

# TM 9-2910-202-35P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

---

FIELD AND DEPOT MAINTENANCE  
REPAIR PARTS ALLOWANCES

FOR

**CARBURETOR 2910-607-3530**  
**(TILLOTSON MODEL NO. MD-107A)**

END ITEM APPLICATION TM 9-2320-213

---

HEADQUARTERS, DEPARTMENT OF THE ARMY  
JUNE 1958



TECHNICAL MANUAL }  
 No. 9-2910-202-35P }

HEADQUARTERS,  
 DEPARTMENT OF THE ARMY,  
 WASHINGTON 25, D. C., 6 June, 1958

**CARBURETOR 2910-607-3530**  
**(TILLOTSON MODEL NO. MD-107A)**

---

	<u>Page</u>	
SECTION I PREFACE -----		
	<u>Figure</u>	<u>Page</u>
SECTION II FIELD AND DEPOT MAINTENANCE REPAIR PARTS ALLOWANCES		
CARBURETOR, FLOAT: ASSEMBLY - 2910-607-3530 -----	1	
CARBURETOR, FLOAT: ASSEMBLY - EXPLODED VIEW -----	2	

---

\*This publication is numbered in accordance with AR 310-2. TM 9-7502-35 which is pertinent to this materiel will be renumbered accordingly upon revision.

## SECTION I PREFACE

1. GENERAL. a. This appendix is an illustrated list of all service parts together with the estimated quantities of component parts and equipment stocked for maintenance and rebuild of the Carburetor — 2910-607-3530 (Tillotson Model No. MD-107A).

b. The supply parts are allocated in Field and Depot Maintenance columns and indicate the estimated quantities of component parts and equipment authorized for support of field and depot maintenance.

c. The non-supply parts are not stocked for issue and are contained herein for identification. They are not allocated in field and depot maintenance columns.

d. For prices of items contained herein, see the appropriate SM 9-2 series or the ORD 5-3 series supply manuals.

e. Additional applications of items in this manual are listed in the ORD 5-5 and SM 9-3 series supply manuals.

2. REQUISITION NOTES. If the exact item requisitioned is not furnished, or if other action is necessary, the exact nature of the action taken by the supplying agency will be indicated by standard symbols on prescribed forms.

3. EXPLANATION OF COLUMNS. a. Illustrations. This manual contains illustrations to be used in locating and identifying parts. The illustration column is subdivided into two subcolumns.

(1) Figure Number. The Figure Number subcolumn identifies the illustration and also indicates the referenced number listed in the figure number column of the Table of Contents.

(2) Item Number. This number or letter is cross-referenced directly to the illustration which in turn will be keyed to a picture of the item. Parts identified by number will indicate items of supply. Parts identified by letter will indicate non-supply items and will be depicted in subdued tones on the illustration.

b. Federal or Technical Service Stock Number. This column lists the 11-digit Federal stock number which has been assigned by the Cataloging Division, Office of the Assistant Secretary of Defense (Supply and Logistics).

c. Ordnance or Manufacturer's Part Number. This column lists the identifying part number for the item. The number may be an Ordnance or a manufacturer's part number. The 5-digit prefix to the part number is the manufacturer's code. Refer to Manufacturer's Symbols in this preface for cross reference to the Manufacturer. The Ordnance part number is not prefixed by symbol.

d. Source Maintenance and Recoverability Code. This column lists a code which will indicate the parts selected to satisfy maintenance or repair requirements, the most efficient and practical source or method of supply for the selected repair parts, the lowest echelon of maintenance capable of installing or manufacturing the repair part, and the recoverability aspects of the repair part. An example of this code is 9 P F. The "9" indicates the technical service, the "P" indicates the source of supply, the "F" indicates the level of maintenance. These codes will vary and contain different combinations of numbers and letters that pertain to the pertinent item being coded. Refer to paragraph 4b. "Symbols" for the identification of all symbols contained within this column.

e. Description. The Federal Item name (shown in capital letters) and any additional description required for supply operations are listed in this column.

f. Quantity Incorporated in Unit. The Quantity Incorporated in Unit column indicates the number of these parts required for the particular use indicated.

g. Unit of Issue. The Unit of Issue column lists unit package quantities to be requisitioned in multiples thereof by Ordnance units. The unit of issue for non-supply items is not included because the items are not authorized for issue to the various echelons.

