TECHNICAL MANUAL

OPERATORS, ORGANIZATIONAL, DIRECT SUPPORT

AND

GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

TESTER, PITOT AND STATIC SYSTEM

MFR. PART NO. TPS-2550-1
MFR. PART NO. TPS-2550-2

NSN 4920-00-718-6480

Technical Manual)

No. 55-4920-378-14&P)

HEADQUARTERS

Department of the Army
Washington, DC, 10 June 1976

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To be distributed in accordance with DA Form 12-31 (qty rqr block No. 322) Organizational Maintenance Requirements for all Fixed and Rotor Wing Aircraft.

NOTE

Except for the RPSTL, this manual has not been prepared according to military specification; but, despite the limitations of its contents, the publication does provide the essential data needed to operate and maintain the equipment.

C2

CHANGE

NO. 2

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C., 28 MAY 1993

Operators, Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List)

TESTER, PITOT AND STATIC SYSTEM

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CHANGE NO.1

HEADQUARTERS
DEPARTMENT OF THE ARMY
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Operators, Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List)

TESTER, PITOT AND STATIC SYSTEM

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Introduction TM 55-4920-378-14&P

SECTION I

INTRODUCTION

1-1. GENERAL.

This handbook contains operation and maintenance instructions for the Pitot and Static Tester, TPS-2550-1 and TPS-2550-2 (See Figure 1-1) manufactured by the Aerosonic Corporation.

1-2. PURPOSE OF EQUIPMENT.

The tester is a portable, self-contained vacuum and pressure tester whose purpose is the testing of aircraft altimeters, rate of climb indicators, airspeed indicators, manifold pressure gauges and fuel pressure gauges. The tester accurately effects engine or atmospheric vacuums and pressures such as are met in the normal operation of an aircraft. The vacuums and pressures are accomplished by means of a small high speed pump capable of producing a vacuum of 29 inches of mercury and pressures up to 25 pounds per square inch.

1-3. DESCRIPTION.

The overall size of the tester is 16 9/16 inches wide by 14 9/16 inches deep by 18 inches high. This includes a removable cover which contains all the accessories and tools necessary for proper operation of the tester. With the cover removed, all of the major operating components of the tester are visible. These consist of five aircraft instruments representative of the types to be tested: two multiple function selector valves (Figure 1-1, Ref. 1 and 17), one for vacuum and one for pressure tests: four micrometer needle valves (2 and 3) used for fine or vernier control of vacuum and pressure; a power switch (4) for the pump motor, along with an indicator lamp (5) and fuses (6). At the rear of the tester are four self-sealing quick-couplings (7) for connecting air lines and a multi-terminal AN receptacle (8) for electrical connections. Along the top of the instrument is a Table (10) which gives the latest calibration corrections for the master instruments on the tester panel. Under this Table, accessible by lifting the narrow aluminum cover, are five small selector valves (9) used for self-checking of the tester master instruments during calibration and recalibration of these instruments. For convenient access to components of the tester, the main panel is hinged at the top and may be opened by turning the five Camloc fasteners (11) accessible from the front. When the main panel is opened the motor pump assembly, air-oil reservoir and the electrical power supply components are visible. In addition, the side doors and the lower front panel are hinged and secured with Camloc fasteners (11). These doors provide access to the reservoir, with its drain-refill valve and hose, and the filter sumps in the vacuum and pressure systems. The lower front panel provides access to the two vacuum (12) and three pressure (13) safety valves. The tester is designed to operate from three separate and distinct power sources.

1 . 28 Volts, d.c.

2. 115 Volts, a.c. 50-500 cycles, single-phase

3. 115 Volts, a.c. 50-500 cycles, three phase

1-4 ACCESSORES SUPPLIED WITH TEST SET.

TM 55-4920-378-14&P Introduction

Table 1-1. Accessories

ITEM	PART NUMBER	DESCRIPTION	QTY
1	12366-3	Hose Assembly V98810 (TPS-2550-1 only)	1
1	12366-4	Hose Assembly V98810 CIPS-2550-2 only)	1
2	12366-2	Hose Assembly V98810	2
4	AVEC-4-2F	Coupling Assy., Quick Disconnect V78357	1
5	AN816-4D	Union, 1/8" Pipe Thread to 1/4" Flared Tube	1
6	MS24399D3	Union, Reducer, 1/4" Flared to 3/16" Flared Tube	1
7	AN815-4D	Union, 1/4" Flared Tube to 1/4" Flared Tube	
8	AN737-TW-48	Clamp, Sleeve	1
9	A 21032	Adapter, Pitot Head V98810	1
10	A 21033	Adapter, Flush Static Port V98810	1
11	A 31203-1	Cord Assy., Power V988 10	1
12	A 31203-2	Cord Assy., Power V988 10	1
13	A 31203-3	Cord Assy., Power V988 10	1
14	A 31203-4	Cord Assy., Power V988 10	1

1-5. FORMS AND RECORDS.

Maintenance forms, records and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed DA PAM 738-751.

1-6. REPORTING OF ERRORS.

Report of errors, omissions and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028, (Recommended Changes to Publications), and forwarded direct to Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd, St. Louis, MO. 63120-1798. A reply will be furnished to you.

INTRO	DDUCTI	ON		TN	1 5	55-	-49	920) – 3	378	-14&P	
FIG.	&	PART	NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	QTY.

INDEX NO.			
1-1 1-2		SELECTOR VALVE, VACUUM STR.PATTERIN FINE METERING VALVE GRANADA VALVE & FITTING CO.	1
1-6 1-7 1-8 1-9 1-9 1-10 1-11 1-12	MS35059-22 111-3830-112 MS25237-327 313-3AG AVEN4-2F A 21030 711-222-1/8D 710-13-1/8D FORM 210 A 11805 A 11806	TAMPA, FLORIDA STR. PATTERN FINE METERING VALVE TOGGLE SWITCH (V15605) PILOT LIGHT (V72619)	4 REF 1 1 2 4 1 2 3 1 20 2 3 1
1-16 1-17	11722 82456-1	WINDOW SELECTOR VALVE, PRESSURE	1 1

LEGEND FOR FIGURE 1-1

1-3

TM 55-4920-378-14&P

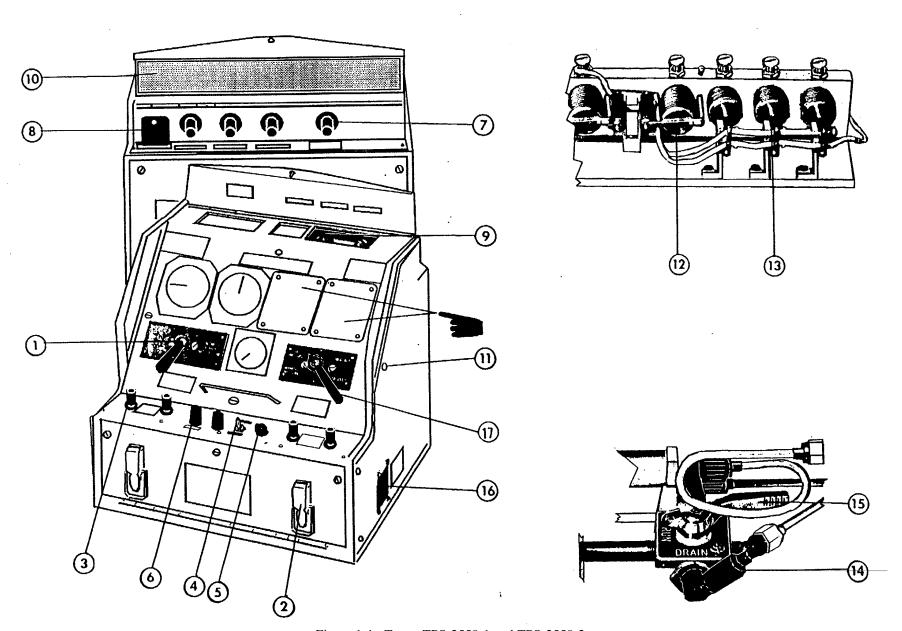


Figure 1-1. Tester TPS-2550-1 and TPS-2550-2

Operations of the Tester TM 55-4920-378-14&P

SECTION II

OPERATIONS OF THE TESTER

WARNING

Do not operate the tester unless all access panels are in place: Injury could result from the shattering of the glass reservoir or other malfunction of the tester.

2-1. GENERAL.

The tester can be utilized as a two-fold purpose:

- a. To test other indicators of equivalent pressure and vacuum.
- b. To test out the pitot static system of the aircraft.

2-2. OPERATION PROCEDURES.

To operate, the following procedures must be followed:

- a. Set the tester on a level bench or platform. Check to see that the oil level in the reservoir is at the correct height. If the oil level is not at the correct height, fill by viewing through window (Figure 1-1, Ref. 16), in accordance with maintenance procedure, paragraph 3-2. Before connecting to the desired power source be certain that the "ON/OFF" switch (4) is in the "OFF" position, control valves (2 & 3) are closed and the two sector valves (1 and 17) on the front instrument panel of the tester are in the "OFF" position. You are now ready for testing.
- b. If you are going to use pressure, then be sure at this point both the vacuum control valves (3) are opened. If you are going to use vacuum to test, be sure both the pressure control valves (2) are open. Move the selector valve (1 and 17) to the marking shown for the instrument you wish tested. Be sure that both control valves (2 & 3) of the specific selector are closed.
- c. To test a specific instrument, plug into the desired instrument outlet (7) from the rear of the case as marked and open one of the valves (9) at the top of the test set for the specific instrument you wish tested. Turn the "ON/OFF" switch (4) to "ON" which will start the pump running.
- d. Open, with a very slight turn, the "UP" valve of your selected pressure (2) or vacuum (3) and the instrument will start indicating for you. See Table 2-1. To get true readings for the instrument you are testing, set the master instrument to the corrected reading as shown on the correction card (10) for each instrument. You can proceed all the way up to the top of the scale and then return to zero by shutting off the "UP" valve and opening the "DOWN" valve. This test or method of operation can be repeated with all instruments of the type shown in Table 2-1.

It should be noted at this point, that each one of the instruments on the test panel has a safety overload and that it is impossible to damage any of the instruments by exerting too much pressure or vacuum to the specific instruments. However, it should be pointed out that a maximum reading of 5,000 feet per minute, "UP" or "DOWN", should be used on the rate of climb. The tester comes with all the necessary tubing and lines to connect directly to aircraft instruments or to connect to a pitot system or a static system. See Table 1-1. Upon completion of any and all testing, be sure that both selector valves (1 and 17) are in the "OFF" position and that both sets of valves (2&3) operating pressure and vacuum are closed.

TM 55-4920-378-14&P Operations of the Tester

Table 2-1. Instrument Test Chart

	OVERPRE	ESSURE	SYSTEM	1 LEAK	
INSTRUMENT	CHECK PO)INT	SAFETY RELIEF POINT	CHECK POINT	MAX.ALLOW- ABLE LEAK RATE PER MIN.	OPERATIONAL RATE
MANIFOLD (VAC)	10" HG	+0 HG -1"	11" HG	V4" HYG/MIN	10" EVERY 15 SEC. MAX. 10" EVERY 15 SEC. MAX. (30-20 RANGE)
AIRSPEED (PRESSURE)	400 KNOTS	+20 -0	200 KNOTS	6 KNOTTSMIN	25 SEC. MIN. FULL SCALE= 35 SEC. MAX.
DELETED					
DELETED					
ALTITUDE (35,000 FT.)	35,000 FT.	+5,000 Ft. -0000	25,000 FT.	100FT/MIN.	RATE OF CLIMB NOT TO EXCEED 5,000 FT. PER. MIN. ASCENDING OR DESCENDING.
NEGATIVE ALT.			50 FT/MIN.	50 FT/MIN.	RATE OF CLIMB NOT TO EXCEED 5,000 FT. PER. MIN. ASCENDING OR. DESCENDING

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2-2 Change 2

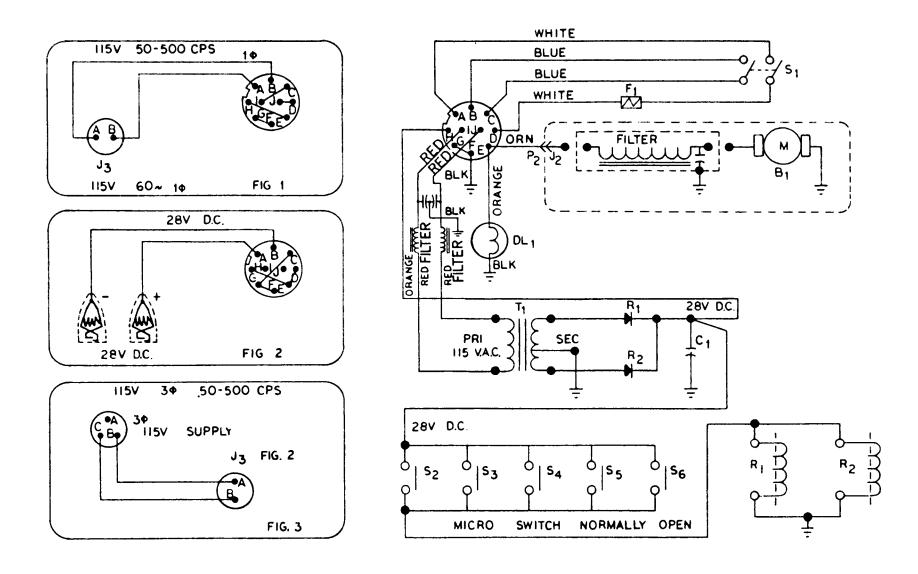


Figure 2-1. Electrical Hook-Up

2-3/(2-4 blank)

Maintenance TM 55-4920-378-14&P

SECTION III

MAINTENANCE

3-1. GENERAL.

The basic principle of the tester is the use of a vacuum pressure pump, a series of instruments, connecting lines to selector valves (Figure 1 - 1, Ref. 1 & 17) and control valves (2 & 3). The following procedures should be followed for maintenance of the test set.

