

TM 9-2805-211-35P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

FIELD AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

ENGINE, GASOLINE:

AO-53 (2805-698-277)

AND

AO-53-1 (2805-955-2009)

END ITEM APPLICATION:

TRUCK, PLATFORM UTILITY:

1/2-TON, 4 x 4,

M274 (2320-049-4804)

AND

M274A1 (2320-064-6373)



HEADQUARTERS, DEPARTMENT OF THE ARMY

FEBRUARY 1964

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TECHNICAL MANUAL

No. 9-2805-211-35P

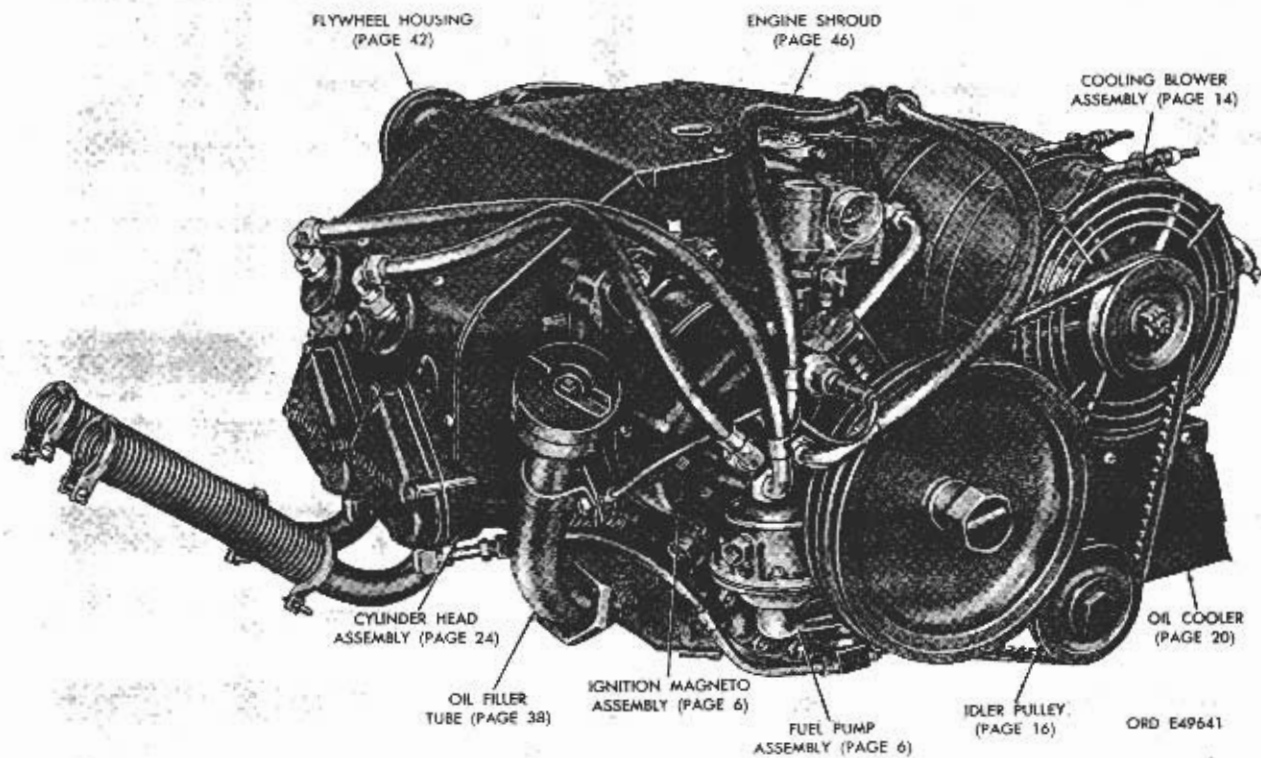
HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D. C., 20025, 10 February 1964FIELD AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FORENGINE, GASOLINE:
AO-53 (2805-698-0277)
AND
AO-53-1 (2805-955-2009)

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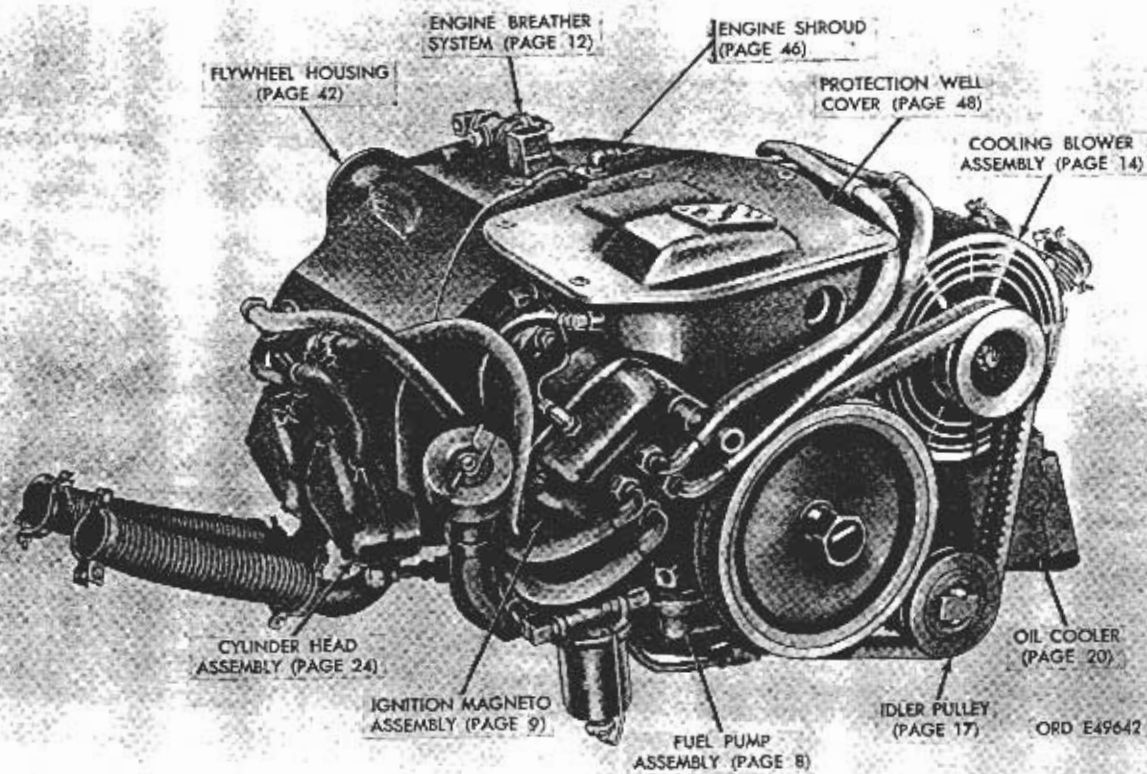
This manual supersedes TM 9-2805-211-35P, dated 4 June 1958.

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ENGINE ASSEMBLY (MODEL A0-53) - VISUAL TABLE OF CONTENTS (1 OF 2).



ENGINE ASSEMBLY (MODEL A0-53-1) - VISUAL TABLE OF CONTENTS (2 OF 2).

SECTION I—PREFACE

1. GENERAL.

a. This manual is an illustrated list of all repair parts and special tools with the estimated quantities of component parts and equipment authorized and stocked for support of field and depot maintenance and rebuild of the Engine and Clutch Model AO-53, Federal Stock No. 2805-698-0277, and Model AO-53-1, Federal Stock No. 2805-955-2009.

b. For fifth echelon, this list serves as a guide for recommended repair parts for the rebuild of 100 major components and/or major items.

c. The non-supply items are not stocked for issue and are contained herein for identification only.

Note. Every individual part is not necessarily stored by itself; many parts are stored as authorized kits, sets, or assemblies. Such items are indicated herein. Their components are listed individually. Components of an assembly are bracketed to indicate their relationship in the assembly, whereas components of kits or sets are indicated by their index numbers when the kit or set is included in an illustration; i.e., each component bears the same main index number as the kit or set but has a point number (e.g., .1, .2, etc.) added to the main number to differentiate between components. However, when a complete illustration consists only of the components of a kit or set, these components will bear different main index numbers.

d. For prices of Ordnance items listed herein, see the appropriate supply manual of the SM 9-2 series, Stock List of All Items - Price List. Prices of items that are the responsibility of materiel agencies other than Ordnance may be obtained from the appropriate type 2 supply manuals from those agencies.

e. Additional applications of items in this manual are listed in the supply manuals of the SM 9-3 series, Stock List of Repair Parts.

2. ILLUSTRATION AND TEXT RELATIONSHIP.

a. Illustrated supply items are keyed by numbers to their text listing. In most cases, the illustration and its listing will be on the same or facing page.

b. Non-illustrated supply items are listed under the text of the illustrated

assembly to which they are most closely related.

c. Non-supply items are not listed in the text but will be identified by name and part number in a legend on the illustration and the identifying key number will be encircled to indicate non-supply status.

3. REQUISITION NOTES.

a. 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.

b. When requisitioning an item, the requesting agency will order the listed item. However, the supplying agencies will take necessary action to issue the exhaust stock item until stock is exhausted, whether it be an individual item, kit, set, or assembly.

4. EXPLANATION OF COLUMNS.

a. Illustrations. This column indicates the figure number of the illustration that depicts the item. When more than one item appears on the illustration, the item number is also indicated.

b. Source, Maintenance, and Recoverability Code. This column lists a code that indicates the selection status and source of supply of the repair part, the lowest echelon authorized to install or manufacture the repair part, and the recoverability and expendability aspects of the repair part. An example of this code is P-O-R. The "P" indicates that the item is a mission stockage list repair part procured and stocked on a national program basis, the "O" indicates the repair part is authorized to organizational echelons, and the "R" indicates that the repair part is an expendable, recoverable item. When repair parts supply responsibility has been assigned to a materiel agency other than Ordnance, the basic number of the supplying materiel agency is listed in column 2a, for example "10" for a Quartermaster Materiel item. Refer to paragraph 10 for an explanation of all materiel codes appearing in this manual.

c. Federal Stock Number. This column lists the Federal Stock Number assigned by the Cataloging Division, Defense Logistics Service Center.

d. Description. The Federal item name (shown in capital letters) and any addi-

tional description required for supply operations are listed in this column. All dimensions listed are in inches unless otherwise specified. For further identification, the materiel agency or manufacturer's part number is parenthetically listed at the end of each nomenclature.

e. Unit of Issue. The Unit of Issue column lists the actual unit of issue for each item (ea, ft, bulk, etc.).

f. Quantity Incorporated in Unit. The quantity shown in this column indicates the number of the listed item required for the particular use indicated. This quantity does not reflect the total quantity of the part required for the engine since the part may have other functional uses.

g. 15-day Maintenance Allowance Per 100 Major Items. No quantities are listed in these columns. Refer to TM 9-2300-223-34P for allowance factors for items to be stocked. If an item appears herein and is not listed in TM 9-2300-223-34P, it can be requisitioned for immediate use or stockage in accordance with AR 711-16.

h. Depot Maintenance Guide Per 100 Major Items.

- (1) This column lists the guide quantity factors for the repair parts recommended for the rebuild of 100 major components and/or major end items.
- (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) Additional repair parts which may be required for performing authorized depot maintenance are listed with no recommended quantities shown. These parts are identified by an asterisk (*) in the allowance column. If not obtainable by reclamation, fabrication, or local procurement, these parts will be requisitioned as required for immediate use only.

5. HOW TO FIND PARTS.

Parts may be located if one of the following identifying factors are known. All references list the page numbers on which the assembly or parts may be found.

a. Major Component, Assembly, or Location. Refer to Visual Table of Contents on pages iii and iv.

b. Function, Use, or Location. Refer to the Table of Contents which lists the titles of all illustrations.

c. Nomenclature (basic noun name). Refer to the Alphabetical Index on page 53.

d. Federal Stock Number. Refer to the Federal Stock Number Index on page 50.

e. Materiel Agency or Manufacturer's Part Number. Refer to the Materiel Agency and Manufacturer's Part Number Index on page 50.

6. ATTACHING PARTS.

In some cases, non-illustrated, attach-

ing, and/or closely related items are listed indented directly beneath the items to which they pertain.

7. PERTINENT PUBLICATIONS.

TM 9-2320-213-34	Field Maintenance for 1/2-ton, 4 x 4, Platform Utility Truck, M274 and M274A1
TM 9-2320-213-34P	Field Maintenance Repair Parts and Special Tools for 1/2-ton, 4 x 4, Platform Utility Truck, M274 and M274A1
TM 9-2910-202-35	Field and Depot Maintenance for Carburetor - 2910-607-3530 (Tillotson Model No. MD-107A)
TM 9-2910-202-35P	Field and Depot Maintenance Repair Parts Allowances for Carburetor - 2910-607-3530 (Tillotson Model No. MD-107A)
TM 9-2910-203-35P	Field and Depot Maintenance Repair Parts Allowances for Fuel Pump - 2910-587-1430 (AC Model No. 4426-FD)
TM 9-2920-205-35	Field and Depot Maintenance for Magneto - 2920-698-2931 (J. I. Case Model No. 48)
TM 9-2920-205-35P	Field and Depot Maintenance Repair Parts Allowances for Magneto - 2910-698-2931 (J. I. Case Model No. 48)
TM 9-7101-35	Field and Depot Maintenance for Engine and Clutch - 796680 (Model No. A0-53) (1/2-ton, 4 x 4, Platform Utility Truck, M274 and M274A1)
TM 9-7503-35	Field and Depot Maintenance for Fuel Pump - 5702445 (AC Model No. 4426-FD)

8. SPECIAL INFORMATION.

Throughout this manual, in order to eliminate repetitious descriptions of parts, an indention style has been incorporated. Whenever a particular part has a description that is common for both

the Model A0-53 and A0-53-1 engines, but may have a different part number, the models and their respective part numbers will be indented immediately below the description of the item.

9. ABBREVIATIONS AND SYMBOLS.

a. Abbreviations.

adj	adjust, adjustable, adjusting
alw	allowance
assy	assembly(ies)
awg	American Wire Gage
cd	cadmium
cd- or zn-pltd	cadmium or zinc plated
cd-pltd	cadmium plated
Corp	corporation
cross-recess-pan-hd	cross-recess pan-head
cyl	cylinder(s)
°	degree(s) (symbol)
DA	Department of the Army
deg	degree(s)
°C	degree(s) centigrade
°F	degree(s) Fahrenheit
dia	diameter
dir	direct
dld	drilled
dld-f/lkg-wire	drilled for locking wire
ea	each
ech	echelon
e.g.	for example
equip.	equipment
etc.	and so forth
ext-teeth	external teeth
exter	external
F	Fahrenheit
f/	for
fig.	figure
fil-hd	fillister head
fin.	finish
fl	flat
FM	field manual
FSN	Federal Stock Number
ft	feet (foot)
gen	general
hd	head
hex	hexagon(al)
hex-hd	hexagon head
id	inside diameter
i.e.	that is
illust.	illustration
inc	incorporated
int-teeth	internal teeth
lg	long
lh	left hand
lkg	locking
LO	lubrication order
maint	maintenance
max	maximum
MIL	military
MIL-STD-CODE	Military Standard Code
mfg	manufacturing
mfr	manufacture, manufacturer's
mm	millimeter(s)

N _____ National Thread Form
 NC _____ American National Coarse Thread
 NCS _____ National Coarse Standard
 NEF _____ American National Extra
 Fine Thread
 NF _____ American National Fine Thread
 no. _____ number(s)
 nom _____ nominal
 NPT _____ American Standard Taper
 Pipe Thread
 NPTF _____ American Standard Taper
 Pipe Thread (dryseal)
 NS _____ National Form Thread,
 Special Pitch
 od _____ outside diameter
 ORD _____ Ordnance
 oz _____ ounce(s)
 pan-hd _____ pan head
 pltd _____ plated
 psi _____ pounds per square inch
 qty _____ quantity
 rad _____ radial
 rh _____ right hand
 rpm _____ revolutions per minute
 S _____ steel
 sltd _____ slotted
 SM _____ supply manual
 spec _____ specification
 sup _____ support
 thd _____ thread(ed)(s)
 thk _____ thick
 TM _____ technical manual
 TOE _____ Table of Organization
 and Equipment
 UN _____ Unified National
 UNC _____ Unified National Coarse
 UNF _____ Unified National Fine
 w/ _____ with
 wd _____ wide(width)
 x _____ by (as in 2 x 4)
 zn _____ zinc
 zn-pltd _____ zinc plated

b. Symbols.

- † As required.
- ☆ Indicates items available as part of SET or KIT shown or separately.

10. EXPLANATION OF CODES.

a. Materiel Agency Code.

- 5 Engineer Materiel
- 11 Signal Materiel

b. Source Code.

- P Requisition from the depot system of the responsible commodity command (applies to high mortality parts).