### h. Field Maintenance Allowances.

(1) Quantities shown in the Field Maintenance (third and fourth echelon) columns are determined by study of mortality records of the part based on its usage under combat conditions in average climate and terrain. To avoid excessive stockpiling, a decimal fraction system is utilized. The quantity shown is the authorized stockage factor (basic-load) required by the organization to support 100 equipments for a 15-day period.

(2) The quantity authorized is determined by the use of a simple mathematical formula. Resulting fractional values of 0.5 or larger will be rounded to the next higher whole number. Fractional values below 0.5 will be rounded to the next lower whole number.

Example: If the number of equipments supported is 30, and the allowance factor for 100 equipments for a maintenance echelon is 5.9, the following formula would be used:

$$30 \times 5.9 \div 100 = 1.77$$

Since the resulting fractional value is larger than 0.5, that echelon is authorized a quantity of 2. If the number of equipments supported is 89 and the allowance for a maintenance echelon is 3.4, the following formula would be used:

$$89 \times 3.4 \div 100 = 3.026$$

In this instance, that echelon is authorized a quantity of 3, since the resulting fractional value is less than 0.5.

(3) The quantity determined in accordance with (2) above represents one initial basic-load for a 15-day period. Major commanders will prescribe the number of initial basic-loads each maintenance echelon will carry, normally 2 or 3.

(4) Ordnance TOE units having supply responsibility and installations will compute their loads considering end item density and utilizing figures in the field maintenance column of Section II.

(5) In order that the Ordnance Corps at large may be able to make equitable distribution of the total stock of any one item, Ordnance organization commanders should limit their requisitions and stocks to the absolute minimum requirements that are estimated to be necessary for each contemplated tactical operation. The chief Ordnance officer of a force is responsible that various Ordnance units in the force do not use the same items in computing their stocks; e.g., if there is a grand total of 168 vehicles in the entire force, each Ordnance unit in the force should not claim the entire 168 vehicles as a basis for computing its stocks. The chief Ordnance officer must allocate, for spare-parts-stockage purposes, the number of items in the force among the various units. See supply functions of the company, FM 9-10.

i. Depot Maintenance.

(1) The Depot Maintenance column lists the items and quantities of repair parts recommended for the rebuild of 100 major components.

(2) The quantities indicated in this column are for initial requisition. They will be revised by the depot organization to conform to actual usage, which may be more or less than the quantities indicated herein.

(3) To compute the maintenance stock level for more or less than 100 major items, the system in h. (2) above will be utilized.

4. <sup>ff</sup> LIST OF ABBREVIATIONS AND SYMBOLS.

a. Abbreviations.

assy -----	assembly(ies)
DA -----	Department of the Army
dia -----	diameter
dir -----	direct
Ech -----	Echelon
fil-hd -----	fillister head
fin. -----	finish(ed)(ing)
FM -----	Field Manual
hdls -----	headless
hvy -----	heavy
inc -----	incorporated
maint -----	maintenance
med -----	medium
mfrs -----	manufacturers
MI -----	Major Items, malleable iron
no. -----	number(s)
ORD -----	Ordnance
qty -----	quantity
rd-hd -----	round head
S -----	steel
sup -----	support

TM ----- Technical Manual  
 TOE ----- Tables of Organization and Equipment  
 w/ ----- with

b. Symbols.

(1) Source Maintenance and Recoverability Code.

(a) Technical Service Basic Number Code.

9 Ordnance Corps.

(b) Source Code.

P Applied to repair parts which are high mortality parts, procured by technical services, stocked in and supplied from the technical service depot system, and authorized for use at indicated maintenance echelons.

(c) Maintenance Code.

F Field Maintenance (3rd echelon).

(2) Miscellaneous Symbols.

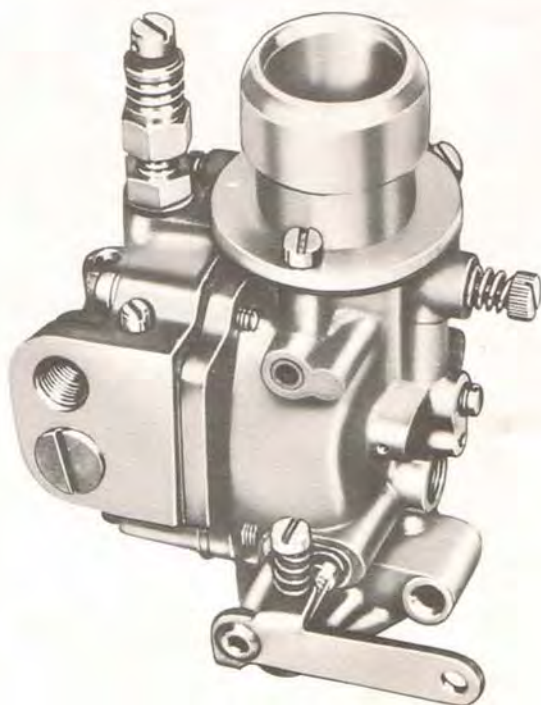
≠ As required.

