

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, AND FIELD (THIRD ECHELON) MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS AND MAINTENANCE ALLOCATION CHART, AXLES RL-27-B, RL-27-C, AND RL-27-D

Headquarters, Department of the Army, Washington 25, D.C.

11 June 1964

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SECTION I

INTRODUCTION

1. Scope

a. This manual includes an operator, organizational, and field (third echelon) special tools list.

(1) The operator's maintenance repair parts and special tools list lists items supplied for initial operation. The list includes parts and material issued as part of the major end item. All items authorized for basic operator maintenance

of the equipment are also listed

(2) The organizational maintenance repair parts and special tools list lists the repair parts authorized for organizational maintenance and is a basis for requisitioning by organizations which are authorized the major item of equipment. End items of equipments are issued on

*This manual supersedes TM 11-3895-201-12P, 23 June 1959 and TM 11-3895-201-35P, 23 JUNE 1959

This copy is a reprint which includes current pages from Changes ¹

the basis of allowances prescribed in equipment authorization tables and other documents that are a basis for requisitioning.

- (3) Field (third echelon) maintenance repair parts and special tools list, lists the quantities of repair parts authorized for third echelon field maintenance and is a basis for requisitioning authorized parts.
- (4) The maintenance allocation chart assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

b. Columns are as follows:

- (1) *Source, maintenance, and recoverability code* Source, maintenance, and recoverability codes indicate the technical service responsible for supply, the echelons where an item is stocked, echelons where an item is installed or repaired, and whether an item is repairable or salvageable. The source code column is divided into four parts.

(a) *Column A.* This column indicates the material code and designates the area of responsibility for supply. AR 310-1 defines the basic numbers used to identify the materiel code. If the part is Signal materiel responsibility, the column is left blank.

(b) *Column B.* This column indicates the point within the maintenance system where the part is available. "P1" indicates that the repair part is a low mortality part; procured by technical services, stocked only in and supplies from technical service key depots, and authorized for installation at indicated maintenance echelons.

(c) *Column C.* This column indicates the 10 lowest maintenance echelon authorized to install the part

"O" - Organizational maintenance (1st and 2d echelon).

"F" - Field maintenance (3d echelon).

(d) *Column D.* Not used.

(2) *Federal stock number.* This column lists the 11-digit Federal stock number.

(3) *Designation by model.* The dagger (†) indicates model in which the part is used.

(4) *Description.* Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.

(5) *Unit of issue.* The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.

(6) *Expendability.* Nonexpendable items are indicated by NX. Expendable items are not annotated.

(7) *Quantity authorized.* Under "Items Comprising an Operable Equipment," the column lists the quantity of items supplied for the Initial operation of the equipment.

(8) *Quantity incorporated in unit.* This column lists the quantity of each part found in a given assembly, component, or equipment.

(9) *Organizational.* An asterisk (*) indicates that an item is not authorized for stockage but if required, may be requisitioned for immediate use only.

(10) *Field (third echelon).* This column indicates quantities of repair parts authorized for initial stockage for use in the third echelon maintenance and in supply support to second echelon. The quantities are based on 100 equipments to be maintained for a 15-day period.

(11) *Field (fourth echelon).* See paragraph 3.

(12) *Depot (fifth echelon).* see paragraph 3.

(13) *Illustration.* Not used.

2. Parts for Maintenance.

When this equipment is used by signal service organizations organic to the

CHANGE }
No. 1 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 7 March 1967

**Operator, Organizational, and Field (Third Echelon) Maintenance Repair Parts and
Special Tool lists and Maintenance Allocation Chart**

AXLES RL-27-B, RL-27-C, and RL-27-D

TM 11-3895-201-13P, 11 June 1964, is changed as follows.

Page 3, section I. Delete paragraph 6 and substitute

6. Reporting of Equipment Manual Improvements

Report of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-MR-NMP-AD, Fort Monmouth, N.J. 07703.

Page 4, section 11. Delete all reference to "LUBRICATION ORDER LO 11-1119".

By Order of the Secretary of the Army

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General, United States Army,
Chief of Staff.