XI Requisition next higher assembly

or component.

- C Obtain through local procurement. If not obtainable from local procurement, requisition through normal supply channels with a supporting statement of nonavailability from local procurement.

c. Maintenance Code.

- O Organizational Maintenance (2nd echelon)
- F Field Maintenance (3rd echelon)
- H Field Maintenance (4th echelon)

d. Recoverability Code.

- R Items which are economically repairable at field maintenance activities (3d and 4th echelon) and are normally furnished by supply on an exchange basis.

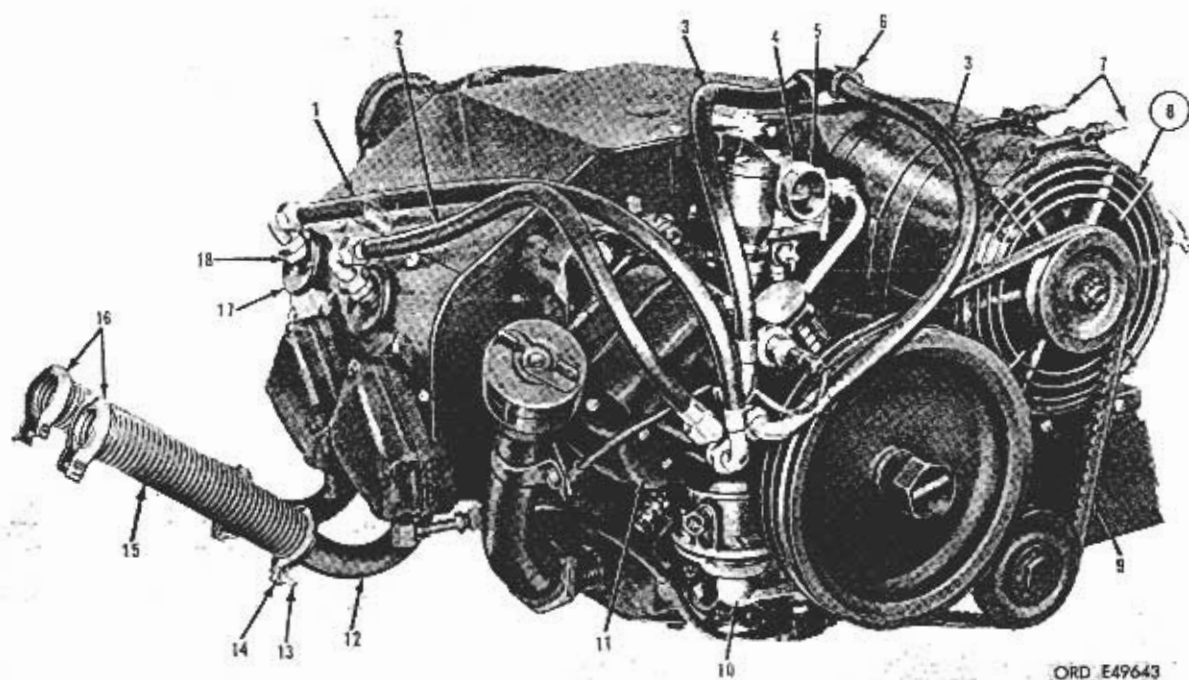
11. MANUFACTURER'S SYMBOLS.

<u>Symbol</u>	<u>Manufacturer</u>
00736	Air Maze Corp.
09033	Slick Electro, Inc.
65909	Willys Motors, Inc. (Kaiser Jeep Corp.)
80244	General Services Administration
80463	AC Spark Plug Division, General Motors Corp.
80750	Kansey Corp.
81118	Faton Manufacturing Co.
88044	Aeronautical Standards Group, Departments of Navy and Air Force
94537	Kaiser Manufacturing Corp.
98900	Military Standard

12. SUGGESTIONS AND RECOMMENDATIONS.

The direct reporting of errors, omissions, and recommendations for improving this equipment manual by the individual user, 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 this manual. The original and one copy will be forwarded direct to: Commanding General, U.S. Army Tank-Automotive Center, ATTN: SMOTA-N, Warren, Michigan, 48090. One information copy will be provided to the individual's immediate supervisor (e.g., officer, noncommissioned officer, supervisor, etc.)



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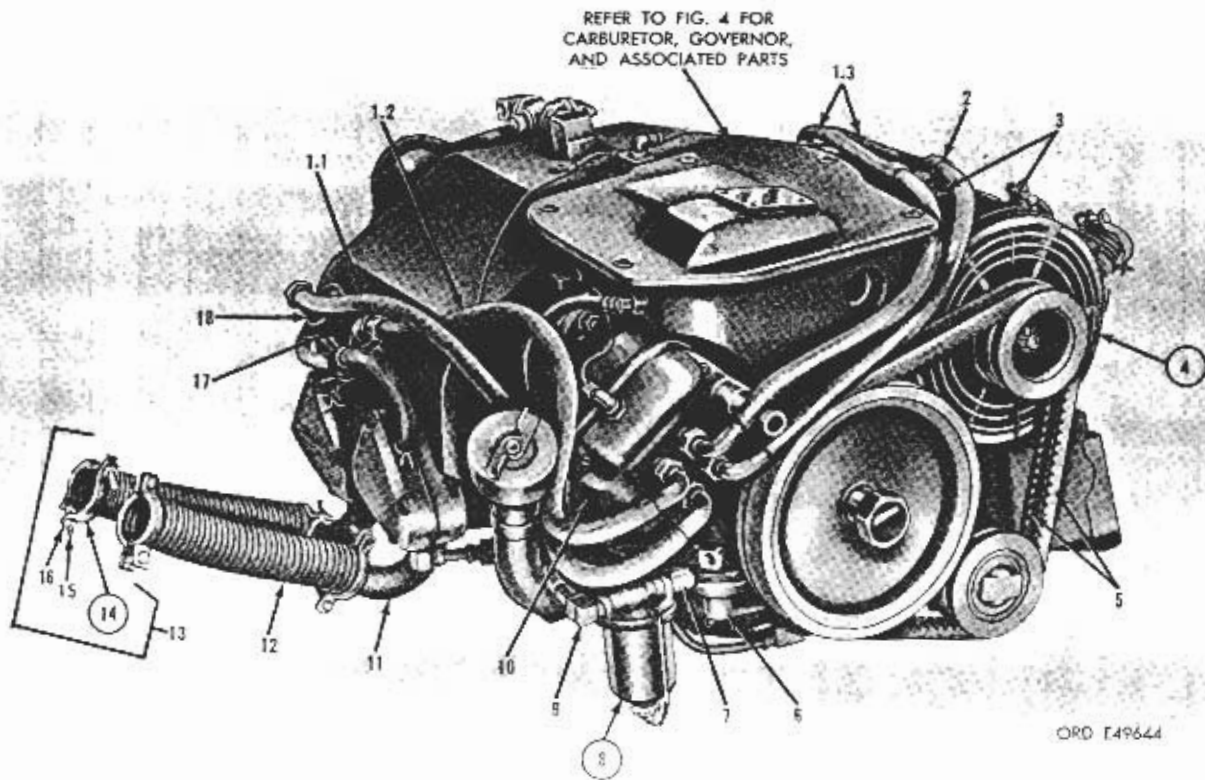
NON SUPPLY ITEM

8 - BLOWER ASSY (Refer to fig. 7 for component parts.) (7966770)

FIGURE 1. ENGINE AND ACCESSORIES (MODEL AG-53).

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT GUIDE PER 100 EQUIP 15-DAY
(a) FIG NO	(b) ITEM NO	(c) MAINT CODE	(d) SOURCE	(e) MAINT LIFE	(f) RECOVER				(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)		
SECTION II												
FIELD AND DEPOT MAINTENANCE REPAIR PARTS												
<u>Engine and Accessories (Model AO-53) (fig. 1)</u>												
1			P	P		2805-698-0277	ENGINE, GASOLINE: w/ACCESSORIES (Model AO-53) (Refer to TM 9-2320-213-34P for listing of ENGINE ASSY with attaching and associated parts.) (7966300)	ea	1		10	
	1		P	O		2920-715-9279	LEAD AND CONDUIT ASSEMBLY, ELECTRICAL: magneto to no. 4 cylinder (8744129)	ea	1		20	
	2		P	O		2920-715-9280	LEAD AND CONDUIT ASSEMBLY, ELECTRICAL: magneto to no. 2 cylinder (8744128)	ea	1		10	
	3		P	O		2920-715-9281	LEAD AND CONDUIT ASSEMBLY, ELECTRICAL: magneto to no. 1 and 3 cylinders (8744127)	ea	2		20	
	4		P	O		2990-606-9489	GOVERNOR, GASOLINE, ENGINE: (7058897) -----	ea	1		5	
			P	O		2910-607-3529	GASKET: governor mounting (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (7046974)	ea	1		20	
	5		P	O	R	2910-607-3530	CARBURETOR: assy (Refer to TM 9-2910-203-35P for component parts.) (7046977)	ea	1		10	
			P	O		2910-607-3529	GASKET: carburetor mounting (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (7046974)	ea	1			
			P	O		5310-012-0367	NUT, PLAIN, HEXAGON: 1/4-28UNF-2B (carburetor mounting) (96906-35690-425)	ea	2		20	
			P	O		5310-194-1540	WASHER, FLAT: 9/32 id, 5/8 od, 0.065 thk (carburetor mounting) (96906-15795-210)	ea	2		20	
			P	O		5310-527-3289	WASHER, LOCK: int-teeth, 1/4 bolt size (carburetor mounting) (96906-35333-23)	ea	2		20	
	6	11	P	O		5340-057-3043	CLAMP, ELECTRICAL: (573043) -----	ea	2		200	
			P	O		5305-543-2335	SCREW, ASSEMBLED WASHER: cross-recess-pan-hd, ext-teeth, no. 10-24 x 3/8 lg (188749)	ea	1		8	
			P	O		5310-044-6161	WASHER, FLAT: no. 10 screw size (446161) -----	ea	1		20	
	7		P	O		4730-569-0930	CLAMP, HOSE: (7035289) -----	ea	2		20	
	9	5	P	O		3030-698-3158	V-BELT: impeller drive (7966771) -----	ea	1		100	
	10		P	O	R	2910-587-1430	PUMP, FUEL, ENGINE: (Refer to TM 9-2910-203-35P for component parts.) (5702445)	ea	1		10	
			P	O		2910-698-2764	GASKET: fuel pump mounting (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (7966809)	ea	1		100	
			P	O		5310-012-0368	NUT, PLAIN, HEXAGON: 5/16-24UNF-2B (96906-35690-525)	ea	2		40	
			P	O		5310-639-8061	WASHER, LOCK: int-teeth, 5/16 bolt size (96906-35333-24)	ea	2		24	
			P	O		5310-616-3023	WASHER, FLAT: 5/16 bolt size (96906-15795-212)	ea	2		24	
	11		P	O		2920-678-4647	MAGNETO, IGNITION: assy (Refer to TM 9-2920-205-35P for component parts.) (8764904)	ea	1		8	
			P	O		2920-563-4418	GASKET: magneto mounting (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (8698458)	ea	1		100	
			P	O		5310-012-0368	NUT, PLAIN, HEXAGON: 5/16-24UNF-2B (96906-35690-525)	ea	2		20	
			P	O		5310-698-4005	WASHER, FLAT: 5/16 screw size (7966571) -----	ea	2		6	
			P	O		5310-639-8061	WASHER, LOCK: int-teeth, 5/16 screw size (96906-35333-24)	ea	2		20	
	12		P	O		2990-698-2218	PIPE: exhaust, assy (7966594) -----	ea	4		20	
			P	O		2805-593-6428	GASKET: exhaust flange to cylinder head (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (7998705)	ea	4		400	
			P	O		5310-698-3961	NUT, PLAIN, HEXAGON: 1/4-28 (exhaust flange to cylinder head) (7966595)	ea	8		40	
	13		P	O		5306-042-5571	BOLT, ASSEMBLED WASHER: hex-hd, ext-teeth lock-washer, no. 10-32NF-2A x 7/8 lg (425571)	ea	8		160	
	14		P	O		5310-012-0611	NUT, PLAIN, SQUARE: no. 10-32NF-2B (120611) -----	ea	8		160	
	15		P	O		4720-561-9128	EXHAUST PIPE: flexible, engine (7966457) -----	ea	4		20	
	16		P	O		5340-630-9933	STRAP, RETAINING: exhaust pipe half (7341330) -----	ea	8		80	
	17		P	O		2920-627-8325	SEAL, SPARK PLUG, ENGINE: (7059068) -----	ea	4		40	
	18		P	O		2920-726-9545	SPARK PLUG: shielded, 14 mm (96906-35909-3) -----	ea	4		600	
			P	O		5330-285-3588	GASKET: annular, 14 mm nom dia (spark plug) (150189)	ea	4		400	

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALW PER 100 EQUIP	(8) DEPOT MAINT GLIDE PER 100 EQUIP 11/11 FCH
(a) FIG NO	(b) ITEM NO	(a) MATERIAL CODE	(b) SOURCE	(c) MAINTENANCE TYPE	(d) RECOVERABILITY				(a) 3RD ECH IDR SUPP	(b) 4TH ECH IDEN SUPP	
2			P	F		2805-955-2009	<u>Engine and Accessories</u> <u>(Model A0-53-1) (fig. 2)</u> ENGINE, GASOLINE: w/ACCESSORIES (Model A0-53-1) (Refer to TM 9-2320-213-34P for listing of ENGINE ASSY with attaching and associated parts.) (65909-934982)	ea	1		10
	1		P	O		2920-996-7272	KIT, LEAD AND CONDUIT: magneto to cylinders (65909-935070) Composed of: LEAD AND CONDUIT ASSEMBLY, ELECTRICAL: mag- neto to no. 4 cylinder (65909-933964) LEAD AND CONDUIT ASSEMBLY, ELECTRICAL: mag- neto to no. 2 cylinder (65909-933963) LEAD AND CONDUIT ASSEMBLY, ELECTRICAL: mag- neto to no. 1 and 3 cylinders (65909- 933965)	ea	4		20
	1.1								1		
	1.2								1		
	1.3								2		



NON-SUPPLY ITEMS

- 4 - BLOWER ASSY (Refer to fig. 7 for component parts.) (65909-934060) 6 - FITTER ASSY (7044864)
14 - CLAMP (8744058)

FIGURE 2. ENGINE AND ACCESSORIES (MODEL A0-53-1).