3-2. OIL RESERVOIR Maintenance of the reservoir consists of servicing as follows:

- a. To fill the oil reservoir, open up the right side of the cabinet, unscrew the cap nut (14) next to the oil reservoir and adjust the indicated handle (15) so that the handle points to the word "FILL". Attach the filler hose (Table 1-1, Item 1) to the threads where you just removed the cap nut (14) and tighten securely. Place end of the filler hose in container of oil (MIL-H-5606).
- b. With the valve in the "FILL" position, the hose in the oil, open valves (3), connect electricity to desired source and turn on switch (4). You will note immediately the oil is sucked into the reservoir and you can control the amount of oil by turning off the switch when the correct limit is reached. Then disconnect the filler hose, replace the cap nut (14) on the threads of the filler valve and reset the indicating handle (15) to the "RUN" position. You are now ready for operation.

3-3. SAFETY RELIEF VALVES.

All the instruments have been pre-set with the use of safety relief or overload valves (12 & 13). The safety relief valves have been properly set at the factory to enable safe operation of these instruments even if overpressure is applied.* In the event adjustments to the safety relief valves are needed, proceed as follows:

- a. Place the instruments under pressure or vacuum, depending upon the desired instrument you wish checked, and slowly run the instrument up to its maximum reading.
- b. In the event that minor adjustments to the overload protection system are required open the lower front panel. The overpressure safety relief valves (12 & 13) are identified for vacuum or pressure and the particular instrument system they protect. Adjustment to the vacuum relief valves (12) require clockwise motion to decrease and counterclockwise motion to increase. Adjustment to the pressure relief valves (13) require counterclockwise motion to decrease and clockwise motion to increase.

3-4. INDICATORS.

The instruments are standard AN or MS type indicators and are stock units in the Army and can, therefore, be very readily replaced by disconnecting the rear fitting hose and replacing the instrument. However, in the event the instrument is to be replaced, be sure that the new instrument has a correct true calibration correction card with it or that these readings can be transferred to the Table (10) on top of the tester for future use. Fuel pressure indicator and manifold pressure indicators gauges are no longer required in testing aircraft components. Remove indicators, cap off airlines, stow electrical 'connectors and install cover plates over existing holes.

3-5. FUEL FILTER SUMPS.

The tester has also been equipped with two sumps which permit only the air to go into the instruments and, in the event there is oil in the lines, it will be trapped in these sumps. You can readily see any trapped oil since the sump itself is clear glass. If the off after months of operation gets to more than 500/0 of the total glass area, empty the sump and transfer the oil back into the reservoir. This can be done by unscrewing the bottom of the sump, removing the sump and transferring oil to the reservoir. However, when replacing the glass sump, be sure that it is securely tightened to prevent any possibility of leakage at this point. As soon as the sump is replaced retest the unit for top vacuum, using the altimeter, and top pressure, using the fuel pressure. If you do not reach the top point, it is because the gasket in the sump is not completely sealed. Tighten the bottom screw of the glass sump more.

*Does not apply to Rate of Climb - See Table 2-1.

Change 2 3-1

TM 55-4920-378-14&P Maintenance

3-6. PUMP.

There should be no problem with the electrical system nor the hoses, therefore, the remaining part of the maintenance and overhaul should be confined to inspection. If you are not getting the total amount of vacuum or pressure that is needed to give you maximum readings on both vacuum and pressure, find out whether the pump itself is at fault. Connect the pump prior to entering the sump on the vacuum and pressure line to the altimeter or fuel pressure instrument to check the correct vacuum or pressure. 29" of vacuum is necessary for the vacuum side, and a minimum of 25 pounds of pressure for the pressure side. If the pump is capable of this operation, then you have a leak some place else in the system. If the pump is incapable of this operation the pump should be replaced. However, this should not occur for a minimum of a year to two years.

Illustrated Parts Breakdown TM 55-4920-378-14&P

ILLUSTRATED PARTS BREAKDOWN

GENERAL.

This Illustrated Parts Breakdown Manual contains a Group Assembly Parts List for the Vacuum - Pressure Test Set, TPS-2550-1 and TPS-2550-2 (See figure 1.)

USABLE ON CODES.

There are two usable on codes. They are used to differentiate between TPS-2550-1 and TPS-2550-2 and thus noted as -1 and -2. The absence of a code in Usable On Code column indicates that parts so shown are usable as replacements on all models covered by this publication.

LOCATION OF PART NUMBER.

a. WHEN THE PART NUMBER IS NOT KNOWN.

- 1. Determine the application of the part required. Select the most appropriate title listed below. Note the illustration page number.
 - 2. Turn to the page indicated and locate the desired part number on the illustration.
- 3. From the illustration, obtain the index number assigned to the part desired. Refer to the accompanying description for specific information regarding the part.

Figure 1.	TPS-2550 Test Set	.IPB/3
	Cover Assembly	
Figure 3.	Accessories	.IPB/5
Figure 4.	Frame, Doors and Associated Panels and Hardware	.IPB/7
Figure 5.	Tester Assembly (Sheet 1 of 2 Sheets)	.IPB/9
Figure 5.	Tester Assembly (Sheet 2 of 2 Sheets)	.IPB/15
Figure 6.	Bellows Assembly	.IPB/18
Figure 7.	Reservoir Assembly	.IPB/20
Figure 8.	Vacuum & Pressure Line Diagram	.IPB/21

b. WHEN THE PART NUMBER IS KNOWN.

- 1. When the part number is known, refer to the Numerical Index. Locate the part number and note figure and index number assigned to the part number.
 - 2. Turn to figure number indicated and locate the index number referenced in the Numerical Index.
- 3. If a pictorial representation of the part, or its location is desired, refer to the same index number on the accompanying illustration.

SYMBOLS AND ABBREVIATIONS.

All symbols and abbreviations used in this publication were taken from MIL-STD-12, MIL-STD-15, and MIL-STD-17.

TM 55-4920-378-14&P Illustrated Parts Breakdown

FEDERAL SUPPLY CODES.

List of manufacturers supplying articles not carried under the prime contractor's, AEROSONIC CORPORATION, part numbers, together with their codes, listed in numerical sequence and taken from Cataloging Handbook H4-1 and H4-2 Federal Supply Code For Manufacturers.

06247	General Electric Company Lamp Metals and Components Dept. Cleveland, Ohio	74284	Skydyne Inc. River View Port Jervis, New York
15605	Cutler Hammer Inc. Milwaukee, Wisconsin	75255	Kem Manufacturing Co., Inc. River Road and Maple Ave. Fairlawn, New Jersey
18034	Nupro Co. 15635 Saranac	76545	Mueller Electric Co. 1756 N.E. 31st. St. Cleveland, Ohio
37942	Cleveland, Ohio 44110 P. R. Mallory Co., Inc	76599	Murray Corporation 600 East Joppa Road Towson, Maryland 21204
61349	Indianapolis, Indiana United States Gauge Division of Ametek Inc.	78357	Snap Tite 201 Titusville Road Union City, Pennsylvania
64560	Sellersville, Pennsylvania Weldon Tool Company	78553	Timmerman Products, inc. Cleveland, Ohio
	3000 Woodhill Road Cleveland, Ohio 44104	81978	Skinner Electric Valve Division of Skinner Precision Industries Inc. New Brittain, Connecticut
71286	Cam-Loc Fastener Corporation 22 Spring Valley Road Paramus, New Jersey	86768	Republic Manufacturing Co. 15655 Brookpark Road Cleveland, Ohio 44153
71400	Bussmann Manufacturing Division of McGraw-Edison Company 2538 West (University Street St. Louis, Missouri	91929	Honeywell Incorporated Micro Switch Division Freeport, Illinois
76219	Dialight Corporation Brooklyn, New York	98810	Aerosonic Corporation 1212 N. Hercules Ave. Clearwater, Florida 33517
			Allied Electronics Chicago 80, Illinois

Illustrated Parts Breakdown TM 55-4920-378-14&P

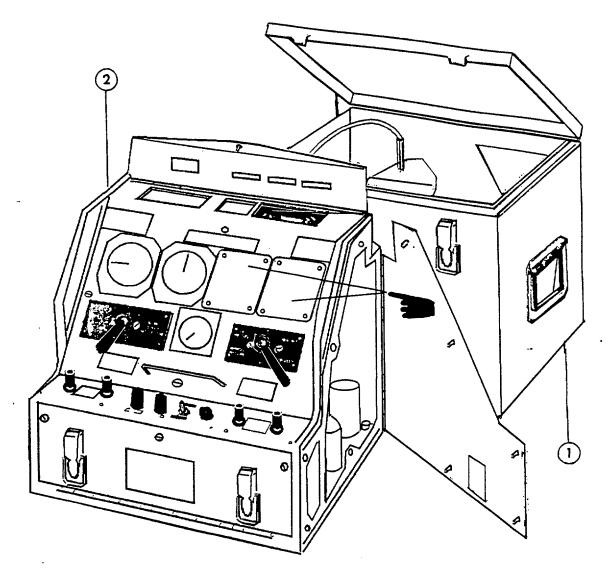


Figure 1. TPS-2550 Test Set

FIGURE &		UNITS NOMENCLATURE	USABLE PER	ON
INDEX NO.	PART NUMBER	1234 567	ASSY.	CODE
1-	TPS-2550-1	TEST SET, Vacuum-pressure (98810 part 41062)	-1	
1-	TPS-2550-2	TEST SET, Vacuum-pressure (98810 part 41135)		
-1	A31187	COVERASSEMBLY	1	
-2	41059	TESTERASSEMBLY	1	-1
-2	41134	TESTER ASSEMBLY	1	-2

Change 2 IPB/3

TM 55-4920-378-14&P Illustrated Parts Breakdown

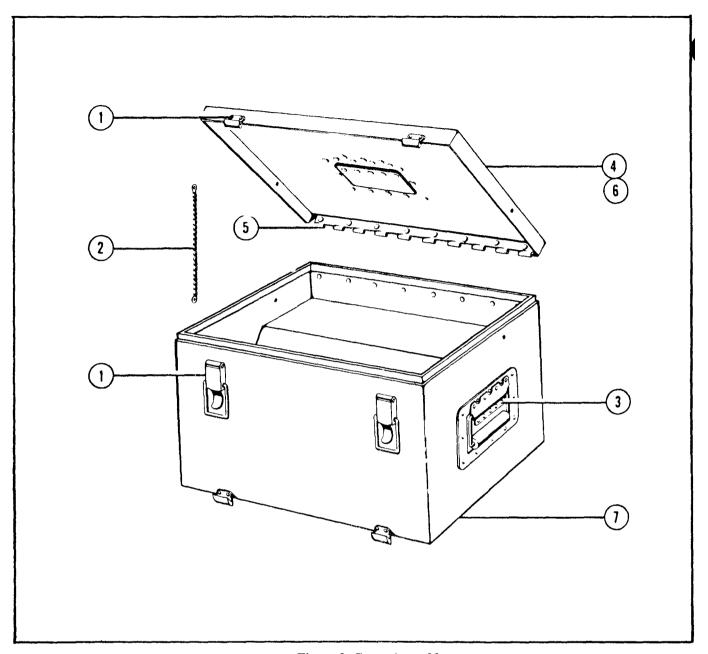


Figure 2. Cover Assembly

FIGURE & INDEX NO.	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USABLE ON CODE CODE
2-	A 31187	COVER ASSEMBL higher assembly	Y (See figure 1 for next)	REF	
-1	HC 205	 CATCH AND ST 	TRIKE ASSEMBLY		
-2	COML	•CHAIN,		1	
-3	SKMT 300		code 74284)		
-4	21333				
-5	MS 35822-3A	•HINGE, 16 in. 1g		1	
-6	SKMT 300	· · HANDLE, Sa	ame as 2-3	REF	
-7	21344	· · · · · · · · · · · · · · · · · · ·	SEMBLY		

