (4x3) Engines	, 332 ° Own 50, F800, F9 Own Exh. g °, 4° x4° u	8 6 8 8 8 8 8 6 6 6	3 56x3 : 3 8x3'; 700, T75 3'4x3'x 3'4x3'x 4'1x3'x 3'4x3'x 3'4x3'x 3'4x3'x 3'4x3'x 3'4x3'x 3'4x2'x 4x2'x 4x2'x 4x2'x	T T T T T T T T T T T T T T T T T T T	208 100, C7 19C 19C	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH 98TH 8	0, C800, L19C L16EE L19C J19T28 L13CE L13CE L16EE L9 L13CE L14CE L16E	L98TH C900, B7 L98TH L10 L98TH L12T L98TH L98TH L9ATH L5CH L8 L9 L9	98TH   198TH   198TH   198TH   110   198TH   12T   198TH   198TH   198TH   198TH   198TH	Z9BTH ve 'u Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105	R103 R103 R103 R103 R104 R104 R103 R103 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240	P237 P236 P237 P239 P237 P236 P237 P232 P235 P236 P236	P P P P P P P P P P P P P P P P P P P
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 2 - 64 2 - 64 5 - 75 2 - 65 5 - 75 4 - 75	F800, F900, T800, C800, C900, EAM., [8-N], (317) 1956, F700, F7 EDB, EEH, EEJ, (292 Eng.) EEK has 7n, Exh. 223 Engine ECS (302 Eng.), ECT (332 Eng.), (311nx317), (7n) EDL (401 Eng.), EDM (477 Eng.), EDN (534 Eng.) 292 EEK Engine with Saats 292 EEH and EEJ Engines without Saats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (311nx311), 250 Engines 289 Engines 289 Engines 289, 302 (4x3) Engines 330 EFU, (330 EFV, 361 EFW; 391 EFY (44mx311)	, 332 ° Own 50, F800, F9 Own Exh. g °, 4° x4° u	B 6 8 8 8 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8	3 56k3 : 3 8x3'; 700, T75 3'4x3k4 3'4x3'4 3'4x3'4 3'4x3'4 3'4x3'4 3'4x3'4 3'4x2'4 4x2'4 4x2'4 4x2'4 4x2'4	0. THE SEA SEA SEA SEA SEA SEA SEA SEA SEA SE	208 100, C7 19C 19C	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH	0, C800, L19C L16EE L19C J19T28 L13CE L13CE L16EE L9 L13CE L14CE L16E	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH L9BTH L5CH LB L9 L9	198TH   198TH   198TH   198TH   110   11	Z9BTH ve 'u Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105	R103 R103 R103 R103 R104 R104 R103 R103 R101 R102 R103 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240 P240	P237 P237 P236 P237 P239 P237 P236 P237 P236 P236 P236 P236	
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 0 - 64 5 - 75 2 - 65 5 - 75 4 - 75 5 - 75	FB00, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng   EEK has 1/1 Exh 223 Engine ECS (302 Eng   ECT (332 Eng), (311/4/31/1/2) 7/1 EDL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Sears 292 EEH and EEJ Engines without Sears 292 EEH and EEJ Engines without Sears 293 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (311/4/31), 250 Engines 289 802 (483 Engines 289, 302 (483 Engines 330 EFU, (330 EFV, 361 EFW); 391 EFY (41/4/31), 240, 300 Engines	, 332 ° Own 50, F800, F9 Own Exh. g °, 4° x4° u	B 6 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 8 8 8	3 56x3 : 3 8x3'; 700, T75 3'ix3%; 3'ix3%; 4'ix3%; 3'ix3%; 3'ix3%; 3'ix2'; 3'ix2'; 4x2'; 4x2'; 4x2'; 4x3'; 4x3';	0. T1 % 安全 26 % Gat 26 % Ga	208 100, C7 19C 19C	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH 98TH 8	0, C800, L19C L16EE L19C J19T28 L13CE L13CE L16EE L9 L13CE L14CE L16E	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH L9BTH LSCH LB L9 L9 L9 L9 L9 L9 L9 L9 L9CE	98TH   198TH   198TH   198TO Ha   198TH   110   198TH   112T   198TH   198TH	Z9BTH ve 14 Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R105	R103 R103 R103 R103 R104 R104 R103 R103 R103 R101 R102 R103 R103 R103 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240 P240 P241	P237 P236 P237 P239 P237 P236 P237 P232 P235 P236 P237 P238	
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 5 - 75 2 - 65 5 - 75 4 - 75 5 - 75 1 - 75	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng ) EEK has 'n, Exh 223 Engine ECS (302 Eng.), ECT (332 Eng.), (311 Leg 2), (312 Eng.), EDN (534 En 292 EEK Engine with Seats 292 EEH and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (311 Leg 2), (312 Engines 2), (313 Engines 2), (313 EFV, 431 Engines 330 EFU, 1330 EFV, 361 EFW; 391 EFY (41 Leg 2), (302 Engines 352, 390 Engines 253, 300 Engines	, 332 ° Own 50, F800, F9 Own Exh. g °, 4° x4° u	B 6 8 8 8 6 6 8 8 8 6 8 8 8 8 8 8 8 8 8	3 56x3 : 3 8x3'; 700, T75 3'4x3%; 3'4x3%; 3'4x3%; 3'4x3'; 3'4x3'; 3'1x2'; 4x2'; 4x2'; 4x2'; 4x3'; 4x3'; 4x3'; 4x3'; 4x3'; 4x3'; 4x3';	0. THE SEA SEA SEA SEA SEA SEA SEA SEA SEA SE	208 800, C7 19C 19C	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH	0, C800, L19C L16EE L19C J19T28 L13CE L13CE L16EE L9 L13CE L14CE L16E	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH L9ATH L9CH LB L9 L9 L9 L9 L9 L9 L9ATH L12CE L10AR	198TH   198TH   1900, 8750 Hz   198TH   1100   198TH   112T   198TH   198TH	Z9BTH ve 'u Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R105 R105	R103 R103 R103 R103 R104 R104 R103 R103 R103 R101 R102 R103 R103 R103 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240 P241 P245	P237 P236 P237 P239 P237 P239 P237 P236 P236 P236 P236 P236 P238 P238	
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 2 - 64 5 - 75 2 - 65 5 - 75 4 - 75 1 - 75 4 - 75	F800, F900, T800, C800, C900, EAM., [8-N. (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng ) EEK has 7s, Exh 223 Engine ECS (302 Eng ), ECT (332 Eng), (315st) 7s, EDL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Soats 292 EEK Engine with Soats 292 EEK Engine with Soats 252 EER Engine State (1970) EET, 200 EFZ, Int. 10C1 170, 200 (335st) 4, 250 Engines 289 Engines 289 Engines 289 Engines 330 EFU, (330 EFV, 361 EFW; 391 EFY (45st) 240, 300 Engines 293, 302 Engines 293, 302 Engines ECC-462 Engines ECC-462 Engines	, 332 : Own 50. F800. Ft Own Esh. g ! , 4'3x4'% ) ?s. Enh.)	B	3 56k3: 3 8x3'; 700; T75 3'ix38'; 3'ix38'; 4':x3'; 3'ix3'; 4':x3'; 3':x2'; 4x2'; 4x2'; 4x2'; 4x3'; 4':x3.8; 4':x3.8;	0, T8	208 100, C7 19C 19C 9	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH	0, C800, L19C L16EE L19C J19T28 L13CE L13CE L16EE L9 L13CE L14CE L16E	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH L9CH L8 L9 L9 L9 L9TH L12CE L10AR L13CE	98TH   198TH   198TH   198TO Ha   198TH   110   198TH   112T   198TH   198TH	Z9BTH ve 14 Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R105 R107 R107	R103 R103 R103 R103 R104 R104 R103 R103 R103 R103 R103 R103 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P239 P242 P236 P240 P240 P241 P245 P247	P237 P236 P237 P239 P237 P239 P237 P236 P236 P236 P236 P238 P238 P238 P238	
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 0 - 64 5 - 75 5 - 75 4 - 75 4 - 75 6 - 75	F800, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has % Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (37%x37%x7) EDL (401 Eng.), EDM (477 Eng.), (37%x37%x7) 292 EEK Engine with Sears 292 EEH and EEJ Engines without Sears 292 EEH and EEJ Engines without Sears 292 EEH and EEJ Engines without Sears 293 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (37%x37x), 250 Engines 289 Engines 289, 302 (4x3), Engines 330 EFU, (330 EFV, 361 EFW), 391 EFY (44xx37x) 240, 300 Engines 352, 390 Engines ECC-462 Engine	332 Own 50, F800, F1 Own Exh g ', 4' x 4' x F '& Enh.)	B 6 8 8 8 6 6 8 8 8 6 8 8 8 8 8 8 8 8 8	3 56k3 : 3 8k3'; 7 8k3'; 7 9k4 57k3' 3 1 k3 7 k	0, T8	208 100, C7 19C 19C 9	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH	0, C800, L19C L16BE L19C J19T28 L13CE L13CE L13CE L14CE L14CE L14CE L14CE L16BE	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9BTH L9STH L9STH L9STH L5CH L8 L9 L9 L9 L9 L9 L9 L12CE L10AE L13CE L14CE	198TH   198TH   1900, 8750 Hz   198TH   1100   198TH   112T   198TH   198TH	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9ATH Z9ATH Z9 Z9 Z9 Z9 Z9ETH Z12CE Z10AR	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R107 R107 R107	R103 R103 R103 R103 R104 R104 R103 R103 R103 R101 R102 R103 R103 R103 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240 P241 P245	P237 P236 P237 P239 P237 P236 P237 P232 P235 P236 P236 P237 P238 P238 P238 P239 P240	
7.59 9-71 7.64 8.73 0.64 0.64 0.64 2.64 0.575 5-75 1.75 4.75 6.75 0.75	F800, F900, T800, C800, C900, EAM., [8-N. (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng ) EEK has 7s, Exh 223 Engine ECS (302 Eng ), ECT (332 Eng), (315st) 7s, EDL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Soats 292 EEK Engine with Soats 292 EEK Engine with Soats 252 EER Engine State (1970) EET, 200 EFZ, Int. 10C1 170, 200 (335st) 4, 250 Engines 289 Engines 289 Engines 289 Engines 330 EFU, (330 EFV, 361 EFW; 391 EFY (45st) 240, 300 Engines 293, 302 Engines 293, 302 Engines ECC-462 Engines ECC-462 Engines	332 Own 50, F800, F1 Own Exh g ', 4' x 4' x F '& Enh.)	B T 8 6 8 8 8 8 6 6 6 8 8 8 8 8 8 8 8 8 8	3 56k3: 3 8x3'; 700; T75 3'ix38'; 3'ix38'; 4':x3'; 3'ix3'; 4':x3'; 3':x2'; 4x2'; 4x2'; 4x2'; 4x3'; 4':x3.8; 4':x3.8;	1 373 3 373 3 373 3 373 3 373	208 100, C7 19C 19C 9	98TH 90 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH	0, C800, L19C L16BE L19C J19T28 L13CE L13CE L13CE L14CE L14CE L14CE L14CE L16BE	L9BTH C900, B7 L9BTH L10 L9BTH L12T L9BTH L9ATH L9CH L8 L9 L9 L9 L9TH L12CE L10AR L13CE	198TH   198TH   1900, 8750 Hz   198TH   1100   198TH   112T   198TH   198TH	Z9BTH ve 14 Exhau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R107 R107 R107	R103 R103 R103 R103 R104 R104 R103 R103 R103 R103 R103 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P236 P240 P240 P240 P241 P245 P247	P237 P236 P237 P239 P237 P236 P237 P232 P236 P236 P236 P238 P238 P238 P238 P239 P240	
7-59 9-71 7-64 8-73 0-64 0-64 0-64 5-75 5-75 1-75 4-75 0-75 4-75 0-75 8-75	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng ) EEK has 'n Exh 223 Engine CC (302 Eng ), ECT (332 Eng), (311 Hz 312 Pt 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 332 · Own 50, F800, F9 Own Exh. g · 4 · x4 · x4 · x > ' \u03c4 Exh.)	B B 8 8 8 8 8 8 8 6 6 6 8 8 8 8 8 8 8 8	3 56x3 " 3 8x3", 700, T35x 31x3% 31x3% 41x3% 31x2", 31x2", 4x2", 4x2", 4x2", 4x2", 4x3", 4x3", 4x3.83 41x3.83 41x3.83 41x3.83 41x3.83 41x3.83	0, T8 % % % % % % % % % % % 1, 373 333 373 373	208 100, C7 19C 19C 9 9 208 208 21DR	98TH 00 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH 12CE	0, C800, L19C L16BE L19C J19T28 L13CE L13CE L13CE L14CE L14CE L14CE L14CE L16BE	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L9ATH L98TH L5CH L8 L9 L9 L9 L9 L9 L9 L10AR L13CE L14CE L14CE L14J30	198TH   198TH   198TH   100, 8750 Hz   100, 8750 Hz   100, 8750 Hz   12T   198TH   198TH   198TH   19   19   19   19   19   19   19   1	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE Z10AR	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R105 R105 R105 R107 R108 R107	R103 R103 R103 R103 R104 R103 R103 R103 R103 R103 R103 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240 P241 P245 P247 P247 P247	P237 P236 P237 P239 P237 P236 P237 P232 P236 P236 P238 P238 P238 P238 P238 P239 P240	
7.59 9-71 7.64 8.73 0.64 0.64 0.64 5.75 5.75 5.75 4.75 6.75 0.75 8.75	F800, F900, T800, C800, C900, EAM, [8-N, (317)  EDB, EEH, EEJ (292 Eng * EEK has **), Exh 223 Engine ECS (302 Eng *, ECT (332 Eng; *, 69**ux3**ux**7, EDL (401 Eng.*), EDM *477 Eng.*, EDM *534 En 292 EEK Engone with Seats 292 EEK and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C** 170, 200 **3*ux3**u*, 250 Engines 289, 302 (4x3) Engines 289, 302 (4x3) Engines 300 EFU, 1330 EFV, 361 EFW; 391 EFY (44**ux3**) 240, 300 Engines 502, 390 Engines ECC *462 Engine 427 Engine (1966-67 Take L16E Exhaust . 429, HDT850, HD950, HDT950, HD10004 CUM-NM 360 CID, 390 CID, 428 CID	, 332 · Own 50, F800, F9 Own Exh. g · 4 · x4 · x4 · x > ' \u03c4 Exh.)	B B 8 8 8 8 8 8 8 6 6 6 8 8 8 8 8 8 8 8	3 56x3 : 3 8x3'; 750; 750; 750; 750; 750; 750; 750; 750	0, T8 % % % % % % % % % % % 1, 373 333 373 373	208 190, C7 19C 19C 9 208 21DR 208 21DR	98TH 00 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH 12CE	0, C800, L19C L16BE L19C J19T28 L13CE L13CE L16BE L9 L13CE L14CE L16E L14CE L16E	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L9ATH L98TH L5CH L8 L9 L9 L9 L9 L9 L9 L10AR L13CE L14CE L14CE L14J30	198TH   198TH   198TH   100, 8750 Hz   100, 8750 Hz   100, 8750 Hz   12T   198TH   198TH   198TH   19   19   19   19   19   19   19   1	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE Z10AR	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R105 R105 R105 R107 R108 R107	R103 R103 R103 R103 R104 R103 R103 R103 R103 R103 R103 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240 P241 P245 P247 P247 P247	P237 P236 P237 P239 P237 P236 P237 P232 P236 P236 P238 P238 P238 P238 P238 P239 P240	
7-59 9-71 7-64 8-73 0-64 0-64 2-64 0-64 5-75 5-75 4-75 6-75 0-75 1P30	F800, F900, T800, C800, C900, EAM, [8-N, (317)  EDB, EEH, EEJ (292 Eng * EEK has **), Exh 223 Engine ECS (302 Eng *, ECT (332 Eng; *, 69**ux3**ux**7, EDL (401 Eng.*), EDM *477 Eng.*, EDM *534 En 292 EEK Engone with Seats 292 EEK and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C** 170, 200 **3*ux3**u*, 250 Engines 289, 302 (4x3) Engines 289, 302 (4x3) Engines 300 EFU, 1330 EFV, 361 EFW; 391 EFY (44**ux3**) 240, 300 Engines 502, 390 Engines ECC *462 Engine 427 Engine (1966-67 Take L16E Exhaust . 429, HDT850, HD950, HDT950, HD10004 CUM-NM 360 CID, 390 CID, 428 CID	, 332 · Own 50, F800, F9 Own Exh. g · 4 · x4 · x4 · x > ' \u03c4 Exh.)	B	3 56x3 : 3 8x3'; 750; 750; 750; 750; 750; 750; 750; 750	0. T1 1% 1% 1% 1% 1% 1% 1% 1% 1% 1	208 190, C7 19C 19C 9 208 21DR 208 21DR	98TH 00 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH 12CE	0, C800, L19C L16BE L19C J19T28 L13CE L13CE L16BE L9 L13CE L14CE L16E L14CE L16E	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L9ATH L98TH L5CH L8 L9 L9 L9 L9 L9 L9 L10AR L13CE L14CE L14CE L14J30	198TH   198TH   198TH   100, 8750 Hz   100, 8750 Hz   100, 8750 Hz   12T   198TH   198TH   198TH   19   19   19   19   19   19   19   1	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE Z10AR	R107 st R107 R105 R107 R104 R104 R106 R103 R104 R105 R105 R105 R105 R107 R107 R108 R108	R103 R103 R103 R103 R104 R103 R103 R103 R103 R103 R103 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P242 P236 P239 P240 P240 P241 P245 P247 P247 P247	P237 P236 P237 P239 P237 P236 P237 P232 P236 P236 P238 P238 P238 P238 P238 P239 P240	
7-59 9-71 7-64 8-73 0-64 0-64 2-64 0-5-75 2-65 5-75 4-75 0-75 8-75 1P30 9-48 9-52	F800, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has 3) Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (319,x319,x17) EDL (401 Eng.), EDM (477 Eng.), EDM (534 Eng) 292 EEK Engone with Seats 292 EEK and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (31,x313,x1), 250 Engines 289 302 (4x3) Engines 289, 302 (4x3) Engines 306 EFU (330 EFV, 361 EFW; 391 EFY (41,x31), 240, 300 Engines 502, 390 Engines 602 (462 Engine 477 Engine (1966-67 Take L16E Enhaust 429, HDT850, HD950, HDT950, MD10004 CUM-NM 360 CID, 390 CID, 428 CID Reseater Pilot is used for 3, Guide Size. Specia	. 332 · Own 50, F800, F9 Own Exh. Ev. 4 · x4 · x4 · x F · 4 · x F	B B 8 6 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8	3 56x3 : 3 8x3'; 700, T75' 3':x3%; 3':x3%; 3':x3%; 3':x3%; 3':x3%; 3':x3%; 3':x2%; 4x2'; 3':x3%; 4':x3.8:4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3.8*4':x3	0. Ta 0. Ta 1. See 1.	208 000, C7 19C 19C 19C 9 9 9 208 3 21DR 3 21DR vailable	98TH 00 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH 12CE	0, C800, L19C L15E L19C L19CE L13CE L16E L16E L14CE L14C L16BE	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L12T L98TH L5CH L8 L9 L9 L9 L9 L9 L12CE L10AR L13CE L14CE	198TH   198TH   198TH   110   112T   198TH   112T   198TH   198TH   198TH   198TH   198TH   198TH   198TH   191TH   191TH   191TH   112CE   110AR   113CE	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE Z10AR	R107 st R107 R105 R105 R104 R106 R106 R105 R107 R107 R107 R107 R107 R107 R107 R107	R103 R103 R103 R103 R103 R104 R103 R103 R103 R103 R103 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P247 P239 P239 P240 P239 P240 P240 P241 P241 P245 P247 P247 P247 P247 P247	P237 P236 P237 P239 P237 P239 P237 P236 P236 P236 P238 P238 P238 P238 P238 P238 P238 P238	
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 0 - 64 5 - 75 5 - 75 5 - 75 1 - 75 6 - 75 0 - 75 8 - 75 0 - 75 1 - 75 9 - 48 9 - 52 9 - 48 9 - 52 9	F800, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has % Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (37%x37%x7, EDL (401 Eng.), EDM (477 Eng.), (37%x37%x7, 292 EEK Engine with Soars 292 EEH and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (37%x37%, 250 Engines 289 Engines 289 302 (4x3) Engines 330 EFU, (330 EFV, 361 EFW; 391 EFY (44xx37), 240, 300 Engines 352, 390 Engines 552, 390 Engines 6CC-462 Engine 427 Engine (1966-67 Take L16E Exhaust , 429, HDT\$50, HD550, HDT\$50, HD10004 CUM-NH 360 C1D, 390 C1D, 428 C1D Reseater Filot is used for % Guide Size. Special	332 · Own 50, F800, F1 Own Exh. p '. 4 : x4 'u. > 'u. Exh.) 460 180, NH220 Own	B B 8 6 8 8 8 8 6 6 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 6 6 8 8 8 8 8 8 6 6 8 8 8 8 8 8 6 6 8 8 8 8 8 8 6 6 8 8 8 8 8 8 8 8 6 6 8	3 5663 3 883', 700, T75' 31'4384, 31'4384, 41'433', 31'438', 31'438', 41'433', 44'21', 42', 42', 42', 42', 42', 42', 42', 42	7. T3 0. T3 7. S.	208 000, C7 19C 19C 19C 9 9 9 1 208 2 21DR 2 21DR 2 21DR 2 21DR	98TH 00 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH 12CE	0, C800, L19C L15E L19C J19T28 L13CE L13CE L13CE L16BE L14CE L14CE L14CE L14CE L14E L14IBE	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L12T L98TH L5CH L8 L9 L9 L9 L9 L9 L13CE L14CE L14J30 L12CE L14J30 L12CE L15CPH L5CPH L5CPM	198TH   198TH   198TH   110   198TH   112T   198TH   112T   198TH   198TH   198TH   198TH   198TH   112CE   110AR   113CE   112CE   112CE	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE Z10AR	R107 st R107 R107 R105 R107 R104 R104 R106 R103 R105 R105 R105 R105 R105 R105 R107 R107 R107 R108 R107 R107 R108 R103 R104 R103 R107 R107 R107 R107 R107 R107 R107 R107	R103 R103 R103 R103 R103 R103 R104 R103 R103 R103 R103 R104 R104 R104 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P240 P245 P247 P239 P239 P240 P240 P240 P241 P245 P247 P247 P247 P247 P247 P247 P247 P247	P237 P237 P237 P239 P237 P239 P237 P236 P237 P238 P238 P238 P239 P241 P238 P239 P241 P238 P239 P241 P238 P239 P241 P238 P239 P241 P238 P241 P241 P241 P241 P241 P241 P241 P241	
7 - 59 9 - 71 7 - 64 8 - 73 0 - 64 0 - 64 2 - 64 5 - 75 5 - 75 5 - 75 1 - 75 4 - 75 0 - 75 8 - 75 1 - 75 9 - 48 9 - 52 9 - 48 9 - 52 3 - 64	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng ) EEK has 'n Exh 223 Engine CCS (302 Eng ), ECT (332 Eng), (31% 31% 17) FDL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Saats 292 EEK Engine with Saats 292 EEH and EE] Engines without Saats 282 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (31% 331%), 250 Engines 289 Engines 280 ECC (462 Engine 1966-67 Take L16E Enhaust 429, HDT850, HD950, HDT950, HD10004 CUM-NM 360 CID, 390 CID, 428 CID Reseater Pilot is used for 3 Guide Sixe. Special Ford-Ferguson 2N, 8N, 9N Ford 8N, 8NAM Ford NAA, NAB, NCA, NDA (Eng. EAE, EAF) 134 Eng. 172 Eng 31% 31%, 172 Desel	. 332 · Own 50, F800, F9 Own Exh. Ev. 4 · x4 · x4 · x F · 4 · x F	B B 8 6 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8	3 5663 3 8831; 7000, T75 3148314, 3148314, 3148314, 3148214, 3148214, 4124	0. T8	208 000, C7 19C 19C 19C 9 9 9 1 208 2 21DR 2 21DR 2 21DR 2 21DR	98TH 00 C75 98TH 10 98TH 11 12 98TH 12 98TH 12 98TH 12 6 6 6 6 6 6 6 6 6 11 11	0, C800, L19C L19C L19C J19T28 L13CE L13CE L13CE L14CE L14CE L14CE L14CE L14CE L14CE L16BE	L98TH C900, B7 L10 L98TH L12T L98TH L12T L98TH L5CH L8 L9 L9 L9 L9 L10AR L13CE L14CE	198TH   198TH   198TH   110   198TH   112T   198TH   112T   198TH   198TH   198TH   198TH   198TH   112CE   110AR   113CE   112CE   112CE	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE Z10AR	R107 st R107 R107 R105 R107 R104 R104 R105 R105 R105 R105 R105 R105 R105 R105	R103 R103 R103 R103 R103 R104 R103 R103 R103 R103 R103 R104 R104 R104 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P246 P247 P247 P239 P239 P240 P240 P240 P241 P245 P247 P247 P247 P247 P247 P247 P247	P237 P237 P239 P237 P239 P237 P236 P236 P236 P238 P238 P238 P238 P238 P238 P238 P238	
7 - 59 9 - 71 7 - 64 8 - 64 8 - 64 0 - 64 0 - 64 5 - 75 5 - 75 5 - 75 6 - 75 6 - 75 8 - 75 9 - 48 9 - 48 9 - 48 9 - 56 7 - 64 1 - 66	F800, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has 31 Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (31843)31 74 EDL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Seats 292 EEH and EEJ Engines without Seats 282 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (3143)31, 250 Engines 289 302 (4x3) Engines 289 Engines 289, 302 (4x3) Engines 304 EFU, 1330 EFV, 361 EFW; 391 EFY (41443)3 240, 300 Engines 522, 390 Engines 6CC, 462 Engine 427 Engine (1966-67 Take L16E Exhaust 429, HDT850, HD950, HD7950, MD10004 CUM-NM 360 CID, 390 CID, 428 CID Reseater Pilot is used for 31 Gaide Size. Special Ford-Ferguson 2N, 8N, 9N Ford 8N, 8NAN Ford NAA, NAB, NCA, NDA (Eng. EAE, EAF) 134 Eng., 172 Eng. 314374, 172 Diesel 144, 1440	. 332 · Own 50, F800, F9 Own Exh. Ev. 4 · x4 · x4 · x 1 · 7 · Exh.) 460 180, NH220 I production Own	B B 8 6 8 8 8 8 8 6 6 8 8 8 8 6 6 8 8 8 8	3 56x3 1 3 8x3	7. T8	208 000, C7 19C 19C 19C 9 9 1208 1208 121DR 1208 1208 121DR 10 10	98TH 00 C75 98TH 10 98TH 12T 98TH 98TH 8 9 98TH 12CE	0, C800, L19C L18BE L19C J19T28 L13CE L13CE L14CE L14CE L14CE L14BE L14J30 L14J	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L12T L98TH L5CH L8 L9 L9 L9 L9 L9 L12CE L10AR L13CE L14CE	198TH   198TH   100	Z9BTH ree 'u Exhau Z9BTH Z10 Z9BTH Z10 Z9BTH Z9ATH Z9ATH Z9ATH Z9ATH Z9ATH Z12CE Z10AR Z14/30 Z12CE	R107 st R107 R105 R107 R104 R104 R104 R105 R105 R105 R105 R105 R105 R105 R105	R103 R103 R103 R103 R103 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P246 P247 P247 P239 P242 P236 P240 P240 P241 P245 P247 P247 P247 P247 P247 P247 P237 P237 P237 P239 P240 P240 P241 P245	P237 P237 P237 P237 P237 P237 P237 P236 P237 P238 P238 P238 P238 P238 P238 P238 P238	
7 - 59 9 - 71 8 - 73 0 - 64 0 - 64 0 - 64 0 - 64 5 - 75 5 - 75 4 - 75 6 - 75 8 - 75 1 - 75	F800, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has 1/1 Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (311/4/31/1/17) EDL (401 Eng, 1, EDM (477 Eng), (311/4/31/1/17) 1792 EEK Engine with Seats 1792 EEH and EEJ Engines without Seats 1792 EEH and EEJ Engines without Seats 1793 EEH and EEJ Engines without Seats 1794 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 1795 (311/4/31/1/2) 1795 302 (4/3) Engines 1899 Engines 1899 302 (4/3) Engines 1899 Engines 1899 Engines 1899 Engines 1890 Engines 1891 300 EFW, 361 EFW; 391 EFY (4/4/4/31/1/2) 1890 Engines 1892 Engine 1996 (4/2) Engine 1892 (100 EEN) 1890 Engines 1893 (100 Engines) 1890 Engines 1893 (100 Engines) 1890 Engines 1891 (100 Engines) 1890 Engines 1891 (100 EEN) 1890 Engines 1892 (100 EN) 1893 Engines 1893 (100 EN) 1893 Engines 1894 (100 EN) 1894 EN) 1895 Engine 1895	(332 · Own 50, F800, F1 Own Esh. F '- 4 · x 4 · x 1 · 2 · Esh.) 460 180, NH220 Own Own	B	3 56x3 1 3 8x3 1 2 1 3 1 3	0. TR	208 000, C7 19C 19C 19C 9 9 1208 1208 121DR 1208 1208 121DR 10 10	98TH 00 C75 98TH 10 98TH 11 12 98TH 12 98TH 12 98TH 12 6 6 6 6 6 6 6 6 6 11 11	0, C800, L19C L18GE L19C L19C L19C L19C L19C L19C L19C L13CE L13CE L14CE L19CE	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L12T L98TH L5CH L8 L9 L9 L9 L9 L9 L9 L13CE L14CE L14J30 L12CE L14J30 L14P L14P L14P L14P L14P L14P L14P L14P	198TH   198TH   198TH   110   198TH   112T   198TH   112T   198TH   198TH   198TH   198TH   198TH   112CE   110AR   113CE   112CE   112CE	Z9BTH ree 'u Eshau Z9BTH Z10 Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z9BTH Z8 Z9 Z9 Z9BTH Z12CE Z10AR	R107 st R107 R105 R107 R104 R104 R104 R105 R105 R105 R105 R105 R105 R105 R107 R107 R107 R107 R108 R108 R105 R105 R105 R105 R105 R105 R105 R105	R103 R103 R103 R103 R103 R103 R104 R104 R104 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P246 P247 P247 P239 P239 P240 P240 P240 P240 P241 P245 P247 P247 P247 P247 P247 P247 P247 P247	P237 P237 P237 P237 P237 P237 P236 P237 P238 P238 P238 P238 P239 P241 P238 P238 P238 P239 P241 P238 P231 P231 P231 P231 P231 P231 P231 P231	
7-59 97-71 18-73 10-64 10-64 10-64 10-64 10-64 10-65 10-75 10-75 10-75 10-75 11-75 11-75 11-75 11-75 11-71 11-71	F800, F900, T800, C800, C900, EAM, [8-N, (317) 1956 F700, F7 EDB, EEH, EEJ (292 Eng 1 EEK has 1/1 Exh 223 Engine ECS (302 Eng 1), ECT (332 Eng), (311/1431/147) FILL (401 Eng.), EDM (477 Eng.), EDM (534 En 292 EEK Engine with Sharts 292 EEK Engine with Sharts 292 EEK Engine with Sharts 292 EEH and EEJ Engines without Sharts 292 EEH and EEJ Engines without Sharts 292 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (311/1431/14), 250 Engines 289 Engines 289 Engines 289 302 (4x3) Enginer 330 EFU (330 Engines 352, 390 Engines ECC-462 Engines ECC-462 Engines 427 Engine (1966-67 Take L16E Enhaust 429, HDT850, HD950, HDT950, HD10004 CUM-NH 360 CID, 390 CID, 428 CID Reseater Pilot is used for 1/2 Guide Size. Special Ford-Ferguson 2N, 8N, 9N Ford 8N, 8NAN Ford NAA, NAB, NCA, NDA (Eng. EAE, EAF) 134 Eng., 172 Eng. 311/1437/14, 172 Diesel 144, 1440 223 Gbs.	332 · Own 50, F800, F1 Own Esh. F '- 4 · x 4 · x 1 · 2 · Esh.) 460 180, NH220 Own Own	B T S S S S S S S S S S S S S S S S S S	3 563 1 3 833 1 3 833 1 3 833 1 3 833 1 3 833 1 3 833 1 3 833 1 3 83 1 3 8 3 1 3 8 3 1 3 1	7. T16. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	208 000, C7 19C 19C 19C 9 9 1208 1208 121DR 1208 1208 121DR 10 10	98TH 100 C75 98TH 10 98TH 12T 98TH 12T 98TH 12T 98TH 12T	0, C800, L19C L18GE L19C J19TES L13CE L13CE L14CE L14CE L14CE L14CE L14CE L14CI L16IE L16I	L98TH C900, B7 L10 L98TH L12T L98TH L12T L98TH L5CH L8 L9 L9 L9 L9 L9 L10AR L13CE L14(20 L12CE L14(30 L12CE L14(30 L12CE L14(30 L12CE L14(30 L12CE L14(30) L12CE L14(30) L12CE L14(30) L12CE	198TH   198TH   100	Z9BTH ree 'u Exhau Z9BTH Z10 Z9BTH Z10 Z9BTH Z9ATH Z9ATH Z9ATH Z9ATH Z9ATH Z12CE Z10AR Z14/30 Z12CE	R107 st R107 R105 R107 R104 R104 R104 R105 R105 R105 R107 R107 R107 R108 R108 R103 R103 R103 R103 R103 R103 R103 R104 R104 R104 R105 R105 R105 R105 R105 R105 R105 R105	R103 R103 R103 R103 R103 R103 R103 R104 R103 R103 R103 R103 R103 R103 R104 R104 R104 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P246 P247 P239 P239 P240 P240 P240 P241 P245 P241 P245 P247 P247 P247 P247 P247 P247 P249 P240 P240 P240 P240 P240 P240 P240 P240	P237 P237 P239 P237 P239 P237 P236 P237 P238 P238 P238 P238 P238 P238 P238 P238	
7-59 9-71 18-73 10-64 10-64 10-64 10-64 10-75 10-75 10-75 10-75 10-75 11-70 11-71 11-71 13-66	FB00, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has 31 Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (3114,3114) 74 EDL (401 Eng.), EDM (477 Eng.), (3114,3114) 74 E92 EEK Engone with Seats 292 EEK and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (3114,314), 250 Engines 289 302 (4x3) Engines 289 Engines 289 302 (4x3) Engines 306 EFU (330 EFV, 361 EFW; 391 EFY (4144)31; 240, 300 Engines 522, 390 Engines 6CC, 462 Engine 427 Engine (1966-67 Take L16E Enhaust 429, HDT850, HD950, HD7950, MD10004 CUM-NM 360 CID, 390 CID, 428 CID Reseater Pilot is used for 31 Gaide Size. Special Ford-Ferguson 2N, 8N, 9N Ford 8N, 8NAN Ford NAA, NAB, NCA, NDA (Eng. EAE, EAF) 134 Eng., 172 Eng. 3114370, 172 Diesel 144, 1440 223 Gas 242 Diesel 220 Diesel 220 Diesel	332 · Own 50, F800, F1 Own Esh. F '- 4 · x 4 · x 1 · 2 · Esh.) 460 180, NH220 Own Own	B	3 56x3 1 3 8x3 1 2 1 3 1 3	0. T\$ 10. 1% 16. 16. 16. 16. 16. 16. 16. 16. 16. 16.	208 000, C7 19C 19C 19C 9 9 1208 1208 121DR 1208 1208 121DR 10 10	98TH 10 98TH 10 98TH 10 98TH 12T 98TH 12T 98TH 12T 98TH 12T 98TH 6 6 11 12CE	0, C800, L19C L18BE L19C J19T28 L13CE L14CE L14CE L14CE L16BE L14L L14L L14L L14L L14L L15L L15L L15L	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L12T L98TH L98TH L5CH L8 L9 L9 L9 L9 L9 L9 L9 L12CE L10AR L12CE L14J30 L12CE L14J30 L12CE L14J30 L12CE L5CPH L11 L98H5 L4P L98H5 L4P L98H5 L4B L68P L98H5 L16BA	198TH   198TH   100	Z9BTH ree 'u Exhau Z9BTH Z10 Z9BTH Z10 Z9BTH Z9ATH Z9ATH Z9ATH Z9ATH Z9ATH Z12CE Z10AR Z14/30 Z12CE	R107 st R107 R105 R107 R104 R104 R106 R105 R105 R107 R107 R107 R107 R107 R107 R107 R107	R103 R103 R103 R103 R103 R103 R104 R104 R103 R103 R101 R102 R103 R104 R104 R104 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P246 P247 P247 P239 P239 P240 P240 P240 P240 P241 P245 P247 P247 P247 P247 P247 P247 P247 P247	P237 P237 P239 P237 P239 P237 P236 P236 P236 P236 P238 P238 P239 P241 P238 P239 P241 P238 P239 P241 P238 P239 P241 P237 P237 P238 P239 P241 P237 P241 P238 P241 P237 P241 P241 P241 P241 P241 P241 P241 P241	
7-59 97-76 18-73 10-64 10-64 10-64 10-64 10-65 10-75 10-	F800, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has 1/1 Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (311/4/31/1/17) EDL (401 Eng, 1, EDM (477 Eng), (311/4/31/1/17) EVEX EEK Engine with Soars 292 EEH and EEJ Engines without Soars 292 EEH and EEJ Engines without Soars 293 EEH and EEJ Engines without Soars 294 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (311/4/31/1/2), 250 Engines 289 Engines 289 302 (463) Engines 380 EFU, (330 EFV, 361 EFW; 391 EFY (44/4/31/1/2) 240, 300 Engines 352, 390 Engines ECC-462 Engine 477 Engine (1966-67 Take L16E Exhaust , 429, HDT850, HD950, HDT950, HD10004 CUM-NH 360 C1D, 390 C1D, 428 C1D Reseater Filot is used for 1/2 Guide Sixe. Special Ford BN, 8NAN Ford SNAN, 8NAN, 9N Ford SNA, NAN, NDA (Eng, EAE, EAF) 134 Eng, 172 Eng, 311/4/31/4, 172 Diesel 144, 1440 223 Gs 242 Diesel 220 Diesel (1114E10 or §14E10 Special Production 1527 Diesel	332 · Own 50, F800, F1 Own Esh. F '- 4 · x 4 · x 1 · 2 · Esh.) 460 180, NH220 Own Own	B T T S S S S S S S S S S S S S S S S S	3 563 1 3 833 1 3 833 1 3 833 1 3 833 1 3 833 1 3 833 1 3 833 1 3 83 1 3 8 3 1 3 8 3 1 3 1	0. TE 18 18 18 18 18 18 18 18 18 18 18 18 18	208 00, C7 19C 19C 19C 9 9 120B 121DR 121DR 10 10	98TH 10 98TH 10 98TH 10 98TH 12T 98TH 12T 98TH 12T 98TH 12T 98TH 6 6 11 12CE	0, C800, L19C L18GE L19C J19TES L13CE L13CE L14CE L14CE L14CE L14CE L14CE L14CI L16IE L16I	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L12T L98TH L98TH L5CH L8 L9 L9 L9 L9 L9 L9 L9 L12CE L10AR L12CE L14J30 L12CE L14J30 L12CE L14J30 L12CE L5CPH L11 L98H5 L4P L98H5 L4P L98H5 L4B L68P L98H5 L16BA	198TH   198TH   100	Z9BTH ree 'u Exhau Z9BTH Z10 Z9BTH Z10 Z9BTH Z9ATH Z9ATH Z9ATH Z9ATH Z9ATH Z12CE Z10AR Z14/30 Z12CE	R107 st R107 R105 R105 R106 R106 R106 R106 R105 R105 R105 R105 R105 R105 R105 R105	R103 R103 R103 R103 R103 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P247 P246 P247 P247 P249 P239 P239 P240 P240 P240 P241 P245 P247 P247 P247 P247 P247 P247 P247 P248	P237 P236 P237 P236 P237 P239 P237 P236 P237 P238 P238 P238 P238 P238 P238 P238 P238	
7. 59 9. 71 8. 73 0. 64 0. 64 0. 64 0. 64 0. 64 0. 64 0. 65 0. 75 1. 75 6. 75 6. 75 6. 75 1. 75 6. 75 1. 75 6.	FB00, F900, T800, C800, C900, EAM, [8-N, (317) EDB, EEH, EEJ (292 Eng 1 EEK has 31 Exh 223 Engine ECS (302 Eng 1, ECT (332 Eng), (3114,3114) 74 EDL (401 Eng.), EDM (477 Eng.), (3114,3114) 74 E92 EEK Engone with Seats 292 EEK and EEJ Engines without Seats 262 EER Engine 144 EEN, EEV (170 EET, 200 EFZ, Int. 10C) 170, 200 (3114,314), 250 Engines 289 302 (4x3) Engines 289 Engines 289 302 (4x3) Engines 306 EFU (330 EFV, 361 EFW; 391 EFY (4144)31; 240, 300 Engines 522, 390 Engines 6CC, 462 Engine 427 Engine (1966-67 Take L16E Enhaust 429, HDT850, HD950, HD7950, MD10004 CUM-NM 360 CID, 390 CID, 428 CID Reseater Pilot is used for 31 Gaide Size. Special Ford-Ferguson 2N, 8N, 9N Ford 8N, 8NAN Ford NAA, NAB, NCA, NDA (Eng. EAE, EAF) 134 Eng., 172 Eng. 3114370, 172 Diesel 144, 1440 223 Gas 242 Diesel 220 Diesel 220 Diesel	332 · Own 50, F800, F1 Own Exh. - 7u Euh.) 460 180, NH220 I production Own Own	B T T 8 8 8 8 8 8 8 6 6 6 6 6 6 8 8 8 8 8	3 56x3 1 3 8x3 1 2 1 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	0. T8 % % % % % % % % % % % % % % % % % %	208 00, C7 19C 19C 19C 9 9 9 208 21DR 21DR 21DR 10 10 10	98TH 10 98TH 10 98TH 112T 98TH 12T 98TH 12T 98TH 12T 98TH 12T 98TH 12CE	0, C800, L19C L18GE L19C L19CE	L98TH C900, 87 L98TH L10 L98TH L12T L98TH L12T L98TH L5CH L8 L9	198TH   198TH   100	Z9BTH ree 'u Exhau Z9BTH Z10 Z9BTH Z9BTH Z9ATH Z9ATH Z9ATH Z9ATH ZB Z9 Z9 Z9BTH Z12CE Z10AR Z14j30 Z12CE Z10AR	R107 st R107 R105 R105 R106 R106 R106 R108 R105 R105 R105 R105 R105 R107 R107 R107 R108 R108 R105 R105 R105 R105 R105 R105 R105 R105	R103 R103 R103 R103 R103 R104 R103 R103 R103 R103 R103 R104 R104 R104 R104 R104 R104 R104 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P245 P245 P246 P247 P239 P239 P239 P240 P240 P240 P241 P245 P247 P247 P247 P247 P247 P247 P247 P249 P249 P249 P249 P249 P249 P249 P249	P237 P236 P237 P236 P237 P237 P236 P237 P236 P237 P238 P239 P240 P238 P238 P238 P239 P241 P238 P239 P241 P238 P239 P241 P238 P237 P236 P241 P237 P238 P239 P241 P238 P239 P241 P238 P239 P241 P238 P239 P241 P239 P241 P239 P241 P241 P241 P241 P241 P241 P241 P241	P P P P P P P P P P P P P P P P P P P

