

TM 9-2920-205-35P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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FIELD AND DEPOT MAINTENANCE  
REPAIR PARTS ALLOWANCES

FOR

MAGNETO 2920-698-2931  
(J. I. CASE MODEL NO. 48)

END ITEM APPLICATION TM 9-2320-213

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HEADQUARTERS, DEPARTMENT OF THE ARMY  
JUNE 1958

TECHNICAL MANUAL }  
 No. 9-2920-205-35P }

HEADQUARTERS,  
 DEPARTMENT OF THE ARMY,  
 WASHINGTON 25, D. C., 2 June 1958

**MAGNETO 2920-698-2931**  
**(J. I. CASE MODEL NO. 48)**

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\*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 Magneto-2920-698-2931 (Case Model No. 48).

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 7-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 Manufacturers' 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 PF. 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) Items not authorized for stockage but required to perform maintenance authorized by the pertinent maintenance allocation charts (Appendix II, TM 9-8034-20) and that are not normally stocked, are listed with no quantities shown. These parts will be identified by an asterisk (\*) and are to be initially requisitioned as required for immediate use only.

(4) 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.

(5) 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.

(6) 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 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. LIST OF ABBREVIATIONS AND SYMBOLS.

a. Abbreviations.

al	aluminum
alloy-S	alloy steel
cd	cadmium
cd-pltd	cadmium plated
ck	countersunk
cop-pltd	copper plated
dir	direct
Ech	Echelon
e.g.	for example
fil-hd	fillister head
FM	Field Manual
hdls	headless
hex-hd	hexagon head
hvy	heavy
id	inside diameter
inc	incorporated
lt	light
maint	maintenance
mfrs	manufacturers
MI	Major Items
NC	American National Coarse Thread
NF	American National Fine Thread
no.	number(s)
od	outside diameter
ORD	Ordnance
oval-pt	oval point
qty	quantity
rd	round
retn	retaining

S	steel
SM	Supply Manual
sr	single row
stls-S	stainless steel
sup	support
thk	thick(ness)
TM	Technical Manual
UNC	Unified Coarse Thread
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.

O Organizational Maintenance (1st and 2nd echelon).

F Field Maintenance (3rd echelon).

(2) Miscellaneous Symbols.

≠ As required.

\* Indicates items authorized for replacement, but not authorized for stock.

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.

Symbol	Former Symbol	Manufacturer
10988	CK	J I Case Co
24617	GM	General Motors Corp
43334	ND	New Departure Div (General Motors Corp)
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. (S) (S/A, ECH)
FIG NO. (a)	ITEM NO. (b)							3rd Ech (Dir. Sup.)	4th Ech (Inv. Sup.)	
1		2920-698-2931	94537-907429 7966588		SECTION II SUPPLY ITEMS  MAGNETO, IGNITION: assy (Refer to TM 9-2805-211-35P for listing of MAGNETO, assy and attaching and associated external parts)					