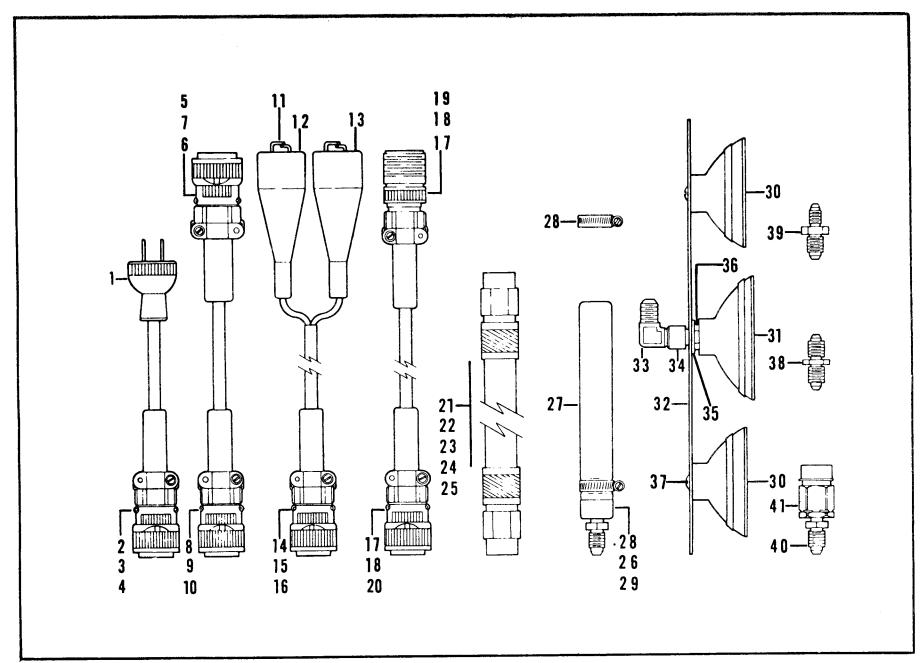


Figure 3. Accessories

TM 55-4920-378-14&P Illustrated Parts Breakdown

FIGURE &		NOMENCLATURE	UNITS PER ASSY.	USABLE ON CODE	
INDEX NO.	PART NUMBER				
	. 21202 1	ACCESSORIES (STORED IN LID)			
3-	A 31203-1	• ADAPTER, A.C. Power, 8 In. 1g	1		
-1	COML	• CONNECTOR, Plug	1		
-2	MS 3057-10A	•• CLAMP, Cable (71468)	5		
-3	18	•• BUSHING, Telescoping (71468)	5		
-4	MS 3106-A18-5S	•• CONNECTOR, Receptacle (Insert)	2		
3-	38615	• ADAPTER, 3 Phase power, 11 In. 1 g	1		
-5	MS 3106-A204P	• CONNECTOR, Plug, 4 pin	1		
-6	MS 3057-12A	•• CLAMP, Cable (71468)	1		
-7	20	•• BUSHING, Telescoping (71468)	1		
-8	MS 3057-1OA	•• CLAMP, Cable (Same as 3-2)	REF		
.9	18	•• BUSHING, Telescoping (71468)	REF		
-10	MS 3106-A18-5S	• CONNECTOR, Same as 3-4	REF		
		*			
3-	A 31203-3	• CABLE, D.C. Power, 9 ft. 1g	1		
·11	24A	•• CLIP, Alligator (76545)	2		
-12	26	•• INSULATOR, Red (76545)	1		
·13	26	•• INSULATOR, Black (76545)	1		
-14	MS 3057-10A	•• CLAMP, Cable, Same as 3-2	REF		
-15	18	•• BUSHING, Same as 3-3	REF		
-16	MS 3106A-A18-1S	•• CONNECTOR, Receptacle (Insert)	2		
3-	A 312034	• CABLE, A.C. Power, 9ft. 3 In. 1 g	1		
-17	MS 3057-10A	•• CLAMP, Cable, Same as 3-2	REF		
-18	18	•• BUSHING, Telescoping, Same as 3-3	REF		
-19	MS 3101-A18-5P	CONNECTOR, Plug	1		
-20	MS 3106-A18-1S	• CONNECTOR, Receptacle, Same as 3-16	REF		
-21	12366-2	• HOSE ASSEMBLY, 6 ft. 1	1	-1	
-22	12366-2	HOSE ASSEMBLY, 6 ft. 1g	2	-2	
-23	12366-4	HOSE ASSEMBLY, 5 ft. 1g HOSE ASSEMBLY 25 ft. 1g	1	-2	
-24	12366-3	HOSE ASSEMBLY, 25 ft. 1g	1	-1	
-25	SA 21369-1	• HOSE ASSEMBLY, 2-1/2 In. 1g -NOT USED	5		
3-	A 21032	ADAPTER Pitot head	1		
-26	A 21032-1	•• ADAPTER, Hose	1		
-27	S-73505 KH	•• HOSE	1		
-28	AN 737 TW-48	•• CLAMP, Sleeve (1 on hose, 1 loose)	2		
-29	AN 816-4D	•• UNION, 1/8 pipe to 1/4 flared tube	2		
3-	A 21033	CLAMP, Static	1		
-30	M 11191	• CUP, Suction, end	2		
-31	P 11189	• CUP, Suction, center	1		
-32	M 11192	• PLATE, Static	1		
-33	AN 822-4D	•• ELBOW, 90°, Flared tube and pipe thd	1		
-34	M 11978	• COUPLING	1		
-35	COML	•• WASHER, Flat, 29/64 Id x 3/4 od, stl, cd pl	1		
-36		-	-		
-36 -37	AN 924-4D COML	•• NUT, Hex •• SCREW, Mach, fil hd, slot, stl, cd pl,1/4-20x3/4 lg	1 2		
<i>.</i>	202	*	, -		
-38	AN 815-4D	• UNION, Flared tube, 1/4 to 1/4	2		
-39	MS 24399D3	• UNION, Reducer, 1/4 IL flared tube to 16 In flared tube	1		
-40	AN 816-4D	• NIPPLE, 1/8 pipe to 1/4 In. flared tube	REF		
-41	AVEC-4-2F	• COUPLING, Quick disconnect (Mfr. code 78357.)	1		
PB/6	Change 2				

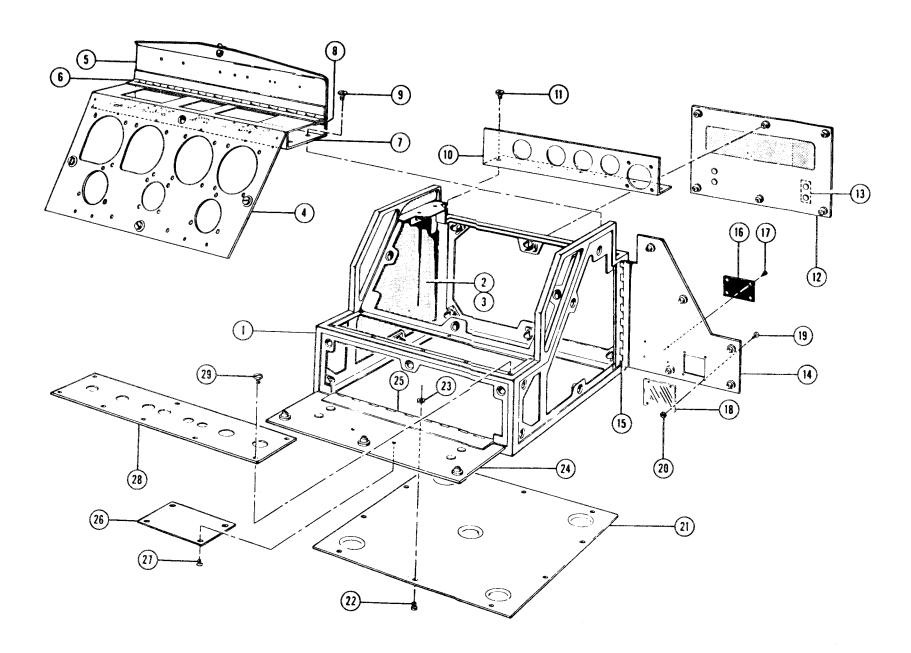


Figure 4. Frame, Doors and Associated Panels and Hardware

FIGURE & INDEX NO	PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE
4- -1 -2	P 41056 A 31181	.FRAME & DOOR ASSEMBLY WITH ASSOCIATED HARDWAREFRAMEDOOR, LEFT (ATTACHING PARTS)	1	
-3		HINGE, 13 IN. LG	1	
-4 -5	P 21325	PANEL, INSTRUMENT MOUNTING COVER, SCALE ERROR (ATTACHING PARTS)	1 1	
-6	MS 35822-3A	HINGE, 15-3/16 IN. LG	1	
-7	P 21322	MOUNTING, VALVE	1	
-8 -9	MS 35822-3A COML	(ATTACHING PARTS)HINGE, 15-3/16 IN. LGSCREW, PAN HD, SLOT, STL, CD PL, #6-32 X 3/8	1 4	
-10	P 21324	BRACKET, VALVE	1	
-11	COML	(ATTACHING PARTS)SCREW, SAME AS 4-9	2	
-12	A 31180		1	
-13	HC 205	(ATTACHING PARTS)CATCH & STRIKE ASSEMBLY (MFR. CODE 98003)	2	
-14		DOOR, RIGHT	1	
-15	MS 35822-3A	(ATTACHING PARTS)HINGE, 13 IN. LG	1	
-16	P 11303	PLATE, CAUTION RESERVOIR	1	
-17	COML	(ATTACHING PARTS)SCREW, TAP,PAN HD,SLOT,STL, CD PL, #2 TYPE B(Z) X 1/8	4	
-18	11722	WINDOW, RIGHT, SIDE	1	
-19 -20	COML COML	(ATTACHING PARTS)SCREW, MACH, PAN HD, SLOT, STL, CD PL, 4-40 X 1/4 LGNUT, HEX, DC, STL, CD PL, 4/40 X 3/32 THK 1/4	4 4	
-21	P 41061	PLATE, BOTTOM	1	
-22 -23	COML COML	(ATTACHING PARTS)SCREW, MACH, PAN HD, SLOT, STL, CD PL, 6-32 X 5/16NUT, HEX, DC, STL, CD PL, 6-32 X 7/64 THK X 5/16 IN. W.	10 10	
-24	M 21303	DOOR, FRONT	1	
-25	MS 35822-3A	(ATTACHING PART)HINGE, 15-3/16 IN. LG	1	
-26	P 19093	PLATE, IDENTIFICATIONPLATE, IDENTIFICATION (ATTACHING DARTS)	1	-1
-26		(ATTACHING TAKID)	1	-2
-27		SCREW, SAME AS 4-17	4	
-28	P21323	PANEL, CONTROL (ATTACHING PARTS)	1	
-29	COML	SCREW, SAME AS 4-9	8	

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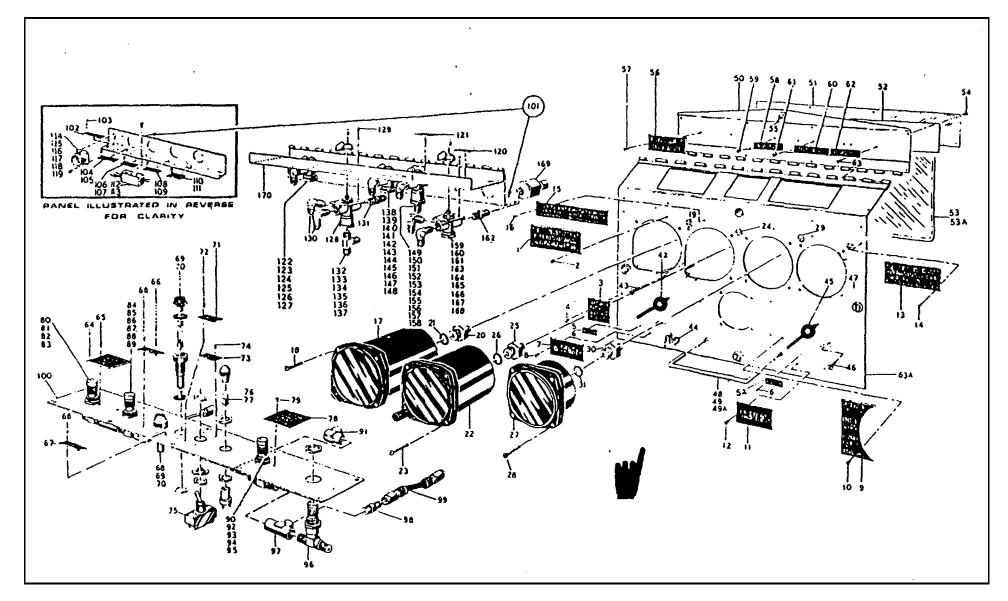


Figure 5. Tester Assembly (Sheet 1 of 2 Sheets)

			UNITS	USABLE
FIGURE & INDEX NO	PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	PER ASSY	ON
INDEX NO	PARI NUMBER		ASSI	CODE
5-	41059	.TESTER ASSEMBLY, (INST PANEL) SEE FIGURE 1-3 FOR NEXT HIGHER ASSEMBLY	REF	-1
5-	41134	.TESTER ASSEMBLY, (INST PANEL)	REF	-2
-1	P 11302	SEE FIGURE 1-3 FOR NEXT HIGHER ASSEMBLYPLATE, WARNING, RATE OF CLIMB	1	
-2	COMI	(ATTACHING PARTS)	DEE	
	COML	SCREW, TAP, PAN HD (SAME AS 4-17)	REF	
-3	P21088	PLATE, VACUUM SELECTOR VALVE (ATTACHING PARTS)	1	
-4	COML	SCREW, SAME AS 4-17	REF	
-5		PLATE, ON	1	
-5A -6	P11298-2 COML	PLATE, OFF SCREW, SAME AS 4-17	1 REF	
		·		
-7	P 11294-1	PLATE, VACUUM (ATTACHING PARTS)	1	
-8	COML	SCREW, SAME AS 4-17)	REF	
-9	P 21089	PLATE, PRESSURE SELECTOR VALVE	1	
-10	COML	(ATTACHING PARTS)SCREW, SAME AS 4-17	REF	
-11	P 11294-2	PLATE, PRESSURE	1	
		(ATTACHING PARTS)	_	
-12	COML	SCREW, SAME AS 4-17	REF	
-13	P 11304	PLATE, WARNING, SELECTOR VALVES (ATTACHING PARTS)	1	
-14	COML	SCREW, SAME AS 4-17	REF	
-15	P 11301	PLATE, CAUTION VALVES	1	
-16	COML	(ATTACHING PARTS)SCREW, SAME AS 4-17	REF	
5-	41.000	·	1	1
5- 5-	41058 41133	PANEL ASSEMBLY, INSTRUMENTPANEL ASSEMBLY, INSTRUMENT	1	-1 -2
-17	RC-60-MS	INDICATOR, RATE OF CLIMB (MFR. CODE 98810) (ATTACHING PARTS)	1	_
-18	COML	SCREW, HEX HD, BRS BLK OX, 6-32 X 1 IN. LG	18	
-19	COML	NUT, HEX, BRS BLK OX. 6-32 X 7/64 THK	18	
-20	AN 919-2D	REDUCER, FLARED TUBE, 1/4 TO 3/16	4	
-21 -22	AN 6227-6	"U" RING	4 1	-1
-22 -22	A50-MB-1A MILA27229	"O" RINGINDICATOR, ALTIMETER, (MFR. CODE 98810)INDICATOR, ALITMETER, (MFR. CODE 98810)	1	-1 -2
		(ATTACHING PARTS)	_	۷
-23	COML	SCREW, SAME AS 5-18	REF	
-24	ANT 016 2D	NUT, SAME AS 5-19	REF	
-25 -26	AN 816-3D AN 6227-6	NIPPLE, FLARED TUBE AND PIPE THD"O" RING-NOT USED-	2 1	
-20	AN 022/-0	O VING-NOI OSEN-	Τ.	