#### GMC TRUCKS AND INDUSTRIAL ENGINES

Year	Model	Make	Eng. Cyl	165	Pilot Size	Cast lat	Iron Exh.	Lee Int.	VALVE Alloy Exh	SEATS Chromaile Exh.	y Lee-Lite Exh	K-O (	Cutter Exh			e Crim	SEAT C I. Wh. Enh.	En. Pil
	278, 301 (3%a)4%)	Own		35x4%		16C	10AU	L16C	LIDAU	JIOAU*	Z10AU*		R104			P243		PBS
	426, 451 (43:45), 477 (4):45)	Owa		41/115		17	138X	L17	L13BX	-	21000	R107	R105	-		P245	P241	PBS
	. 228, 236 (3%x3%), 248 (3%x3%), 256, 270 (3%x	s3%i Own		31/231%		12C		LIZC	L7ATH		Z7ATH	R104	R103			P239	P237	
	Specify 45° Ring for 270° Engine and 1950 Mode		_															
	503 (361-4%x4's), 426 (4%x5) 318, 360 (4%x4's)	Own Own	6	4%x5% 3%x4%		17 16	138X 10AU	L17 L16	L138X L10AU		Z TOAU	R107 R106	R105 R104	45 30	45 45	P245 P243	P241 P243	MS MS
951-58		Own	6	5°134°3		13A	IOAU	L13A	LIGAU	JIOAU JIOAU	ZIOAU	R105	R103			P241	F236	PMG
	288, 316 (3%u3%)	Own	ĭ	34.2		138	13	L138	LII	JIOAO	21000	R105	R103			PZ41	P236	P84
	347, 336 (3%x3%)			3%±3%		17C		L17C	L9BSH10		Z985H10	<b>£106</b>	R 103		45	P242		P84
	370 (%+.15 EXH.)			4±3′K	*			L16BE				R 105	R103	45	45	P240	. — .	784
	2-71, 3-71, 4-71, 6-71	Diesel 2 Diesel 2		4%±5 4%±5	% %				LBATH L985H	JEATH"	ZBATH Z9BSH*		R103		45		P237 P237	P84 P84
	2-71, 3-71, 4-71, 6-71 12 valves per cyl.) 71 Series (4 valves per cyl.)			43x5	×				LATHS	19 <b>8</b> 5H	ZABOU.		<b>#103</b>		30 30		P232	
	6-110 Series (2 valve)	Owe		5x5.6	14				L16D 15		Z16DI15*		R107		30		P245	
958-68	6-110 Series 14 valves per cpl.)			5±5%.	ж,				LESTH				R103		30		7236	
	53 Series Diesel (2 valves)			3%x4%	χ.				LBE	JEE			R102	60			P234	
	53 Series Diesel (4 valves)		. 6	3%x4%	X					J28TH30			Spec.		60		1229	
	153, 194, 230, 250, 292 305A, 305B, 305C, 305B, 305E		4,6 V6	3%x3% 4%x3%		18	9 10 <b>R</b>	L14CE	LIOR	j9 110au	Z9	R105	R103		45 45	P240 P245	P236 P237	PB4
	351, 351C, 401, 478, 702 (% Enhaust) 401, 47kx3	T.	V6			ZIDE		L10	F10X	J1OR	Z16H10	R108	R106	30	45	P247	P243	
	351E, 351M, 401M, 478M	_	V6			22R				J17H		R109	R106		45	P247	P243	PBS
966-73	D351				*	198			L1ZE	•	Z12E	R108	R104	45	45	P247	P239	
964-73	D478, DH478, 637 Gas, D & DH637 (% Exhaust)					25C		L25C		J17K16		R) 10		45	45	251	P243	P85
	307, 350 Engines (4x3%)	***		3'4x3'.	, pa	16C	9	L16C	L9	19	<b>Z9</b>	R106	R 103	45	45	<b>PZ4Z</b>	P236	P84
73.74	379 (Int. Ring 21DR), 432 (43:x3%),		,	4V -5F	v	378				1172		R 109	8100	30	20	8747	8747	Pin
77.75	478M (5%x3%) AR & Esh. 454 Engine			4%x4		228 21 DR	13		L13	17H  13	Z13	RIOS	R106			P247	PZ43 PZ40	
	at on Engines 360, 426, 503. Special production on				•	va	.,			1.0	2.5	~ - 0-0	.,.,	•,	,,	127/		. •,
34 SA	130, (135-4)-x51	HA		SCOT		:NG1 238	INES 22U	(HE	RCULE	<b>(5</b> )		B109	2109	30	321	P251	P247	PMS
	130, 1135-41-851 131, 1136-4 :s51	Owa	6	4'iz5	ž.			L21				R109	R108			P247	P247	PB6
	168, 169, 153, 184, 186-1, 187-1 - "b Exh.)	Own	6	5'ix7		32	32					R115	R115		30	P261	P261	P87
	175, 175-1, (176-5%x6) (177-5'xx6)	Own	6	5x6	×.	27C	278	L27C					#112	30	45	P 255	7255	P86
14.54	180-1-3-5 +1% Exh 1	Own		5 <b>±6</b>	14			L32	L27E			Ř115	R I 12			P261	P255	P\$7
	190-1-2-3-5 (" <sub>H</sub> Exh.)	Own		5'-×6	3			L30			ZZZAZH'		R110		45	P259	P251	P\$7
	-400, 440, 401, ("s: Esh.) -450, 470, 471 (5':x6', 480, 481 (5':x6) ("s: Esh	Own	6	51,27 546	14			F30			Z22AZH1 Z22AZH1		REIO		45 45	P259	P251	787 787
50-58		Uwa Owa	6	5x6 41.x5		30 21		L30 L21			TITATH	R109	R110		45	P259 P247	P251 P247	PB6
	2268-9, 2286-7 8 9, 3368-9, 3386-7 (7u Exh )	Own		51,x7		32		•••				R115	R114			P261	P259	787
	855, 935 -5'4n6+, 1091 -(5'ax7+ C'3a Enh.)	Own		5',x6		30		L30			Z22AZH	R112		45	45	P 255	P251	787
54 - 67		Own			16				L26CU				R110			P251	P251	P87
	-6156, 6182 -'51,x7+ est pilot 1993+ - :Requercs Ring 2% × 2% × 1; Spi est pilot 1993+ - :Requercs Ring 2% × 2% × 1; Spi	Own ecial Produc		5'+=6	3	<del>3</del> 0		L30			ZZZAZH.	RIIZ	R110	30	45	P255	PZ51	P <b>8</b> 7
				HER	CU	LES	ENG	SINE	<b>5</b>									
			_	4'414%					_									
	WXLC2 (WXLC 4441)	Own			16		16	L19	L16	116	Z16			45	45	P247		PB5
46 - 50	DIX48 Diesel	Own Own	4	3'.14		10	6	L19 L10	L16 L6	]   6  6	Z16	R108 R103	R106 R101	45	45	P247 P237	P243 P233	PBS PBS
<b>16</b> - 50	DIX48 Diesel HXA, HXB (516), HXC (51416), HXD (51216),	Ows	4	3'+14	×	10	6	L10	L6		Z16	R103	R101			P237	P233	PBS
16 - 50 30 - 60	DIX48 Diesel HXA, HXB (5x6), HXC (5½x6), HXD (5½x6), HXE (early engine-Z2C exit.)	Ows Ows	4	3'+x4 4'+x6	* *	10 25	6 22	L10 L25	L6 L22		Z16	R103	R101 R109	30	30	P237 P251	P233 P251	P85
16 - 50 10 - <b>60</b> 15 - 51	DIX48 Diesel HXA, HXB (5x6), HXC (5'4x6), HXD (5'4x6), HXE (early engine-22C exk.) BX (8X8)-2'x33	Ows	4	3'+14	×	10 25 6	6	L10	L6	16		R103 R111 R101	R101 R109 R736	30 30	30 30	P237 P251 P233	P233 P251 P231	M5 M7 M5
16 - 50 10 - 60 15 - 51 13 - 51	DIX48 Diesel HXA, HXE 15x61, HXC (515x61, HXD 1515x61, HXE 16x71 engine-22C exh.) BX 18X8-21x31 DFX, DFX8, DHX, DHX8-5x61   DFXC-51x61 DFXD, DHXC 10FXH, DFXHF-51x61	Ows Ows Ows Ows	4 6 4	3'+x4 4'+x6 2'+x3	¥ ¥ ¥	10 25 6 30	22 28	L10 L25 L6	L6 L22 L28		Z16 Z16 Z16	R103	R101 R109	30 30 45	30 30 45	P237 P251	P233 P251	P87
16 - 50 10 - 60 15 - 51 13 - 51 19 - 51 16 - 51	DIX48 Diesel HXA, HXB (5%), HXC (5%6), HXD (5%6), HXE (sarly engine-22C exk.) BX (8X8-2%3) DFX, (DFXB, DHX, DHXB-5%6) (DFXC-5%6) DFXD, DHXC (9FXH, DFXHF-5%6) DIX4D, DIX6 Dixes, DIX-83 (2%0)	Ows Ows Ows Ows 'ux4' Ows	4 6 6 6 1.6	3'+x4 4'+x6 2'+x3 4'+x6 5'+x6 3'+x4	* * * * * * * * * * * * * * * * * * *	10 25 6 30 30	5 22 28 16 16 6R	L10 L25 L6 L30 L30 L14	L22 L28 L16 L16 L6R	16  16  16	<b>Z</b> 16	R103 R111 R101 R113 R113 R105	R101 R109 R736 R106 R106 R101	30 30 45	30 30 45	P237 P251 P233 P259 P259 P241	P233 P251 P231 P243 P243 P233	P87 P87 P87 P87 P87
16 - 50 30 - 60 35 - 51 13 - 51 19 - 51 16 - 51	DIX48 Diesel HXA, HXB (5x6), HXC (51x6), HXD (51x6), HXE (early engine-22C exh.) BX (8X8-21x3) DFX, (DFXB, DHX, DHX8-5x6) ( DFXC-51x6) DFXD, DHXC (5FXH, DFXHF-51x6) DFXD, DHXC (5FXH, DFXHF-51x6) DIX4D, DHX6 Diesel, DIX-83 (21, (DIX6-272-3) DIXB. (DIXC-4x4)) (DIXD-41x4)	Ows Ows Ows Ows Ows Ows	4 6 4 6 4 6 4.6 2	3'+x4 4'+x6 2'+x3 4'+x6 5'+x6 3'+x4 3'+x4'+	% % % %	10 25 6 30 30 14	5 22 28 16 16 6R 6R	L10 L25 L6 L30 L30 L14 L16	L22 L28 L16 L16 L6R L6R	16  16  16  6R  6R	<b>Z</b> 16	R103 R111 R101 R113 R113 R105 R106	R101 R109 R736 R106 R106 R101 R101	30 30 45 45	30 30 45 45	P237 P251 P233 P259 P259 P241 P243	P233 P251 P231 P243 P243 P233 P233	P87 P95 P87 P87 P85 P85
6-50 0-60 5-58 3-58 9-58 6-58 6-58	DIX48 Diesel HXA, HXE 15x61, HXC 151x61, HXD 151x61, HXE 1sarty engine-22C eak.* BX 18X8-21x31 DFX, DFXB, DHX, DHX8-5x61   DFXC-51x61 DFXD, DHXC 10FXH, DFXHF-51x67 DIX4D, DIX6 Diesel, DIX-83 121, (DIX6-272-31 DIXB, DIXC-6x41)   DIX-83 121, (DIX6-272-31 DIX, DIXE, DIXC-31x41).	Ows Own Own Own Own Own Own	4 6 4 6 6 4.6 2 6	3'+x4 4'-x6 2'+x3 4'-x6 5'+x6 3'+x4 3'+x4'+ 3'+x4'+	************	10 25 6 30 30 14 16	5 22 28 16 16 6R 6R 6R	L10 L25 L6 L30 L30 L14 L16 L16	L6 L22 L28 L16 L16 L6R L6R	16  16  16  6R  6R	Z16 Z16	R103 R111 R101 R113 R113 R105 R106 R106	R101 R109 R736 R106 R106 R101 R101	30 30 45 45	30 30 45 45	P237 P251 P233 P259 P259 P241 P243 P243	P233 P251 P231 P243 P243 P233 P233 P233	P87 P87 P87 P87 P85 P85
6 50 0 60 5 51 3 51 9 51 6 51 6 51 6 60 8 60	DIX48 Diesel HXA, HXB (5%), HXC (5%), HXD (5%), HXE (sarly segme-22C enh.) BX (8X8-2%) DFX, (DFX8, DHX, DHX8-5%) (DFXC-5%), DFXD, DHXC (DFXH, DFXHF-5%), DFXD, DHXC (DFXH, DFXHF-5%), DIX4D, DIX6 Diesel, DIX-83 (2), (DIX6-272-3%), DIX8, (DIXC-4x4%), (DIXD-4%x4%), DIX (DIXC-4x4%), DIXH, DIXHF	Ows Ows Ows Ows Ows Ows Ows Ows	4 6 4 6 6 4.6 2 6	3'+x4 43-x6 2'+x3 43-x6 5'+x6 3'+x4 3'+x4'+ 3'+x4'+ 3'+x4'+	* * * * * * * * * * * * * * * * * * *	10 25 6 30 30 14 16 16	5 22 28 16 16 6R 6R 6R 9	L10 L25 L6 L30 L30 L14 L16	L6 L22 L28 L16 L16 L6R L6R L6R	16  16  16  6R  6R	<b>Z</b> 16	R103 R111 R101 R113 R113 R105 R106 R106 R107	R101 R109 R736 R106 R106 R101 R101 R101	30 30 45 45 45	30 30 45 45 45	P237 P251 P233 P259 P259 P241 P243 P243 P245	P233 P251 P231 P243 P243 P233 P233 P233 P237	P85 P87 P87 P85 P85 P85 P85
6 50 0 60 5 51 3 51 9 51 6 51 6 60 8 60 5 51	DIX48 Dissel HXA, HXB 15x61, HXC (51x61, HXD 151x61, HXE 16x17 segime-22C exh.) BX 18x8-21x31 BX 18x8-21x31 DFX, 10FXB, DHX, DHX8-5x61   DFXC-51x61 DFXD, DHXC 10FXH, DFXHF-51x61 DIX4D, DIX6 Dissel, DIX-83 (21, 101X6-272-3) DIXB, 10IXC-4x41, 10IXD-41x41, DIX, DIXH, DIXHF DIXH, DIXHF BXH, DIXHF BXH	Ows Own Own Own Own Own Own	4 6 4 6 4.6 2 6 6 8	3'-x4 4'-x6 2'-x3 4'-x6 5'-x6 3'-x4 3'-x4'- 3'-x4'- 5'-x6	* * * * * * * * * * * * * * * * * * * *	10 25 6 30 30 14 16 16 18 31	5 22 28 16 16 6R 6R 6R 9 20	L10 L25 L6 L30 L30 L14 L16 L16	L6 L22 L28 L16 L16 L6R L6R L6R L9 L20	16 116 116 16R 16R 16R 198	Z16 Z16 Z9	R103 R111 R101 R113 R113 R105 R106 R106 R107 R114	R101 R109 R736 R106 R101 R101 R101 R103 R108	30 30 45 45 45 45	30 30 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P243 P245 P259	P233 P251 P231 P243 P243 P233 P233 P237 P247	HIS HIS HIS HIS HIS HIS HIS
6.50 0.60 5.58 9.58 6.58 6.60 8.60 8.60 5.58	DIX48 Diesel HXA, HXE 15x6+, HXC 151x6+, HXD 151x6+, HXE 14x1y engine-22C exk.* BX 15x8-21x3+ DFX, DFXB, DHX, DHX8-5x6++ DFXC-51x6+ DFXD, DHXC 10FXH, DFXHF-51x6+ DIX4D, DIX6 Diesel, DIX-83-121, (DIX6-272-31 DIXB, DIXC-6x4++ DIXD-41x4++ DIXH, DIXHE DNX V88+DNX V8C 6x6- DNX V8D, DNX V8C 6x6- DNX V8D, DNX V8C 5NX-V8D, DNX-V8DTS	Ows Own Own Own Own Own Own Own Own	4 6 4 6 6 4.6 2 6	3'+x4 4'+x6 2'+x3 4'+x6 5'+x6 3'+x4 3'+x4'+ 3'+x4'+ 5'+x6 6'+x6	*****************	10 25 6 30 30 14 16 16 18 31	6 22 28 16 16 6R 6R 6R 9 20 25	L10 L25 L6 L30 L30 L14 L16 L16 L18	L22 L28 L16 L16 L6H L6H L6H L9 L20 L20	16   16   16   16   16   16   16   17   17   125	Z16 Z16	R103 R111 R101 R113 R113 R105 R106 R106 R107 R114 R117	R101 R109 R736 R106 R101 R101 R101 R103 R108 R111	30 30 45 45 45 45 45 45	30 30 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P243 P245 P259 P263	P233 P251 P231 P243 P243 P233 P233 P237 P247 P255	P85 P87 P87 P85 P85 P85 P85 P81 P81
6-50 0-60 5-58 3-58 9-58 6-58 6-60 8-60 5-58 9-60	DIX48 Diesel  RXA, HXB (5x6), HXC (515x6), HXD (515x6), HXE (sarty segme-22C exh.)  BX (BXB-21x3)  DFX, (DFXB, DHX, DHXB-5x6) (DFXC-514x6)  DFXD, DHXC (DFXB, DHXB-5x6) (DFXC-514x6)  DFXD, DHXC (DFXB, DFXHF-514x6)  DIX4D, DIX6 Diesel, DIX-83 (2), (DIX6-272-3)  DIX8, DIXC-4x4) (DIXD-41x4),  DIX (DIXE, DIXC-31x4),  DIXH, DIXHF  DNX VBB (DNX VBC 6x6)  DNX VBB, DNX-VBC, DNX-VBD, DNX-VBDTS  DOOB, DOOC-4x41, (DOOD-412x4))	Ows Own Own Own Own Own Own Own	4 6 4 6 6 4.6 2 6 6 8 8	3'-x4 4'-x6 2'-x3 4'-x6 5'-x6 3'-x4 3'-x4'- 3'-x4'- 5'-x6	* * * * * * * * * * * * * * * * * * * *	10 25 6 30 30 14 16 16 18 31	5 22 28 16 16 6R 6R 6R 9 20	L10 L25 L6 L30 L30 L14 L16 L16	L6 L22 L28 L16 L16 L6R L6R L6R L9 L20	16 116 116 16R 16R 16R 198	Z16 Z16 Z9	R103 R111 R101 R113 R113 R105 R106 R106 R107 R114	R101 R109 R736 R106 R101 R101 R101 R103 R108	30 30 45 45 45 45	30 30 45 45 45 45 45 45 45	P237 P251 P259 P259 P241 P243 P243 P245 P259 P263 P243	P233 P251 P231 P243 P243 P233 P233 P237 P247	HIS HIS HIS HIS HIS HIS HIS
6 50 0 60 5 58 3 58 9 58 6 58 6 60 8 60 5 58 9 60 6 60	DIX48 Diesel  HXA, HXE 15x61, HXC 151x61, HXD 151x61,  HXE 1sarty engine-22C eak.*  BX 18X8-21x31  DFX, DFXB, DHX, DHXB-5x61 1 DFXC-51x61  DFXD, DHXC 10FXH, DFXHF-51x62  DIX4D, DIX6 Diesel, DIX-83 121, (DIX6-272-31  DIXB, DIXC-6x411 1 DIXD-41x41)  DIXH, DIXHE  DIX DIXC-8x411 DIXD-41x41,  DIXH, DIXHE  DNX VBB 1 DNX VBC 6x6  DNX VBD, DIXX VBC 5x64  DOXC 4x415 1 DOOD 4 x411  DRXB DRXC-41x51 1 DORX-501-41x511  DRXB DRXC-41x51 1 DRX-501-41x511  DRXB DRXC-10WXD-45x41 1 DWXLDD, DWXLDEF,	Ows Own	4 6 4 6 4 6 2 6 6 8 8 4 6	3'x4 4'x6 2'x3 4'x6 5'x6 3'x4 3'x4'; 3'x4'; 5'x6 6'x6 6'x6 4'x5'x	* * * * * * * * * * * * * * * * * * *	10 25 6 30 30 14 16 16 18 31 34 16 22D	6 22 28 16 16 6R 6R 6R 9 20 25 5	L10 L25 L6 L30 L30 L14 L16 L16 L18	L6 L22 L28 L16 L16 L68 L68 L68 L9 L20 L25 L6	16  16  16  6R  6R  6R  9	Z16 Z16 Z9 Z25	R103 R111 R101 R113 R113 R105 R106 R106 R107 R114 R117 R106	R101 R109 R736 R106 R101 R101 R101 R103 R108 R111 R101	30 30 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P243 P245 P259 P263	P233 P251 P231 P243 P243 P233 P233 P237 P247 P255 P233	P85 P87 P87 P85 P85 P85 P85 P81 P81 P81 P81
6.50 0.60 5.58 3.58 9.58 6.58 6.60 8.60 5.58 9.60 6.60 6.60	DIX48 Dissel HXA, HXB 15x61, HXC (51x61), HXD (51x61), HXE 18x19 segine-22C exh.1 BX 18x8-21x31 DFX, 10FXB, DHX, DHX8-5x61   DFXC-51x61) DFX, DFXB, DHX, DFXHF-51x61 DIX40, DIXC 10FXH, DFXHF-51x61 DIXB, 10FXC-4x41   DIXD-41x411 DIXB, 10FXC-4x41   DIXD-41x411 DIXB, 10FXC-4x41   DIXD-41x411 DIXH, DIXHF DIXX, BIXB, 10FXC-31xx41   DIXH, 41x51 DIXH, DIXHF DIXX V8B   DIXX V8C 6x6. DIX V8B   DIXX V8C 6x6. DIX V8D, DIXX-V8D, DIXX-V8DTS DOGB, 10DC-4x411   DOGD-41x411 DRXB   DRXC-41x51   DRXS-501-41x511 DXXB   DRXC-41x51   DRXS-501-41x511 DXXD, DWXCD, 44x41   DWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, DWXLDF, D	Ows Ows Own	4 6 4 6 6 4.6 2 6 6 8 8 4 6	31:x4 42:x6 21:x3 42:x6 51:x6 31:x4 31:x4 31:x4 31:x4 31:x4 41:x5 41:x5 4x4 4x4 4x4 4x4 4x4 4x4 4x4 4	* * * * * * * * * * * * * * * * * * *	10 25 6 30 30 14 16 16 18 31 34 16 22D	6 22 28 16 16 6R 6R 6R 9 20 25 5	L10 L25 L6 L30 L14 L16 L16 L18 L16 L18	L6 L22 L28 L16 L16 L6R L6R L6R L9 L20 L25 L6 L10	16  16  16  6R  6R  6R  9	Z16 Z16 Z9 Z25	R103 R111 R101 R113 R113 R105 R106 R107 R114 R117 R106 R109	R101 R109 R736 R106 R101 R101 R101 R103 R108 R111 R101 R103	30 30 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P245 P259 P263 P243 P251 P245	P233 P251 P231 P243 P243 P233 P233 P237 P247 P255 P233 P239 P235	P85 P87 P87 P87 P85 P85 P85 P81 P81 P81 P86 P85
6-50 0-60 5-58 3-58 9-58 6-58 6-60 8-60 5-58 5-58 9-60 6-60 0-60	DIX48 Dissel HXA, HXB 15x61, HXC (51x61), HXD (51x61), HXA HXB 15x61, HXC (51x61), HXD (51x61), HXE 1x417 segme-22C exh.1 BX 15X8-21x31 DFX, OFX8, DHX, DHX8-5x61   DFXC-51x61 DFX, OFX8, DHXC OFXH, DFXHF-51x61 DIX4D, DIX6 Dixx83 (121, ODIX6-272-3) DIX8, DIXC-4x41, DIXD-41x41, DIXB, DIXC-4x41, DIXB, DIXD-41x41, DIXH, DIXHF DNX V8B DNX V8C 6x61 DNX V8D, DNX-V8D, DNX-V8DTS DOOB, DOOC-4x41, DIXC-40x41, DXXC (DWXD-41x42, ODWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, DWXLDF, DWXLD, WXLDF-41x51 IX, JXC, JXA, JXAS, JXAC-3x41.	Ows Ows Own Own Own Own Own Own Own Own Own	4 6 4 6 6 4 6 8 8 4 6	3'x44  4'x6 2'x83 4'x6 5'x66 3'x4 3'x4' 3'x4' 3'x4' 4'x5' 4'x5' 4x4' 2'x4	· · · · · · · · · · · · · · · · · · ·	10 25 6 30 30 14 16 16 18 31 34 16 22D	6 22 28 16 16 6R 6R 6R 9 20 25 5	L10 L25 L6 L30 L30 L14 L16 L16 L18 L16 L22D	L6 L22 L28 L16 L16 L6R L6R L6R L9 L20 L25 L6 L10 L8 L6D	116 116 116 16R 16R 16R 19 125 125	Z16 Z16 Z9 Z25 Z10	R103 R111 R101 R113 R113 R105 R106 R107 R114 R117 R106 R107 R107 R107	R101 R109 R736 R106 R101 R101 R101 R103 R108 R111 R101 R102 R102	30 30 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P245 P259 P263 P243 P251 P245 P237	P233 P251 P231 P243 P243 P233 P233 P237 P247 P255 P237 P255 P235 P235	165 167 165 165 165 165 165 165 165 165 165 165
6-50 0-60 5-58 3-58 9-58 6-58 6-60 8-60 5-58 9-60 6-60 0-60 1-68	DIX49 Diesel  RXA, HXE 15x61, HXC 151x61, HXD 151x61, HXE 14x19, engine-22C exis.  BX 15X8-21x31  DFX, DFXB, DHX, DHXB-5x61   DFXC-51x61, DFXD, DHXC 10FXH, DFXHF-51x62, DIX4D, DIX6 Diesel, DIX-83 121, (DIX6-272-31) DIXB, DIXC-6x411   DIXD-41x412, DIXH, DIXHE  DNX UBB   DIXC-31x412, DIXH, DIXHE  DNX VBB   DNX VBC 6x6. DNX VBD, DNX VBC 6x6. DNX VBD, DNX VBC DNX-VBD, DNX-VBDTS  DOBL   DDXC-41x512   DDXD-41x412, DXXB   DRXC-41x512   DDXC-61x41x512, DWXC DWXD-45x412   DWXLD, DWXLDF, DWXLD, DWXLDF-41x51  DWXC DWXLD-41x512   DWXLD, DWXLDF, DWXLD, UBX, IXA3, IXA5, IXAC-3x44   IXI3, IIXB, IXB3, IXB5, IXBC-34x44   IXLB-31x44   IXI3, IIXB, IXB3, IXB5, IXBC-34x44   IXLB-31x44   IXIX, IIXB, IXB3, IXB5, IXBC-34x44   IXIX, IIXB-34x44   IXIXB-34x44   IXIXB	Ows Ows Own Own Own Own Own Own Own Own Own	4 6 4 6 6 4.6 2 6 6 8 8 4 6	31:x4 42:x6 21:x3 42:x6 51:x6 31:x4 31:x4 31:x4 31:x4 31:x4 41:x5 41:x5 4x4 4x4 4x4 4x4 4x4 4x4 4x4 4	* * * * * * * * * * * * * * * * * * *	10 25 6 30 30 14 16 16 18 31 34 16 22D	6 22 28 16 16 6R 6R 6R 9 20 25 5	L10 L25 L6 L30 L14 L16 L16 L18 L16 L18	L6 L22 L28 L16 L16 L6R L6R L6R L9 L20 L25 L6 L10	116 116 116 16R 16R 16R 19 125 125	Z16 Z16 Z9 Z25 Z10	R103 R111 R101 R113 R113 R105 R106 R107 R114 R117 R106 R109	R101 R109 R736 R106 R101 R101 R101 R103 R108 R111 R101 R103	30 30 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P245 P259 P263 P243 P251 P245	P233 P251 P231 P243 P243 P233 P233 P237 P247 P255 P233 P239 P235	P85 P87 P87 P87 P85 P85 P85 P81 P81 P81 P86 P85
66-50 10-60 15-58 13-58 19-58 16-58 16-60 15-58 15-58 15-58 19-60 16-60 10-60 11-68	DIX4B Diesel HXA, HXB 15x61, HXC (515x61, HXD 1515x61, HXE 16x7y engine-22C exh.) BX 18X8-21x31 DFX, 10FXB, DHX, DHX8-5x61   DFXC-51x61 DFXD, DHXC 10FXH, DFXHF-51x61 DIX4D, DIX6 Diesel, DIX-83 (21, 101X6-272-3) DIX8, 10IXC-4x41   DIXD-41x41   DIX6-272-3) DIXB, 10IXC-4x41   DIXD-41x41   DIX. DIXB, DIXC-4x41   DIXD-41x41   DIX. DIXH, DIXHF DIXH, DIXHF DIX 10X8   DNX 10X 10X 10X 10X 10X 10X 10X 10X 10X 10	Owe Own	4 6 4 6 6 4 6 8 8 4 6 6 4 6 6 8 8 4 6	31:x4 42:x6 42:x6 42:x6 51:x6 31:x4 31:x4 31:x4 31:x4 31:x4 41:x5 41:x5 4x4 4x4 4x4 31:x4 3	· · · · · · · · · · · · · · · · · · ·	10 25 6 30 30 14 16 18 31 34 16 22D 17 8A	6 22 28 16 16 6R 6R 6R 9 20 25 5	L10 L25 L6 L30 L14 L16 L16 L18 L16 L22D L17 L8A L8A	L6  L22  L28  L16  L16  L6R  L6R  L9  L20  L20  L25  L6  L10  L8  L6D	16	Z16 Z16 Z9 Z25 Z10 Z8	R103 R111 R101 R113 R113 R105 R106 R106 R107 R114 R106 R109 R109	R101 R109 R736 R106 R101 R101 R101 R103 R108 R111 R103 R102 R102 R102	30 30 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P243 P245 P259 P263 P243 P251 P245 P251	P233 P251 P231 P243 P243 P233 P233 P237 P247 P255 P233 P235 P235 P235 P235	PIS
16-50 10-60 10-60 10-51 10-51 10-51 10-60 11-60 11-60 10-60 10-60 11-51 11-51	DIX48 Diesel HXA, HXB 15x61, HXC 151x61, HXD 151x61, HXA, HXB 15x61, HXC 151x61, HXD 151x61, HX 15x81, 21x31 DX 15X8, 21x31 DX, DFXB, DHX, DHXB, 5x61   DFXC, 51x61 DFX, DFXB, DHX, DFXHF, 51x61 DIX4, DIX6, Desel, DIX, 83 121, DIX6, 272-31 DIXB, DIXC, 4x41, DFXH, 41x41, DIXB, DIXC, 4x41, DIXD, 41x41, DIXB, DIXC, 4x41, DIXB, DIXC, 4x41, DIXB, DIXC, 4x41, DIX, DIXB, DIX, USC, DIX, USC, 0x41, DIX, DIXB, DIX, VBC, 6x61 DIX VBD, DIX, VBC, DIX, VBD, DIX, VBDTS DOOB, DOOC, 4x41, DIX, DOOK, 10x1, DIX, DIXB, DIXC, 10x1, 10x1, DIXB, DRXC, 41x51, DIXC, DIXX, DF, 41x51, DIXC, DIXX, DF, 41x51, DIXC, DIXX, DF, 41x51, DIX, DC, (1XA, 1XA), IXA5, IXAC, 3x41, IXB, JXB, JXB, JXBS, JXBC, 31x41, JXA, JXAM, JXB, JXBS, JXBC, 31x41, LEAST, LEAST, LEAST, LEAST, LEAST, LEAST, LEAST, LEAST, LEAST, LXB, JXB, JXB, JXBS, JXBC, 31x41, LXB, JXB, JXB, JXBB, JXBC, 31x41, LXB, JXBM, JXB, JXBM, 31x41, LEAST, LEAST, LEAST, LEAST, LEAST, LABA, JXB, JXBM, 31x41, LEAST, LEAST, LEAST, LEAST, LEAST, LEAST, LEAST, LEAST, LABA, JXB, JXBM, 31x41, LEAST, L	Own	4 6 4 6 6 4 6 8 8 4 6 6 4 6 6 8 8 4 6	3'x44  4'x6 2'x83 4'x6 5'x66 3'x4 3'x4' 3'x4' 3'x4' 4'x5' 4'x5' 4x4' 2'x4	· · · · · · · · · · · · · · · · · · ·	10 25 6 30 30 14 16 16 18 31 34 16 22D	6 22 28 16 16 6R 6R 6R 9 20 25 5	L10 L25 L6 L30 L30 L14 L16 L16 L18 L16 L22D L17 L8A L8A L13C	L6  L22  L28  L16  L16  L16  L6R  L9  L20  L20  L20  L20  L40  L10  L8  L6D  L10	16	Z16 Z16 Z9 Z25 Z10 Z8	R103 R111 R101 R113 R105 R106 R107 R104 R107 R106 R109 R109 R103 R103	R101 R109 R736 R106 R106 R101 R107 R103 R108 R111 R101 R103 R102 R102 R102 R102	30 30 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P243 P245 P259 P263 P243 P251 P245 P237 P237	P233 P251 P231 P243 P243 P233 P233 P233 P237 P247 P255 P233 P235 P235 P235 P235	165 167 165 165 165 165 165 165 165 165 165 165
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16-50 10-60 15-58 13-58 16-58 16-58 16-60 18-60 15-58 19-66 10-60 11-68 11-58 11-58 11-58 11-58 11-58 11-58 11-58	DIX48 Diesel HXA, HXB 15x61, HXC (51x61), HXD (51x61), HXE 1early engine-22C earl. BX 18X8-21x31 DX, 10X8-DHX, DHX8-5x61   DFXC-51x61 DFX, 10X8-DHX, DHX8-5x61   DFXC-51x61 DIX40, DIXC 10FXH, DFXHF-51x61 DIXB, 10IXC-4x41   DIXD-41x411 DIXB, 10IXC-4x41   DIXD-41x411 DIXB, 10IXC-4x41   DIXD-41x411 DIXH, DIXHF DIXH, DIXHF DIXH, DIXHF DIXH DIXHF DIXH DIXHF DIXH 10XHF DIXH 10XHF DIXH 10XHF DIXL 10XC-4x11   DIXD-41x411 DRXB - DRXC-41x51   DRX-501-41x511 DRXB - DRXC-41x51   DRX-501-41x511 DXXD (DWXDD-41x5) IX, 1XC, 14XA, 1XA3, 1XA5, 1XAC-3x41 IXA, 1XAB, 1XB, 1XB, 1XBC 31xx41   Learly engines-10A eak.] JXC, 1XCM, IXXC, 1X4C - JXE, 1X4E-31x411 JXC, JXDM, JXDT, JXDTR, JX4D (early eng 10A IXXB, 1XXB, IXCT, JXCT, IXXB, IXXB	Own	4 6 4 6 6 6 6 6 8 8 8 4 6 6 6 4 6 6 6 6	3'.x4 47.x6 2'.x3 47.x6 3'.x4 3'.x4' 3'.x4' 3'.x4' 4'.x5' 4x4' 4'.x5' 4x4' 3'.x4' 3'.x4' 3'.x4' 4'.x5'	\$P\$	10 25 6 30 30 14 16 16 18 31 34 16 72 D 17 8 8 A 13 C 13 C 13 C 13 C 13 C 13 C 13 C 13	6 22 28 16 16 6R 6R 9 20 25 5 10 8	L10  L25 L6 L30 L30 L14 L16 L16 L18  L16 L22D  L17 L8A L8A L13C L13C L13C L13C L13C L15C L16C L18C	L6  L22  L28  L16  L66  L67  L68  L9  L20  L25  L6  L10  L8  L6D  L10  L10  L10  L10  L10  L10  L10  L1	16	Z16 Z16 Z9 Z25 Z10 Z8	R103 R111 R101 R103 R103 R105 R106 R107 R107 R107 R107 R108 R109 R107 R104 R104 R104 R104 R104 R104 R106 R107	R101 R109 R736 R106 R106 R101 R101 R101 R103 R108 R111 R101 R102 R102 R102 R102 R103 R103 R103 R103 R103 R103 R105 R105 R105 R105 R105 R105 R105 R106 R106 R106 R107 R107 R107 R107 R107 R107 R107 R107	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P243 P243 P243 P245 P245 P259 P263 P243 P245 P237 P237 P239 P239 P239 P239	P233 P251 P231 P243 P243 P233 P233 P233 P237 P255 P235 P235 P235 P235 P237 P237 P237 P237 P237 P237 P237	P85 P87 P85
16 - 50 10 - 60 15 - 51 13 - 51 15 - 51 16 - 51 16 - 51 16 - 52 16 - 60 18 - 60 18 - 60 19 - 60 10 - 60 11 - 51 11 - 51 11 - 51 13 - 51 14 - 60 15 - 60 16 - 60 16 - 60 16 - 60 17 - 60 18 - 60 18 - 60 19 - 60 10	DIX48 Diesel HXA, HXB 15x61, HXC (51x61), HXD (51x61), HXA, HXB 15x61, HXC (51x61), HXD (51x61), HXE 1x417 segine-22C exh.* BX 18X8-21x31 DX, 10X8-21x31 DX, 10X8-21x31 DX, 10X8-21x31 DIX, 10X8-21x31 DIXB, 10XC-4x41, 10XB-41x41, DIXB, 10XC-4x41, 10XB-41x41, DIXB, 10XC-4x41, DIXB, 10XB-20XB-20XB-20XB-20XB-20XB-20XB-20XB-2	Own	4 6 4 6 6 4 6 6 4 6 4 6 6 4 6 6 4 6 6 6 4 6 6 6 6 6 6 6 6 6 6 6 6 7 8 7 8 8 7 8 7	3'.x4 4'.x6 2'.x3 4'.x6 5'.x6 3'.x4', 3'.x4', 3'.x4', 4'.x5', 4x4', 2'.x4', 3'.x4', 4'.x5', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 3'.x4', 4x4', 4x4', 3'.x4', 4	\$P\$	10 25 6 30 30 14 16 16 18 31 34 16 72 D 17 8 8 A 13 C 13 C 16 16 8 8 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	5 22 28 16 16 6R 6R 6R 9 20 25 5 10 8	L10  L25 L6 L30 L14 L16 L16 L18  L16 L22D L17 L8A L3A L13C L13C L13C L18C L19	L6  L22  L28  L16  L16  L6R  L6R  L20  L25  L6  L10  L10  L10  L10  L10  L10  L13T  L6	116	Z16 Z16 Z9 Z25 Z10 Z8 Z10 Z10 Z10 Z10 Z10 Z10 Z13T	R103 R111 R113 R113 R105 R106 R107 R106 R107 R108 R109 R109 R107 R103 R104 R104 R104 R104 R104 R104 R104 R104	R101 R109 R106 R106 R101 R101 R101 R101 R103 R108 R111 R102 R102 R102 R103 R103 R103 R103 R103 R103 R104 R105 R105 R105 R105 R107 R107 R107 R107 R107 R107 R107 R107	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 30 30	P237 P251 P259 P259 P241 P243 P245 P245 P245 P245 P243 P251 P247 P237 P239 P239 P239 P243 P235 P237	P233 P251 P243 P243 P243 P243 P233 P237 P247 P247 P255 P235 P235 P237 P247 P247 P247 P247 P243	P85 P87 P87 P85
16 - 50 10 - 60 15 - 51 13 - 51 13 - 51 15 - 51 16 - 51 16 - 51 16 - 50 17 - 50 18 - 60 18 - 60 19 - 60 10 - 60 11 - 51 11	DIX48 Diesel  HXA, HXB 15x6+, HXC 151x6+, HXD 151x6+,  HXA HXB 15x6+, HXC 151x6+, HXD 151x6+,  HXE 1xx19 segme-22C exh.*  BX 18X8-21x3+,  DFX, DFXB, DHX, DHXB-5x6++,  DFX, DFXB, DHXC DFXHF-51x6+,  DIX4D, DIX6 Diesel, DIX-83 121-, DIX6-272-3*,  DIX, DIX8-, DIXC-31x4++,  DIXB, DIXC-4x4++,  DIXB, DIXC-4x4++,  DIXB, DIXC-4x5+,  DIX DIXB DDX VBC 6x6-,  DNX VBD, DNX-VBC 5x6-,  DNX VBD, DNX-VBC 5x6-,  DNX VBD, DNX-VBC 5x6-,  DNX VBD, DNX-VBC 5x6-,  DNX-VBD, DNX-VBD, DNX-VBDTS  DNXB, DRX-41x5+,  DNXB, DNX-VBC 5x6-,  DNX-VBD, DNX-VBD 5x6-,	Own	4 6 6 6 7 6 6 8 8 4 6 6 6 4 6 6 6 4 6 6 6 6 6 6 6	3'x4'  47-x6 2'x3 47-x6 2'x6 31-x4' 3'x4' 3'x4' 3'x4' 4x4' 2'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4'	\$P\$	10 25 6 30 30 14 16 118 31 34 116 17 8A 13C 13C 13C 16C 8	6 22 28 16 16 6R 6R 6R 9 20 25 5 10 10 13T 6 6 6 8	L10  L25 L6 L30 L14 L16 L16 L18  L16 L22D  L17 L8A L3A L13C L13C L13C L15C L15C L15C L15C L15C L15C L15C L15	L6  L22  L28  L16  L66  L67  L69  L20  L25  L6  L10  L8  L6D  L10  L10  L10  L10  L10  L113  L6  L6  L6	16	Z16 Z16 Z9 Z25 Z10 Z8 Z10 Z10 Z10 Z10 Z13T	R103 R111 R101 R113 R103 R105 R106 R106 R107 R106 R107 R107 R107 R107 R107 R107 R108 R109 R109 R109 R109 R109 R109 R109 R109	R101 R109 R736 R106 R106 R101 R101 R101 R101 R103 R108 R101 R102 R102 R102 R103 R108 R105 R101 R101 R101 R103 R104 R104 R104 R105 R101 R101 R101 R101 R101 R101 R101	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 30 30 30 30	P237 P251 P233 P259 P259 P243 P243 P245 P263 P263 P263 P263 P237 P237 P239 P239 P239 P239 P239 P239	P233 P251 P243 P243 P243 P233 P237 P237 P247 P255 P237 P235 P235 P235 P235 P237 P237 P237 P237 P237 P237 P237	P85 P87 P87 P85
46 50 30 60 35 51 33 51 33 51 33 51 35 51 36 65 36 60 36 60 36 60 36 60 36 60 36 60 37 51 38 51 51 51 51 51 51 51 51 51 51 51 51 51 5	DIX4B Discel HXA, HXB 15x61, HXC (515x61, HXD 1515x61, HXA, HXB 15x61, HXC (515x61, HXD 1515x61, HXA 15x81, 215x61, BX 15X81, 215x61, BX 15X81, 215x61, DFX, DFXB, DFX, DFXB-5x661, DFXC, DFXB, DFXC-515x61, DFXC, DFXB, DFXC-4x61, DFXB, DFXC-4x62, DFXC 1000C-4x62, DFX	Ows Ows Own	4 6 4 6 6 4 6 6 4 6 4 6 6 4 6 6 4 6 6 6 4 6 6 6 6 6 6 6 6 6 6 6 6 7 8 7 8 8 7 8 7	3'x44  47x6 22x3 47x6 52x6 53x4 33x4 33x4 33x4 33x4 47x5 47x5 4x4 33x4 33x4 33x4 33x4 33x4 33x4 33x	\$P\$	10 25 6 30 30 14 16 16 18 31 31 16 17 22 17 38 4 13 13 14 16 17 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	6 22 28 16 16 6R 6R 9 20 25 5 10 8 8 10 10 10 11 13 T 6 6 6 8 8 8	L10  L25 L6 L30 L14 L16 L18  L16 L22D  L17 L8A L8A L13C L13C L13C L18C L11C L1C L1C L1C L1C L1C L1C L1C L1C L	L6  L22  L16  L16  L6R  L6R  L20  L25  L10  L8  L6D  L10  L10  L10  L10  L10  L10  L10  L1	116	Z16 Z16 Z9 Z25 Z10 Z8 Z10 Z10 Z10 Z10 Z10 Z10 Z13T	R103 R111 R101 R113 R103 R105 R106 R106 R107 R104 R107 R108 R109 R107 R103 R104 R104 R106 R102 R103 R104 R104 R106 R106 R107 R107 R108 R108 R109 R109 R109 R109 R109 R109 R109 R109	R101 R109 R736 R106 R106 R101 R101 R101 R101 R101 R10	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P237 P251 P253 P259 P259 P243 P243 P245 P259 P263 P263 P263 P237 P237 P237 P239 P243 P239 P243 P239 P243 P239 P243	P233 P251 P243 P243 P243 P243 P233 P237 P255 P237 P255 P235 P237 P257 P237 P237 P237 P237 P237 P237 P237 P23	PHS
46.50 30.60 35.51 33.51 39.51 39.51 46.51 46.60 31.60 31.60 31.60 31.50	DIX48 Diesel HXA, HXB 15x61, HXC (51x61), HXD (51x61), HXA, HXB 15x61, HXC (51x61), HXD (51x61), HXE 1x417 segine-22C exh.* BX 15X8-21x31 DFX, (DFXB, DHX, DHXB-5x61); DFXC-51x61 DFX, (DFXB, DHXC-0FXH, DFXHF-51x62) DIX4, DIX6, Dix64, DIX-83 (21, (DIX6-272-3)) DIXB, (DIXC-4x41); DIXD-41x41, DIXB, (DIXC-4x41); DIXD-41x41, DIXH, DIXHF DNX VBC DNX VBC 6x62 DNX VBC, DNX VBC, DNX-VBD, DNX-VBDTS DOOB, (DOOC-4x41); (DDOOD-4x41); DXXB (DXXC-41x51); (DWXLD, DWXLDF, DWXID, DWXIDF-41x51) DWXID, DWXIDF-41x51 IX, IXC, (IXA, IXA3, IXA5, IXAC-3x41) IXA, IXAM, IXB, IXBM 31x4141 (searly engines-1DA exh.; IXC, IXCM, IXCT, IX4C (IXE, IX4E-31x411) IXC, IXCM, IXCT, IXAC (IXE, IX4E-31x4111) IXC, IXCM, IXCT, IXAC (IXE, IX4E-31x4111) IXC, IXCM, IXCT, IXAC (IXE, IX4E-31x4111) IXC, IXCM, IXCT,	Own	4 6 6 6 6 6 7 6 6 8 8 8 4 4 6 6 6 4 4 6 6 6 6 6 6 6 6	3'x4'  47-x6 2'x3 47-x6 2'x6 31-x4' 3'x4' 3'x4' 3'x4' 4x4' 2'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4' 3'x4'	\$P\$	10 25 6 30 30 14 16 118 31 34 116 17 8A 13C 13C 13C 16C 8	6 22 28 16 16 6R 6R 6R 9 20 25 5 10 10 13T 6 6 6 8	L10  L25 L6 L30 L14 L16 L16 L18  L16 L22D  L17 L8A L3A L13C L13C L13C L15C L15C L15C L15C L15C L15C L15C L15	L6  L22  L28  L16  L16  L6R  L6R  L20  L25  L6  L10  L10  L10  L10  L10  L10  L10	16	Z16 Z16 Z9 Z25 Z10 Z8 Z10 Z10 Z10 Z10 Z13T	R103 R111 R101 R113 R113 R103 R106 R106 R107 R114 R117 R106 R107 R103 R104 R104 R104 R104 R104 R104 R105 R105 R106 R107 R107 R108 R108 R109 R109 R109 R109 R109 R109 R109 R109	R101 R109 R736 R106 R106 R101 R101 R101 R103 R108 R108 R102 R102 R102 R103 R103 R103 R104 R104 R105 R107 R107 R107 R107 R107 R107 R107 R107	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P259 P241 P243 P243 P243 P245 P237 P237 P239 P239 P239 P239 P239 P239 P239 P239	P233 P251 P243 P243 P243 P243 P233 P233 P237 P247 P255 P237 P247 P255 P237 P247 P257 P237 P247 P257 P247 P257 P247 P257 P247 P247 P257 P247 P247 P247 P247 P247 P247 P247 P24	PRO PROPERTY PROSPERS
46.50 30.60 35.58 39.58 39.58 46.58 36.60 38.60 38.60 39.60 39.60 30.60	DIX4B Discel HXA, HXB 15x61, HXC (515x61, HXD 1515x61, HXA, HXB 15x61, HXC (515x61, HXD 1515x61, HXA 15x81, 215x61, BX 15X81, 215x61, BX 15X81, 215x61, DFX, DFXB, DFX, DFXB-5x661, DFXC, DFXB, DFXC-515x61, DFXC, DFXB, DFXC-4x61, DFXB, DFXC-4x62, DFXC 1000C-4x62, DFX	Own	4 6 4 6 6 8 8 4 6 4 6 6 4 6 6 7 6 6 8 8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3'.x4 4'.x6 2'.x3 4'.x6 3'.x4 3'.x4' 3'.x4' 3'.x4' 4'.x5' 4.x4' 4.x4' 3'.x4' 4.x4' 3'.x4'	\$P\$	10 25 6 30 30 14 16 18 31 34 16 72 D 17 8A 8A 13C C 16C 8 9 12 13 18 19	6 22 2B 16 16 6R 6R 6R 9 20 25 5 10 10 10 10 10 13 T 6 6 B 8 118	L10  L25 L6 L30 L14 L16 L16 L18  L16 L22D  L17 L8A L3C L13C L18C  L19 L12 L11 L18 L13 L18	L6  L22  L16  L16  L6R  L6R  L20  L25  L10  L8  L6D  L10  L10  L10  L10  L10  L10  L10  L1	16	Z16 Z16 Z9 Z25 Z10 Z8 Z10 Z10 Z10 Z10 Z13T	R103 R111 R101 R113 R113 R103 R106 R106 R107 R114 R117 R106 R107 R103 R104 R104 R104 R104 R104 R104 R105 R105 R106 R107 R107 R108 R108 R109 R109 R109 R109 R109 R109 R109 R109	R101 R109 R736 R106 R106 R101 R101 R101 R101 R101 R10	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P237 P251 P253 P259 P259 P243 P243 P245 P259 P263 P263 P263 P237 P237 P237 P239 P243 P239 P243 P239 P243 P239 P243	P233 P251 P221 P243 P243 P243 P243 P233 P233 P237 P247 P255 P237 P247 P255 P237 P247 P255 P237 P247 P255 P237 P247 P247 P257 P247 P247 P257 P247 P247 P247 P247 P247 P247 P247 P24	PHS
446.50 335.58 333.58 346.58 346.58 346.60 346.60 345.58 346.60 345.58 346.60 34	DIX48 Diesel HXA, HXB 15x6+, HXC 151x6+, HXD 151x6+, HXA, HXB 15x6+, HXC 151x6+, HXD 151x6+, HXE 1xarry segme-22C exh.* BX 18X8-21x3+, DEX, DEXB, DHX, DHX8-5x6++++++++++++++++++++++++++++++++++++	Own	4 6 4 6 6 6 8 8 8 4 6 6 4 6 6 6 4 4 6 6 6 6	3'x44  47.x6 22.x3 47.x6 52'x6 33'x44 33'x44 33'x47 47.45'x  47.41 32'x44 33'x44'x 33'x4'x 33	\$P\$	10 25 6 30 30 14 16 18 31 34 16 72 D 17 8A 8A 13C C 16C 8 9 12 13 18 19	6 22 2B 16 6R 6R 6R 6P 20 25 5 10 10 10 110 13T 6 6 8 8 18 18	L10  L25 L6 L30 L14 L16 L16 L18  L16 L22D  L17 L8A L8A L13C L13C L13C L13C L15 L15 L15 L17 L16 L17 L17 L18 L19 L17 L18 L19	L6  L22  L28  L16  L66  L67  L69  L20  L25  L6  L10  L10  L10  L10  L10  L10  L10	16	Z16 Z16 Z9 Z25 Z10 Z8 Z10 Z10 Z10 Z10 Z13T	R103 R1111 R101 R113 R103 R105 R106 R106 R107 R107 R107 R107 R107 R107 R107 R107	R101 R109 R736 R106 R106 R101 R101 R101 R103 R103 R103 R103 R103	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P237 P251 P233 P259 P259 P241 P243 P245 P259 P263 P263 P243 P237 P237 P239 P239 P248 P248 P247 P247 P247 P247	P233 P251 P241 P243 P243 P233 P233 P237 P247 P255 P235 P235 P237 P241 P233 P237 P241 P233 P237 P241 P233 P237 P245 P245	P85 P87 P87 P87 P87 P87 P85

Replacement Ring for Factory Installed Insert.

Engines using Propane, Butane or Natural Gas must use Chromalloy or Lee-Lite Rings.