5. SUGGESTIONS AND/OR RECOMMENDATIONS. Notice of changes, additions, deletions, or other corrections will be forwarded through appropriate channels on DA Form 2028 to the addressees listed therein.

6. MANUFACTURER'S SYMBOLS.

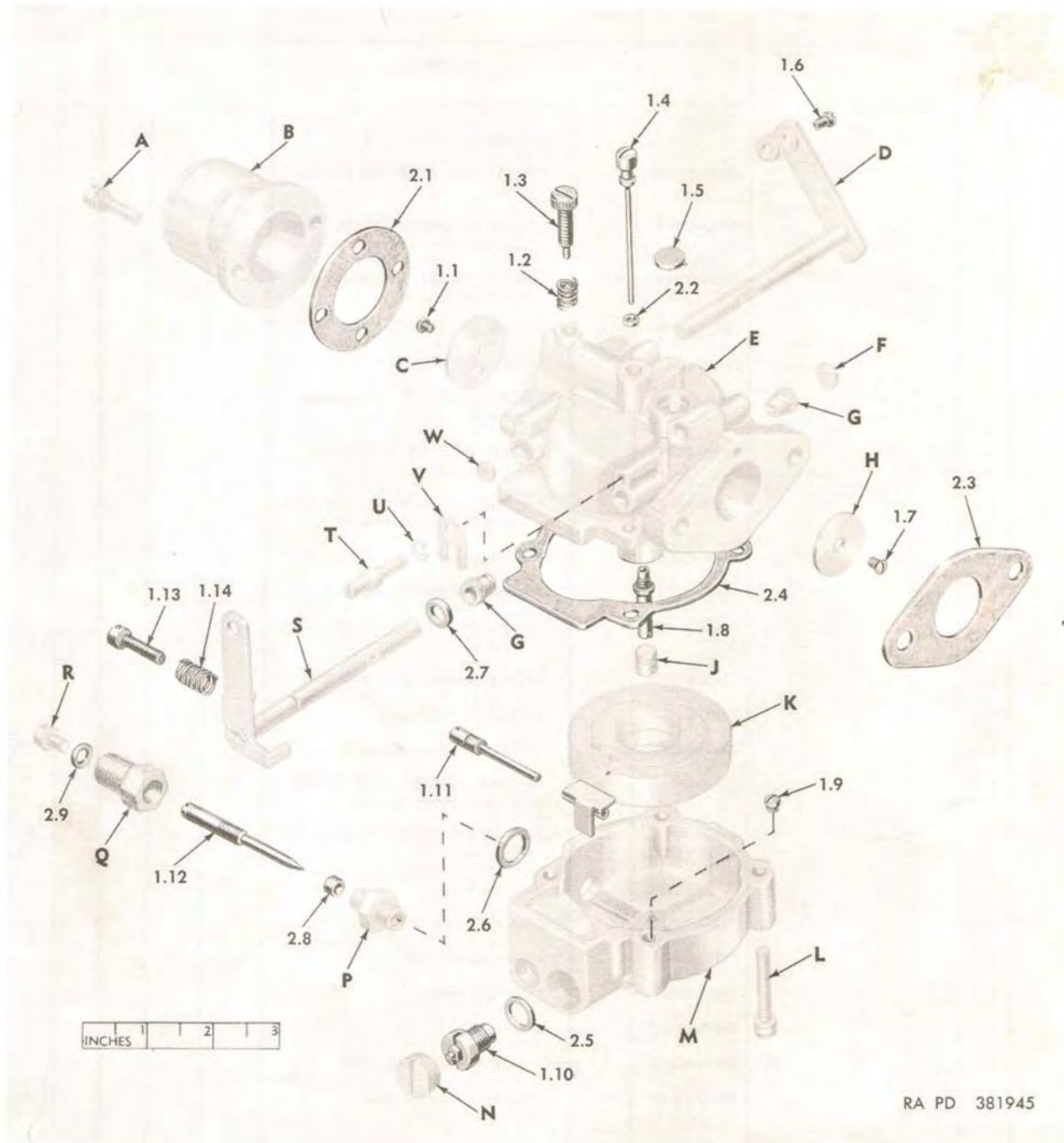
<u>Symbol</u>	<u>Former Symbol</u>	<u>Manufacturer</u>
78480	TL	Tillotson Mfg Co
94537	WO	Willys-Overland Motors, Inc