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KENNETH G. WICKHAM,
Major General, United States Army,
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USACDCARTYA (1)
USACDCSWA (1)
USACDCEA (Ft Huachuca) (1)
USAARENBD (2)
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USCONARC (5)
ARADCGM (5)
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OS Maj Cmd (4)
LOGCOMD (2)
USAMICOM (4)
USASTRATCOM (4)
USAESC (70)

MDW (1)
Armies (2) except Seventh (10);
EUSA (10)
Corps (2)
USAC (3)
Div (2)
Bde (2)
Regt/Gp/bat gp (2)
Bn (2)
Co/Btry (1)
USATC (2)
WRAMC
Army Pic Cen (2)
USACDCEC (10)
Svc Colleges (2)
USASESCS (100)
USAADS (2)
USAAMS (30)
USAARMS (2)
USAIS (5)
USAES (2)
MFSS (5)
USAOC&S (5)
USAMPS (5)
USMA (5)
USAADS (5)
USATSCH (5)
Instl (2) except
LBAD (14)

SAAD (30)
TOAD (14)
LEAD (7)
SHAD (3)
NAAD (5)
SVAD (5)
CHAD (3)
ATAD (10)
Gen Dep (2)
Sig Sec, Gen Dep (5)
Sig Dep (12)
Sig FLDMS (2)
AMs (1)
USAERDAA (2)
USAERDAW (13)
USACRREL (2)
Units organized under following
TOE's:
5-500(AD, BD, HN, MC) (2)
8-500(AH) (2)
9-500(BC, BD, FA-FC, FD,
HB, IA, LA) (2)
11-500(AA-AC, GA, GB, GC,
GM, RC, RT, RU) (2)
29-500(FA, GI) (2)
30-500(AB-AD, FC, JB) (2)
32-500(HD, HH) (2)
55-500(AC, AD, AE) (2)

NG: State AG (3); units-same as Active Army except allowance is one copy to each unit.

USAR: None.

For explanation of abbreviations used, see AR 320-50.

theater headquarters or communication zones to provide theater communications, those repair parts authorized up to and including fourth echelon are authorized to for stockage by the organization operating this equipment.

3. Stockage and Salvage

This equipment will not be maintained above third echelon. When unrepairable at third echelon, this equipment will be salvaged

4. Other Service Stock Numbers

Other service items listed herein are authorized in accordance with AR 700-51.

5. Requisitioning Information

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for initial stockage for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.

$$\text{Specific number of equipments supported} \times \frac{\text{allowance factor}}{100} =$$

Number of parts authorized for initial stockage

A Fractional values obtained from above computation will be rounded to whole numbers as follows:

- (1) When the total number of parts authorized is less than 0.5, the quantity authorized will be zero.
- (2) When the total number of parts authorized is between 0.5 and 1.0, the quantity authorized will be one.
- (3) For all values above one, fractional values below 0.5 will revert to the next lower whole number and fractional value 0.5 and above will advance to the next higher whole number.

c. The quantities determined in accordance with the above computation represent the initial dockage for a 15-day period.

6. Reporting of Equipment Manual Improvements

The direct reporting, by the individual user, of errors, omissions, and recommendations for improving this equipment manual, is authorized and encouraged. DA Form 2028 will be used for reporting these improvements. This form may be completed using pencil, pen or typewriter. DA Form 2028 will be completed in triplicate and forwarded by the individual using the manual. An original and one copy will be forwarded direct to: Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-MR-ML, Fort Monmouth, New Jersey, 07703. One information copy will be furnished to the individual's immediate supervisor (officer, noncommissioned officer, supervisor, etc).

SECTION II. FIRST ECHELON FUNCTIONAL PARTS LIST

FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT		QTY	ILLUSTRATION	
			OF ISSUE	EXP		AUTH	FIGURE NO.
		AXLE RL-27B, RL-27C, RL-27D					
3895-630-3086		AXLE RL-27B,RL-27C:HAND WIRE LAYING & RECOVERING DEVICE;C/O AXLE W/2 HANDLES & L SIG CRANK GC15;APPROX 29 IN. LG X 1-3/4 IN D X 8-3/4 IN. W; L HANDLE REMOVABLE TO PERMIT PLACING OF REEL ON AXLE, SHFT MOD, TO ACCOM SIG C CRANK GC-15; US ARMY SPEC #71-665,U/W REEL DR-4				NX	
3895-356-3937		AXLE RL-27-D:STRAIGHT AXLE TYPE;RIGID FRAME CARRIED BY 2 MEN;DIM 28-13/16 IN. LG 1-3/4 IN. DIA,REMOVABLE HANDLE, SIG SPEC NO. 71-665,DWG NO. SC-D-83171,U/W DR-4 AND RL-159/U NOTE: MODEL COLUMN 1 REFERS TO RL-27-B,COLUMN 2 REFERS TO RL-27-C, COLUMN 3 REFERS TO RL-27-D				NX	
		ITEMS COMPRISING AN OPERABLE EQUIPMENT					
	+ + +	TECHNICAL MANUAL TM 11-3895-201-13P					2
	+ + +	LUBRICATION ORDER LO 11-1119					2
3895-127-0979	+ + +	CRANK GC-15					1
		RUNNING SPARE ITEMS					
		NO PARTS AUTHORIZED FOR STOCKAGE AT FIRST ECHELON					