#### HERCULES ENGINES (Cont.)

									VALVE S				_				EAT (	
Year	Model	Make	Eng. Cyl.	165		Cast Int.		Lee-A int.	Ezh.	Chromatte Exh.	Leo-Lite Enh.	K-O (				Grind Int.		
34-61	ZXA (ZX8-2%x3)	Own	4	21/123	ж	6	28P	L6	LZBP			R 101	R736	30	30	P233	P231	P95
939 58	DFXE, DFXETS	Own	6	5% <b>#6</b>	*	30	16	L30	L16	16	Z16	R113	R106	45		1259	P243	767
756-60	GO-173, GO-260, DD173, DD260	Own	4	3' 1×4%		12	8A	L12E	LEA			R104	R 103	45		P239	P237	P\$5
956-63		Own	3	3%=4%		128	8.4	LIZE	LSA			R105	R103	45		P240	P237	PBS
	GO-169, DD-169, GO169H, DD169H	Own	3	4#415	×	120	8A	L128	LSA			R105	R 103	45	45	P240	P237	P85
756-63		Own	- 1	4x4¼	ж	120	84	L123	LEA			R105	R 103	45 45	45 45	P240 P240	P237 P237	P85 P85
	C2000, D2000	Own	4	34x44		128	AA.	L128	LSA LSA			R105 R105	R 103	-	45	P240	PZ37	
	GO-226, DD-226, GO-226A, GO-226AH, DD-226H G2300, D2300	Own	- ;	3%x4% 4x4%	- K	120 120	BA BA	L128 L128	L\$A			R105	R 103			P240	P237	
	GO-298, DD-298, D298, G-298H, DD298H, D298H	Own	6	3%44%		128	BA.	L128	LEA			R105	R 103	45	45	P240	P237	
	D3000, D3000T, G3000, G3400, D3400	Own	6	34:4%		128	8A	L128	LBA			R105	R103		45	P240	P237	P85
	GO 339, DD 339, DD 339H, G339, D339, G&D339H	Own	6	31414		120	BA	L128	LBA			R 105	R103	45	45	P240	P237	P85
60-62			6	4'4x5		178	84	L178	LSA			R 107	R103	45	45	P245	P237	P85
63-75	G1500, D1500 (G1700, D1700 4x4's)		3	3444		128	8A	L128	LSA			R 105	R103	45	45	P240	P 237	
70-75	D4800, D4800T		6	44,24				:2% × %s;					R 105		45		P240	
	G1400, G1600		4	4x3%				[15 x %; ]	Exhaust 15	z 1% z &		R105	R 104	45	45	P241	PZ38	P83
ngs are	available for C2-90-2 cylinder and CV4-180-4 cylind	er Lycomi	ing en	gines men	* man	ufactu	red by	Hercules.										
			Н	UDS	ON	ΑU	TON	iobili	ES									
38·52	14, 15, 17, 24, 25, 27, 44, 45, 47, 53, 54, 84, 85, 87																	
	95, 97, 173, 174, 483, 484, 503, 504, 8A, 8B	Own	8	314%		10			u	ja	Z8					P237		
	All Six Cylinder Models	Own		31.43%	_	170	10		L10	J10	Z10	R106	R103	45		P243	P237	P84
	JET 1C, 2C, 1D, 2D, 3D	Own	6	3x4%	*		7	L9	L7	J7		R 103	R102				P235 P237	P84 P84
	WASP	Own	6	3×4%		120	9		L9	19	Z9	R104	R103	45				
	HORNET 35580 (1956-4x3';)	Own		314.431		16A	12		L128	• • • • •		R107 R103	R105 R102	45 45	45 45		P241 P234	
55-5 <b>8</b> 57	HAMBLER Hornet 35780	Own	6	3'614%	-	10 1 <b>68</b>	8		L7E	18	ZI		R 102	30		P241		
• •	nother 33780		•	4x314	74	108	•	L14H	LB	10	41	×103	N 102		٠,	7271	1237	. • •
	INTE	RNAT	ION	AL '	TR/	CT	ORS	AND	POWE	R UNI	TS							
	T14, U14, U14A		4	4%x6%			18		LIS			R109				P251		P86
	A, AV, B, BN, UZ		4	3±4		7	5		L5			R102	RIOI	45			P233	P\$4
	16, 106, M. MV. O.6 OS6, T6, U6, W6		4	3'+x5%	*	-	128		L128			R106	R 105	45			P241	P85
	IDE, IUDE, MD, MDV, ODE, ODSE, TDE, UDE. WD		4	3'•×5'4		13	9	L13CE		19	Z9	1105	R103	45		P241	P237	785
	H, HV, I4, IU4, O4, O54, T4, U4, W4,		4	3',14',		9	8R	L9		JBR	Z#R	R103	I 102	45		P237	P235	M4
	19, 109, T9, U9, W9, W89, C335	N	4	4.4x55		20D	17	1370	L17	j17 11366		R108	R107	45	45 45	P247	₱245 ₱736	P97
	ID9, TD9, UD9, UD9A, WD9, WDR9 (UD16-6 cyl.)	Diesel	4	4 4x5 5 3x4		17C 7	3	L17C L7	L13CE L3	113CE		R106 R102	R104 R100	45 45	45 45	P243 P235	P239 P231	P97
	Super A. Super AV, C. UZA	D461	4				3 13T	L/ L19D			T1 1T			45		P245	P241	PR
	TD14, UD14A, TD14A, UD14, TD18, UD18 TD18A, UD18A	D691	4	43, x6';			131	L190	LI3T LI37	J13T	Z13T Z13T	R107	R105	45	45 45	P245	P241	116
	TD24, UD24, UD1091	U1091	6	514×7		27C	131		L20U	J13T	Z20U	RITI	R 105	45	45	P251	P247	P87
	SUPER M, SUPER MV, SUPER W6, C264, 400, C24		4	4×5'		15	128	L15	L128		2200	R106	E 105	45	45	P241	P241	
	SUPER MD, MDV, WD6, D264, 400D, TD6	D281	- 4	415	*	.,	9	LISCE		19	Z9	R104	R 103	45			P237	
	SUPER H, SUPER HV, SUPER W4	C164	4	31,x41;	74.	10	88	L10	LBR.	IRR .	ZIR	R103	R102	45	45	P237	P235	P84
	100, 200 'Eng. C1131 130, 130HC,									•	_•			-	-			
	140, 140HC, 230, 240	C123	4	3'.14	116	7	3	L7	L3			R 102	K 100	45	45	P235	P229	784
54 - 56	300, 300HC	C169	4	314444	11/4	10	8	L10	L8	18		R 103	R 102	45	45	P237	P235	784
<b>18</b> -75	FARMALL CUB	C60	4	2'•×2'	٧,	28H	1H					R736	R732	45	45	P229	P227	P83
4.58	FARMALL 350, 350 UTILITY	C175	4	3'.14'4		98	ar '		LBR	JBR	ZER	#103	R102	45	45	P237	P235	PB4
	FARMALL 350 DIESEL, UTILITY DIESEL	D193	4	37.14%		9		L9	L5CPH	J5CPH		R103	R 101	45	45	P236	P233	P84
4.58	FARMALL 450	C281	4	4'+x5'4			128	L14H	L128			R105	R105	45	45	P241	P240	P85
4-58	FARMALL 450 DIESEL	D281	4	4' x5'		139	9AR	L131	L9AR			R105	R104	45	45	P241	P238	P85
14 · 36	Starting Valve for Above Diesel	C350		At	¥,	20	2		LZ	:17			R734	40	45 45	8347	P227	P83
		. 450	4			20 17C	17	L20 L17C	L17"	J17		R108	R107 R105		45 45		P245 P240	P97
6-58	HARVESTER 650				744			L1/C	L13CE	JI3CE		R106	R105	45	45	F293		197
6-5#	HARVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9	D350	4	4',15',					13						73			80
6-58 6-58	HARVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above	D350			K.		3	130	13 17	17		1103		45		9727	P229	
6-58 6-58 58-75	HARVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valva for Above 330, 340, 340U, 404, T340 CRAWLER	D350 C135	4	3%±4%	K.	10	7	L10	L7	<b>j</b> 7		R103	R102		45	P237	P234	184
6-58 6-58 8-75 9-75	HARVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606	D350 C135 C221	4	3%x4% 3%x3%	% %		7 98	LII	L7 L98		79	E104	R102 R103	30	45 30	P238	P234 P236	P34
6-58 6-58 8-75 9-75	HARVÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2	D350 C135 C221 91. C263	4 6 6	3%x4% 3%x3% 3%x4%	* * *	10 11	7 98 9	L11 L13CE	L7 L9# L9	j7 9	Z9	R104 R104	R102 R103 R101	30 30	45 30 30	P238 P239	P234 P236 P232	P8: P8: P8:
6-58 6-58 8-75 9-75 9-75 9-62	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D	D350 C135 C221 91. C263 D236	4 6 6	3%±4% 3%±3% 3%±4% 3%±3%	% % % %	10	7 98	L11 L13CE L9A	L7 L98 L9 E3A		<b>Z</b> 9	R104 R104 R104	R102 R103 R101 R101	30 30 45	45 30 30 45	P238 P239 P238	P234 P236 P232 P232	P3/ P3/ P8/ P8/
6-58 6-58 8-75 9-75 9-75 9-62 9-62	HARVÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 STARTING VARVE FOR ABOVE 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 660D, TD6 CRAWLER 706	D350 C135 C221 91. C263	4 6 6	3½±4% 3%±3% 3%±4% 3%±3% 3%±4%	* * * * * * * * * * * * * * * * * * *	10 11	7 98 9 3A 6P	L11 L13CE L9A L12E	L7 L98 L9 L3A L6P		<b>Z</b> 9	R104 R104 R104 R104	R102 R103 R101 R101 R101	30 30 45 45	45 30 30 45 45	P238 P239 P238 P239	P234 P236 P232 P232 P233	P3: P8: P8: P8: P8:
6-58 6-58 8-75 9-75 9-62 9-62 9-62 3-75	HANVÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560HC, 560HD, 660D, TD6 CRAWLER 706 D236, D282 (3°%44%)	D350 C135 C221 91. C263 D236 D282	4 6 6 6	3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4%	1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 %	10 11	7 98 9 3A	L11 L13CE L9A	L7 L911 L9 L3A L67 L67	9	<b>Z</b> 9	R104 R104 R104 R104 R104	R102 R103 R101 R101 R101	30 30 45 45 45	45 30 30 45 45 45	P238 P239 P238 P239 P239	P234 P236 P232 P232 P233 P233	PS- PS: PS: PS: PS: PS:
6-58 6-58 8-75 9-75 9-62 9-62 9-62 3-75	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 660, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 6600, TD6 CRAWLER 706 D236, D282 (31%44%) 504, 504HC, 2504, 424 C1	D350 C135 C221 91. C263 D236	4 6 6 6 6	3½±4% 3%±3% 3%±4% 3%±3% 3%±4%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 11 9A	7 98 9 3A 6P 6P	L11 L13CE L9A L12E L13CE	L7 L98 L9 L3A L6P		<b>Z</b> 9	R104 R104 R104 R104	R102 R103 R101 R101 R101	30 45 45 45 45	45 30 30 45 45 45	P238 P239 P238 P239	P234 P236 P232 P232 P233 P233	PS- PS: PS: PS: PS: PS:
6-58 6-58 8-75 9-75 9-62 9-62 9-62 3-75 3-75	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 6660, TD6 CRAWLER 706 D236, D282 (3'Va4*4') 504, S04HC, 2504, 424 C1 504, S05HD	D350 C135 C221 91. C263 D236 D282 46, C153	4 6 6 6 6	3½±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 11 9A	7 98 9 3A 6P 6P 7	L11 L13CE L9A L12E L13CE L10	L7 L98 L9 L3A L6P L6P L7	9	<b>Z</b> 9	R104 R104 R104 R104 R104 R103	R102 R103 R101 R101 R101 R101 R102	30 45 45 45 45	45 30 30 45 45 45 45	P238 P239 P238 P239 P239 P237	P234 P236 P232 P232 P233 P233 P234	PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-P
6-58 6-58 8-75 9-75 9-62 9-62 9-62 9-62 9-63 175 13-75	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 660, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 6600, TD6 CRAWLER 706 D236, D282 (31%44%) 504, 504HC, 2504, 424 C1	D350 C135 C221 91. C263 D236 D282 46, C153 D188	4 6 6 6 6 6 4	3½±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4%	************	10 11 9A	7 98 9 3A 6P 6P 7	L11 L13CE L9A L12E L13CE L10 L9D	L7 L98 L9 33A L6P L6P L7 L4A	9	<b>Z</b> 9	R104 R104 R104 R104 R104 R103 R104	R102 R103 R101 R101 R101 R101 R102 R101	30 45 45 45 45 45 45	45 30 30 45 45 45 45 45	P238 P239 P238 P239 P239 P237 P239	P234 P236 P232 P232 P233 P233 P234 P233	PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-PS-P
6-58 6-58 8-75 9-75 9-62 9-62 9-62 9-62 9-62 9-62 9-62 9-62	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 650, 560HC, 660, T06, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 660D, TD6 CRAWLER 706 D236, D282 (3*Va4*V.) 504, 504HC, 2504, 424 C1 504D, 2504D TD340 CRAWLER	D350 C135 C221 91. C263 D236 D282 46, C153 D188 DT817	4 6 6 6 6 4 4	3½±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4% 5%±6	MINISTER STATE OF STA	10 11 9A	7 98 9 3A 6P 6P 7 4A	L11 L13CE L9A L12E L13CE L10 L9D L13E	L7 L9R L9 L3A L6P L6P L7 L4A L13E	9	<b>Z9</b>	R104 R104 R104 R104 R104 R103 R104	R102 R103 R101 R101 R101 R101 R102 R101 R105	30 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P239 P237 P239 P240	P234 P236 P232 P232 P233 P233 P234 P233 P240	PS/4 PS/5 PS/5 PS/5 PS/5 PS/6 PS/6 PS/6 PS/6 PS/6 PS/6 PS/6 PS/6
56-58 56-58 58-75 59-75 59-62 59-62 59-62 59-62 59-62 59-62 59-75 50-71 50-73	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 6600, TD6 CRAWLER 706 D236, D282 (3'\(\text{Cat}\)\(\text{W}\)\(\text{L}'\) 504, S0HC, 2504, 424 C1 504, S0HC, 2504, 424 C1 504, S0HC, 2504, 424 TD340 CRAWLER TD340 CRAWLER TD340 CRAWLER	D350 C135 C221 91. C263 D236 D282 H6, C153 D188 DT817 D166	4 6 6 6 6 4 4 6	3½±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4% 3%±4% 5%±6 3%±3%	***************	10 11 9A 10	7 98 9 3A 6P 6P 7 4A	L11 L13CE L9A L12E L13CE L10 L9D L13E L9D	L7 L9R L9 L3A L6P L6P L7 L4A L13E	9	Z9 Z12Ē	R104 R104 R104 R104 R104 R103 R106 R105	R102 R103 R101 R101 R101 R102 R102 R105 R101	30 45 45 45 45 45 45 45 45 45 45 45 45	45 30 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P239 P237 P239 P240 P239	P234 P236 P232 P232 P233 P233 P234 P233 P240 P233	PSA PSS PSS PSS PSS PSS PSS PSS PSS PSS
66-58 66-58 58-75 59-75 59-62 59-62 59-62 59-62 59-62 59-75 59-71 59-71 59-71	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 650, 560HC, 660, T06, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 660D, TD6 CRAWLER 706 D236, D282 (3*Va4*V.) 504, 504HC, 2504, 424 C1 504D, 2504D TD340 CRAWLER	D350 C135 C221 91. C263 D282 D282 46, C153 D188 DT817 D166 DT282	4 6 6 6 6 4 4 6	3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 5%x6 3%x3% 3%x4%	MANAGE CONTRACTOR	10 11 9A 10	7 98 9 3A 6P 6P 7 4A	L11 L13CE L9A L12E L13CE L10 L9D L13E L9D L9A	L7 L9R L9 L3A L6P L6P L7 L4A L13E L4A L3A	9		R104 R104 R104 R104 R104 R103 R106 R105 R104	R102 R103 R101 R101 R101 R101 R102 R101 R105 R101	30 30 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P237 P237 P240 P240 P239 P238	P234 P236 P232 P232 P233 P233 P234 P233 P240 P233 P232 P239	PSI PSI PSI PSI PSI PSI PSI PSI PSI
56-58 56-58 58-75 59-75 59-75 59-62 59-62 59-62 59-62 59-71 50-71 50-71 50-71	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560HC, 560HD, 660D, TD6 CRAWLER 706 D236, D282 (3 'Va4*4') 504, S04HC, 2504, 424 C1 504, S04HC, 2504 4300 (1964 Requires Ring 1'sk1*(xi*\Gamma') TD380 TD380 CRAWLER TD38	D350 C135 C221 91. C263 D282 46, C153 D188 DT817 D166 DT282 D554	4 6 6 6 6 4 4 6 6 6	3½x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 5%x6 3%x3% 3%x4% 4%x6%	MANAGEMENTARY	10 11 9A 10 9A 17D	7 9R 9 3A 6P 6P 7 4A 4A	L11 L13CE L9A L12E L13CE L10 L90 L13E L9D L9A L17D 19C	L7 L9R L9 L3A L6P L6P L7 L4A L13E L4A L13E L4A L12E	<b>19</b> 77	ζ12 <b>:</b>	R104 R104 R104 R104 R104 R103 R104 R105 R104 R106	R102 R103 R101 R101 R101 R102 R101 R105 R101 R104	30 30 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P237 P237 P240 P240 P239 P243 P243	P234 P236 P232 P232 P233 P234 P233 P240 P233 P232 P239	PSI PSI PSI PSI PSI PSI PSI PSI
56-58 56-58 58-75 59-75 59-75 59-62 59-62 59-62 59-62 59-71 50-71 50-71 50-71	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 6600, TD6 CRAWLER 706 D236, D282 (3 '\ad\fai\) D282 (3 '\ad\fai\) D30HC, 250H C30HC, 250H C30HC, 250H C30HC C30H	D350 C135 C221 91 C236 D282 M6, C153 D188 DT817 D166 DT282 D554 DT 691	4 6 6 6 6 4 4 6 4 6 6 6 6	3½x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 5%x6 3%x3% 3%x4% 4%x6%	MENTERSHIP AND THE STATE OF THE	10 11 9A 10 9A 17D	7 9R 9 3A 6P 6P 7 4A 4A	L11 L13CE L9A L12E L13CE L10 L9D L13E L9D L9A L17D 19C L13E	L7 L9R L9 L6P L6P L7 L4A L13E L4A L13E L4A L12E L14	7 71	ζ12 <b>:</b>	R104 R104 R104 R104 R103 R104 R105 R104 R106 R106	R102 R103 R101 R101 R101 R101 R102 R101 R105 R101 R104 R104	30 15 45 45 45 45 45 45 45	45 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P237 P237 P239 P240 P239 P243 P243 P245	P234 P236 P232 P232 P233 P233 P234 P233 P240 P233 P232 P239 P241 P240	PS- PS: PS: PS: PS: PS: PS: PS: PS:
56-58 56-58 58-75 59-75 59-75 59-62 59-62 59-62 59-62 59-62 59-75 59-71 50-71 50-71 50-71 50-71	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 6600, TD6 CRAWLER 706 D236, D282 (3 '\ad\fai\) D282 (3 '\ad\fai\) D30HC, 250H C30HC, 250H C30HC, 250H C30HC C30H	D350 C135 C221 91 C236 D282 46, C153 D188 DT817 D166 DT282 D554 DT 691 TD25TC	4 6 6 6 6 4 4 6 4 6 6 6 6	3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 4%x5% 4%x6% 5%x6 4%x6%	MANANAMANANAMANAMANAMANAMANAMANAMANAMAN	10 11 9A 10 9A 17D	7 9R 9 3A 6P 6P 7 4A 4A	L11 L13CE L9A L12E L13CE L10 L9D L13E L9D L9A L17D 19C L13E	L7 L9R L9 L3A L6P L7 L4A L13E L4A L13E L14A L12E L14	]7 ]7  J98TU27	Z12E Z14	R104 R104 R104 R104 R103 R104 R105 R104 R106 R107 R107	R102 R103 R101 R101 R101 R101 R102 R101 R105 R101 R104 R104	30 15 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P237 P237 P240 P239 P243 P243 P245 P245	P234 P236 P232 P232 P233 P233 P234 P233 P240 P233 P232 P239 P241 P240 P239	PS- PS: PB: PB: PS- PS- PS- PS- PS- PS- PS- PS- PS- PS-
66-58 66-58 58-75 59-75 59-75 59-62 59-62 53-75 53-71 50-71 50-71 50-71 50-71 50-71 50-71 50-71 50-71 50-71	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 560, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560HC, 560HD, 660D, TD6 CRAWLER 706 D236, D282 (3 'Wa4*4') 504, 504HC, 2504, 424 C1 504, 2504D 4300 (1964 Requires Ring 1'3x1'\(\alpha\) x'\(\alpha\)' TD340 CRAWLER TD38 TD98 TD15 TD20 TD25, TD25TC, TD30 806, 1206 DIESEL DT3	D350 C135 C221 91. C263 D282 46, C153 D188 DT317 D166 DT282 DT-591 TD25TC 61. D361	4 6 6 6 6 6 6 6 6 6	3½x4% 3%x4% 3%x4% 3%x4% 3%x3% 3%x4% 3%x4% 3%x4% 5%x6 3%x4% 5%x6 4%x5% 5%x6 4%x5%	MARKERSHINESHINESHINESHINESHINESHINESHINESHINE	10 11 9A 10 9A 17D	7 9R 9 3A 6P 6P 7 4A 4A	L11 L13CE L9A L12CE L13CE L10 L9D L13E L9D L17D 19C L13E	L7 L9R L9 E3A L6F L6P L7 L4A L13E L14A L12E L14 L13E ii. J17DTH	ј9 ј7  ј9811027 ј11НТОЗЗ	Z12E Z14	R104 R104 R104 R104 R104 R103 R104 R105 R104 R106 R107 R107	R102 R103 R101 R101 R101 R101 R102 R101 R105 R101 R104 R104	30 45 45 45 45 45 45 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P237 P237 P240 P243 P243 P243 P243 P243 P243 P243 P243	P234 P236 P232 P232 P233 P233 P234 P233 P240 P233 P241 P240 P239 P241 P240 P239	PS/PS/PS/PS/PS/PS/PS/PS/PS/PS/PS/PS/PS/P
56-58 56-58 55-55 559-75 559-75 559-62 59-62 63-75 60-71 60-71 60-71 60-71 60-71 60-71 60-71 60-71 60-71 60-71	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 460L, 7340 CRAWLER 460, 460HC, 460U, 460AU, 606 650, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 660D, TD6 CRAWLER 706 D236, D282, C3%44*4 504, 504HC, 2504, 424 C1 504, 504HC, 2504, 424 C1 504, 504HC, 860HD, 660D, TD6 CRAWLER 706 D340, C184HER TD98 TD98 TD98 TD95 TD20 TD25, TD25TC, TD30 806, 1206 DIESEL 429, 573 -8 cyl.) DIESEL, 4100, D407, D7407	D350 C135 C221 91. C263 D282 46, C153 D188 DT317 D166 DT282 DT-591 TD25TC 61. D361	4 6 6 6 6 6 6 6 6 6 6 6	3½44% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 5%x6 3%x4% 5%x6 4%x5% 4%x5% 4%x5% 4%x4% 4%x4%	KINSH SHEEKE SHE	10 11 9A 10 9A 17D	7 98 9 3A 6P 6P 7 4A 4A 3A	L11 L13CE L5A L12E L13CE L10 L9D L13E L9D L9A L17D L9C L13E In In In L12CE	L7 L9R L9 L6P L6P L7 L4A L13E L4A L3A L12E L14 L13E L13E L13E L13E L13E L13E	ј9 ј7  ј9811027 ј11НТОЗЗ	Z12E Z14	R104 R104 R104 R106 R106 R106 R105 R106 R106 R107 R105 R107	R102 R103 R101 R101 R101 R102 R103 R105 R101 R105 R105 R105	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P237 P237 P240 P240 P243 P245 P243 P243 P243 P243	P234 P236 P232 P232 P233 P233 P234 P233 P240 P233 P241 P240 P239 P241 P240 P239	P84 P85 P85 P85 P85 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86
56-58 56-58 56-58 59-75 59-62 59-62 59-62 59-62 59-62 59-62 59-62 50-71	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 60, 560HC, 660, TD6, 706, 806 C2 4660, 460DU, 4600HU, 460DHC, 606D 560B, 560HC, 560HD, 660D, TD6 CRAWLER 706 5236, D282 (3'%48*%) 504, 504HC, 2504, 424 C1 504, 504HC, 2504, 424 S04) C1964 Requires Ring 1'3x1'%x1'% TD340 CRAWLER TD98 TD98 TD98 TD98 TD98 TD98 TD95 TD25, TD25TC, TD30 806, 1206 DIESEL 429, 573 -8 cyl > DIESEL, 4100, D407, DT407 361 DIESEL, 407, DT407 DIESEL (4'1x4'5) D179, D310, D358 Engines	D350 C135 C221 91. C263 D282 46, C153 D188 DT317 D166 DT282 DT-591 TD25TC 61. D361	4 6 6 6 6 6 6 6	3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 4%x5% 4%x5% 4%x5% 4%x4% 4%x4% 4%x4% 4%x4% 4%x4%	**************************************	10 11 9A 10 9A 17D 19C	7 98 9 3A 6P 6P 7 4A 4A 3A	L11 L13CE L9A L12CE L13CE L10 L9D L13E L9D L17D 19C L13E	L7 L9R L9 L6P L6P L7 L4A L13E L4A L3A L12E L14 L13E L13E L13E L13E L13E L13E	9  7  98TU27  11HTU33  : Esb.  9A  99TU27	Z12E Z14	R104 R104 R104 R104 R104 R103 R104 R105 R104 R106 R107 R107	R102 R103 R101 R101 R101 R101 R102 R101 R105 R101 R104 R104	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P237 P237 P240 P240 P243 P245 P245 P243 P243 P243 P243 P243 P243 P241	P234 P236 P232 P233 P233 P234 P233 P240 P233 P239 P240 P239 P240 P239 P239 P239 P238 P237 P236	P84 P85 P85 P85 P85 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86
56-58 56-58 56-58 55-75 59-62 59-62 59-62 59-62 59-62 59-62 59-62 59-71 50-71 50-71 50-71 50-71 60-71 60-71 60-71 60-71 60-71 60-71 60-71 60-71 60-71 60-71	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 60, 560HC, 660, TD6, 706, 806 C2 4660, 460DU, 4600HU, 460DHC, 606D 560B, 560HC, 560HD, 660D, TD6 CRAWLER 706 5236, D282 (3'%48*%) 504, 504HC, 2504, 424 C1 504, 504HC, 2504, 424 S04) C1964 Requires Ring 1'3x1'%x1'% TD340 CRAWLER TD98 TD98 TD98 TD98 TD98 TD98 TD95 TD25, TD25TC, TD30 806, 1206 DIESEL 429, 573 -8 cyl > DIESEL, 4100, D407, DT407 361 DIESEL, 407, DT407 DIESEL (4'1x4'5) D179, D310, D358 Engines	D350 C135 C221 91 C263 D236 D282 46, C153 D188 DT817 D166 DT282 D554 DT 691 TD25TC 61 D361 DT429	4 6 6 6 6 6 6 6 6 6	3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 4%x5% 4%x5% 4%x4% 4%x5% 4%x5% 3%x4% 4%x5%	**************************************	10 11 9A 10 9A 17D 19C	7 98 9 3A 6P 6P 7 4A 4A 3A	L11 L13CE L5A L12E L13CE L10 L5D L13E L5D L13E L5D L5D L5A L17D L5C L13E L17D L5C L13E L14H L14H	L7 L98 L9 L3A L6P L6P L7 L4A L13E L4A L13E L14 L13E L14 L13E L17 L14 L13E L19	9  7  98TU27  11HTU33   Eal.  9A  99TU27  9	Z12E Z14 TH33 Z9	R104 R104 R104 R104 R104 R105 R106 R105 R106 R107 R107 R107 R107	R102 R103 R101 R101 R101 R102 R103 R105 R101 R105 R105 R105	30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P239 P237 P240 P239 P243 P245 P240 P243 P243 P243 P243 P243 P241 P241	P234 P236 P232 P233 P233 P233 P233 P240 P233 P241 P240 P239 P241 P240 P239 P237 P236 P237	P85 P85 P85 P84 P85 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86
6-58 6-58 18-75 19-75 19-62 19-62 19-62 19-62 19-75 19-71 19-7	HANKÉSTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 340U, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 605, 560HC, 660, TD6, 706, 806 C2 460D, 460DU, 460DHU, 460DHC, 606D 560D, 560DHC, 560HD, 660D, TD6 CRAWLER 706 D236, D282 (3'Va48'4) 504, 504HC, 2504, 424 504, 504HC, 2504 4300 (1964 Requires Ring 1'yx1'Y(x1'\u00e4) TD340 CRAWLER TD98 TD98 TD98 TD98 TD98 TD98 TD97 TD95, TD25TC, TD30 806, 1206 DIESEL 429, 573 -8 cyl-) DIESEL, 4100, D407, DT407 361 DIESEL, 407, DT407 DIESEL (4'1x4') D179, D310, D358 Engines 544 CAS and LPG 544 DIESEL 666, 766 Tractor (3'\u00e4\u00e5\u0	D350 C135 C221 91. C263 D236 D282 46, C153 D188 DT817 D166 DT282 D554 DT.691 TD25TC 61. D361 DT429	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 4%x5% 4%x5% 4%x5% 4%x6% 5%x6 4%x4% 4%x4% 4%x4% 4%x4% 4%x4% 4%x4% 4%x4% 4%x4%	**************************************	10 11 9A 10 9A 17D 19C	7 9R 9 3A 6P 6P 7 4A 4A 3A	L11 L13CE L9A L12E L10 L13E L9D L13E L9D L13E L9A L17D 19C L13E In In In L12CE L14H L14H L14H L14H L14H L14H L14H L14H	L7 L98 L9 L9 L3A L6P L7 L4A L13E L4A L13E L12E L14 L13E L13E L13E L13E L13E L13E L13E L13E		Z12E Z14 TH33 Z9 58	R104 R104 R104 R104 R104 R105 R104 R106 R107 R107 R107 R107 R107	R102 R103 R101 R101 R101 R101 R102 R101 R105 R101 R105 R104 R105 R105	30 45 45 45 45 45 45 45 45 45 45 45 45 45	45 30 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P239 P237 P240 P243 P245 P240 P243 P243 P243 P243 P241 P241 P241 P241	P234 P236 P232 P233 P233 P234 P233 P240 P233 P241 P240 P239 P239 P238 P238 P236 P238 P236 P236	P84 P85 P85 P85 P85 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86
6-58 6-58 18-75 19-75 19-62 19-62 19-62 19-62 19-75 19-71 19-7	HANVESTER 650 SUPER WD9, 600 DIESEL, 650 DIESEL, TD9 Starting Valve for Above 330, 340, 34001, 404, T340 CRAWLER 460, 460HC, 460U, 460AU, 606 650, 560HC, 660, TD6, 706, 806 650, 560HD, 460DHU, 460DHC, 600D D236, D282 (3'\(\arg{a}\)	D350 C135 C221 91. C263 D236 D282 46, C153 D188 DT817 D166 DT282 D554 DT.691 TD25TC 61. D361 DT429	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 3%x4% 4%x5% 4%x5% 4%x5% 4%x6% 5%x6 4%x4% 4%x4% 4%x4% 4%x4% 4%x4% 4%x4% 4%x4% 4%x4%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 11 9A 10 9A 17D 19C	7 98 9 3A 66P 7 4A 4A 3A 14	L11 L13CE L9A L12E L13CE L10 L9D L9A L17D L9A L17D L13E In In L12CE L14H L14H L14H L14H L14H L14N L174 L174 L174 L174 L174 L174 L174 L174	L7 L98 L9 L3A L6P L7 L4A L3A L3A L3E L12E L14 L13E L14 L13E L14 L13E L14 L15E L17 L17 L17 L18 L17 L18 L17 L18		Z12E Z14 TH33 Z9 58	R104 R104 R104 R104 R104 R105 R106 R105 R106 R107 R107 R107 R107	R102 R103 R101 R101 R101 R101 R102 R101 R103 R105 R105 R105	30 45 45 45 45 45 45 45 45 30 45 30 30	45 30 45 45 45 45 45 45 45 45 45 45 45 45 45	P238 P239 P238 P239 P239 P237 P240 P239 P243 P245 P240 P243 P243 P243 P243 P243 P241 P241	P234 P236 P232 P2332 P233 P233 P234 P233 P240 P239 P241 P241 P249 P239 P239 P239 P239 P236 P237 P236 P237 P236 P237 P236 P237 P237 P238 P237 P238 P237 P238 P238 P238 P238 P238 P238 P239 P239 P239 P239 P239 P239 P239 P239	P84 P85 P85 P85 P85 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86

\*Replacement Ring for Factory Installed Insert

INTERNATIONAL	TRUCK	FNCINES

	<u> </u>							VALVE						_		EAT (	CRIME
		Eng.		Pilot	Cas	t Iron	Lee -		Chromalles	Lee-Lite	K-0 (	Cutter	Seat	Angl			
Year	Model Make	Cyī	165	Size	int	Exh	let.	Esh	Exh.	Exh.	int	Exh.	int	Exh	lat.	Exh.	Pilot
17-49	GRD214, GRD214A, GRD233 and GRD233A (3%x4/s)	6	35at41	14	13	88	LI3	LBB			R105	R103	45		P241	P237	
	Red 318, Red 318A, Red 361 and Red 361A -4'+x4'-21		3'ex4 .		22#	IOAR		LIOAR	JIOAR:	ZIGAR	R109	R104			P251	P239	
	Red 401, Red 401A and B. Red 450 and Red 450A 41xX5		4 i x 5		22 <b>R</b>	IOAF		LIDAR	JTOAR	ZIOAR	R 109	R104		45	P251	P239	
	BLD250, BLD269 (3\m4")		3'.x4',		13C 22R	9	L13C	L9	J9	Z9	R104 R109	R103	_		P239 P251	P237	
	RD372, RD406 (41sx4's), RD450 (41sx5: ng can be used to convert RED 450 Cyl. Head to use RED.		4',x4',	•	22K	IOAR		LIDAR	JIOAR	ZIOAR	KIUS	KIUT	15	7)	F231	F237	7 80
	RD372 Eng. No. 24669 up. RD406 Eng. No. 42781 up.		••														
	RD450 Eng. No 36607 and up. RD501	6		K,	22R			L14H	J14H	Z14H	R109	R 105	15	45	P251	P241	P15
50-63	SD220, 8D220, SD240 +3*iix4 018+	6			12C	9	L12C	L9	19	Z9	R104	R 103			P238	P236	
	L170 to LC182 (1953-54R170 to R175) BD2					9	L13C	L9	19	Z9	R104	R103			P239	P237	
	L185, L190, L195 (1953 54-R185 to R195 RD3	2 6	4'ıx4'ı	٧.	22R	10A R		LIGAR	110AR	ZIOAR	R 109	R104	15	45	P251	P239	P86
50-54	L200, L202, L204, LF190 192 (1953-54-RF190 to RF195 R200 to R205) RD4	16 6	4'.×4'.		22R	10AR		LIDAR	1104 h	ZIOAR	R109	R104	- 15	45	8751	P239	PM
EA E4	RF195, R200 to R2051 RD4 L210, L211, LF210, LF212 (1953 54—R200 to R212 RD4					10AR		LIGAR	J10AR J10AR	ZIOAR	R109	R104		45			
	1220, L225 Cont R66				22R	188X		LIBBX	1.00.	Z188X	R109	R108			PZ51		-
	RF170-1, 2, 4, R180, 1, 2, 3, 4		3 1 ax 4"		14	9	L14	L9	19	Z9	R105	R103		45	P241		
	RF170-1, 2, 3, 4, R180 1, 2 3, 4 BD282, BD3	D <b>8</b> 6	3 ' a4'	. 4			L14H	L12E	JIZE	Z12E	R 105	R104	15	45	P243	P240	785
	BG241 BG265 BD240 BD2				168	9	L168	L9	J9	Z9	R105	R103		45	P241		
	V\$401, V461 -41ix45i2, V\$549 -41ix45i2, V\$478 -V537, V6	75 8	4' +x3'.		2108	!		L16J	116	Z 16)	R108	R106	-	-	_		
	V266		3'.23'.		17E			L8T45			R105	R102			P241		
	V304E, V345E 1374x376 4-152 11961-73 SCOUT	. V8 6		, ¹,	19E	AB	LTAH	L12CT45			R 106	R103			P243 P241	P238	
	D354 Diesel Perki 8G220	ns 6			12 <b>C</b>	9		LOD LO	19	Z9	R104	R103			P239		
	DV-462B	8				,		[18CR19					45			P239	
	DV-5508, D150, D170, D190	8						J21E14	117CR9				45				
	DYT-573							J17DTH	JIIHTU33		Spec	Spec	-	-	P243		
	Engine 4-196E V392E 488 Exh , P97RM, R213P10	8	4'.x3"	, 1	Int	125 x 2	en's, Enk	15 18	102 x 1		R 108		45	45	P245	P240	PE
9.73	6-232 Cas Engine	6		374	•	8	L16BE		18	Z8	₹105	R102			P241		
74.75	MV409 MV446	8		٠,			198	LIIT	pur		R108	R104			P245		
	DT466		4 30x5			98TH	J17H	LOBTH	198TH	Z98TH	R106	#103					
	V800 Rings Available for L9 and L10AR Rings	8	5°-24'	, ,		9BTH		L98TH	98TH	Z98TH	R 105	K 103	30	30	P243	P231	71
		J	OHN	DΕ	ERI	E TR	ACTO	RS									
	E Series, ER, BO	2	41,1151	,	13	10	L13	L10	Jio	Z10	R 105			45	_	P237	
	L, LA, LI, LUC power unit, 12A Combine		3'414	4	8	6	L8	L6	<b>j6</b>		R102	R101		30	P235	7233	
	H Series		3 - 25		13	9	LT3	L9	19	Z9	1105	R103		45			
	I Series		4",±5"		14	10	L) 6	L10	J10	Z10	R105 R108	R103			P241		
	A Series, AR, AO	ž	5' , 16'		20 21	16 18	L20 L21	L16 L18	116	Z16	R109	R106			P247 P251	P245	
	A Series, AR, AO D Series, W. WSP, Eng. 15-27	2			28	28	LZB	L28			R112	#112			P255	P255	
	G Series, GM		6.17	X,		25	L27	L25	j25	Z25	R112	R111		45	P 255	P255	
7.53		2				9	L13	L9	19	Z9	R105	R103		45	P247	P237	
	R Diesel	2	51:18	٠,	23	16	L23	L16	116	Z16	R110	R106	45	45	P251	P243	PE
	50 Series	2			15	11	L15	L11	jii		R106	R104	30	45	P243	P239	P
52-56	60, 70, Series Except 70 All Fuell		5 : x6'		21	180	L21	LIBU	JIBU	ZIBU	R109	R 107		45	P251	P245	_
	70 Series (All fuel)	2				25 <b>C</b>	L27C	L25C			R111	RIIG			P255	P251	
52 - 58	145, 217 Series (6 Cyl.)	4			130	7	LIBC	L7	17		R104	R 102			7239	P234	
	EA92 and HA92		3'.x3	¥,	5 10	3	L5 L10	L3	10	70	R 101	R100		-	P233		_
	40 Series	2	4x4	,	23	17D	L10 L23	L9 L17D	19	<b>Z</b> 9	R103	R103			P237	P237 P243	_
	70 Diesel		6'+x6'. 6'+x8		28	19	L28	L17D			R112	R106 R108			P255		
	80 Diesel 420, 430, 440 Series, (320, 330 4x4)		4'4x4	3		11	L15	LII			R106	R104			P243		
	520, 530 Gas, LP Gas, 520 All Fuel Intake Uses No. 14 Ri		4"45		138		LI38	LERHIO		ZSRHIO	R105	R 102		45	P24T		
	620, 630 Cas, LP Cas, 620, 630 All Fuel	• ;	5'1×6'		19C		L19C	L13T10	J13710	Z13T10	R108	R 105		45	P247	P241	
	720, 730 Gas, LP Gas, 720 All Fuel Intake Uses No. 24 R			4		17 <b>T8</b>	L22	L17T8	117T8	Z17T8	R109	R106	_	45	P251	P243	-
	720, 7300 Diesel	2				. 1 <b>7C</b>		L17C		Z17C	R111	R106		45	P255	P242	
57-60	820, 830, 840 Diesel	2		٠,			L28	L19C	19C		R112				P255		
<b>61</b> -71	1010 Gas 115, 217 Power Units	4		٧,		7	LIZE	L7	17		R104	R 102			F239		
	1010, 2010 Diesel 13'+x3'++ 165, 248 Power Units	4				7	LTZE	L7	J7		R104	R102					
	2010 Gas, 2010 LP, 145, 248 Power Units	4				7	LIZE	L7	J7		R104	R102	-	_			
	3010, 3020, 4010, 4020 Cas, LP (3010-20 4 Cyl.) [D500		4x4	- % - 1/		10	LIBCE		19R10	Z9R10	R105						
	3010, 4010 Diesel 13010 4 Cyll		4' ix4'	. %	22E	10 17 <b>C</b>	L14CE		J10	Z10 Z17C	R104	R103	* *>	45 30	P240 P231		
	\$010 Diesel, [D700, ]D760 (\$020   ]D700A  D760A	6	41.x5	**		1/0	LZZE	LITC LATHE		2170	R108			30		P231	
	8010 (GMC 6-71E, 4 Valve per cyl.)	3,4		*		11	L16BE	L4TH8			105	R104	4<				
	JD350, 450, 440, JD300 JD300, 350, 400, 450, 440	3,4				9	LIACE		19	Z9		RIO				P236	
	1020, 1520, 2020, 2510, 2520, 4030 Cas. 329 Power Unit		3 86x3			9R	LIACE		19R10	Z9R10		R103			_	P236	
	1020, 1520, 2020, 2510, 2520, 4030 Diesel, 329 Power Unit		3 86×4			, 12CE		LIZCE	112CE	ZIZCE		R 103					
	3020, 4020, 4000, [D500, jD600 Diesal, 4520		4'ax4'				L170	LISC							P243		
	JD644 Diesel Loader 'Early Models L17C Intake', JD690,	.,-			-								-	-			-
	4320, 4620, 7020 Diesel	6	;	1,	13	130	L13	LI3C							P240		
71.75	4230 Gas	6	4 07+4	123.	13	98 <b>8</b>	L13	L98R	<b>J98R</b>	Z9BR		R 103					
	4230 Diesel	6	4 07x4	133 .	17 <b>D</b>	13	L170		j13	Z13					P243		
	4430, 4630, 7020 (No. E335846 and above: 8430	•	First'	` <u>`</u>			L13CE	LIBCE	JIBCE		R 104				P239		
71-75	6030, 7520, 8630	6	47,x5	٠,					JIBCT			1,106	30	45	P245	P243	1
ting 2	BlazKatis Available Special Production							=-									
K.EF						l AU	TOMO	BILES	<b>)</b> 7		<b>X</b> 103	2107	100	45	P237	P23K	PE
·•· ))	10-10-1	-	3'44'			, 8B	L10	L8B	•						P237		
9D-54	· Henry } Co					6	L8	L6							P235		

<sup>&#</sup>x27;Replacement Ring for Factory Installed Insert

#### KAISER-JEEP - Includes Jeep and Willys

									VALVE	SEATS					_		SEAT C	
Year	Model	Make	Eng. Cyl	365		Cast Int.	Iron Exh.	Lee- Int.	Alloy Exh.	Chromalic Exh.	y Lee-Lite Exh.						d. Wh. Exh.	
930-50 37,	38, 39, 48, 77, 96A, 440, 441, 442, all Joep ca	n							-									
	trucks	Own		3'ix4's		10	9	L10	L9	<b>J9</b>	Z9		R103				7237	
	ster, Standard F Head Motor 6 cylinder models (1950-3'i=3'j)	Own Own		3'+x4", 3x3',		19 7	9 6	L19 L7	L9 L6	<b>16</b>	Z9	R108 R102	R103			P247 P235	P237 P233	P85 P84
	-SW, 675, 675A, 16L1	Own		3'.13'5	11/2		6	L8	L6	<b>16</b>		R102	R101				P233	P84S
	, 685A, LARK 1/4 exhaust, P\$45 exh.	Own		3'+x3';		14C	6		L6	16		R105	R101				P233	PBSS
	-SD (4F) 475, F4-134 (3'ix4's)	Own		3'.x4%		19C	9 <b>R</b>	L19C	L9R	J9R10	Z9R10	R107	R103	45			P237	P85
	L4-134, CJ-3A	Own		3'.z4'.	36		9R	L9BH	L9R	J9R10	Z9R10	R 103	R103	45		P237		PBS
754 64 226 867 71 167	L, L6-226 !, 164, 262, 264, 362, 364, 6-230	Own	6	3%x4% 3%x4%	"* "4	10	7 <b>R</b>	L10 L18E	L7R L12CE	JIZCE	Z12CE	R103 R106	R102 R104	30 45		P237 P243	P235 P238	P845
	5, CJ-5A, CJ-6, CJ-6A	F4134		3'.14'.	7	208	98	LIGE	LIZCE	JIZCE	21200	R107	R103	45			P237	P85
	eries Models 232 Engine		6	3'433'1	ı,		8	L16BE		j <b>s</b>	Z8	R105					P235	
	versal Series 225 Engine			<b>3". x3"</b> 5:		10	7	L10	L7	j7	<b>Z</b> 7						P234	
65-68 327				4x3'.	. '•			L16BE		j8	Z8		R 102					
68-71 V8 71-75 232				3.8x3.8; 3'4x3';			10 8	L18E L14E	LIU	J10 <b>J8</b>	Z 10 Z 8		R103 R102			P243 P241	P237 P235	P85 P85
971-75 304				31,137,			ě	LIBBE		j8	Z8		R102	30		P241		P85
971-75 360				4 08×34		19C			LIBCE	113CE			R104			P245		P85
				L	ERC	) E	NGII	NES										
	X, (W and Y-212x4)			2" (#3" ;		8	8	L8	L8	j8	Z8		R102				P235	
M7-52 B45 M3-54 D14	Α			2'+x3', 3'+x3'+		8 7	8 7	L8 L7	L8 L7	j8 j7	Z8	₹102 ₽103	R102 R102			P235 P235	P235 P235	P83
	(6 (D201-4 cyl. 4x4) (D226-4 cyl. 4x4'2)			31.14	1,		'	L13	L9R10	J9R10	Z9R10	R105	K 102					
	B, (382-4 cyl. 4):x6( (D471-4 cyl. 5x6)			4'1x5			17C		LITC	,,,,,	Z17C		R106					
	000, F1500, H2000, L3000	4,6		6'•17		ÀΙΕ	31A	L31A	L31A		Z31A		R115				P261	
948-58 H54				47:44	- 3		10A	L14	LIOA				R104					
M8-59 A28 X53-58 H84				7'417 5'447	,	33 25C		L25C	L32CZ L16CX			R116	R116 R106			P261 P251		
754-56 ATT				5'+×5'+	ž	2,0			LI9C	J19C		R107	R107			P245	P245	
954-58 L40				7:17:	*				L32CZ	,							P261	
953-58 H88				5'1×4'.	4		200					R110	R107	45	45	P251	P245	<b>P8</b> 6
	H844 and H884 require 2's x 2's x % or 2's x . n special production.	2'u x 5u for	Intak	e and H8	44 11	. × 2'.	x 3. fe	or Exhaust	Engines	used in irri	gation serv	ice requ	sire an	Exha	ust R	ling 17	. x 2.1	97 x
	, <b>,,,,,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			INGG			<b>-</b> 01											
942-48 All	Madel			25.x2%		10	10	IOBIL 110	L10	110	Z10	P103	R103	45	45	B220	P239	P91L
549-52 AII				3 ×4'.		14A	118	L14A	LIIR	]11 <b>R</b>	ZIIR		R104			P243		P84
953-55 All	Models - 1955-3"-4x3"-1			3.8x3.5	15		98TH		L98TH	198TH	Z9BTH	R107				P245		P84
	Models and Continental 368 Eng.			4x3",,		15A	12	L15A					R104	45				
	430 Engine			4"3%					L16BE			R108	R105	30		P247	P241	P85
	430 Engine after November, 1959 C-462, 460, Continental, Mark III, Mark IV			4".x3". 4".x3.8				LIYC	L13CE	J13CE		R107	R104 R104				P239 P239	
	eater Pilot is used for 1. Guide Size.		٠	¥ 143.0.		210			LISCE	) i see		R100		٠,	٠,	1247	1237	,,,
•	•			LYC	ОМ	ING	EN	GINES	3									
950-54 D29				4'ex3'e		17	14	L17	L14		Z14		R105				P241	
	BO ATI Models		9	4'ex4',		198	176		L178					45			P245	
	45, GO145 All Models 35 All Models, O-290-G1, G2, G4, +47sx37s+			3'.x3'. 4'.x3'.		8A 18U	<b>8A</b> 16U	LSA L18U	LSA L16U				R103 R106	30 30		P237	P237 P243	P\$4
	290. O-435, GS0580 All Models			4'.x3'.	13		100	L100	L 100			R 107	R106	30				
M1-75 VO-	435-AID		6	4'ex3'e	76							R109	R106			P247		
ings are avai	lable for Q-435 and other series including C2-						_		NC INI									
39-48 ENI	T (EN12-3%ax42e)	mA		3'a4'.		10	7	LÍO E	NGINI L7	J7		R103	R102	30	45	P237	P235	P84
938-50 EN2	53   EN271-31+x41+		6	3' 1 × 4' •		15	10AT	L15	LIGAT	JIOAT		R106	R104	30	45	P243	P239	P97
	90 (EN330-4x4°s)		6	31.841.		15	IOAT		LICAT	JIOAT			R104			P243		197
	154A (EN354 requires % pilot) 157, (EN471 and EN471A-4(m5%)			3'+15 4'+15'+	54 74	18 19		218R L19			Z 12X33	R107				P245 P247		P86
	157, "EN471 280 EN471A-4505"1" 1457, Diesel			4'.x5'.		14		L19			Z14X34 Z13BX34	R107		30 30		P241	P239	P86 P86
	105 (EN431 and EN431A-4'ax5'a)			4x51.	74			L19			Z14X34	R108		30				
	110. EN510A		6	4"445"2	Κ,	19		L19			Z14X34	R108		30	45	P247	P243	186
	108 and C. EN438, EN-540		6		K,			Z20U			Z11X30	R 108		30	45	P245	P239	P86
49.54 END 40.60 END	9510 Diesel 511 (EN672-476x6) (EN707 and EN707A-5x6)		6	4"ux5"s 4"sx5"i		18 23		L18 L23			Z110TH3 Z18X33			30	45	P245 P251	P241 P247	P86
	0672 Diesel		6	4'.x6		20		L23			Z18A33	R110 R108		30		P247	P245	P87
51-63 ENZ			6	3'. 84'.		18		Z18R			Z11X30	R107		30		P245	P239	P86
51-64 EN3			6	4x41e	-	18		ZIBR			Z11X30	R107			45	P245	P239	P86
51.64 EN3			6	4x5		18		Z18R			Z11X30	R 107				P245		P86
154-64 EN4	101 164, EN464A, EN464B		6	4'4x5'n 4'4x5	%. %.	18 18		Z1BR L20			Z12X33 Z11X30	R 107				P245	P239	P86
KA 44 EN4	ies: END673 (1963 END-711, END-864), END	-675	6	4'4x5	7			L23			Z17+16	R107 R110				P245 P251	P239 P245	
			6	5×6	ж			123			Z18X33	R110		30		P251		
753-75 <b>S</b> eri	S: EN7078, ENF7078, EN707C, ENF707C																	
953-75 Sari 955-69 Seri 960-69 Seri	es: EN7078, ENF7078, EN707C, ENF707C es: EN-438, EN-540		- 6	45x515		19		L19			Z14X34	R108				P247	P243	P86
953-75 Seri 955-69 Seri 960-69 Seri 964-69 ENI	es: EN7078, ENF7078, EN707C, ENF707C es: EN-438, EN-540 0465: Series		6	4545'i 585'i	%	int, 1	ზა x 2'	e x %; Ex	h. 1% х 1	13 <sub>10</sub> x 14		R107	R105	30	30	P245	P240	P86
953-75 Seri 955-69 Seri 960-69 Seri 964-69 ENI 967-75 ENI	es: EN7078, ENF7078, EN707C, ENF707C es: EN-438, EN-540		· 6	45x515		int, 1 23	ሜ x 2'			<sup>13</sup> 6 × <sup>1</sup> 6 1™5 × 2.180	Z17+16		R105	30 30	30 30	P245 P251		P86 P871

"Replacement Ring for Factory Installed Insert.

Engines using Propose, Butane or Natural Gas must use Chromalloy or Lee-Life Rings.