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEFECT MAINT GUIDE PER 100 EQUIP (3TH ICH)
(1a) FIG NO	(1b) ITEM NO	(2a) MATER CODE	(2b) PROJ	(2c) MAINTANCE LEVEL	(2d) RECOVERABILITY					(7a) 3RD ECH FOR SUP	(7b) 4TH ECH ICHN SUP		
2	2	11	P	O		5340-057-3043	CLAMP, ELECTRICAL: (573043) -----	ea	2			200	
						5305-543-2335	SCREW, ASSEMBLED WASHER: cross-recess-pan-hd, ext-teeth, no. 10-24 x 3/8 lg (188749)	ea	1			0	
							5310-044-6161	WASHER, FLAT: no. 10 screw size (446161) ----	ea	1			20
		3		P	O		4730-569-0930	CLAMP, HOSE: (7035289) -----	ea	2			20
		5	5	P	O		3030-953-4644	V-BELT SET: impeller drive (65909-933659) -----	ea	1			100
			5	P	O		3030-698-3158	Composed of: 2 BELT: (7906771)					
		6		P	O		2910-996-3817	PUMP, FUEL, ENGINE: w/GASKET (94537-934816) -----	ea	1			10
	2910-698-2764						GASKET: fuel pump mounting (☆ GASKET SET - 2805-996-3792) (Refer to page 50.) (7906809)	ea	1			100	
				P	O		5310-012-0368	NUT, PLAIN, HEXAGON: 5/16-24UNF-2B (96906-35690-525)	ea	2			40
				P	U		5310-639-8061	WASHER, LOCK: int-teeth, 5/16 bolt size (96906-35333-24)	ea	2			24
				P	U		5310-616-3023	WASHER, FLAT: 5/16 bolt size (96906-15795-212)	ea	2			24
		7	5	P	O		4730-278-4650	ELBOW: fuel pump outlet (137422) -----	ea	1			10
							4730-285-9362	ELBOW: fuel filter inlet (116341) -----	ea	1		10	
		10		P	U		2920-996-7273	MAGNETO, IGNITION: assy (Refer to fig. 5 for component parts.) (65909-927858)	ea	1			10
							2920-563-4418	GASKET: magneto mounting (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (8698458)	ea	1		100	
							5310-012-0368	NUT, PLAIN, HEXAGON: 5/16-24UNF-2B (96906-35690-525)	ea	2		20	
							5310-698-4005	WASHER, FLAT: 5/16 screw size (7966571) -----	ea	2		6	
				P	O		5310-639-8061	WASHER, LOCK: int-teeth, 5/16 screw size (96906-35333-24)	ea	2			20
	11		P	O		2999-996-7268	PIPE: exhaust, assy (65909-927149) -----	ea	4			20	
						2805-593-6428	GASKET: exhaust flange to cylinder head (☆ GASKET SET - 2805-996-3792) (Refer to page 50.) (7998705)	ea	4		400		
						5310-698-3961	NUT, PLAIN, HEXAGON: 1/4-28 (exhaust flange to cylinder head) (7906595)	ea	8		40		
	12		P	O		4720-561-9125	EXHAUST PIPE: flexible, engine (7966957) -----	ea	4			20	
						2990-996-7269	GASKET: (65909-927148) -----	ea	8		100		
	13		P	O		2910-996-7270	CLAMP ASSEMBLY: exhaust pipe (8744059) -----	ea	8			40	
	15		P	O		5306-042-5571	BOLT, ASSEMBLED WASHER: hex-hd, ext-teeth lock-washer, no. 10-32NF-2A x 7/8 lg (475571)	ea	16			320	
	16		P	O		5310-012-0611	NUT, PLAIN, SQUARE: no. 10-32NF-2B (120611) -----	ea	16			320	
	17		P	O		2920-627-8325	SEAL, SPARK PLUG, ENGINE: (7059068) -----	ea	4			40	
	18		P	O		2920-726-9545	SPARK PLUG: shielded, 14 mm (96906-35909-3) -----	ea	4			600	
						5330-285-3588	GASKET: annular, 14 mm nom dia (spark plug) (150189)	ea	4		400		

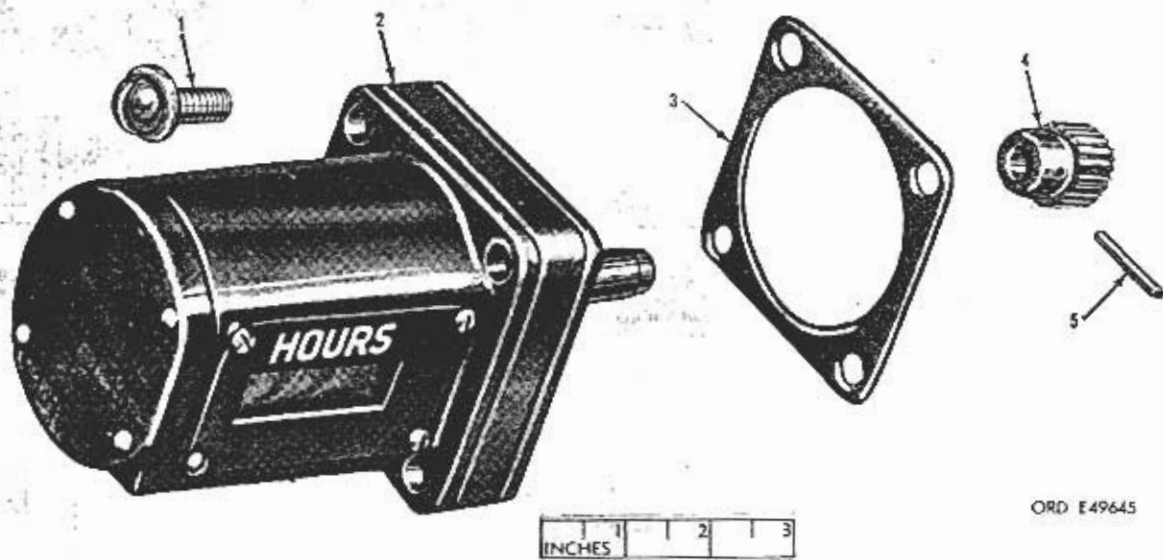
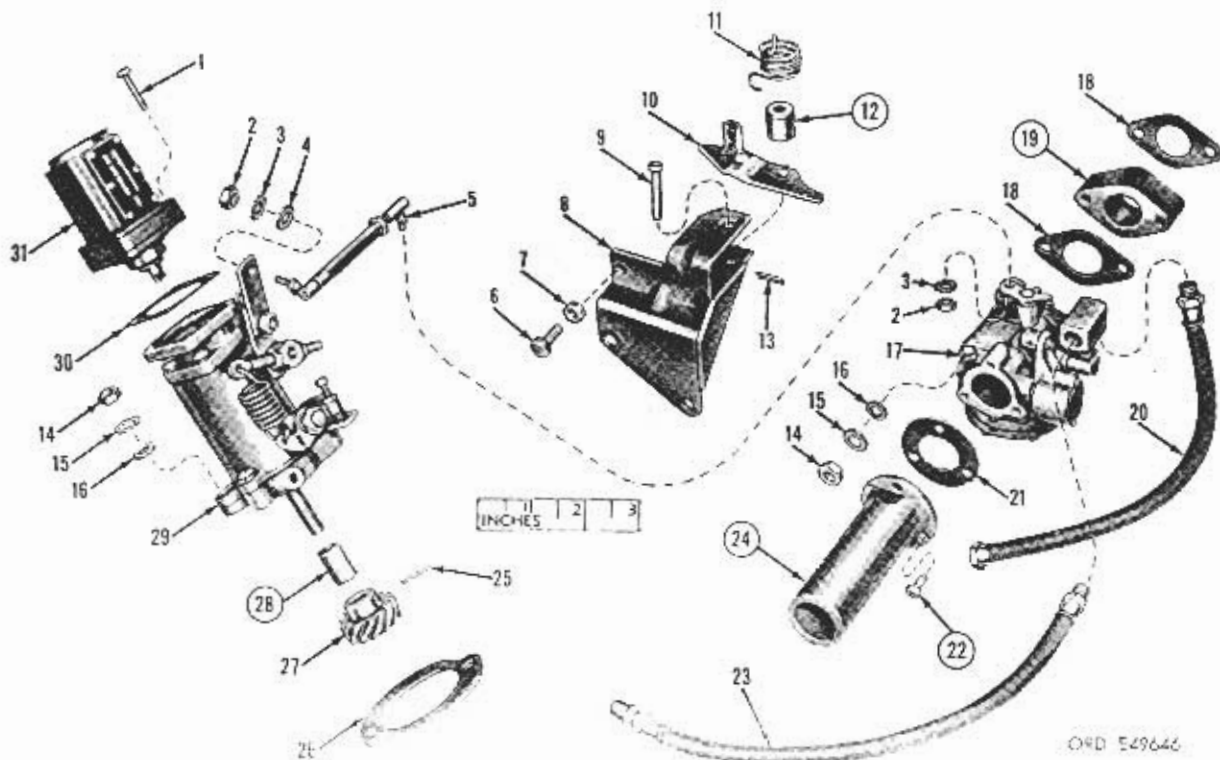


FIGURE 3. TIME TOTALIZING METER AND ASSOCIATED PARTS (MODEL AO-53) — EXPLODED VIEW.



NON SUPPLY ITEMS

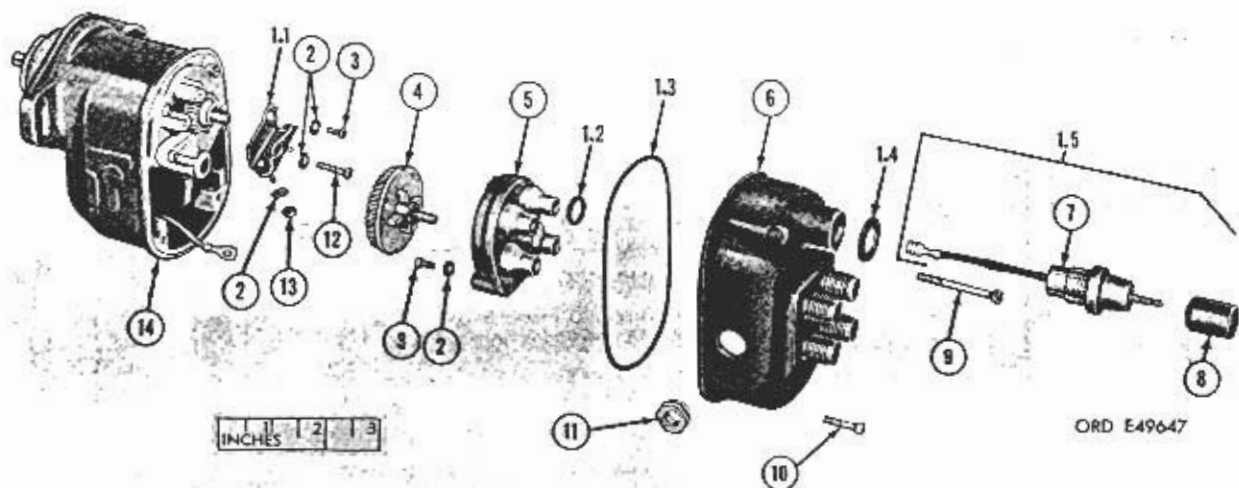
21 — SPACER (65909-926286)
 19 — SPACER (65909-427622)

22 — SCREW (454733)

24 — ADAPTER (65909-927657)
 25 — SPACER (No Number)

FIGURE 4. TIME TOTALIZING METER, GOVERNOR, CARBURETOR, AND ASSOCIATED PARTS (MODEL AO-53-1).

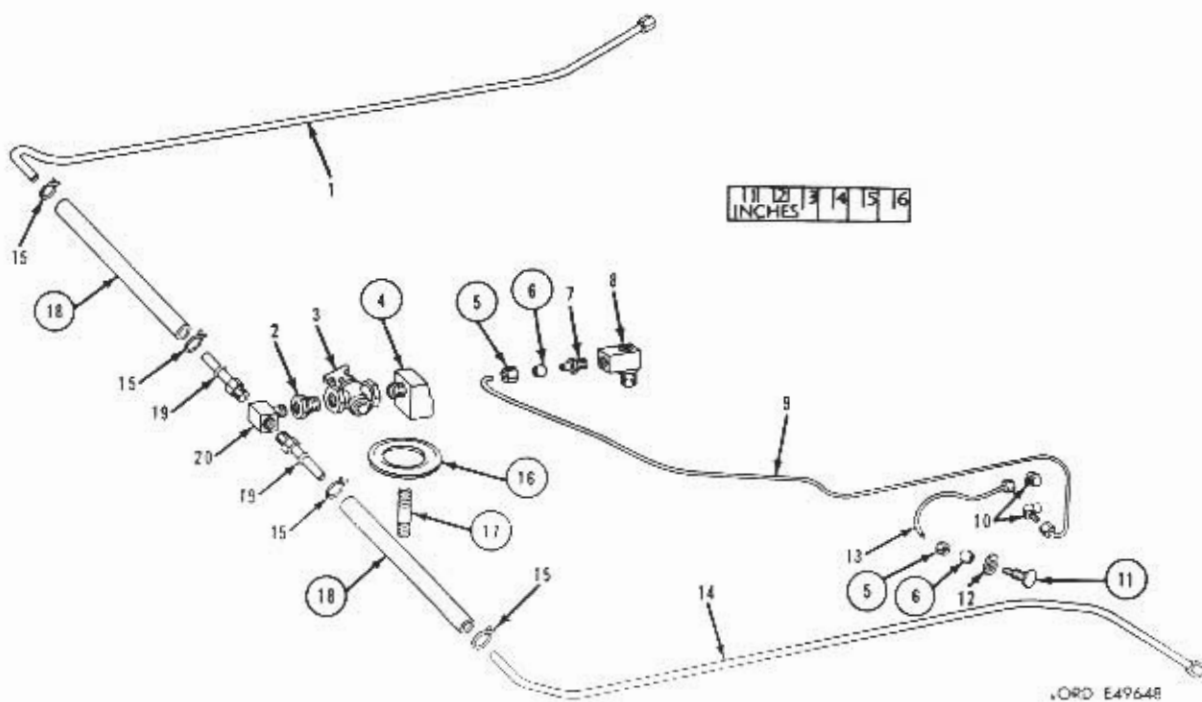
11) ILLUSTRATION		12) SOURCE, MAINT AND RECOVERABILITY CODE					13) FEDERAL STOCK NO	14) DESCRIPTION	15) UNIT OF ISSUE	16) QTY INC IN UNIT	17) 15-DAY MAINT ALW PER 100 EQUIP		18) DEPT MAINT CODE PER 100 EQUIP (5TH ECH)
11a) FIG NO	11b) ITEM NO	12a) WAREH CODE	12b) SOURCE	12c) AMBARKN TYPE	12d) RECOVER	17a) 3RD ECH (DIR SUP)					17b) 4TH ECH (GEN SUP)		
<u>Time Totalizing Meter and Associated Parts (Model AO-53) (fig. 3)</u>													
3	1		P	O		5305-285-5923	SCREW, ASSEMBLED WASHER: no. 10-32NF x 1/2 lg (454788)	ea	4			40	
	2		P	O		6645-588-0033	METER, TIME TOTALIZING: hour (Refer to fig. 4 for Model AO-53-1 METER and associated parts.) (7027382)	ea	1			12	
	3		P	O		2990-698-2889	GASKET: (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (7966819)	ea	1			100	
	4		P	O		6645-588-0027	GEAR, HELICAL: driven (hour meter) (7055956) ----	ea	1			16	
	5		P	O		5315-058-5913	PIN, SPRING: 0.094 x 1/2 lg (585913) -----	ea	1			10	
<u>Time Totalizing Meter, Governor, Carburetor, and Associated Parts (Model AO-53-1) (fig. 4)</u>													
4	1		P	O		5305-285-5293	SCREW, ASSEMBLED WASHER: cross-recess-pan-hd, int-teeth, no. 10-32NF-2A x 7/8 lg (454788)	ea	4			40	
	2		P	O		5310-012-0614	NUT, PLAIN, HEXAGON: no. 10-32NF (96906-35650-102)	ea	2			20	
	3		P	O		5310-012-7501	WASHER, LOCK: ext-teeth, no. 10 screw size (96906-35333-22)	ea	2			20	
	4		P	O		5310-044-6130	WASHER, FLAT: no. 10 screw size (446130) -----	ea	1			10	
	5		P	O		2590-996-7261	LINKAGE, RTGTD: throttle ball joint (65909-923422)	ea	1			5	
	6		P	O		5305-531-1783	SCREW, CAP, HEXAGON HEAD: 1/4-20 x 1.00 lg (96906-35291-8)	ea	1			10	
	7		P	O		5310-012-4818	NUT, PLAIN, HEXAGON: 1/4-20 (124818) -----	ea	1			10	
	8		P	O		2590-953-4883	BRACKET ASSEMBLY, BELLCRANK: (65909-927638) ----	ea	1			10	
	9		P	O		5315-954-1243	PIN, STRAIGHT, HEADED: (65909-927285) -----	ea	1			4	
	10		P	O		2590-953-4874	LEVER, BELLCRANK, FUEL CONTROL: (65909-927289) --	ea	1			10	
	11		P	O		2990-996-7261	SPRING, HELICAL, TORSION: (65909-927288) -----	ea	1			10	
	13		P	O		5315-043-5864	PIN, COTTER: 3/64 x 1/2 lg (435864) -----	ea	1			10	
	14		P	O		5310-012-0367	NUT, PLAIN, HEXAGON: 1/4-28UNF-2B (96906-35690-425)	ea	4			40	
	15		P	O		5310-527-3289	WASHER, LOCK: int-teeth, 1/4 bolt size (96906-35333-23)	ea	4			40	
	16		P	O		5310-194-1540	WASHER, FLAT: 1/4 bolt size (96906-15795-210) ---	ea	4			40	
	17		P	O		2910-996-3804	CARBURETOR: assy (65909-934247) -----	ea	1			10	
	18		P	O		2910-607-3529	GASKET: (☆ GASKET SET - 2805-996-3792) (Refer to page 50.) (7046974)	ea	2			20	
	20		P	F		2910-996-3822	HOSE ASSEMBLY: carburetor fuel return (65909-934587)	ea	1			10	
	21		P	O		2910-066-8868	GASKET: adapter to carburetor (65909-923843) ----	ea	1			5	
	23		P	O		2910-996-3823	HOSE ASSEMBLY: carburetor fuel inlet (65909-910290)	ea	1			5	
	25		P	O			PIN: gear to governor drive shaft (454573) ----	ea	1			4	
	26		P	O		2990-996-3810	GASKET: governor mounting (65909-927989) -----	ea	1			20	
	27		P	O		2990-953-4855	GEAR, HELICAL: driven (65909-919004) -----	ea	1			5	
	29		P	O		2990-996-7265	GOVERNOR, GASOLINE, ENGINE: (65909-925196) ----	ea	1			10	
	30		P	O		2990-698-2889	GASKET: hour meter mounting (☆ GASKET SET - 2805-996-3792) (Refer to page 50.) (7966819)	ea	1			100	
	31		P	O		6625-953-4888	METER, TIME TOTALIZING: hour (65909-922047) ----	ea	1			12	



NON-SUPPLY ITEMS

- | | | |
|---------------------------------------|------------------------------|----------------------------|
| 2 - WASHER (96906-15795-7) | 6 - HOUSING (8744217) | 11 - BUSHING (8764725) |
| 3 - SCREW (131963) | 7 - CONDENSER (09033-M-1193) | 12 - SCREW (09033-0369-JM) |
| 4 - DISK AND GRAR ASSY (09033-M-1144) | 8 - SHELL (09033-M-1196) | 13 - NUT (7045549) |
| 5 - BLOCK (09033-M-1297) | 9 - SCREW (09033-034-46) | 14 - BODY ASSY (No Number) |
| | 10 - SCREW (09033-033-46) | |

FIGURE 5. IGNITION MAGNETO ASSEMBLY (MODEL AO-53-2 ONLY) - EXPLODED VIEW.