SECTION III. SECOND ECHELON FUNCTIONAL PARTS LIST

FEDERAL	DESIGNATION		UNIT	QTY	2D ORGAN.	ILLUSTRATION	
BY MODEL	BY MODEL		OF	EXP	IN	IZATIONAL	
STOCK NUMBER	DESCRIPTION		ISSUE	UNIT		FIGURE	ITEM
						NO.	NO.
	NOTE: MODEL COLUMN 1 REFERS TO RL-27-B MODEL COLUMN 2 REFERS TO RL-27-C MODEL COLUMN 3 REFERS TO RL-27-D						
3895-630-3086	AXLE RL-27-B; RL-27-C: HAND WIRE LAYING AND RECOVERING DEVICE; C/O AXLE W/2 HANDLES AND 1 SIG CRANK GC15; APPROX 29 IN LG X 1-3/4 IN D X 8-3/4 IN W; 1 HANDLE REMOVABLE TO PERMIT PLACING OF REEL ON AXLE, SHAFT MODIFIED TO ACCOM SIG C CRANK GC-15; US ARMY SPEC #71-665-C; U/W SIGC REEL DR-4			NX			
3895-356-3937	AXLE RL-27-D: STRAIGHT AXLE TYPE; RIGID FRAME; CARRIED BY TWO MEN; DIM 28-13/16 IN LG, 1-3/4 IN DIA; REMOVABLE HANDLE; SIG SPEC #71-665, DWG #SC-D-83171; U/W DR-4 AND RL-159/U			NX			
3895-127-0979	+ + + CRANK GC-15:			NX	1	*	
3895-356-3942	+ HANDLE: REMOVABLE TYPE; SIG DWG # SC-C-83183			NX	1	*	
5315-664-6439	+ PIN, SPRING: 0.187 IN DIA X 1.000 IN LG X 0.040 IN THK;				2	*	

SECTION IV. THIRD ECHELON FUNCTIONAL PARTS LIST

SOURCE CODE	FEDERAL STOCK NUMBER	DESIGNATION BY MODEL		DESCRIPTION	UNIT OF ISSUE	EXP	QTY IN UNIT	ILLUSTRATION		
		A	B					C	D	FIGURE NO.
				NOTE: MODEL COLUMN 1 REFERS TO RL-27-B MODEL COLUMN 2 REFERS TO RL-27-C MODEL COLUMN 3 REFERS TO RL-27-D						
	3895-630-3086			AXLE RL-27-B; RL-27-C: HAND WIRE LAYING AND RECOVERING DEVICE; C/O AXLE W/2 HANDLES AND 1 SIG CRANK C015; APPROX 29 IN LG X 1-3/4 IN D X 8-3/4 IN W; 1 HANDLE REMOVABLE TO PERMIT PLACING OF REEL ON AXLE; SHAFT MODIFIED TO ACCOM SIG C CRANK OC-15; US ARMY SPEC #71-665-C; U/W SIG C REEL OR-4						
	3895-356-3937			AXLE RL-270-D: STRAIGHT AXLE TYPE; RIGID FRAME; CARRIED BY TWO MEN; DIM 28-13/16 IN LG, 1-3/4 IN DIA; REMOVABLE HANDLE; SIG SPEC NO. 71-665, DWG NO. SC-D-83171; U/W DR-4 AND RL-159/U						
P1	F	3895-407-7632	+	+	ADAPTER: F/REEL SHAFT; CRANK BUSHING; SIG DWG # SC-D-6702-C DET #15		1	1.0		
P1	F	3895-356-3930		+	ADAPTER, SHAFT: CRANK BUSHING; SIG DWG # SC-B-83173		1	1.0		
P1	F	3895-330-9970		+	AXLE: P/O AXLE RL-27-C; SIG DWG # SC-D-20090, ITEMS 1,4,5,18 ASSEMBLED		1	1.0		
P1	F	3895-356-3931		+	AXLE: P/O AXLE RL-27-D; MARKED RL-27-D; SIG DWG # SC-C-83176		1	1.0		
P1	F	3895-407-7634		+	BUSHING, BEARING ASSEMBLY: U/W NON LOCKING HANDLE; SIG DWG # SC-D-20090 ITEM 7 AND 14		3	2.6		
P1	O	3895-127-0979	+	+	+	CRANK OC-15: SIG DWG # SC-D-5114				
P1	F	3895-356-3941		+	HANDLE: FIXED IN PLACE BY RETAINING BUSHING; 10 IN LG X 1-1/4 IN DIA O/A; SIG DWG # SC-C-83180		1	1.0		
P1	O	3895-356-3942		+	HANDLE: REMOVABLE TYPE; SIG DWG # SC-C-83183		1	1.0		