#### MASSEY-FERGUSON TRACTORS

Year			Eng.		pu.	t Casi		مد آ	VALVE Alloy		oy Lee-Lite	K-0	Cup	<b>.</b>	Anni		SEAT (	
	Model	Make	Cyl.	865	Size		Exh.	lat.	Esth.	Exh.	Exh.	lat.					Exh.	
941-42		. Cont. M290	6	3%x4%	*	16	HT	L16	LIIT	JIIT		R106	R104	30	45	P243	P239	<b>P9</b> 7
940-46	102 Senior	Cont. A244	6		×	12	BAT	L1Z	LEAT	<b>JBAT</b>	ZBAT	R104	R103	30		P239	P237	P85
942-50	201, 203, 203G	. Cent. M330	6	4x4%	*	16	117	L16	LIIT	JIIT			R104	30	-			
	22, 82, 101, 23 101, 102, 30		4	3%x4% 3%x4%	%	10 10	6P 6P	L10 L10	LGP LGP			R 103	R101 R101	30 30	45 45	P237 P237		P84 P84
947.54	101 Senier, 44-6	Cont. F152	6	3ka4k	7	10	6P	L10	L6P			R103	R101	30	45		P233 P233	
939.54	20, 81, 21	Coot. F124	4	3x4%	14	10	6P	L10	LGP			R103	R101	30	45	P237	P233	P84
949-54	44 Diesel	Own HD260	4	3%15%	ĸ.	10R	SBR	LIOR	LBBR			R103	R103	30	45	P237	P237	
946-54	44 Diesel 44, 44-0, 44V, 44K	Own H260	4	3%±5%	X,	13	98 R	L13	L9BR	98R	Z984	R105	R103			PZ41	<b>₽237</b>	P86
	55, 55K, 555C, 555K, 555LP		4	415m6	K,			116BE+		J13T	Z13T	R106	R 105	30		P243		P86
	55D Diesel, 555 Diesel	JD382	4	4'in6 3'414%		14C 13	11T 78	L14C L13	LIIT L7R	JIIT		R105	R104	45				P86
1953-54 1956-60	333G, 333K, 333LP, 333D (45° Int.), MF303		4	314.4%		9	7R	L9	L7R			R105 R103	R102 R102	30 30	45 45	P241 P237	₽235 ₽235	784 P84
	444C, 444K, 444LP		4	415',	Х,	12	98R	L12 -	L9R10	J9#10*	Z9R10		R103	30	45	P239	P237	P86
1956-60	444 Diesel, MF85 and 88 Diesel	HD277	4	4x5%		10	88 R	L10	LSBR			R 103	R103	45	45	P237	P237	P86
958-66	50 Series, Massey-Ferguson, MF35	Cont. Z134	4	3%x3%		6	4P	L6	L4P				R100	30	45	P241	P235	
956-68	MF65 Series, MF165C MF85, MF1001 Gas and LP	Cont. C176	•	376.24%			7.	L7E	LSCPH"	ISCPH			RIOI		45	P234		
000 CB	MPED, MPICUI Cas and LP	Cont. E223	- 1	3%±4% 3%±5%		9A 9A	7R 7R	L9A L9A	L7R L7R			R104	R 102 R 102		45	P238 P238	P234 P234	PB4 PB4
963.68	MF85 and 88 LPG, MF Super 90 MF175G, MF180G	Cont. C206	7	3"\4";			' K	19	L7R10				R102				P234	P84
Special	Production							-							-			
1949-51 1952-53	All Cars 100 hi P. All Cars 110 hi P. All Cars 125 hi P. All Cars 125 hi P. All Cars 1955-3\(\alpha\)3\(\alpha\)1\(\alpha\)1\(\alpha\)55-3\(\alpha\)3\(\alpha\)1\(\alpha\)1\(\alpha\)1\(\alpha\)56-3\(\alpha\)2\(\alpha\)3\(\alpha\)1\(		:	ERCL 3\u4 3\u4 3\u4 3.62x3 1 4x3% 3\u234 3\u234	14 14 14 14	10 10 10 11 13B 15A	10 10 10 11 98TH 12	HOBI L10 L10 L11 L138 L15A L18E L9	LES L10 L10 L11 L9BTH L12 L9ATH L5CH	J10 J10 J98TH J9ATH	Z10 Z10 Z98TH	R103 R103 R104 R105 R107 R106 R103	R103 R103 R104 R103 R104 R103 R101	45 45 45	45 45 45 45	PZ37 PZ39 PZ41	P237 P237 P239 P237 P239 P236 P232	
190U-04	170, 200 (31%x3½) 250 Engines	1007	2	3",x2"%		,	8	LIBCE		18	Z8		R101		45	P239	P235	P835
				35 x 374			10	LIGHE		110	Z10	R105	R103	45	45	P240	P237	P84
DEA EA	202 Engine mith Casts			3%x3%			98TH		L98TH	/98TH	Z9BTH	R104	R103	45	45	PZ39	P237	PB4
960-67	292, 312 Engines without Seats 352, 390 (4%x3 <sup>16</sup> ); 406, 410, 428 Engines 221, 260 (3 <sup>16</sup> xz <sup>2</sup> ); Engines		ì	3%x3%					LPATH	J9ATH	Z9ATH	R104	R103	45	45	P239	P237	
1961-71	352, 390 (4%x3%s), 406, 410, 428 Engines			4x3'5		208			L12CE	J12CE	Z12CE	R107	R104	45	45	P245	₽Z38	P84
962-64	221, 260 (3"Gx2'4) Engines		•	3',=2%			8	LIZCE		<b>JB</b>	Z8	R104	R 102		45	P238	P235	PB3
958-60	EDC 383 Engine, EDJ 430 Engine (4"6x3%)		•	4"%3"%					LIBCE	JIBCE		R108	R 105	45	45	P247		POSF
1900-04 1025 48	430 Engine after November 24, 1959			4%x3% 4x3%	X	19C	12CE		LIZCE	J13CE J12CE	Z12CE	R107 R105	R 104	45 45	45 45		P239 P238	P85F P84
				4%43%		21DE		C.00C	LIACE	11201	21201	R108	R105		45		P240	P85F
966-68	ECB-427 (1966-67 take L16E Exhaust) ECC-462 289, 302 (4x3) Exgines			41,13.83					LIBCE	113CE		R107	R104					
964-75	289, 302 (4x3) Engines			4x2%	740		9	L16E	L9	19	<b>Z</b> 9	R 105	R103	45	45	P240	₹236	P84
	351 CID ZV-Windsor			4±3',					LIO	110	Z10	R105	R103				₹237	
970-75	351 CID 2V-Cleveland 351 CID 4V-429 CID-4V, Cobra, Super Cobra			4x3'2	'%'s	21 DR			LISCE	113CE		R108	R104					
	351 CID 4V-429 CID-4V, Cobra, Super Cobra		•	4%±3°Y	# 'Xa	238 21DR	,		L14CE L13CE	HISCE		R109 R108	R104 R104					
1970-75	400 CID TV 430 400 CID 4V		:	727		LIDE				11306		×100	K I V	7,				
1970-75 1970-75 1970-75	400 CID-ZV, 429-460 CID 4V 429 CID AV (Bost)			4%3%				take 1250		HECT		#110	R106	45	45			
1970-75 1970-75 1970-75	400 CID-ZV, 429-460 CID 4V 429 CID 4V (Bost)			4%3%				take J250		JIECT		R110	R106	45	45		P243	
1970-75 1970-75 1211M1	400 C10-2V, 429-460 C1D 4V 429 C1D 4V (Bess) Reseater Pilot is used for 1% Coide Size. R21 MINNEAP(	DLIS-MO	LIN	 (E TI	RAC		RS /			JIECT STRIAL	. ENGI	NES	<b>,</b>			P251	P243	P8:
970-75 970-75 211M1	400 C10-2V, 429-460 C1D 4V 429 C1D 4V (Boss)	D <b>LIS-M</b> () ME, NE	LIN	 (E TI	RAC	<b>CTO</b> 35A	În				_ ENGI	NES	R119	45	45	P251		P85
931 -46 937 -56	400 CID-2Y, 429-600 CID-4Y 429 CID-4Y (Boss) Reseater Pilot is used for 1% Coide Size. R21  WINNEAP( MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Saries and Z Series CU, 425-64, (Std. Comp.) 10AT Exhaust Seat for	DLIS-MC ME, NE RE or Nat. and	LIN	IE TI	RAC		TR <b>S</b> /	AND	INĐU:	STRIAL	-	NES R119 R103	R119 R103	45 45	45 45	P263 P237	P243 P263 P237	P84 P84
1970-75 1970-75 1211M1 1931-46 1937-56 1940-56	400 CID-2V, 429-660 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size, R21  WHNNEAP  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Exhaust Shar fr CU, 425-6A, (Std. Comp.) 10AT Exhaust Shar fr CU, 425-6A, (Std. Comp.) 10AT Exhaust Shar fr	DLIS-MC ME, NE RE or Nat. and	)LIN	IE TI	RAC		RS /	AND	INĐU:	STRIAL		NES R119 R103	R119 R103	45 45	45 45	P263 P237	P243	P84 P84
970-75 970-75 211M1 931-46 937-56 940-56	400 CID-2V, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  WINNEAP  MEU, NEU, SE, SEU, TA, TAU, TE, TEU  R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Exhaust Seat for LP Ges, D425-6, CCU, CT, CTA, CTB, CTI, CU, LU, 1affer.	DLIS-MQ ME, NE RE or Nat. and 125-6 and CE	)LIN	8x9 3%x4% 4%x5	RAC % %	35A 13	Th RS / 35A 	AND LUE	INDU:	STRIAL	-	NES R119 R103 R105	RF19 R103	45 45 45	45 45 45	P263 P237 P241	P263 P237 P237	P851 P84 P84 P86
970-75 1970-75 1211M1 931-46 937-56 940-56	400 CID-2V, 429-660 CID-4V 429 CID-4V (Bees) Reseater Pilot is used for 1% Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Seri, Comp.) 10AT Enhaust Seat for LP Gas, D425-6, C, GEU, GT, CTA, GTB, GTI, GU, LU, (after Ser- 902209) 40	DLIS-MG  ME, NE RE PER Nat. and 125-6 and CE 13-4 GE & LE	0LIN 4,6 4 6	IE TI 8x9 3½x4½ 4½x5 4½x6	RAC % %	35A 13 16	RS / 35A	AND  L88E  L13  L16	INDUS	STRIAL	 Z10	NES R119 R103 R105	R119 R103 R103	45 45 45	45 45 45	P263 P237 P241 P243	P243 P263 P237 P237	P851 P84 P86 P86
970-75 1970-75 1211M1 931-46 937-56 940-56 948-56	400 CID-2V, 429-660 CID-4V 429 CID-4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  WENNEAPO MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Stel, Comp.) 10AT Enhaust Seat for CU, 425-6A, (Stel, Comp.) 10AT Enhaust Seat for CU, 625-6A, (St	DLIS-MG ME, NE RE or Nat. and 125-6 and CE 13-4 GE & LE 15-6, 1210-12	0LIN	## TI ##9 3%#4% 4%#5 4%#6 4%#6	RAC % %	35A 13 16 13	RS / 35A	AND  L886  L13  L16  L13	INDUS	STRIAL	-	R119 R103 R105 R106 R106	R119 R103 R103 R105 R104	45 45 45 45	45 45 45 45 45	P251 P263 P237 P241 P243 P241	P243 P263 P237 P237 P241 P239	P851 P84 P84 P86 P86 P86
1970-75 1970-75 12211M1 1931-46 1937-56 1940-56 1948-56 1948-56	400 CID-2V, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Exhaust Seat for LP Gas, D425-6, G. CEU, CT, CTA, CTB, CTI, CUI, U, (after Ser. 902209) HU, (Nat. and LP Gas) 403-4, HEB 6/HU, HUA; (Low and Reg. Comp.) 403-4, 605	DLIS-MG ME, NE RE or Nat. and 125-6 and CE 13-4 GE & LE 15-6, 1210-12	0LIN 4,6 4 6	829 35x45 45x5 45x6 45x6	RAC % %	35A 13 16	RS / 35A	AND  L88E  L13  L16	INDUS	STRIAL	 Z10	NES R119 R103 R105	R119 R103 R103 R105 R104	45 45 45 45	45 45 45 45 45	P263 P237 P241 P243	P243 P263 P237 P237	P851 P84 P84 P86 P86
1970-75 1970-75 12211M1 1931-46 1937-56 1940-56 1948-56 1948-56	400 CID-2Y, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Stel, Comp.) 10AT Enhaust Seat ft LP Gas, D425-6, C, GEU, GT, CTA, GTB, GTI, GU, LU, (after Ser. 902209) HU, (Nat. and LP Gas) HU, HUA, (Low and Reg. Comp.) 403-4, HEB 66 KEU, KTA, KU, MTA, U, UDLX, UT, UTI,	DLIS-MQ ME, NE ME, RE SOF NAT. and 125-6 and CE 13-4 GE & LE 05-6, 1210-12 -6, NE & HEB	0LIN	#E TI 8x9 3%x4% 4%x5 4%x6 4%x6 4%x6	RA()%	35A 13 16 13	RS / 35A	AND  L886  L13  L16  L13	INDUS	STRIAL	 Z10	R119 R103 R105 R106 R106 R106	R119 R103 R103 R105 R104	45 45 45 45	45 45 45 45 45 45 54	P263 P237 P241 P243 P241 P243	P243 P263 P237 P237 P241 P239	P851 P84 P84 P86 P86 P86
1970-75 1970-75 12111M1 1931-46 1937-56 1940-56 1940-56 1948-56 1948-56 1933-56	400 CID-2Y, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  WHNNEAPO MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std, Comp.) 10AT Exhaust Seat for CU, 425-	ME, NE ME, NE ME, NE ME, NE ME ARE ME AND ME ARE ME AND ME ARE ME AND ME	0LIN	8x9 3%x4% 4%x5 4%x6 4%x6 4%x6 4%x5	RAC W. W. W. W. W. W. W. W.	35A 13 16 13 16	10 138 10AT 138	L88E L13 L16 L13 L16 L13	INDUS LISSE' LIO LISSE LIOAT LISSE	STRIAL JIO JIOAT	Z10 Z10AT10	R119 R103 R105 R106 R106 R106	R119 R103 R103 R105 R104 R105	45 45 45 45 45 45 45	45 45 45 45 45 45 54	P263 P237 P241 P243 P241 P243	P243 P263 P237 P237 P241 P239 P241	P84 P84 P86 P86 P86 P86
1970-75 1970-75 1211M1 1931-46 1937-56 1940-56 1948-56 1948-56 1942-56 1948-56	400 CID-2Y, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Enhaust Seat for CU, 425-6A, (Std. Comp.) 10AT Enhaust Seat for CU, 625-6A, (Std. Comp.) 10AT Enhaust Seat for CU, 625-6A, (Std. Comp.) 10AT Enhaust Seat for CU, CT, CTA, CTB, CTI, GU, LU, (after BU, MUA, (Low and Reg. Comp.) 403-4, 605 HU, MUA, (Low and Reg. Comp.) 403-4, KEA, KI UTS, UTU 283-4A, KU, MTA, U, UDLX, UT, UTI, UTS, UTU 283-4A, KU, MTA, U, UDLX, UT, UTI, UTS, LP gas 283A 605A-6, 800-6A (Shuc6) 10A4216 Head	ME, NE ME, NE ME, NE ME, NE ME ARE ME AND ME ARE ME AND ME ARE ME AND ME	1,6 4 4 4 4,6	8x9 35x45 45x5 45x6 45x6 45x6 45x6	RAC W. W. W	35A 13 16 13 16	10 138 10AT 138 10AT 138	L88E L13 L16 L13 L16 L13 L13 L16C	LSBE' L10 L138E L10AT L138E L10 L10AT L138E	STRIAL  JIO  JIOAT  JIO  JIOAT	Z10 Z10AT10 Z104 Z10AT10	R119 R103 R105 R106 R105 R106 R105 R105 R105	R119 R103 R103 R105 R104 R105 R104 R104 R105	45 45 45 45 45 45 45 45 45	45 45 45 45 45 45 45 45 45 45	P251 P263 P237 P241 P243 P241 P243 P241 P243	P263 P237 P237 P237 P241 P239 P241 P237 P239 P241	P851 P84 P86 P86 P86 P86 P86 P86
970-75 1970-75 211M1 931-46 937-56 940-56 940-56 940-56 940-56 942-56 948-56 948-56 948-56	400 C16-2Y, 429-60 C1D 4V 429 C1D 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  WINNEAPO MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Enhaust Seat for CP, Get. GT, CTA, CTB, GTI, GU, LU, 1-After Ser. 902209) MU, (Nat. and LP Gas) HU, HUA, (Low and Reg. Comp.) 403-4, 605 KEU, KTA, KU, MTA, U, UDLX, UT, UTI, UTS, UTU 283-6A, KU, UT, UTG, UTI, UTS, LP gas. 283A 605A-6, 800-6A (SNo.56) 10A4216 Head 800-6A with 10A4210, 10A4216 Head	ME, NE RE ST NOT AND A ST NOT A ST NOT AND A ST NOT A ST N	6 4,6 4 4,6 4,6	8x9 35x45 45x5 45x6 45x6 45x6 45x6 45x5 45x5	RA(	35A 13 16 13 16 13 13 16C	RS 35A 10 138 10AT 138 10 10AT 138 10	L13 L16 L13 L16 L13 L16C L13E	LIBBE* L10 L138E* L10A* L138E L10 L10AT L138E L10 L10AT L138E	STRIAL  JIO  JIOAT  JIOAT  JIOAT  JIOAT	Z10 Z10AT10 Z10AT10 Z10AT10 Z10	R119 R103 R105 R106 R105 R106 R105 R106 R105 R106 R105	R119 R103 R103 R105 R104 R105 R104 R105 R104 R105 R103	45 45 45 45 45 45 45 45 45 45 45	45 45 45 45 45 45 45 45 45 45 45	P263 P237 P241 P243 P241 P243 P241 P243 P241 P243 P240	P243 P263 P237 P237 P241 P239 P241 P237 P239 P241 P237	P851 P84 P86 P86 P86 P86 P86 P86 P86
1970-75 1970-75 1211M1 1931-46 1937-56 1940-56 1948-56 1948-56 1942-56 1942-56 1957-68 1957-68	400 CID-2V, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for % Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Exhaust Seat ft LP Gas, D425-6A, (Std. Comp.) 10AT Exhaust Seat ft LP Gas, D425-6A, (Std. Comp.) 403-4, H26 GB, GC, GEU, GT, CTA, CTB, CTI, CUI, LU, Lafter Ser. 902209) 403-4, H26 GB, HU, HUA, LOW and Reg. Comp.) 403-4, H26 GB, HU, HUA, LOW and Reg. Comp.) 403-4, KEA, KI LUTS, UTU D283, 283-4, KEA, KI 283-4A, KU, UT, UTG, UTI, UTS, LP gas 283A 605A-6, 800-6A (SNuc6) 10A4216 Head 800-6A with 10A4210, 10A4217 Head 1210-12A, 1600-12A (SNuc6)	DLIS-MQ  ME, NE RE OF Nat. and 125-6 and CE 13-4 GE & LE 13-6, NE & HEB EC, KED, KEF 1-4, KEC, KEF	0LIN 4,6 4 4,6 4,6	8x9 3%x4% 4%x5 4%x6 4%x6 4%x6 4%x5 4%x5 4%x5 4%x6	<b>RA(</b> % % % % % % % % % % % % % % % % % % %	35A 13 16 13 16 13 13 16C	10 138 10AT 13B 10 10AT 13B 10 10AT 13B 10	L13 L16 L13 L16 L13 L16 L13 L13 L16 L13 L13 L16 L13E L13	LINDUS LIBBEY LIO LIBBEY LIO LIBBE LIO LIOAT LIBBE LIO LIOAT LIBBE LIO LIOY	STRIAL  JIO  JIOAT  JIO  JIOAT	Z10 Z10AT10 Z104 Z10AT10	R119 R103 R105 R106 R105 R106 R105 R106 R105 R105 R105	R119 R103 R103 R104 R105 R104 R105 R103 R104 R105 R103	45 45 45 45 45 45 45 45 45 45 45 45	45 45 45 45 45 45 45 45 45 45 45 45	P263 P237 P241 P243 P241 P243 P241 P241 P243 P240 P241	P263 P237 P237 P241 P239 P241 P237 P241 P237 P237 P237	P851 P84 P86 P86 P86 P86 P86 P86 P86 P86
1970-75 1970-75 1970-75 1211M1 1931-46 1937-56 1940-56 1948-56 1948-56 1948-56 1948-56 19578-58 1958-56 1958-56	400 CID-2Y, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Stel, Comp.) 10ATE Eshaust Seat for CU, 425-6A, (Stel, Comp.) 10ATE Eshaust Seat for CU, 425-6A, (Stel, Comp.) 10ATE Eshaust Seat for CU, 425-6A, CT, CTA, CTB, CTI, GU, LU, (after Ser. 902209) MU, (Nat. and LP Gas) 403-4, HEB 6f HU, HUA, (Low and Reg. Comp.) 403-4, 656 GSA-6, 800-6A (Sku6) 10A4216 Head 800-6A with 104A4210, 10A4217 Head 800-6A with 104A4210, 10A4217 Head 1210-12A, 1600-12A (Sku6) 445 Series, 335 (3844 165A) 2 Star Crawler	DLIS-MG  ME, NE RE OF NAF. and 125-6 and CE 18-4 GE & LE 195-6, 1210-12 -6, ME & HEB EC, KED, KEF 1-4, KEC, KEF	6 4,6 4 4,6 4,6	8x9 3%x4% 4%x5 4%x6 4%x6 4%x6 4%x5 4%x5 4%x5 4%x6 3%x5	RA( % % % % % % % % % % % % % % % % % % %	35A 13 16 13 16 13 13 16C	RS 35A 10 138 10AT 138 10 10AT 138 10	L38E L13 L16 L13 L16 L13 L16C L13E L13E L13E L13E	LIBBE' LIO LIBBE LIOAT LIBBE LIOAT LIBBE LIOAT LIBBE LIOAT LIBBE LIOCAT LIBBE LIOCAT LIBBE LIOCAT LIBBE LIOCAT LIBBE	STRIAL  JIO  JIOAT  JIOAT  JIOAT  JIOAT	Z10 Z10AT10 Z10AT10 Z10AT10 Z10	R105 R105 R106 R106 R105 R105 R105 R105 R105 R105 R105 R105	R119 R103 R103 R105 R104 R105 R104 R105 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45	45 45 45 45 45 45 45 45 45 45 45 45	P263 P263 P237 P241 P243 P241 P243 P241 P243 P244 P243 P241 P243	P263 P237 P237 P237 P241 P239 P241 P237 P241 P237 P237 P237	P851 P84 P86
931.46 931.46 937.56 940.56 940.56 948.56 940.56 948.56 957.68 948.56 957.68 958.56	400 C16-2V, 429-60 C1D 4V 429 C1D 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  WINNEAP  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Stel. Comp.) 10AT Exhaust Seat for LP Gas, D425-6, G CEU, CT, CTA, CTB, CTI, CUI, LU, (after Ser. 902209) MU, (Nat. and LP Gas) 403-4, HEB 66 HU, HUA, (Low and Reg. Comp.) 403-4, 605 KEU, KTA, KU, MTA, U, UDLX, UT, UTI, UTS, UTU D23, 283-4A, KU, MTA, U, UDLX, UT, UTI, UTS, UTU D23, 283-4A, KU, UT, UTG, UTI, UTS, LP gas 283-4 605-6A (500-6A (5Nu6) 10A4217 Head 1210-12A, 1600-12A (5Nu6) 445 Series, 385 (3Nu4) 165A) 2 Star Crawler 445 Series, 385 (3Nu4) 165A) 2 Star Crawler	DLIS-MG  ME, NE RE OF NAF. and 125-6 and CE 18-4 GE & LE 195-6, 1210-12 -6, ME & HEB EC, KED, KEF 1-4, KEC, KEF	1.5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8x9 35x415 45x5 45x6 45x6 45x6 45x6 45x5 45x5 45x	RAC WAS A KAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAK	35A 13 16 13 16 13 13 16C	10 138 10AT 138 10AT 138 10 10AT	L88E L13 L16 L13 L16 L13 L16 L13 L16 L13 L16 L13E L13E L18B L8B L8B	LIBBE' LIO LIBBE LIOAT LIBBE LIOAT LIBBE LIO LIOAT LIBBE LIO LIOAT LIBBE LIO LIOT LIOT LICT	110	Z10 Z10AT10 Z10AT10 Z10AT10 Z10	R105 R105 R105 R105 R105 R105 R105 R105	R119 R103 R103 R104 R105 R104 R105 R103 R104 R105 R103 R102 R102 R102	45 45 45 45 45 45 45 45 45 45 45 45	45 45 45 45 45 45 45 45 45 45 45 45	P251  P263 P237  P241  P243 P241 P243 P241 P243 P240 P241 P237 P237	P263 P237 P237 P239 P241 P237 P239 P241 P237 P237 P235 P235 P235	P851 P84 P86
970-75 970-75 970-75 970-75 991-46 9937-56 994-56 994-56 994-56 994-56 998-56 998-56 998-56 998-56	400 CID-2Y, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Stel, Comp.) 10ATE Eshaust Seat for CU, 425-6A, (Stel, Comp.) 10ATE Eshaust Seat for CU, 425-6A, (Stel, Comp.) 10ATE Eshaust Seat for CU, 425-6A, CT, CTA, CTB, CTI, GU, LU, (after Ser. 902209) MU, (Nat. and LP Gas) 403-4, HEB 6f HU, HUA, (Low and Reg. Comp.) 403-4, 656 GSA-6, 800-6A (Sku6) 10A4216 Head 800-6A with 104A4210, 10A4217 Head 800-6A with 104A4210, 10A4217 Head 1210-12A, 1600-12A (Sku6) 445 Series, 335 (3844 165A) 2 Star Crawler	ME, NE RE SIT NOT NOT NOT NOT NOT NOT NOT NOT NOT NO	1.5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8x9 3%x4% 4%x5 4%x6 4%x6 4%x6 4%x5 4%x5 4%x5 4%x6 3%x5	RA( % % % % % % % % % % % % % % % % % % %	35A 13 16 13 16 13 13 16C	10 138 10AT 13B 10 10AT 13B 10 10AT 13B 10	L88E L13 L16 L13 L16 L13 L16C L13E L13 L88 L88 L13E	LIBBE' LIO LIBBE LIOAT LIBBE LIOAT LIBBE LIOAT LIBBE LIOAT LIBBE LIOCAT LIBBE LIOCAT LIBBE LIOCAT LIBBE LIOCAT LIBBE	STRIAL  JIO  JIOAT  JIOAT  JIOAT  JIOAT	Z10 Z10AT10 Z10AT10 Z10AT10 Z10	R119 R103 R105 R106 R105 R106 R105 R106 R105 R103 R103 R103 R103 R103	R119 R103 R103 R105 R104 R105 R104 R105 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P251 P263 P237 P241 P243 P241 P243 P241 P243 P240 P241 P237 P247	P263 P237 P237 P237 P241 P237 P241 P237 P241 P237 P241 P237 P235 P235 P235 P235	P851 P84 P84 P86 P86 P86 P86 P86 P86 P86 P86 P86
970-75 2211M1 931-46 937-56 940-56 946-56 948-56 956-75 956-63 956-75 957-60	400 CID-2V, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Exhaust Seat ft LP Gas, D425-6A, (Std. Comp.) 10AT Exhaust Seat ft LP Gas, D425-6A, (Std. Comp.) 403-4, (Los ter Ser. 902209) HU, (Nat. and LP Gas) 403-4, (HE MU, HUA, (Low and Reg. Comp.) 403-4, 465 KEU, KTA, KU, MTA, U, UDLX, UT, UTI, UTS, UTU D283, 283-4, KEA, KI 283-4A, KU, UT, UTC, UTI, UTS, LP pas 283A 605A-6, 800-6A (SNuc6) 10A4216 Head 800-6A with 10A4210, 10A4217 Head 1210-12A, 1600-12A (SNuc6) 445 Series, 335 (3%x4 165A) 2 Star Crawler 445 Diesel 5 Star, Power Unit 168-2A	DLIS-MQ  ME, NE RE OF NAt. and A25-6 and CE B3-4 GE & LE D5-6, 1210-12 -6, ME & HEB EC, KED, KEF 1-4, KEC, KEF  206H D206-4 283E	1,5 4 6 4 1,6 1,6 6 6 6 6 6 6 1	8x9 3%x4% 4%x5 4%x6 4%x6 4%x5 4%x5 4%x5 4%x6 3%x5 3%x5 3%x5	RAC WAS A MAKA MAKAMAMA	35A 13 16 13 16 13 13 16C	10 138 100 138 100 101 101 101 101 101	L88E L13 L16 L13 L16 L13 L16C L13E L13 L88 L88 L13E	LINDUS LIBBEY L10 L138E L10AT L138E L10 L10AT L138E L10 L10C L10C L7CC L7CC L7CC L10+2		Z10AT10 Z10AT10 Z10AT10 Z10AT10 Z10 Z10+2 Z10+2	R119 R105 R105 R106 R105 R106 R105 R105 R105 R105 R105 R105 R105 R105	R119 R103 R103 R103 R104 R105 R104 R105 R103 R103 R103 R103 R102 R102 R102	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P263 P263 P237 P241 P243 P241 P243 P240 P241 P243 P240 P247 P237 P237 P237 P239	P263 P237 P237 P237 P239 P241 P237 P237 P235 P235 P235 P237 P237 P237 P237	P84 P84 P86 P86 P86 P86 P86 P86 P86 P84 P84 P84 P84 P84 P84
970-75 211M1 931-46 937-56 936-56 936-56 948-56 948-56 948-56 948-56 957-60 957-60 957-75 957-75	400 CID-2V, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for % Goide Size. R21  MINNEAP  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Exhaust Seat ft LP Gas, D425-6A, CFU, GT, CTA, GTB, CTI, GU, LU, Lafter Ser. 902209) 403-4, HEB HU, HUA, (LOW and Reg. Comp.) 403-4, HEB HU, HUA, (LOW and Reg. Comp.) 403-4, KEA, KI 283-4A, KU, UT, UTC, UTI, UTS, LPSS 283A 605A-6, 800-6A (SNuc6) 10A4216 Head 800-6A with 10A4210, 10A4217 Head 1210-12A, 1600-12A (SNuc6) 445 Series, 335 (3Nuc4 165A) 2 Star Crawler 45 Star Power Unit 168-2A 5 Star Diesel, MS, M602, M604, M670 Jet Star, 4-Star, 4-Star Super, HD220, 220A C VI	DLIS-MQ  ME, NE RE OF NAt. and N25-6 and CE  33-4 GE & LE 05-6, NE & HEB EC, KED, KEF 1-4, KEC, KEF  206H 2064 283E D336-4 205L 4258-6	1,5 4 6 4 4 4 6 6 6 6 4 4 4 4 6 6 6 6 4 4 4 4 6 6 6 6 6 4 4 4 4 6	8x9 35x45 45x6 45x6 45x6 45x6 45x5 45x5 45x5	RAC US IL LALLE LALLE LE	35A 13 16 13 16 13 13 16C	RS / 35A 10 138 10AT 13B 10 10AT 13B 10 10 10 10 10 10 10 10 10	L38 E L13 E	LIBBE' L10 L138E L10 L138E L10 L10AT L138E L10 L10AT L138E L10 L10C L10C L10C L10C L10C L10C L10C		Z104 Z104T10 Z104T10 Z104T10 Z107 Z1042 Z1042 Z1042	R119 R103 R105 R106 R105 R106 R105 R106 R105 R107 R103 R103 R103 R103 R103 R103 R103 R103	R119 R103 R103 R104 R105 R104 R105 R103 R103 R102 R102 R103 R102 R103 R102 R103 R103 R104 R105 R105 R106 R107 R107 R107 R108 R108 R108 R108 R108 R108 R108 R108	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P263 P263 P237 P241 P243 P241 P243 P240 P237 P237 P237 P237 P237 P237 P237 P237	P263 P237 P237 P237 P241 P239 P241 P237 P237 P237 P237 P237 P237 P237 P237	P84 P84 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86
931.46 931.46 937.56 936.56 936.56 936.56 948.56 997.68 997.68 997.69 997.61 997.61 997.61	400 CID-2V, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for 1% Goide Size. R21  WHNNEAPO  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Stel, Comp.) 10AT Enhaust Seat for CU, 425-6A, (Stel, Comp.) 10AT Enhaust Seat for Goide Size. CU, 425-6A, (Stel, Comp.) 10AT, CID, LU, (after Ser. 902209)	DLIS-MG  ME, NE RE OF NAr. and 125-6 and CE 13-4 GE & LE 13-6, NE & HEB EC, KED, KEF 1-4, KEC, KEF 206H 206-4 283-6 233-6 205-6 4258-6 A-6, D425A-6	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	8x9 35x45 45x6 45x6 45x6 45x6 45x6 45x6 45x6	RACUS & XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	35A 13 16 13 16 13 13 16C 13 8B 8	10 138 100 138 100 1138 10 100 10 10 10 10	L13 L16 L13 L16 L13 L16 L13 L16 L13 L16 L13 L18 L18 L13 CE	LIBBE' L10 L138E L10 L10AT L138E L10 L10AT L138E L10 L10T L17C' L10+2 L10+2 L10+2 L10+2 L10+2	J100 J10AT J10AT J10AT J10AT J10+2* J10+2* J10+2* J10+2*	Z10 Z10AT10 Z10AT10 Z10AT10 Z10 Z10+2 Z10+2 Z10+2 Z10+2	R119 R103 R105 R106 R105 R106 R105 R106 R105 R106 R107 R103 R103 R103 R104 R103 R105 R106 R106 R106 R106 R106 R106 R106 R106	R119 R103 R103 R104 R105 R104 R105 R103 R103 R103 R103 R103 R103 R103 R103	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P263 P263 P237 P241 P243 P241 P243 P240 P241 P247 P237 P237 P237 P239 P237 P239 P237 P239	P263 P237 P237 P237 P239 P241 P237 P237 P237 P237 P237 P237 P237 P237	P84 P84 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86
970-75 970-75 931-46 937-56 936-56 936-56 948-56 948-56 948-56 948-56 948-56 995-61 1959-75 1959-75 1959-75	400 CID-2V, 429-60 CID 4V 429 CID 4V (Boss) Reseater Pilot is used for % Goide Size. R21  MINNEAP  MEU, NEU, SE, SEU, TA, TAU, TE, TEU R Series and Z Series CU, 425-6A, (Std. Comp.) 10AT Exhaust Seat ft LP Gas, D425-6A, CFU, GT, CTA, GTB, CTI, GU, LU, Lafter Ser. 902209) 403-4, HEB HU, HUA, (LOW and Reg. Comp.) 403-4, HEB HU, HUA, (LOW and Reg. Comp.) 403-4, KEA, KI 283-4A, KU, UT, UTC, UTI, UTS, LPSS 283A 605A-6, 800-6A (SNuc6) 10A4216 Head 800-6A with 10A4210, 10A4217 Head 1210-12A, 1600-12A (SNuc6) 445 Series, 335 (3Nuc4 165A) 2 Star Crawler 45 Star Power Unit 168-2A 5 Star Diesel, MS, M602, M604, M670 Jet Star, 4-Star, 4-Star Super, HD220, 220A C VI	DLIS-MG  ME, NE RE OF NAr. and 125-6 and CE 13-4 GE & LE 13-6, NE & HEB EC, KED, KEF 1-4, KEC, KEF 206H 206-4 283-6 233-6 205-6 4258-6 A-6, D425A-6	1.6 4 4 4 4 4 4 4 6 6 6 6 6	8x9 35x45 45x6 45x6 45x6 45x6 45x5 45x5 45x5	RACUS & XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	35A 13 16 13 16 13 13 16C	10 138 10 10AT 138 10 10AT 138 10 10 10 10 10 11 11 R	L38 E L13 E	LIBEY LIO LIBEY LIO LIOAT LIBE LIO LIOAT LIO LIOC LIOC LIOC LIOC LIOC LIOC LIOC		Z104 Z104T10 Z104T10 Z104T10 Z107 Z1042 Z1042 Z1042	R119 R103 R105 R106 R105 R106 R105 R106 R105 R103 R103 R103 R104 R103 R104 R104 R104 R104 R104 R105	R119 R103 R103 R104 R105 R104 R105 R103 R102 R103 R102 R103 R103 R102 R103 R103 R103 R104	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45 45 45 45 45 4	P263 P237 P241 P243 P241 P243 P240 P241 P243 P240 P241 P237 P237 P240 P239 P239 P237 P240 P249 P249 P249 P249 P249 P249 P249 P249	P263 P237 P237 P237 P239 P241 P237 P237 P237 P237 P237 P237 P237 P237	P85F P84 P86 P86 P86 P86 P86 P86 P86 P86 P86 P86

\*Replacement Ring for Factory Installed Insert.

Engines using Propane, Butane or Natural Gas must use Chromatley or Lee-Lite Rings.

#### NASH AND RAMBLER AUTOMOBILES

Value   Marie   Mari										******									
See   1966, 1960, 4960, 5960, 5960, 5960, 5960   0						Pilot	Cas	t Iren	Lee		Chromalic						e Grien	l. Wh.	Ex. Pilot
1988 S. AMASSADOS   1.1   0.					885	Size	let.	Exh.	let.	Esh.	Exh.	Esh.	lat.	Exb.	Int.	Ezh.	let.	Exh.	Pilot No.
1988 S. AMASSADOS   1.1   0.	1946-49	4640, 4740, 4840, 4940, Nach 600	Own	6															
1988 S. AMASSADOS   1.1   0.	1946-50 1950-52	4660, 4760, 4860, 4960, 5060, 5063, 5068, 5069 BAMBI ER STATESMAM	Own	6															
1988 S. AMASSADOS   1.1   0.	1953-60	RAMBLER, STATESMAN, 6-5810, 6010	Own	6				•			,								
1953-84 ALMODES 106 (07) Regions   106   106   107	1950-56	AMBASSADOR, AMBASSADOR D.I.+	Own	6	3'114%	×		9	L168		19								
190-07   ALL MODELS   180 OF Eagles	1955 - 56	AMBASSADOR VB	Own				16A												
190-07   ALL MODELS   180 OF Eagles	1955-60	METROPOLITAN (56, 2%±3%)	Own																
199-07   All Models   190 W All-miners Engine   6   34-68   %   6   LICC   LG   #   210   100   20   20   20   20   20	1770-07	AMERICAN IPOL NOS		2				,			****								
197.75 At 1.1 Models 199. 212, 253, Vis. 10   10   20   20   20   20   20   20	1959-67	ALL MODELS 196 OHV Aluminum Engine		6	314x414	76		6			K				7,	٠,			
197-46   177 to   4.2,   6.1 - 2,   6.1 - 2,   7.3 to   8.1   8.1   1.3 to   8.	1957-75	ALL MODELS 199, 232, 258, V8-304 Engines		6	31.x3	×						ZB			30	45			P85
197-46   177 to   4.2,   6.1 - 2,   6.1 - 2,   7.3 to   8.1   8.1   1.3 to   8.	1960-69	ALL MODELS 287 Engine, 290 Engine, 327 Engine	4x314		31/431/4	*													
197-46   177 to   4.2,   6.1 - 2,   6.1 - 2,   7.3 to   8.1   8.1   1.3 to   8.	1966-69	ALL MODELS, 343 Engine, 390 Engine		1		. *													
1977-4   137 to 142, 441.7, 141.2, 441.75, 148					4.UBX 5.4	14 16	170	*****	LISC	LISCE	JISCE		R107	KIU	<b>5</b> U	*>	P245	P239	PED
1977-4   137 to 142, 441.7, 141.2, 441.75, 148				OLI	DSMC		LE	AUT	DMO	HLES									
1999-06 All Medin   1396 cabust   1396 cab	1937-48	L37 to L42, E41-2, I41-2, 68, 78, 98		1							I.B	72	R103	E 102	30	45	P237	P235	P\$4
1999-06 All Medin   1396 cabust   1396 cab	1941-50	F41, G41, H41, F42, G42, 66, 76 (31%x41)		6		16													
1999-06 All Medin   1396 cabust   1396 cab	1949-55	All Models (.396 exhaust) (1954-55; 3%x3%)					14	1			j <b>a</b>								
1961-45   1985					3'.134	"4			L16BE										
1961-75 330-394 Rejease (**C13***-) \$50 - (**13**-) \$50 - (*13**-) ***  1965-77 Foreside 45, 655, 34T. Was 6 A Car and 400 Engines	1957-60	All Models 1,570 exhaust! EBS FBS Surface FBS Let Fire	215	•	413 % 31:-196:	76	176		1 1 2115		JIZCE	ZIZCE							
1961-75 330-394 Rejease (**C13***-) \$50 - (**13**-) \$50 - (*13**-) ***  1965-77 Foreside 45, 655, 34T. Was 6 A Car and 400 Engines	1964-65	F85	225	V6	31,43%	Ž.	11	58											
1957-15   Tomasde 425, 455, 147, 1490 & A Car and 400 Expines   2 4 42.59   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1966-71	F85, 250 Engine	_	6	3".x3"%	14				77.									
1957-15   Tomasde 425, 455, 147, 1490 & A Car and 400 Expines   2 4 42.59   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1961-75	330, 394 Engines (4'4x3"4), 350 (4'4x3%)			3"ñ3"%	. %			L18E	L12CE	J12CE	Z12CE	R106	R104	45	45	P243	P238	P84
1971-75   250   L. & Engine	1965 - 75	425 Super Rocket Engines, 350 OPT., 455	427 Ind.		4'.,3%.	"w													
1974-75 260 Eagles   20   20   20   20   20   20   20   2							ZIDR		1140			7000							
Special production Lise-Life rings are available for F85 aluminum eagines   P841-45 FDLC							12CF					ZYBK							
1941-1-5 FDLC			inum e <b>ngin</b> e			•					,								
1941-1-5 FDLC				<b>.</b>	VED	CI I	T D		TRAC	TARE									
1932-54 DC, FC (Mc (1944) 1944-19   More (1942) 4 3 3 3 4 4 4 3 3 4 4 4 4 3 3 4 4 4 4	1941-45	FDLC Cummi											£107	R107	30	30	P245	P245	PE7
1937-54 A.D. (1934, EMPL 1 Herc. DOOL 4 cyl. Dereal   Herc. DOOL 6 4 d.vst. 1   1   1   1   1   1   1   1   1   1																			P87
1983-46   50HC, FOKD	1938-52	GG, HG (Herc, IXA2 4 cyl. 3x4) H	erc. IXK3		3'ex4	×.		6		L6	<b>J6</b>		R102	R101	30		P235		P83
1983-46   50HC, FOKD	1937-50	AD, ED38, ED42 (Herc. DOOC 4 cyl. Diesel He	rc. DOOD	4															
1983-46   50HC, FOKD	1944-58	AG6, AD6 C	ont. F226	6															
1983-46   50HC, FOKD	1030.56	RG RGS RGSS	Herr IXD	٥								710							
1983-46   50HC, FOKD	1936-56	DD Diesel H	erc. DRXB	6													-		
1983-46   50HC, FOKD	1936-58	DC Diesel	Herc. RXC	6							,								P85
1983-46   50HC, FOKD	1945-60	FDE Diesel, OC-18	erc. DFXE	6															
1983-46   50HC, FOKD	1955-62	OC12G	erc. JXLD	6															
1983-46   50HC, FOKD	1958.66	OC.43G OC43D (Here DD130) He	76 DKAL	3							110								
1983-46   50HC, FOKD	1963-66	DC-9 Hero	. DD2120	3															
1935-66 70HC, 70KD					R W	HEI	EL '	TYPI	E TR	ACTOR	15								
1997-64 80HC, 180KD-41-15% Motor: Wask V, VK 4 41-25% 8, 180 13HT L13D L13BT L13D L13BT R107 R103 45 45 P245 P237 P255 P36 P390-53 281-44, 90 Own 4 41-26% 14, 22 122 L22 L22 L22 L22 L22 L22 L22 L22	1935-46	70HC, 70KD Con											R 103	2101	30	45	P237	P233	P85
1950-53 24-4, 90							-	-					R101	R100					
1930-53 28-44, 90																			
1947-54 BRD, (BB-3½-4) (BBMC-3½-14) Own 6 3½-14 ½ 8 6 BR LB L6BR JGBR ZGBR R102 R102 R102 R103 R102 45 45 P237 P235 P85 P358-60 Supper 99H.C, 950HC Own 6 4½-16½ ½ 22 BBA L17C L17C L17CE J12CE J12CE R106 R104 45 45 P237 P235 P85 P359-60 Supper 95HC, 950HC Own 6 3½-14 ½ 10 L8R L10 LBR JBR ZGBR R102 R103 R102 45 45 P237 P235 P85 P354-60 Supper 55HC, 66HC, 77HC i61, 550, 570 Own 4 3½-13½- ½ 8 6BR L8 L6BR JGBR ZGBR R102 R103 R102 45 45 P237 P235 P85 P354-60 Supper 55HC, 66HC, 77HC i61, 550, 570 Own 4 3½-13½- ½ 8 6BR L8 L6BR JGBR ZGBR R102 R103 R104 45 45 P237 P235 P85 P354-60 Supper 59CM, 9900, 990CM, 995 Own 4 3½-13½- ½ 8 6BR L8 L6BR JGBR ZGBR R102 R103 R104 45 45 P237 P235 P85 P85 P354-60 Supper 99CM, 9900, 990CM, 995 Own 4 3½-13½- ½ 8 6BR L8 L6BR JGBR ZGBR R102 R103 R104 45 45 P237 P235 P85 P85 P354-60 Supper 99CM, 9900, 990CM, 995 Own 4 3½-13½- ½ 8 6BR L8 L6BR JGBR ZGBR R103 R104 45 45 P237 P235 P85 P85 P354-60 Supper 99CM, 9900, 990CM, 995 Own 4 3½-13½- ½ 8 6BR L8 L6BR JGBR ZGBR R103 R104 45 45 P237 P235 P85 P85 P354-60 Supper 166, 177 Industrial (6 Cyl.)  1958-60 Supper 166, 177 Industrial 880 Desel 6 3½-14 ½- 10 L6P L7P R103 R104 45 45 P237 P231 P85 P354-60 Supper 199 Industrial 880 Desel 6 3½-14 ½- 10 L2D L10 J70 Z10 R109 R109 45 45 P237 P231 P85 P85 P356-60 Supper 199 Industrial 880 Desel 6 3½-14 ½- 10 L2D L10 J70 Z10 R109 R109 45 45 P237 P231 P85 P85 P356-60 Supper 129 Industrial 880 Desel 6 3½-14 ½- 10 L10 L7PL R109 R109 R109 R109 R109 R109 R109 R109																			
1953-60 99HC, Super 99HC, 950HC											KER	ZARE							
1997-95   99, 900   990-55HC, 66HC, 77HC (6), 550, 770   Own   4 31/x33   1	1057.60	Cannar 99D 99D 95AD (4-4)									,								
1997-95   99, 900   990-55HC, 66HC, 77HC (6), 550, 770   Own   4 31/x33   1	1953-60	99HC, Super 99HC, 950HC	Own								JIZCE	ZIZCE	R106						
1995-60   Super 95CM, 990D, 990CM, 995   CM3-71   3 4%45   % 10   L10   L5CPH   J985H   2985H   R103   R101   R10   45 45   P237   P2	1957-54	THE SELECTION OF THE SECOND	Owa A								1/80	7/8-							
1995-60   Super 95CM, 990D, 990CM, 995   CM3-71   3 4%45   % 10   L10   L5CPH   J985H   2985H   R103   R101   R10   45 45   P237   P2	1954-60	Super SSHC, BONC, 77HC 101, 530, 770	Own																
1958-60 Super 95(M, 9900, 990CM, 995 GM3-71 3 4½5 % 10 L10 L5CPH J5CPH R103 R101 30 45 P237 P233 P84 1958-60 Super 166, 177 Industrial (6 Cyt.) 4 31x313 % 6 P 3P L6P L3P R101 R100 45 45 P237 P233 P84 1958-60 Super 189 Industrial 880 Diesel 6 31x4 % 10 4P L10 L4P R103 R100 45 45 P237 P234 P85 P358-60 Super 199 Industrial 880 Diesel 6 44x5% & 220 10 L22D L10 J10 Z10 R109 R103 R103 45 45 P237 P234 P85 P359-60 550, 660 4 31x31 % 9 8R L9 L8R J8R Z8R R103 R102 45 45 P237 P234 P85 P359-60 550, 660 Super 225 Industrial 880 Diesel 4 31x32 % 9 8R L9 L8R J8R Z8R R103 R102 45 45 P235 P235 P85 P359-60 550, 660 Super 235 S0, 660 Super 245 S0, 660 Super 245 S0, 660 Super 255 S0, 660 S0,	1954-60	Super 55D, 66D, 77D (6), 550DSL, 770DSL	Own			4					lan								
1958-60   Super 188   Industrial   6 Cyt.    4   3   iz3   3   6   6   3   4   1   1   1   1   1   1   1   1   1	1956-60	Super 99CM, 990D, 990GM, 995	GM3-71	3	4%±5					LOUSH		Z98SH							
1958-60 Super 189 Industrial, 880 Diesel 6 3½x4 % 10 4P LIO L4P			ont. F140	4		7	10		L10	L5CPH	15CPH		R103	R101	30	45	P237	P233	P84
1958-60 Super 199 Industrial 6 4c4 % 10 7R* L10 L7R* R103 R102 45 45 P237 P234 P85 P358-60 Super 225 Industrial 6 4c4 % 20 10 ID R10 R10 R103 R102 45 45 P235 P235 P236 P235 P235 P235 P235 P350 P350 P350 P350 P350 P350 P350 P3				4		×	6P												
1958-60 Super 225 Industrial 6 4 45x5% K, 220 10 L220 L10 J10 Z10 R109 R103 45 45 P251 P239 P86 P359-60 550, 660 Dissel 4 35x334 K 9 88 L9 L8R J8R ZBR R103 R102 45 45 P236 P235 P85 P85 P85 P85 P85 P85 P85 P85 P85 P8																			
1959-60 550, 660 Dissel 4 3 ki 3 k 9 8R L9 LBR JBR ZBR R103 R102 45 45 P236 P235 P85 1950-62 540 Cas Cont. F162 4 3 ki 3 ki 4 9 8R L9 LBR JBR ZGBR R103 R102 45 45 P236 P236 P85 1960-62 540 Cas Cont. F162 4 3 ki 3 ki 4 9 8R L9 LBR JBR ZBR R103 R102 45 45 P236 P234 P85 1960-75 550, 660 Cas Own 4 3 ki 2 k 3 ki 2 k 3 k 9 8R L9 LBR JBR ZBR R103 R102 45 45 P236 P235 P85 1961-75 550, 660 Dissel Own 4 3 ki 2 k 4 3 ki 2 k 8 6BR LB LBR JBR ZBR R103 R102 45 45 P236 P235 P85 1960-75 770, ISSO, ISSS Cas and LP Own 6 3 ki 2 k 4 5 P236 P234 P85 1961-64 870 Dissel Own 6 3 ki 2 k 4 5 P236 P234 P85 1961-64 880 Dissel Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P233 P231 P85 1961-64 880 Dissel Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P233 P231 P85 1961-64 880 Dissel Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P233 P231 P85 1961-75 JB00, IB50, ISSS, ISSO, ITSO, ITSS Cas and LP Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P237 P232 P85 1961-64 880 Dissel Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P237 P232 P85 1960-75 JB00, IB50, IB55, ISSO, ITSO, ITSS Cas and LP Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1960-75 JB00, IB50, ISSS, IB00 Dissel Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1960-75 JB00, IB50, ISSS, ISSO, ITSO, ITSS Cas and LP Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1960-75 JB00, IB50, ISSS, ISSO, ITSO, ITSO, ITSO Cas and LP Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1960-75 JB00, IB50, ISSS, ISSO, ISSS, ISSO, ITSO, ITSO, ITSO Cas and LP Own 6 3 ki 4 k 10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1960-75 JB00, IB50, ISSS, ISSO, ISSS, ISSO											110	Ž10							
1959-60 550, 660 Dissel 4 3 %x3%																			
1960-26 540 Cas Cont. F162 4 3%x43% % 10 LIO L5CPH J5CPH R103 R101 45 45 P237 P232 P84 1960-73 550, 660 Cas Own 4 3%x33% % 9 8R L9 LBR J8R ZBR R103 R102 45 45 P236 P235 P85 1961-75 550, 660 Dissel Own 6 3%x34 % 10 8R L10 LBR JBR ZBR R103 R102 45 45 P236 P233 P85 1960-64 880 Cas and LP Own 6 3%x4 % 10 8R L10 LBR JBR ZBR R103 R102 45 45 P236 P237 P235 P85 1961-64 880 Cas and LP Own 6 3%x4 % 10 8R L10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1961-64 880 Dissel, Super 88D Own 6 3%x4 % 10 8R L10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1961-75 1800 I850, 1855, 1950, 1750, 1755 Cas and LP Own 6 3%x4 % 10 8R L10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1961-75 1800, 1850, 1855, 1950, 1750, 1755 Cas and LP Own 6 3%x4 % 10 L10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1960-75 1800, 1850, 1855, 1950, 1750, 1755 Cas and LP Own 6 3%x4 % 10 L10 LBR JBR ZBR R103 R102 45 45 P237 P235 P85 1960-75 1800, 1850, 1855, 1950, 1750, 1755 Cas and LP Own 6 3%x4 % 10 L13CE LTR R104 R103 45 45 P237 P235 P85 1960-75 1800, 1655, 1800 Dissel Own 6 3%x4 % 10 L13CE LTR R104 R103 45 45 P237 P235 P85 1960-75 1600, 1650, 1655, 1650, 1655 Cas and LP (LP must use J or Z Rings) 2 R104 R103 R102 45 45 P237 P235 P85 1962-75 1600, 1650, 1655 Cas and LP (LP must use J or Z Rings) 2 R104 R103 R102 45 45 P237 P235 P85 1962-75 1600 Dissel		550, 660 Diesel		4	3%x3%														
1961-75   550, 660 Diesel   Own   4 31/13/14   % 9   6P   L9   L6P   R103   R101   45   45   P236   P233   P85     1961-68   770 Diesel   Own   6 31/13/14   % 6P   4P   L6P   L6P   R101   R100   45   45   P235   P234   P85     1961-68   770 Diesel   Own   6 31/13/14   % 6P   4P   L6P   L6P   R101   R100   45   45   P235   P234   P85     1961-64   880 Cas and LP   Own   6 31/14   % 10   R101   R10	1960-62	540 Gas	ont. F162	-															
1960-75 770, 1550, 1555 Gas and LP	1960-73	550, 660 Gas	Owa								jsk	ZBR							
1961-64   880   Casa and LP	1960.75	770 1550 1555 Cas and LP	UWR								1629	7689							
1960-64 880 Cas and LP Own 6 3½x4 % 10 8R L10 L8R J8R Z8R R103 R102 45 45 P237 P235 P85 1960-1961-75 1800, 1850, 1855, 1950, 1750, 1755 Cas and LP Own 6 3½x4 % 10 L10 L10 L10 L10 L10 R104 R103 45 45 P237 P232 P85 1961-75 1800, 1855, 1950, 1750, 1755 Cas and LP Own 6 3½x4 % 10 L10 L10 L10 L10 R104 R103 45 45 P239 P237 P85 1961-75 1800, 1855, 1960 Diesel Own 6 3½x4 % 10 L10 L10 L10 L10 R104 R103 45 45 P239 P237 P85 1960-75 1960 Diesel (4 Valve per Cyl.) GMC4-53 4 3½x44 % 7R L13CE L7R R104 R102 45 45 P239 P234 P85 1962-75 1600, 1650, 1655 Cas and LP (LP must use J or Z Rings) 6 3½x4 % 10 8 L10 L8 J8 Z8 R103 R102 45 45 P239 P235 P85 1962-67 1600 Diesel	1961-68	770 Diesel	Own								,								
1961-64 880 Dissel, Super 88D	1960-64	880 Gas and LP		6	3%x4	×	10		L10	LER		ZER	R103		45	45	P237	P235	P85
1961-75 1650, 1655, 1800 Diesel Own 6 3%x4 % 7R L13CE L7R R104 R102 45 45 P239 P234 P85 1960-67 1900 Diesel (4 Valve per Cyl.) 60 GMC4-53 4 3%x4% % 10 8 L10 L8 J8 Z8 R103 R102 45 45 P237 P235 P85 1962-75 1600 Diesel B103 R102 45 45 P237 P235 P85 1962-67 1600 Diesel C R104 R105 R105 R105 R105 R105 R105 R105 R105	1961-64	880 Diesel, Super 88D	Own				10				x¼								
1962-75 1600, 1650, 1655 Cas and LP (LP must use   or Z Rings) 6 3 x x 4 % 10 8 L10 L8  8 Z8 R103 R102 45 45 P237 P235 P85 1962-67 1600 Diesel R103 R100 45 45 P237 P231 P85	1960-75	1800, 1850, 1855, 1950, 1750, 1755 Cas and LP	Own	-							-	Z10							
1962-75 1600, 1650, 1655 Cas and LP (LP must use   or Z Rings) 6 3 x x 4 % 10 8 L10 L8  8 Z8 R103 R102 45 45 P237 P235 P85 1962-67 1600 Diesel R103 R100 45 45 P237 P231 P85	1961-75	1850, 1855, 1800 Diesel	CMC4 E3					7K	LIBCE	L/R			K104	K 102	45		F 459		
1962-67 1600 Diesel 6 3½x4 ½ 10 4P L10 L4P R103 R100 45 45 P237 P231 P85	1967.75	1600 1650 1655 Gas and I P (I P must use I e. 7	tions:				10		LIO	LR		78	R103	R102	45		P237		
	1965-75	1850, 1855 Diesel																	

\*Replacement Ring for Factory Installed Insert.

Engines using Preparse, Butane or Natural Gas must use Chremalley or Lee-Life Rings.

#### OLIVER WHEEL TYPE TRACTORS (Cont.)

								_		E SEATS			_				EAT C	
Year	Medel		Cyl.		Pilo Size	t Cast int.	irea Exh.	Lee- int.	Alloy Exh.	Chromath Eith	y Loa-Lita Exh <sub>i</sub>	K-O (				o Grind Int.		
145	1550 Dissel		6	35x3%	×	6P	47	LGP	L47			R101	R100	45	45	P 233	P231	PBS
	1550, 1555 Diesel			3',13%	×	9	44	L9	L4A			R103	R101			PZ36	P233	
	1650 Diesel 187586 Up. 1750, 1755, 1950 Diesel		6		ĸ		_		L98H			R105	R 103			P240	P237	
	2050 and 2150 Dissel		_						العنا المناد	<b>(</b> 4)			R105	45	45	P243		
	1250 Ges 1250, 1255 Diesel			3%±3% 3%±3%			7R	LOATH		) DE		R103	R102 R102			P236		
	1450 Dissel			4%x4.72			9	L12CE L12E		j94 19	Z9	R104	R103			P238 P239	P234 P236	
			_							,,			A 103	•,	**	,	,,,,	143
	All 6 and 8 Cylinder Engines 5400-01-02-11 5406-26-31		P	ACKA	*		ЛО <del>М</del> I	LIO LIO	LES .		Z8					P237		
	All 6 and 8 Cylinder Engines		61	11:44%	%	14	,	L14	L9	)8 19	Z9	R105	R 102 R 103			P241		P\$4 P\$4
954	5400-01-02-11		•	3%a4%	7		ý	L14C	L9	19	Z9		R103	30		P241		P84
954	5406-26-31 5540 (3'%#3'51, 5560, 5580, 5640, 5660		Ē	3%x41;			9	L168	L9	19	Z9		R103	30		P241		P84
955-56	3340 '3 'M3'1', 3360, 3360, 3640, 3660			4E3';		18	138	LIS	L138	•		R107	R 105	30	45	P245	P241	P85
56 167. SI	5680, 5688 Clipper 57L, Hawk			4%±3% 3%±3%	×	18	138 10	LIE	L138	110	710			30			P241	P85
737-34	Capper 37L, Flows							LI3CE		<b>J10</b>	Z10	R104	R103	45	*>	P239	P237	P84
				YMO														
	PC, PD, PE, PF, PG, PJ, P1 to P12, PTS7-81-105-			3'axF'a	<b>16</b>	9	98R	L9	L9R10	J9R10	Z9810	R103		45		P237		
955 955	P14 to P23, P24-1, P24-2, P25, P26, P30, LP1, LI P27 (241 Eng.) (200 Eng. 3'ux3'u), P29 (270 En			3'4±4', 3'4±3'4	Ti.		9	L10E L14CE		19	ZSRH10 Z9	R103 R105	R102 R103	45 45			P235 P237	PB4 PB5
 156.57	P29 (277 Eng.), P29-3 (303 Eng., 3'Sk3's) P31			3'.x3'.		148TH		L. 1CE	LIZCE	J12CE	Z12CE	R106					P237	PRS
57 60	301 Eng. (318 Eng. 375x3%) LPZ 1959 FURY		i	37° aug 16		148TH			LIZCE	112CE	ZIZCE						P239	PBS
<b>CO</b> 40	COLDEN COMMANDO 261 PET			41:-32/	2	IOE			L13CE	HISCE			R104				P239	P85
<b>60</b> ∙75	VALIANT 170 and PLYMOUTH 198, 225 13%a4	r.,	6	3"5#3%	*			L13CE		SE		R104	R102	45	45	P239	P234	P85
<b>60 69</b>	VALIANT 170 and PLYMOUTH 198, 225 - 3"5a4 ALL MODELS WITH 318 ENGINE ALL MODELS WITH 318 ENGINE Engines 361, 383 -4"+x3"++, 426 Thre 1965 -4"+x3			3,437	×	148TH	4		LIZCE	J12CE			R104	45		P243		P85
<b>49</b> .75	ALL MODELS WITH 318 ENGINE			3.91±3%	· 3•	148T1	H 10E		LIDE	J10E			R103	45		P243		PBS
61 67 K4 48	Engines 301, 383 (4'483'4), 426 Thre 1905 (4'483	1141, 440	•	4'+x3'i	7	ZIDK	10E	LIGBE	LIBCE	13C€			R104	45 45		P247 P241		PBS PBS
61.73	ALL MODELS WITH 273 ENGINE ALL MODELS 340 ENGINE 426 Engine 440 POWCE PAC			41-x3%	ķ	208	100	LIGHT	LISCE	JI3CE			R104		-	P245		
166-71	426 Engine			4'.x3'.	٧.		19E			,			R106	45		P247		PE3
				4"3".		ZIDE	17E					R 106	R105	45	45	P247	P241	P85
	ALL MODELS 383, 400 and 440 ENGINE (47mx)	3141		4'3'.		21DR			LIGBE				R105	45		P247		
71.75	360 ENGINE		•	4x3.58	'•	16	12CE	L16	LIZCE	112CE	ZIZCE	R106	R104	45	45	P243	P238	PBS
			F	ONTI			TOM	OBIL	.ES									
37-54	24, 25, 26, All Models (1937-40 6 cyl. 3'ux4)			31 at 4		10	9	LIO	L9	J9	Z9 .		R103			P237		
36.54	27, 28, 29, All Models (1950-54 31x31x)			3'+#3'-		8	7	L8	L7	<b>1</b> 7		R102				P237		P83
22) X	All Models 1990 15"425"+1			3'413'4	12 m		10	L14H			<b>TATEL</b>			30		P241		P84
	All Models (1958-45x3%) (1959-60-45x3%) Pontiac and 4 Cyl. Tempest			3"\±3% 4"\±3%		17E 17E			L985H	1985H	Z985H Z985H		R 103	30 30		P241 P241		P\$4 P\$4
	Tempest, also Optional 326 Engine (37mx312)			3':12"6	ν,	176		L98H		120311	479311		RIOZ				P234	PB4
	326, 389, 421 Standard			4'-113'4	"			LISE	LIZCE	112CE	Z12CE		R104				P238	P84
	Tompest, 6 Cyl., 215 Engine			3'.x3'.	₩.		9	L16E	L9	19	Z9		R103			P240	P236	P84
	389, 421 (10.75), 389GTO			41,,24		19E			L13CE	113CE			R104	30			P239	P\$4
<b>%6-67</b>	230, 250, Engine			3'+x3'4		19€			L13CE	J13CE			R104	30		P243		
767-71	428 Engine, Tempest and GTO 400			4" iz4		22E		LZZE	LIGUE				R105	30		P247		
100 T	350 Engine, 400 Engine 19'sx3's1			3'+=3'+ 3'+x3"%	"	19E	9	LVACE	L13CE L9ATH	J13CE ISATH	Z9ATH		R104 R103			P243 P240	P237	P85 P84
70. X	45 Beneville			4'.13'.	17 No.	208	,	LITCE	LISCE	HISCE	27AIN		R104				P239	PB4
971.7S	230, Engine 428 Engine, Tempest and CTO 400 350 Engine, 400 Engine (4'xx3'-; 250 Engine (16'; 455 Benneville 455 Grand Ville 1451 A Engine				מר"	21DR			LIGE	J16E		R106		30		P247		PB4
775	140 L4 Engine			3',x3".				L13CE		JBE						P239		P84
975	260 V8		8	3,5x3.39		IZCE		LIZCE	LEBP	J6BP		<b>R104</b>	R102	45	45	P238	P234	P84
HECTEL I	reduction Lee-Lite rings are available for Pontiac	•		•														
				RUCI						LES								
	1A4-1DA4H, 184-1D4, 28-2L, 284-2L4, 6A, 6D C			3'ex4%	14	15	15	LIS	L15			R106		45		P243		P84
1 <b>39</b> -45 144-45		228		3'+x4'+ 4'+x5'4	× K	15 19	15 16	L15 L19	L15 L16	116	716		R106 R106			P243 P247	P243	785
		mt. 22R501 Vauk. MZR		4'-24%		18	SET	L18		116	Z16					P245		PBS
		auk SRKR		4'-15%		20		L20	LIZT	1127						P247		
	Series 16, 20, D21, 21H, 22, 121	GCZ88		3'115	×	14		L14	L128U	,			R104	45		P241		P85
<b>39</b> -50	Series 12, 14, 19, 119, 20, 21, E19	GCZ45	6	3',=4%	ĸ	14		L14	L1ZSU			R105	R104	45			P239	P85
	Series 18, 21R, D2Z, 22H, 23, 12Z, 226	GC310	6	31415	8	14		L14	LIZBU				R104	45		P241	P239	P85
	238, 23H, 23L, 23T, D23S, E23S series, D235	T6371	6	4' x4';			138U	L18	LT3BU		Z138U		R105	30			PZ41	P86
	D23, Series 23, 25, 236, 37TB, 37CB 30A, 30B, 306 (31, 316 Cont. R6602-4*x5*x) C	T6427	6	4%ar4%	K.	18	138U 1884	L18	L13BU		Z138U	R107	R105	30		P245	P241	P86
	Series E21, E216, F122 Series Bus	OA292		4'1x5'é 3'ex4'é	×	22 19C	10-4	L22 L19C	LIBBX	]16K	Z188X Z16K	R109	R106 R106	30 30		P251 P247	P247 P243	PE7
	Series E22, E226, A375, A475 Bus	OA-331		4'.z4'4	ĸ.	19C		L19C		)16K	Z16K	RIGE					P243	P86
51		ik 140GKB		4' ,15' ,			10AU	- · / <del>-</del>	LIOAU		ZIOAU	R109					P239	786
50-58	Series F20, F21, F23DT, F120G, F120H	OA255	6	31,84%	۲,		16U	L19C	L16U					30	30	P245	P243	
50-54	Sories F22R and F225, F226, F226M, 331LPG	Own	6	4'124'6	K,			L19C	L16U			R107					P243	P86
50.56	Series EZ1, E216, F22A, F22T, F22B, F22C, F22L,		_	<b>.</b>														
44	F122], F22-1, F22-2, F22-3, F22-T	Own 292		3'.x4%		19C	138**	LISC	1 2300-	)16K	ZIEK	RICE				P247		
		6427 Cent. um.  85600		4\x4% 4\x5	K,	18	13BU	LIB	LIBBU	• •	Z138U	K 107	R 105	<b>5</b> 0	45	FZ45	P241	786
		Int, 240		3%x4%	*	12C	9	LIZC	L9	<b>j9</b>	Z9	2104	R 103	30	30	P235	P722	986
			•	2.4.4												, 43	-433	760
954·56	F14-1, F14-2, F14R, F14RY - DA142, DA145, DA160, DA170 (DA100, DA110)		6	4'4#4'4	М.	lataka	Z1801	15	Exhaust	116K - 71	ek.	R107	RIOK	30	30	P245	P 242	PEC
154-56 154-75	GA142, GA145, GA160, GA170 (GA100, GA110)	31,±4%)	6	4'ix4'i	X,	intako	Z180	15	Exhaust	]16K er Z1	ek.	R107	R106	30	30	P245	P243	PB6
954-56 954-75		35±4%)		4'6x4'4 3%x4% 4%x4%	K,	Intake	Z180     Z180     Z180	15	Exhaust		<b>SK</b>					P245 P245		

\*Replacement King for Factory Installed Insert.