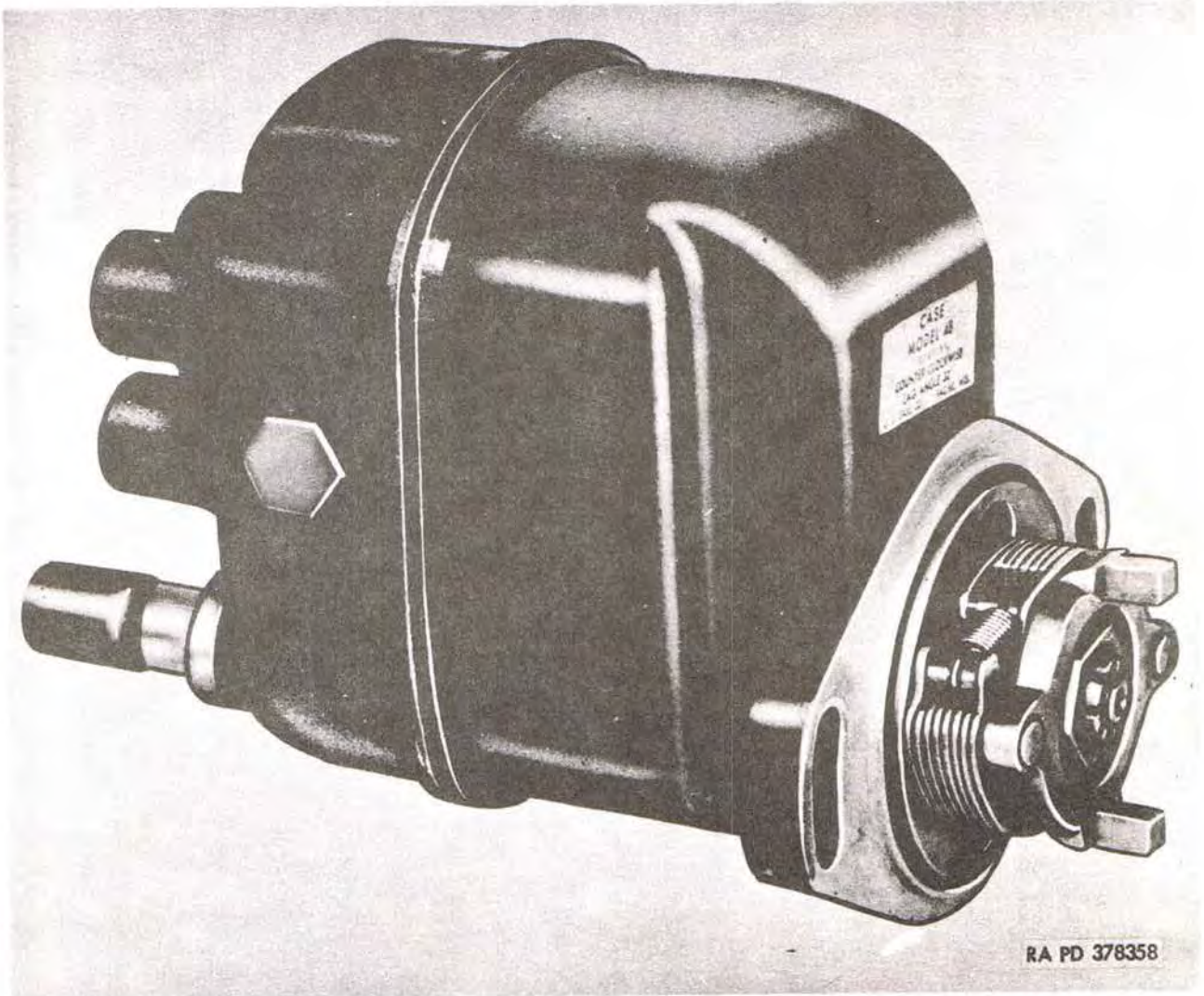
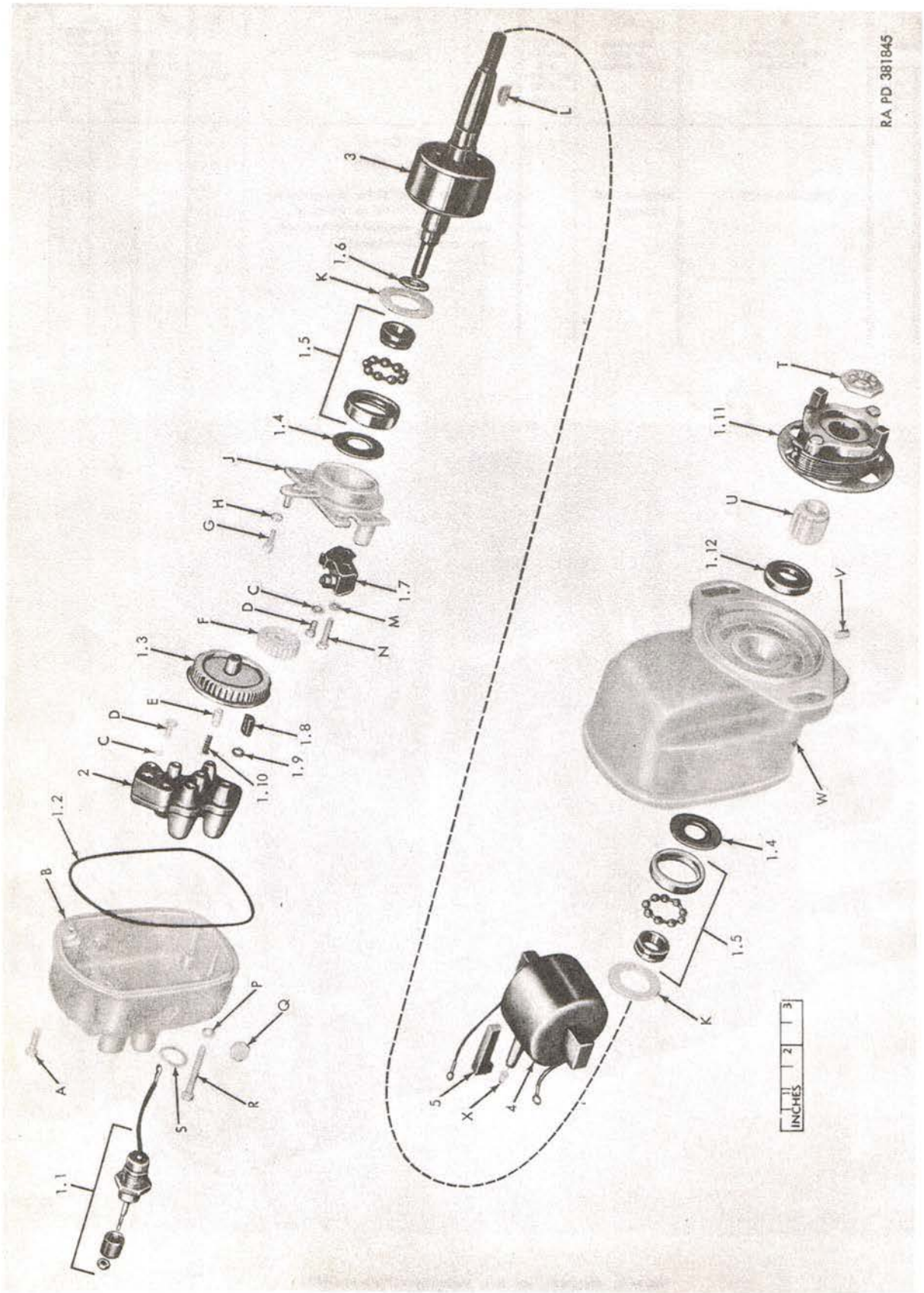