(1) ILLUSTRATIONS		(2) FEDERAL OR TECHNICAL SERVICE STOCK NO.	(3) ORDNANCE OR MFRS' PART NUMBER	(4) SOURCE, MAINT. AND RECOVER- ABILITY CODE	(5) DESCRIPTION	(6) UNIT OF ISSUE	(7) QTY INC IN UNIT	(8) FIELD MAINT 15-DAY LEVEL PER 100 M. I.		(9) DEPOT MAINT. GUIDE PER 100 M. I. (Per ECU)
FIG NO. (a)	ITEM NO. (b)							3rd Ech (Dir. Sup.)	4th Ech (Wsy. Sup.)	
1		2910-607-3530	78480-MD107A 7046977		SECTION II SUPPLY ITEMS  CARBURETOR, FLOAT: assy (Refer to TM 9-2805-211-35P for listing of CARBURETOR, assy and attaching and associated external parts)					



RA PD 381946

Figure 1. Carburetor, Float: Assembly - 2910-607-3530



RA PD 381945

Figure 2. Carburetor, Float: Assembly - exploded view.

(1) ILLUSTRATIONS		(2) FEDERAL OR TECHNICAL SERVICE STOCK NO.	(3) ORDNANCE OR MFRS' PART NUMBER	(4) SOURCE, MAINT. AND RECOVER- ABILITY CODE	(5) DESCRIPTION	(6) UNIT OF ISSUE	(7) QTY INC IN UNIT	(8) FIELD MAINT 15-DAY LEVEL PER 100 M.I.		(9) DEPOT MAINT. GUIDE PER 100 M. I. (5th Edn)
FIG NO. (a)	ITEM NO. (b)							3rd Edn (Dir. Sup.)	4th Edn (Hyv. Sup.)	
SUPPLY ITEMS										
2		2910-606-9485	94537-917847 7331581	9-P-F	PARTS KIT: carburetor	10	≠	.4	.4	40
			94537-917846		Composed of:					
			78480-08942		1 GASKET AND PREFORMED PACKING SET					
2	1.1		78480-08942		1 SCREW, ASSEMBLED WASHER: rd-hd, split lock washer (choke valve)					
2	1.2		78480-05725		1 SPRING, HELICAL COMPRESSION: idle adjusting screw					
2	1.3		78480-06910		1 SCREW, idle adjusting					
2	1.4		78480-08515		1 TUBE, idle					
2	1.5		78480-02531		1 PLUG, expansion, S, 3/8 dia (body channel)					
2	1.6		78480-058		1 SCREW, MACHINE: fil-hd (choke wire retaining)					
2	1.7		78480-08942		1 SCREW, ASSEMBLED WASHER: rd-hd, split lock washer (throttle valve)					
2	1.8		78480-011291		1 NOZZLE, main					
2	1.9		78480-03311		1 SCREW, fuel level bowl plug					
2	1.10		78480-011290		1 SEAT ASSEMBLY: inlet needle spring, w/GASKET					
2	1.11		78480-07901		1 SCREW, special, pinion float level					
2	1.12		78480-011292		1 SCREW, main adjusting					
2	1.13		78480-05095		1 SCREW, idle speed regulating					
2	1.14		78480-0788		1 SPRING, HELICAL, COMPRESSION: idle speed regulating screw					
2	2	2910-606-9484	94537-917846 7331580	9-P-F	GASKET AND PREFORMED PACKING SET: carburetor	10	≠	.2	.2	20
					Composed of:					
2	2.1		78480-09462		1 GASKET, air horn					
2	2.2		78480-07900		1 GASKET, idle tube					
2	2.3		78480-05591		1 GASKET, flange					
2	2.4		78480-07903		1 GASKET, body					
2	2.5		78480-02510		1 GASKET, inlet needle seat					
2	2.6		78480-0676		1 GASKET, adapter to bowl					