Engines using Propane, Butane or Natural Gas must use Chromalley or Lee-Lite Rings.

#### STUDEBAKER AUTOMOBILES AND TRUCKS

				•						VALVE	SEATS						5	EAT C	RINDE
Year	Medel	Mak		Eng. Cyl.	865		Cast lat.		Lea- let.	Alloy Exh.		loy Los-Lite Exh.	K-O l				o Crimi	l Wh.	Ex. Pile Pilet N
H2-42	President 82, 18, C, 1C, 2C, 3C, 4C, 5C, 6C, 7C	. ac	Own	1	3ku4%	У.		6	u	LG	K		R 102	R101	45	45	P235	P233	PM
<b>34</b> -50	Commander 7A to 17A		Own		3Ka4%			6	L9	ü	jé		R103	R101			P237	P233	PB4
	Trucks 245 cu. in		Own		3%±4%			6	L9	L6	<b>j6</b>	*******	R103	2101			P237		P84
	Trucks M5, M15, MA15, R5, 2R5, R10, 2R10, R15				3x4	Χ,		6	L7	LG	<b>J6</b>		R102			45	P235	P233	P83
	Champion G. 2G to 14G, 15G, 2G, 16G, 56G (3x4) Commanders H. 3H, 4H, 5H, 5HY		Own	6	3x4 3%x3%		7	6	L7 L8	L6 L6	<b>J6</b>			R101			P235	P233	P83
	568, 56H (3%x3%) 16G Early 3%x21%			i	3%u3%	-	•	10	LIBCE		<b>J6</b> J10	Z10	R104				P235 P239	P233 P237	P84
56	Golden Hawk			Ĭ	413%		18	139	LIS	L138	,	2.10	2107	8105			P245	P241	
55-64	All V-8 Trucks, 259 Eng., Lark 8				314314			10	L13CE		J10	Z10	R104	R103			P239	P237	PH
	Scotsman, Lark (3x4) 169, 186 Eng.				3x4%		7	6	L7	LG	j6		R102	R101			P235	P233	P83
	All.V-8 Cars and Trucks, Hawk and Avanti				31.43%			10	L13CE		110	Z10	R104					P237	P84
61-66	Lark 6 Cyl., OHV Engines		••••	6	3x4	%			LIZCE	LB	j <b>a</b>		R 104	R 102	45	45	P238	P235	P\$4
C) 48	All Models and Karmann-Ghia	36 HP		2.03	x 2.52		KS	NAGE								40			
	Trucks, Camper, Psgr., Karmann-Ghia, 1300				x 2.52				Z3AT Z6T45			Z3AT Z5T45		R742 R743					P8275
		50 HP			× 2.72					ka J&K		Z6T45		R743				_	
	411 Series (Exhaust 9MM) (P8354)						Int.	1% x 1%		Exh. 1% x	1% ± %	Z6T45							P831
	Dasher				k3.15										45	45	P237	P233	P8315
<u> ラ</u>	Scirocco, Rabbit				x3.15										45	45	P237	P233	P8315
OTE:Z	3AT, Z5T45 and Z6T45 are oversize rings as it i Se GL1276 Available from-stock for 36 H.P. engit	is usual ne Re	ly nec placea	essan ble V	r to clea alve Gui	e upr de CL	ecess   1315 :	by cuttin available	g slightly from sto	y larger hol ock for 40	le after re H.P. Engie	moving fact a.	tery ins	talled	valve	163	t. Rep	deceab	de Vale
	•		•					EN		_		•							
	68M, CD80, 278 (68K, 68KH-31:x41:x) 68A		Own	6	31x4%	*	13	8	L13	L8	<b>j</b> 8	Z8					P241		
	140GS, 140HS, 150GK, 140HK (4';x5';) V, VIS, VIM, VIL, VIK		Own	6	41.45%		18	13	L18	L13	J13	Z13	R 107	R105	30	45	P245	P241	P86
) · 10	Y, YIS, VIM, VIL, VIR.		Own	}	4%,4% 45x5%		18	18	1	. 18			8107	B 18=	,-	45	B345	8745	
0.48	VK, VBKH (41,x514) VBZH, VRZG, VRZH (41	.z5'11	Own	4	41.45%	* *		13	Lid LIB	L18 L13	113	Z13		R107 R105				P245 P241	P85 P85
	130G5, 130H5, 130GL and 130HL 4±5		Own		3'.x5		16C	13 88T	L16C	LEBT	113	213	R106				P243	P237	PM6
10·50	145GS, 145HS		Own		41.x6	И		198	L25			• •	RITI	R106			P255	P243	P87
	6NK, 6NKH		Own		718',	Χ.	31			L278Y	J278Y	Z278Y	R114	R112	30	45	P259	P255	PBS
	6SRKR, 6SRLR (43xx51x)		Own.		4'.x5'i	*		12T	L20	LIZT	JIZT		R106	R104			P247	P239	PBS
	60 Z		Own		4x4'4	*		1	L13	L8	j\$	ZI	R 105		45	45	P241	P235	P85
	1800AC, 1800LC (315x312) 1900LB, 1900LCA		Own Own		31431	*		4	L8	L4			RIOZ				P235	P231	P85
	145CK, 145HK, 145CZ (5), in. cyl.)		Own	6	31.x4 51.x6	* '4	25	6	L10 L25	L6 L178X	16			R102	34	45	P237	P235	P85
	190CL		Own	-	31.14		8	6BR	LB	L68R	<b>1688</b>	Z6BR	R111	R107			P255 P235	P245 P233	P87
	6MZA, 6MZR (6MKR-4'+x4'+), late models		•	•		•	•	•••			PO O W	745-	H102	*101	٠,	7,	1233	7233	, 63
	require 138U exh. ring		Own		41,247		180	88T	L18D	LBBT			E 107	R103	45	45	P245	P237	P85
	X, XA, XAH (31:x41:) XAK (31:x41:)		Own		3',14',		10	10	L10	L10	J19	210	R103	R 103	45	45	P237	P237	P85
	6WAKD, 6WAKDS		Own		6'.16',		30		L30	L22AY	JZZAY	ZZZAY		R109			P255	P251	P87
3-58 11-71	185DAC		Own		35.x35.		•	4	u	L4			R102				P235	P231	PBS
11-71	- <del>-</del>		Own Own		3'.14	¥,	3	IBH	L3 L7E	L7E			R100	R99			P229	P229	P83
	180-GL Series, 185-GL (1953-54)		Own	4	3',x3'.		68R	6BR	L6BR	L/E	j68R	268 R	R102	R 102			P234 P234	P234 P234	PB3 PB5
	180-GK Series		Own	4	3'.x3':	ų,		8R	L9	LBR	josa jen	28R		RIOZ			P236	P235	MS
	180-D Series		Own	4	3'743%	- 1		48	LE	L4P	1			R100			P235	P231	PES
	190-C Series		Own	6	3'ex 4	4	8	6	LS.	L6	L6		R102	R101			P235	P233	P85
<b>1</b> -67	190-G Series, 190GLB		Own -	6	3'++ 4	1	10	6P	L10	L6P			R 103	R101			P237	P233	PB5
	F-283-6 Series		Ow=	_		4		10		L10	110	Z10		R103			P239	P237	PES
	195-C Series, 195CK 195-D and 197-D Series		Own		4' sk4		17C		L17C	LIZCE	J12CE	ZIZCE	R106	R104			P242	P237	PBS
	135GZ Series		Own Own		4x4 41,x5	¥ .	208	10	L14CE	L16BE	110	Z10	R105				P241	P237	P85
	135-D Series		Own		4'.x5	ν.	200		LIBE	LISCE	J13CE		R107 R106	R105			P245 P243	P241 P239	PK PK
	140-G Series, F554G Series		Own		4'2x5'i		20D	10AU		LIDAU	JIQAU	ZIOAU	R109	R104			P251	1237	PK
	145-G Series		Own		5' x6	1			L26		J198X	Z198X		R108		-	P255	P247	P87
	148-D Series Requires 2'4x2'1x'4 Int. Ring		Own		5' • × 6	٠,				L190			R110	R 107	45	45	P251	P245	PE7
	WAK Series, F-1197-G Series 2x2%x16 Exh		Own		5'+x6':		30		L30					R110	30	-		P251	P87
	WAKD Ser., F-1197-D Ser. Regs. 21ex2"\(\alpha\) 1et. Int. I				6'.x6':	`,		22D		LZZD				R109			P255	P247	P87
	NK (F1905G), NKD (F1905D) Ser. Reqs. 27/x31/ix		King		7x8'.	3		31C		13389		*****	R116	R113	30		P261	P259	P89
	LRO (F2894-G) Series Requires 314x315x35 Int. II LRZ (F-3520-G) Series Requires 314x414x25 Int. II				8':18': 9':18':	ν.		36		L338X		Z331X					P263	P261	POOL
	VLRO (L-5788C) VLRD (L-5788D) L7040G (9%		• • •					,			Exhaust 2	0		R115			P263	P263 P261	PROL
	F817G Cas				5'+x6	14	28		L28		II98X	Z198X	R117				P255		PR7
0-75	H1077G, H1616-G Series, H1077D and L1616D S	eries			51/x5%			180	LIBU	L18U	J18U	ZIBU		R107			P245		
0.75	F1905GR Series			6		3,		31C									P261		
0.75	F2895G, F3521G, L5108G, L7042G			6		¥,				ist 25 x 3							P261		
										AND B									
U-50 U-54	20A, 30A (100A-3%x4's) (110A-3%x4's)		Dwe Dwe		3%x4%			13T	L12	L13T	113T	Z13T					P239		
	120A (130A-4±4%) ( 140A-3%±5%) (150A)	,	Dwa	12	4'1x4%	η.	10	160	L16	L16U	***		R 106	R106	50	75	P243	F243	77
.,-,-	250A-4x5%) (% exhaust) 450A, 460A, 462AA	(	Own	6	3%x4%	3	18	13T	L18	L13T	[13T	Z13T	R107	R105	45	45	P243	P241	MK
6-52	260A, (280A, 290A-45x5) 370A 44x44, 380A 4			٠	J +A +//)	•				2131	,,,,	2.31	R 107	-103	77	7,	1443	1441	. 43
	390A, 490A 4%x5, 470A 41x5		Owa	6	41.25	X,	22	18U	L22	L18U	J1 <b>8</b> U		R109	R107	45	45	P251	P245	P86
	116A*	. (	Own	6	314x4%	*	18	13T	LIB	L13T°	JIST.	Z13T					P243		
	Freightfiner	CUMP	4HB	6	514±6	%	14	14	L14CT3	0 L14CT30		Z14CT30							
54-71	142, 145, 6-162, 6-190, 220, 235, 160, 170, (100			_					_										
	3%x4%), 130 (3%x4%) (185, 186 4%x4%) 200 (4	14x44.	1		4'4x4%			Z180J1			Exhaust 2						P245		
4.71	8-235 (4%x4%), 8-207, 8-220 LPG, 8-250				3%14%			Z180J1	5		Exhaust 2						P245		
	C1466 C1466 C																	B 725	
11-75	G1400, G1600 Gas D4800, D4800T				4x3½ 4x4%			. J14T		txha: x "ii, Exha:	ust 1% x 1			R104			P243		

\*Replacement Ring for Factory Installed Insort.

### SMALL ENGINE VALVE SEAT TOOL SPECIFICATIONS

BRIGGS AND STRATTON ENGINES

		VALVE SEATS SEAT GRINDE Eng. Pilot Cast Iron Lee-Alloy Chromalloy Lee-Lite K-O Cutter Seat Angle Grind Wh. Ex. Pilo														RINDER	
<b>U</b>	Mada	Mat.															Ex. Pilot Pilot No.
Year	Medel	Make	Cyl.	865			Ezh.	lat.	Exh.	Enh. Enh.							
	14, 19, 24, 191, 193, 200, 231, 233, 243 Series 5, 6 (2x2)	Own		2=11-2		6CR 1C	6CR FC	L6CR L1C	LIC'		R101 R R731 R	101	-	-	P233 P225	P233	P83 P955
1949.73		0-		2'4=2		2	ic	1.2	LIC	7911		731			P225		P955
	68, 88, 65, 60000, 80,000 with Int. and Exh. Same					1CP	ICP		LICP			731			P 225	P225	P753
	9, 1974-75 110,000 Series 88, 88-FB, 88-R6, 88-H, 88-HA, 8000 Series	Own Own		214±214 21+±114		3P ICP	3P 1CP	L3P L1CP	L3P L1CP		R738 R R731 R				P229 P225	P229	P83 P955
	60000, 80000 Series (2'sx1'4), 68, 88	0		21/x11/5	×		ICP	LŽ	LICP		R734 K		45			7226	P955
1959.73	130,000: 140,000: 170,000: 171,000: 190,000 Se	ries Ow		21:424		6CR	6CR		L6CR		RIOI R		30		P233		P83
	100200, 100900 300 Senes, 1974-75 302, 326	0-		2".±2% 3%±3%		3 <b>P</b>	Z 6CR	LBP	LZ L6CR		R738 R					P227 P233	
1707-73	300 Series, 1974-75 302, 326	-		3 643/4			TON	LIJOE	LUCK		KIOT K	101	7)	7)	r237	743	res
1948-67	500, 600, 700 Series	4 cycle	. 1	2=1%		IAH:					R736		44	44	P2.78	P228	P953
1950-67	800, 1100 Series (1956-58-1100 Series 21x821x1)	4 cycle	1	2'41%	×	1AH:	TAH				R736				P228	P228	P955
	700. B00 Series 900, 494	4 cycle		2%x1%			TAHT				R736		44		P228	7224	
	V1200 Series 14971, V1200 (499), \$1290 (498) 100 (400 ) V5100 (401) 2.5 H P.,	4 cycle	. 1	2"ma2%	. ж	IAH	. 1 <b>4</b> H+,				R736		44	44	P228	P228	P955
	2100 402: VS2100 403	4 cycle	s 1	2°+x1%	¥	101	1C <sup>†</sup>	LIC+	L1C+		R731	J	44	44	P225	P225	P955
1956-75	3100 (404) 3.25 H.P., V53100 (405) 3.25 H.P.																
	H3100 (406) V3100 407), 3100 (408) 3 H.P. V53100 (409) 3 H.P. V5100 (411) 3 H.P. V5310																
	(415) 35 H.P., V3100 (417) 325 H.P., 310	0															
1654.75	426 3.5 H.P	4 cycle	, 1	71%	×	101	IC)	LIC	LIC		R731		44	44	P225	P225	P955
1994-75	412, 413, 1600 :414 , 1600 :416: 1800 :418:, 2500 :420: 2790 :422:	4 cycle	. 1	2"4424	×.	68	6P	L6P	L6P		R744		44	44	P237	P233	PE3
	410, 419 Series +4 H.P.		1	2',21'.	٠.	287	Exh 3	¥ x 1.01	25 a %.		R736						P955
-R712 R	iseater Shank may be used. New Models built si	nce 1962 a					-										
		_						ن. با									
	AA7, AA78, AU7, AU75 AA7, AA78, AU7, AU75, AU78, AU7R, AD7, A	Owi AD7B	• •	2.12	¥	'	1	'	t.		R732		45	45	P226	P226	P965
.,,,,,,,,	AW7, AW78, AC5. AC6. AU8 AU88 AU8R,																
	AWB. AAB. AUSS. AUSSR ADES, AW85	Dw-		2'+=3		10	10	٦C	LIC		£731					P225	
	AU10. AU10R. AD10. AW10 AU75. AU75R	Owi		2142	% %	2AH	ZAH ZAH			16	R738						7965
1900-13	A073. A0738	-	• •	CHI				.6 P.I.N.E4		)6	R744 E	/30	30	1)	F227	F233	1303
1942.43	M6, M7 -(21x21x) M8 -(21x21x) M9 -(3x21x)	Owi		2'.12'.			67	GINE!	167		RIOI R	101	45	45	P723	P732	P83
	218 and 109	•	1			-		zhaust 1º			#102 R						
				KO	HL	ER	ENG	INES									
1952.75	K90, K91		, 1	2'+=2	14	2	10	LZ	LIC		R734 R	731	45	45	P228	P225	P95
	K121, KV121			2'12'			ZBC				R73B R				7229		P95
	K141, K160, K161, KV161, L161, K141, K161, 19 K181, KV181, L181, K241, K301, K482, (1963-73			2" = 2"			4P 4P	L SE	L4P L4P		R102 R				P235 P235	P231 P231	P83\$ P835
	K321 1971 73 K341 3 x3 . K532 1972 73			3' +x3' 4			B	LB	LB	J8 Z8	R102 R					PZ35	P835
	K331, K660, K662, 1953, 73			3'.x3'.		10C			L7C		R103 R						P84
טו⊹וכצו	L600 L654 1969 1973			2'.x3		ZAH					R100 R	100	*>	45	P226	P231	P835
1948-54	LMC, LMH			Part,			IEC	UMSI	. 77		R732		45	45	P224	P224	P055
	RSC, RSH. RSV. 55A, 55AB. All 55 Series		Ŧ	2×1%	×	184	18H:				R734 R		45	45			P955
	PAH, PAC, FAX			2'2'.		571	5P				R742 K		45			P232	P835
	P25, P27 TLC, TLH, TLV			2'+12'-		5P† ZBC†	SP- ZBC:				R742 R'				P232 P228	P232 P228	P835 P835
	SLV, VA			2'-1%		TBH:	18H:								P2.27	7227	P955
	H25 and V25			25.01%		IBH:	18H:				R734 R				P227	P227	P955
1957-58	H40, 50, 60 and V40, 50, 60		1			SP.	4P:	L4P: L4P*	L4P: L4 <b>P</b> :		R740 R				PZ31	P231	P835
1958 60	H, HR, HB. 35 and 40, 45, 55 V, VX, VC, VCK, 35 and 40 H, HR, HB, 17 through 25 H, HR, HB. 27 through 30		i			491	49:	L4P*	L4P:		R740 R		45 45		PZ31 PZ31	P231 P231	P835 P835
1958 60	H, HR, HB, 17 through 25		1	2'+x1%		18H:	18H:				R734 R					P227	
1958 60	H, HR, HB, 27 through 30 V17 through 25 (V22 and V25 25x13c)			25-at 1%		2C+	ZC'				R734 R					P227	
				2' (#1% 25.#1%		TBH	1BH:				R734 R		45 45		P227 P227	P227 P227	P95\$ P955
1958-75	LV. LAV and H 22: 25: 30: 25: (Long Life)		1	25x17k	. ×		2C				R734 R					P227	
1330-73	T O' I 380 HI TO. 30 OU. H/U, T/U TH/U. HI	70 Series				4P	4P	L4P	L4P		R740 R					P231	P835
1964-75 1969-75	HH80, HH100, HH120, VH80-100-120		1		×.	6A	68	L6A	L68P L68	Int. BacPara	R103 R		45 45		P236 P237	PZ34 PZ34	P835 P835
	LAV and HS40			21.417		28 H	20				R736 R					P227	P953
1970-75	V and HBO		1	3'-=2"	, ,	6	4	L6	L4	Z4	R744 R	740	45	45	P233	P231	
		W		NSI			COO		ENGIN	IES							
	ABN, ABM AKN, AKM		1	2':x2'. 2':x2':			3	L3 L6	L3 L6	16	RIOD R						PB3S
	AEH, AEHS, AEN, HAENL, TE (Z cyl.), VE4 (4	cvl	i			6R	6 <b>R</b>	L6R	L6R	16R	RTO1 R		45 45		P233 P233	P233 P233	P835 P835
1975	AENL		1	3×3'.	٠,	6R	6R	L6R	L6R	j6R	R101 R				P233	P233	P835
	AFH, AGH, (3'1x4')		ŀ	3'.24		10R	TOR	LIOR	LIOR	J10R				45	P237	P237	P835
1949-67 1975	TF, TH, TFM - VF4, VE4, VE4D, VH4 4 cyl - THD, T(D, +VF4D, VH4D 4 cyl.)		2				6R 6R	L6R L6R	L6R L6R	j6k j6k		101 101	45 45		P233 P233	P233 P233	P835 P835
	VP4, VM4, VC4D 1975 VP4D		i		्		10R	LIOR	LIOR	JIOR		1103				PZ37	
	ACN, BRN 1975 - 2"ex2" HACN, HBKN		1				6R	LER	L6R	6R	R101 R	101	45	45	P233	P233	P835
	AGN, AGND -1975:		1		, K,	10R 19Y	FOR	LIOR	LIOR	J104 Z19Y	R103 R					P237	
1958-73 1962-73	VR4D V-460D, V-461D, 1967-68 V-465D (1975) 4 cyl	3'.z4		- 4%x4% - 3%x4	. ¥ , ₹	108	6R	LIOR	L6II	16R	R108 R						
	\$-7D, \$-8D (3'ix2'+)		,		ĸ,		6R	L7	L6R	j6R	R102 R						
	TR-10D, +1975 - TRA-10D, TRA-12D 3'sx2'+ +15	775		3' +×2'		6R	61	L6R	L6R	76R	R101 R						
1969-75	\$100 (3143); \$120 (3143); \$140   1:1" Hex Socket N." Threaded and or P399 N." He	. Carlas		31.x3 exded en					'us!'us''u ad R700	Suscial reseator cot and	RT03 R P202 spec	:103 - آمان	45 alva -	45	7237 ********	P237	P835
	I to service foreign cars, small stationary engines.									-p research per and	v. spec				* · · · · · · · · · · · · · · · · · · ·	>=1 <b>4</b> 1	

Replacement Ring for Factory Installed Insert

Engines using Propane, Butane or Natural Gas must use Chromatley or Lee-Lite Rings.

## **VALVE SEAT INSERT RINGS**

Rings are made from the highest quality material. All rings are individually cast to insure close grain and uniform material throughout. A complete chemical analysis is made for each heat of castings produced. A random sample of each size casting is taken for x-ray evaluation. Any heat not to specifications is scrapped. Final inspection after machining gives complete quality control. Ring O.D. fractional sizes shown indicate recess diameter ring is designed for. Press fit is on O.D. of ring. Ring O.D. decimal sizes are exact size shown. Press fit must be allowed by cutting recess under this size.

#### **CAST IRON**

Individually cast gray iron. These rings have a closer grain structure than the original block. Recommended for most intake applications and engines not originally equipped with inserts. These rings are not recommended for engines using propane, butane or natural gas. Chromalloy or Lee-Lite Alloy rings must be used.

PACKAGED IN A BLACK BOX 12 RINGS TO A BOX SOLD IN BOX VIANTITIES ONLY

#### LEE-ALLOY

This individually cast Lee-Alloy ring is an iron base casting, containing Nickel, Chrome and Molybdenum. Heat treated for toughness and resistance to wear. Recommended for light and medium duty. These rings are not recommended for engines using propane, butane or natural gas. Chromalloy or Lee-Lite Alloy rings must be used.

PACKAGED IN A RED BOX 6 RINGS TO A BOX

SOLD IN BOX QUANTITIES ONLY

## CHROMALLOY

This individually cast ring is an iron base casting containing Molybdenum, Tungsten and Chrome. Heat treated for toughness and resistance to wear. Recommended for all applications.

PACKAGED IN A YELLOW BOX 6 RINGS TO A BOX SOLD IN ANY QUANTITY

#### LEE-LITE

This individually cast ring is a Nickel base casting containing Nickel, Chrome and Cobalt. This material does not respond to hardening by normal heat treating methods. Parts are stress relieved. Lee-Lite rings are made for the job application where all other rings fail. They may be used on any type engine, but they are designed for extra heavy duty engines. Must be used when these engines use propane, butane or natural gas. They retain their hardness under red heat. Lee-Lite rings are particularly adaptable to aluminum engines.

PACKAGED IN A BLUE BOX 6 RINGS TO A BOX SOLD IN ANY QUANTITY

# Special Inserts Made To Customer's Specifications

Sizes or Oversizes Not Shown in Regular Listings

SIZE RANGE	1 1	1 <b>i</b>	1 - 1	
Up to 11% O.D. x % thick				
1½ to 2 O.D. x ¾ thick	0	6	🚄	2
2 to 2 1/4 O.D. x 1/4 thick			0	=
2 ¼ to 2 ½ O.D. x ½ thick	171	4	) <u>F</u> )	1 📑 1
2 ½ to 21% O.D. x ½ thick	5	[ &	5	ايوا
2'% to 2'% O.D. x ½ thick	ä	8	≦	ا بو ا
2兆 to 2兆 O.D. x ½ thick	ŭ	•	<u>동</u>	
21% to 3 % O D x % thick			O	

Above seats furnished with 45° angle unless otherwise specified.

Cast	Iron	Lee-Al	lloy	Chroma	lloy	Lee-Li	te			
ing No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Insert Ring Dimensions	Cutter No.	Shank Side
C CP		L1C L1CP L1						%x1%x% %x1%x% %x1x%	R731 R731 R732	
	<del> </del>	<del></del>	ATER SHA	NE NO. R712 MU	ST BE US	D WITH R731. R	1732. <b>R73</b> 4	AND R736 CUTTERS.		<u> </u>
H	1	1			T	T		'%ax1x%	R732	Г
BE	-		Ì					%«x1%«x%«	R734	l
HA					l			1%x1%x%	R736	
	ļ	LIDR			<b>.</b>	ZIDR	L	'Ka1'4x'4	R100	K-Side
KC .	Ì	1	ì		}			%x1%,x%;	R734	
BC	1	L2	•		1	1		%x1%,x%, %x1%x%,	R734 R736	ŧ
B BP	1	L2B L2BP					1	%x1%x% %x1%x%	R736 R736	
Ä	1	Labe						%x1%x%	R100	K-Side
				J2BTH30				3%, to 3%, taper x 1.160 x %,	Spec.	
BH	<del> </del>	<del>                                     </del>	<b>-</b>	t	<del> </del>			¹¾4x1½x¾4	R736	
		L2BRH	ļ	1	<u> </u>		1	%x1%x%	R736	١
PAH	ļ		ļ	ļ	Ļ	<u> </u>		14,x17,x44	R100	O-Sid
B BP		L3 L3P	Ì		1		]	1x1%,x%,	R100	0-Sid
l .	İ	L4				Z4	1	1x1%x%; 1x1%x%;	R100 R100	K-Sid
(P	]	L4P L4P5				-		1x1½x½ 1x1.260x½	R100 R160*	K-Sid
	Ì	L4TH8			ľ		1	1 to 1%, taper		"
		L4TH20	ĺ					x 1.263 x 1/2 1 to 1 ½ taper	Spec.	
R	1		[	Į.	•	ł	1	x 1.275 x 1%	R100‡	K-Sid
iā.		LJA	l	Ì	ł		Ì	1x1¼x¼ 1x1¾x¾	R106 R101	0-Sid
IA		LAA	1		1	ZSAT		1x1%x% 1x1%x%	R101 R101	0-Sid
-		Lidu	}	J4DU	İ	Z4DU	ļ	1x1%x3%	R103	O-Sid
IDX	<b>↓</b>	<u> </u>	<b>-</b>		<del> </del> -			1x1'X <sub>6</sub> xX <sub>6</sub>	R104	0-Sid
5		L5				<b>Z</b> 5		1%,x1%,x%,	R101	0.Sid
SP.			ļ	J5T45		Z5T45		1½x1½x½ 1½x1.362x¾	R101 Spec.	0.Sid
B		L5B				20110		1%x1%x%	R101	K-Sid
5A	L	LSA			<u></u>			1%x1%xX6	R102	O-Sid
					1	Z5H30		1½x1.2875x½	R100†	K-Side
				ļ		Z6H45	1	1½x1.300x¼	R100¶	K-Sid
	1	L5CH L5CPH		J5CPH			1	1½x1½x1¾	R101 R101†	O-Side
		L5CPH10	}	J5CPH10				1½x1.3487x¾ 1½x1.3587x¾	Spec.	O-SIG
ICR	<del>                                     </del>	Leco	<del></del>	<del> </del>	<del>                                     </del>		<del>                                     </del>			0-Sid
~ B	1	L6CR	1	J6T45		Z6T45		1½x1½x½ 1½x1.362x¾	R101† Spec.	0.316
8		L6	1	J6	1			1½x1½x%	R101	K-Sid
IP.		L6P	l	JEP	1			1%x1%x%	R101	K-Sid
IR.		LGR LGR5	İ	J6R	1		1	1½x1½x½ 1½x1.385x¼	R101 R101*	K-Sid
B		L6B		}	1	ì	}	1½x1½x½	R102	O-Sid
		L6BP	1	J6BP			1	1%x1%x%	R102	O-Sid
BR		L6BR L6A	]	J6BR	1	Z6BR	1	1%x1%x% 1%x1%x%	R102 R102	O-Side
BA		Led				Z6D	1	1%x1%x%	R103	O-Side
	<del>                                     </del>	1.70	<del>                                     </del>	J7C	<del>                                     </del>	<del>                                     </del>	1	1%,=1%,=%,	R102	0-Sid
		L7C L7E					1	1%x1%x% 1%x1%x%	R102	0-Sid
7 7 <b>R</b>		L7 L7R		J7		1	1	1%,x1%,x%, 1%,x1%,x%	R102 R102	0-Sid
		L7R5	}	120			l	1%x1%x% 1%x1.4475x%	R102°	0.54
78 782		L7B L7BR	1	J7B	}	}	}	1%x1%x% 1%x1%x%	R102 R102	K-Sid
7 Å		L7A L7ATH		i		Z7ATH		1%,=1%,=36	R103	0.514
	1	1					1	1% to 1% taper x 1% x %	R103	0-814
	1	L7ATH10	1	1	1	Z7ATH10	1	1% to 1% taper x 1.5775 x %	R1031	0-814

Oversize Resenter Shank must be used. (\*) .006 oversize shank. (†) .010 oversize shank. (§) .015 oversize shank. (†) .020 oversize shank. (†) .030 oversize shank. (f) .045 oversize shank. Shanks are available for cutting .005, .016, .015, .020, .030, .045 oversize recess using standard cutters.

Cast	Iron	Lee-Al	loy	Chrom	alloy	Lee-L	ite			
Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Insert Ring Dimensions	Cutter No.	Shani Side
		L7ATH30						1% to 1% taper		1
	<u>}</u>	L7D	İ				ĺ	x 1.5975 x ¾ 1¾x1½x¾	R103+	O-Sid
	! <b></b> -	L7DU		J7DU			<u> </u>	134,x114,x34	R104	O-Si
		L7RH50	2.20	<u> </u>	}	Z7RH50	}	1%×1.429×1/4	Spec.	
		L7RH60	2.20	J7RH93	1	Z7RH60		1%x1.442x¼ 1%x1.473x¼	R102 R102†	0-Sid
		L8E		J8E				1½x1¾x½	R102	0-Sid
	!		1	J8ER8		Z8ER8		1¼x1.450x¼	Spec.	
8		L8T45		J8		<b>Z</b> 8	1	1½x1.4895x¾ 1½x1!;x½	R102	O-Sic
8R	!	L8R		J8R		Z8R	1	1½x1',x½	R102	K-Sie
			!	J8R10			i	1½x1.515x½	R1021	K-Sic
				J8K		1	[	134×17,2×17,2	R102	K-Sie
8 <b>B</b>	!	LABE LAB	!		}		1	11/4 x 11/4 x 1/4	R103 R103	0-Sid
BR		Labr	!	J8BR	İ		ł	1%x1%x% 1%x1%x%	R103	0-Sic
		LEBTH					ł	1¼ to l"staper	!	1
	•	LOPPUIA				ĺ	1	x 1% x 1%	R103	O-Sid
		L×BTH10	ł					1½ to 1% taper x 1.5775 x %	R1031	0-Sid
	-	LABTH20	•		<b>\</b>	}	\	1½ to 1"ataper	1	
8BT	!	LNBT	1			j		x 1.5875 x 1/4 1/4x1/4x44	R103‡ R103	0-Sid
8A		LBA	į	ĺ	ļ		J	1½x15,x75	R103	K-Sid
8AR		L8AR	: :	i e			1	11/4×15 ×1/4	R103	K-Sic
BAT		LSAT	1	JAAT	1	ZSAT	<u></u>	1¼x15,x5,	R103	K-Sid
			!	Jarns				1%2x1.510x1/4	R102*	K-Sid
i	[ {	LBRH10 LBRH15			İ	Z8RH10 Z8RH15	1	17,1x1.515x1/4 17,1x1.520x1/4	R1021 R1028	K-Sic K-Sic
	í !	L8RH30	İ		ł	1	1	1%x1.535x1/4	R102*	K-Sid
	i	L8ATH	ļ	J8ATH	İ	ZNATH	1	1% to 1% taper x 15 x %	R103	K-Sid
		L8ATH10	i			ZRATH10		1% to 1% taper	R1031	K-Sid
		L8ATH30						x 1.640 x % 1%; to 1%; taper x 1.660 x %	R103+	K-Sid
							<b>├</b>	<del></del>	<del> </del>	
		L9 L9+5	İ	J9	}	Z9		136x136x75 156x1.5725x2	R103 R103*	0-Sid
9+5		1	)	10.10	)	70.10	}	154×1.5755×%	R103*	0-Sid
		L9+10 L9+30	1	J9+10		Z9+10		15.x1.5775x1/2 15.x1.5975x1/2	R1031 R1031	0-8id
		LSATH	; !	J9ATH		ZSATH		1% to 13 taper x 1% x 1/4	R103	0-84
		L9ATH10	i			Z9ATH10	1	1% to 13, taper	1	1
		L9ATH30	i		1	Z9ATH30	1	x 1.5775 x ½ 1% to 1% taper	R1031	O-Sid
9R		L9R	ļ					x 1.5975 x 1/4	R103+	O-Sid
		L9R10	1	J9R10		Z9R10		15/4×15/4 15/4×1.57××3/4	R103 R1031	0-Sid
9B 9BR		L9B L9BR		J9BR		Z9BR		150x150x72 150x150x34	R103 R103	K-Sid K-Sid
		1	1		1	Z9BÛ	ŀ	14,x1;4x.395	R103	K-Sid
		ĺ	!	J9BTU27				15, to 17, taper x1.657x.395	Spec.	:
A		L9A					ĺ	1 4x 1 114x 732	R104	0-Sid
AR		L9AR	1	J9ATH28				15,x1%,x% 15,to1), taper	R104 Spec.	0.Sid
		LDD		Ì	1			x1.725x3, 1%,x13/x3/	R104	K-Sid
		LODT	Į.		1	Z9DT		15,x1%x5,	R104	K-Sid
			<u> </u>	J9DU30	ļ	ļ	ļ	1%x1.785x.395	R104+	K-Sid
	_	L9HU57				Z9HU57	1	174x1.625x1/	Spec.	w e:a
					<b></b>	Z9HU62	<b></b>	174x1.630x1/4	R103	K-Sid
		L9HT20						11/2×1.588×1/2	R103‡	O-Sid
		L9H23 L9H28					}	11%x1.590x1/4 11%x1.595x1/4	Spec. Spec.	
		L9BH L9BH5	1	J9BH		1		11%×1%×%	R103	K-Sid
		L9BH20			1	l		11%x1.635x% 11%x1.650x%	R103* R103‡	K-Sid K-Sid
		L9BSH	ļ	J9BSH	1	Z9BSH		11%tol1%taper		
		L9BSH5	1		1		]	x1%x% 1%tol%taper	R103	K-Sid
	ı	I	•		1	1		x1.635x%	R103*	K-Sid

Oversize Reseater Shank must be used. (\*) .005 oversize shank. (†) .010 oversize shank. (§) .015 oversize shank. (†) .020 oversize shank. (†) .030 oversize shank. (¶) .045 oversize shank. Shanks are available for cutting .005, .010, .015, .020, .030, .045 oversize recess using standard cutters.

Cast	Iron	Lee-Al	loy	Chroma	lloy	Lee-L	ite			
Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Insert Ring Dimensions	Cutter No.	Shank Bide
		L9BSH10				Z9BSH10		111/2tol11/2taper		
		L9BSH30						x1.640x%; 11%;to11%;taper	R1031	K-Side
втн	:	Lebth		J9BTH	1	<b>Z9BTH</b>		x1.660x35 135x154x36	R103† R103	K-Side K-Side
	!	L9BTH5			i			11/3,x1.635x%	R103*	K-Side
9BTH5	į	L9BTH10		J9BTH1●	1	Z9BTH10		11½x1.638x¾ 11½x1.640x¾	R103*	K-Side
		L9BTH30	l		<u> </u>			11½x1.660x¾	R103†	K-Side
10E	i	L10E		J10E				1%x1%x% 1%x1.5775x%	R103	O-Side
10C		1	]	J10E10	İ	710		1%x1%x%	R1031	O-Side K-Side
10		L10 L10+5		J10	ļ	Z10		1%x1%x% 1%x1.635x%	R103	K-Side
10+5	i	L10+10	ļ	J10+10		Z10+10		1% x1.638 x ½ 1% x1.640 x ½	R103*	K-Side K-Side
10+10	;	L10+20						13.x1.643x3. 13.x1.650x3.	R1031	K-Side
10 + 20 10 R	i	LIOR		Jior	l			1%x1.653x% 1%x1%x¼ 1%x1.640x¼	R103‡ R103	K-Side K-Side
	-	L10R10 L10R15		J10R10	1	Z10R10		13.x1.640x1/4 11/x1.645x1/4	R1031 R1035	K-Side
10R20	į	L10R20	1		1	Z10R20		13,x1.650x1/ 13,x1.653x1/	R103‡ R103‡	K-Side K-Side
11	1	L10R45	İ		1			13, x1.675 x 1/2, 13, x1 11/4 x 1/3;	R103° R104	K-Side
iiR	I	LIIR LIIR5		JiiR	1	ZIIR		13.x1'%x'/ 13.x1.6975x'/	R104 R104*	O-Side
11 <b>T</b>	!	LIIT		JIIT	1	Z11R10	l	1 1 x 1.7025 x 1/2	R1041 R104	O-Side
10 A	1	L10A		3171		Z11X30		1%x1%x% 1%x1.7224x%	R104+	O-Side K-Side
10 A R		L10AR		J10AR		Z10AR		134x134x75 134x134x34	R104	K-Side
	İ	LIOARS		J10AR10		Z10AR10		13.x1.760x1/4 13.x1.765x1/4	R104*	K-Side
10 A T	1	L10AR30 L10AT		J10AT	1	ZIOAT		17.x1.785x1/4 17.x11/4x1/4	R104+ R104	K-Side
10 A U	1	LIDAU		J10AT10 J10AU	1	Z10AT10 Z10AU		1 <sup>3</sup> 4x1.765x <sup>2</sup> 4 1 <sup>3</sup> 4x1 <sup>3</sup> 4x <sup>3</sup> 4 1 <sup>3</sup> 4x1.765x <sup>3</sup> 4	R1041 R104	K-Side
		LIOAUIO		JIOAX	<u> </u>	Z10AU10		1%x1%x%	R1041 R104	K-Side K-Side
11 A 11 A R	!	LIIA			}		İ	1½x1½,x½ 1½x1½,x½	R105 R105	O-Side
11AT 11AU	i	LIIAT	1		i	į	ŀ	1%x1%x% 1%x1%x%	R105 R105	O-Side
11 <b>D</b>		L11D		JIIDX	Ī			1½x1½x½ 1½x1½x¾	R105 R105	K-Side
		ļ		JIIXY	L		<u> </u>	1½ x2x½	R106	K-Side
	:			J11HTU33	}			11%,to1%taper x1.725x.382	- Spec.	
					<u> </u>	Z11DTH34		11%,x1.914x7%	Spec.	L
		L12J5						1%x1.635x1%	R103*	K-Side
		L12J15		J12JU15				1%x1.645x3% 1%x1.645x.397	R103§ R103§	K-Side
		L12CT45	ł	}				1%,x1.6785x%	R1031	K-Side
12CE		L12CE	l	J12CE J12CE10		Z12CE		1%,x1'%,x%, 1%,x1.7025x%	R104 R1041	O-Side
12C		L12C	Ī	J12C		Z12C		1%,x1'%,x%	R104	O-Side
		L12E	1	J12E J12E10		Z12E Z12E10	-	1%x1%x% 1%x1.765x%	R104 R104†	K-Side
12	ŀ	L12					1	1%x1%x%	R104	K-Side
12T 12U	ŀ	L12T	]	J12T		Z12T Z12U		1%x1%x% 1%x1%x%	R104 R104	K-Side
			1	V10F		Z12X33	}	1%x1.788x3%	Spec.	
12B 12BT		L12B L12BT		J12B			1	1%x1'%x% 1%x1'%x%	R105 R105	O-Side
		L12BU		1124				1¼,x1¼,x¾	R105	O-Side
12A		L12A L12AY		J12A				1%x1%x% 1%x1%x%	R105 R105	K-Side
1 <b>2</b> D		L12D	1	JI2DU		Z12DU		11/4×2×1/4	R106 R107	K-Side
	ļ;	Li2DU	<u> </u>	11200		21200	<del></del>	1¾,x2¾,x¾		<del> </del>
		L12CH20 L12CH30	!					1'%x1.7125x% 1'%x1.7225x'%	R104‡ R104†	O-Side
		B.201.00	į	J12BHU12		1	1	1'%;x1.829x'/4	Spec.	

Oversize Reseater Shank must be used. (\*) .005 oversize shank. (†) .010 oversize shank. (§) .015 oversize shank. (†) .020 oversize shank. (†) .030 oversize shank. (†) .045 oversize shank. Shanks are available for cutting .005, .010, .015, .020, .030, .045 oversize recess using standard cutters.

Cast I	İron	Lee-All	oy	Chroma	lloy	Lee-Li	te			
Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Insert Ring Dimensions	Cutter No.	Shank Side
13C 13 13T 13BT 13BU 13BX 13AT 13AU		L13CE  L13C  L13E  L13T  L13T5  L13T10  L13T20  L13BE  L13BE  L13BT  L13BU  L13BU  L13BU  L13BU  L13BU  L13BU  L13BU  L13BU  L13BU		J13CE J13CE10 J13CR7 J13C J13E J13 J13+10 J13T10 J13T10		Z13 Z13+10 Z13T Z13T10 Z13BU Z13BU10 Z13BX34		1½x1½x½, 1½x1.765x½, 1½x1.765x½, 1½x1.765x½, 1½x1½x½, 1½x1½x½, 1½x1½x½, 1½x1.8275x½, 1½x1.8275x½, 1½x1.8275x½, 1½x1.8275x½, 1½x1½x1½x½, 1½x1½x1½x½, 1½x1½x1½x½, 1½x1½x1½x½, 1½x1½x1½x½, 1½x1½x1½x½, 1½x1½x1½x1½x½, 1½x1½x1½x½, 1½x1½x1½x1½x½, 1½x1½x1½x1½x1½x1½x1½x1½x1½x1½x1½x1½x1½x1	R104 R1041 R104 R105 R105 R1055 R1057 R1055 R1057 R105 R105 R105 R105 R105 R105 R105 R105	K-Sid K-Sid O-Sid O-Sid O-Sid O-Sid O-Sid K-Sid K-Sid K-Sid K-Sid K-Sid K-Sid K-Sid K-Sid
14C 14T 15 14A		L14CE L14C L14J30 L14CT30 L14CY57 L14E L14 L14T L15T L15T L15A		J14CT30 J14CT30 J14CT40 J14CY57		Z14J45 Z14CT30 Z14CY57 Z14CY62 Z14 Z14X34		1%,x1'%,x2'\ 1%,x1'%,x'\ 1%,x1.847x\ 1%,x1.847x\ 1%,x1.847x\ 1%,x1.847x\ 1%,x1.847x\ 1%x1.857x\ 1%x1.875x\ 1%x1.875x\ 1%x1.7x\ 1%	R105 R105+ R105+ R105+ R105 R105 Spec. R105 R105 R106 R106 R106 R106	O-Sid O-Sid O-Sid O-Sid Spec K-Sid K-Sid K-Sid O-Sid O-Sid O-Sid
14BTH		L14H L14H5 L14H10 L14H20		J14H J14H10 J14BTH30		Z14H Z14H10		1"2x17;x1/ 1"3x1.885x1/ 1"3x1.890x1/ 1"3x1.900x1/ 1"3t1900x1/ 1"2t01" htaper x2x1/ 1"3t01" htaper x2.035x1/	R105 R105* R105† R105‡ R106	K-Sid K-Sid K-Sid K-Sid
16B		L16E L16BE L16B L16BX		J16E J16B J16BY57 J16CE		Z16BU57 Z16BU62 Z16BY57 Z16BY62		15/x1 <sup>10</sup> /x <sup>2</sup> /y 15/x1 <sup>2</sup> /x <sup>2</sup> /y 15/x1 <sup>2</sup> /x <sup>2</sup> /y 15/x1 <sup>2</sup> /x <sup>2</sup> /y 15/x1 <sup>2</sup> /x <sup>2</sup> /y 15/x1.9425x <sup>2</sup> /y 15/x1.9425x <sup>2</sup> /y 15/x1.945x <sup>2</sup> /y 15/x1 <sup>13</sup> /x <sup>2</sup> /y 15/x1 <sup>13</sup> /x <sup>2</sup> /y 15/x1 <sup>13</sup> /x <sup>2</sup> /y	R105 R105 R105 R105 Spec. R106 Spec. R106 R106	O-Sid K-Sid K-Sid K-Sid O-Sid O-Sid
16C 16		L16C L16CU L16CX L16 L16J		J16BTH 10  J16  J16  J16J10 J16K 20		Z16 Z16+10 Z16J Z16K Z16K Z16K10		1° 401° 414 per x1° 414 per x1° 419 1° 414 per x1.9525 x½ 1° 41° 41° 42° 45° 1° 41° 42° 45° 1° 42° 45° 41° 41° 41° 41° 41° 41° 41° 41° 41° 41	R106 R106 R106 R106 R106 R106 R106† R106† R1064 R1064 R1066	O-Side O-Side O-Side O-Side K-Side K-Side K-Side K-Side K-Side K-Side K-Side
16D 16A		L16X L16D L16A L16AY		J16AY		Z16X10		1½x2x4, 1½x2.016x=4, 1½x2½x%; 1½x2½x%; 1½x2½x%;	R106 R1061 R107 R107 R108	K-Sid K-Sid O-Sid K-Sid K-Sid
	<u> </u>	L16H10		J16H20		Z16H10		17%x1.953x1%; 17%x1.963x1%;	R106†	O-Sid
	<del> </del>	L16DJ15		J16DJ20		Z16DJ15 Z16DJ20		1%x2.083x% 1%x2.088x%	R107\$ R107\$	O-Side

Oversize Reseater Shank must be used. (\*) .005 oversize shank. (†) .010 oversize shank. (§) .015 oversize shank. (†) .020 oversize shank. (†) .030 oversize shank. (†) .045 oversize shank. Shanks are available for cutting .005, .010, .015, .020, .030, .045 oversize recess using standard cutters.

Cast	Iron	Lee-Al	loy	Chroma	lloy	Lee-Li	ite			
Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Insert Ring Dimensions	Cutter No.	Shank Side
17E 17C	1	L17C				Z17C		11%,x1%x%; 11%,x11%,x%;	R105 R106	K-Side O-Side
17D		L17D		J17CR9		1	Ĭ	1'%x1.952x'%	Spec. R106	K-Side
17 <b>T</b> 5	1	Litts		J17TA J17T20		Z17T8		11%x2.013x1% 11%x2.025x1%	R106*	K-Side K-Side
17		L17	1	J17K16 J17	1	1	6	11%.x2.021x.345	Spec. R107	O-Side
	1		l	J17+16 J17+30	1	Z17+16	{	111/4×21/4×1/2 111/4×2.085×1/4 111/4×2.099×1/4	Spec. R107†	0-Side
	1			JI7DTH	1		[	111/4to111/4taper 21/4x.300	R107	0-Side
17B	}	L17B L17BX			1	7.755		1"4x214x32 1"4x214x34	R107 R107	K-Side K-Side
17A	ł	l				Z17BX33	<u> </u>	11114 x 2.164 x 2/4 11114 x 23/4 x 3/2	Spec. R108	O-Side
				J17H				1 <sup>71</sup> 37×2×.345	R106	K-Side
18C	f	LISE LISC	[	JIRE	1		Ī	134×2×32 134×2×32	R106 R106	K-Side K-Side
	ł			J18CT J18CT10	1		•	1 <sup>3</sup> 4×2× <sup>5</sup> 16 1 <sup>3</sup> 4×2.015× <sup>5</sup> 16	R106 R106	K-Side K-Side
	Ì	LISCN	)	J18CR19	1			134x2x24 134x2.024x24	R106 Spec.	K-Side
18D	1	LISD				Z18R Z18R10	ļ	13, x21, x3, 13, x21, x1,	R107 R107 R1071	O-Side K-Side K-Side
18		L18	1		1	ZISKIU	1	1 <sup>3</sup> 4x2.110x <sup>3</sup> 4 1 <sup>3</sup> 4x2 <sup>3</sup> 4x <sup>3</sup> 5 1 <sup>3</sup> 4x2.110x <sup>3</sup> 5	R107	K-Side K-Side
18U	ļ	L18+10 L18U		Jist		Z18U Z18U10	1	134×214×34 134×2.140×34	R107 R1071	K-Side K-Side
18 <b>B</b>	1	LISB			}	Z18X33		1 <sup>3</sup> 4x2.164x <sup>39</sup> 4	Spec. R108	O-Side
18BX		LisBX	1 1			Z18BX Z18BX10		1 <sup>3</sup> 4×2 <sup>3</sup> 4× <sup>7</sup> 6 1 <sup>3</sup> 4×2.2025× <sup>7</sup> 6	R108 R1081	O-Side O-Side
18A	ļ	LISA	-		<u> </u>	74.33.44	<del></del>	134×214×32	R108	K-Side
		<del> </del> -		J18HT53	<del> </del>	Z18DJ15		1 <sup>25</sup> <sub>32</sub> x I.995x.300	R107§	O-Side
19E	1	<u> </u>	•	J19E	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	111 x2x7,	R106	K-Side
19C		L19D L19C		J19C	1		ĺ	111/4 x 21/4 x 4/2 111/4 x 21/4 x 4/4	R107 R107	O-Side K-Side
		L19C+10		J19R				1 <sup>13</sup> 16 x 2.140 x ½ 1 <sup>13</sup> 16 x 2 <sup>3</sup> 16 x ½	R1071 R108 R108	K-Side O-Side O-Side
19 19 Y		L19			ļ	Z19Y Z19Y10	ļ	1 <sup>13</sup> <sub>16</sub> x2 <sup>1</sup> <sub>16</sub> x <sup>4</sup> <sub>32</sub> 1 <sup>13</sup> <sub>16</sub> x2 <sup>3</sup> <sub>16</sub> x <sup>1</sup> <sub>2</sub> 1 <sup>13</sup> <sub>16</sub> x2.2025x <sup>1</sup> <sub>2</sub>	R108 R1081	O-Side O-Side
19B	İ			J19BX		ZISTI		1 <sup>13</sup> <sub>14</sub> x2 <sup>1</sup> <sub>4</sub> x <sup>9</sup> <sub>32</sub> 1 <sup>13</sup> <sub>16</sub> x2 <sup>1</sup> <sub>4</sub> x <sup>7</sup> <sub>16</sub>	R108 R108	K-Side K-Side
19 A 19 F	ł		1	31313.4		//////		113,4 x 23,4 x 5,2 113,4 x 23,4 x 5,2	R109 R109	O-Side K-Side
	<del>                                     </del>	<del> </del>	1	J19T28	<del>                                     </del>			12732 x 2.220 x 316	Spec.	
20B				J20B				1 <sup>7</sup> a x2 <sup>1</sup> a x <sup>1</sup> a 1 <sup>7</sup> a x2 <sup>3</sup> ta x <sup>4</sup> 32	R107 R108	K-Side O-Side
201) 20		1.20 1.201			İ	Z20U		17 a x 27 a x 7 37 17 a x 27 a x 7 37 17 a x 27 a x 3 a	R108 R108	K-Side K-Side
<b>20</b> C	l		1			Z20 L 10		1 2 x 2.265 x 1 1 2 x 25 x 25 x 25 x 25 x 25 x 25	R1081 R109	K-Side O-Side
20 A	1	L20CX	]		1			1%x25,x5,	R109 R109	O-Side K-Side
20E	ł	]	1 1	J20FY10	ł	Z20FY10		1½ x2½ x½ 1½ x2.5785x½	R110 R1111	K-Side O-Side
	<b>†</b>		<b>†</b> – –	J21E14	<u>                                     </u>		-	1'\4x2.206x'\4	Spec. R108	K-Side
21 DR 21 D				J21DR			ļ	11%,x2%,x%, 11%,x2%,x%,	R108 R109	K-Side K-Side O-Side
21 21B 21 A		L21 L21B			Ì			1 154x254x35 1 154x274x35 1 154x274x35	R109 R110	K-Side O-Side
21Ĉ	<u> </u>		L		<u> </u>		ļ	11%x21,x%	R110	K-Side
22E	1	L22E		J22ETH	ĺ	]		2x2½x½ 2 to 2½ taper x 2½ x ½	R108	K-Side
				J22ETH15	1			2 to 2½ taper	R108	K-Side
22D		L22D						x 2.301 x ¼ 2x2¼x%;	R108 R109	K-Side O-Side
22R 22		L22			1	<b>!</b>	]	2x2½x½ 2x2½x½;	R109 R109	K-Side K-Side K-Side
22U 22B		L22U L22B			l	[		2x2½x¾ 2x2½x¾;	R109 R110 R116	0.Side K.Side
22 A		L22A L22AY L22AY10		J22AY		Z22AY Z22AY10	[	2x2\\x\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	R110 R110 R1101	K-Side K-Side
22C	1	LAZATIO	1		L	2007110	<u>L</u>	2x2%x%	Rill	O Side

Oversize Reseater Shank must be used. (\*) .005 oversize shank. (†) .010 oversize shank. (§) .015 oversize shank. (†) .020 oversize shank. (†) .030 oversize shank. (†) .045 oversize shank. Shanks are available for cutting .005, .016, .015, .020, .030, .045 oversize recess using standard cutters.