SOURCE CODE	FEDERAL STOCK NUMBER			DESIGNATION BY MODEL	DESCRIPTION	UNIT OF			QTY IN			ILLUSTRATION		
						ISSUE	EXP	UNIT	2ND-FIELD	4TH-FIELD	5TH-DEPOT	FIGURE NO.	ITEM NO.	
A	B	C	D		RL-27-B, -C, & -D (CONTINUED)									
	P1	F	3895-657-9948	+	HANDLE: FIXED; 10-3/16 IN LG X 1-5/8 IN DIA P/N RL-27-C; SIG DWG # SC-D-20090, ITEMS 2,7,14 AND 17			1		1.0				
	P1	F	3895-638-1894	+ + +	KNOB: P/O OF CRANK GC-15; ATTACHED BY SCREW; SIG DWG #SC-D-5114-J, ITEM 3			1		1.0				
	P1	O	5315-664-6439	+	PIN, SPRING: 0.187 IN DIA 1 IN LG X 0.040 IN THK; MIL SPEC # MIL-P-10971			2		1.5				
	P1	F	5315-282-3643	+ +	PIN, SPRING: 0.250 IN NOM DIA X 11/16 IN LG X 0.048 IN THK; MIL P-10971A TYPE I, COMP A			1		1.0				
	P1	F	5305--322-4542	+ + +	PIN, STRAIGHT, HEADED: FIL HD 0.135 DIA OF SHANK X 1-1/32 IN LG; SIG- DWG # SC-D-5114-J, ITEM 2			1		1.0				
5	P1	F	5315-550-8676	+ +	PIN, STRAIGHT, HEADLESS: 3/15 DIA X 7/8 IN LG; TYPE # MBOES 112047			2		1.5				
	P1	F	3895-356-3969	+	RING, RETAINER: LOCKS END CAP ON HANDLE; SIG DWG# SC-C-83183-1			1		1.0				
	P1	F	3895-659-7784	+	SPRING: F/LOCKING HANDLE ON AXLE; P/O RL-27-D; SIG DG3 # SC-B-83184			1		1.0				
	P1	F	5340-263-4568	+ +	SPRING, HELICAL, COMPRESSION: SIG DWG # SC-D-5114-J, ITEM 5			1		1.0				
	P1	F	3895-237-5898	+	SPRING, HELICAL, EXTENSION: SIG DWG # SC-D-1699, ITEM 14			1		1.0				

SECTION V

MAINTENANCE ALLOCATION

7. General

This section assigns maintenance functions to be performed on components, assemblies, and subassemblies by the lowest appropriate maintenance echelon.

8. Columns

a. Columns in the maintenance allocation chart are as follows:

- (1) **Part or component.** This column shows only the nomenclature or standard item name. Additional descriptive data are included only where clarification is necessary to identify the component. Components, assemblies, and subassemblies are listed in top-down order. That is, the assemblies which are part of a component are listed immediately below that component, and the subassemblies which are part of an assembly are listed immediately below that assembly. Each generation breakdown (components, assemblies, or subassemblies) is listed in disassembly order or alphabetical order.
- (2) **Maintenance function.** This column indicates the various maintenance functions allocated to the echelons.
 - (a) **Service.** To clean, to preserve, and to replenish lubricate
 - (b) **Adjust.** To regulate periodically to prevent malfunction.
 - (c) **Inspect.** To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.
 - (d) **Test.** To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.
 - (e) **Replace.** To substitute serviceable components, assemblies, or sub-assemblies, for unservice-

able components, assemblies, or subassemblies.