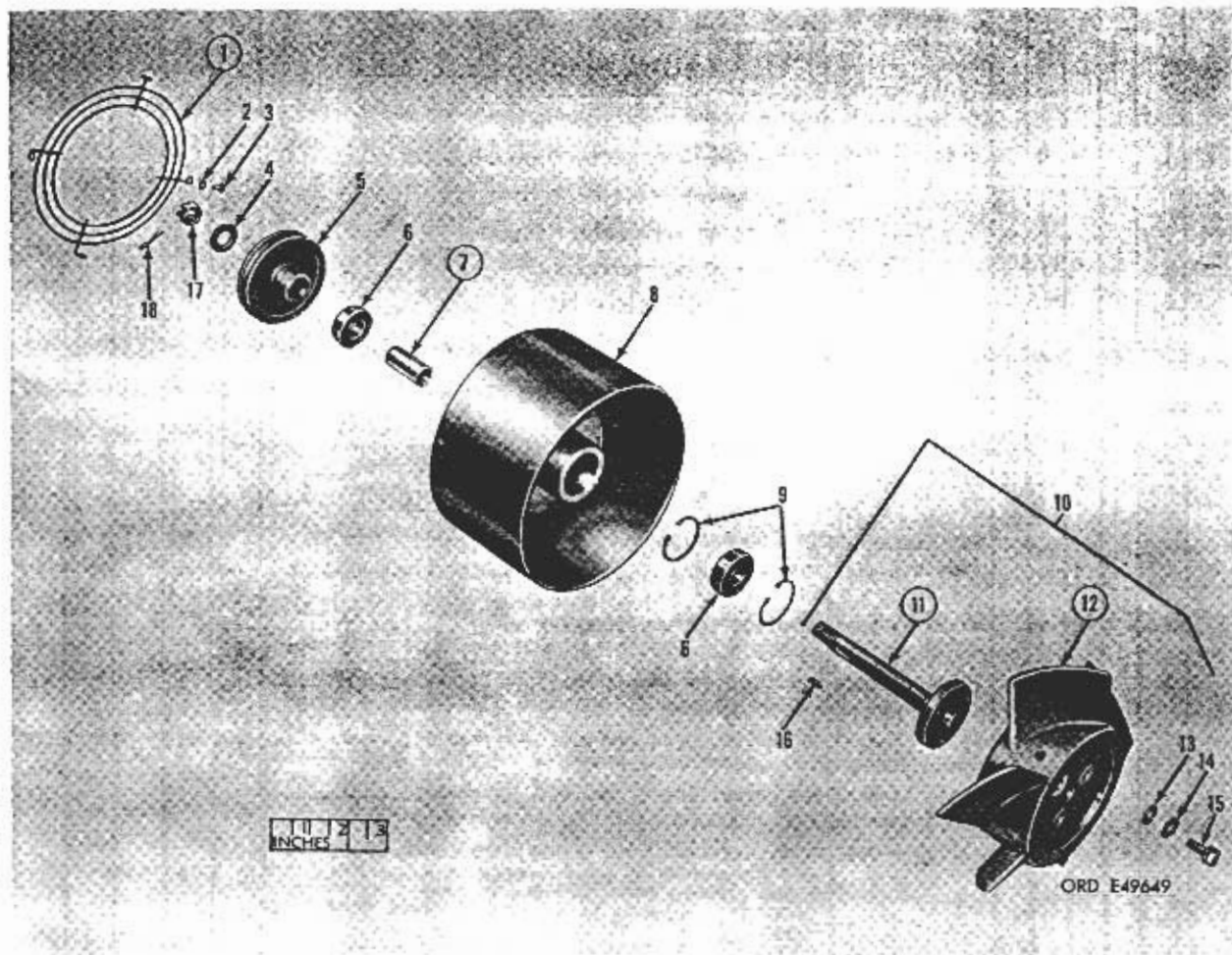


NON SUPPLY ITEMS

- | | | |
|---|--|---|
| 4 - El Bow (MODEL AO-53-1)
(Ser Available) | 11 - CONNECTOR (7045708) | 17 - NIPPLE (MODEL AO-53-1)
(120460) |
| 5 - NUT (121220) | 18 - GROMMET (MODEL AO-53-1)
(65909-924502) | 18 - HOSE (MODEL AO-53-1)
(65909-934000) |
| 6 - ELBOW (121322) | | |

FIGURE 6. ENGINE BREATHER SYSTEM - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALEW PER 100 EQUIP		(8) DESOT MAINT GUIDE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(c) MTRC CODE	(d) SOURC CODE	(e) MAINTEN ANCE LEVEL	(f) RECOV ERABILITY					(a) 3RD ECH 15TH SUPP	(b) 4TH ECH 10TH SUPP		
5	1		P	0		2920-996-7271	<p align="center"><u>Ignition Magneto Assembly (Model A0-43-1 only) (fig. 5)</u></p> <p>PARTS KIT, IGNITION MAGNETO: minor (65909-934715)</p> <p>Composed of:</p> <p>1 POINT KIT: (65909-916427)</p> <p>4 PACKING, PREFORMED: "O" ring (65909-936318)</p> <p>1 GASKET: (8379861)</p> <p>1 RING, SEALING: (65909-916405)</p> <p>1 CONDENSER: (7985068)</p> <p align="center"><u>Engine Breather System (fig. 6)</u></p>	ea	1				
	1.1												
	1.2												
	1.3												
	1.4												
	1.5												
6	1		P	0		2805-953-4847	TUBE ASSEMBLY: rh (Model A0-53-1) (65909-934651) -	ea	1			10	
	2		P	0		4730-954-1244	BUSHING: 1/2 x 1/4 (Model A0-53-1) (444032) -----	ea	1			4	
	3		P	0		4820-593-4889	SERVICE STOP: (Model A0-53-1) (65909-924484) -----	ea	1			4	
	7		P	0		4730-278-4595	CONNECTOR, TUBE COMPRESSION: (140285) -----	ea	1			20	
	8		P	0		5930-322-9529	TEE, RIGHT ANGLE, TWO-WAY: (8675960) -----	ea	1			10	
	9	5	P	0		4710-200-0298	TUBE, STEEL: 1/8 od, 0.028 wall thk (magneto to intake manifold (21.00 lg))	ft	1			10	
	10	5	P	0		4730-278-3822	ELBOW, PIPE TO TUBE: magneto to intake manifold tube (1), magneto to air cleaner hose tube (1) (140304)	ea	2			20	
	12		P	0		3510-012-4925	NUT, PLAIN, HEXAGON: jam, 3/8-24 (96006-35691-622)	ea	1			10	
	13	5	P	0		4710-200-0298	TUBE, STEEL: 1/8 od, 0.028 wall thk (air cleaner hose to magneto inlet)	ft	1			10	
	14		P	0		2805-953-4846	TUBE ASSEMBLY: lh (Model A0-53-1) (65909-934650)	ea	1			10	
	15		P	0		4730-954-1250	CLAMP: (Model A0-53-1) (65909-934246) -----	ea	1			8	
	19		P	0		2805-953-4848	TUBE ASSEMBLY: (Model A0-53-1) (65909-933999) ---	ea	2			20	
	20		P	0		4730-288-9502	TEE: (Model A0-53-1) (143484) -----	ea	1			10	



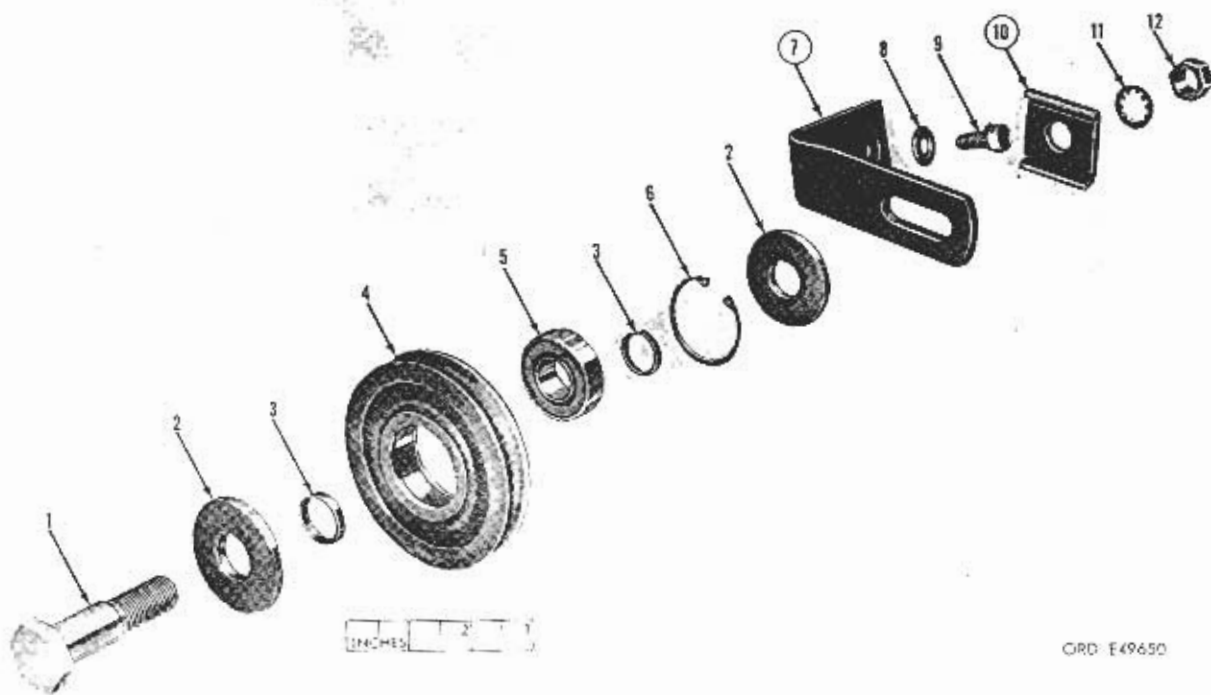
NON-SUPPLY ITEMS

- 1 - GUARD (7966857)
- 2 - SPACER;
MODEL A0-53 (94537-907411)
MODEL A0-53-1 (65909-927208)
- 11 - SHAFT (7966776)
- 17 - IMPELLER (7966564)

FIGURE 2. COOLING BLOWER ASSEMBLY - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEFCT MAINT GUIDE PER 100 EQUIP (5TH ECH)
(a) FIG NO	(b) ITEM NO	(c) MATERIAL CODE	(d) SOURCE	(e) MAINTENANCE LEVEL	(f) RECOVERABILITY				(g) 3RD ECH IDR SUP	(h) 4TH ECH IDR SUP		
<u>Cooling Blower Assembly (fig. 7)</u>												
7	2		P	O		5310-013-8530	WASHER, LOCK: int-teeth, no. 8 screw size (Model A0-53-1 only) (96906-35333-21)	ea	3		30	
	3		P	O		5305-270-7324	SCREW, ASSEMBLED WASHER: cross-recess-pan-hd, no. 8-32NC-2 x 3/8 lg (Model A0-53) (8332077)	ea	4		40	
			P	O		5305-059-7901	SCREW, MACHINE: cross-recess-pan-hd, no. 8-32NC-2 x 3/8 lg (Model A0-53-1) (96906-35208-40)	ea	3		30	
	4		P	O		5310-197-3316	WASHER, FLAT: 1/2 screw size (96906-15795-218) --	ea	1		10	
	5		P	O		2930-679-6485	PULLEY, GROOVED: Model A0-53 (7966563) -----	ea	1		8	
			P	O		2930-996-7258	Model A0-53-1 (65909-927211) -----	ea	1		4	
	6		P	O		3110-105-9221	BEARING, BALL, ANNULAR: Model A0-53 (710252) -----	ea	2		45	
			P	O		1110-953-4845	Model A0-53-1 (65909-924330) -----	ea	2		8	
	8		P	O		2930-536-2796	HOUSING, IMPELLER: Model A0-53 (8687093) -----	ea	1		4	
			P	O		2930-996-7263	Model A0-53-1 (65909-934059) -----	ea	1		4	
	9		P	O		5340-058-3015	RING, RETAINING: 1-3/8 dia (583015) -----	ea	2		5	
	10		P	O		2930-679-6484	IMPELLER AND SHAFT ASSEMBLY: (7045697) -----	ea	1		6	
	13		P	O		5310-194-1540	WASHER, FLAT: 1/4 screw size (96906-15795-210) ---	ea	3		10	
	14		P	O		5310-582-5965	WASHER, LOCK: split, 1/4 bolt size (96906-35337-25)	ea	3		30	
	15		P	O		5305-012-3435	SCREW, CAP, HEXAGON HEAD: 1/4-28UNF-2A x 5/8 lg (96906-35298-5)	ea	3		30	
	16		P	O		5315-010-6749	KEY, WOODRUFF: (106749) -----	ea	1		20	
	17		P	O		5310-012-5250	NUT, SLOTTED, HEXAGON: 1/2-20UNF-2B (96906-35692-825)	ea	1		20	
	18		P	O		5315-255-0614	WTN, COTTER: 3/32 x 1.00 lg (121224)-----	ea	1		20	

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT AIW PER 100 EQUIP		(8) DEFECT MAINT GUIDE PER 100 EQUIP (5TH ECH)
(a) FIG NO	(b) ITEM NO	(a) MATER. CODE	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY				(a) 3RD ECH (OR SUP)	(b) 4TH ECH (OR SUP)		
							Cooling Blower Idler Pulley and Associated Parts (Model AO-53) (fig. 8)					
8	1		P	F		5306-678-4784	BOLT, SHOULDER: pulley, idler (7045695) -----	ea	1		8	
	2		P	O		5310-698-4410	WASHER, FLAT: pulley spacer (7966775) -----	ea	2		10	
	3		P	O		5330-607-3535	WASHER, NONMETALLIC: idler pulley (7046970) ----	ea	2		20	
	4		P	O		2930-536-2798	PULLEY, GROOVE: idler (8687096) -----	ea	1		8	
	5		P	O		3110-108-9221	BEARING, BALL, ANNULAR: idler bolt (710252) ---	ea	1		24	
	6		P	O		5340-058-3015	RING, RETAINING: 1-3/8 housing dia (583015) ----	ea	1		5	
	8		P	F		5310-012-0393	WASHER, FLAT: 5/16 screw size (96906-15795-212) --	ea	2		20	
	9		P	F		5305-012-0229	SCREW, CAP, HEXAGON HEAD: 5/16-18UNC-2A x 7/8 lg (96906-35291-33)	ea	2		20	
	11		P	O		5310-584-5272	WASHER, LOCK: split, 1/2 bolt size (120384) ----	ea	1		10	
	12		P	O		5310-655-9371	NUT, PLAIN, HEXAGON: 1/2-20UNF-2B (96906-35690-825)	ea	1		20	