Cast	Iron	Lee-A	lloy	Chron	nalloy	Lee-I	ite			
Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Ring No.	Price Each	Insert Ring Dimensions	Cutter No.	Shank Side
						Z22 AZH Z22 AZH 30		214x21/x14 214x2.535x14	R110 R110†	K-Side K-Side
23B 23 24R		L23 L24R		J23				2%4x2%x%4 2%4x2%xx4 2%4x2%x%	R109 R110 R110	K-Sid O-Sid K-Sid
24 23 A		L24 L24Y						2½x2½x¾ 2½x2½x½ 2½x2½x¾	R110 R110 R111	K-Sid K-Sid O-Sid
24 A 		L24AU		J24XY				214,x214,x14 214,x214,x14 214,x214,x14	R111 R113 R113	K-Sid O-Sid O-Sid
		L25EY\$7						2½ to 2½ taper x 2.4185 x %	Spec.	
25C 25 25B 25 A		L25C L25 L25B	  -  -	J25CK J25		<b>Z25</b>	  -  -	2½x2½x¾ 2½x2½x½ 2½x2½x¾ 2½x2½x¾ 2½x2½x¾ 2½x2½x¾	R110 R110 R111 R111 R112	K-Side K-Side O-Side K-Side O-Side
		L26CU		J26E2			;	2%,x2½x%, 2%,x2.569x¼	R110 Spec.	K-Sid
26 26 B 26 A		L26		72622			! ! !	2%,x2%,x%, 2%,x2%,x%, 2%,x2%,x%, 2%,x2%,x%,	R111 R112 R112	K-Side O-Side K-Side
27C 27 27B		L27C L27 L27BY	•	J27BY		Z27BY	1	2½x2½x¾ 2½x2½x¾ 2½x2½x¾	R111 R112 R112	K-Side O-Side K-Side K-Side
27 A 27D		L27E		321B1		Z27BY10	; ; !	2½x2½x½ 2½x2.765x½ 2½x2½x¾ 2½x2½x¾ 2½x3x¾	R112 R1121 R113 R113 R114	K-Sid O-Sid K-Sid K-Sid
·		L27EY6				E27E10		2½ x3.017x½  2½102½taper	R1141	K-Side
		7.00						x2.5745x%	Spec.	V 0:1
18 19 18 A 19 A		L28 L28A					:	2%,x2%,x%, 2%,x2%,x%, 2%,x2%,x%, 2%,x2%,x%,	R112 R113 R113 R114	K-Side O-Side K-Side O-Side
10 10 A		L30 L30A						2½ x2½ x½ 2½ x3x½	R113 R114	K-Side K-Side
<b>₩</b> D								2%,x3%,x¾	R115	K-Sid
BIC BI BIA		L81B L81A	·	J81AU J31AY		Z31A Z31A10		2½x2½x½ 2½x3x½ 2½x3½x¾ 2½x3½x¾ 2½x3.140x½ 2½x3½x½ 2½x3½x½	R113 R114 R115 R115 R115† R115 R118	K-Side K-Side O-Side K-Side K-Side K-Side
12 13C		L12CZ L32CZ10						2%x3%x% 2%x3%x% 2%x3%x% 2%x3.1025x%	R115 R116 R116 R116	K-Side O-Side O-Side
BA		L32CZ29						2%x3.2125x% 2%x3½x%	R116‡ R116	O-Side K-Side
13		L33BX	1	,		Z33BX Z33BX 10		2½x3½x½ 2½x3½x¼ 2½x3.3275x¼ 2½x3½x½	R116 R117 R117† R117	K-Side O-Side O-Side K-Side
4							- <del>-</del>	2%x3%x%	R117	K-Side
4A 5								2½13½1½ 313½1½	R118 R118	K-Side K-Side
5A		 		J35AY			i	3x3%x% 3x3%x%	R119 R120	K-Side K-Side
4								3%x3%x%	R120	K-Side

Oversize Reseater Shank must be used. (\*) .005 eversize shank. (†) .016 oversize shank. (§) .015 oversize shank. (†) .020 eversize shank. (†) .030 eversize shank. (†) .045 oversize shank. Shanks are available for cutting .005, .016, .015, .020, .030, .045 oversize recess using standard cutters.



## REPLACEABLE VALVE GUIDES

Popularit Rating	Part No.	I.D.	0.D.	C Leth.	Price	Popularity Rating	Part No.	LD.	B O.D.	C Lefth.	Price	Popularity Rating	Part No.	A I.D.	D.D.	C Leth	Price
26	G1240	.250	.439	2 %		1	G1345	.3435	.502	2 1/4		6	G1375	.3735	.502	2%	Т
32	GL1240	.250	.439	2 %		1	GL1345	.3435	.502	2 1/4		5	GL1375	.3735	.502	2 %	T
36	GL1275	.275	.498	2 %		3	G1340	.3435	.502	2%		16	G1370	.3745	.502	2 %	1
25	GL1276	.2756	.397	11%		2	GL1340	3435	.502	2%	1	26	GL1370	.3745	502	2 %	1
9	G1310	.3115	.439	1%	<u> </u>	7	G1342	.3435	.502	2 %	1	14	G1376	3745	.502	2 %	1
9	GL1310	.3115	.439	1%	<del>  -                                    </del>	6	GL1342	3435	.502	2 %	<del>                                     </del>	12	GL1376	.3745	.502	2%	
43	GL1313	3115	.439	2 %	<del>                                     </del>	4	G1343	3435	502	2 %	<del>  -</del>	21	G1381	.3745	502	2 %	1
13	G1311	.3115	.439	2 %	<u> </u>	8	GL1343	.3435	.502	2 %	†  –	17	G1371	.3745	.502	2%	1
13	GL1311	3115	439	2 1/2	<del>                                     </del>	2	G1344	.3435	.502	2%	<u>†</u> —	17	GL1371	.3745	.502	2%	
	G1309	3115	.439	2 %	<del> </del>	3	GL1344	.3435	.502	2%	† · <del>-</del>	12	G1377	.3745	.502	2%	
- <del>33</del>	GL 1312	315	.439	2 1/2	<del> </del>	27	GL1346	.3435	.518	2 K	<u> </u>	14	GL1377	.3745	.502	2 %	
10	GL1312	315	.476	2 %	<del>                                     </del>	20	GL1348	.345	.502	2 %	1	24	G1372	.3745	.6263	2 %	I
			.477	2%	<del> </del>	27	G1341	.3436	.6578	2 %		30	GL1372	.3745	.6263	2 %	1
28	G1318	.315	+	<u> </u>	<del>-</del>	29	GL1341	.3436	.6578	2 %	1	29	C1390	3973	.6578	2%	I
28_	GL1318	.315	.477	2 X4		10	C1369	.372	.502	2 %	1	34	GL1390	.3973	.6578	2%	I
35_	GL1319	.315	.486	2 %	<b>├</b>	15	GL1378	.373	.625	2 %	1 -	20	G1431	.437	.6265	2 1/2	
_ 25_	C1316	.3115	.502	1%	<u> </u>	16	GL1379	.373	.620	21%	1	22	GL1431	437	.6265	2%	T
23	G1317	3125	.502	11%	L	8	G1373	.3735	.502	2 %	1	19	G1430	.437	.6265	2 %	
18	GL1347	.3427	.502	3 %		7	GL1373	.3735	.502	2 %	1 -	19	GL1430	.437	.6265	2 %	I
71	C1339	.343	.502	2 %		5	G1374	.3735	.502	2 1/4	1	- 11	GL1432	.437	.6265	3 %	
24	CL1349	343	.565	2 %	T .	4	GL1374	.3735	.502	2 %	1	18	G1433	.437	.6265	3	
31	GL1350	.343	.565	3%		15	G1380	.3735	.502	2 %	T -	21	GL1435	.4385	.6895	3 %	

### **VALVE GUIDE APPLICATION DATA**

THE VALVE GUIDES LISTED ARE GL LEE-ALLOY SERIES MADE OF A DENSE LONGER WEARING ALLOY METAL. MOST OF THESE SIZES ARE ALSO AVAILABLE IN CAST IRON G SERIES.

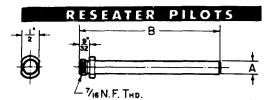
Tear	Model	Valve Intake	Guides Exhaust	Roughing Reamer	Finishing Reamer	Pilot Size	Pilot No.	Guide	Valve Guide Reamer
		BUICE	K						
1954-66	All Models Except Special and 300 Engine	GL1372	GL1372	Not Req.	Not Req.	ж	Not Req.	G2376	H1375
1965-67	300, 340 Engines	GL1345	GL1342	H84941%	H7500	%	P84L	G2343	H1343
1968-75	250 Engine	G1339	GL1345	H84941%	H7500	74	784L	G2343	H1343
1 <b>9</b> 71-75	350 Engine	GL1376	GL1376	H8494%	H7500	×	P85L	G2375	H1375
197.1-75	455 Engine	GL1376	GL1371	H <b>8494</b> %	H7500	*	P85L	G2375	H1375
1974-75	231 Engine	GL1342	GL1342	H8494%	H7500	11/4	P84L	G2343	H1343
1975	260 V-8 Engine	GL1348	GL1348	H8494%	H7500	7≰	P84L	G2343	H1343
	BRIGGS AND ST	RATT	ON AI	ND CL	NTON				
1954-62	All Models %" Stem No Factory Guide	GL1240	GL1240	H8432%	H7437	%	P95L	C2250	H1250
	CH	IEVRO	LET						
1941-6	216. 235 Six-Cylinder	GL1350	GL1349	Not Req.	Not Req.	74	Not Req.	G2343	H1343
1955-70	153, 194, 230, 250, 265, 283, 307, 327 Engines	GL1345	GL1340	H84941%	H7500	7≰	PS4L	G2343	H1343
1958-62	All 348, 409 Engines	CL1376	C1380	H <b>8494</b> %	H7500	×	P85L	G2375	H1375
1960-63	Corvair (Replaceable Guides)	GL1346	GL1346	Not Req.	Not Reg.	14	Not Req.	G2343	H1343
1962-75	Chevy II, 230, 250, 292, 307, 350, 400	C1339	GL1345	H8494%	H7500	1/4	P84L	G2343	H1343
1971-75	307, 350	GL1345	GL1345	H8494%	H7500	1/4	PS4L	G2343	H1343
1965-71	396, 427 with Replaceable Guides	GL1378	GL1379	Not Req.	Not Req.	*	Not Req.	G2375	H1373
1966-75	366, 427 without Guides	GL1374	GL1375	H <b>8494</b> %	H7500	*	P85L	G2375	H137:
1965-71	396, 427 with Aleminum Head	GL1378	GL1378	Not Req.	Not Req.	*	Not Req.	G2375	H1373
1971-75	350 with %" Exhaust	GL1345	GL1370	H <b>8494</b> %	H7500	*	P85L	G2375	H137:
1970-75	454 Engine	GL1374	G1380	H <b>8494</b> %	H7500	*	P85L	G2375	H137
	CHRYSLER CO	RPOR	ATION	I ENG	INES				
1954-56	260, 270, 315, 325 Engines	CL1370			H7500	*	P85L	G2375	H137
1956-67	277, 301, 318, 326 Engines	GL1371	GL1376	H8494%	H7500	*	P85L	G2375	H137:
1958-73	331, 350, 354, 361, 383, 413 Engines (D500-354								
	Takes GL1377), 440	GL1376	CL1376	H8494%	H7500	*	P85L	G2375	H1375
1954-58	325 Engine (D500)	GL1371	GL1371	H8494%	H7500	*	P85L	G2375	H137:
1960-75	Validat and Lancer, 170, 225	C1381	C1381	H8494%	H7500	×	PBSL	C2375	H137
1964-69	426 Englet	G1309	GL1313	H8432%	H7437	ж.	P83L	G2312	
1961-75	HT413 Industrial with Replaceable Guides		GL1435	Not Res.	Not Reg.	X.	Not Reg.	C2437	

NOTE: H310C½ Round Drive and H310B% Reaming Bushing are used with Roughing and Finishing Reamers. We recommend a ½" drill for power, as a power unit with about 400 R.P.M. is required. Roughing Reamer operation is followed with a Finishing Reamer. After Guide has been installed, our H1000 Series Solid Reamers as listed in extreme right column above, may be used to ream I.D. of Guide.

THE VALVE GUIDE APPLICATION DATA (Cont.)
THE VALVE GUIDES LISTED ARE
GL LEE-ALLOY SERIES MADE OF A DENSE LONGER WEARING ALLOY
METAL. MOST OF THESE SIZES ARE ALSO AVAILABLE IN CAST IRON C SERIES.

Year	Model		Guides Exhaust	Roughing Reamer	Finishing Reamer	Pilot Size	Pilot No.	Valve Guide Driver	Valve Guide Reame
	FORD CO	MPAN	Y EN	GINES					-
954-62	6 Cyl. Pass. and Trucks; 223 Eng.; and 279 V8 Truck	GL1342	GL1342	H8494%	H7500	11,56	P84L	C2343	H134
954-55	V8 Passenger and Trucks: 239, 256 Engines	GL1340	GL1343	H8494"5	H7500	11/4	P84L	G2343	H134
955-59	V8 Passenger and Trucks, 272, 292, 312 Engines	GL1340	_		H7500	11/42	P84L	G2343	H134
960-62	V8 Passenger and Trucks; 272, 292, 312 Engines		GL1343	H8494'%	H7500	11/4	P84L	G2343	
957-73	332, 352, 360, 390, 406, 410, 427, 428 Engines	G1369	GL1374	H8494%	H7500	*	P85L	G2375	_
958-67	383, 430, 462 Engines		GL1373	H84941	H7500	*	P85L	G2375	
960-75	All Models; 144, 170, 200, 250 Engines	GL1310		H8432%	H7437	ж,	P83L	G2312	
965-67	330EFU, 330CID M.D., 330CID H.D.		GL1374		H7500	14	P85L		H137
956-57	H. D. Truck with Sodium Valves; 272, 292 Engines		GL1374	H8494'%	H7500	11/2	P84L	G2343	H134
770-71	EXHAUST	GLIJYJ	OLITSI	H8619%	H7625	χ,	P86	G2437	_
956-57		CI 1340	GL1431		H7500	11/2	P84L	G2343	
	H. D. Truck; 302, 332 Engines	GL1374			H7500	3/4	P85L	G2375	
958-67	H. D. Truck; 302, EFV330, 332, 361, 391 Engines	GE13/4	GL1431	H84941			P86	G2437	
NEA 27	EXHAUST	CI 1430	C1 1433	H8619%	H7625	X, .	P86		
958-67	H. D. Truck; 401, 477, 534 Engines	GL 1430	_		H7625	<b>%</b>		GZ437	
964-75	Passenger & Truck; 240, 300, 302, 289, 351 Engs	G1339	GL1345	H84941%	H7500	11/6	P84L	G2343	
962-64	221, 260	GL1313		H8432%	H7437	Ж,	P83L	G2312	
<b>369</b> -75	400, 429, 460 CID	GL1340			H7500	76	P84L	G2343	
970-75	351 Windsor 2V	GL1345	GL1345	H8494'%	H7500	<b>%</b>	P84L	G2343	
970-75	351 Cleveland	GL1340	GL1340	H8494'\%	H7500	%	P84L	G2343	
970-75	351 CID 4V	GL1340	GL1345	H8494'%	H7500	74	P84L	G2343	
70-73	429 Boss	GL1374	GL1374	H <b>8494</b> %	H7500	×	P85L	G2375	H137
	CH	IC TO	ICKE						
		IC TRI		Mar Bar	M D	Int. 156	Not Req.	G2344	H13
755-59	324, 370 Engines	GLISTI	GL1390	Not Reg.	Mot Ked.	Exh397	Not Req.	G2397	H13
755-60	All V8 with 288, 316, 347 Engines	GL1344	GL1342	H84941%	H7500	11/45	P84L	G2343	H134
257-59	All V8 with 336 Engine	GL1340	_	H84941%	H7500	11/4	P84L	G2343	
960-7	All V6 with 305 Engine	GL1344			H7500	11/4	P84L	G2343	H13
260-71	All V6 with 351, 401, 702 Engines		GL1432		H7500	*	P85L	G2375	
<b>~</b> -7.	EXHAUST	OL 1311	VI	H8619%	H7625	Х.	P86	G2437	
963-71	153, 194, 230, 250, 292	CI 1245	GL1345		H7500	76	P84L	G2343	
973-74	379, 432 and 478M		GL1432	·	H7500	*	P85L	G2375	
713-14	EXHAUST	OLISA	021132	H8619%	H7625	х,	P86	G2437	
				11.00 17.4					••••
W4 /1	All Models (with Replaceable Guides)	.DSMO	GL1390	Not Reg.	Nat Ras	int. ¾	Not Req.	G2344	H13
754-63		OLISTI	051330	HOI Key.		Exh397	Not Req.	G2397	
X64-67	225 Engine	GL1340	GL1340	H8494%	H7500	'%	P84L	G2343	_
968-71	250 Engine	C1339	C1339	H8494%	H7500	%	P84L	G2343	H13
965-75	260, 330, 350, 440, 425, 455, 455 Irrig	GL1348	GL1348	H <b>8494</b> 1%	H7500	"‱	P84L	G2343	
	!	PONTI	AC						
755-60	All V8's		GL1344	H8494'%	H7500	11/4	PB4L	G2343	H13
261-63	All V8's and 4 Cylinder Tempest	GL1345	GL1340	H8494%	H7500	74	P84L	G2343	H13
963-66	421 H. O. Engine, 389		GL1345	H84947%	H7500	%	PS4L	G2343	H13
966-67	230 Engine		GL1340		H7500	13/4	PB4L	G2343	H13
966-75	326, 400 Engines	GL1345			H7500	1/4	PB4L	G2343	H13
770-75	455 Engine		GL1348		H7500	134	P84L	G2343	H13
		RAMBI	ER						
59-75	Aluminum OHV, 6 Cylinder			H84941%	H7500	1%	PS4L	G2343	H13
		LKSW	AGEN						
<b>753-60</b>	All Models, 36 H.P. (Replaceable Guides)	GL 1276	GL1276	Not Res	Not Rea	. 7MM	Not Res.	G2275	H12
60-73	All Models, 40 H.P. (Replaceable Guides)	GL 1315	CL 1315	Not Rea	Not Rea	EMM	Not Res.	G2312	H13
	Oversiza Guides G1318, GL1318 and GL1319 a								
	W	AUKE	SHA						
	ICK Model		C1316	H8432%	H7437	К,	P83L	G2312	H13
	w	/ISCO	ISIN						
	ACN, BKN, VH4, VE4, VF4, TE, TF		GL1310	H8432%	H7437	К.	PE3L	G2312	H13
	AGN, AHH, VG4D		GL1311		H7437	Х,	PB3L	G231Z	
	VR4D, VO4, VR4		GL1377		H7500	×	PESL	G2375	
	YKIV, YYI, YKI	GL13//	OLIS//	net77%	H / 300	7	1076	ر ، بيب	••

NOTE: H310C½ Round Drive and H310B½ Reaming Bushing are used with Roughing and Finishing Reamers. We recommend a ½" drill for power, as a power unit with about 400 R.P.M. is required. Roughing Reamer operation is followed with a Finishing Reamer. After Guide has been installed, our H1000 Series Solid Reamers as listed in extreme right column above, may be used to ream I.D. of Guide.



	Size	Decimal Equiv.	Length "B"	Ī	Size "A"	Decimal Equiv.	Length "B"
R208M34	5,5MM	.2165	4	R213M12	10MM	.3937	4
R208M14	6 M M	.2362	4	R213M9	3,009	.3975	4
R208	14	.250	: 4	R213M2	₹2~.002	.40125	1 4
R208S	. 1/4	.250	23/4	R212P30	%+.030	.405	4
P208P6	6.5 M M	.2559	4	R213	134,	.40625	5
R209M5	. 7M.M	.2756	4	R213P10	+.010	.41625	5
R209	%2	.28125	4	R214M5	TIMM	.4325	5
R209S	. %	.28125	. 23/4	R214M2	×4002	.4355	5
R209F15	7.5 M.M	.2953	4	R214M1	%001	.4365	5 5 5 5
R210M2	×4002	.3105	4	R214	34.	.4375	. 5
R210M3	₹ <sub>4</sub> = .001	.3115	4	R214P1	%+.001	4385	5
R210	3/10	.3125	4	R214P2	%+.002	.4395	5
R210P1	%+.001	.3135	4	R214P15	7.+.015	.4525	6 5 5
R210P2	%±.002	.3145	4	R215	152	.46875	5
R210P3	*M M	.315	4	R215P3	12MM	.4724	5
R210P4	\$ <sub>6</sub> +.004	.3165	4	R216M2	,002	.498	5
R210P15	5.+.015	.3275	. 4	R216M1	7	.199	5
R2101'30	₹ <sub>4</sub> +.030	.342	4	R216	1 2	.500	5
R211M9	8,5 M.M	.3347	4	R216P1	,+.001	.501	1 5
R211M3	%. — .003	.34075	4	R216P2	2+.002	.502	: 5
R211M2	"27002	,34175	4	R217M1	$^{17}5_2001$	.53025	5
R211M1	100.	.34273	4	R217	1732	.53125	5 5 5 5 5
R211	11/29	.34375	. 4	R217P1	22+.001	.53225	j 5
R211P1	100.	.34475	4	R218	**************************************	.5625	
R211P2	1/2+.002	.34575	. 4	R218P1	+.001	.5635	5
R211F3	9-2+.003	.317	4 .	R238P2	+.902	.5645	5
R211P10	9 M M	.3543	4	R219	1733	.59375	5
R211P15	"n+.015	.3577	4	R220	5	.6250	5
R211P30	1127+.030	.372	4	R220P1	4+.001	626	5
R212M2		.373	4	R222	13.	6H75	5
R212M1	9.5M M	.3740	. 4	R2221'1	1001	.6HH3	5
R212	J.,	.3750	4	R222P2	11,4+.002	6H95	5
R212P1	34+.001	.376	4	R224	3.4	.7500	5
R212P2	+.002	.377	4	R226	1 13/6	.h125	5
R212P5	+ 005	.380	4	R227P6	17 <sub>37</sub> +.006	.850	21
R212P15	³, ÷.015	.3900	4	R233	1,35	1.03125	2%

## VALVE SEAT GRINDING WHEELS

GENERAL PURPOSE	FINISHING WHEELS	ROUCHING	A-DIAM.	CENERAL	FINISHING	ROUGHING	A-DIAM.
P224	P224F	P224R	7 • " 15 • "	P238	P236F	P238R	P%"
P225	P225F	P225R	154"	P239	P239F	P239R	1 %"
P226	P226F	P226R	1 "	P240	P240F	P240R	136"
P227	P227F	P227R	1 %"	P241	P241F	P241R	1 %"
P228	P228F	P228R	1 14"	P242	P242F	P242R	<b>ነ</b> ነጻ."
P229	P229F	P229R	1 %"	P243	P243F	P243R	2 "
P231	P231F	P231R	14"	P245	P245F	P245R	2 %"
P232	P232F	P232R	1 %"	P247	P247F	P247R	2 14"
P233	P233F	P233R	134"	P251	P251F	P251R	2 '4"
P234	P234F	P234R	1 %"	P255	P255F	P255R	2 ¾"
P235	P235F	P235R	1 '5"	P259	P259F	P259R	3 "
P236	P236F	P236R	1 %"	P261	P261F	P261R	3 ¼"
P237	P237F	P237R	1 '4"	P263	P263F	P263R	3 ';"

	(	GRINDI	NG WHEE	LS FOR	STELLITI	Ε	
No.	A-Diam.	No.	A-Diam.	No.	A-Diam.	No.	A-Diam
P2315	1.37	P237S	15."	P243S	2 "	P2515	2!;"
P2335	134"	P239\$	1.34"	P245S	2 'í"	P255S	2 34"
P235S	1 '2"	P241S	1 70"	P247S	2 14"	P259S	3 "

Wheel shave ""-16thd. All other Wheels have "-"-16thd.

Wheels with  $^{n_{36}\prime\prime}$  S.A.E. threads can be used on  $^{3_{36}\prime\prime}$  threaded end

wheels wirn a S.A.E. threads can be used on a intreaded end string to the string of th

#### GENERAL PURPOSE

# Grinding Wheels WHEELS HAVE 13/16"—13 THREAD No. A.Dian

No A-Diar	n. No. A-Diam.	No. A-Diam.	No.	A-Diam
P236K 1 %"	P241K 1 %"	P247K 2 14"	P259K	3 "
P237K 1 14"	P243K 2 "	P251K 2 1/2"	P261K	3 14"
P239K 134"	P245K 2 %"	P255K 2 ¾"	P263K	3 1/2"

#### RESEATER CUTTERS

Recesses are accurately cut with cutters. There are no adjustments to be made; simply insert cutter in Reseater Shank, press firmly against shoulder of the cutter and lock with set screw. Each cutter is made to accommodate two

Cutter Ring Diamete		iameters	Cutter	Ring D	iameters	Cutter	Ring D	ameters
No.	O-side	K-side	No.	O-side	K-side	No.	O-side	K-side
*R98	. 'K"	1 "	R106	1'%"	2 "	R114	21%"	3 "
° k99	1 1%"	1%"	R107	2 X"	214"	R115	3 %"	3%"
R100	187	14"	R108	2 %"	214"	R116	3 %"	3¼"
R101	. 1 %"	1%"	R109	2 %"	2%"	R117	3%"	3%"
R102	1%"	1%"	R110	2 %"	21/1"	R118	3 %"	31/1"
R103	. 1%"	136"	R111	2 %"	2%"	R119	3 %/"	3%"
R104	196"	1%"	R112	2º¼"	2%"	R120	3'K/"	3%"
-105	B 19.77			2011/11	37///			

R105... 1%" 1%" R112... 2%" 2%" R120... 3%" 3%" 3%" 8788 and R99 cutters are now obsolete. The R712 special reseater shank and special cutters R730, R732, R734, R736 are used to cut the recesses formerly cut with the R98 and R99 cutters.

#### SELF EXPANDING PILOTS

		-8-4	c	TE	— F ———	+	
	<b>(3)</b>					<u> </u>	
				<b>┼</b> ┈Ӻ─		₹ 🏵	
		EXPANSION	STREET PARK		-	1	
Part No.	P	let Size	A	C	D	B	7
P958		1/4	47/2	₹6	1/6		3
95		74	511/2	1 1/2	74		3
PSL		1/4	811/2	1 1/4	1/4		4
P948		<u>%</u>	411/2	1 %	1 %		1
<b>'96</b>		<b>%</b>	511/22	1 1/2	1/4		
P96L	4—	<u>%</u>	81/4	1 %	*		4
P838	-	<u>*</u>	4 %, 5 ¼	1 %	* * * * * * * * * * * * * * * * * * *		2
P83 P83R	+ .	%.	5 1/4	1 3/4			÷
P83RL		+.015 +.015	61/4	1 1 1/4	*	И	i
PSJL	74	¥,	6 1/4	134	1/4	1/4	- ;
P848		11/42	4 1/2	1 1/4	1/4	/2	3
P84	+	11/42	5 1/4	1 1 1/4	34		2
P84M	-	1/42	4 1/2	1%	1/4		15
P84L		11/42	6 1/4	1 %	1/4		8
984R	11/4	+.015	5 1/4	1 %	1/4		3
P84RL	1 %	+.015	61/4	1%	3/4		3
P85S	1	<b>%</b>	4 1/2	11/4	1/4		2
P85F		370	5 1/4	2	3/4		- 1
P85		%	5 3/4	2	34		8
P85R		+.015	5 ¾	2	1/4		3
285RL	3/6	+.015	7	2	3/4	%	3
95L		%	7	2	1/4	%	8
97R		397	5 %	1 1/4	1/4		- 8
97		13/2	6	2	1/4		3
97M	<del></del>	13/2	7 1/4	2 1/4	1/4	1/2	3
97RM	1 %	+.010	7 1/4	2 1/4	74	1/4	3
797L		13/2	8 1/4	2 1/4	1/4	1 1/2	3
P865 P86	4	×4	5 1/4	2 1/3	X		- ;
286M		₹6 ₹6	73/4	2 1/2	1 1/4 1/4	*	- 3
86RM	+	+.015	7 3/4	2 1/2	1 1/4	74	3
86L	— <del>—"</del>	K6	8 %	2 1/2	1/4	1 1/4	3
94M	+	452	73/4	2 1/2	1 1/4	Ž.	3
878	<del></del>	1/1	8 %	2	1 %		3
287	+	1/2	6 1/4	2 1/4	1 %		3
87L	-	<i>y</i> <sub>2</sub>	8 %	2 1/2	1 1/4	1%	87
87M		<b>%</b>	7%	2 1/4	1/4	%	9
91	1	13/4	6 %	3 1/1	14		į
88	1.	%₄	8 1/4	3 1/4	34		្ន
288M		%	7 %	. 2 %	34	. X <sub>4</sub>	3
288L		%	8	2 1/2	1/4	1	3
792		1%2	5 1/4	1	<i>Y</i> <sub>2</sub>	1/4	1
289		14	6 1/4	2 1/2	1/4		3
<b>*9</b> 8	1	13/4	6 1/4	2 1/2	1 1/4		- 8
98L	<b>-</b>	11/6	8 1/4	2 1/2	1/4	1 %	3
299		3/4	6 1/4	2 1/2	1		3
91L	!	1 1/ <sub>2</sub>	4 3/4	1/4	1/2		3
82168	- 5	4MM	4 1/62	1 1/4	1/6		1 3
8216 8236	-1-5%	4MM MM	41%		3/4		2
8236S		MM	4 1/4	1 1/4	7/4		2
8255		MM	47%	1 1/16	+ 7		2
8275		MM	413/6	1 1/6	1 %		2
8295	1 70	4MM	5 %	11%	1/4		3
8315		MM	5 %2	111/2	1/4		÷
8334		4MM	5 %	17%	1/4		-;
8354	+-%	MM	5 1/2	17%	1 1/4		
8374		4MM	5 1/4	2	1 2		
8893	10	MM	5 1/4	2	1 %		3
8433		MM	5 1/2	1 %	1/6		3
8472		MM	6 1/4	2 1/4	1/4		3
8820		820	4 1/4	1/4	Ý,		8

P90 .850" Special Pilot for V-8 60.
P91 1-1/32"x1" Special Pilot for V-8 for use when lifters are removed from engine.
Each pilot ranges from —.003" to +.007" of basic range stamped on pilot. One pilot does the work of several solid type pilots.



# ALPHABETICAL AND NUMERICAL PRICE LIST

## Grinder, industrial, Automotive Products and their parts

PRICES QUOTED ARE LIST PRICES

#### PRICES EFFECTIVE OCTOBER 1, 1974

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

TYPOGRAPHICAL ERRORS SUBJECT TO PRICE CORRECTION

COMMERCIAL PARTS WITHOUT

PART NUMBERS ARE LISTED ON PAGES 10 AND 11

ON PART NUMBERS WITHOUT PRICES, CONTACT FACTORY FOR QUOTATION

MOTORS AND ELECTRICAL PARTS ARE LISTED ON PAGE 12

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
A14 Switch Replaced by 8295K7 Switch 3.80	A4538 Arber 8.60 A453T Adapter 3.25	A480K Ring60 A480L Spring40	A4968 Arbor 14.65 A4978 Arbor 26.00	B240DT Blade 2.30 B240E Nut 4.95
A624F Washer 4.45 A127 Cord, 116V 8.20	A4548 Arbor 8.60 A4558 Arbor 8.60	A400M Spring66 A460N Spring60	A498F Arbor 20.00 A498G Arbor 23.45	B240K Br. & Key 6.85 B240S Assembly 3,25
A128 Cord, 236V 8.20 A236 Gear 6.20	A454G Body 12.80 A458B Arbor 18.80	A4800 Steel Balls 1.75 A4805 Screw 22.45	A498H Arbor 32.86 A563-1 Oilite Brg. 2.40	B269A Swing Arm 27.70 B269B Base 20.50
A239P Cent. Point 1.35 A239T Screw	A458D Arbor 10.80 A459G Assembly 12.80	A481 Arber 10.80 A482 Arber 10.80	A601G Grommet85 A612 Wire	B300XCP Grdr. 2550.00 B205E Wh. & Sht. 29.30
A246BR Bracket 8.60 A260HS Spring50	A459S Assembly 12.80 A460A Assembly 8.20	A482B Adapter 6.45 A482P Adapter 8.60	A618 Rais. Blocks 46.28 A618C Rais. Block 22.00	B205P Plate 1.90 B310R Rack 25.35
A261F Coil Spring 1.25 † A261GC Center 16.85	A460C Cone	A4828 Arbor 8.60 A482T Adapter 5.60 A483 Arbor 10.80	A619D Plug55 A622S Spring60	B310S Collar 20.00 B310T Plate 5.45
† A261GH Housing 25.55 † A261KG Knob 2.65	A460K Ring60 A460L Spring60	A483B Adapter 7.30 A483S Arbor 8.60	† A623 Block Replaced by B942T Block 2.15	B318W Hold Down 4.75 B312H Handle 3.20
† A261GS Spring 1.65 † A261L Assembly 2.15	A460M Spring60 A460N Spring60	A483T Adapter 5.60 A484 Arber 12.80	A624F Washer 4.25 A624S Washer 5.90	B215P Lock Pin 1.90 B329A Cr. Arm 12.50
A261W Washer 1.85 A261Y Felt65	A4600 Set of Balls 1.55 A460P Spring60	A4848 Arbor 8.66 A484T Adapter 5.60	A624W Flange 5.15 † A629 Gr. & Shaft 20.95	B329C Tran. Cov. 19.45 B329CA Gear 11.60
A267LT Tube 1.85 A262D Dia. Sc.	A460S Screw 17.15 A461 Arbor 7.85	A485B Adapter 6.95 A485B Arber 9.75	† A629B Sleeve 1.75 † A629C Pinion Stud 2.15	B329CB Genr 11.60 B329D Genr 7.35
10-32 Thread 8.70 A269E Nat 1.05	A461B Adapter 6.10 A461T Adapter 5.00	A485T Adapter 5.60 A486B Adapter 6.95	† A629D Shaft 5.15 † A629G Gear 5.15	B329E Hd. Shaft 11.60 B329G Gasket70
A269H Handle 3.50  A269N Nut 3.40  A269G S. Bar 3.00	A462 Arbor 8.20 A462B Adapter 5.60	A4848 Arber 9.90 A484T Adapter 5.60	A629J Pin	B229H Handwheel 15.95 B329S Shaft 9.10
A289T Table 52.00 A290AP Br. Plug .45	A462S Arbor 7.75 A462T Adapter 5.00 A463 Arbor 7.75	A487B Adapter 6.95 A4878 Arber 9.90	A630BP Plug60 A630BS Spring60 A630H Spacer85	B329X Plug
A290 AS Serew 1.00	A463B Adapter 5.60 A463B Arber 8.20	A488D Arbor 14.65 A488F Arbor 19.30	† A6268 Assembly 62.85 A634MB Cover60	B330HF Pt. Br 1.90 B330HE Dust Sh. 1.05 B320SF Food Sc 55.70
A2908 Switch Replaced by B890S Switch	A463T Adapter 5.60 A464S Arbor 8.20	A488G Arbor 23.45 A488H Arbor 32.00	A636P Pin	B3308FM Cr. Se 98.00 B330W Sad. H. D. 6.50
A401J O.D. Jaws 35.50 A450A Assembly 6.45	A464T Adapter 5.80 A465S Arber 19.25	A490A Assembly 8.60 A490C Cons 20.95	A628 Switch 10.15 A628B Wire 3.40 A638D Wire 4.75	B398 M. Kit
A450C Cone 8.60 A450G Assembly _ 10.45	A467B Adapter 5.60 A468B Arbor 10.80	A490L Spring60	A643A Ad. Race 18.85 A643D Assembly 5.55	† B610E Table Extn. 8.45 B610K Rack 32.60 B610KG Goar 6.95
A450L Spring60 A450M Spring60	A468D Arbor 10.80 A468S Arbor 9.90	A490M Spring60 A490N Spring60	A643DP Pad 1.90 A643M Front Race 20.95	B610P Hold Down 8.45 B610PR Roller 1.75
A450N Spring60 A450O Steel Balla 1.00	A470A Assembly 5.60 A470C Cons	A4900 Set of Balls 2.15 A4908 Serew 32.00	A645 Tilt. Table188.50 A645T Assembly _ 88.00	B610PS Spring80 B610PT Nut 2.35
A450P Spring60 A451 Arbor 6.25	A470K Ring	A499T Retainer	A646A Bushing,85 A646B Slide Bar 6.48 A646C Casting 21.45	+ Beler Sleeve
A451B Adapter 4.35 A451P Adapter 6.10	A470M Spring60 A470N Spring60	A493 Arbor	A646N Nut 2.15 A646S Stud 1.75	B610S Shim
A451T Adapter 3.20 A452 Arber 8.60	A4700 Set of Balls 1.65 A470P Spring60	A494 Adapter 14.65 A494B Adapter 7.30	A736 Sh. Ex 65.00 A3475Y Shaft 17.00	B610TS Shim65 B610W Stop 3.25 B611E Table Ext. 23.00
A452B Adapter 5.20 A452B Arbor 8.60	A4708 Screw 21.40 A480A Assembly 8.60	A494T Adapter 7.30 A495 Arber 15.85	B236 Gear 8.45 B240C Base 5.95	B611G Table Ext. 22.00 B611G Table Ext. 22.00 B612C Handwheel 11.60
A452T Adapter 4.35 A453 Adapter 5.60	A480C Come	A495B Adapter 7.30	B240D Blade 2.15	B412N Handwheel 11.66 B420D Pinte 4.75
A452B Adapter 6.20	<del></del>	A495T Adapter 7.30	BZ40DS Blade 1.75	

Form MPL-100

A New Item † Price Increase | Price Decrease † Items discontinued -- may not be in stock

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
B420P Pin	B647L Belt 2.76	B729R Plunger , 2.15	B810P Plate 1.05	B838K Roller 3.25
	B647M Tube 4.25	B729S Shaft 16.85	B810R Rack 18.75	B838L Saddle Way 29.30
B621 Assembly 58.70	B647R Lock Ring .50	B729T Drive Pin 1.05	B810S Serew 1.40	B830LP S. W. Pin .70
B621C Assembly 27.70	B647S Spindle 62.56	B743B Bearing 23.95	B810T Plate 3.00	B830P Collar 1.50
B621D Cap 3.40	B647T Cellar ,85	B743E Bearing 23.95	B810W Stop 3.90	B836R Saddle Way 29.36
B621E Cap 2.15	B447W Wheel 10.45	B743GS Assembly 88.00	B810WL L.H. Stop 5.00	B836RP S. W. Pin 1.65
B421L Lever 4.05	B647WH Hub 20.50	B743H Spr. Cap 2.40	B816WR R.H. Step 5.66	B830RS Spring
B421S Spring 1.05	B647WS Spoke60	B743L Lock Ring 5.55	B812C Handwheel 22.66	
+ B622J Block 2.35	B647Y Retain. Pin .60	B743M Collar 4.35	B812K Handwheel 22.00	B836S Assembly 43.66
+ B623K Block 2.35	B649C Sleeva 2.15	B743P Plate 6.48	B812KM Hd. Wh. 32.00	B836ST Th. Col 6.66
+ B623L Block 2.35	B649N Nut 2.15	B743R Ring 13.45	B813A Screw 3.95	B830T Plate 2.15
+ B623M Block 2.60	† B649S Sleeve 2.15	B743RP Pin	B813B Bushing 1.90	B830W Wp'r Strip .70
+ B623N Block 2.65	† B649W Washey 2.35	B7438 Spindle 68.00	B\$13C Lock Cage 8.45	B836Y Felt Wick
B624H Link 5.75	† B650C Bleeve 3.15	B742W Weeker 3.25	B\$13H Nut 9.30	
B624N Nut 8.45	+ B656N Nut 5.35	B755 Gr. Head	3513N Nut 1.55	B8\$1-1 Pump and
B624P Pin60	+ B656S Sleeve 3.26	Replaced with	30135 Shoft 11.30	Tank Assembly 619.66
B6248 Nut	† B450W Washer . 2.35	B955 Gr. Hend \$80.00	3815A Ped 2.00	B441-2 Hyd. Pump and
	† B451C Sleeve 4.25	† B755K Sad. & Lock	B615B Peleter 3.15	Tank Assembly 419.40
B425P Pin	+ B651N Nut 3.25	Amembly 45.86	B615C Clamp Boz 56.56	B831-3 Hyd. Pump &
	+ B651S Sleeve 3.25	Adapts B955 to A660	B615P Pin 1.60	Tank Assembly \$20.00
B626B Pinion 10.46	† B452N Nut 3.45	B780CA Arber 22.55	B6155 Swivel 5.35	B831A Mtr. Cover
B626G Gear 25.15	† B452S Sleeve 4.25	B780CC Cap 2.80	B615X Ping65	
B627B Blade	B453N Nut 5.00	B780CF 3/32 Heb. 5.35	B818C Block 16.06	B831AR Ring 11.95
	B453S Sleeve 9.30	B780FA Arbor 12.25	B620C Barrel 19.90	B831C Cov. & Mt. 77.40
B629G Gasket86	B453SB Sleeve Bl. 9.30	B780FL Flange 5.35	B6266 Swivel 30.00	B831E Male Elbow 11.05
B629H Housing 15.40	B655A Arm 8.45	B780FS Flange 2.98	B6206D Swivel 40.00	B831F Filt. Asbly. 27.30
B629L Gear 8.45	† B655B Guide Block 1.05	B780FW Washer 2.15	B\$21B Body 33.15	B831FW Filt. Sen. 2.35
B629M Bushing 2.76	B670 Fixture 90.00	B780FX Washer 1.56	B622B Assembly 2.15	B831M Mer. Nipple 2.86
B629P Plug	B670A Arm 2.85	B780H1 Pulley 12.00	B822BA Bur 1.35	B631J Pulley 2-1/8 9.10
	B670R Assembly 45.00	B789E Washer 1.75	B823AB Stud80	B831JV Pulley 11.00
B630B Assembly 10.40	B470RB W. Blade 9.00	B789S Swivel 16.85	B623AC Clamp 1.05	B631L Tube 2.15
B630F Sod. Guide 23.00	+ B470T T-Slot Blk. 45.00	B789V Swivel 37.20	B522AH Field , 106.95	B681P Hese 3.00
B430G Guide 23.94	B475 Screw 2.90	B789XB Block 20.40	B823AN Plate NC	B831PL V. Return 1.96
B430K Saddle Step 1.05	B475H Handle .65	B789ZB Block 20.40	B823AR Assembly 81.70	B831PS Pipe 2.15
B410R Wire	B684N Nut 2.35	B792B Assembly 18.85	B823AS Shaft 27.30	B831R Bushing . 1.75
	B684S Screw 15.50	B792BC Cellar 3.20	B823AW Wire70	B831T Tak. Ashly. 37.75
B430SG Sleeve 2.15 B430W Collar 3.25	† B685A Arher 38.75 B685B1 74" Bush. 11.60	B792BD Dr. Belt 9.45 B792E Lock Ring 8.80 B792H Henning 40.70	B823EB Stad80 B823EE Shield 20.60	B831W Valve 12.10 B833 Assembly207.70
† B431 Assembly Replaced by B955AX 333.45	B085B2 1" Bush. 14.75 B485B3 114" Beh. 16.85	B792H Housing 60.70 B792L Ring 10.15 B792M Front Race 35.65	B823EH Assembly 118.00 B813ER Assembly 77.55	B833D Dir. Valve 16.40 B833EH Head 7.35 B833F Adv. Stop 13.90
B437W Ring 1.10 B440KC Column 5.40	B485B4 1½" Bah. 18.85 B485B5 1¾" Bah. 20.95	B792R Ad. Race 29.30	B823ES Shaft 28.35 B823W Washer	B833H Dw. Valve 16.85
B441AA Adapter w/o Key 34.00	B685B6 2" Bush. 24.85 B685D Bushing 2,66	+ B792S Spindle 94.25 B792W Pt. Wiper .75 B792Y Rear Wiper .75	B824NM Fd. Nut 18.50 B824S Tube 7.35	B833P Plate 18.85 B833RC Step Blk. 6.50 B833RR Rev. Step 8.20
B641AK Key85 B641H Hand Wh. 12.00	† B485E Stud 8.50 B485F Block 5.35	B800A Assembly B890B Assembly	B825 Column 83,80 B825K Key 10.10	B833W Washer
B641HH Hand Nut w/Ham 19.40	B485G Spring	B800T Assembly B805B Bracket80	B825KB Key Body 6.85 B825KF Key Plat 1.75	B834 Cylinder 169.60 B834GB Gl. Body 4.90
B641S Sleeve 26.25 B641W Assembly 36.65	B685KS Stud 2.90 B485L Screw 2.35	B805E Shaft 4.50	B826G Gear 18.85 B826P Gear 13.65	B834GF Sup. Ring 1.35 B834GM M. Sup.
B643A Ad. Race 18.80 B643DP Pad 1.35	B685M Nut 1.20 B685N Nut 3.90	B805K Plate 4.45 B805M Nut 2.15 B805N Lock Nut 1.75	B826S Screw 37.75 B826SM Screw 43.80	Ring 1.05 B834GN Gl. Nut 3.40
B443GS Assembly 125.85	B685NP Plug .68	B805P Plate	B826W Washer60	B834GR Gl. Bush. 2.15
B643M Front Race 19.00	B685P Handle 4.25		B827N Nut 1.85	B834M Conn. 2.84
B643TR Assembly 3.85 B647CA Cam 12.90	† B485R R. Block 41.95 B685W Assembly 10.35	B805S Screw 4.25 B805SH Handle 2.15 B805SS Screw 2.15	B827S Screw 1.90 B828 Hex Wrench 1.75	B834N Lock Nut 3.90 B834P Piston 2.70 B834R Rub. Pad70
B647CAL Cam 12.90 B647CB Cam 12.90	B485WG GIb 2.80 B485WP Gib Pin	B805SS Screw 2.15 B805W Washer 60 B808 Assembly 52.40	B829 Trnamision. 152.36 B829A Assembly 11.65	B834RF Cyl. Red 10.15
B647CBL Cam 12.90 B647CC Cam 12.90	B485 X Assembly 10.45	B808B Bracket 5.80 B808L Saddie 34.60	B829AC Crk. Arm 8.65 B829B Assembly 5.60	B834RM Cyl. Red 10.15  B834 Rack Gear 8.45
B447CCL Cam 12.90 B447CS Cam 15.75	B685XG GB 2.95 B685Y Crank 7.35	B808S Saddle 38.00 B610B Assembly 5.55	B829C Assembly 25:15 B829CB Cover 18.85 B829CJ Jaw 5.26	B849P Block 3.90 B849S Sheft 2.35
B447CSL Cam 15.75 B447CT Cam 15.75	B685YH Handle 1.35 B685Z Collar 0.30	B610B Assembly 5.35 B810BA Arm 3.25 B810BR Roller 4.25	B829CS Shaft 3.25 B829H Henging 25.15	B849T Block 3.90 B843A Arm. 115V 24.45
B647CTL Cam 15.75 B647D Spec. Disc 38.00	B693G Gear	B810BS Stud 1.05	B829K Knob 2.86 B829R Cage 9.15	B843F Field, 115V 11.96
B447D2 Index Disc 10.15	B653L Insulation	B810CW Washer60	B8298 Shaft 14.75 B829T Pin 2.15 B829W Plug .50	B844BA 12B8 Ar. 45.00 B844MA 5MT Arb. 45.00
B447D3 Index Disc 10.15 B847D4 Index Disc 10.15	B497 Pulley 11.20 B498 Pulley 12,65	B810H Stud 3.65 B810HW Washer60	B829Y Assembly 36,45 B630 Saddle 415.30	B8458 Slide 24.85 B846J Guard 12.50
B647D5 Index Disc 13.85	B712H Handle 5.60 B724H Link 5.75	B810J Pin	B830B Assembly 12,40 B430BA Sp. BL 12,90	B846K Guard 12.50 B851C Cap 6.50
B447D4 Index Disc 13.65	B729 Assembly146,60	B810K Knob 3.00	B830D Shield60	B852A Arber
B447K Assembly 44.85	+ B729C Assembly 9.75	B810L Nut 2.15	B830E Shield60	
B447KS Key 1.75	B729E Collar 1.90	B810M Plunger80	B830F Plate I.05	B855A Assembly264.25
B447KT Key 1.75	B729P Shaft85	B810N Nut 1.05	B830G Ptr. Shield 4.25	B855B Body