- (f) **Repair.** To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This function includes but is not limited to welding, grinding, riveting, straightening, and replacements of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.
- (g) **Align.** To adjust two or more components of an electrical system so that their functions are properly synchronized.
- (h) **Calibrate.** To determine, check, or rectify the graduation of an instrument, weapon, or weapons system, or components of a weapons system.
- (i) **Overhaul.** To restore an item to completely serviceable condition as prescribed by serviceability standards developed and published by heads of technical services. This is accomplished through employment of the technique of "Inspect and Repair Only as Necessary" (IROAN). Maximum utilization of diagnostic and test equipment is combined with minimum disassembly of the item during the overhaul process.
- (j) **Rebuild.** To restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through the maintenance technique of complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances and/or

- specifications and subsequent re-assembly of the item
- (3) *1st, 2d, 3d, 4th, 5th echelons.* The symbol X indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Echelons higher than the echelon marked by X are authorized to perform the indicated operation.
- (4) *Tools required.* This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment referenced. The grouping of codes in this column of the maintenance allocation chart indicates the tool,

test and maintenance equipment required to perform the maintenance function.

- (5) *Remarks.* Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding Column
- b. Columns in the allocation of tools for maintenance functions are as follows:
- (1) *Tools required for maintenance functions.* This column lists tools, test, and maintenance equipment required to perform the maintenance functions.
- (2) *1st, 2d, 3d, 4th, 5th echelon.* The daggerd (†) indicates the echelons normally allocated the facility.
- (3) *Tool code.* This column lists the tool code assigned.

SECTION VI. MAINTENANCE ALLOCATION CHART

PART OR COMPONENT	MAINTENANCE FUNCTION	ECHELON 1 2 3 4 5					TOOLS REQUIRED	REMARKS
<p>AXLE RL-ST-B, C, AND D: This equipment shall not be maintained above third echelon. When unrepairable at third echelon this equipment shall be salvaged.</p>	<p>service inspect repair overhaul</p>	X	X	X	X	<p>1 1 1 1</p>	<p>Replaces crank, handle, pin, spring</p>	

SECTION VII. ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

PART OR COMPONENT	FUNCTION					TOOL CODE	REMARKS
	1	2	3	4	5		
BL-27B, -C, AND -D (continued) TOOL EQUIPMENT TE-49	1	1				1	

11

By Order of Secretary of the Army:

EARLE G. WHEELER,
General, United States Army,
Chief of Staff.

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USAREUR Spt Comd (5)
USAECOM (5)
USASMCOM (2)
USAMICOM (4)
USAICDA (2)
USAATBD (2)
USATCDA (2)
USAARMCDA (2)
USAARTYCDA (2)
USASWCDA (2)
USASCC (4)
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Armies (2)
Corps (2)
USA Corps (3)
Div (2)
Bde (2)
Regt/Gp/bg (2)
Bn (2)
Co (2)
Det (2)
USATC AD (2)
USATC Engr (2)
USATC Inf (2)
USATC Armor (2)
USASTC (2)
Instls (2) except
 Fort Monmouth (63)
 Fort Hancock (4)
 Fort Leavenworth (2)
 Fort Gordon (5)
 Fort Devens (2)
Svc Colleges (2)
Br Svc Sch (2) except

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USAAMS (20)
USAIS (20)
PMGS (20)
USAADS (20)
USATSCH (20)
USASESCS (40)
GENDEP (OS) (2)
Sig Sec, GENDEP (OS) (5)
Sig Dep (OS) (12)
Army Dep (2) except
 Fort Worth Army Dep (8)
 Lexington Army Dep (12)
 Sacramento Army Dep (28)
 Tobyhanna Army Dep (12)
 Letterkenny Army Dep (5)
 Sharpe Army Dep (3)
 Savanna Army Dep (5)
 Navajo Army Dep (5)
 Charleston Army Dep (3)
 Umatilla Army Dep (5)
USACECDA (2)
USA Elct Rsch & Dev Actv (13)
 White Sands
USA Elct Elct Rsch & Dev Actv (10)
 Fort Huachuca
POE (1)
Trans Tml Comd (1)
Army Tml (1) except
 Oakland Army Tml (5)
USAOSA (1)
AMS (1)
WRAMC (1)
Army Pictorial Cen (2)
USA Elct Mat Agcy (25)
Chicago Proc Dist (1)
Sig Fld Maint Shops (3)
USAERDL (2)
USA Cold Rgn RE Lab (2)
11th Air Assault Div (3)
Rock Island Arsenal (2)
USA Avn Mat Comd (1)
USA Rsch Spt Gp (2)
AFIP (1)
Yuma PG (2)
1st FA Mal Bde (2)
1st GM Bde (2)
KMAG (2)

USACA Taiwan (2)
ARMISH (2)
MAAG Iraq (2)
USARMIS:

Honduras (2)
El Salvador (2)
Ecuador (2)
Argentina (2)

NG: State AG (3); Units - Same as Active Army except allowance is one copy for each unit.

USAR: None.

For explanation of abbreviations used, see AR 320-50.

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