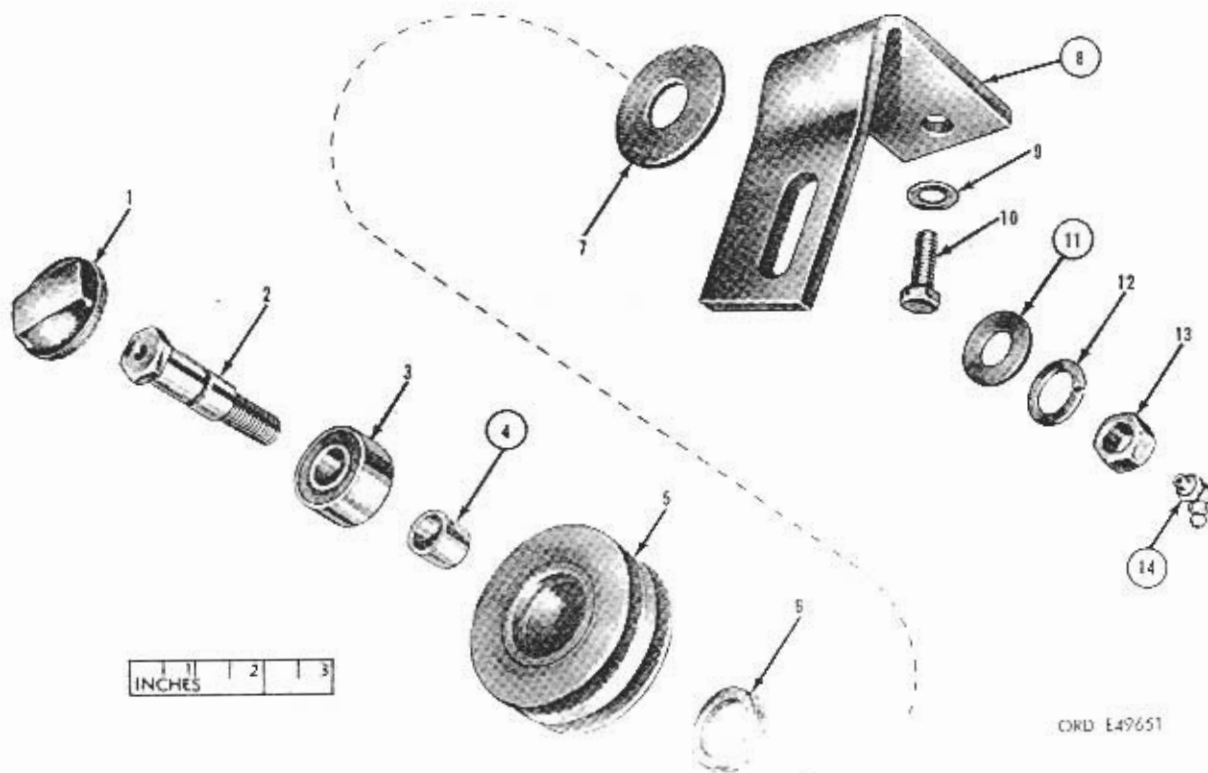
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NON-SUPPLY ITEMS

- 7 - BRACKET (94537-914517)
- 10 - WASHER (94537-914521)

FIGURE 5. COOLING BLOWER IDLER PULLEY AND ASSOCIATED PARTS (MODEL AO-53) - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEFECT MAINT CLAUSE PER 100 EQUIP (15th ECH)
(a) FIG NO	(b) ITEM NO	(c) MATERIAL CODE	(d) SOURCE	(e) MAINTENANCE TYPE	(f) RECOVERABILITY					(a) 3RD ECH (10th SUPP)	(b) 4TH ECH (10th SUPP)	
<u>Cooling Blower Idler Pulley and Associated Parts (Model AO-53-1) (Fig. 9)</u>												
9	1		P	O		2930-996-7260	CAP: idler pulley (65909-922141) -----	ea	1			8
	2		P	F		4730-954-1255	SHAFT: pulley, idler (65909-927207) -----	ea	1			5
	3		P	O		3110-953-4845	BEARING, BALL, ANNULAR: idler shaft (65909-924330)	ea	1			4
	5		P	O		2930-996-7259	PULLEY, GROOVE: idler (65909-927210) -----	ea	1			4
	6		P	O		5330-954-1248	SEAL: (65909-922140) -----	ea	1			20
	7		P	O		5310-698-4410	WASHER, FLAT: (7966775) -----	ea	1			10
	9		P	F		5310-012-0393	WASHER, FLAT: 5/16 screw size (96906-15795-212) --	ea	2			20
	10		P	F		5305-012-0229	SCREW, CAP, HEXAGON HEAD: 5/16-18UNC-2A x 7/8 lg (96906-35291-33)	ea	2			20
	12		P	O		5310-012-0384	WASHER, LOCK: split, 1/2 screw size (96906-35338-29)	ea	1			10
	13		P	O		5310-955-9371	NUT, PLAIN, HEXAGON: 1/2-20UNF-2B (96906-35690-825)	ea	1			20



NON-SUPPLY ITEMS

- 4 - SPACER (65909-927209) 11 - WASHER (120396)
 8 - BRACKET (65909-922135) 14 - FITTING (341350)

FIGURE 9. COOLING BLOWER IDLER PULLEY AND ASSOCIATED PARTS (MODEL AO-53-1) - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT GUIDE PER 100 EQUIP 15th ECH
(a) FIG NO	(b) ITEM NO	(a) MATHL CODE	(b) SOURCE	(c) MAINTNANCE (M)	(d) RECOVERABILITY				(a) 3RD ECH FOR SUP	(b) 4TH ECH (GEN SUP)		
10	1		P	F		2805-697-7700	<u>Oil Pump Assembly and Associated Parts (fig. 10)</u> PUMP ASSEMBLY: oil engine (Refer to fig. 11 for component parts.) (7966546)	ea	1		10	
	2		P	F		5310-012-0367	NUT, PLAIN, HEXAGON: 1/4-28UNF-2B (96906-35690-425)	ea	10		100	
	3		P	F		5310-012-0423	WASHER, LOCK: int-teeth, 1/4 screw size (96906-35333-23)	ea	10		100	
	4		P	F		5310-012-0392	WASHER, FLAT: 1/4 screw size (96906-15795-210)	ea	10		140	
	5		P	O		4730-529-1174	TEE, PIPE TO TUBE: br, inverted flared, 5/16 tube, 1/8 male pipe thd (143483)	ea	1		10	
	6		P	F		5307-698-4414	STUD, FLAIN: fuel pump to oil pump (5/16-24NF-3 x 5/16-18NCS x 1-1/4 lg) (7966528)	ea	2		18	
	7	5	P	O		4730-278-3170	DUSHING: pipe, 1/4 x 1/8 (oil pump to tee) (444024)	ea	1		10	
	8		P	F		2805-606-9462	GASKET: (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (8730513)	ea	1		40	

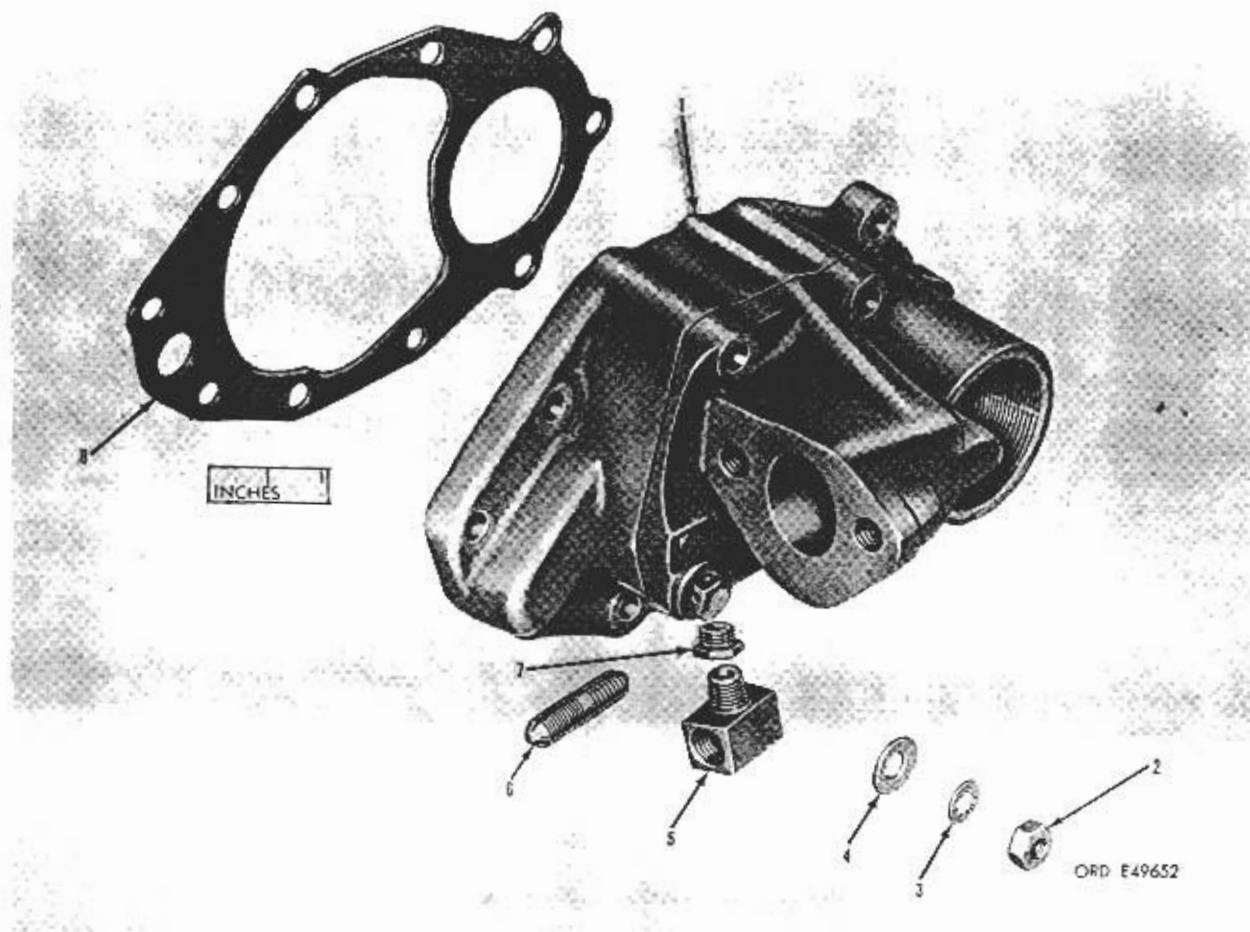
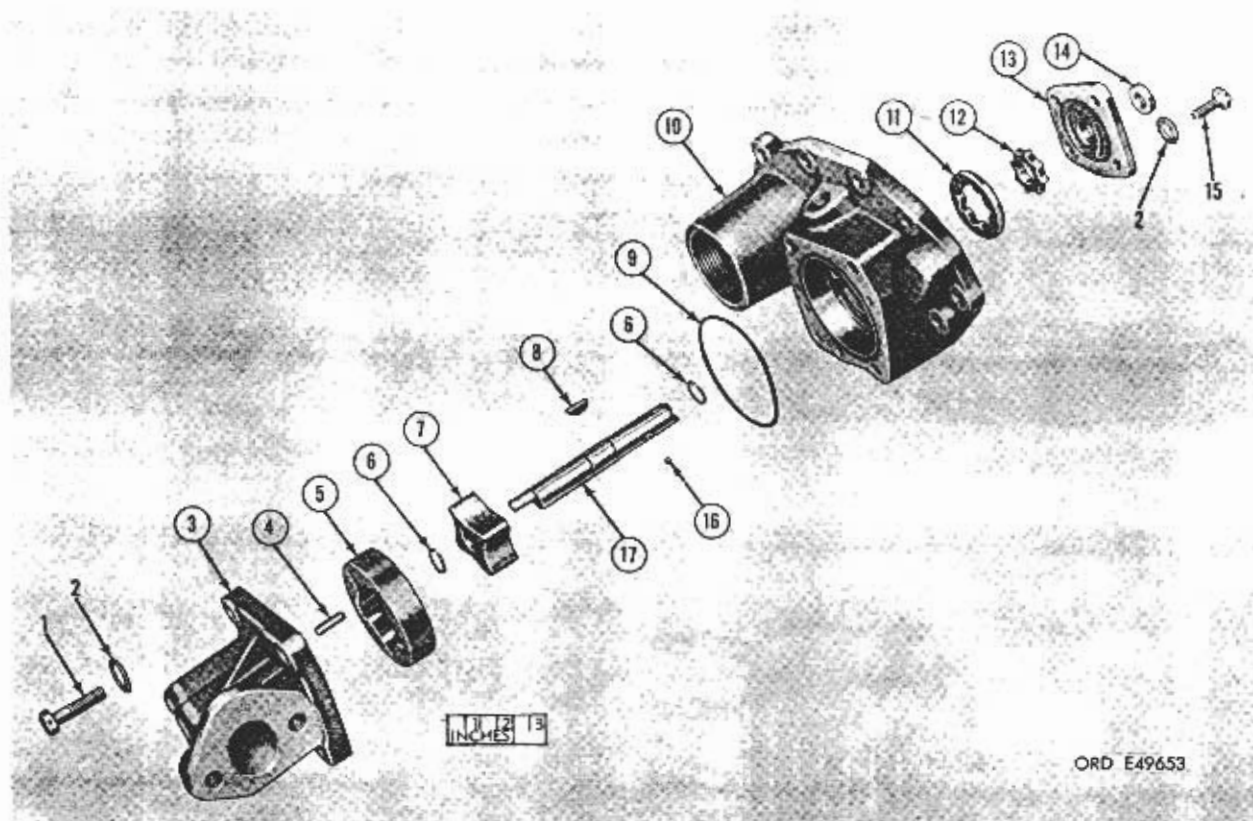


FIGURE 10. OIL PUMP ASSEMBLY AND ASSOCIATED PARTS - EXPLODED VIEW.

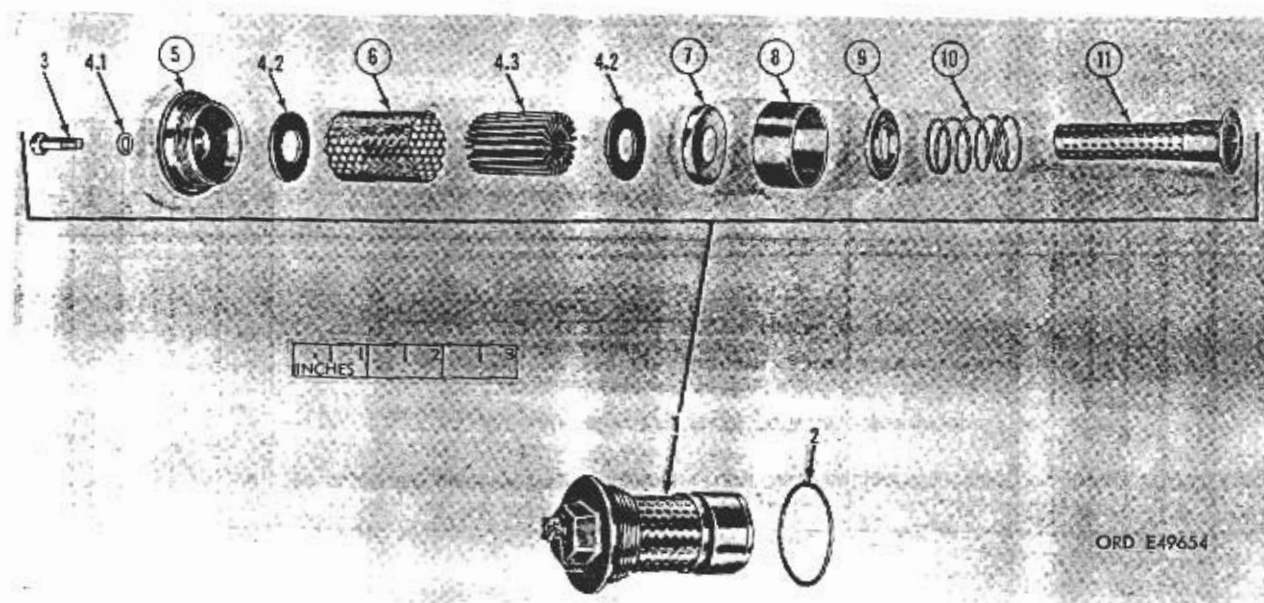
(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT GUIDE PER 100 EQ. SUP. 15TH EC-1
(a) FIG NO	(b) ITEM NO	(a) MATER CODE	(b) SOURCE	(c) MAINTANCE LEVEL	(d) RECOVERABILITY					(a) 3RD ECH (DR SUP)	(b) 4TH ECH (GEN SUP)	
11	1	P	F			5306-587-1437	BOLT, MACHINE: oil and scavenger pump (7055671)	ea	2		48	
	2	P	F			5310-194-1540	WASHER, FLAT: 1/4 bolt size (96906-15795-210) --	ea	6		60	
	15	P	F			5305-543-5710	SCREW, CAP, HEXAGON HEAD: 1/4-20UNC-2A x 5/8 lg (454724)	ea	4		40	



NON-SUPPLY ITEMS

- | | |
|----------------------------|-----------------------------|
| 3 - COVER (94537-914917) | 10 - BODY (81118-ER3896) |
| 4 - PIN (589911) | 11 - ROTOR (81118-ER40211K) |
| 5 - ROTOR (81118-ER4795R) | 12 - ROTOR (81118-ER40210R) |
| 6 - RING (81118-ER9404) | 13 - COVER (81118-ER5863) |
| 7 - ROTOR (81118-ER4794R) | 14 - SLEEVE (81118-ER91980) |
| 8 - KEY (124543) | 16 - BALL (81118-ER90283) |
| 9 - PACKING (81118-ER8372) | 17 - SHAFT (81118-ER6677) |