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
B&S&CL Cap. long 11.85	B923EY Washer 5,96	B933N Nut. 186* 5.15	B942H Housing 38.60	B943MMP Plate70
B&S&CS Cap, short 9.75	B923GR Rtr. Ass. 8,26	B933NK Nut 11.05	B942HS Housing 58.65	B943YC Seal 2.80
B855D Spindle 52.44	B923LS Lp. Stud 1.04	B923P Plate 39.00	B942R Ring 11.36	B943YD Cap 1.75
B655E Flange 3.90	B923T Slide Amm. 22.90	B933R Ring 3.95	B942S Spindle 66.50	B945CC Adp. Cst. 21.65
B855F for 1/2" 92.00	B923TS Slide 14.75	B933RL Bracket 9.10	B9428XB Spindle 153.40	B945CS Stud 2.15
B855J Nut 1.75	B923TT Thd. Std. 1.90	B933RR Bracket 9.10	B9428XM Spindle 153.40	B945GB Guard 52.00
B855K Amombly 40.30	B924NK Collar .76	B9338 Speel 19.05	B942T T-Slet Blk. 2.15	B947A Col. Adap. 111.70
B855L Plug80	B925 Column 99.00	B933T Speel Step 3.40	B942XC Collar 13.90	B947F Felt
B855M Saddle 29.30	B925B Sp. Buah. 5.35	B933Y Vel. Wash80	B942XH Housing 73.30	B947H Housing 52.00
B855N Lock Nut 5.35	B925M Assembly 17.90	B934 Hyd. Cyl 195.00	B942W Washer 1.90	B947K Cap 1.35
B855P Plate 47.00	B925MD Disc 13.96	B934B Bracket 11.40	B943 and B1843 MOTORS	B947R Ring
B855R Ring .70	B929 Assembly 138.45	B934C Hyd. Cyl. 40.85	LISTED ON BACK PAGE	
B\$558 Saddle 35.65	B929C Cover 22.79	B934GB Gl. Bedy 13.90	B943AC Cap 22.50	B947T Collar 11.60
B\$55T Stud 1.75	B929CA Gear 8.45	B934M Male Con. 4.45		B947W Draw Tube 28.75
B455X Stud . 2.65	B929CB Bushing 2.35	B934N Lock Nut 6.25	B943ACA Aux. Cap	B947Y Coil Spring 1.65
B454C Cover . 1.50	B929CG Gasket .65	B934P Picton 9.45	Amembly 46.40	B948C Cone Stv 10.00
B854G Tank 16.00	B929CS Shaft 1.45	B934R Rod. Wash85	B943AJ Wire80	B946N Nut 1.95
B856P Plate 1.50	B929H Housing 14.75	B934RF Cyl. Red 10.35	B943AP Fleid Pos65	B948W Cn. Wash. 2.35
B840GL Spacer 1.90	B929L Drive Gear 6.30	B935DT Dr. Trgh. 14.75	B943AT Washer .65	B949 A Arbor 45.00
B840GN Nut .90	B929LL Spacer 1.75	B935G Dt. W. Gd. 39.25	B943B Bracket 4.75	B956 A Arbor 49.75
B840GS Spacer 1.50	B929LS Spacer 1.75	B935GA Sp. Gd. 7.00	B943BL Sw. Box 17.90	B951A Arbor 54.48
B840R Washer .60	B929S Drive Shaft 14.36	B935GB Sp. Gd. 6.30	B943BU Sw. Box 12.50	B952A Arbor 58.79
B878 Meter Head 131.50	B929W Collar 2.35	B935GD Sp. Gd. 8.95	B943C Assembly400.00	B953A Arbor 72.70
B885TS Tb. & Sdl. 77.60	B929Y Sta. Sheft 24.00	B935GL L. S. Gd. 27.30	B943CB Assembly 600.00	B954A Arbor 102.70
B8908 Switch 23.40	B930BY Rir. Axie 242.00	B935GR R. S. Gd. 27.30	B943CM Assembly 600.00	B955 With Std. Mtr.
+ B893BS Bushing 1.50	B930E Shield .70	B935GS W. W. Gd. 21.85	B943DP Pulley 10.40	less all other atd.
B895 Fixture 115.15	B930HE Shield .85	B935N Noanle Ans. 23.95	B943DS Screw 2.15	Equipment
B895B Bracket 40.36	B930HB Feed Bar 12.60	B935NA Bdy. The. 15.75	B943EP Field Poe65	
B895S Shaft 29.30	B930HG Gasket 2.60	B935NB Bracket 8.45	B943F Seal 4.90	B955AH Housing 56.28 B955AP Pul. Cap 33.06
B895DP Dr. Plate 23.00	B930HT Tube 3.80	B935NN Nozale 3.60	B943FA Br. Seal 10.73	
B905BP Bracket 2.65	B930P Plate .70	B935NP Pvt. Stud 5.80	B943FR Seal 4.75	B955AS Spindle 65.80 B955AT Wn. Wah. 3.25
B905C Spacer 2.65	B930RP Plate .85	B935NS Gd. Stud 5.80	B943G Seal 5.89	
B905E Shaft 12.60 B905K Back Plate 4.25	B930RR Oil Roller 1.90 B930SS Spacer 1.75	B935NT T-Slot Pl. 1.05 B936BA Arber 20.00	B943H Housing 121.55 B943HB Bushing 1.90 B943HP Pulley 13.10	B955AW Sp. Wah90 B955AW Quill As. 322.20
B910R Rack 27.70 B910S Swivel for	B930SW Washer .80 B931 Assembly 571.00	B936BB Dr. Bolt 3.95 B936BLH Thread 82.90	B943L Assembly 4.25	B955B Quill Br. 88.80 B955CC Thd. Cap 13.85 B955CN Spec. Nut 3.85
Sub Table 25.15 B910T Index Plate 8.45	B931C Tank Cover	B936CB Body 18.00 B936CBL Body 18.00	B943MA Shaft and	B955CP Th. Pulley
B912C Hand Whi. 20.00	B931H Hose Coup. 5.26	B936CN Nut 3.65	Worm 22,36  B943MB Sad. Plt. 5,35  B943MC Spring .60	B955CPP Pul. and
B912CM Hd. Wh. 32.00	B931J Pulley 8.36	B936CNL Cel. Nut 5.15		Cap Pl 25.15
R915 Tep Table 221.50 B918C Block 40.95	B931JV Pulley 11.85 B931T Fluid Tank 67.00	B936CS Spacer 3.40 B936CW Washer 2.70	B943MC Spring .60 B943MD Stud 1.65 B943MDL Stud 1.05	Cap Pl 25.15  B955CQ Spindle 96.40  B955CW Sleave 15.40
B921LH Housing 32.00 B921RB Bushing 2.35	B931TB Bracket 3.20	B936EX Body only \$0.00	B943ME Housing 24.25	B955DA Arm 2.85
	B931TE End 7.60	B936N Spndl. Nut 4.30	B943MF Bushing 8.20	B955DB Bracket 4.75
B921RC Center 41.50 B921RCP Car. Cn. 78.90	B931TP Partition 4.25 B931W Valve 18.90	B936PB Dr. Belt 2.35	B943MG Gasket .60 B943MH Housing 28.50	B955FB Draw Belt 2.35 B955FN Nut 1.55
Female Center for	B931W27 Washer .60	B936PS Screw 2.86	B943MM Mtr. Mt. 2.35	B955G Lk. Sc. As. 3.05
B922R M.S.S. 62.95	B931W36 Washer .30	B939B Assembly 21.85	B943MMG Strap .80	B955HB Handwhl, 6.85
Female Center for	B931W56 Washer .60	B939BB Base 11.30	B943MMT Plate .70	B955HC Collar 2.35
B922R Carbide 91.25	B931WB Body 8.45	B939S Shaft 5.20	B943MP Pulicy 13.00	B955HD Um. Hd. 1920.00
B921RG Gear 5.75	B931 WN Ndl. Val. 8.45	B939SC Collar90	B943MPL Sp. Pul. 46.25	B955HD with Std. Mtr. less all other
B921RH Heming 34.00	B931 WS Spring .85	B940A Cross Arm 15.20	B943MR Screw 2.15	
B921RL Arm 4.45	B931X Hose .80	B940C Base 7.35	B943MT Shaft 1.90	Std. Equip
B921RP Plunger 6.26	B931Y Hose .80	B940F Feed Serew 1.90	B943MW Assembly 9.70	
B921RS Shaft 2.65 B922H8 Th. Pl. 11.30	B933 Valve Assm. 276.85 B933B Body Assm. 89.00	B940GB Body 7.60 B940GC Collar 3.05 B940GN Nut 6.20	B943MX Wanher .60 B943PG Guard 7.00	B955HP Spg. Plg. 1.05 B955H8 Screw 4.45
B923 Motor Assemblies	B933BB Body enly 71.30	B940GS Swivel 3.90	B943PS Screw 3.40	B955P Slide 88.00
Shown on Back Page	B933BC Bar 6.40		B943PT Guard Sp. 1.90	B955PC Clamp 12.00
B923AR Rtr. Am. 81.85 B923DC Cover 11.60	B933BG Gasket 2.35 B933BL Gasket 2.35	B940H T. Rest 18.25 B940HWB Barrel 2.00	B943RM Cyl. Rod 11.60 B943S Spindle136.90	B955PL Lock Sc. Assembly
B923DS Gnaket 3.40	B933BR Ring 17.90	B940HD1 Blade 1.50	B943SB Amembly 214.50	B955X Swiv. Stud 2.60
B923DS Spec. Sc. 3.40	B933C Plate 23.00	B940HD2 Blade 1.50	B943SBS Spindle 207.70	B960G Belt Gd. 38.50
B923EC Clamp .78 B923EE End Bell 18.28	B933D Valve 37.75 B933EH Con. Arm 10.00	B940HD3 Blade 1.50 B940HF Blade 1.65 B940R Rock, Ass. 36,90	B943SC Collar 3.00 B943SM Assembly 215.75	B960P Lev. Pad .90
B923EF W. Flng. 3.25 B923EH Housing 70.20	B933F Swng. Stop 23.00 B933FA Pin 1.55	B940R Rock, Am. 36.90 B940RB Roc. Bik. 6.40 B940RS Roc. Shft. 12.10	B9438MS Spindle 207.70 B9438P Pulley 9.30	B960R Rubber Pad 1.75 B961S Swivel 29,26
B923EJ Spacer .80 B923EK Spacer .80	B933FB Body 10.35 : B933FP Plate 6.85 :	B940RS Rec. Shft. 12.10 B940S Up. Shaft . 3.65 B940T Swiv. Block 4.75	B943SS Spindle 125.45 B943TA Test Arb. 18.90	B965BG Grd. Wire 1.35 B965BW Pw. Wire 1.35
B923EL Bracket 14.9% B923EM Spacer .80	B933FS Spring 2.15 B933H Con. Valve 26.25	R946W Ten. Wab. 46	B943VB V-Belt 6.30	B965D Boor 45.65  B965DC Dr. Catch 3.15
B923EN Spec. Nut 1.65 B923EP Plug .60	B933J Con. Valve 24.20	B941S Draw Tube 26.65 B941W Assembly 38.75	B943VBS Belt 6.30	B965DCA Bracket 1.30
B923ES Shaft 36.40 B923ET Stud .80	B933K Shtoff Sc. 9.10  B933LA Lvr. Arm 11.05	B941Y Adap. Col. 8.60 B942B Base 33.86	B943W Washer 1.75 B943YA Seal 2.30	B965DCB Bedy85 B965DS Spacer 2.10
B923EW W. Fige. 3.25	B933M Pointed 2.60	B942DC Cellar 5.75	В943ҮВ Сар 1.75	B946A Tank Rail 5.30

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
B966BW Pw. Wire 1.75	B985D Gd. Bush. 1.90	B2023H Housing 101.60	B6013P Lock Pin90	B6055AS1 Spindle 125.85
B966DS Spacer 7.35	B985E Stud 16.85		B6013S Adj. Sc. 3.45	B6055AT Spacer 25.15
B966G Panel 15.40	B985EA Arb. Stud 16.85	B2030DB Hold	B6014B Bracket . 31.45	B6055FA Arbor 31.45
B966GC Elec. Con. 6.40	B985G Spring .85	Down Bar 12.50	B6014E Ex. Crofd. 14.20	B6055FB Dr. Bolt 2.55
B966H Hinge 6.40	B985H Housing 260.00	B2030DBL Hold	B6014EC Sleeve 3.95	B4055FD Arbor 56.65
B966HS Strip 4.75	B985K Turn Table 88.00	Dn. Bar (Long) 15.20	B6014S Sad. Fd. Sc.	B6055H Housing
B966P Piate 4.75	B985J Cen. Gauge 54.48	B2030HE Dust Sh. 1.05	B4017 Fine Feed 410.00	B6055HC Collar 2.55
B966T Piate 9.76	B985JG Cn. Gauge 54.40	B2031B Lock Ring 1.35	B6023EN Spn. Nut 4.10	B6055HL Stud 5.00
B966WL Pw. Wire 1.96	B985JP Cap 1.90	B2031C Cover 80.60 B2031F Oil Gauge 5.20	B6023TB Bushing 4.75	B6055HN Fd. Nut 12.60
B966WS Switch 1.96	B985L Lock Sc. 3.40		B6023TBL Bushing 2.55	B6055HS Belt Se. 4.25
B968 Cot. Fix. 752.00	B985LN Lock Nut 3.90	B2031FC Ga. Cap 3.40	B6024NS S. F. Bar 7.10	B6055HW Washer .86
B968B Base 72.30	B985LP Pivot Pin .70	B2031FS Stick .85	B6025 Column	B6055K Dvtl. Sad. 62.95
B968C Center 4.75	B985M Feed Nut 4.75	B2031K Cover 80.60	B6025C Index Co. 42.50	B6055M Slide 75.55
B968D Ind. Disc 44.85	B985PC Pivot Cap 17.50	B2031R Lock Ring 2.15	B6025KB Body 11.95	B6055S Swivel 91.25
B968E Stop 9.10	B985PN Lock Nut 5.75	B2031S Spacer 2.50	B6025KF Flat90	B6055SB Sw. Bar 2.35
B968H Handle 6.20	B985PP Pin .85	B2034 H. Cy. As.	B6026AC Aux. Sh. 18.90	B6055SS Sw. Stud 10.75
B968HE Han. Ex. 4.75	B985PS Pivot Stud 58.10	Replaced by	B6026AS Spacer80	B6055T Thr. Stud 2.55
B968K Collet 30.00	B985PT Plug .60	B4043 188,50	B6026B Bracket 44.00	B6060G Belt Guard 23.60
B968KD Collet 30.00	B985S Saddle 37.75	B2034B Coup. Bik. 19.00	B6026CB Block 14.20	B6060GA Arm 5.00
B968KP Pin 3.00	B985SA Lvr. Arm 3.90	B2034C Cylinder 39.00	B6025CH Housing 53.50	B6060GS Spacer 1.55
B968L Link 11.60	B985T Table 46.20	B2034PR Piston & Rod Assembly 32.00	B6026CS Cr. Shaft 75.00	B6060GT Stud for
B968N Nut 15.75	B985W Fd. Sc. As, 11.60		B6026D Guard 11.30	Belt Guard 3.00
B968P Plunger 17.90	B985WB Brg. Blk. 6.40	B2034R Cyl. Red 12.30,	B6026G G. Driven 24.40	B6060GW Washer
B968PR Pl. Rod 3.65	B985WS Feed Sc. 7.20	B2034RBB Cl. Red 12.30	B6026GD G. Drive 16.40	with shoulder .80
B968PS Pl. Stop 3.45	B985X Fd. Sc. As. 11.60	B2035DC Dr. Cap 7.60;	B6026N Feed Nut 22.00	B6052AC Cap 12.60
B968R Dr. Tube 55.80	B985XS Feed Sc. 7.20	B2035DH Hose 6.95	S6026NM Fd. Nut 44.00	B6062AN Lock Nut 6.30
H968S Swivel 31.45	B985YA Handwhl. 7.20	B2035DT Trough 19.90	B6026P Gear 19.70	B6062AR Ret. Nut 5.65
B968T Tooth Stop 6.85	B985YH Handle 2.15	B2035GA Sp. Gd. 8.20	B6026SA Shield 3.20	B6062AS Spindle 107.00
B979C Bracket 49.75	B985Z Index Co. 7.00	B2035GB Sp. Gd. 9.00	B6026SB Shield .80	B6062AT Spacer 31.45
B981A Lever Arm 7.20	B986A Swg. Arm 125.60	B2035GC Sp. Gd. 9.45	B6026SF Elev. Sc. 88.00	B6062AW Spacer 14.20
B981B Bracket 19.45	B987A Arbor 58.70	B2635GD Sp. Gd. 9.45	B6026SFM El. Sc. 120.00	B6062AWX Spacer 21.15
B981BS Bracket 19.45		B2635GR Col. Ret. 7.65	B6026SS Spacer 6.75	B6062G Gward 38.00
H981L Link 2.35	B987AB 12 B&S	B2035GW Washer .90	B6026SW Washer 2.55	B6062AY5 Shim .65 B6062AY15 Shim .65
B9RIP Link Pim 1.90	Arbor 69.15	B2043B Bracket 17.90	B6027B Base 18.90	
B981S Draw Tube 72.35	B987AM Arbor	B2043MB Sad. Pit. 4.78	B6027M Mic. Nut 10.10	B6062MR Sp. Sc. 2.85
B981T Thrust Pin 3.40	No. 5 Morse 69.15	B2098 M. Kit 276.40	B6027S Screw 5.65	B6067C1 Cover
B981W Washer 1.90	B987F Plate 94.25	B3023E End Bell 44.50	B6028 Wrench 4.00	1 opening 29.90
B981Y Yoke 24.65	B990B Switch Box 3.90	B3023ES Spacer 4.25	B6029 Trans. 180.00	B6067C2 Cover
B982B Bane 36.40	B990W Jpr. Wire .85		B6029AA Ex. Arm 5.40	2 openings 31.45
B982CC Collar 31.20	B990X Jpr. Wire .85		B6029AB Hundle 7.85	B6067C3 Cover
B982CS Set Screw 1.30 B982H Housing 52.00	B990Y Jpr. Wire .85 B992A Brg. Shid. 18.90	B3034E End Cap 8.35 B3034P Platon 9.25 B3034PC Cap 6.65	B6029AS Spec. Sc. 1.55 B6029C Handwheel 48.75	3 openings 33.00 B6098 M. Kit 366.55
B982T Table 33.80 B982-6 Pivot (M) 3.90	B992H Housing 81.85 B992R Ring 12.60	B3034PC Cap 6.65 B4034 Cyl. Assm. 188.50 B4034PR P. & Red 36.00	B6029S Dr. Shaft 16.50 B6029Y Sta. Shaft 22.80	B6223GN Data Plt. 1.55 B7034 Cyl. Assm. 205.40
B982-7 Pivot (F) 1.30 B982-11 Holder 13.80	B992S Spindle 198.00 B994A Stop 25.80	B4034RK R. Kit 13.26	B6030SF Cr. Sc. 188.75 B6030ST Spacer 12.60	B7034B Coup. Blk. 11.30 B7034C Cylinder 28.35
B982-12 Arm 44.20	B994B Body 39,85	B5034 Cylinder 182.00	B6030WC Shroud 188.75	
B982-13 Washer 1.55	B994C Cover 29.00	B5034BB Cyl. As. 166.75	B6030WD Sh. Hy. 188.75	
B982-14 Washer 1.80 B982-15 Feed Sc. 4.95	B994G Gasket .50 B994N N. Plate .85	B5034BL Br. Lew. 9.10 B5034BU Br. Up. 9.10 B5034C Cylinder 17.15	B6030WB Bracket 4.45 B6034 Cylinder 188.50	B7034PR Piston and Rod Assembly 43.55
B982-16 Lock Nut 4.70 B982-17 Ad. Nut 2.60	B991P Pis. As. 147.90 B994V Val. Bd. 51.55 B1031AB Bracket 12,20	B5034E End Cap 4.25	B6034BB Cyl. As. 188.50 B6034C Cylinder 18.90	B7034RK Rep. Kit 14.55 B8034 Cyl. Amm. 226.00
B982-18 Spacer 1.30 B982-21 Arm 2.60	B1031AB Bracket 12,20 B1031C Cover 90.00 B1031D Ell 9.10	B5034P Piston 5.75	B4034PR P. & Rod 44.00 B4034PRB P. & R. 47.00	B8034B Coup. Blk. 15.60 B8034C Cylinder 29.35
B982-22 Head 10.40 B982-23 Stop 7.80	Bi#3iE Elbow 12.26	BS034PC Cap 3.00 BS034PN Nut 2.15 BS034PR P. & Rod 30.00	B6034RK Rep. Kit 20.55 B6035BA Arm 18.90	B8034K Gasket
B982-24 Pin90 B982-30 Air Br. 218.00	BissiH Long Tee 8.45	B5034RB P. & Rod 36.00	B6035BP Plate 9.45 B6035DA Arm 6.50	B9043PM1 23.95 B9043PM2 39.00
B982-33 Spindle 156.00 B982-34 Sp. 5C 208.00	B1031K Cover 75.40 B1031P Pulley 12.60 B1033 Hyd. Valve \$64.00	B5034RK Rep. Kit 14.55 B5034RT Thimble NC B5034Y Yoke 8.45	B6035DB Bracket 6.50 B6035DT Trough 30.45	R9441PW1 19 As
B982-35 In. Col. 15.60 B982-36 St. Col. 9.75	B1033D Pil. Valve 20.95	B5095 Oil Win. 2.80	B6035G Gd. An. 128.70 B6035GG G. B. 8" 69.25	B9043PSI Pulley 9.00 B9060G Belt Gd. 35.75 B9092BD Dr. Bolt 14.95
B982-37 Nut 10.15 B982-38 Elbow 3.65	B1055A Quill A. 240.00 B2005W Way-Ver 76.20 B2005WF Way-Fit. 71.25	B6005BA Ac. Slv. 75.50	B6035GR Cool. Rt. 11.85 B6035N Noz. Ass. 21.70 B6035NA Body &	B9092BC Collar 8.15
B982-39 Dr. Tube 54.60 B985A Swng. Arm 29.00	B2010R Rack 39.00	B4005BL Cl. Band 3.15 B4005BS Cl. Band 3.15 B4005C Housing 314.60	Tube Ass. 14.30 B6035TA Drain Tube	BA805B Bracket 2.70 BA805C Spacer .90 BA805E Shaft 8.45
B985AA Sw. Arm 29.00	B2010RB Rack for	B6005CP End Plt. 18.85	Assembly 31.20	BA805N Lock Nut 3.25
B985AB Index Ber 6.40	Back Operation 65.00	B6005S Col. Lock 12.60	B4035TL Tube 3.15	BA805P Ind. Plate 1.05
B985ABS Holder 37.00 B985AD Arbor 30.70	B2010T Ind. Plate 6.30 B2017B Brg. Blk. 7.86	B6005SP Lock Ped 3.65 B6005SS Lock Sc. 9.45	B6038 Steady Rest 187.00 B6038R Rais, Blk. 47.00 B6038RB R. Blk. 47.00	BA805R Lk. Ring 3.90 BA805Y Washer .98
B985AE Dia. Hold. 8.20 B985AM Holder 37.75	B2017BL Brg. Blk. 11.25 B2017S Feed Sc. , 197.35	B4005W Dust Shd. 6.30 B4002C Hd. Assm. 97.50	B6042B Base 48.00 B6055AH Housing 66.00	BA825 Column 83.80 BA965BB Plate 10.40 BA905BP Ptr. Bk. 2.95
B985B Base Stud 1.85	B2019D Lock Serew Assembly 11.45	B4012H Handwheel 50.40	B6055AN Lk. Nut 7.85 B6055AR1 R. Nut 4.45	•
B985BP Pin 1.75 B985C Slide 48.25	B2019DS Lock Sc. 9.10 B2023E End Bell 30.00	B6012KL Hnd. As. 94.40 B6012KR Hnd. As. 94.40 B6013D Lock Disc 9.45	B6055AR2 R. Nut 5.00 B6055AS Spindle 84.95	BA905DP Dw. Pin .80 BA905DPL D. Pin .65
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Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
BA905DPS D. Pin 1.05 BA905E Shaft 28.35	BA930DH Head 5.55 BA930DN Nut 2.60	BA933J Valve 18.60 BA933L Valve 23.00	BH805W Hose 2.10 BH805Y Hose 2.10	D323JR Jaw 11.65 D323S Serew 7.10
BA905P Bk. Plate 1.90 BA905RA Axle 7.30	BA930DR Stud 1.05 BA930DS T. Sive. 5.95	BA933LA Arm 6.95 BA933N Plate	BZ-2RN702 Switch 38.75	D323T Sleeve 3.90 D323W Wrench 1.90
BA905RR Roller 15.60 BA905S Base Stud 2.70	BA930DT In. Rod 2.60 BA930P Ind. Plate .86	BA933P Plate 54.40 BA933PG Gasket .80	BZE6-2RN2 Micro Switch	D325 Rm. Housing \$4.26 D325P Pipe Plug75
BA905W Vee 58.70 BA905W5 B. Way 52.00	BA930R Res. Tube 1.25 BA930SF Fd. Sc 66.00	BA934 Assembly Replaced by	C21A Arbor 12.80 C21B Cone 8.70	D325PF Felt66 D327 Cover 18.65
BA905WR Roller 49.75 BA910B Sleeve75	BA930SFM F. Sc. 110.00 BA930SS Spacer 7.80	B3034 182.00 BA934B Block 7.60	C21S Spacer 2.00 C50C Cap 8.60	D327G Gasket .50 D331 Bushing 14.20
BA910R Rack 28.60 BA912C Assem. 54.00	BA930T H. D. Pit. 6.40 BA930TS Bar-Sht. 3.40	BA934C Cylinder 20.00 BA934GB Body 15.75	C51 Center 23.10 C52 Center 23.10	D333 Washer 1.30 D333G Gasket .60
BA912D40 In. Disc 15.60 BA912D50 In. Disc 29.35	BA930W Washer .60 BA930WB Bracket 1.85	BA934N Nut 5.35	C53 Center 23.10 23.10	D334 Gasket .85 D335 Collar 4.35
BA912D100 I. Disc 15.60 BA912D250 I. Disc 26.65	BA930WC Shroud 102.30	BA934PR P & R Assembly 24.85	C59A Sleeve 6.25 C59B Sleeve 8.10	D335W Sleeve 1.75 D336 Sleeve 1.30
BA912H Handwhl. 12.60 BA912K Handwhl. 53.45	BA930WH Shroud 102.30 BA930WL Shroud 76.50	BA934R Rod 7.80 BA934RBB C. Rod 9.70	C59C Sleeve 10.15 C59D Sleeve 15.15	D336L Sleeve 2.10 D337B Wm. Shaft 6.95
BA9121, Lk. Ring 5.15 BA912P Lk. Plate 7.15	BA930WS Shroud 133.00 BA930WR Shroud 55.25	BA934RK Kit 8.40 BA934T Tube 2.15	C59E Sleeve 10.15 C59F Sleeve 10.15	D337S Extension 6.45 D337R Ring .60
BA912S Stud 1.05	BA930WT Shroud 55.25 BA930W Plug .90	BA934Y Yoke 5.55 BA934YS Spacer 2.15	C60 Center Set 76.00 C60B Metal Box 9.95	D337W Washer 1.25 D340A Gear 28.30
BASIZW Spring .80	BA931A Assembly 744.00	BA937 In. Bk. As. 58.50	C114 Bushing 4.80 C116 Bushing 4.80	D340B Gear 28.30
BA913-1 Lk. Plate 2.66   BA913-2 Knd. Pin 2.60	BA931C Cover 88.66 BA931E Elbow 13.99	BA937LB Body 3.40 : BA939B Base 13.90	C117 Bushing 4.80 C118 Bushing 4.80	D344 Gear 14.26 D245A Worm 20.10
BA913-4 Knd. Pin 1.05 BA913-5 Stop Blk. 16.25	BA931F Gauge 9.30 BA931FC Cap 8.35	BA9395 Shaft II.30 BA946A Tank Rail 5.35	C119 Bushing 4.84 C120 Bushing 4.84	D148 Sp. Wesher .65
BA913-6 Mic. Sc. 13.45 BA913-7 Sw. Stop 6.36	BA931FS Stick 3.00 BA931G Guard 18.00	BA966WA Wire .80	C124 Bushing 4.80 C125P3 10MM Bu. 4.80	D848A Sp. Washer .55 D848Y Washer .86
BA913-8 Th. Sc. 3.90 BA913-9 Lock Nut 3.40	BA931GA Assem. 744.00 BA931GW Hyd. Pump	BA947B Sw. Box 27.70  BA947C Cover 12.50;	C126 Bushing 4.80 C182 Bushing 4.80	BEE APL-100 FOR WMEEL DRESSER
BA913-10 R. Wah. 6.30 BA914B Bracket 69.15	& Tank Assem. 744.00   BA931H7 Hose . 1.60	BA947CP Plug 1.05: BA947G Gasket 2.35	C130 Bushing 4.80 C130P4 Bushing 4.80	PRICES  EC8 Wire Cl25
BA914E Shaft 30.00  BA914P Ind. Plate 2.10	BA931H8 Home 2.55 BA931H15 Home 2.35	BA947H19 Conduit 2.95 BA947H23 Conduit 3.35	C132 Bushing 4.80 C134 Bushing 4.80	#ECO Counter 208.00 FA043-6-1 Count. 208.00
BA914S Saddle Feed Screw 97.00	BA931H36 Home 5.15 BA931H36 Home 5.48	BA967H24 Conduit 3.90 BA967H34 Conduit 4.25	C136 Bushing 4,80 C138 Bushing 4,80	G78L8 S0 Micross Filter 5.20
BA914WT Shroud 80.75 BA916C Collar 4.45	BA931H67 Home 4.00 BA931H76 Home 4.25	BA967J32 Conduit 6.85 BA967KB Box 30.00	C138M3 Bushing 4.80 C140 Bushing 4.80	GC5074 Pump 98.00
BA916SS Dr. Sheft with Stud 11.30	BA931H84 Home 4.50 BA931H100 Home 5.40	BA967KC Sc. Cl. 1.40 BA967W40 Wire 1.05	C141 Bushing 4.80 C142 Bushing 4.80	GC523A1GB Pump Replaced by GC5235A12RD with
BA916ST Dr. Shaft with thd., hole 10.40	BA531K Filter 17.76 BA931KB Body 7.00	BA967Y46 Wire 1.46 BA967W52 Wire 2.15	C143 Bushing 4.80 C143M3 Bushing 4.80	B1031AB Brkt. 260.00
BA916Y Str. Shaft 36.20 BA917B Brg. Blk. 11.50	BA931K( Cap 6.85 BA931KS Screen 1.05	BA967Y67 Wire 2.15 BA967X78 Wire 1.90	C144 Bushing 4.80 C146 Bushing 4.80	GP-100 Speed Control For D.C. Drive 1 H.P. 1790.00
BA917C Handwhi. 25.15 BA917D Jaw Cage 37.80	BA931KW Washer .80 BA931NA Plate 6.40	HA967Y84 Wire 3.00 BA985C Slide 47.20	C148 Bushing 4.80 C150P6 Bushing 4.80	3 H.P2540.00
BA917E Jaw Cam 16.25	BA931NG Plate 5.35 BA931P Pulley 15.75	HA985K Table 54.35 BA985WB Block 9.30	C451 Br. Cap 1.30	VALVE GUIDES  See Guide Price List
BA917G Handle 7.40	BA931PK Key .75	BA985XA Handle .85	GENERAL ELECTRIC	VALVE GUIDE DRIVERS See APL-180
BA917H Housing 40.85 BA917J Jaw Set	BA931WB Body 7.80	BA985XP R. Fix 380.00	ALL SIZES CR123-C Heaters 2 required, pair 8.35	HP11 Hose Clamp .60 HP12 Hose Clamp .75
Assembly 13.00  BA917S Fd. Sc. 160.50	BA931W6 Hose 1.50 BA931WT Tube 2.35	Saddle & Table BA985XPB R. F. 480.80	CT101BR&B2 %" 90.00	HP13 Hose Clamp .75 HP16 Hose Clamp .85
BA917W Benr. Sh. 1.05 BA919A Axle 1.75	BA931W34 Home 5.15 BA933 Assembly 354.00	Saddle, Table, & Base BA985XS Screw 1.25	2278-L1 Filter 6.00 D311 Assembly 19.20	JV5 Sw. Lever 3.70 K5C Clamp Bar 1.45
BA919D L. S. As. 5.75 BA919DS Lock Sc. 4.25	BA933BB Body 58.79 BA933BC Clp. B. 4.90	BA985ZC Collar 6.50 BA985ZH Collar 7.95	D311A Switch 2.35 : D311B Assembly 17.95	K5G Grommet .70 K5L Collar .60
BA919H Holder 3.96 BA919L Lock 11.85	BA933BG Gasket . 80 BA933BR Ring 16.85	BA985ZW Spring .85 BC7P Cr. Arm 2.95	D311BC F. Switch 15.05   D311C Cord 4.35	K5T Copper Tube .90 K5W Hose .60
BA919P Plunger 1.05 BA919S Spacer 2.15	BA933C Plate 32.36 BA933D Valve 18.60	BC7T Cr. Arm 3.80 BC8B Stand 14.75	D311J Box90 D311W Cord 3.05	K6 Water Tank 21.85 K6T Settling Tank 4.35
BA924 Nut As. 24.00 BA924M Nut. As. 24.00	BA933EH Arm 5.35 BA933G Elbow 7.80	BC9 V-Rest Pr. 18.95 BC12 Base 197.60	D312 Assembly 34,25	K7 Cover 5.80 K8 Guard 13.55
BA924M Metric 24.00 BA924NB Fd. Bar 7.00	BA933GB Body 3.00 BA933H Valve 18.60	BC22 Tails. Set 112.00	D315V Pulley 4.35	† K9 Assembly 6.45 † K10 Bottom Table 16.50
BA924W Washer .35 BA929 Trans. 122.75	BA933H12 Conduit 4.80 BA933H16 Hose 5.75	BC22L L. Tailstk. 46.00 BC22R R. Tailstk. 66.00 BC22LC Center 22.90	D321C Collar	K18A Adj. Way 12.80 K18R Rack 5.40
BA929A Cr. Arm 17.50 BA929C Cuver 32.30	BA933H18 Hose 6.85 BA933H19 Hose 6.85	BC22LCP Center . 64.95	D321N Screw 1.90  D321T Assembly 1.55	WIAG GUI
BA929CS Br. Shl. 3.40 BA929S Shaft 11.60	BA933H20 Hose 6.85 BA933H21 Hose 6.85	BC22RC Center 41.50 BC22RCP Center 69.20	D321W Washer60 D322 Base 27.25	K12B Knob 1.50
BA929Y Shaft 12.90 BA930DA Bar As. 10.40	BA933H23 P. Home 9.00 BA933H25 P. Home 9.30	BC71 Ch. Stand 41.95 BC81 Ch. Stand 47.00	D322S Motor Sad. 2.95  D323 Chuck 182.48	Kt3F Flange 4.85
BA930DB Bar 11.05 : BA930DBL L. Bar 12.60	BA933H30 Hs. ea. 10.35 BA933S32 Home 14.30	BC92 T-Wrench 4.25 BC92S Shaft 2.15	D323E Assembly 46.95 D323JL Jaw 11.65	

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
K13Y Washer76	† K109 Assembly 5.35	K204T Tank Asm. 4.18	K411L Link 1.10	K505GN Guard 8.20
+ K14G Grd. Wire65	† K111 Assembly 4.00	K208 Gward 13.55	K411P Pin .90	K506 Tank 31.50
† K14H Hanger 1.25	K112A Arm 5.15	K210S Slide 15.70	K412C Handwheel 5.70	K506H Home .90
† K14R Switch Wire 2.95	K112C Cap 1.50	K215T Stud 2.10	K412C100 Hndwhl, 19.20	K506B Slides 2.30
† K14W Motor Wire 2.35	K112H Head 5.20	K217 Assembly 2.80	K413 Spindle 24.00	K508 Wh. Guard 13.40
† K15 Top Table 25.00	K112R Washer .65	K218 Assembly 1.30	K413F Flange 5.20	K508G Gd. Splash 3.40
K15B Bushing 3.25	K112W Wrench .65	K219 Guard 11.85	K413P Pulley 9.90	K510 Table 61.00
K15P Plug65	+ K113M Motor 5.40	K231 Assembly . 37.65	K413T Pulley 9.90	K510H Hold Down 13.60
K15S Slide 15.70	K113MF Flange .85	K231B Block 5.40	K413W Washer 2.50	K510HS24 Spring .49
K15T Stud 1.90	K113P Pulley 5.40	K231K Knob 1.50	K414A Adap. Bars 3.40	K510HS31 Spring .40
K16 Tube 1.90	K1138 Screw 1.73	K321N Nut 1.30	K414B Bracket 7.10	K510P Assembly 3.20
K17 Assembly 1.30	+ K114M Assembly 92.75	K231P Pipe .80	K414P Pulley 5.40	K510PP Pin60
K17W Rbbr. Hose .75	† K114MB Assembly 92.75	K231S Shaft .90	K414R Wire 4.20	K511K Bushing 1.00
K18 Nozzle Asbly. 2.10	† K114MD Assembly 92.75	K231T Spacer .65	K414T Mtr. Pul. 6.50	K512A Arm 6.20
K18B Nozzle 2.15	† K114ME Assembly 92.75	K231V Body 2.20	K415B Bushing 1.75	K\$13 Spindle 30.00
K18C Block 7.35	† K114MJ Assembly 92.75	K231W Washer .60	K415H Hold Down 6.25	K\$14R Wire 4.20
K21 Screw .60	+ K114MK Assembly 92.75	K232 Pump Replaced	K418 Nozzle 4.95	K514T Pulley 8.15
K30 Assembly 26.45	K114P Pulley 5.40	by K432	K418W Hose75	K515 Top Table . <b>66.60</b>
K30D Nut 2.35	K114R Pad .80	† K232B Housing 4.80	K419 Guard 30.65	K515H Hold Down 4.64
K30F Screw 3.25	K114S Stud 2.20	K232C Cover .80	K419C Cap 2.80	K518B Body 4.64
K30G Sleeve 1.30	K114T Pulley 5.40	K232D Cone 2.35	K425MR Wire 4.00	K518C Collar 2.40
K30N Nut 7.50	+ K118 Table 38.75	K232E Bushing . 1.25	K430 Fd. Sc. Arm 20.00	K518K Knob 2.60
K30T Nut 1.50	K115B Bushing 3.25	K232F Stud 1.80	K430D Fork 4.50	K518KL Knob 4.45
K30U Nut .85	K115K Plug .65	K232H Housing 18.95	K430G Feed Screw 32.00	K518N Nozzle 3.40
NOTE: All "K" Part Nos. for Motors, Fields and	K115N Nut Replaced by K356N Nut 3.00	K232J Retainer .80 K232L Disc 2.80	K430S Screw . 6.45 K430W Washer 1.50	K518S Shaft 1.60 K518T Tube 4.70
Rotors are listed on back page.	K115P Assembly 2.10	K232P Pulley 5.40 K232R Impelier 6.45	K431 Assembly 37.65 K432 Pump 68.00	K519 Guard 40.30 K519U Guard 45.00
K32C Cover .65	K115S Slide 15.70  K115T Stud 1.90  K115W Stud 1.90	K232S Shaft 1.90	K432B Hose .75	K530A Nut 2.10
K32D Pipe .90		K232T Shaft 3.60	K432C Cover 5.60	K530B Bushing 16.90
K32F Stud . 1.30	K125M Pulley 9.90	K232U Plug .65	K432G Gear 7.80	K530C Wheel 15.60
K32H Housing 2.35		K232V Tube .65	K432N Pulley 6.50	K530FB Food Bar 3.80
K32P Plate 3.25 K32R Impeller 6.45	K125P Pulley 23.35 † K132 Replaced by K132X K132SX Shaft 6.05	K232W Hose .65 K232X Plug .65	K432P Pulley 6.20 K432PX Pulley 17.10	K530FS Feed Strip 1.90 K530L Lock Nut 3.20
K32W Hose65	K132X Fluid Pamp Assembly 68.00	K236 Assembly 77.55	K432R Blade65	K530N Feed Nut 14.60
K33 Assembly 29.90		K236N Nut 10.00	K432S Shaft1.90	K530S Assembly 26.00
K34 Din. Holder 3.66	Replaces K32 & K132	K2368 Shaft 6.40	K432T Shaft 3.60	K532C Cover 3.40
K35 Din. Holder . 3.25		K3058 Slide 2.20	K432W Hose	K532D Ring Cage .80
K35D Nib 12.90 + K36 Butt Grinder 89.95	K136B Assembly 29.90 K136BS Shaft 1.40 K136C Assembly 6.90	K305T Screw .75 K307 Cover .5.80	K432X Washer .60 K432Y Washer .60	K532E Bushing 1.10 K532G Gasket80
+ K36C V Blk. Clp. 5.40 K36D Depth Ga. 18.00 + K36DR Spring .75	K136C Assembly 6.90 K136CB Body 4.00 K136N Nut 8.70	K307P Pad .65 K308 Gward 13.55	K433S Spring .65 K433T Spring .65	K532H Housing 40.00 K532P Cap 1.90
K36F Assembly . 6.20	K136P Step75  K143A Armature	K309 Assembly 6.45 K313 Spindle 21.40	K434P Plug .60 K436G Guard 22.45	K532R Impeller 6.05 K532S Shaft 3.00
K36N Nut 8.60	115V and 230V 34.65  K143B Bushing 5.40	K314M Wire 4.00 K314P Pulley 9.90	K436GB Block 2.35 K436GH Hose .70	K532T Shaft 6.20 K532W Washer 25
K36W Washer 1.30	K143E Assembly 5.40 K143EB Bushing 1.50	K314R Wire 4.00 K314T Pulley 9.90	K436GP Pipe .65 K436GT Tube .80	K536A Hub 4.05 K536B Block 32.40
K38 Din. Dresser 36,20	Ki43EF Washer .65	K317W Hose	K436N Nut 1.70 K436T Tube 2.30	K536BS Stud 1.40 K536FS Mc. Shaft 7.25
+ K43 Workhead 219.60 K43AC Collar 1.50	K143ER Plunger .65	K318W Hose	K437 Lt. Fix. 17.00 K437N Spec. Nut .80	K536G Guard 24.00 K536N Mic. Nut 10.20
K43AW Washer60	K143ES Screw 1.25  K143F Field 115V and 230V 14.20	K330C Handwheel 5.65	K443 Assembly 318.00	K5368 Mic. Shaft 6.30
K43B Bearing 10.40		K332C Cover .80	K443B Bearing 11.00	K536T Tube 2.40
% Collet 82.10	K143G Assembly 17.75	K332W Hose65	K443F Wick 1.90	K536Y Spring .80
K43F Wick60	K143GS Assembly 75.00	K350 Attachment 25.70	K443G Work Wh. 17.75	K537LA Arm 13" 16.25
K43G Wheel 9.10 K43GS Assembly 38.75 K43H Housing 72.55	K143H Housing 72.55 K145HE Ext. 10.50	K350A Assembly 13.90 K350N Nut 2.90	K443GS Assembly 106.00 K443H Housing 101.40	K541A Adj. Stop 35.95 K541B Body 23.50
K43J Assembly 1.75	K143HF Plate .80	K350NL Nut 4.80	K443HB Housing 86.40	K541C Cover 21.48
K43K Washer 1.30	K143HL Gauge .80	K405CB Bracket 4.80	K443HLB Housing 128.00	K541D Air Switch 60.85
K43L Coller 2.10	K143HP Plug .80	K405G Grate .80	3/4 Collet 72.00	K541DB Body 18.29
	K143HR Ring .80	K406 Tank 15.00	K443J Plate 4.10	K541DC Connector 13.40
K43M Spring60 K43N Nut 20.75 K43P Sleeve 4.00	K143K Oil Seal 3.05	K407 Fluid Tank 28.00 K407H Hose	K443K Bushing 2.35 K443L Collar 6.50	K541DD Stop Col85 K541DK Knu. Cap 6.25
K43PL Spacer 4.35	K143KC Collar 1.75	K407S Slide 4.60	K443P Skeve 2.10	K541DP Piston 13.55
	K143N Nut 22.00	K408 Gward 12.80	K443RL Bushing 1.60	K541DR Spg. Seat 1.40
K43R Washer60	K143NS Bar . 8.00  K143NT Spring .65	K408G Guard 4.20	K443RS Bushing 1.60	K541DS Spring .35
K43S Spindle 29.90		K409G Guard 5.00	K443S Shaft 6.85	K541G Gasket .45
K43T Sleeve 14.30	K143S Spindle \$3.30	K410C Cap75	K443T Sleeve 1.90	K541GP Plug .35
K43W Washer 4.35		K410H Hold Down 4.95	K443W Worm . 6.95	K541GS Spring .45
K43X Washer60	K143W Wire 2,15	K410K Cap Screw .75	K443WS Worm,	K541MB Bracket 12.80
K43Y Gasket80	K143WC Clamp .70	K410P Spacer .75	Shaft 11.00	K541MS Spacer 1.20
K43Z Mil. Oil Cup 1.55	K150A Assembly 19.20	K410S Spring	K450A Assembly 14.30	K541P Piston As. 73.80
+ K50 Gr. Attach 25.70	K205BB Bushing75		K450CL Cone L. 3.40	K541PP Piston 12.80
† K50A Amembly 13.55	K205C Cover .80	K411 Assembly 8.20	K450CT Cone U 3.70	K\$41PS Shaft 44.85
† K105C Cover 1.90	K206 Tank 40.00	K411K Collar .90	K450S Stud 1.10	K\$41R Plunger 2.80

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
K541SN Nut 2.20	† P171 Dresser Ced. 17.10	P278 Holder 6.50	P460C Cage 3.80	R66M Ball Race 4.75
K541SS Spool 12.80	† P171P Bumper .60	P280 Attachment 39.50	P460E Shaft 8.60	R66R Ball Race 4.75
K541V V. & Speel 36.10	+ P173 Swivel Head 7.10	P281 Drum Arbor 17.95	P460G Gear . 5.20	R70M2 Adapter 54.30
K541VV Body 14.75	P173B Plug .60	P286B Blade Set 1.16	P460H Housing 12.50	R70M3 Adapter 54.30
K541W Spring .45	P173C Assembly 3.00	P287 Cleaner 4.05	P468P Pinion 5.20	R70M4 Adapter 54.20
K607 Bushing 2.15	P173CB Ball .60	P287B Blade Set 1.50	P468S Oil Plug I.00	R510C Guide Only 51.70
B623 Bushing 2.15	P173CD Collar .55	P288 Cleaner 5.55	P462B Shaft 8.45	R510CB Rase 17.00
K717 Bushing 2.20	P173S Spring .60	P289B Bløde Set 1.76	P462E Shaft 8.66	R510CH Sw. Head 15.00
K725 Bushing 2.20	† P174 Con. Link .85	P296 Cleaner 5.55	P462G Gear 5.20	R510CS U. Swivel 22.00
K729 Bushing 2.20	† P175 Handle .85	P296B Blade Set 1.86	P462P Pinion 5.20	R510CW S. Wash. 2.10
K743 Bushing 2.26	+ P176 Plunger 5.00	P291 Cleaner 5.55	P522A Armature 61.35	R710CA Arm 5.60
K748 Bushing 2.20	P176B Plug .60	P300BC Clamp 2.35	P522AS Shaft 29.00	R710CB Column . 17.00
K792 Bushing 2.20	P176S Spring .60	P300BP1 Pin .85	P522E Assembly 2.80	R2944 Spring .45
K810 Bushing 2.20	P178N Sleeve 1.55	P300BP2 Pin .85	P522F Field, 115V 20.00	R3838 Brush, ea. 1.20
K832 Pump 68.00	P178S Spring .60	P321 Screw	P522F Field, 230V 22.90	S1B Body 10.75
K832G M. Genr .60	P179L Collar 1.23		P522GC Connector .55	S1S Screw 1.30
K832H Housing 21.60	P179S Collar 1.50	+ P322H Hdl., Hoes. 9.40	P522GR Sleeve .35	S1W Wedge 6.45
K832S Shaft 5.00	P190A Body 6.45	P322HP Plate 1.23	P522GS Sc. Jack .55	S2B Body 15.00
Kanar Imp. Shaft 7.30	P190N Hex Nut 7.16	P322R Shield 7.50	P522H Housing 33.75	SZS Screw 1.30
Bala Bushing 2.20	P190S Bushing 2.35	P322S Stud .85	P522HB Bracket 1.55	SZW Wedge 6.45
K439 Bushing 2.26	P191S Bushing 2.35	P322W Spacer .65	P522HM Housing	S234 Cylinder 147.90
K466 Bushing 2.26	P192 Nut 5.80	P350A Arm 3.80	and End Shield 12.70	S234B Bracket 20.95
Ks72 Bushing 2.26	P193 Spring .65	P350C Clamp 4.05	P522HP Plate .65	S234C Cylinder 15.15
Ks37 Bushing 2.20	P193HD Spring .65	P350H Collar 2.35	P522HW Washer .75	S234E End Cap 11.00
K960 Bushing 2.26	P194 Plunger .75	P350M Screw 1.65	P3949 Plug .60	S234GB GI. Body 12.60
K967 Bushing 2.20	P1948 Stop .60	P350N Nut .90	P3949L Br. Plug .65	S234GE Cyl. End 10.15
K975 Bushing 2.20	P195 Cover Tube 3.05	P350S Column 4.10	P5620 Washer .75	S234P Piston 5.55
K985 Bushing 2.20	P196N Nut 5,80	P350W Washer .65	P5685 Washer .65	S234PC Cap 6.30
K1000 Bushing 2.20	P197A Assembly 13.65	P350Y Washer .65	P5688 Washer .75	S234PR Piston and
K1120 Bushing 2.20	P197E Sleeve 11.65	P351S Column 4.10	P5689 Washer .65	Rod Assembly 44.75
K1129 Bushing 4.10	P197M Drive End 5.40	P360 Angle Drive 80.00	P8545 Holder 1.30 PA9815 Gr. Pump	S234R Cyl. Rod 7.36
K1135 Bushing 4.10	P197N Nut Body 5.80	P360B Shaft 15.60		S234T Cover Tube 10.40
K1169 Bushing 4.10	P197P Plate .50	P360( Bearing 1.95	Replaced by	S234TF Flange 2.70
K1224 Bushing 4.10	P197R Collar .70	P360D Bearing 1.95	GC5074 Pump 38.00	S234TT Tube 1.90
K1248 Bushing 4.10	P197T Spring .60	P360F Assembly 7.80	PKB47 Plate .60	S234TP End Plug 1.45
K1436 Bushing 4.10	P197TS Spring .60	P360FC Connector 1.55	PKB47X Baf. Plt75	S334 Creefd. Cyl. 148.00
NOTE: All "K" Part Nos. for Motors, Fields, Rotors	P197W Washer .60	P360FS Shaft 5.20	PS192L Nut 5,80	S334GB Gld. Bedy 13.40
	P197XY Ring .65	P360H Assembly 46.80	PS192S Nut 5,80	S434 Crasfd. Cyl. 148.00
are listed on back page.  KO-11 Name Plate NC	P197Y Ring .65	P360HC Clamp 15.66	PS193 Spring .60	S434PR P. & Rod 42.90
	P197Z Spring .65	P360HL Lug .90	PS194 Plunger .75	S600RC R. Clamp .85
KO-12 Name Plate NC	P211G Grommet .65	P360HT Tube 11.70	PS195 Tube 3.00	S600RL R. Clamp .85
KO-15 Plate 1.15	P211H Grommet .85	P360R Retainer .90	R5C Cover 7.90	S605BP Bracket 2.86
KO-16 Chart .85	P211L Insulation .60	P360S Shaft 9.75	R5CW Gasket .65	S609F Caver 20.75
KO-18 Plate 1.55	P211N Assembly 4.80	P360W Washer .65	R5D Bushing .85	S609G Wh. Guard 34.90
KO-19 Off-On Plt60	P212B Housing 7.16	P361B Body 4.35	R5E Shield 23,40	S609S Splash Gd. 7.35
KO-20 Plate .75	P212C Shield 8.16	P361P Plunger 1.36	R5EP Plate 1.30	S609T Thumb Sc. 1.55
KO-22 Plate 7.50	P212D Shield 8.10	P361S Spring .65	1	S609W Thumb Sc. 1.85
KO-25 Plate 1.55	P212F Washer .63	P362 Ang. Drive 80.00		S610G Dust. Gd. 25.15
KO-30 Plate 2.30	P212G Assembly 1.90	P362B Hex Shaft 23.50	R5J Houng, & Cap 38.75	S610P Plug .85
	P212H Cover .70	P362S Ball Shaft 16.00	R5L Assembly 46.80	S610R Rack 29.40
KO-32 Plate 7.66	P212W Washer .60	P372B Base 32.50	R5M Gear 11.70	S610RG Genr . 8.00
KO-44 Plate 2.35	P213A Adapter 4.40	P372C Handle 2.35	R5P Pin .60	S610RH Rack-Hel. 29.40
KO-15 Plate 2.35 L2BZE6-2RN2 Sw. 32.00	P213D Adapter 23.60 P214 Switch Replaced by	P372D Plug .60 P372H Handle 3.15	RSW Wheel 18.15	1
L143 Switch Replaced by B590S Switch 23.40	26391N Switch 4.00 P215BH Her Dr90	P3721 Pin 1.95 P372J Spring .55	RSX Plug .55	S412-4 Bracket 51.95
Allen-Bradley Heaters Two Required	P216S Sleeve 3.00	P372K Spring .35 P372L Link 4.20	POWER DRIVE	S612-5 Bracket . 20.75 S612-6 Bk. Arm 22.00
N3 thru N33, ea. 4.15 NN1 thr. NN4, ea. 4.15	P217S Sleeve 3.00 P218S Sleeve 2.80	P372P Plunger 8.60 P372R Rod .60	ON BACK PAGE	S612-7 Bracket . 9.45 S612-7A Bracket 5.60
+ N-438 Shd. & Bah. 10.00 N-438S Shaft only 8.64	P270 Holder 10.60	P372S Head 20.86 P372T Stad 1.95	R55FP Positioner60	S612-9 Bracket 6.60
N605 Br. Hold 2.50 N-1541 Spring, en75	P272 Hinge Leaf .60	P372U Serew .60 P372V Serew 1.65	R55H Housing 32.00	S612-12 Blade Fam 60.60
O619PA Arm 9.50 O618PG Grommet 2.50	P273 Holder 10.60	P378 Pilot Assem. 18.00	R55W Wheel 11.70	S612-14 Rly. Asm. 48.56
O619PK Socket 5.00 O618PS Shade 8.00	P274R Hold Down NC	P398W Washer .40	RSSY Yoke 4.89	Box Amembly 100.50
0618PR Reflector 5.00 P61 Pilot Wrench 8.00	P275B Band 6.50 P275C Guard 5.00		RSSP PIR	S612-17 Leg. Plate 5.00 S612-19 Switch 93.35
P61B Body 3.00 P61C Stop Pin .60			R\$9R Roller 1.25 R\$2 Drive Pin .85	
P61D Disc 2.30 P61L Lock Pin .65				
P61P Plunger 1.30 P61S Spring .60		P422S Stud .56 P460B Shaft 8.33		