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FIGURE &		NOMENCLATURE	USABLE PER	ON
INDEX NO.	PART NUMBER	1 2 3 4 5 6 7 ASSY.	CODE	
-27	MS 28046T1	••• INDICATOR, Airspeed(ATTACHING PARTS)	1	
-28	COML	••• SCREW, Same as 5-18	REF	
-29	COML	••• NUT, Same as 5-19	REF	
-30	AN 919-2D	••• REDUCER, Same as 5-20	REF	
-31	AN 6227-6	••• "O" Ring, Same as 5-21	REF	
-32	DELETED			
-33	DELETED			
-34	DELETED			
-35	DELETED			
-36	DELETED			
-37	DELETED			
-38	DELETED			
-39	DELETED			
-40	DELETED			
-41	DELETED			
-42	AL5TSL	••• VALVE, Selector, vacuum side(ATTACHING PARTS)	1	
-43	COML	••• SCREW, Mach, fil hd, slot, stl, cd pl, 1/4-20xV12 In. 1	2	
-44	AN 822-3D	•••• ELBOW, 90, Flared tube and pipe thd	22	
-45	82456-1	••• VALVE, Selector, pressure side	1	
-46	COML	••• SCREW, Mach, fil hd, sit, stl, cd pl, 10-32xV2 In. 1	g 2	
-47	AN 822-3D	•••• ELBOW, Same as 5-44	REF	
-48	M 11172	••• HANDLE(ATTACHING PARTS)	1	
-49	COML	••• SCREW, Mach, fil hd, slot, SST, 8-32 x 1/4 In. lg.	2	
49A	MS 35337-80	••• LOCKWASHER, Split	2	
-50	P 21325	•• COVER ASSEMBLY, Valve	1	
-51	P 21304	••• COVER, Scale error, plexiglass	1	
-52	Form-210	••• CHART, Scale error, (paper)	1	
-53	Form-211	••• TABLES, Conversion, II (Nautical to Statute Miles)	1	
-53A	Form-212	••• TABLES, Conversion, III (Statute to Nautical Miles (ATTACHING PARTS)	1	
-54	COML	••• SCREW, Same as 4-9	REF	
-55	2600-3W	••• STUD ASSEMBLY, Wing head (Mfr. code 71286).	. 1	
-56	P11296	••• PLATE, Rate of Climb altimeter(ATTACHING PARTS)	2	
-57	COML	••• SCREW, Same as 4-17	REF	
-58	P 21090-2	••• PLATE, Airspeed	2	

		NOVEMBER A STATE OF	UNITS	USABLE
FIGURE & INDEX NO	PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	PER ASSY	ON CODE
INDEX NO	PARI NUMBER	1 2 3 4 5 0 7	ASSI	CODE
-59	COML	SCREW, SAME AS 4-17	REF	
-60	P 21090-4	PLATE, MANF. PRESS	2	
-61	COML	(ATTACHING PARTS)SCREW, SAME AS 4-17	REF	
01	COME	belen, bring no 1 17	TCD1	
-62	P 21090-3	PLATE, FUEL PRESSURE (ATTACHING PARTS)	2	
-63	COML	SCREW, SAME AS 4-17 PANEL, BLANK (SEE FIGURE 4-4) PANEL ASSEMBLY, (LOWER CONTROL) PLATE, VACUUM DOWN-UP (ATTACHING PARTS) SCREW, SAME AS 4-17	REF	
-63A	м 41055	PANEL. BLANK (SEE FIGURE 4-4)	REF	
-63A 5-	A 21326	PANEL ASSEMBLY, (LOWER CONTROL)	1	
-64	P 11311	PLATE, VACUUM DOWN-UP	ī	
		(ATTACHING PARTS)		
-65	COML	SCREW, SAME AS 4-17	REF	
	P11000	PLANE GRADE THE		
-66 -67	P11299	PLATE, SPARE FUSE	1 1	-2
-67	P12392	PLAIE, FUSE, 4 AMP -NOI USED-	1	-2
-68	COMI	PLATE, SPARE FUSEPLATE, FUSE, 4 AMP -NOT USED- (ATTACHING PARTS)SCREW, SAME AS 4-17	REF	
00	001.12	Tribotelly bland to 1 17	1122	
-69	313-3AG	FUSE, 4 AMP, 125 V MFR. CODE 71400 (ONE SPARE)	2	
-70	HKP	FUSEHOLDER, MFR. CODE 71400 (ONE SPARE)	2	
-71	P 11298-1	PLATE, SWITCH, ON	1	
		(ATTACHING PARTS)		
-72	COML	FUSE, 4 AMP, 125 V MFR. CODE 71400 (ONE SPARE)FUSEHOLDER, MFR. CODE 71400 (ONE SPARE)PLATE, SWITCH, ON (ATTACHING PARTS)SCREW, SAME AS 4-17PLATE, OFF, SAME AS 5-5 (ATTACHING PARTS)	REF	
-73	P 11298-2	PLATE, OFF, SAME AS 5-5	REF	
		(ATTACHING PARTS)		
-74	COML	(ATTACHING PARTS)SCREW, SAME AS 4-17	REF	
	05050 00	SWITCH ASSEMBLY, TOGGLE, MFR. CODE 15605LIGHT ASSEMBLY (MFR. CODE 72619)LAMP, INCANDESCENT, MFR. CODE 06247PLATE, PRESSURE, UP-DOWN (ATTACHING PARTS)		
-75	MS 35059-22	SWITCH ASSEMBLY, TOGGLE, MFR. CODE 15605	1	
-76	111-3830-01120-201	LIGHT ASSEMBLY (MFR. CODE 72619)	1	
-77	MS 25237-327	LAMP, INCANDESCENT, MFR. CODE 0624/	1 1	
-78	P11310	PLAIE, PRESSURE, UP-DOWN /ATTACHING DARTS/	1	
-79	COML	(ATTACHING PARTS)SCREW, SAME AS 4-17	REF	
- 19	COME	SCREW, SAME AS 4-17		
-80	B 2Mg2	VALVE ASSEMBLY, (VACUUM-DOWN) FINE ST. PATTER MFR. CODE 18034TEE, INT PIPE THDNIPPLE, FLARED TUBE AND PIPE THDHOSE ASSEMBLY, 9 IN. LG, FROM 5-80 TO 5-42VALVE ASSEMBLY, (VACUUM-UP) SAME AS 5-80ELBOW, INT PIPE THDNIPPLE, SAME AS 5-82TUBING ASSEMBLY, A1, 7 IN. LG(FROM VALVE TO SOLENOID)	4	
-81	ΔN 917-1D	TEE INT DIDE THO	3	
-82	AN 816-3D	NIDDLE FLAGEN THRE AND DIDE THD	4	
-83	21369-5	HOSE ASSEMBLY 9 IN LG FROM 5-80 TO 5-42	2	
-84	B2Mg2	VALVE ASSEMBLY (VACIUM-IIP) SAME AS 5-80	REF	
-85	AN 916-1D	ELBOW, INT PIPE THD	2	
-86	AN 816-3D	NIPPLE, SAME AS 5-82	REF	
5 –		TUBING ASSEMBLY, A1, 7 IN. LG(FROM VALVE TO		
		SOLENOID)	2	
-87	AN 818-3D	NUT, COUPLING	6	
-88	AN 819-3D	SLEEVE	6	
-89	WWT-789B	TUBING, A1, ANOD, 1/8 IN. ID X 3/16 IN. OD X 6 IN. LG	2	
-90	B2 Mg2	TUBING ASSEMBLY, A1, 7 IN. LG(FROM VALVE TO SOLENOID)NUT, COUPLINGSLEEVETUBING, A1, ANOD, 1/8 IN. ID X 3/16 IN. OD X 6 IN. LGVALVE ASSEMBLY, SAME AS 5-80 (PRESSURE-UP)	REF	

			UNITS	USABLE
FIGURE &		NOMENCLATURE 1 2 3 4 5 6 7 ELBOW, SAME AS 5-85UNION, SAME AS 5-82TUBING ASSEMBLY, SAME AS 5-86NUT, SAME AS 5-87SLEEVE, SAME AS 5-88TUBING, A1, ANOD, SAME AS 5-89 (FROM VALVE TO SOLENOID)VALVE ASSEMBLY, SAME AS 5-80 (PRESSURE-DOWN)TEE, SAME AS 5-81UNION, SAME AS 5-82HOSE ASSEMBLY, SAME AS 5-83 9 IN. LG (FROM 5-96 TO 5-45)PANEL SUBASSEMBLY, BLANK (SEE FIGURE 4-28)BRACKET, VALVEPLATE, POWER (ATTACHING PARTS)SCREW, SAME AS 4-17 PLATE, FUEL PRESSURE, SAME AS 5-62 (ATTACHING PARTS)SCREW, SAME AS 4-17	PER	ON
INDEX NO	PART NUMBER	1 2 3 4 5 6 7	ASSY	CODE
-91	AN 916-1D	ELBOW, SAME AS 5-85	REF	
-92	AN 816-3D	UNION, SAME AS 5-82	REF	
5 –		TUBING ASSEMBLY, SAME AS 5-86	REF	
-93	AN 818-3D	NUT, SAME AS 5-87	REF	
-94	AN 819-3D	SLEEVE, SAME AS 5-88	REF	
-95	WWT 789B	TUBING, A1, ANOD, SAME AS 5-89 (FROM VALVE		
		TO SOLENOID)	REF	
-96	B2Mg2	VALVE ASSEMBLY, SAME AS 5-80		
		(PRESSURE-DOWN)	REF	
-97	AN 917-1D	TEE, SAME AS 5-81	REF	
-98	AN 816-3D	UNION, SAME AS 5-82	REF	
-99	21369-5	HOSE ASSEMBLY, SAME AS 5-83		
100	D 01303	9 IN. LG (FROM 5-96 TO 5-45)	REF	
-100	P 21323 P 21325	PANEL SUBASSEMBLY, BLANK (SEE FIGURE 4-28)	REF 1	
-101	P 21325	BRACKEI, VALVE	1	
-102	P 21090-1	PLAIL, POWER	1	
_102	COMI	(ATTACHING PARTS)	REF	
-103	COME	SCREW, SAME AS 1-17	KEF	
-104	P 21090-3	PLATE, FILEL PRESSURE, SAME AS 5-62	REF	
101	1 21000 3	(ATTACHING PARTS)	1121	
-105	COMI	SCREW. SAME AS 4-17	REF	
-106	P 21090-4	PLATE, MANF. PRESS, SAME AS 5-60	REF	
		(ATTACHING PARTS)		
-107	COML	SCREW, SAME AS 4-17	REF	
-108	P 21090-2	PLATE, AIRSPEED, SAME AS 5-58	REF	
		(ATTACHING PARTS)		
-109	COML	SCREW, SAME AS 4-17	REF	
110	D 11206	BRACKET, VALVEPLATE, POWER (ATTACHING PARTS)SCREW, SAME AS 4-17PLATE, FUEL PRESSURE, SAME AS 5-62 (ATTACHING PARTS)SCREW, SAME AS 4-17PLATE, MANF. PRESS, SAME AS 5-60 (ATTACHING PARTS)SCREW, SAME AS 4-17PLATE, AIRSPEED, SAME AS 5-58 (ATTACHING PARTS)SCREW, SAME AS 4-17PLATE, RATE OF CLIMB AND ALTIMETER, SAME AS 5-56 (ATTACHING PARTS)SCREW, SAME AS 4-17	REF	
-110	P 11296	PLATE, RATE OF CLIMB AND ALTIMETER, SAME AS 5-56 (ATTACHING PARTS)	KEF	
-111		SCREW, SAME AS 4-17	REF	
111			KEL	
-112	3K2	FILTER, RF. LO-PASS, LINE	1	
	3112	(ATTACHING PARTS)	-	
-113	COML	FILTER, RF, LO-PASS, LINE (ATTACHING PARTS)SCREW, MACH, PAN HD., 6-32 X 3/8 IN. LG	2	
-114	A 21789	HARNESS, WIRING (ATTACHING PARTS)SCREW, MACH, PAN HD, SLOT, STL, CD PL, 8-32 X 1/2 IN. LGNUT, PLAIN HEX	1	
		(ATTACHING PARTS)		
-115	COML	SCREW, MACH, PAN HD, SLOT, STL, CD PL, 8-32 X 1/2 IN. LG		
-116	MS 35649-82	NUT, PLAIN HEX	4	
115			1	
-117	MS 3102-A18-1P	CONNECTOR, RECEPTACLECONNECTOR, PLUG	1	
-118	AN 3106A-10S-2S	CONNECTOR, PLUG	1	
-119	AN 3U5/-3A	DANIEL ACCEMBLY VALUE MEC	1 1	
5- -120	A 31103 D 11200	PANEL ASSEMBLI, VALVE MIG	1 5	
-120	P 11300	DIATE CLOSED	5	
-122	710-13-1/8D	CLAMP, CABLEPANEL ASSEMBLY, VALVE MTGPLATE, OPENPLATE, CLOSEDVALVE ASSEMBLY, 3 POSITION, SHORT	5	
		MFR. CODE 86768	3	
		(ATTACHING PARTS)	=	
		•		