TAC FORM 93 (One Time)  
30 OCT 57

Army - OTAC - Detroit



(1) ILLUSTRATIONS		(2) FEDERAL OR TECHNICAL SERVICE STOCK NO.	(3) ORDNANCE OR MFRS' PART NUMBER	(4) SOURCE, MAINT. AND RECOVER- ABILITY CODE	(5) DESCRIPTION	(6) UNIT OF ISSUE	(7) QTY INC IN UNIT	(8) FIELD MAINT 15-DAY LEVEL PER 100 M. I.		(9) DEPT MAINT. GUIDE PER 100 M. I. (S (5th Ed))
FIG NO. (a)	ITEM NO. (b)							3rd Ech (Dir. Sup.)	4th Ech (Mty. Sup.)	
		2910-606-9484	94537-917846 7331580		SUPPLY ITEMS - Continued GASKET AND PREFORMED PACKING SET: carburetor - Continued					
2	2.7		78480-011072		1 SEAL, throttle valve shaft					
2	2.8		78480-0705		1 PACKING, main adjusting screw					
2	2.9		78480-0665		1 GASKET, main adjusting plug screw					
					NON-SUPPLY ITEMS					
2	A		78480-08315		SCREW, ASSEMBLED WASHER: fil-hd, split lock washer (horn to body)		2			
2	B		78480-011295		HORN, air		1			
2	C		78480-08862		VALVE, choke		1			
2	D		78480-011348		SHAFT, choke lever, assy		1			
2	E		78480-011302		BODY, upper		1			
2	F		78480-03489		PLUG, throttle valve shaft bearing		1			
2	G		78480-09780		BEARING, throttle valve shaft		2			
2	H		78480-08646		VALVE, throttle		1			
2	J		78480-02395		PLUG, special, fil-hd, slotted (main nozzle channel)		1			
2	K		78480-011294		FLOAT, fuel level		1			
2	L		78480-06062		SCREW, ASSEMBLED WASHER: fil-hd, split lock washer (bowl to body)		4			
2	M		78480-08332		BOWL, fuel level		1			
2	N		78480-07896		PLUG, hdls, slotted (fuel level bowl)		1			
2	P		78480-0702		ADAPTER, main adjusting screw		1			
2	Q		78480-02695		NUT, special, main adjusting screw		1			
2	R		78480-02698		SCREW, plug, main adjusting screw nut		1			
2	S		78480-011299		SHAFT, throttle valve, assy		1			
2	T		78480-09901		PIN, throttle stop		1			
2	U		78480-0992 106496		WASHER, LOCK: split, med, S, plain fin., no. 8 screw size (throttle valve shaft clip)		1			
2	V		78480-09678		CLIP, retainer, throttle valve shaft		1			
2	W		78480-02519		PLUG, expansion, choke lever shaft		1			

By Order of *Wilber M. Brucker*, Secretary of the Army:

MAXWELL D. TAYLOR,  
*General, United States Army,*  
*Chief of Staff.*

Official:

HERBERT M. JONES,  
*Major General, United States Army,*  
*The Adjutant General.*

DISTRIBUTION:

*Active Army:*

ASA (2)	Ord Tk Autmv Comd (30)
CNGB (1)	Gen Depots (2)
Technical Stf, DA (1) except CofOrd (19)	Ord Sec, Gen Depots (5)
Ord Bd (2)	Ord Depots (10) except Rossford Ord Depot (12), Anniston Ord Depot (18)
US ARADCOM (2)	Ports of Emb (OS) (2)
Rgn, US ARADCOM (2)	Trans Terminal Comd (2)
OS Maj Comd (2)	Army Terminals (2)
Log Comd (3)	OS Sup Agcy (1)
MDW (1)	Ord PG (10)
Armies (3)	Ord Arsenal (5) except Raritan Arsenal (103), Frankford Arsenal (20), Benicia Arsenal (20)
Corps (2)	Ord Fld Maint Shops (2)
Div (2)	Mil Dist (1)
Ord Gp (2)	Sectors, USA Corps (Res) (1)
Ord Bn (2) except TOE 9-45 (1)	USA Corps (Res) (1)
Ft & Camps (2) except Ft Bragg (4), Ft Hood (9), Ft Sill (9), Ft Bliss (9), Ft Sam Houston (9)	Ord Proc Dist (10)
Svc Colleges (2)	MAAG (1)
Br Svc Sch (2) except USA Ord Sch (50)	Mil Mis (1)
PMST Sr Div Ord Units (1)	JBUSMC (2)
Ord Ammo Comd (1)	JUSMAG (Greece) (2)
	Fld Comd, AFSWP (1)

NG: State AG (6); units—same as Active Army except allowance is one copy to each unit.

USAR: None.

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



TM 9-2910-202-35P FIELD AND DEPOT MAINTENANCE REPAIR PARTS ALLOWANCES FOR  
CARBURETOR—1958