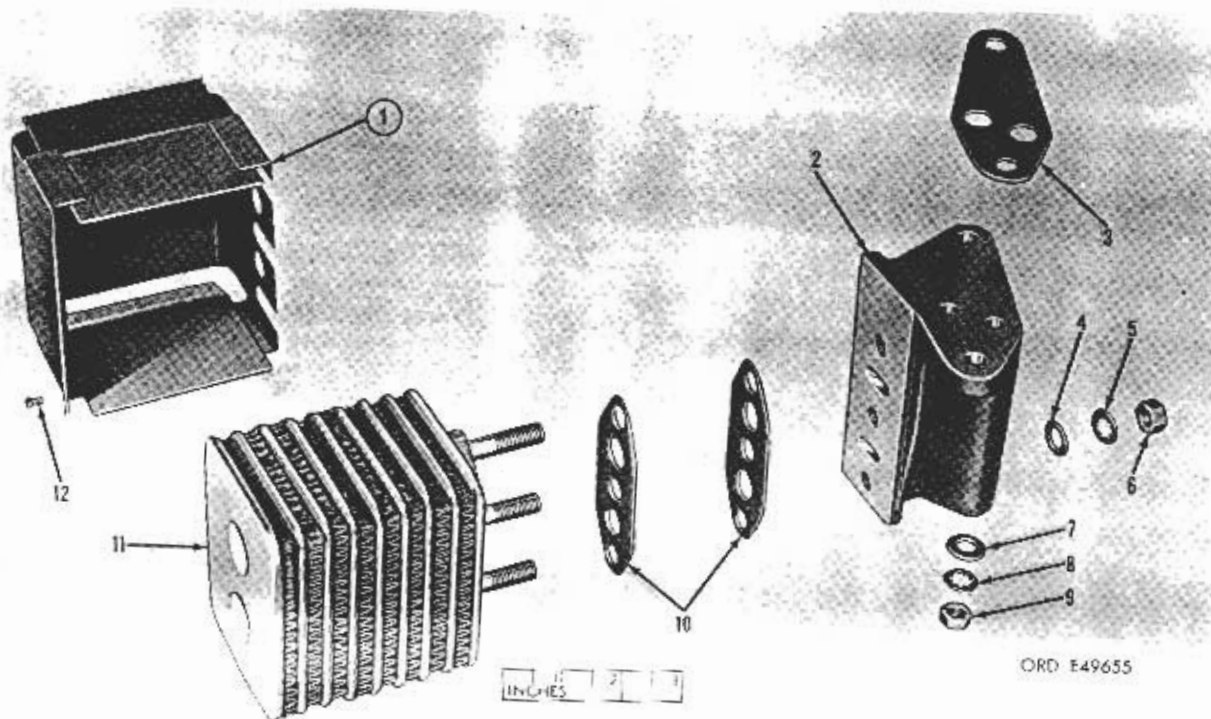
FIGURE 11. OIL PUMP ASSEMBLY - EXPLODED VIEW.



NON-SUPPLY ITEMS

- | | | |
|--------------------------------|---------------------------------|--------------------------------|
| 5 - BODY (00736-Q95580-140) | 7 - RETAINER (00736-Q9S471-211) | 10 - SPRING (00736-Q9T432-110) |
| 6 - HOUSING (00736-Q9S432-105) | 8 - SEAT (00736-Q9S580-213) | 11 - TUBE (00736-Q9S580-232) |
| 9 - VALVE (00736-Q9S580-214) | | |

FIGURE 12. OIL FILTER ASSEMBLY - EXPLODED VIEW.

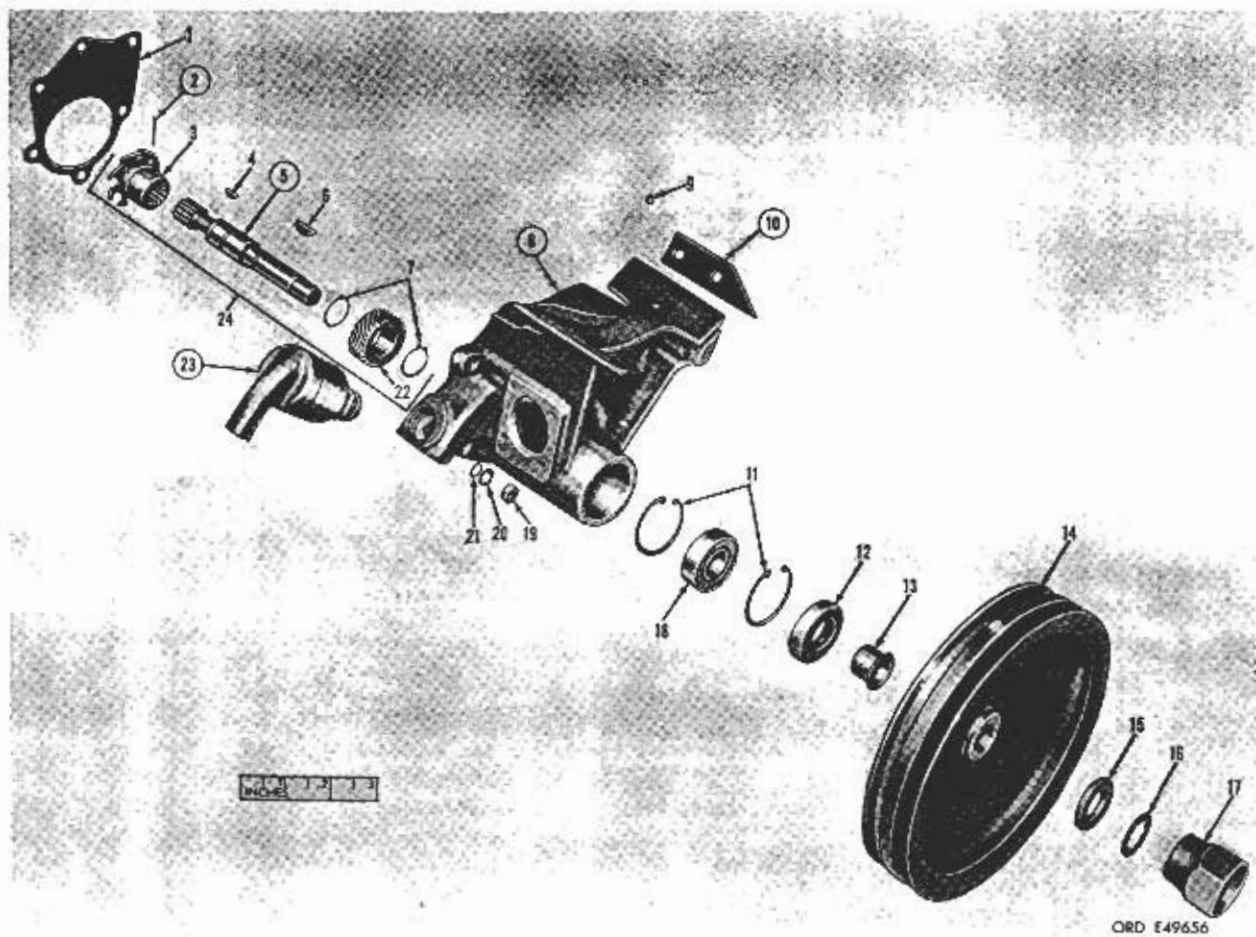


NON-SUPPLY ITEM

- 1 - GUARD 4583:
 MODEL AO-53 (94537-914376)
 MODEL AO-53-1 (65909-934177)

FIGURE 13. OIL COOLER AND ASSOCIATED PARTS - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT GUIDE PER 100 EQUIP (5TH EDITION)
(6a) FIG NO	(6b) ITEM NO	(2a) MATERIAL CODE	(2b) SOURCE	(2c) MAINTACT	(2d) RECOVER					(7a) 3RD ECH (200 SUP)	(7b) 4TH ECH (GEN SUP)		
<u>Oil Filter Assembly (fig. 12)</u>													
12	1		P	O	R	2940-607-3531	FILTER, FLUID PRESSURE: oil (7998647) -----	ea	1			5	
	2		P	O		5330-641-4340	GASKET: oil filter (8713449) ----- Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1			10	
	3		P	O		5305-022-1653	SCREW, CAP, HEXAGON HEAD: dld-f/lkg-wire, 1/4-28UNF-2A x 1.00 lg (221653)	ea	1			16	
	4		P	O		2940-606-9488	ELEMENT KIT, OIL FILTER: (7331579) ----- Composed of: 1 GASKET: (7059234) 2 WASHER, FELT: (7059228) 1 ELEMENT: (7059256)	ea	1			20	
4.1													
4.2													
4.3													
<u>Oil Cooler and Associated Parts (fig. 13)</u>													
13	2		P	O		2930-698-2532	BRACKET: (7966551) -----	ea	1			10	
	3		P	O		2930-698-2853	GASKET: (7966548): Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1			24	
	4		P	O		5310-582-5977	WASHER, FLAT: 13/32 id, 13/16 od, 0.065 thk (96906-15795-214)	ea	3			36	
	5		P	O		5310-013-8542	WASHER, LOCK: int-teeth, 3/8 bolt size (96906-35333-25)	ea	3			36	
	6		P	O		5310-543-5653	NUT, PLAIN, HEXAGON: 3/8-24UNF-2B (96906-35690-625)	ea	3			36	
	7		P	O		5310-616-3023	WASHER, FLAT: 5/16 screw size (96906-15795-212) --	ea	2			20	
	8		P	O		5310-639-8061	WASHER, LOCK: int-teeth, 5/16 bolt size (96906-35333-24)	ea	2			20	
	9		P	O		5310-012-0365	NUT, PLAIN, HEXAGON: 5/16-24UNF-2B (96906-35690-525)	ea	2			20	
	10		P	O		2930-627-2867	GASKET: (7044005): Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	2			24	
	11		P	O	S	2930-698-2334	CORE ASSEMBLY: oil cooler (7966550) -----	ea	1			12	
	12		P	O		5305-059-7914	SCREW, ASSEMBLED WASHER: pan-hd, ext-teeth lock-washer, no. 10-24 x 3/8 lg (96906-35708-53)	ea	2			20	



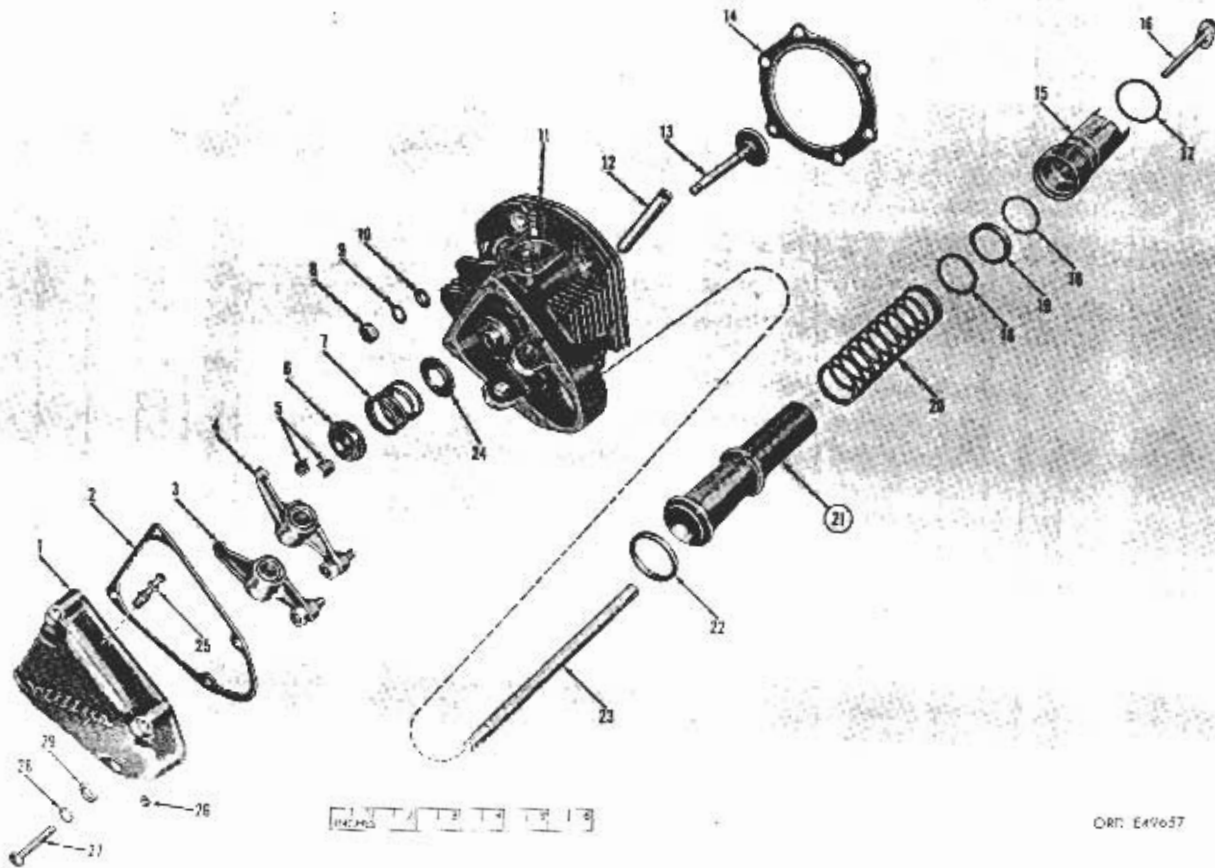
NON-SUPPLY ITEMS

- 2 - PIN (96906-9047-076)
- 5 - SHAFT:
MODEL A0-53 (7966915)
MODEL A0-53-1 (8336404)
- 8 - BRACKET ASSY:
MODEL A0-53 (7966921)
MODEL A0-53-1 (65909-928310)
- 10 - PULLEY (7966925)
- 15 - BUSHING (MODEL A0 53 UNIT) (9441-416,00)

FIGURE 11. ACCESSORY DRIVE SHAFT ASSEMBLY, BRACKET, AND ASSOCIATED PARTS EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEFCT MAINT QUOTE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(c) MTRL CODE	(d) SOUR	(e) MAINT LVLY	(f) RECOV RBLTY					(g) 3RD ECH 100 EQUIP	(h) 4TH ECH 100 EQUIP	
14	1			P	H	2805-697-4632	GASKET: accessory drive bracket to housing: Model AO-53 (★ GASKET SET - 2805-698-2144) (Refer to page 50.) (7966585)	ea	1			100
				P	H	2805-996-3791	Model AO-53-1 (★ GASKET SET - 2805-996-3792) (Refer to page 50.) (65909-927990)	ea	1			25
	3			P	H	2805-588-0013	COUPLING AND DEFLECTOR: accessory drive shaft (7027381)	ea	1			6
	4			P	H	5315-010-6749	KEY, WOODRUFF: (106749) -----	ea	1			10
	6			P	H	5315-011-4813	KEY, WOODRUFF: accessory drive shaft to pulley (114813)	ea	1			20
	7			P	H	5340-251-2911	RING, RETAINING: exter (583382) -----	ea	2			50
	9			P	H	5315-698-4658	PIN, SHOULDER, HEADLESS: accessory drive bracket (7966922)	ea	1			10
	11			P	H	5340-775-1591	RING, RETAINING: inter (583316) -----	ea	2			20
	12			P	H	5330-698-4424	SEAL, PLAIN, ENCASED: accessory drive bracket (7966589)	ea	1			100
	13			P	H	2805-697-5587	BEARING, SLEEVE: accessory drive shaft (7966608)	ea	1			5
	14			P	H	2805-698-0010	PULLEY, GROOVE: accessory drive: Model AO-53 (7966583) -----	ea	1			8
				P	H	2805-996-3790	Model AO-53-1 (65909-933962) -----	ea	1			4
	15			P	H	5310-013-1016	WASHER, FLAT: 5/8 screw size (131016) -----	ea	1			20
	16			P	H	5310-639-8080	WASHER, LOCK: int-teeth, 5/8 bolt size (96906- 35333-29)	ea	1			20
	17			P	F	2805-569-0845	NUT: starter crank (7966587) -----	ea	1			8
	18			P	H	3110-108-9245	BEARING, BALL, ANNULAR: (710198) -----	ea	1			24
	19			P	F	5310-012-0367	NUT, PLAIN, HEXAGON: 1/4-28UNF-2B (96906- 35690-425)	ea	6			120
	20			P	H	5310-527-3289	WASHER, LOCK: int-teeth, 1/4 bolt size (96906- 35333-23)	ea	6			60
	21			P	H	5310-194-1540	WASHER, FLAT: 1/4 bolt size (96906-15795-210) --	ea	6			60
	22			P	H	2805-558-0012	GEAR, ACCESSORY DRIVE: Model AO-53 (7027384) -----	ea	1			4
				P	H		Model AO-53-1 (65909-919003) -----	ea	1			4
	24			P	H	2805-588-0012	SHAFT ASSEMBLY: accessory drive: Model AO-53 (7027384) -----	ea	1			4
				P	H	2990-996-7264	Model AO-53-1 (65909-919361) -----	ea	1			4