			INITEG	HOADIE
FIGURE &		NOMENCIATURE	UNITS PER	USABLE ON
INDEX NO	PART NUMBER	1 2 3 4 5 6 7	ASSY	CODE
4.00			20	
-124	AN 822-3D	ELBOW, 90°, SAME AS 5-44	REF	
-125	AN 913	PIPE PLUG	1	
-126	21369-2	HOSE ASSEMBLY, 6 IN. LG (FROM 5-122 TO 5-22)	1	
-127	21369-5	HOSE ASSEMBLY, 9 IN. LG (FROM 5-122 TO 5-17)	1	
-128	311-222-1/8D	VALVE ASSEMBLY, 3 POSITION, LONG		
		MFR. CODE 86768	2	
		(ATTACHING PARTS)		
-129	COML	SCREW, SAME AS 5-123	REF	
-130	AN 822-3D	SCREW, PAN HD, STL, CD PL, # 6-32 X 1/4 IN. LG ELBOW, 90°, SAME AS 5-44 PIPE PLUG HOSE ASSEMBLY, 6 IN. LG (FROM 5-122 TO 5-22) HOSE ASSEMBLY, 9 IN. LG (FROM 5-122 TO 5-17) VALVE ASSEMBLY, 3 POSITION, LONG MFR. CODE 86768 (ATTACHING PARTS) SCREW, SAME AS 5-123 ELBOW, SAME AS 5-123 ELBOW, SAME AS 5-44 NIPPLE, 1/8 PIPE THDS NIPPLE, FLARED TUBE AND PIPE THDS HOSE ASSEMBLY, 3 IN. LG (FROM TEE TO VALVE) HOSE ASSEMBLY, 9 IN. LG (FROM VALVE TO ALTIMETER) HOSE ASSEMBLY, 11-1/2 IN. LG (FROM SELECTOR VALVE TO TEE) HOSE ASSEMBLY, 18 IN. LG (FROM TEE TO SELECTOR VALVE) COUPLING, QUICK DISCONNECT (MFR. CODE 78357) VALVE ASSEMBLY, SAME AS 5-122 (ATTACHING PARTS) SCREW, SAME AS 5-123 ELBOW. SAME AS 5-44	REF	
-131	AN 911-1D	NIPPLE, 1/8 PIPE THDS	3	
-132	AN 816-3D	NIPPLE, FLARED TUBE AND PIPE THDS	5	
-133	21369-1	HOSE ASSEMBLY, 3 IN. LG (FROM TEE TO VALVE)	5	
-134	21369-5	HOSE ASSEMBLY, 9 IN. LG (FROM VALVE TO ALTIMETER)	5	
-135	21369-3	HOSE ASSEMBLY, 11-1/2 IN. LG	5	
		(FROM SELECTOR VALVE TO TEE)		
-136	21369-7	HOSE ASSEMBLY, 18 IN. LG	1	
		(FROM TEE TO SELECTOR VALVE)		
-137	AVEN-4-2F	COUPLING, QUICK DISCONNECT (MFR. CODE 78357)	4	
-138	710-13-1/8D	VALVE ASSEMBLY, SAME AS 5-122	REF	
		(ATTACHING PARTS)		
-139	COML	SCREW, SAME AS 5-123	REF	
-140	AM 922 2D	ELDON CAME AC E 44	ששמ	
-140	AN 822-3D	ELBOW, SAME AS 5-44	KEF 0	
-141	AN 810-3D	NIPPLE	0	
-142	AN 615	UNION, 1/4 10 3/10, SAME AS 3-20 -NOI USED-	KEF	
-143	21309-1	SCREW, SAME AS 5-123ELBOW, SAME AS 5-44NIPPLEUNION, 1/4 TO 3/16, SAME AS 5-20 -NOT USEDHOSE ASSEMBLY, 3 IN. LG, SAME AS 5-133, (FROM VALVE TO TEE)TEE, SAME AS 5-81 -NOT USEDHOSE ASSEMBLY, 9 IN. LG, SAME AS 5-134 (FROM AIR SPEED TO VALVE)HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135 (FROM SELECTOR VALVE TO TEE)HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135 (FROM TEE TO PRESSURE SWITCH)COUPLING, QUICK DISCONNECT, SAME AS 5-137VALVE ASSEMBLY, 3 POSITION, LONG SAME AS 5-128 (ATTACHING PARTS)	KEF	
-144	AN 917-1D	TEE, SAME AS 5-81 -NOT USED-	REF	
-145	21369-5	HOSE ASSEMBLY, 9 IN. LG, SAME AS 5-134	REF	
1.46	01260 2	(FROM AIR SPEED TO VALVE)		
-146	21369-3	HOSE ASSEMBLY, II-I/Z IN. LG, SAME AS 5-135 (FROM SELECTOR VALVE TO TEE)	REF.	
-147	21369-3	HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135	REF	
		(FROM TEE TO PRESSURE SWITCH)		
-148	AVEN-4-2F	COUPLING, OUICK DISCONNECT, SAME AS 5-137	REF	
-149	711-222-1/8D	VALVE ASSEMBLY, 3 POSITION, LONG	REF	
		SAME AS 5-128		
		(ATTACHING PARTS)		
-150	COML	SCREW, SAME AS 5-123	REF	
-151	AN 822-3D	SAME AS 5-128 (ATTACHING PARTS)SCREW, SAME AS 5-123ELBOW, SAME AS 5-44NIPPLE, SAME AS 5-141HOSE ASSEMBLY, 3 IN. LG, SAME AS 5-133 (FROM VALVE TO TEE)TEEHOSE ASSEMBLY, 9 IN. LG, SAME AS 5-134 (FROM VALVE TO MANIFOLD PRESSURE)HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135 (FROM SELECTOR VALVE TO TEE)	REF	
-152	AN 816-3D	NIPPLE, SAME AS 5-141	REF	
-153	21369-1	HOSE ASSEMBLY, 3 IN. LG, SAME AS 5-133	REF	
		(FROM VALVE TO TEE)		
-154	AN 824-3D	TEE	6	
-155	21369-5	HOSE ASSEMBLY, 9 IN. LG, SAME AS 5-134	REF	
		(FROM VALVE TO MANIFOLD PRESSURE)		
-156	21369-3	HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135	REF	
		(FROM SELECTOR VALVE TO TEE)		
-157	21369-3	(FROM SELECTOR VALVE TO TEE)HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135 (FROM TEE TO PRESSURE SWITCH)	REF	
		(FROM TEE TO PRESSURE SWITCH)		

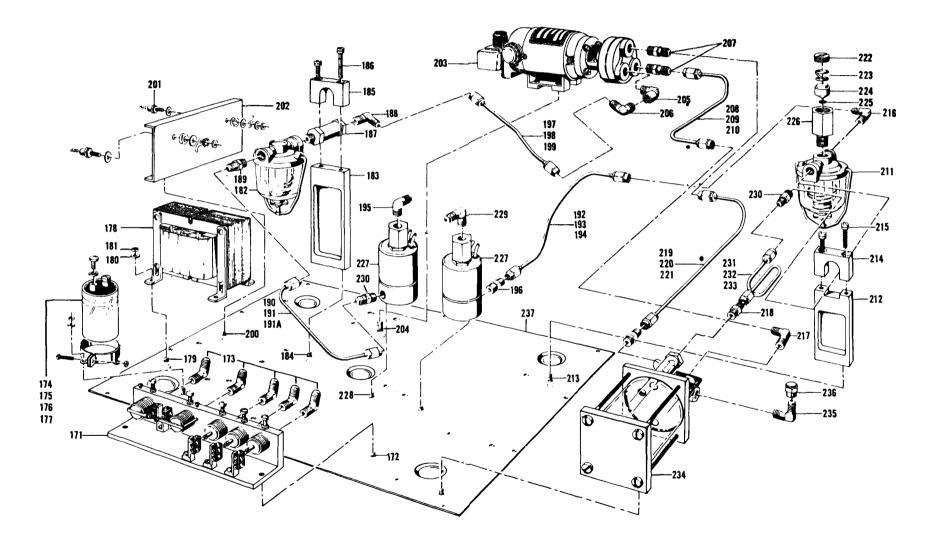


Figure 5. Tester Assembly (Sheet 2 of 2 Sheets)

			UNITS	USABLE
FIGURE &		NOMENCLATURE	PER	ON
INDEX NO	PART NUMBER	1 2 3 4 5 6 7	ASSY	CODE
		COUPLING, QUICK DISCONNECT, SAME AS 5-137 VALVE ASSEMBLY, 3 POSITION, SHORT SAME AS 5-122		
-158		COUPLING, QUICK DISCONNECT, SAME AS 5-137	REF	
-159	710-13-1/8D	VALVE ASSEMBLY, 3 POSITION, SHORT	REF	
		(ATTACHING PARTS)		
-160	COML	SCREW, SAME AS 5-123	REF	
-161	VM 833 3D	ELDOM CAME AC E 44	REF	
-162	AN 622-3D	ELBOW, SAME AS 5-44 NIPPLE, PIPE THDS	1	
-163	AN 911-1D	NIDDLE SAME AS 5_141	REF	
-164	AN 824-3D	NIPPLE, PIPE THDSNIPPLE, SAME AS 5-141TEE, SAME AS 5-154HOSE ASSEMBLY, 3 IN. LG, SAME AS 5-133 (FROM VALVE TO TEE)	REF	7
-165	21369-1	HOSE ASSEMBLY, 3 IN. LG, SAME AS 5-133		
		(FROM VALVE TO TEE)		
-166	21369-5	HOSE ASSEMBLY, 9 IN. LG, SAME AS 5-134	REF	
		(FROM VALVE TO FUEL PRESSURE)		
-167	21369-3	HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135	REF	
		(FROM SELECTOR VALVE TO TEE)		
-168	21369-3	HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135	REF	
		(FROM TEE TO PRESSURE SWITCH)		
-169	AVEN-4-2F	COUPLING, QUICK DISCONNECT, SAME AS 5-137	REF	
-170	P 21322	PANEL SUBASSEMBLY, BLANK (SEE FIGURE 4-7)	REF	
5-	A 31175	BOTTOM PLATE ASSEMBLY	1	
-171	A 21301	BELLOWS BLOCK ASSEMBLY	1	
		(SEE FIGURE O FOR DREARDOWN)		
-172	COMI.	SCREW MACH DAN HD SLOT STL CD DL	2	
		8-32 NC X 1/4 LG	_	
		HOSE ASSEMBLY, 3 IN. LG, SAME AS 5-133 (FROM VALVE TO TEE)HOSE ASSEMBLY, 9 IN. LG, SAME AS 5-134 (FROM VALVE TO FUEL PRESSURE)HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135 (FROM SELECTOR VALVE TO TEE)HOSE ASSEMBLY, 11-1/2 IN. LG, SAME AS 5-135 (FROM TEE TO PRESSURE SWITCH)COUPLING, QUICK DISCONNECT, SAME AS 5-137PANEL SUBASSEMBLY, BLANK (SEE FIGURE 4-7)BOTTOM PLATE ASSEMBLYBELLOWS BLOCK ASSEMBLY (SEE FIGURE 6 FOR BREAKDOWN) (ATTACHING PARTS)SCREW, MACH, PAN HD, SLOT, STL, CD PL, 8-32 NC X 1/4 LG		
-173	AN 823-3D	ELBOW, 45°CAPACITOR, FIXED, 800 UF, 50 WVDC	8	
-174	CG 82U50 AL	CAPACITOR, FIXED, 800 UF, 50 WVDC	1	
		(ATTACHING PARTS)	_	
-175	VR 12	CLAMP, MTG, W/HARDWARE	1	
-176	COML	SCREW, MACH, FIL HD, SLOT, STL, CD PL,	12	
-177	COML	6-32 NC X 1/4 IN. LG	2	
-1//	COML	(MFR. CODE 37942) (ATTACHING PARTS)CLAMP, MTG, W/HARDWARESCREW, MACH, FIL HD, SLOT, STL, CD PL, 6-32 NC X 1/4 IN. LGNUT, HH, DC, STL CAD PLTD 6-32 NC X 7/16 THK X 3/8W	Δ	
		0-32 NC A 7/10 1HA A 3/6W		
-178	01-0003	TRANSFORMER, STED DN. 115-22V (ATTACHING PARTS)SCREW, MACH, FIL HD, SLOT, STL, CD PL 8-32 NC X 9/16 IN. LGWASHER, FLAT	1	
170	01 0003	(ATTACHING PARTS)	_	
-179	COML	SCREW, MACH, FIL HD, SLOT, STL, CD PL	4	
		8-32 NC X 9/16 IN. LG		
-180	AN 960-8	WASHER, FLAT	4	
-181	COML	NUT, HH, STL, CD PL,	4	
		8-32 NC X 1/8 THK X 3/8 IN. W		
	000			
-182	KF-200	FILTER, FUEL (MFR. CODE 75255	1	
102	M 11261	FILTER, FUEL (MFR. CODE 75255 (ATTACHING PARTS)BRACKET, SUMP/VACUUMSCREW, SAME AS 5-176CLAMP, BRACKETSCREW, CAP, SCH, SST, BLK OX,	1	
-183 -184	M TT2PT	BRACKET, SUMP/VACUUM	I REF	
-184 -185	M 11332	OC.L.W., DANIE AD D-1/0 CI.AMD RDACKET	2	
-186	COMT.	SCREW, CAP, SCH, SST, BLK OX,	4	
100	COLIE	10-24 NC X 1 IN. LG	4	
-187	481-1/8D	VALVE, CHECK (MFR. CODE 86768) ELBOW, 90°, PIPE AND FLARED TUBE	2	
-188	AN 822-3D	ELBOW, 90°, PIPE AND FLARED TUBE	6	