Figure 1. Magneto, Ignition: Assembly - 2920-698-2931



RA PD 381845

Figure 2. Magneto, Ignition: Assembly - exploded view.

(1) ILLUSTRATIONS		(2) FEDERAL OR TECHNICAL SERVICE STOCK NO.	(3) ORDNANCE OR AFPS' 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. (5% ECH)
FIG NO. (a)	ITEM NO. (b)							3rd Ech (Dir. Sup.)	4th Ech (Try. Sup.)	
SUPPLY ITEMS										
2	1	2920-593-6435	94537-916851 5702459	9 P F	PARTS KIT, MAGNETO: major service	1	≠	.2	.2	20
					Composed of:					
2	1.1		10988-M1184		1 CONDENSER, w/SHELL and NUT, assy					
2	1.2		10988-023-46		1 GASKET (PACKING), housing (0.062 thk)					
2	1.3		10988-15-46A		1 DISK AND GEAR, rotor					
2	1.4		10988-0337 JM		2 WASHER, ball bearing, stepped, 5, 0.605 id, 1.375 od					
2	1.5		43334-20202E		2 BEARING, BALL, ANNULAR: (angular contact, sr, lt, 0.5906 bore, 1.3780 od, 0.356 thk)					
2	1.6		10988-0132CM		3 SHIM, ball bearing, 5, 0.593 od, 0.843 id, 0.005 thk					
2			10988-M1201		1 KIT, contact point					
					Composed of:					
2	1.7		10988-M1182		1 BREAKER, assy					
2	1.8		10988-M1185		1 CAM, breaker					
2	1.9		10988-022-46		1 RING, retn, rd, 0.218 id, 0.258 od, 0.020 thk					
2	1.10		10988-07-46		5 SPRING, HELICAL, COMPRESSION: stls-S (brush)					
2	1.11		10988-M1156		1 ADVANCE, assy					
2	1.12		10988-0185 JM		1 SEAL, plain, 0.5906 id, 1.128 od, 1/4 thk (bearing)					
2		2920-593-6436	94537-917179 5702460	9 P O	PARTS KIT, MAGNETO: minor service	10	≠	.3	.2	100
					Composed of:					
2	1.1		10988-M1184		1 CONDENSER: w/SHELL and NUT, assy					
2	1.2		10988-023-46		1 GASKET (PACKING), housing (0.062 thk)					
2			10988-M1201		1 KIT, contact point					
					Composed of:					
2	1.7		10988-M1182		1 BREAKER, assy					
2	1.8		10988-M1185		1 CAM, breaker					
2	1.9		10988-022-46		1 RING, retn, rd, 0.218 id, 0.258 od, 0.020 thk					