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT A/W PER 100 EQUIP		(8) DEPOT MAINT QUOTE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(a) MAINT CODE	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY					(a) 3RD ECH 10TH SUPP	(b) 4TH ECH 10TH SUPP	
15	1	P	O			2805-697-5770	COVER: (7966517) -----	ea	4			* 400
	2	P	O			2805-697-5592	GASKET: (7966518): ----- Model A0-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model A0-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	4			
	3	P	O			2805-711-8350	ROCKER ARM: asy (exhaust) (Refer to fig. 16 for component parts.) (7045757)	ea	4		10	
	4	P	O			2805-711-8349	ROCKER ARM: asy (intake) (Refer to fig. 16 for component parts.) (7045756)	ea	4		10	
	5	P	F			2805-565-5175	LOCK, VALVE SPRING RETAINER: (8687000) -----	ea	16		160	
	6	P	F			2805-630-9930	ROTOR ASSEMBLY: valve (7045390) -----	ea	8		80	



OR: E49657

NON-SUPPLY ITEM

21 - HOUSING ASSY (8687004)

FIGURE 15. CYLINDER HEAD ASSEMBLY AND ASSOCIATED PARTS - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALLOW PER 100 EQUIP		(8) DEPT MAINT COST PER 100 EQUIP
(a) FIG NO	(b) ITEM NO	(c) MATER CODE	(d) SOURCE	(e) MAINT LEVEL	(f) RECOVER					(g) 3RD ECH SUPP	(h) 4TH ECH SUPP	(i) 15% ECH	
15	7		P	F		2805-698-1902	SPRING: valve (7966538) -----	ea	5			50	
	8		P	F		5310-012-0367	NUT, FLAT, HEXAGON: 1/4-28UNF-2B (96906-35690-425)	ea	24			48	
		9		P	F		5310-527-3289	WASHER, LOCK: int-teeth, 1/4 screw size (96906-35333-23)	ea	24			48
		10		P	F		5310-141-1795	WASHER, FLAT: 17/64 id, 1/2 od, 1/16 thk (88044-960-416)	ea	24			48
		11						CYLINDER HEAD, ENGINE: w/GUIDES and SEATS (Refer to fig. 17 for component parts.): Model AO-53 (7045665) -----	ea	4			10
				P	F	R	2805-654-7268	Model AO-53-1 (65909-934311) -----	ea	4			10
				P	F		2805-996-3789	SHAFT: (7966511) -----	ea	4			16
		12		P	O		2805-697-7699	VALVE, POPPET, ENGINE: intake (4), exhaust (4) (7966539)	ea	8			300
		13		P	F		2805-698-0014	GASKET: cylinder head: Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) (7046976)	ea	4			48
		14		P	F		2805-607-3528	Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.) (7953459)	ea	4			48
				P	F		2805-627-2865	GUIDE, VALVE TAPPET, ENGINE: (7045037) -----	ea	4			40
		16		P	F		2805-697-8129	TAPPET: valve (7966514) -----	ea	8			40
		17		P	F		5330-698-4498	GASKET, NONMETALLIC: valve tappet guide (7966519)	ea	4			200
		18		P	F		5310-698-4500	WASHER, FLAT: push rod housing (7966515) -----	ea	4			40
		19		P	F		5330-250-0226	PACKING, PREFORMED: (96906-29513-212) -----	ea	4			40
		20		C	F		2805-627-2866	SPRING, HELICAL, COMPRESSION: push rod housing (7089671)	ea	4			40
		22		P	F		5330-250-0232	PACKING, PREFORMED: (96906-29513-214) -----	ea	4			40
		23		P	F		2805-697-6941	PUSH ROD: valve rocker arm (7966509) -----	ea	8			40
		24		P	F		2805-654-7267	SEAT, HELICAL SPRING: valve (7045664) -----	ea	8			80
		25		P	O		4730-287-1784	ADAPTER, STRAIGHT: (8380927) -----	ea	4			20
		26	5	P	O		4730-378-0149	ELBOW, PIPE TO TUBE: rocker arm cover drain (137422)	ea	4			48
		27		P	O		5305-059-7920	SCREW, MACHINE: pan-hd, no. 10-24 x 1.00 lg (96906-35208-59)	ea	16			160
		28		P	O		5310-012-1801	WASHER, LOCK: int-teeth, no. 10 screw size (96906-35333-22)	ea	16			64
		29		P	O		5310-655-9587	WASHER, FLAT: no. 10 screw size (96906-15795-208)	ea	16			64
								NON-ILLUSTRATED ITEMS					
				P	O		5340-282-7539	CLIP: closed, S, cd- or zn-pltd, no. 5, 5/16 bolt size (rocker arm cover line to scavenger pump) (192107)	ea	1			10
				P	O		4730-737-2701	TEE: hose (valve rocker cover vent tube) (7372701)	ea	3			15
				P	O		4730-542-4402	TEE, TUBE: inverted flared type, stght, br, 5/16 tube, 1/2-20 thd (rocker arm cover tube to scavenger pump tube) (173182)	ea	2			20
				P	O		2805-587-1420	TUBE ASSEMBLY, METAL: rocker cover no. 1 and 2 to tee (8336303)	ea	2			5
			P	O		2805-587-1423	TUBE ASSEMBLY, METAL: rocker cover no. 1 and 3 to scavenger pump (7336299)	ea	2			5	
			P	O		2805-629-2806	TUBE ASSEMBLY, METAL: rocker cover no. 2 and 4 to scavenger pump (7044006)	ea	2			5	
			P	O		2805-587-1422	TUBE ASSEMBLY, METAL: rocker cover no. 3 and 4 to tee (8336305)	ea	2			5	
							TUBE, RUBBER: valve rocker cover vent (7044104) Fabricate from:		1				
			P	O		4720-235-1781	TUBE, RUBBER: 1.62 lg (80244-33-T-234) -----	ft	:			10	
							TUBE, RUBBER: valve rocker cover vent (7044106) Fabricate from:		1				
			P	O		4720-235-1781	TUBE, RUBBER: 6.00 lg (80244-33-T-234) -----	ft	:			10	
							TUBE, RUBBER: valve rocker cover vent (7044107) Fabricate from:		1				
			P	O		4720-235-1781	TUBE, RUBBER: 26.00 lg (80244-33-T-234) -----	ft	:			10	
							TUBE, RUBBER: valve rocker cover vent (7044105) Fabricate from:		1				
			P	O		4720-235-1781	TUBE, RUBBER: 3.50 lg (80244-33-T-234) -----	ft	:			10	

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALW PER 100 EQUIP		(8) DEFECT MAINT CODE PER 100 EQUIP (3TH ECH)
(a) FIG NO	(b) ITEM NO	(c) MAINT CODE	(d) SOURCE	(e) MAINT LIFE	(f) RECOVERABILITY	(a) 3RD ECH (3TH ECH)					(b) 4TH ECH (4TH ECH)		
18	1	P	H			3020-697-5589	CHAIN, ROLLER: camshaft to magneto (7966602) ---	ea	1			20	
	2	P	H			3020-569-0819	CHAIN, ROLLER: timing (crankshaft to camshaft) (7966611)	ea	1			20	
	3	P	H			2805-697-5181	GASKET: accessory drive housing to block (7966586): Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1			100	
	4	P	H			5310-016-3023	WASHER, FLAT: 5/16 screw size (120393) -----	ea	1			20	
	5	P	H			5310-639-8061	WASHER, LOCK: int-teeth, 5/16 bolt size (96906-35333-24)	ea	1			10	
	6	P	H			5310-012-0368	NUT, PLAIN, HEXAGON: 5/16-24UNF (96906-35690-525)	ea	1			20	
	7	P	F			5310-012-0367	NUT, PLAIN, HEXAGON: 1/4-28UNF-2B (96906-35690-425)	ea	5			130	
	8	P	H			5310-527-3289	WASHER, LOCK: int-teeth, 1/4 bolt size (96906-35333-23)	ea	6			130	
	9	P	H			5310-194-1540	WASHER, FLAT: 1/4 bolt size (96906-17595-210) ---	ea	5			130	
	10						HOUSING, W/STUDS: assy (Refer to fig. 20 for component parts.): Model AO-53 (7966858) ----- Model AO-53-1 (65909-927979) -----	ea	1			4	
	11						SCREW, CAP, SOCKET HEAD: 1/4-20NC-3 x 1-1/4 lg (587446)	ea	1			12	
	12						WASHER, FLAT: 17/64 id, 1/2 od, 0.064 thk (88044-960-416)	ea	1			20	
	13						BALL, BEARING: oil cooler bypass (169113) -----	ea	1			20	
	14						SPRING, HELICAL, COMPRESSION: oil cooler bypass (7966547)	ea	1			10	
	15						GASKET: oil cooler bypass (105453): Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1			20	
	16						PLUG: oil cooler bypass (445085) -----	ea	1			20	

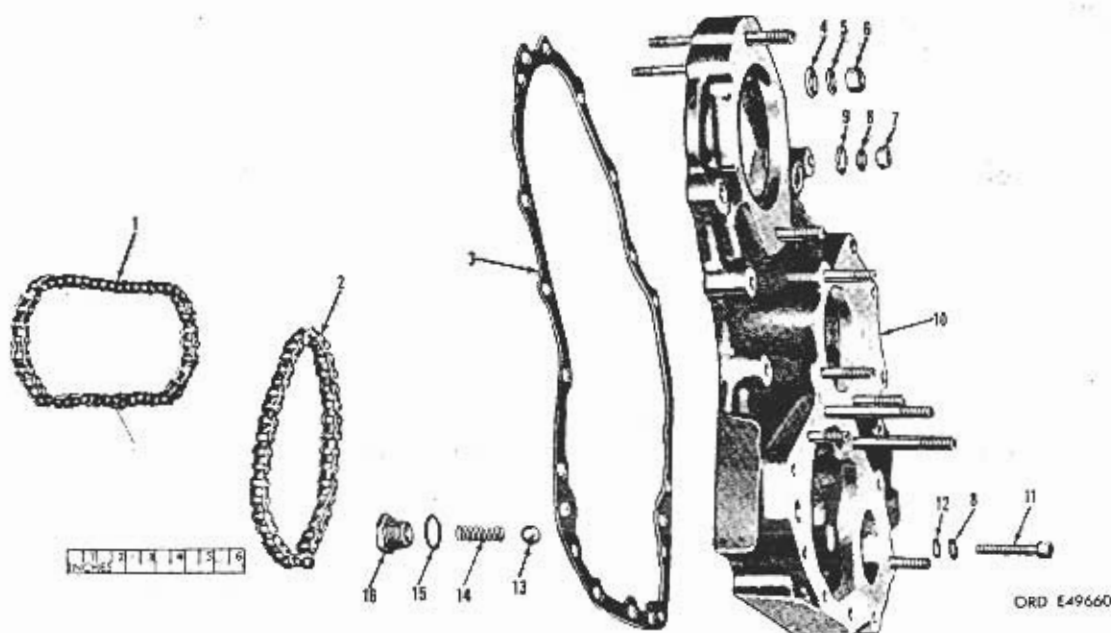
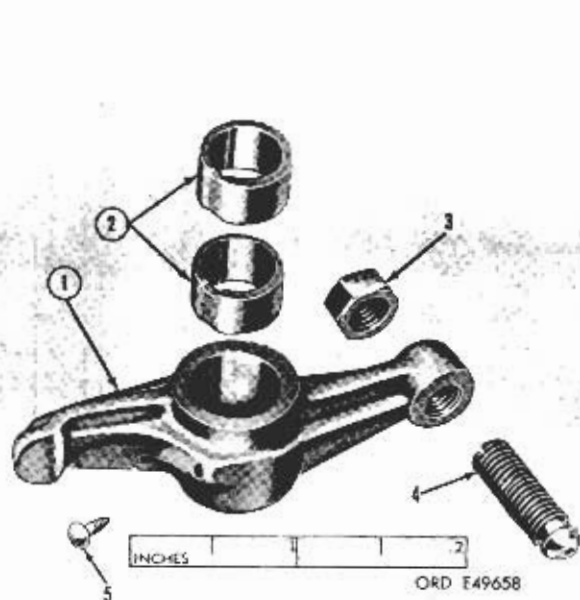


FIGURE 18. ACCESSORY DRIVE HOUSING ASSEMBLY AND ASSOCIATED PARTS - EXPLODED VIEW.

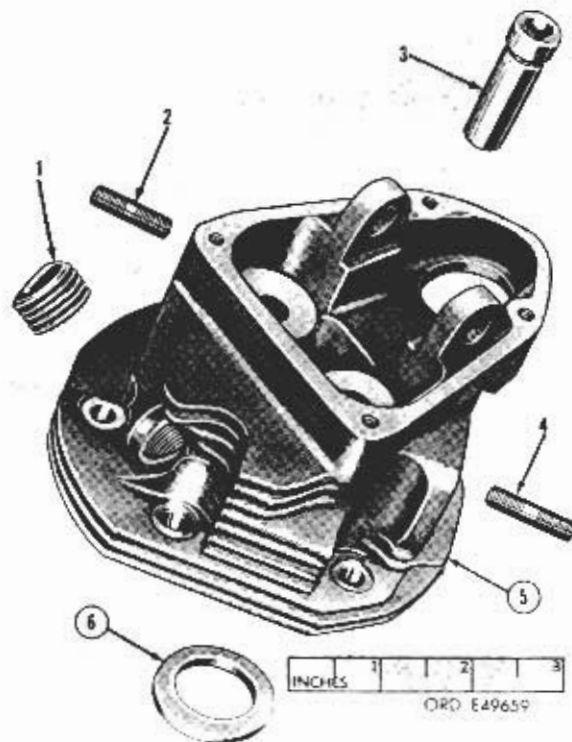
(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPOT MAINT GUIDE PER 100 EQUIP 15 TH ECH
(a) FIG NO	(b) ITEM NO	(c) MATERIEL CODE	(d) SOURCE	(e) MAINTENANCE LEVEL	(f) RECOVERABILITY				(a) 3RD ECH IDR SUP	(b) 4TH ECH IDR SUP		
16	3		F	O		5310-698-4383	<u>Rocker Arm Assembly (fig. 16)</u> NUT, PLAIN, HEXAGON: adjusting screw (7966521) -	ea	8			80
	4		P	O		2805-697-7834	SCREW: adjusting (7966510) -----	ea	8			5
	5		P	H		5305-011-3256	SCREW, DRIVE: metallic, no. 2 x 1/8 lg (rocker oil line plug) (113256)	ea	8			80
17	1		P	H		5340-698-4411	<u>Cylinder Head Assembly (fig. 17)</u> INSERT, SCREW THREAD: spark plug Heli-coil (7966582)	ea	4			20
	2		P	O		5307-561-9129	STUD, PLAIN: intake flange to cylinder head (1/4-20NC x 1/4-28NF-3 x 7/8 lg) (7966601)	ea	8			80
	3		P	H		2805-654-7266	GUIDE, VALVE, ENGINE: (7045663) -----	ea	8			40
	4		P	F		5307-678-4783	STUD, PLAIN: exhaust flange to cylinder head (7045696)	ea	8			74



NON-SUPPLY ITEMS

- 1 - ROCKER ARM;
EXHAUST VALVE (7045755)
- INTAKE VALVE (7045758)
- 2 - BEARING (7966516)

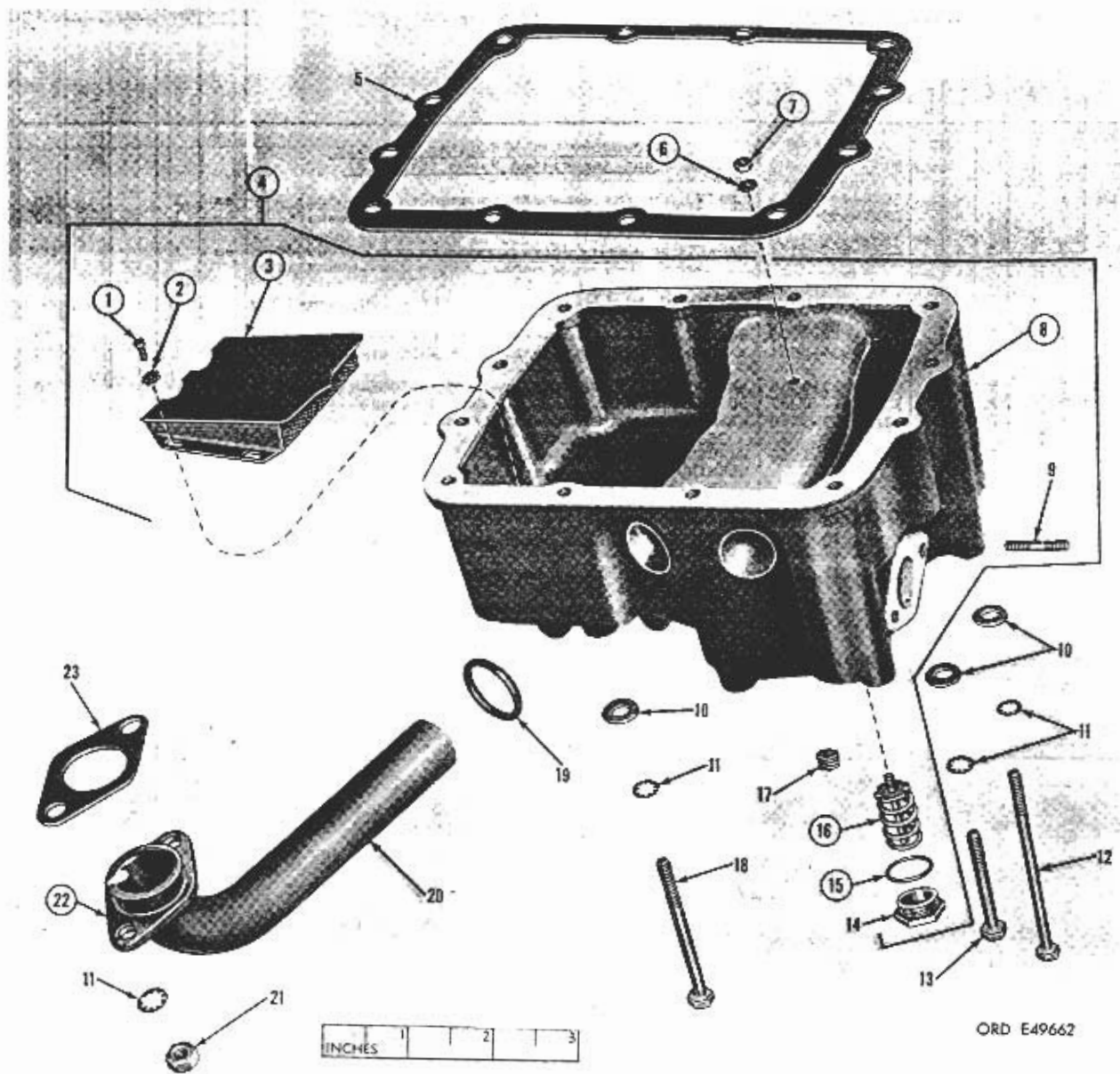
FIGURE 16. ROCKER ARM ASSEMBLY - EXPLODED VIEW.