			UNITS	USABLE
FIGURE &		NOMENCLATURE	PER	ON
INDEX NO	PART NUMBER	1 2 3 4 5 6 7	ASSY	CODE
-189	AN 816-3D	NIPPLE, FLARED TUBE, PIPE THD, SAME AS 5-141 TUBING ASSEMBLY, 8-1/4 IN. LG (FROM FILTER TO SOLENOID)	REF	
5-		TUBING ASSEMBLY, 8-1/4 IN. LG	1	
		(FROM FILTER TO SOLENOID)		
-190	AN 818-3D	NUT, COUPLING, SAME AS 5-87	REF	
-191	AN 819-3D	NUT, COUPLING, SAME AS 5-87SLEEVE, COUPLING, SAME AS 5-88TUBING, A1 ANOD, 8-1/4 IN. LGTUBING ASSEMBLY, A1, 8-1/4 IN. LG (FROM PUMP TO SOLENOID)	REF	
-191A	WWT-789B	TUBING, A1 ANOD, 8-1/4 IN. LG	1	
5 –		TUBING ASSEMBLY, A1, 8-1/4 IN. LG	1	
4.0.0	040 0-	(FROM PUMP TO SOLENOID)		
-192	AN 818-3D	NUT, COUPLING, SAME AS 5-87	REF	
-193	AN 819-3D	SLEEVE, SAME AS 5-88	REF	
-194	WWT-789B	TUBLING, AI ANOD	1	
-195	AN 822-3D	1/8 IN. ID X 3/16 IN. OD X 8-1/4 IN. LG	REF	
5-	AN 622-3D	TIDING ACCEMDIV A1 A-1/2 IN IC	кьг 1	
5-		(FROM CHECK WAIVE TO DIMP)	1	
-196	AN 816-3D	NIPPLE, SAME AS 5-141	REF	
-197	AN 819-3D	SLEEVE, SAME AS 5-88	REF	
-198	WWT-789B	TIBING. SAME AS 5-194 . 4-1/2	1	
-199	AN 818-3D	NUT, CPL, SAME AS 5-87	REF	
5-	A 11177	DIODE PLATE ASSEMBLY	1	
		(ATTACHING PARTS)		
-200	COML	SCREW, SAME AS 5-176	REF	
		(FROM PUMP TO SOLENOID)NUT, COUPLING, SAME AS 5-87SLEEVE, SAME AS 5-88TUBING, A1 ANOD 1/8 IN. ID X 3/16 IN. OD X 8-1/4 IN. LGELBOW, SAME AS 5-44TUBING ASSEMBLY, A1, 4-1/2 IN. LG (FROM CHECK VALVE TO PUMP)NIPPLE, SAME AS 5-141SLEEVE, SAME AS 5-88TUBING, SAME AS 5-141SLEEVE, SAME AS 5-194, 4-1/2NUT, CPL, SAME AS 5-87DIODE PLATE ASSEMBLY (ATTACHING PARTS)SCREW, SAME AS 5-176		
-201	1N253	DIODE	2	
-202	11 11300	····	1	
-203	P 345C	PUMP, MFR. CODE 64560	1	
004	go. 47	(ATTACHING PARTS)SCREW, MACH, FIL HD, STL, CD PL, 1/4-28 NF X 1/4 IN. LG		
-204	COML	SCREW, MACH, FIL HD, STL, CD PL,	4	
		1/4-28 NF A 1/4 IN. LG		
-205	AN 914-3D	ELBOW, SAME AS 5-188 -NOT USED-	REF	
-206	AN 822-3D	ELBOW, 90@,	1	
-207	AN 823-3D	ELBOW, SAME AS 5-173	REF	
5-		TUBING ASSEMBLY, A1, 5-1/2 IN. LG	1	
		(FROM PUMP TO RESERVOIR)		
-208	AN 819-3D	SCREW, MACH, FIL HD, STL, CD PL, 1/4-28 NF X 1/4 IN. LG ELBOW, SAME AS 5-188 -NOT USEDELBOW, 90@,ELBOW, SAME AS 5-173TUBING ASSEMBLY, A1, 5-1/2 IN. LG (FROM PUMP TO RESERVOIR)SLEEVE, SAME AS 5-88NUT, COUPLING, SAME AS 5-87TUBING, A1, ANOD, SAME AS 5-194, 5-1/2 IN. LG	REF	
-209	AN 818-3D	NUT, COUPLING, SAME AS 5-87	REF	
-210	WWT-789	TUBING, A1, ANOD, SAME AS 5-194, 5-1/2 IN. LG	1	
-211	KF-200	FILTER, SAME AS 5-182,	1	
		EXCEPT WITH RELIEF VALVE PORT		
010	w 11262	(ATTACHING PORTS)	1	
-212 -213	M 11362 COML	BRACKET, MTG	1 REF	
-213 -214	M 11332	SCREW, SAME AS 5-176 CLAMP, BRACKET, SAME AS 5-185	REF	
-214	COML	SCREW, SAME AS 5-186	REF	
213		·	KEP	
-216	AN 822-3D	ELBOW, SAME AS 5-188 ELBOW, SAME AS 5-173 NIPPLE, SAME AS 5-141	REF	
-217	AN 823-3D	ELBOW, SAME AS 5-173	REF	
-218	AN 816-3D	NIPPLE, SAME AS 5-141	REF	
5-		TUBING ASSEMBLY, 8 IN. LG	1	
		(FROM PUMP TO RESERVOIR)NUT, CPL, SAME AS 5-87		
-219	AN 818-3D	NUT, CPL, SAME AS 5-87	REF	

IPB/17

FIGURE & INDEX NO.	PART NUMBER	1 2 3 4 5	5 6 7 NOMENCLATURE	UNITS PER ASSY.	USABLE ON CODE
-220	AN 819-3D		SLEEVE, Same as 5–88	REF	
-221	WWT-789b		TUBING, Al anod, 8 In. lg		
5-	12415		ALVE ASSEMBLY, Overpressure	1	
-222	12412		CAP, Valve	1	
-223	P 1041		SPRING, Valve	1	
-224	12413		SEAT, Valve	1	
-225	GRC 513-4		"O"-RING	1	
-226	12414		BODY	1	
-227	V51DA-1125		SOLENOID (Mfr. code 81978)	2	
-228	COML	1	SCREW, Mach, fil hd, slot, stl, cd pl, 10-32 NC x 1/4 In. lg	4	
-229	AN 822-3D	E	ELBOW, Same as 5-44	REF	
-230	AN 816-3D	\cdots	NIPPLE, Same as 5-141	REF	
5-			FUBING ASSEMBLY, Al anod, 7-1/2 In. lg From filter to reservoir)		
-231	AN 818-3D		NUT, Cpl, Same as 5–87	REF	
-232	AN 819-3D		SLEEVE, Same as 5–88	REF	
-233	WWT-789b		TUBING, Al anod, 7-1/2 In. lg	1	
-234	A 21302		RESERVOIR ASSEMBLY,	1	
-235	AN 822-3D	\cdots	ELBOW, Same as 5—188	REF	
-236	AN 929-3D		CAP, Tube		
-237	P 41061		PLATE, Bottom, blank,	REF	

Figure 6. Bellows Assembly

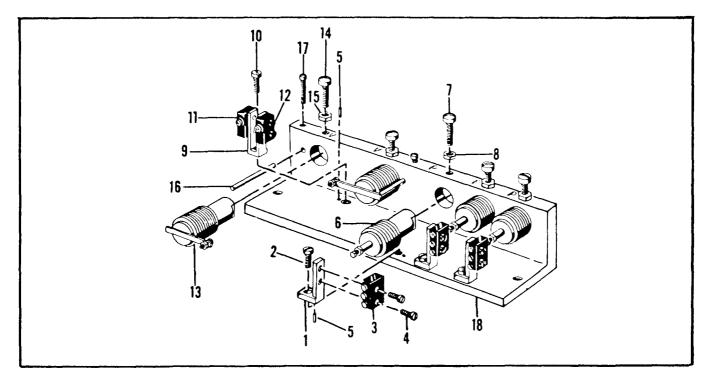


FIGURE & INDEX NO	PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE
6-	A 21301	BELLOWS ASSEMBLY	REF	
-1	М 11787	SEE FIGURE 5-171 FOR NEXT HIGHER ASSEMBLYBRACKET, MICROSWITCH, PRESS (ATTACHING PARTS)	3	
-2	COML	SCREW, MACH, FIL HD, SLOT, BRS 6-40 X 3/8 IN. LG	4	
-3	11SM401-1062	SWITCH, MICRO, MFR. CODE 91929 (ATTACHING PARTS)	5	
-4	COML	SCREW, MACH, FIL HD, SLOT, BRS 3-56 X 5/16 IN. LG	10	
-5 -6	P 1119 A 11806	PIN, LOCATINGBELLOWS ASSEMBLY (ATTACHING PARTS)	4 3	
-7	COML	SCREW, MACH, PAN HD, SLOT, BRS 8-32 X 1/2 IN. LG	5	
-8	COML	8-32 X 1/2 IN. LG NUT, HH, DC, BRS, 8/32 X 1/8 THK X 11/32 IN. W	5	
-9	M 11786	BRACKET, MICROSWITCH, VACUUM (ATTACHING PARTS)	1	
-10	COML	SCREW, SAME AS 6-2	REF	
-11	11SM401-1062	SWITCH, MICRO, SAME AS 6-3 (ATTACHING PARTS)	REF	
-12	COML	SCREW, SAME AS 6-4	REF	
-13	A 11805	BELLOWS ASSEMBLY, VACUUM (ATTACHING PARTS)	2	
-14 -15	COML COML	SCREW, SAME AS 6-7 NUT, SAME AS 6-8	REF REF	
-16	M 11861	STOP-VAC, BELLOWS (ATTACHING PARTS)	2	
-17	COML	SCREW, MACH, FIL HD, SLOT, BRS, 3-56 X 1/2 IN. LG	2	
-18	M 21293	BLOCK, BELLOWS	1	

TM 55-4920-378-14&P Illustrated Parts Breakdown

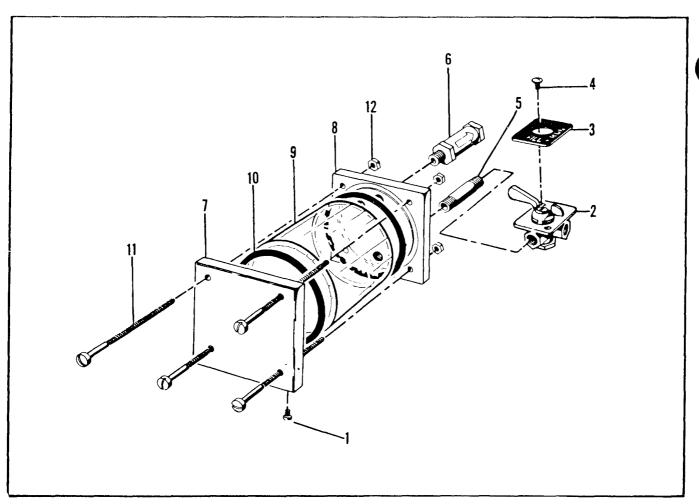


Figure 7. Reservoir Assembly

FIGURE & INDEX NO.	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USABLE ON CODE
7-	A 21302	See figure	DIR ASSEMBLY,5–234 for next higher assembly ING PARTS)	REF	
-1	COML	•	ame as 5–176	REF	
-2	710-13-1/8D		E ASS EM BLY,	1	
-3	P 11300		Valve instructionsCHING PARTS)	. 1	
-4	COML	· · · · SCREW	7, Mach, RH, slot, stl, cd pl, C x 1/4 In. lg	. 2	
-5	M 11190	NIPPLE	E, 1/8 In. pipe	. 1	
-6	481-1/8D		E, Check (Mfr. code 86768)		
-7	M 11811		, Front		
-8	M 11810		, Back		
-9	P 11686		TUBE (Body)		
-10	P 11685		T, Reservoir		
-11	COML	· · · · · SCREW	', Mach, RH, slot, brs,		
-12 IPR/20	COML		IH, brs,	4	

Illustrated Parts Breakdown TM 55-4920-378-14&P

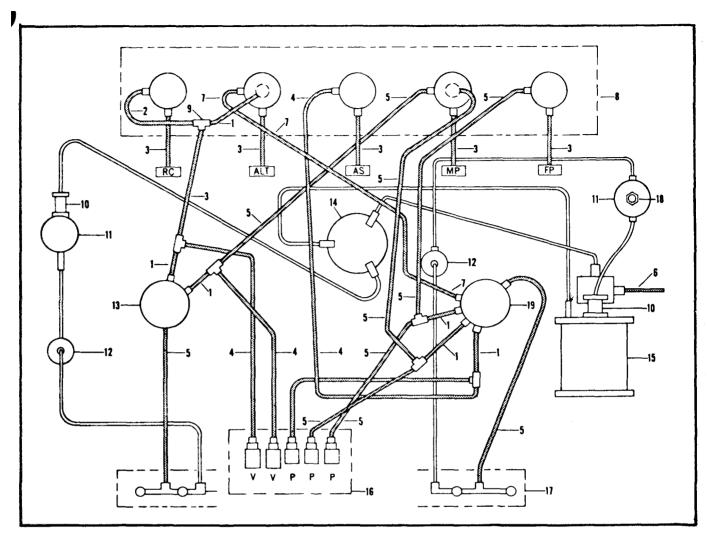


Figure 8. Vacuum & Pressure Line Diagram

ITEM NO.	PART NO.	NOMENCLATURE
1	21369-1	HOSE ASSEMBLY
2	21369-2	HOSE ASSEMBLY
3	21369-3	HOSE ASSEMBLY
4	21369-4	HOSE ASSEMBLY
5	21369-5	HOSE ASSEMBLY
6	21369-6	HOSE ASSEMBLY
7	21369-7	HOSE ASSEMBLY
8	A31183	INSTRUMENT PANEL
9	AN 824-3D	TEE, Flared Tube
10	481-1/8D	CHECK VALVE
11	KF 200	FILTER, Fuel
12	V51DA1125	SOLENOID
13	AL 5TSL	VALVE, Selector, Vacuum
14	P 345-C	PUMP
15	21302	RESERVOIR
16	21301	BELLOW BLOCK
17	A21326	CONTROL PANEL
18	12415	VALVE, Overpressure
19	82456-1	VALVE, Selector, Pressure