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
8412-23 Spacer 3.45	8612-105 Th. Was. 1.55	8625C Box Cel 412.60	S435EHR Roter	8725CB Bar 2.46
8412-24 Spacer 3.20	8612-106 Th. Was. 1.50	8625CP Cel. Cap 21.20		8725CP Col. Cal. 22.76
8612-25 Spacer 3.26	S612-111 Dr. Shaft 24.90	8425P Brass Ping .75	and Shaft 31.45	8726A Bushing 2.15
8612-27 Man. Val. 28.35	S612-112 Spacer 12.50	8425R Guide Rail 42.00	8435EN Data Pit. 1.50	8726GB Bracket 21.00
8612-27L Cyl. Bl.	S612-113 Th. Bus. 10.20	84258 Cel. 8Hde . 283.50	8435GAH Pm. A. 198.00	8726C Th. Collar 7.70
and Piping 57.20	S612-114 Ex. Sheft 22.00	8425TA Tel. Gd 4.05	440V, 3 ph., 60 cy.	8726E Shaft 10.75
8412-27R Cyl. Bi.	8612-119B Body 11.76	8425TB T. Tel. G. 3.00	8435GAHF Field 65.35	8726N Spec. Nut 1.85
and Piping 57.20	8612-119C Cap 11.20	8425TC Tel. Gd 2.50	8435GAN D. Plate 1.50	8726SF Elev. Sc. 160.00
8612-29HS Houng. 38.00	S612-119G Gasket40	8625TD Tel. Gd 1.46	S435GAHR Rotor and	87268FM Elv. Sc. 180.00
8612-30 Stop 3.45	S612-119P Pisten 3.90	8625TE Tel. Gd 3.45	Shaft 31.45	8726T Spacer 4.85
B612-31 Step 4.10	S612-119PR P. Rd. 1.96	S425W Felt Wick .75	\$435H Hensing . 49.75	8729 Trams. 176.00
S612-32 Shaft 18.95	S612-119T Tube 3.90	S426B Feed Nat 31.45		8729-2 Sta. Shaft 10.15
S612-32L Shaft 20.00   S#12-33 Extension 28.55	S612-119V V. Aam. 10.15	S626BC Pr. Cap 1.65	8425KH Pmp. As. 198.00	8729-3 Bell End 2.80
	S612-119VB V. Bd. 11.45	S626BM Feed Nut 43.86	230V, 1 ph., 60 cy.	8729-4 Shaft Asm. 22.85
86.2-34 Spacer 7.78	8612-119VS Speci 3.25	8626BP Plug 1.36	8435KHF Field 45.35	8729-5 Drive Shaft 16.40
8612-35 Nut Elev. 7.98	S612-120N N. Pl86	8626PC Fric. Cap 3.25	8435KN Data Pit. 2.70	8729-4 Spacer 18.35
S612-36 Coup. Ele. 18.00	8612-120 Vellum	S426G Gear 17.36 S426P Pinion 11.78	S435KHR Retor and	8729-7 Jaw-Male 13.55
S612-40 Spacer 5.10	Washer .25		Shaft 31 45	8728-8 Jaw-Female 18.36
8612-41 Bracket 28.35	B412-121 ld. Shaft 36.20	S626SF Elev. Sc. 150.00	S435R Impeller 21.45	8729-9 Handwheel 27.30
8612-42 Adj. Arm 12.30	S412-122 O. Shaft 42.45	S626SFM Elv. Sc. 180.00	S435S Pump Sh. 34.65	8729-10 Spring .40
8612-42 Coup. Blk. 11.85	8612-123 Pisten . 17.25	S626W Sp. Washer 1.75	8636CB Body 55.68	8729-11 Gear-Hel 18.00
8612-42D Nozzle . 89.29	8612-124 Adj. Race 18.95	S629 H. & Dh. Sh. 108.00	8636CBL Body 46.65	8729-12 H. Gear 15.60
\$412-44 Coupling 6,90 \$612-45 Coupling 7.25	8612-125 B. Clutch 38.70 S612-126 Br. Pl. 3.90	S629A Crank Arm 12.10 S629AB Handle 11.20;	8437B Boot 22.00 8437PW Washer .46 8437PX Washer .65	8736WF Shroad 133.00 8736WE Shroad 133.00
S612-46 Lock Ring 1.55 S612-47 Spec. Nut 3.65	S612-127 St. Shaft 18.20 S612-128 Key .80	8629AT Arm 10.20 8629AW Th. Wah85	8637PX Washer .65 8637RB Cl. Bar 6.40 8637RC 4.78	8731-1 Pump & 613.00
S612-48 Fluid Stop 9.26	S612-129 Flange 12.75	8629( Handwhoel 22.96	S643B Box Up. 10.48	8731-2 Pump and
S612-49 Bar 1.75	S612-130 Valve 70.55	S629I. Lock Screw 2.35	S643BL Box L. 15.60	Tank 613.00
S612-50 Win. Step 25.35 8612-51 Bracket 11.80	S612-130N N. Pl65	8629S Drive Sheft 12.60	S455AC Spray Cap 24.30	S731-3 Pump and
	S612-131 B. Plate 6.85	8629Y St. Shaft 25.20	S455CC Th. Cap   8.35	Tank 613.00
S612-51B Bracket 3.46 S612-51H Housing 2.16	S612-132 Body 16.50 S612-133 Cap 4.98	8631T Tank 72.76 S631TE End 3.45	8455CS Spindle 104.00 S455CSL Spindle 104.00	8731DU-1 Pump & 690.00
S612-52 Plate 15.66 S612-53 Plate 3.35	S612-134 Valve 18.20 S612-135 Gasket .35	8631TP Partition 6.95 8631TS Bottom	3450 R.P.M.	8731DU-2 Hy. Dup. Pump Slicer 600.00
S612-54 Kn. Nob 3.48	S612-136 St. Key 1.90	and Siden 19.16 S632B Bracket 6.46	8655H1 Quill Ply. 25.15	8731DU-3 690.00
S612-55 Plunger 3.88	S612-140 Th. St. 1.40		8655H2 Dr. Pulley 22.90	8731DU-4 690.00
S612-60 Arm As. 18.60 S612-61 Arm 10.00	S612-141 Th. St. 1.55 S612-142 Bracket 3.35	8632DC Dr. Cap 7.60 S632E Ell 3.25	2900 R.P.M. 8655H3 Quill Ply. 25.15 8655H4 Dr. Pulley 22.00	8731DU-5 690.00 8731DU-6 690.00
8612-61L Arm 12.60	S612-143 Spacer 4.90	S632G 98* Elbew 9.00	4000 R.P.M.	8731DU-7 690,00
8612-62 Brg. Shaft 1.40	S612-150N N. Plt90	S632GA Sp. Guard 5.75	S455H5 Quill Ply. 25.15	8731W Pump, Tank
8612-62A Ex. Shf. 2.85	S612-151 Flunge 14.85	S632GB Sp. Guard 6,46	8455H6 Dr. Pulley 23,50	Amembly, 550V 613.00
8612-62B Br. Hd. 1.45	S612-152 Gasket .35	S632GC Sp. Guard 7,86	4500 R.P.M.	8732GA Sp. Guard 5.75
8612-65 Step Up. 30.65 S612-66 Body 15.20	8412-153 Ex. Shaft 11.00 S412-154 Flange 74.30	S632GL Sp. Guard 27.30 S632GR Sp. Guard 27.30	8655H7 Quill Ply. 25.15 S655H8 Dr. Pulley 23.00	8722GC Sp. Guard 7.84
8612-67 Bor 2.45 S612-68 Screw 3.35	S612-155 Flange 7.60	S432GT Tube 3.00	6000 R.P.M.	9732GL Sp. Guard 27.30
	S612-156 Worm 188.45	S432H Hanger 5.15	8655H9 Quill Ply. 25.15	S733 Valve As 356.60
S612-688 Screw . 2.20 S612-70 Stop Low. 28,00	S412-157 W. Gear 100.30 S412-158 Housing 50.85	S632N Noz. Asmb. Replaced by	S655H10 Dr. Puly. 23.00 S680A Quill As. 290.40 S680AD Dust Shid. 3.40	8733A Dwell Cap 1,95 8736-5 Body, Piston
S612-76M Brkt. A. 44.85 599-297 Micro Hd. 35.00	S612-159 Sleeve 7.25 8612-165N N. Plt. 1.36	S432NB Val. Body 8.45	8480AH Q. Hous. 53.80	& Valve Asm. 222.75 8736-10 Swinging
S612-71 Body . 16.25	8612-176 Cent. Valve	S632NN Nozzle 3.65	S480 AN Spec. Nut 5.15	Arm Assm. 24.25
S612-72 Adj. Stop 35.95	Assem. 2 Spd. 335.66	S632NT Tube 1.90		8736-11 Sw. Arm 12.10
8612-73 Bracket 23.95 S612-74 Adj. Stop 39.25	S612-216 Cy. Count & Shut Off 536.40	8632NV Valve 3.25 8632TA Tank 52.00 8632TC Cover 16.80	8480AW Washer 1.90 8480AZ Wavy Spring Wesher 3.80	8736-13 Spring55
S412-75 Bracket 20,95 S412-76 Re. Screw 4.00	S612-214 Cy. Count & Total Count with Shut-Off 546.00	S632TE End 5.75	8484B Bracket 77.55 8486C Bec. Collar 50.25	8736-14 Stop 4.00 8736AB Slide Bar 14.75 8736AL Slide Bar 31.45
8612-77 Adj. Stop 13.66 8612-78 Step Spc. 2.55	S612-216 Bracket 12.90 S612-217 Bar 24.50	S632TP Partition 2.76 S632TR Partition 2.15 S632TS Btm. Sides 17.15	S480H3 Pulley 39.00 S480H4 Pulley 20.60	8736AS Screw50 8736AT Adj. Trip 8.90
S612-78 L Sp. Lg 1.75	S612-218 Bar 34.65	Canami ma h =	S480H5 Pulley 33.80	8736B Body109.45
S612-79 Stp. Body 8.80	8612-219 Cam 9.95		S481B Base 16.25	8736CC Pis., Red 23.85
8612-80 Tank Ass. 54.55 8612-81 Tank 25.80 8612-82 Bracket 8.25	S612-224B Bracket 15.40 8612D Hd. W. As. 53.45	S633 Hyd. Valve Replaced by S733 Valve 254.00	S481D Dia. Nib 14.44 S498 M. Kit 437.90	8734CD G. & Beh. 12.00 8736CG Gland 11.05
8612-83 Thd. Tube 3.00	8412D100 Ind. Dis. 20.95 8412D400 Im. Disc 28.95	8633J Con. Valve 20.95	8698HG M. Kit 447.90 8765BB Bracket 9.90	8734CP Piston 4.25 S734CW Co. Tube 7.05
8612-84 Cap 2.35	8612-D500 In. Disc. 20.95	8635AH Pamp A. 198.00	8709E Nez. As. 24.00	8736D Bracket 4.25
8612-85 Plas. Hese 2.35	8623 Conv. Kit 69.30	115V, 1 ph., 60 cy.	8709F Cover 19.05	8736E Fr. Lock 1.20
8412-95 N. Plate .65 8412-94 Flange and Brk. Assembly 26.60	8623B Mtr. Brket. 33.00 8623BA Axle 1.75	8635AHP Field 65.35 S635AN Data Pit. 1.50	8709G Wh. Guard 32.00 8710R Rack Asby. 41.60	8736EB Lock Body 2.15 8736F Block Asm. 10.50
8412-97 Bracket 10.15	S623BP Pin80	State Roter and	S710RH Rack-Hel. 41.60	8736FB C. Block 10.50
	S623BL Bk. Lower 22.00	Shaft 31.45	S710RHF H. Rack 46.80	8736FB1 C. Block 11.85
8612-100 Dr. Colr. 32.85	S623BU Bk. Upper 22.00	S635B Switch Box 6.36	8712D Hd. W. As. 53.45	8736GB Bracket 5.35
8612-101 Handle 1.75	S623BS Spring .40	S635C Cover 4.90	8712D100 In. Disc 20.95	8736GG Guard 11.05
S612-102 Fork 19.40 S612-102 Fork As. 24.90	S623S Mtr. Brket. 58.70 S623W Washer .65 S625A Guard Step 14.30	S635EH Pmp. As. 198,00 230V, 3 ph., 60 ey.	8712D400 In. Diec 20.95 8712D500 In. Diec 20.95	8736H Spec. Toe 8.60 8736K Spacer 11.60
S412-104 Axle75	8623B Lamp Brac. 5.95	SessEHF Field 65.35	S725B Bushing40	8736L Link 9.36 8736M Bracket 7.60

Part No. Price	Part No. Price	Part No. Price	Part No. Price	Part No. Price
S736N Washer60	S680D Dr. Collar 20.95	S833BN Nut 4.75	\$849BG Gasket45	8955H7 Pulley 27.70
S736PB Pawl Br. 4.75	S820E Flange 9.30	S833BS Step So. 2.35	8849C Spring Cap 2.35	S955H8 Pulley 64.00
S736PP Pawl 2.95	S820EF Gasket60	S833D Pilet Valve 22.70	8849EG Gasket40	S1029 Tram. Ac. 176.00
S736PS Pawl Sc. 1.25	S820F Flange 8.45	S833EH Con. Arm 4.25	8849M Manifold 19.85	S1029F Tram. Ac. 176.00
S736PT Pawl Stop 3.20	S820FG Gasket60	S833F C. Bl. As 11.86	8849P Piston 1.55	S1055CL Qi. As. 358.00
S736PW Pal. Ws65	S820G Flange 6.30	S833FB Cup. Blk. 10.50	8849R S. Pipe Pl. 1.55	
S736RK Repr. Kit 33.95	S820GG Gasket	S833J Cen. Valve 13.96	88498 Shaft 9.30	81055CP Pulley
S736RT Thimble NC		S833N Pl	8849T Tank 27.76	and Cap 21.20
S736SC Sp. H. W. 2.35	S820K Key	S833P P. & R. As. 58.70	2900 R.P.M.	S1055CR Ql. As. 440.00
S736SL Spacer 3.45		S833P Plate 50.20	S855H1 Quill Pul. 13.40	S1055CS Ql. As. 440.00
S736T Thumb Sc. 3.90	S820P Spacer 3.00	S833PL Off Plate 27.30	8855H2 Mtr. Pul. 15.20	S1055S1 Spindle .122.20
S736VB V. Body 267.40	S820RL Bearing 1.55	S833PR Ins. Ring 22.30	3500 R.P.M.	S1055S2 Spindle .124.55
S736VC Body Cap 3.90	S820RS Bearing 3.00	S833PU Oil Plate 23.73	S855H3 Quill Pul. 15.20	S1055S3 Spindle 128.00
S736VG Gasket .60	S820S Input Shaft 14.30	S833RS Rev. Sc. 4.00	S855H4 Mtr. Pul. 17.15	S1055T1 Spacer 29.80
S736VS Spool 16.25	S820T Washer 3.40	S833RT Rev. Sc. 2.15	4000 R.P.M.	S1425 Switch 12.50
S736VT Cp. Tube 1.75	S820W Wm. Gear 58.70	S835 Spacer 1.30	8855H5 Quill Pul. 17.15	S2030C Cover 17.00
S736W Rath. Wh. 22.55	S823S Bracket 62.30	S835W Washer99	\$855H6 Mtr. Pul. 19.00	S2036WE Shroud 210.00
S736X Alm. Wah65	S824 Fd. Nut As. 83.20	S837 Valve 204.59	4500 R.P.M.	S2035DT Dr. Trh. 36.40
S755CL L. H. Sp. 358.00	S824B Body 19.90	S837B Valve Body 28.35	S855H7 Quill Pul. 17.15	S2035T Dr. Trgh. 54.00
Replaced by	S824BT Body 27.20	S837D Cr. Fr. Sp. 18.60	S855H8 Mtr. Pul. 20.95	S2612-19 Switch 88.00
S6055CL Cp. A. 358.00 S755CC Cap 9.00	S824C Tube 9.35 S824G Gasket .45	S837G Gasket	5000 R.P.M. S855H9 Quill Pul. 17.15 S855H10 Mtr. Pul. 20.95	S2637B Boot 42.00 S2637W Window 60.00 S6055CL Quill A. 358.00
8755CN Sp. Nut 2.86	S824CH Hex. Cin. 3.40	S837L Con. Valve 18.60	5500 R.P.M.	S6055S1 Spindle117.70
8 GROOVE PULLEYS	S824M Fd. Nut 34.00	S837N N. Pl		L. H. — Slicer
FOR	S824N Feed Nut 26.00	S837P Val. Plate 65.45	S855H11 Qn. Pul. 17.15	S6055S2 Spindle .121.00
SURFACE GRINDERS	S824P Piston 5.15	S837S Speed 13.96	S855H12 Mtr. Pul. 22.90	L. H. — Surf. Grinder
3450 R.P.M. S755H1 Quill Pul. 49.30 S755H2 Drive Pul. 45.00	S824R Rail 12.10 S824RT Rail 9.70	S838 Valve 50.20 S838B Body 36.80	4000 R.P.M. S855H13 QH. Pul. 17.15 S855H14 Mtr. Pul. 32.40	S605583 Spindle 126.00 R. H. — Tool Grinder
2900 R.P.M.	S824S Spacer 2.95	S838CP Cap 4.05	S855K Key .90	S8102H Ct. Bex 1798.00
S755H3 Quill Pul. 49.30	S824T Spec. Screw .75	S838CT Thr. Cap 4.05	S881BL Base 8" 22.00	SS258-1027 Moter 312.00
S755H4 Mtr. Pul. 45.00	S824W Washer .75	S838D Tube 2.15	\$881BS Base 7" 28.35	VJ-1 Relief Valve 42.35
	S824TG Gd. Bar 8.05	S838G Gasket .45	\$881C Shide 22.00	W13 Heider 11.85
S755H5 Quill Pul. 49,30	S826TL Guard 6.90	S838P Plunger 22.70	8881D Mic. Hd. 64.35	W13A Body 4.35
S755H6 Mer. Pul. 45,00	S826TR Guard 2.70	S839 Pilot Val. 110.00	8881DC Cap 10.10	W13C Guard 1.40
4500 R.P.M.	S926TU Guard 4.86	\$839 A Slide Bar 15.60	5881DD Dial 14.20	W13D Jaw 2.70
S755H7 Quill Pul. 49.30	S129 Trans. As. 98.88	\$829 B Bracket 11.20	S881DFN Fd. Nut 17.30	W13E Handle
8755HS Mtr. Pul. 48,00	88296 Drive Shaft 3.00	\$839C Cover 8.05	S881DFS Food Sc. 7.25	W13F Spring65
	88297 Sta. Shaft 18.60	\$839D Cap 5.95	S881DH Housing 25,15	W13G Washer
8755H9 Quill Pul. 49.30	S830SF C. F. Sc. 87.00	S839E Handle 1.75	S881DN Dia. Nib 12.60	W13H Pin55
S755H10 Mtr. Pul. 45.00	S830SFM C. F. Sc. 110.00	S839F Shft. Fork. 4.75	S881F Cr. Screw 12.60	W13L Handle 4.15
No. 46 O-Ring Belt for above, 8 belts required ea. 2.70	S830SS Spacer 31.45 S831CP Plug .75	S839G Gasket .45 S839H Housing 11.30	SA81FC Cellar 3.20 S881FD Cellar 2.70	W150B9 Cover80 W150C6 Bar65
S798-1 Bracket 14.90	S831JV Pulley 11.85	S839P Plug .66	S881FS Fd. Screw 5.00	W150E Cover 14.20
S798-2L Cam 15.50	S831PV Pulley 13.65	S839R Insert Ring 15.26	S881H Head 25.15	W150N2 Name Pl. NC
S790-2R Com 17.10	SR32E EII 22.05	S839S Block As. 12.60	S881 HB Hd. Wheel 9.45	W150R1 Knob 1.55
S790-6 Stud 3.20	S832EE EIbew 14.20	S839SA Sw. Arm 2.60	S881 P Plate 4.45	W150R2 Indicator 4.35
S790-7 Fric. Whl. 11.95	S832ET Tube 1.90	S839SB Rev. Blk. 8.65	S881RB Rub. Boot 3.20	W150V1 Nut
S790-8 Spg. Hous. 4.10	S832G Dr. Tube As.	S839SC Rev. Blk. 12.90	S881S Saddle 25.15	
S790-9 Man. Asy. 24.25	\$832GR Red. Col. 8.55	S839SF Rev. Blk. 23.35	\$881WG Gib 3.20	W150V3 Bushing85
S690-9B Manifold 15.05	S832GT Tube 3.20	S839T Rev. Block 12.50	\$881WP Pin 2.20	W150V4 Nut80
S790-10 Cap 7.60	S832N Nex. As. 29.50	S839TB Rev. Blk. 9.00	\$890B W. Rack 4.25	W180F2 Panel 4.80
S790-13 Bracket 5.55	S832NA Bd. & Tb. 14.20	S839TC Rev. Blk. 12.25	\$890C Bracket 4.30	W180N5 Name Pl. NC
S790-13A Bracket	S832NB Body 8.15	S839TR Rev. Blk. 26.15	S891K Knob 2.15	W200B Assembly 24.65
S790-14 Spacer 25.50	S832T Tk. & Cov. 253.50	S839V Ret. Valve 25.15	S891S Shaft 2.55	W200F Pan. Frm. 10.75
S790-15 Spacer 2.70 S790-16L Hw. Sh. 35.00 S790-16S Hw. Sh. 23.55	S833 Valve As. 356.00 S833-20 R. H. Rev.	S839W Spacer 1.40 S840 Valve Assm. 110.00	S894B Blade 2.85 S894S Shaft 2.60	W200F2 Out. Pan. 6.45 W200N5 Name Pl. NC
S790-17 Gasket .35	Sc. & Stop Asm. 17.10	S840B Body 33.80	8894T Handle 3.00	W215 Wheel 3.35
S790-21 Cover 3.65	S833-21 R. H. Rev.	S840C End Cap 5.75	8895S Shaft 2.60	W250J Jack 1.65
S790-24 Elv. Shaft 40,90	& Stop Asms 17.10	S840G Gasket	S912D Hd. Wh 75.00	W250K Plug 2.66
S790-26 Lock Nut 47,20	S833-30 L. H. Rev.		S931JV Dup. Pul. 10.20	W250R Amembly 6.00
S798 M. Kit 437.90 S798HG M. Kit 447.90 S812D Hd. Wh. 70.00	& Stop Asm. 17.10 S833-31 L. H. Rev. & Stop Asm. 17.10	S840P Pin	8936CS Spacer 8.65 S934CW Washer 1.45	W275N Name Pl 1.25 VALVE SEAT INSERT
S820A Axle 32.70 S820B Bushing 18.60	S833B Bd. & Ring 94,25 S833BB Bedy 62,85	S849W Washer 2.55 S849A Bracket 6.95 S849B Body 39.65	S936CBL Body 36.35 S936CNL Nut 6.95	RINGS  See Ring Table Sheet  For Prices

## NUMERICAL PARTS PRICE LIST

Part No. Price	Part No. Pric	Part No. Pri
137 Tru Are Ring	31-822 Socket & Shell 7.3	6 5M775 V-Belt 30" 4.
187 Tru Arc Ring — Integral85	32059 Terminal	9 5M800 V-Belt 31" 4.
141 (% x 1.375 x 5-16) Seal 2.10	34-007 Shade (Refacer) 5.4	5 69 A11 Cell
284 Rubber Bumper	3400X2 Street Elbow 1.7	5 69A83 Coil
285L 100 Timing Belt	36BRS-6FJ Solenoid 41.9	69 A268 Cell
240L 100 Timing Belt	3755 Oil Seal 1% x 2-7/16 x % 3.3	8 6138 Oil Seal 236 x 276 x %
952 Tachometer	31881 Terminal	• •
981W Wind. As. 25.95	35F108AA1 Capacitor 3.9	7Z Adj. Spring
1832 Prezimit Switch	31891 Terminal .4	4 ' 71A3 % Il I % 50al
1321 (21/4 x 23/4 x 3/4) Klesure 4.45	34070 Connector	a ! 7208K4 Switch (P522) (26591N) 4.
1403-1 Cover .60	3ARR3-C2N3 Relay 15.6	a † 7321K3 Switch (Replaces 21706) 4,
1610 Alemite Pitting	44E Ball for Handle on Refacer 1.4	
131-60037 Shut-Off Cock 3.20	4411-6S Swivel Coupling 3.2	
2077-2 Brush, each	4412-4-6S Male Pipe 3.2	
2278 Grommet	4810 Oil Seel 1/2 x 1 x 5/16 2.1	7610K2 Switch (C.H.) Sur. Gr 6.
G78LB 50 Micron Filter 5.20	4840 Filter 16.0	" intakt Dairen (C'Ur') Dair Att "" av.
2305A Thrust Bearing 6.90	19X4 Weatherhead Fit	
21705 Toggle Switch, replaced by	5KC48BB270 Cent. Release 21.4	* 1 1/878 DLE: LABINCAN AL SAUNTHING " 4-1
7321K3 Switch 4.70		7005 FIRST Dase
	5Z Adj. Spring .4	
2639 Worm Gear Lubricant, Qt. 1.65	55-153472G4 Cell 23.3	
2645 Sp. Can Gray Ham. Bnamel 2.50	501 Gits Oiler	898 (1% x 2-7/16 x %) Klesure 3.
2670 Spindle Off, Pt 3.25	521 Gits Oller .7	8295K7 Switch 4.
2679 1 Pint Lee Concentrate 1.40	523-60PSC Lamp 23.3	
26591N Switch (P322, P422) 4.35	599-297 Micre Head 35.1	
26593C Safety Push Button Switch	. 5266N Plug 5.8	
Replaced by 26591N 4.35	5816x6 Steel Male Connector 1.6	(For Surface Grinders ever 1 H.P.)
26BR8FJ Solenoid 35.95	5822X6 Steel Male Elbow 4.1	
26F295 or 67018 Capacitor 58.00	5828843KK8 Capaciter	
2689 Way Lube, Quart 2.10	GE No. 58264947AK3C St. Switch 10.7	## 8719370AA Start Switch
2690 Way Lube, Gallen 7.00	5852911ABi Fiber Washer4	9Z Adj. Spring
2699 Honing & Grinding Oil, Gal 3.80	5898120AA5 Brusk and Spr. 1.5	9007-AW18 Limit Switch 53.
235637 Capacitor, replaced by	5898127AF7 Brush Held. 1.9	9007-AW38 Limit Switch 56.
Mallory 8753704BJ13 10.75	58983091 Brush Cap .6	S 9452 Pilter 21.
21-S-094-0625 Self Lock, Spring .60	5M462 V-Belt (Gates) 2.8	9852-6 Fil. Element only, 25 Micron 5.
3Z Norma-Hoffman Spring .45	5M560 V-Belt 22" 3.1	
310 Belt 3.35	5M615 V-Belt 24" 3,1	9967 Plug
3431 Plug 14.15	5M670 V-Belt 26" 3,6	91252-45 Starting Switch 8.1
310 Belt 3.35 3431 Plug 14.15 3006B Knob .85 3015-A Plastic Knob 1.60	5M710 V-Belt 28" 3.6	
3015-A Plastic Knob 1.60	5M750 V-Belt 29" 3.7	64183 Light Fixture

## COMMERCIAL PARTS PRICE LIST

Ned No.	OM No.	Sice	Price	Part No.	Price	Part No.	Price
	NC 1	SEAL—366Y MA	TEDIAL	KEX — CAP SEAL — EXTE	RNAL	203-KD	
U-KI	140	36A63001 MA		PEYMAN LINE D. D.		M203PP	
		1.00 - 1.00 - 1.01		KEX6214 1-1/4 O.D. use with O-Ring No. 8214	4.80	203PP	2.40
M111	1	1/16 x 1/8 x 1/4 1/16 x 5/16 x 7/1		KEX6218 1-1/2 O.D.		204KD	1.10
8017	7	1/16 x 3/8 x 1/2	.70	use with O-Ring No. 8218	4.80	204KDD	1.80
6013	201	1/16 x 7/16 x 9/1		KEX6224 2 O.D.		M204PPC5	
			:	use with O-Ring No. 8224	4.80	MM200WICR	3,10
8014	203	1/16 x 1/2 x 5/8 1/16 x 9/16 x 11/	14 .70			: 7204W	6.30
8443	2581	1/16 x 8-1/2 x 3-5		CRIRCI OY RING		9101K	
8110	8	3/32 x 3/6 x 9/16		SPIROLOX RING		101KS	
				RR-81 Internal .031W x .853 O		9103PP	3.60
8111	,	3/32 x 7/16 x 5/8	70	RR-81 Internal .031W x .853 C RR-100 Internal .037W x 1.054 C		9166PP	5.70
8116 8210	14 15	3/32 x 3/4 x 15/10 1/8 x 3/4 x 1	6 .70 j	RR-262 Internal .049W x 2.736 O		2MM9104WICRDUM (pair)*	56.60
8213	18	1/8 x 15/16 x 1-3/	14 78 1			2MM9104WICRDUM (pair)* 2MM9105WICRDUM (pair)* 105PT5DMRC (pair)* Barden	65.75
J-1-	••	1,0 1 10,10 1 1-0,		RR-275 Internal .049W x 2.865 O RR-315 Internal .061W x 3.286 O		1435 13DWKC (bent) - Benger	17.04
8214	19	1/8 x 1 x 1-1/4		RR-375 Internal .061W x 3.894 O		XX25-7Q (pair)*	60.00
8215	20	1/8 x 1-1/16 x 1-1				RMM9110PDUE6151 (pair)*	,70.00
8216	21	1/8 x 1-1/6 x 1-3/		RR-511 Internal .072W x 5.304 O		2MM9112WICRDULFS115C (pair)* OL12DT-L7A New Departure	118.44
8218 8220	23 25	1/8 x 1-1/4 x 1-1/3 1/8 x 1-3/8 x 1-5/3		RS-75 External .031W x .710 I RS-100 External .033W x .946 I		2MM9117WICDUM (pair)	224.00
		1,0 1 1-0,0 X 1-0,0		RS-125 External .043W x 1.186 I		• • • • • • • • • • • • • • • • • • • •	
8224	102	1/8 x 1-3/4 x 2				2MM9117CR	14.00
8329		2-3/8 x 2-5/8 x 1/				2MM9305WODUM (pair)* 2MM9306WODUM (pair)*	22.72
8336 2581-0	43	3/16 x 2-7/8 x 3-1/ 3-1/3 x 3-5/6 x 1	/4 1.45 1/16 1.66	BEARINGS		LS-8	3,95
				AA710-16 Oilite Bearing	.44	S\$KDD	2.60
				AA832-4 Oilite Bearing		87K	3.40
		O BING BELT		AA832-12 Oilite Bearing		R10	
		O-RING BELT	1	A2305 Thrust Bearing	1.35	87K2	3.45
No. 46		3/16 x 3-3/4 x 4-1/	70 9 70	B85 Needle	95	LL510710 Cup	6.70
		-,,,		Bill Needle		LL510749 Cone	12.45
				PSDD		13834 Cup 13889 Come	
	-		į ·	33KDD5	2.30	1300F CORE	
	Qt	JAD RING SEAL	1 :	38KD	2.30	B88 Needle	
				SSKVTD	2.50	B2420	
Q4012	Q7	1/16 x 3/8 x 1/2		PRVTD		BH1010 Needle IR061012 Inner Race	
Q421#	Q15	1/8 x 3/4 x 1		POIKTD	3.15 J	M10121 Needle	
Q4213	Q18	1/4 x 15/16 x 1-3/1		201PP-FS 59982	4.30		
Q4214	Q19	1/8 x 1 x 1-1/4	1.00	ROZKLD3	3,75	AVW549KCRDB40F8399 (B9092)	139,64
				:02KLL3		VSW549TAXID B9692 Plya Seal F/9110PP (per set)	137.00
				102NPP11	2.50	Plya Seal F/9111PP (per set)	
H	YDRA	ULIC VEE PACK		WC88016 New Departure	2.50	201PPFS59982 Teflon Seal (per set)	
				RMM203KFS125DR (mair)*	40.00		
S3-4	10V90	3/16 x 7/16 x 13/1	14 AK   1	103K5DB-30R2C (pair)*	44 44	*DU er DB Indicates 2 Beari	-

## COMMERCIAL PARTS PRICE LIST

MANY OF THESE PARTS ARE STANDARD HARDWARE ITEMS AND MANY BE PURCHASED LOCALLY

Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
PLAT HEAD MA	ACE. SCREWS	HEX CAP SCR	EW	HEX JAM 1	1	SEALS	
5-40 x 1/4 10-32 x 5/8	.15	1/4 x 1/2 U88 1/4 x 3/4 U85	98 1	1/4 USS		63-49(1/2x1x5/16) . 63-875/8x1-1/8x5/16 2x1.500x5/16 W. Seel	i.
10-33 x 1/2 10-32 x 5/3		1/4 x 1-1/4 USS 1/4 x 1-2/4 USS 5/16 x 1/2 USS 5/16 x 5/8 USS 5/16 x 3/4 USS	.35	3/8 USS	.25	43-6-/5/18-3/4-1/4\	
14-32 x 3/4		5/16 x 1/2 USS	.35	1/2 USS 1/4 SAE 5/16 SAE		(Garleck Seal)	1.70
14-32 x 1 1/4 = 5/8 SAE		5/16 x 3/4 U88		3 /8 EAR		B\$4-40-2 5/8x7/8x1/8 01W100-25-4 Treate 1	95 1.30
1/4 x 1/2 USS 1/4 x 5/8 USS 1/4 x 7/8 USS	.15			7/16 BAE 1/2 SAE 9/16 BAE			
1/4 x 7/8 USS		5/16 x 1 USS 5/16 x 1-1/4 USS 5/16 x 1-3/4 USS		5/8 SAE	.78	PIPE PITTINGS 1/8 Straight Pipe Plag	
1/4 x 1 USS 6/14 x 5/8 US4 5/16 x 1-1/4 U	.16 186	5/16 x 2-1/4 UBS 3/8 x 7/8 USS	.35	HEX NUTS	HEAVY	1/8 Pipe—88° Elbow 1/8 Close Nipple 1/2=2-1/4 Pipe Nipple	M
PILL. HD. MACI				1/4 USS (H.B.)		1/2x2-1/4 Pipe Mipple 1/8x4 Pipe Nipple	
8-32 x 1-1/8		3/6 x 1-1/4 US6 3/6 x 1-1/2 US5 3/6 x 1-1/2 US5 3/6 x 1-3/4 US6 3/6 x 2-1/2 US5	.35	1/4 USS		1/8 Socket Pipe Plag	30
16-32 x 1/4 16-32 x 3/6		3/6 x 2-1/2 U88		1/8 USS		1/4 Straight Pipe Plus 1/4 Pipe 90° Elbow	
10-32 x 1/2 10-32 x 3/8	.15	7/14 × 3/4 TIMA	25	1/2 USS		1/4x4 Pipe Nipple A6845 Shut-Off Cock	1. <b>30</b> 1.96
10-33 x 3/4		7/16 x 1-1/2 USS		1/2 USS 5/8 USS 1/4 BAE		1/2 Pipe Cup No. 1 1/8 Pipe Ping	80
10-32 x 1 10-32 x 1-1/2	15	1/4 × 1/4 RAE		3/4 SAE			
16-32 m 2 12-24 m 1/2 12-24 m 3/4 5/16 m 1/2 US 5/16 m 1-1/4 U 7/16 m 1-1/2 U		1/4 x 3/4 BAE		7/16 SAE 1/2 SAE 9/16 SAE		STREET ELL 1/8" — M Degree	
12-24 x 2/4	.15 8	1/4 x   BAS	+30	9/14 BAE		1/4" — 14 Degree	i.#
5/16 x 1-1/4 U	88	\$/16 x 1/2 SAE \$/16 x 5/8 SAE \$/16 x 7/5 SAE		S/A BAE 7/0 BAE	1.50	OILERS	
1/4 x 5/8 USS				1-40 1-13		403 Oller 3/8"	59
1/4 x 5/8 USS 1/4 x 3/4 USS 1/4 x 7/8 USS 1/4 x 1/2 SAE		3/8 x 3/4 8AB	.35	10-32 1-1/4 NC		403 Oiler 3/8" 501 Gits Oiler 1/4" 521 Gits Oiler 1/4"	
1/4 x 1/2 8AE		3/8 x 3/4 SAB 3/8 x 1-1/4 SAB 7/16 x 1-1/4 SAB 7/16 x 1-3/8 SAB	.35	•		1610 Alemite Pittinge	35
1/4 x 1-1/8 8A 1/4 x 1-1/4 8A	E •19	7/16 x 2 SAE	.35	ACORN N 8-32 (N.P.)		LIQUID TIGHT	r
RD. HEAD MAC	-	7/16 x 2-1/4 BAE	35	10-24 (N.P.)		3/4 Conn. 90°	4.35 1.55
5-40 x 1/4	.25	HEX SOCKET SET	SCREWS	CASTLE	NUT	3/4 Conn. 94° 3/4 Conn. St. 1/2 Conn. 90° 1/2 Conn. St.	1.50 1.10
6-32 x 3/8 N.P.				1/2 SAE	15	,	
6-32 x 3/4 6-32 x 3/16		5/16 x 5/16 USS (P 5/16 x 5/8 USS (Cu		SQUARE 1	NIITE	PELT 1/16 Flat White Felt	1.40
6-32 x 1/4 8-32 x 3/8 N.P	.25 .25	3/8 x 1/8 USS (Fig.		1/4 USS (N.P.)		3/16 Flat Grey Felt	1.50
8-32 x 1/2		1/10 1 4/0 COO (F		5/16 USS 7/16 USS	.10	3/16 Round Grey Felt 1/4 Round Grey Felt	35
6-32 x 1		7/16 x 7/16 USS (F	it Pt) .60	WASHE		FLAT BELTS	ı
6-32 x 2-1/4 . 16-32 x 3/16 . 16-32 x 1/4 .	.25	174 v 174 SAR (Cm	Pt.) .60	1" 0 D - 1/4".		7/8" x 22" 7/8" x 26" 1-1/4" x 22" 1-1/4" x 32" 1-1/4" x 26" 1-1/4" x 28"	4.20
10-32 x 1/4 10-32 x 5/16 (1 10-32 x 5/16 (8	Brass) .25	1/4 x 3/4 SAE 3/8 x 3/8 SAE (Con		I.D. x .015" 1/4 US5 5/16 US5		1-1/4" x 22"	4.95 4.30
19-32 X 5/16 .				5/16 USS		1-1/4" x 24"	4.45
18-12 x 1/8	.25		int)46	3/4 USS 7/16 USS		1-1/4" x 28"	1.10
10-32 x 5/8	.35	10-24 x 3/16 10-32 x 3/16 (Cup 1	.46. Point) .40	9/16 USS 1-1/4 USS		V-BELTS	
18+37 X I		18.99 - 1/9		3/16 BAE 1/4 BAE 5/16 BAE	30	3L130 (1130)	2.24
10-32 x 1-1/2 10-32 x 5-1/4		10-32 x 7/3		5/16 SAE 5/16 SAE (H.B.)		3L220 (1220)	2.20
1/4 x 3/8 USE	.25	10-32 x 1	44	' 3/8 SAE (H.B.)		3L240 (1240) 3L280 (1028) (1280)	2.21
1/4 x 5/8 USS	25		CREWS	3/8 SAE		3L300 (1020)	1.84
1/4 x 1 USS	25	14-24 9/14 (Cab I o		1/2 SAE		37.21A (1821)	3.70
OVAL HEA	D SCREWS	5/14 x 5/14 USS . 5/14 x 1/2 USS (De		6/8 SAE	.05	3L330 (1032) (1320) 4L370 (2027)	3.61
10-32 x 3/4 . 10-32 x 3/6		3/8 x 5/16 USS (Cu		No. 12 SAE	<b></b>	5M425 V-Belt	2.54
10-32 x 3/16 10-32 x 7/16		7/16 x 1/2 USS (F	lt Pt) .40	3/6 L.W.		SM487 V-Belt	7.14
10-13 x 1/2	.21	BRIGHO CET CC	REWS	LOCK WA		5M560 V-Belt 22"	3.10 3.10
		5/18 x 5/18 USS (P 5/16 x 5/16 USS (C		1/16			3.44
SOCKET HEAD		5/14 x 5/14 USS (C	n Pt) .15	8/16		5M750 V-Belt 29"	3.71
1/4 x 7/8 US3 1/4 x 1 USS 1/4 x 1-1/4 US 1/4 x 1-1/2 US 5/16 x 1/2 US 5/16 x 5/8 US 5/14 x 3/4 US			Pt) .15	7/16		5M600 V-Belt 31"	
1/4 = 1-1/2 U		SOULDE WEAD SE	T SCREW	5/8 (Shakepreef)		5/16 V-Link	sech .10
5/16 x 1/2 UE 5/16 x 5/6 UE		\$/16 x 2 USS (c.p.)		OVEN HEAD ST		STEEL BALL	
5/16 x 3/4 US 5/16 x 7/8 US	.54 RS	1 1		1/4 x 1/3 USS	A (N.P.)	1/5	
5/10 = 1 USS	88	SHEET METAL S		1/4 x 5/8 USS 1/4 x 3/4 USS 1/4 x 1-1/2 USS 5/16 x 3/4 USS		7/22	01
5/16 x 7/8 UI 5/10 x 1 USS 3/16 x 1-1/4 U 5/16 x 1-3/4 U 5/16 x 3-1/3 U	J88	3 x 3/4 Round Hone		\$/16 x 3/4 USB		4712	
5/16 x 3-1/3 U 10-32 x 3/4 1/4 x 1/2 BAI	JB8	10 x 3/4 Round He		ROUND HEAD S'		3/8 50 3/32 Steel Balls 38 5/32 Steel Balls 76 7/32 Steel Balls	1.1
1/4 x 1/2 BAI 1/4 x 5/2 BAI		SELF TAP BD. HEA	D SCREWS	1/4 x 1-1/2 US	8 (N.P.) .10	74 7/32 Steel Balle	1.0
1/4 = 5/8 8A1 1/4 = 3/4 8A1 1/4 = 7/8 8A1	E			SQ. HEAD MACI	HINE BOLTS	Bet 53 7/32 Balls Bet 39 9/32 Balls	1.10
1/4 x 1 8AF				5/14 x 3/4 USS	31	i <b> </b>	
1/4 x 1-1/2 8/	AE	4.10 - 1/1 Cad Pla		6/16 x 2-1/2 UB		MINCELLANEO 16-1 Fix. Wire (per f	
1/4 x 2 SAE 5/16 x 3/4 S/ 5/16 x 1 SAE	\B	8-32 x 1/4 Cod. Pla	ited10	HEX WR		16.1 Rubber Covered	
5/16 = 1 BAR	IAR .M	18-52 v 3/8 Cad. PI		3/32 (Across flat 1/8 (Across flat	···	No. 2 Woodraff Key	
3/16 E 1-1/6 B							10
5/16 x 2 SAE 3/8 x 1-1/2 S/				3/16 (Across fla 7/32 (Across fla 5/16 (Across fla	.14a)144 .15a)131 .15a)141	No. 13 Woodruff Ker	,i

## MOTORS AND ELECTRICAL PARTS

Part No. Price	Part No. Price	Part No. Price
TOOL GRINDER MOTORS	COOLANT PUMP ASSEMBLIES	VALVE REFACER MOTORS
B923A 1/2 HP, 115/230V, 1 Ph., 60 Cy 210.00	B935, B2035, B6035 FOR TOOL GRINDER S632 AND S732 FOR SURFACE GRINDER	K403, K403A, K403C, K500, K500C SERIES
KC30LG101 Field 52.00 KC30LG101 Rotor 24.00	S635AH 115V, 1 Phase, 60 Cycle 198.00	*KC35KG101 1725, 1/3 HP, 115V, 1 Ph., 60 Cy
	S635AHF Field 65.35 S635AHR Rotor & Shaft Assem. 31.45	*BHOOR 1725, 1/3 HP, 230V, 1 Ph., 60 Cy 72.00
3 Ph., 60 Cy 310.00	S635EH 220V, 3 Phase, 66 Cycle 198.00 S635EHF Field	*KC38NG600 1725, 1/2 HP, 115/230V, 1 Ph., 60 Cy
B923G 1/2 HP, 220/446V, 3 Ph., 40 Cy. 210.00	S635EHR Rotor & Shaft Assem. 31.45 S635GAH 440V, 3 Phase, 60 Cycle 198.00	*5XBLOOJ 1425, 1/3 HP. 115V, 1 Ph., 50 Cy
K30JG122 Field 52.00 K30JG122 Rotor 24.00	S635GAHF Field 65,35 S635GAHR Rotor & Shaft Assem. 31.45	*5XBLOOK 1425, 1/3 HP, 230V, 1 Ph., 50 Cy
B923J 1/2 HP, 386V, 3 Ph., 56 Cy 210.00 B923W 1/2 HP, 556V, 3 Ph., 60 Cy. 240.00	S635KH 220V. 1 Phase, 60 Cycle 198,00	GOVERNMENT REFACER
5K37JG396 Field 62.00 5K37JG396 Rotor 26.00	S635KHF Field 65.35 S635KHR Rotor & Shaft Assem. 31.45 S1635A 115V, 1 Phase, 60 Cycle 198.00	KC37PG646 1/3 HP, 115/230V, 1 Ph.,
	S1635AF Field 65.35 S1635AR Rotor & Shaft Assem. 31.45	60 Cy., 1725, Fungus Treated 126.60 REFACER SWITCH FOR ABOVE MODELS
B2023A 1 HP, 115/238V, 1 Ph., 60 Cy. 292.00 KC45NG1000 Fleld 94.00 KC45NG1000 Rotor 44.00	S1635E 220V. 3 Phase, 60 Cycle 198.00	21705 Switch Replaced by 7321K3 . 4.70
	S1635EF Field 65.35 S1635ER Rotor & Shaft Assem. 31.45	K103A & K303 SERIES REFACERS
3 Ph., 60 Cy 292.00	S1635GA 440V, 3 Phase, 60 Cycle 198.00 S1635GAF Field 65.35	K143 WORKHEAD
B2023G 1 HP, 208/220/440V, 3 Ph., 50/60 Cy. 292.60 Field 94.00 Rotor 44.00	S1635GAR Rotor & Shaft Assem. 31.45 S1635K 220V, 1 Phase, 60 Cycle 198.00	K143A Armature, 115V or 230V 34.65
Rotor 44.00	S1635KF Field 65.35 S1635KR Rotor & Shaft Assem. 31.45	K143F Field, 115V or 230V 14.20
B3023G 2 HP. 220/440V, 3 Ph., 60 Cy. 359.00	91252-45 Start. Switch (115V, 1 Ph.) 8.25 91252-250 Start. Switch (220V, 1 Ph.) 8.25	LARGE REFACER WORKHEAD
B3023G Z HP. 228/440V, 3 Ph., 40 Cy. 3 Ph., 40 Cy. 448NG648 Field 146.00 K48NG648 Rotor 64.00	MOTOR DRIVEN WORKHEAD	408-0424-240 Armsture 115V 34.65
B4023G 3 HP, 220/440V, 3 Ph., 60 Cy.	B943 MODELS — AVAILABLE MOTORS 1/20 H.P. MOTORS	SINGLE DIRECTION ROTATION A14 Switch Replaced by 8295K7 3.88
K49TG707 Field 156.00 K49TG707 Rotor 72.00	B943A 115V, 1 Phase, 60 Cycle 238.00 B943AF Field 115V, 1 Ph. 53.00	US MOA WALVE BEFACERS
7612K2 Switch For Above Motors 6.40	B943AR Rir., Shaft 115V, 1 Ph. 31.00	K3, K3A VALVE REFACERS
Motors With Epoxy Resin \$45.00 Extra	B943J 380V, 3 Phase, 50 Cycle 238.00 B943JF Field, 380V, 3 Phase 53.00	K43 WORKHEAD 408-0041-248 (SP3667) 230V Armature 34.65
FOR B6060 AND B6062 SERIES GRINDERS (LIGHT FIXTURE NOT INCLUDED)	B943JR Rtr., Shaft 380V, 3 Ph. 31.00 B943K 230V, 1 Phase, 60 Cycle 238.00	Single Thread 548-0143-270 (SP3667) 115V Field 11.00
B6223A 1 HP, 115/230V, 1 Ph., 60 Cy. 330.00	B943KF Field 230V, 1 Ph. 53.00 B943KR Rtr., Shaft 230V, 1 Ph. 31.00	548-0143-278 (SP3667) 230V Field 12.60
B6223B 1 HP, 208V, 3 Ph., 60/50 Cy. 339.00	B943E 230V, 3 Phase, 60 Cycle 238.00 B943EF Field 230V, 3 Ph. 53.00 B943ER Rtr., Shaft 230V, 3 Ph. 31.00	REFACER FLUID PUMPS
B6223G 1 HP, 220/440V, 3 Ph., 60/50 Cy	B943GA 440V, 3 Phase, 60 Cycle 238.00	K132X For K3, K3A, K103
B6223W 1 HP, 550V, 3 Ph., 60 Cy 330.60 B6323G 2 HP, 230/460V,	B943GAF Field 440V, 3 Ph. 53.00 B943GAR Rtr., Shaft 440V, 3 Ph. 31.00	K432 For K103A, K303, K403
3 Ph., 60 Cy. 380.00 B6423G 3 HP. 230/460V, 3 Ph., 60 Cy. 420.00	1/12 H.P. MOTORS B1043A 115V, 1 Phase, 60 Cycle 238.00	K500, K500C Series 68.00
3 Ph., 60 Cy. 420.00	B1043AF Field 115V, 1 Ph. 53.00 B1043AR Rtr., Shaft 115V, 1 Ph. 31.00	RESEATER POWER DRIVE
SURFACE GRINDER MOTORS	B1043K 230V, 1 Phase, 60 Cycle 238.00 B1043KF Field 230V, 1 Ph. 53.00	R5 MODEL
KC45NG1000 1 HP, 3450, 115/230V, 1 Ph., 60 Cy	B1043KR Rtr., Shaft 230V, 1 Ph. 31.00 B1043E 230V, 3 Phase, 60 Cycle 238.00	108-0405-210 Armature 115V, Replaced by
69922 1 HP, 3450, 208-220/440V,	B1043EF Field 230V, 3 Ph. 53.00 B1043ER Rtr., Shaft 230V, 3 Ph. 31.00	408-0424-240 Armature 115V 34.65 548-0102-278 Field 230V 12.66
K43JG3537 1 HP, 3450,	B1043GA 440V, 3 Phase, 60 Cycle 238.40 B1043GAF Field 440V, 3 Ph. 53.00	R55 MODEL
230/460V, 3 Ph., 60 Cy	B1043GAR Rir., Shf. 440V, 3 Ph. 31.00	R55 MODEL 408-0611-210 Armature 115V 34.65 318-0102-278 Field 230V 12.60
M600564 1 HP, 3450, 208/220/440V, 3 Ph., 60/50 Cy. 160.00	B2043M 115V, 1 Phuse, 50 Cycle 276.00 B2043MA Armuture 76.00 B2043MF Field 68.00	R55B MODEL
'K48SG761 2 HP, 3450, 230/460V, 3 Ph., 60 Cv. 192.00	B6043A 115V, 1 Phase, 60 Cycle 238.00	SPECIEV VOLTAGE
*K48SG761 2 HP, 3450, 230/460V, 3 Ph., 60 Cy. 192.00 *K49TG707 3 HP, 3450, 230/460V, 3 Ph., 60 Cy. 224.00	B6043AR Rir., Shaft 115V, 1 Ph. 31.00	R55A Armsture 115V 37.75 R55A Armsture 230V 37.75
7616K2 Sw. (C.H.) For 1 H.P. Motors 6.40 8320K1 Switch For Motors over 1 H.P. 12.50	B6043J 380V, 3 Phase, 50 Cycle 238.00 B6043JF Field 380V, 3 Ph. 53.00 B6043JR Rtr., Shaft 380V, 3 Ph. 31.00	R55A Armature 115V 27.75 R55A Armature 230V 27.75 R55F Field 115V 15.50 R55F Field 220V 18.45
	B6043K 230V, 1 Phase, 60 Cycle 238.00	A14 Switch Replaced by 8295K7 Switch 3.80
HYDRAULIC PUMP MOTORS SINGLE PUMP	B6043KR Rtr., Shaft 230V, 1 Ph. 31.00	CEAT COIMPED PRIVES
K33GG541 1/3 HP, 1725,	B6043E 208/230V, 3 Phase, 50/60 Cy. 238.00 B6043EF Field 230V, 3 Ph. 53.00 B6043ER Rtr., Sha{t 230V, 3 Ph. 31.00	SEAT GRINDER DRIVER
230/460V, 3 Ph., 60 Cy. 90.00 KC43KG1749 1/2 HP. 1725.	B6043GA 440V, 3 Phase, 60 Cycle 238.00	P222 MODEL
115/230V, 1 Ph., 60 Cy. 102.00 K35KG378 1/2 HP, 1725,	B6043GA 440V, 3 Phase, 60 Cycle 238.00 B6043GAF Field 440V, 3 Ph. 53.00 B6043GAR Rtr., Sh. 440V, 3 Ph. 31.00	408-9192-219 115V Armature 28.35 548-0102-278 236V Field 12.69
200V, 3 Ph., 60 Cy. 102.00 69929 1/2 HP, 1725,	1/8 H.P. MOTOR B9043E 230V, 3 Ph., 60/50 Cycle 268.00	P322 MODEL (specify voltage)
208/220/440V, 5 Ph., 60 Cy. 102.00	B898S Main Switch For Above 23.40 91252-45 Starting Switch (11\$V) 8.25	P422F Field 115V17.20
DUPLEX PUMP *KC45NG1005 3/4 HP, 1725,	91252-250 Starting Switch (230V) 8.25	P422 MODEL (specify voltage)
115/230V, 1 Ph., 60 Cy. 125.00 *K43KG3967 3/4 HP, 1725,	B643 MOTOR WORKHEAD 408-0368-270 (SP5300) Arm. 115V 33.00	P422F Field 115V
200V, 3 Ph., 60 Cy 125.00	408-0368-278 (SP5300) Arm. 230V 34.70	SWITCH FOR ABOVE MODELS 26593C Push Button Switch Replaced
K43KG2925 3/4 HP, 1725, 230/460V, 3 Ph., 60 Cy	B843 MOTOR WORKHEAD B843A Armature 115V 34.45 B843F Field 115V, 230V 11.90	by 26591N
SLICING MACHINE HYDRAULIC MOTOR	B843F Field 115V, 230V 11.90 May Also Be Used On B743	P522 MODEL (specify voltage)
*K42HG2835 1/2 HP, 1725, Totally Enclosed 230/460V, 3 Ph., 66 Cy. 136.00	B893 MOTOR WORKHEAD	P522A Armature 115V or 236V 28.66 P522F Field 115V 20.66 P522F Field 236V 22.96
*K42HG3870 1/2 HP, 1725, 200/208V, 3 Ph., 60 Cy. 125.00	B893A · Armsture 115V 33.00 B893F Field 115V 14.55	P522F Field 230V 22.90 26591N Switch For P522 4.35

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