(1) ILLUSTRATIONS		(2) FEDERAL OR TECHNICAL SERVICE STOCK NO.	(3) ORDNANCE OR AFPS' 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. (3 5th ECH)
FIG NO. (a)	ITEM NO. (b)							3rd Ech (Dir. Sup.)	4th Ech (Vvy. Sup.)	
SUPPLY ITEMS - Continued										
2	2	2520-305-8368	10988-3-46A 7998701	9-P-F	DISTRIBUTOR BLOCK: magneto	4	1	.2	.2	10
2	3	2920-593-6439	10988-M1153 7998702	9-P-F	ROTOR, MAGNETO: assy	5	1	.2	.2	10
2	4	2920-593-6433	10988-11-46A 7998703	9-P-F	COIL, MAGNETO	8	1	.2	.2	8
2	5	2920-593-6437	10988-1-41 7998700	9-P-F	WEDGE, COIL	12	2	*	*	12
NON-SUPPLY ITEMS										
2	A		10988-033-46		SCREW, SPECIAL: fil-hd, ck, S, cd-pltd, no. 10-24-2A x 3/4 (housing)		2			
2	B		10988-M1183		HOUSING, magneto		1			
2	C		131182		WASHER, LOCK: split, lt, S, cd- or zn- pltd, no. 8 screw size (distributor block)		3			
2	D		131963		SCREW, MACHINE: fil-hd, S, cd- or zn- pltd, no. 8 (0.164)-32NC-2A x 3/8 (distributor block)		3			
2	E		10988-06-46		BRUSH, magneto		5			
2	F		10988-015-46		GEAR, drive, magneto rotor gear		1			
2	G		173260		SCREW, MACHINE: fil-hd, S, cd- or zn- pltd, no. 8 (0.164)-32NC-2A x 9/16 (bearing plate)		4			
2	H		131182		WASHER, LOCK: split, lt, S, cd- or zn- pltd, no. 8 screw size (bearing plate)		4			
2	J		10988-28-46A		PLATE, bearing		1			
2	K		10988-0341 JM		WASHER, SPRING TENSION: S, 0.886 id, 1.373 od (bearing locking)		2			
2	L		124543		KEY, WOODRUFF: alloy-S, 1/8 x 1/2 (no. 404 or 3) (advance assy)		1			
2	M		10988-013-41		WASHER, FLAT: S, cop-pltd, 0.171 id, 0.375 od, 0.031 thk (breaker)		1			
2	N		10988-0369 JM		SCREW, CAP: fil-hd, S, cop-pltd, 8-32-SAE3 (breaker)		1			
2	P		10988-011-46		SEAL, neoprene or rubber, 1/4 id, 15/32 od, 1/16 thk (wire outlet)		4			
2	Q		10988-M1075		PLUG, automotive, hex-hd, al, 11/16-24 (magneto housing)		1			
2	R		10988-034-46		SCREW, SPECIAL: fil-hd, ck, S, cd-pltd, no. 10-24-2A x 1-3/4 (magneto housing)		2			



(1) ILLUSTRATIONS		(2) FEDERAL OR TECHNICAL SERVICE STOCK NO.	(3) ORDNANCE OR AFRES' 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. (3) (5th EDITION)
FIG NO. (a)	ITEM NO. (b)							3rd Ech (Dir. Sup.)	4th Ech (Mty. Sup.)	
NON-SUPPLY ITEMS - Continued										
2	S		10988-012-46		SEAL, ring, condenser (neoprene)		1			
2	T		10988-05-48		NUT, LOCK, SPECIAL: S, cd-pltd, 3/8-24NF-3 (advance assembly)		1			
2	U		10988-M1166		HUB, advance		1			
2	V		24617-109140		SETSCREW, hdls, oval-pt, S, cd- or zn- pltd, 1/4-20UNC-2A x 1/4 (magneto housing)		1			
2	W		10988-M1148		HOUSING, magneto		1			
2	X		10988-031-46		SPRING, high tension lead		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,*  
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Sectors, USA Corps (Res) (1)  
MAAG (1)  
Mil Mis (1)  
JBUSMC (2)

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.



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MAGNETO—1958