D.I. D.T. N.O.	FIG. &	QTY	D. DE MO	FIG. &	QT
PART NO.	INDEX NO.	PER ART	PART NO.	INDEX NO.	PEI AR'
	į NO.	AKI		INU.	AN
AN 3057-3A	5-119	1	AN 916-1D	5-85	2
AN 6227-6	5-21	4	5-91		
	5-31		AN 917-1D	5-81	
	5-36			5-97	
			AN 919-2D	5-20	4
AN 737-TW-48	3-28	2	5-30		
AN 814-4D	3-38	2	AN 924-4D	3-36	
AN 816-3D	5-25	13	AN 960-8	5-180	
			AVEC 4-2F	3-41	
	5-82		AVEN 4-2F	0 .1	4
	5-86		11, 21, 12	5-148	
	5-92			5-158	
	5-98			5-169	
	5-141		AW 1815AB-01	5-137	
	5-152		AW 2825AC-02	5 157	
	5-163		A 11805	5-13	,
	5-189		A 11806	5-6	,
	5-196		A 21032	3-0	•
	5-218		A 21032 A 21032-1	3-26	
	5-230		A 21032-1 A 21301	5-20 5-171	
AN 816-4D	3-29	2	6-	3-171	
AN 010-4D	3-29 3-40	2	A 21326	5-	
AN 818-3D	5-87	16	A 21789	5-114	
1N 010-3D	5-93	10	A 31033	3-114	
	5-190			5- 5-	
			A 31175	3- 4-12	
	5-192		A 31180	4-12 4-2	
	5-199		A 31181		
	5-209		A 31183	5-	
	5-219		A 31187	1-1	
N 922 2D	5-231	22	A 31203-1	3-	
AN 822-3D	5-44 5-47	22	A 31203-2	3- 3-	
	5-47 5-124		A 31203-3		
	5-124 5-120		A 31203-4	3- 5-22	
	5-130		A 50-MB-1A	5-22	
	5-140		GA41062	1-1	
	5-151		GRC 513-4	5-225	
	5-161		HC 205	2-1	
	5-188		HKP	5-70	4
	5-195		KF 200	5-182	4
N 000 AD	5-229	1	MILA 27229	5-22	
N 822-4D	3-33	1	MS 25237-327	5-77	
AN 823-3D	5-173	8	MS 3057-10A	3-2	
	5-207		160 2101 110 11	3-8	
	5-217		MS 3101A18-10A	3-18	
AN 91 1-1D	131	4	MS 3102A 18-1 P	5-117	
	162		MS 3106A10S-2S	5-118	
AN 913 -1 D	5-125	1	MS 3106A18-1S(c)	3-16	-
N 914-3D	5-205			3-21	

ILLUSTRATED PARTS BREAKDOWN (NUMERICAL INDEX)

PART NO.	FIG. & INDEX NO.	QTY PER ART	PART NO.	FIG. & INDEX NO.	QTY PER ART
MS 3106A18-5S(C)	3-4 3-10 3-16	3	P 11309 P 11310 P 11311	5-121 5-78 5-64	5 1 1
MS 3106A20-4P	3-5	1	P 11685	7-10	2
MS 35337-80	5-50	2	P 11686	7-9	1
MS 35649-82	5-116 2-5	4 6	P 12392 P 19093	5-67	1
MS 35822-3A	2-5 4-3	0	P 19093 P 19369	4-26 4-26	1 1
	4-6		P 21088	5-3	1
	4-8		P 21089	5-9	1
	4-25		P 21090-1	5-102	1
M 11172 M 11181	5-48 7-7	1	P 21090-2	5-58 5-108	2
M 11190	7-7	1	P 21090-3	5-62	2
M 11192	3-32	1	1 21000 3	5-104	_
M 11332	5-185	2	P 21090-4	5-60	2
N 11261	5-214	1	D 01204	5-106	1
M 11361 M 11362	5-183 5-212	1	P 21304 P 21322	5-51 4-7	1 1
M 11366	5-202	1	P 21323	44-28	1
М 11786	6-9	1	P 21324	4-10	1
М 11787	6-1	3	P 21325	5-101	1
M 11810 M 11811	7-8 7-7	1 1	P 31177 P 31180	4- 4-12	1 1
M 11811 M 11861	7-7 6-16	2	P 345C	4-12 5-203	1
M 11978	3-34	1	P 41056	4-1	1
М 21293	6-18	1	P 41061	4-21	1
M 21303	4-24	1	RC-60-MS	55-17	1
M 41055	4-4 5-63A	1	AL5TSL 82456-1	5-42 5-45	1 1
P 1041	5-63A 5-223	1	SA 41058	4-	1
P 11189	3-31	1	SKMT-300	2-3	3
P 1119	6-5	4	ST 52K8823-K6	5-75	1
P 11192	3-	1	S-40 KA	5-27	1
P 11294-1 P 11294-2	5-7 5-11	1	V 51DA1125 bWWT 789B (6"")"	5-227 5-89	2 8
P 11296	5-56	2	b(6"")"	5-95	O
	5-110		b(8-1/4")	5-191	
P 11298-1	5-171	1	b(8-1/4")	5-194	
P 11298-2	5-5 5-173	2	b(4-1/2")	5-198 5-210	
P 11299	5-173 5-66	1	b(5-1/2") b(8"")"	5-210 5-221	
P 11300	7-3	1	b(7-1/2"")"	5-233	
P 11301	5-15	1	01-003	5-178	1
P 11302	5-1	1	1N253	5-201	2
P 11303 P 11304	4- 5-13	1 1	11SM401-1062	6-3 6-11	5
P 11304 P 11308	5-13 5-120	5	111-3830-112	5-76	1
		-		· · ·	-

	FIG. &	QTY		FIG. &	QTY
PART NO.	INDEX	PER	PART NO.	INDEX	PER
	NO.	ART		NO.	ART
11722	4-18	1	41058	5-	1
12366-2	3-21	2	41059	1-2	1
	3-22		41060	4-	1
123664	3-23	1	41061	4-21	1
12366	3-24	5	41062	1-	1
12412	5-222	1	41133	5-	1
12413	5-224	1	41134	1-2	1
12414	5-226	1	41135	1-	1
18	3-3	5	481-1/8d	5-187	2
	3-9			7-6	
	3-15		710-13-1/80	5-122	4
	3-19			5-138	
CG 82U50A1	5-174	1		5-159	
S-73505 KH	3-27	1		7-2	
VR-3	5-175	1	711-22-1/80	5-128	2
2MG2	5-80	4		5-149	
	5-84		Lockwasher #8		2
	5-90		Nut 1/4 x 20	7-12	4
	5-96		x 20 x 7/16		
20	3-1	1	Nut 4-40 x 3/32	4-20	4
21304	5-	1	x 1/4		
21333	2-4	1	Nut 6-32	5-177	2
21344	2-7	1	x 7/64 x 3/8		
21369-1(3")	5-133	5	Nut 6-32 x 7/64	5-19	18
	5-143			5-24	
	5-153			5-29	•
21260.2(611)	5-165	4			
21369-2(6")	5-126	1	N . 6 22 7/64	4.00	1.0
21369-3(11-1/2")	5-135	7	Nut 6-32 x 7/64	4-23	10
	5-146		x 5/16	6.9	5
	5-147 5-156		Nut 8-32 x 1/8	6-8 6-15	5
	5-150 5-157		x 11/32 Nut 8-32 x V8	5-181	4
	5-167		x 3/8	3-161	4
	5-168		"0" Ring	5-21	5
21369-5 (9")	5-83	8	0 King	5-25	3
21309-3 (9)	5-99	0		5-31	
	5-127			5-36	
	5-134			3 30	•
	5-145		Plug Coml	3-1	1
	5-155		Screw 1/4-20 x 3/4		2
	5-166		Screw 1/4-20 x 4	7-11	4
21369-7(18")	5-136	1	Screw 1/4-28 x 1/4		4
24A	3-11	2	Screw 10-24 x 1	5-186	4
26	3-12	2		5-215	
2600-3W	5-55	1	Screw 10-32 x 1/4	5-46	2
313-3AG	5-69	2	Screw 10-32 x 1/4	5-228	4
3K2	5-112	1	Screw 3-56 x 1/2	6-17	2

ILLUSTRATED PARTS BREAKDOWN (NUMERICAL INDEX)

PART NO.	FIG. & INDEX NO.	QTY PER ART	PART NO.	FIG. & INDEX	QTY PER ART
SCREW 3-56 X 5/16	6-4 6-12	10	SCREW 8-32 X 1/2	6-7 6-14	5
SCREW4-40 X 1/4	4-19	4 20	SCREW 8-32 X 1/4	5-49	2
SCREW #6-32 X 1/4	5-123 5-129	20	(FIL HD) SCREW 8-32 X 1/4	5-172	2
	5-139 5-150 5-160		(PAN HD) SCREW 8-32 X 9/16 WASHER, FLAT	5-179 3-35	4 1
SCREW TAPP #2 X 1/8	4-17 4-27 5-2 5-4 5-6 5-8 5-10 5-12 5-14 5-16 5-57 5-63 5-65 5-63 5-65 5-68 5-72 5-74 5-79 5-103 5-105 5-107 5-109 5-111	60	29/64 X 3/4 SCREW 1/4-20 X 3/8	5-43	2
SCREW #6-32 X 3/8	4-9 4-11 4-29	20			
SCREW 6-32 X 1 SCREW 6-32 X 1/4 (FIL HD)	5-54 5-18 5-176 5-184 5-200 5-213 7-1	18 12			
SCREW 6-32 X 1/4	7-1 7-4	2			
(RH) SCREW 6-40 X 3/8	6-2	4			
SCREW 6-40 X 7/16 SCREW 8-32 X 1/2	6-10 5-113 5-115	2 4			

Appendix A TM 55-4920-378-14&P

APPENDIX A

REFERENCES

A-1. Dictionaries of Terms and Abbreviations

AR 310-25 Dictionary of United States Army Terms
AR 310-50 Authorized Abbreviations and Brevity Codes

A-2. Publications Index

DA PAM 25-30 Consolidated Index of Army Publications and

Blank Forms

DA PAM 738-751 Functional Users Manual for the Army Maintenance

Management System - Aviation (Tamms-A)

A-3. Logistics and Storage

TM 55-1500-204-25/1 General Aircraft Maintenance Manual TM 743-200-1 Storage and Materials Handling

A-4. Maintenance of Supplies and Equipment

AR 750-1 Army Materiel Maintenance Concepts and Policies

TM 43-0139 Painting Instructions for Field Use

A-5. Other Publications

TM 750-244-14 Procedures for the Destruction of Aviation Ground Support

Equipment (FSC 4920) to Prevent Enemy Use

AR 420-90 Fire Prevention and Protection

A-6. Lubrication

MIL-H-5606 Hydraulic Fluid. Petroleum Base, Aircraft, Missile and Ordnance

A-7. Specifications

MIL-STD-12 Abbreviation for use on Drawings. Specification Standards and

in Technical Documents

MIL-STD-15 Electrical Wiring Equipment Symbols for Ship Plans Part II

MIL-STD-17 Mechanical Symbols

H 4-1 Name to Code, Fed. Sup. Code for Mfg. H 4-2 Code to Name, Fed. Sup. Code for Mfg.

APPENDIX B MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

- B-1. General. The purpose of the maintenance allocation chart is to provide all activities with authorized maintenance functions to be performed at each level of maintenance
- B-2. Maintenance functions. Maintenance functions shall be limited to and defined as follows:
- a. Adjust. Maintain within prescribed limits by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.
- b. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- c. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- d. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.
- e. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment/system.
- f. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (e.g., DMWR) in pertinent technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- g. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like-new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The

rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipment/components.

- h. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module/component/assembly, end item or system.
- i. Replace. The act of substituting a serviceable like-type part, subassembly, module (component or assembly) in a manner to allow the proper functioning of an equipment/system.
- j. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean, preserve, drain, paint, or to replenish fuel/lubricants/hydraulic fluids or compressed air supplies.
- k. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- 1. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.
- B-3. Explanation of format. Purpose and use of the format are as follows:
- a. Column 1. Group number. Column 1 lists group numbers, the purpose of which is to match components, assemblies, subassemblies and modules with the next higher assembly.
- b. Column 2. Functional group. Column 2 lists the next higher assembly group and the item names of components, assemblies, subassemblies and modules within the group for which maintenance is authorized.

- c. Column 3. Maintenance function. Column 3 lists the twelve maintenance functions defined in B-2 above. Each maintenance function required for an item shall be specified by the symbol among those listed in d below which indicates the level responsible for the required maintenance.
- d. Use of symbols. The following symbols shall be used to prescribe work function responsibility:
 - C Operator/Crew
 - O Organization
 - F Direct Support
 - H General Support
 - D Depot

- e. Column 4, tools and equipment. This column shall be used to specify, by code, those tools and test equipment required to perform the designated function.
 - f. Column 5, remarks. Self-explanatory.

	MAINTE	NA	NCE	AL FC		ATI	ON	СНА	RT					
				(AR	310-	3)								=
(1)	(2)		(3)								(4) (5)			
					AINT	ENA	NCE	FUN	CTIO	N				
GROUP NO	FUNCTIONAL GROUP	IN SP ECT	ST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	AIR	OVERHAUL	EBUIL D	TOOLS AND EQUIPMENT	REMARKS
S.		S N.	TEST	SEF	ΑD	ALI	CAL	SNI	REF	REP	OVE	REE		
4008	Tester, Pitot and Static Sys	0	0	0	0		Н			F	D			
08	Instruments	0	F				Н		0	Н	D			
09	Chassis Assembly Pneumatic System	0		0					0	F				
	Electrical System Motor and Pump Assembly	F O	F	0					F O	H F	D			
	Motor and rump Assembly			O					O	r	D			
0902	Accessories	0		0					0	F				

APPENDIX C

REPAIR PARTS AND SPECIAL TOOLS LIST (Current as of 14 January 1976)

Section I. INTRODUCTION

Code

C-1. Scope.

This appendix lists repair parts required for operation and performance of direct support maintenance of the Tester, Pitot and Static Systems.

C-2. General.

This Repair Parts and Special Tools List is divided into the following sections:

- a. Section II. Repair Parts List. A list of repair parts authorized for use in the performance of maintenance. Parts are listed in figure and item number sequence. Bulk materials are listed in NSN sequence.
- b. Section III. Special Tools List. Not applicable.
- c. Section IV. National Stock Number and Part Number Index. A list, in ascending numerical sequence, of all National stock numbers appearing in the listings, followed by a list, in alphanumeric sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

C-3. Explanation of Columns.

The following provides an explanation of columns found in the tabular listings:

- a. Illustration. This column is divided as follows:
- (1) Figure Number. Indicates the figure number of the illustration in which the item is shown.
- (2) *Item Number.* The number used to identify each item called out in the illustration.
- b. Source, Maintenance and Recoverability Codes (SMR).
- (1) Source Code. Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair or overhaul of end items. Source codes are entered

in the first and second positions of the Uniform SMR Code format as follows:

Definition

0000	20
РА	 Item procured and stocked for anticipated or known usage.
ΡВ	 Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply systems.
D 0	

- P C --- Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
- M F --- Item to be manufactured or fabricated at the direct support maintenance level
- XB --- Item is not procured or stocked. If not available through salvage, requisition.
- X D --- A support item that is not stocked.

 When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XD and aircraft support items as restricted by AR 700-42.

- (2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:
- (a) The maintenance code entered in the third position will indicate the lowest main-

tenance level authorized to remove, replace and use the support item. The maintenance code entered in the third position will indicate the following level of maintenance:

Code Application/Explanation

F --- Support item is removed, replaced, used at the direct support level.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code Application/Explanation

D --- The lowest maintenance level capable of complete repair of the support item is the depot level.

Z --- N on reparable. No repair is authorized.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

code Definition

Z --- Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

D - - - Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

- c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.
- d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards and inspection requirements, to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

- e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.
- f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.
- g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e. g., ea, in., pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned,
- h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc.).

C-4. Special Information.

b. Bulk materials required to manufacture items are listed in the Bulk Material Group of this appendix.

C-5. How to Locate Repair Parts.

- a. When National Stock Number or Part Number is Unknown:
- (1) First. Find the illustration covering the assembly to which the repair part belongs.
- (2) Second. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.
- (3) *Third.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.
- b. When National Stock Number or Part Number is Known.
 - (1) First. Using the Index of National

Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in ascending NSN sequence followed by a list of part numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

C-6. Abbreviations.

Not applicable.

TM 55-4920-378-14&P

TM 5	5-4920-	378-148	ξP					
	1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUST	RATION		(3)	(4)	(5)	(0)		QTY
(a)	(b)	CMD	NATIONAL			DESCRIPTION		INC
FIG	ITEM	SMR CODE	STOCK	PART	FSCM	LIGABLE ON CODE	U/M	IN UNIT
NO.	NO.	CODE	NUMBER	NUMBER		USABLE ON CODE	O/IVI	UNIT
						SECTION II. REPAIR PARTS LIST		
						~ · · · · · · · · · · · · · ·		
						ACCESSORIES		
3		PBFZZ	4920-01-007-5201	A31203-1	98810	CABLE ASSEMBLY, SPECIAL PURPOSE: AC POWER, 8 IN. LG	EA	1
3		PBFZZ			98810	CABLE ASSEMBLY, SPECIAL PURPOSE: 3 PHASE AC, 11 IN. LG	EA	1
3		PBFZZ	4920.01-011-8067		98810	CABLE ASSEMBLYSPECIAL PURPOSE: DC POWER 9 FT LG	EA	1
3	22	PBFZZ	4920-01-007-5203		98810	CABLE ASSEMBLY, SPECIAL PURPOSE: AC POWER, 9 FT,3 IN.LG		1
3	22 23	XDFZZ		12366-2	98810	HOSE ASSEMBLY: 6 FT LG	EA	1
3 3	23	XDFZZ XDFZZ		12366 A21032	98810 98810	HOSE ASSEMBLY: 5 FT LG HOSE ASSEMBLY, PITOT HEAD	EA EA	1 1
3	28	PBFZZ	4730-00-289-5894		88044	CLAMP, HOSE	EA	1
3	20	XDFZZ	4/30-00-207-307-	A21033	98810	CLAMP ASSEMBLY, STATIC PORT	EA	1
3	33	PBFZZ	4730-00-186-9961		96906	ELBOW, PIPE TO TUBE	EA	1
3	36	PBFZZ	5310-00-282-7823		96906	NUT, PLAIN, HEXAGON	EA	1
3	38	PAFZZ			88044	NIPPLE, TUBE	EA	1
3	39	PBFZZ	4730-00-812-5036		96906	REDUCER, TUBE	EA	1
3	40	PBFZZ	4730-00-240-5905	AN816-4D	88044	ADAPTERSTRAIGHT, PIPE TO TUBE	EA	1
3	41	XDFZZ		AVEC4-2F	78357	COUPLING, QUICK DISCONNECT	EA	1
						TESTER ASSEMBLY		
_	17	DAEDD	((10,00,550,040)	NAC20040 1	06006	INDICATOR VERTICAL VELOCITY	T: A	.
5 5	17 20	PBFZZ	6610-00-558-0480 4710-00-812-5030		96906 96906	INDICATOR, VERTICAL VELOCITY REDUCER, TUBE	EA EA	1 1
5	20	PCFZZ			96906	PACKING, PREFORMED	EA	1
5	22	PAFDD			81349	ALTIMETER, PRESSURE	EA	1
5	27	PAFDD			96906	INDICATOR INDICATED AIR SPEED	EA	1
5	30	PBFZZ	4730-00-812-5036		96906	REDUCERTUBE	EA	1
5	31	PCFZZ	5330-00-582-2133		96906	PACKING,PREFORMED	EA	1
5	32					DELETED		
5						DELETED		
5	37					DELETED		
5	40					DELETED		
5	41	DDEGG	5225 00 200 500	2 < 0.0 2117	71206	DELETED		
5	55	PBFZZ			71286	STUD ASSEMBLYTURNLOCK FASTENER	EA	1
5 5		PBFZZ PBFZZ	5325-00-505-4798		71286 71286	RECEPTACLE, TURNLOCK FASENER STUD ASSEMBLY TURNLOCK FASTENER	EA EA	1 22
5		PBFZZ	5325-00-290-8028 5325-00-290-3976		71286	RECEPTACLE, TURNLOCK FASTENER	EA	22
5		PBFZZ	5325-00-290-3970		71286	GROMMET	EA	23
5		PBFZZ	5365-00-598-1474		71286	RING, RETAINING	EA	23
5	75		5930-00-655 1575		96906	SWITCH, TOCGLE	EA	1
5	77	PAFZZ			96906	LAMP, INCANDESCENT	EA	1
5	177	PBFZZ	5935-00-721-0490			CONNECTOR, RECEPTACLE, ELECTRICAL	EA	1
5	118	PBFZZ	5935-00-999-5072		ı	CONNECTOR, PLUG, ELECTRICAL	EA	1
5	122	XBFZZ	4020 00 00 0	710-13-1-8D	86768	VALVE, LINEAR: SELECTOR	EA	1
5	128	PBFZZ	4820-00-085-1900	711-222-1-8D	86768	VALVE, PLUG: SELECTOR	EA	1
					1			
1								
					1			
1								
1								

						TM55-4920-378-14&P			
(1) TLLUST	RATION	(2)	(3)	(4)	(5)	(6)	(7)	(8) OTY
(A) FIG	(B) ITEM	SMR	NATIONAL STOCK	PART		DESCRIPTION			INC IN
NO	NO	CODE	NUMBER	NUMBER	FSCM	USABLE	ON CODE U	/M	UNIT
5	137	XDFZZ		AVEN4-2F	78357	COUPLING, QUICK DISCONNECT	E	A	1
5	138	XBFZZ		710-13-1-8D	86768	VALVE, LINEAR: SELECTOR	E	A	1
5	148	XDFZZ		AVEN4-2F	78357	COUPLING, QUICK DISCONNECT	E	A	1
5	149	PBFZZ	4820-00-085-1900	711-222-1-8D	86768	VALVE, PLUG: SELECTOR	E	A	1
5	158	XDFZZ		AVEN4-2F	78357	COUPLING, QUICK DISCONNECT	E	A	1
5	159	XBFZZ		710-13-1-8D	86768	VALVE, LINEAR: SELECTOR	E	A	1
5	169	XDFZZ		AVEN4-2F	78357	COUPLING, QUICK DISCONNECT	E	A	1
5	178	XDFZZ		01-0003	98810	TRANSFORMER, STEP-DOWN	E	A	1
5	187	XDFZZ		481-1-8D	86768	VALVE, CHECK	E	A	1
						VACUUM AND PRESSURE LINES			
8	1	MFFZZ		SA21369-1	98810	HOSE ASSEMBLY: 3 IN. LG	E	A	6
8	2	MFFZZ		SA21369-2	98810	HOSE ASSEMBLY: 10 IN. LG	E	A	1
8	3	MFFZZ		SA21369-3	98810	HOSE ASSEMBLY: 11-1/2 IN. LG	E	A	6
8	4	MFFZZ		SA21369-4	98810	HOSE ASSEMBLY: 12 IN. LG	E	A	3
8	5	MFFZZ		SA21369-5	98810	HOSE ASSEMBLY: 15 IN. LG	E	A	8
8	6	MFFZZ		SA21369-6	98810	HOSE ASSEMBLY: 15 IN. LG, W/ONLY ONE ADAPTER	E	A	1
8	7	MFFZZ		SA21369-7	98810	HOSE ASSEMBLY: 18 IN. LG	E	A	1
8	10	XDFZZ		481-1-8D	86768	VALVE, CHECK	E	A	1
8	13	XDFZZ		AL5TSL	26665	VALVE, SELECTOR	E	A	1
8	14	PBFZZ	4310-00-945-0197	P345C	64560	PUMP ASSEMBLY	E	A	1
8	16			A21301	98810	BELLOWS BLOCK ASSEMBLY	E	A	1
8	16	XBFZZ		A11806	98810	BELLOWS, TESTER, PRESSURE	E	A	3
8	16	XBFZZ		A11805	98810	BELLOWS, TESTER, VACUUM	E	A	2
8	18	PBFZZ	4820-00-152-1487	684-2-1-8D25	86768	VALVE, PRESSURE	E	A	1
8	19	XDFZZ		82456-1	26665	VALVE, SELECTOR	E	A	1
						BULK MATERIAL			
BULK		PCFZZ	4720-00-277-8982			HOSE, NONMETALLIC: RUBBER, 3/16 IN.ID, 7/16 IN.OD, 50 FT LG, MIL-H-5593, SIZE 3	F	Т	V
BULK		PAFZZ	4730-00-278-5688	MS27404-3D	96906	ADAPTER,STRAIGHT,TUBE TO HOSE: ALUMINUM, 3/8 IN24 NF,U/W 3/16 IN.ID HOSE	E	A	V

SECTION III. SPECIAL TOOLS LIST

(NOT APPLICABLE)

SECTION V. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER	STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER
4310-00-945-0197 4720.00-277-8982 4730-00-186-9961 4730-00-240-5905 4730-00-278-5688 4730-00-289-5894 4730-00-812-5036 4730-00-812-5036 5365-00-598-1474	8 BULK 3 3 BULK 3 3 5 5	14 33 40 28 39 20 30	5325-00282-2045 5325-00-290-3976 5325-00-290-8028 5325-00.298-7003 5325-00-505-4798 5330-00-260-9311 5330-00-582-2133 5330-00-582-2133	5 5 5 5 5 5 5 5 5 5 5 5	55 21 31
4730-00-9254752 4820-00-085-1900 4820-00-152-1487 4920-01-007-5201 4920-01-007-5202 4920-01-007-5203 4920-01-011-8067 5310-00-282-7823	3 5 5 8 3 3 3 3 3 3	38 128 149 18	5930-00-655-1575 5935-00-721-0490 5935-00-999-5072 6240-00-155-7836 6610-00-558-0480 6610-00-899-7445 6610-00-935-4323	5 5 5 5 5 5 5 5 5	75 117 118 77 17 27 22

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART	FSCM	FIG NUMBER	ITEM	PART NUMBER	FSCM	FIG NUMBER	ITEM
NUMBER		NUMBER	NUMBER	NUMBER		NUMBER	NUMBER
ALSTSL	26665	8	13	MS287754011	96906	5	21
AN6227-5	88044	5		MS28775-011	96906	5	31
AN737RM48	88044	3	28				
AN81540	88044	3	38	MS3102R181P	96906	5	117
AN816-40	88044	3	40	MS3106R10S2S	96906	5	118
AVEC4-2F	78357	3	41	MS35059-22	96906	5	75
AVEN4-2F	78357	5	137	P345C	64560	8	14
AVEN4.2F	78357	5	148	R4G	71286	5	
AVEN42F	78357	5	158	SA21369-1	98810	8	1
AVEN4-2F	78357	5	169	SA21369-2	98810	8	2
A11805	98810	8	16	SA21368&3	98810	8	3
A11806	98810	8	16	SA21369-4	98810	8	4
A21032 A21033	98810 98810	3		SA2136-5	98810 98810	8	5 6
A21033 A21301	98810	8	16	SA21369-6 SA21369-7	98810	8	7
A31203-1	98810	3	10	01-0003	98810	5	178
A31203-1 A31203-2	98810	3		40024	7126	5	170
A31203-2 A31203-3	98810			40024 4002M	7126	5	
A31203-4	98810			12366-2	98810	3	22
MILA27229	81349	5	22	12366-4	98810	3	23
							20
							55
				481-1-SD	86768		
MS2440004	96906	3	36	6842-1-80D25	86768	8	18
MS25237-327	96906	5	77	710-13-1-8D	86768	5	122
MS27404-3D	96906	BULK		710-13-1-80	86768	5	138
MS28046TI	96906	5	27	710-1-1-8D	86768		159
MS28049-1	96906	5	17	711-222-1-8D			
				_			
				82456-1	26665	8	19
		İ	Ì	1			İ
MS25237-327 MS27404-3D MS28046TI	96906 96906 96906	5 BULK	77	6842-1-80D25 710-13-1-8D 710-13-1-80 710-1-1-8D	86768 86768 86768	5	122 138

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