NON-SUPPLY ITEMS

- 3 - CYLINDER HEAD;
MODEL AO-53 (94537-91412)
- MODEL AO 53-1 (65900 934312)
- 6 - INSERT (7003697)

FIGURE 17. CYLINDER HEAD ASSEMBLY - EXPLODED VIEW.



NON-SUPPLY ITEMS

- 1 - SCREW (MODEL AO-53-1 ONLY) (159572)
- 2 - WASHER (MODEL AO-53-1 ONLY) (121752)
- 3 - COVER AND PAPER ASSEMBLY (MODEL AO-53-1 ONLY) (65909-924517)
- 4 - MANIFOLD ASSEMBLY:
MODEL AO 53 (704500)
MODEL AO-53-1 (65909-923902)
- 6 - NUT (MODEL AO-53-1 ONLY) (170361)
- 7 - WASHER (MODEL AO-53-1 ONLY) (96906-15295 208)

- 8 - MANIFOLD:
MODEL AO-53 (7066845)
MODEL AO-53-1 (65909-923902)
- 12 - BOLT (MODEL AO-53-1 ONLY) (120475)
- 13 - COIL (MODEL AO-53-1 ONLY) (7015702)
- 14 - FLANGE:
MODEL AO-53 (7066842)
MODEL AO-53-1 (65909-927091)

FIGURE 19. INTAKE MANIFOLD AND ASSOCIATED PARTS - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT GUIDE PER 100 EQUIP (QTY EACH)
FIG NO	ITEM NO	MAINT CODE	SOURCE	MAINT LEVEL	RECOVER ABILITY					3RD ECH FOR SUPT	4TH ECH GEN SUPT	
<u>Intake Manifold and Associated Parts (fig. 19)</u>												
19	5		P	F		2805-697-5590	GASKET: (7966562): ----- Model AO-53 (★ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (★ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1			200
	9						STUD, PLAIN: carburetor to intake manifold (1/4- 20UNC-5 x 1/4-28NF-3 x 2-5/16 lg): Model AO-53 (7046973) ----- Model AO-53-1 (187717) -----	ea	2			20
			P	F		5307-607-3536		ea	2			20
			P	F		5307-954-3121		ea	2			20
	10		P	F		5310-044-6188	WASHER, FLAT: 17/64 id, 5/8 od, 0.049 thk (96906-15795-210)	ea	12			120
	11		P	F		5310-012-0423	WASHER, LOCK: int-teeth, 1/4 screw size (96906- 35333-23)	ea	20			120
	12		P	F		5305-543-2730	SCREW, CAP, HEXAGON HEAD: 1/4-20UNC-2A x 4-1/4 lg (96906-35291-23)	ea	5			50
	13		P	F		5305-012-1960	SCREW, CAP, HEXAGON HEAD: 1/4-20UNC-2A x 2-1/4 lg (96906-35291-15)	ea	1			10
	14	5	P	O		4730-277-8018	REDUCER, PIPE: (Model AO-53-1 only) (7045701) --	ea	1			6
	17		P	F		4730-044-4688	PIPE, PLUG: (Model AO-53 only) (444688) -----	ea	6			60
	18		P	F		5305-014-3253	SCREW, CAP, HEXAGON HEAD: 1/4-20UNC-2A x 3-1/4 lg (96906-35291-19)	ea	6			60
	19		P	O		5330-187-3638	PACKING, PREFORMED: "O" ring (501228) -----	ea	4			40
	20		P	O		2805-698-0475	TUBE, METAL, PREFORMED: air intake (7966844) ---	ea	4			8
	21		P	O		5310-012-0367	NUT, PLAIN, HEXAGON: 1/4-28UNF-28 (96906-35690-415)	ea	5			80
	23		P	O		2805-698-0262	GASKET: Model AO-53 (★ GASKET SET - 2805-698-2144) (Refer to page 50.) (7966841)	ea	4			200
			P	O		2805-607-3527	Model AO-53-1 (★ GASKET SET - 2805-996-3792) (Refer to page 50.) (7046975)	ea	4			200

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEMO MAINT GUIDE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(a) MATER. CODE	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY				(a) 3RD ECH IDIR SUP.	(b) 4TH ECH IGRN 5.0 PI		
<u>Accessory Drive Housing Studs (fig. 19)</u>												
20	1		P	F		5307-569-0935	STUD, PLAIN: accessory drive housing to block (1/4-20NC x 1/4-28NF-3 x 1-3/4 lg) (7966530)	ea	2			36
	2		P	H		5307-698-4558	STUD, PLAIN: accessory drive housing to oil cooler adapter (5/16-18NC x 1-3/8 lg) (7966848)	ea	2			24
	3		P	H		5307-698-4550	STUD, PLAIN: accessory drive housing to oil pump housing (1/4-20NC x 1/4-28NF x 1-1/4 lg) (7966847)	ea	2			24
	4		P	H		5307-561-9131	STUD, PLAIN: accessory drive housing to oil pump (1/4-20NC x 1/4-28NF x 2-5/8 lg) (8686938)	ea	2			24
	5		P	H		5307-698-4993	STUD, PLAIN: accessory drive housing to accessory drive bracket (7966846)	ea	2			36
	6		P	F		5307-698-4993	STUD, PLAIN: accessory drive housing: Model A0-53 (7966846) -----	ea	1			18
			P	F		5307-014-7716	Model A0-53-1 (147716) -----	ea	1			10
	7		P	H		5307-698-4881	STUD, PLAIN: accessory drive housing to oil cooler adapter (5/16-18NC-5 x 5/16-24NF-1 x 1-1/2 lg) (7966835)	ea	2			24

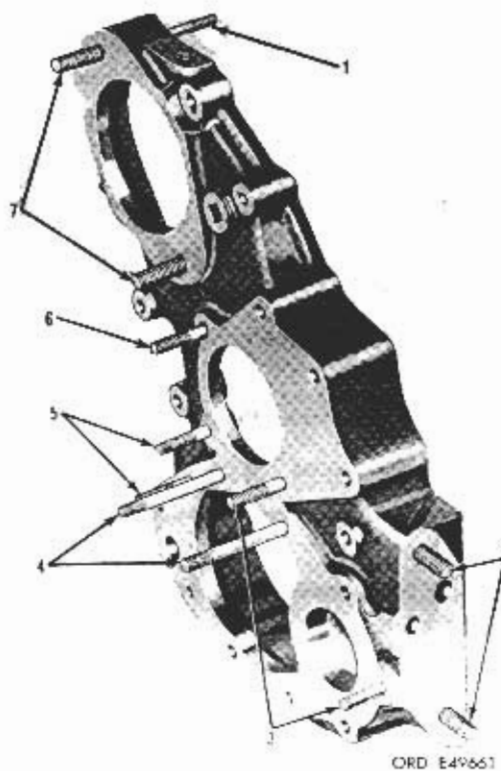
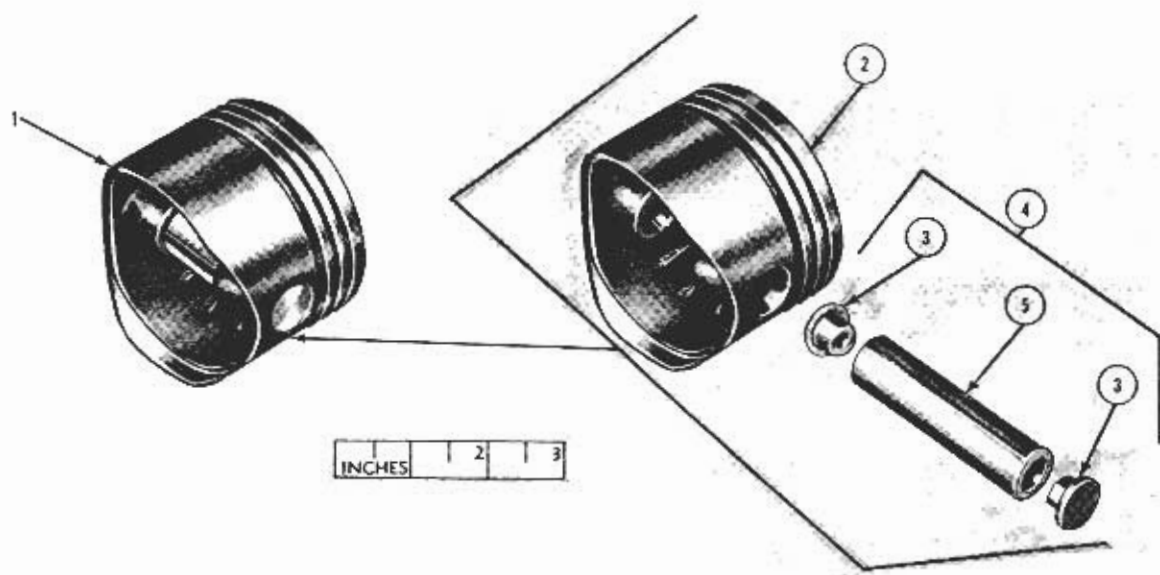


FIGURE 20. ACCESSORY DRIVE HOUSING STUDS.

11) ILLUSTRATION		12) SOURCE, MAINT AND RECOVERABILITY CODE					13) FEDERAL STOCK NO	14) DESCRIPTION	15) UNIT OF ISSUE	16) QTY INC IN UNIT	17) 15 DAY MAINT ALW PER 100 EQUIP		18) DEPOT MAINT GUIDE PER 100 EQUIP 15TH ECH.
FIG NO	FLM NO	MATERIAL CODE	SOURCE	MAINTENANCE LIFE	RECOVERABILITY	101 3RD ECH (DIR SUP)					101 4TH ECH (GEN SUP)		
21	1		P	H		2805-996-3784	Standard (65909-915563) -----	na	4			20	
			P	H		2805-698-1927	0.010 oversize (7966914) -----	na	4			20	
			P	H		2805-698-2207	0.020 oversize (7966915) -----	na	4			20	



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NON-SUPPLY ITEMS

- 2 - PISTON (8330403)
- 3 - BUTTON (8330358)
- 4 - PIN ASSY (8330399)
- 5 - PIN (8330397)

FIGURE 21. PISTON ASSEMBLY - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPOT MAINT QUOTE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(a) MATER CODE	(b) SOURCE	(c) MAINTEN LEVE	(d) RECOVER ABILITY				(a) 3RD ECH IDR SUP	(b) 4TH ECH IGEN SUP		
22	1						<u>Piston Ring Set (fig. 22)</u>					
	1.1		P	H		2805-658-6142	RING SET, PISTON: Model A0-53 Standard to 0.003 oversize (7966560) ----- Composed of: 8 RAIL, OIL CONTROL: (94537-917312) 4 SPACER, OIL CONTROL: (94537-917311) 8 RING, COMPRESSION: (94537-907303)	ea	±		20	
	1.2						0.010 oversize (7966907) ----- Composed of: 8 RAIL, OIL CONTROL: (94537-917312) 4 SPACER, OIL CONTROL: (94537-917311) 8 RING, COMPRESSION: (94537-915566)	ea	±		20	
	1.3		P	H		2805-698-0250	0.020 oversize (7966903) ----- Composed of: 8 RAIL, OIL CONTROL: (94537-917375) 4 SPACER, OIL CONTROL: (94537-917311) 8 RING, COMPRESSION: (94537-915567)	ea	±		20	
	1.1						Model A0-53-1 Standard to 0.001 oversize (65909-935067) Composed of: 8 RAIL, OIL CONTROL: (65909-923945) 4 SPACER, OIL CONTROL: (8386371) 8 RING, COMPRESSION: (8386368)	ea	±		40	
	1.2						0.010 oversize (65909-935068) ----- Composed of: 8 RAIL, OIL CONTROL: (65909-923945) 4 SPACER, OIL CONTROL: (8386371) 8 RING, COMPRESSION: (8386369)	ea	±		20	
1.3		P	H		2805-996-3787	0.020 oversize (65909-935069) ----- Composed of: 8 RAIL, OIL CONTROL: (65909-934808) 4 SPACER, OIL CONTROL: (8386371) 8 RING, COMPRESSION: (8386370)	ea	±		10		

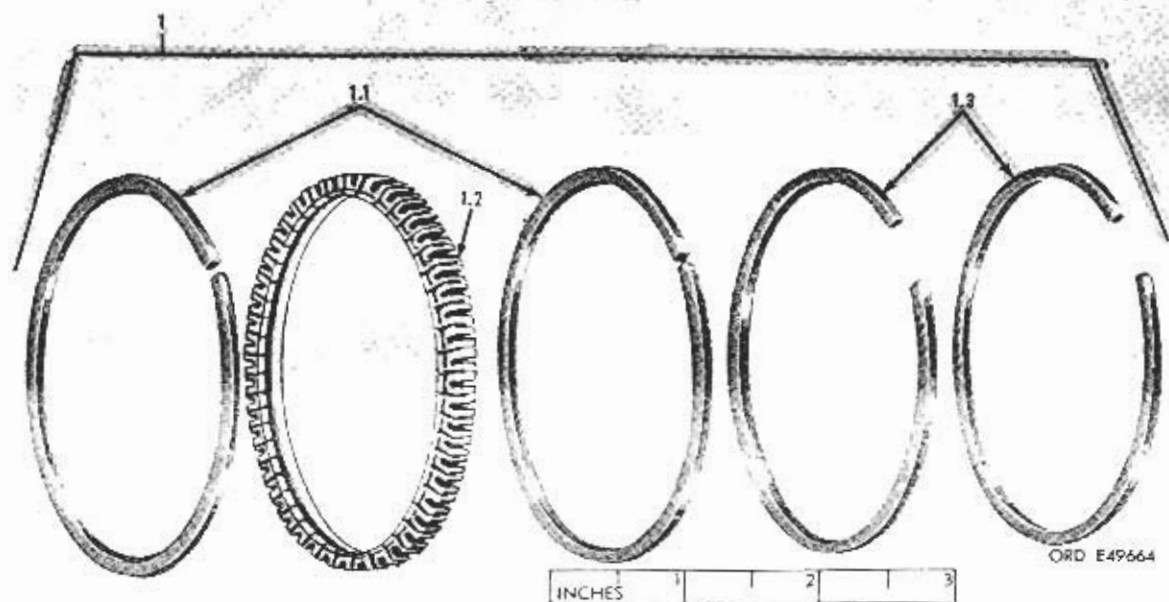
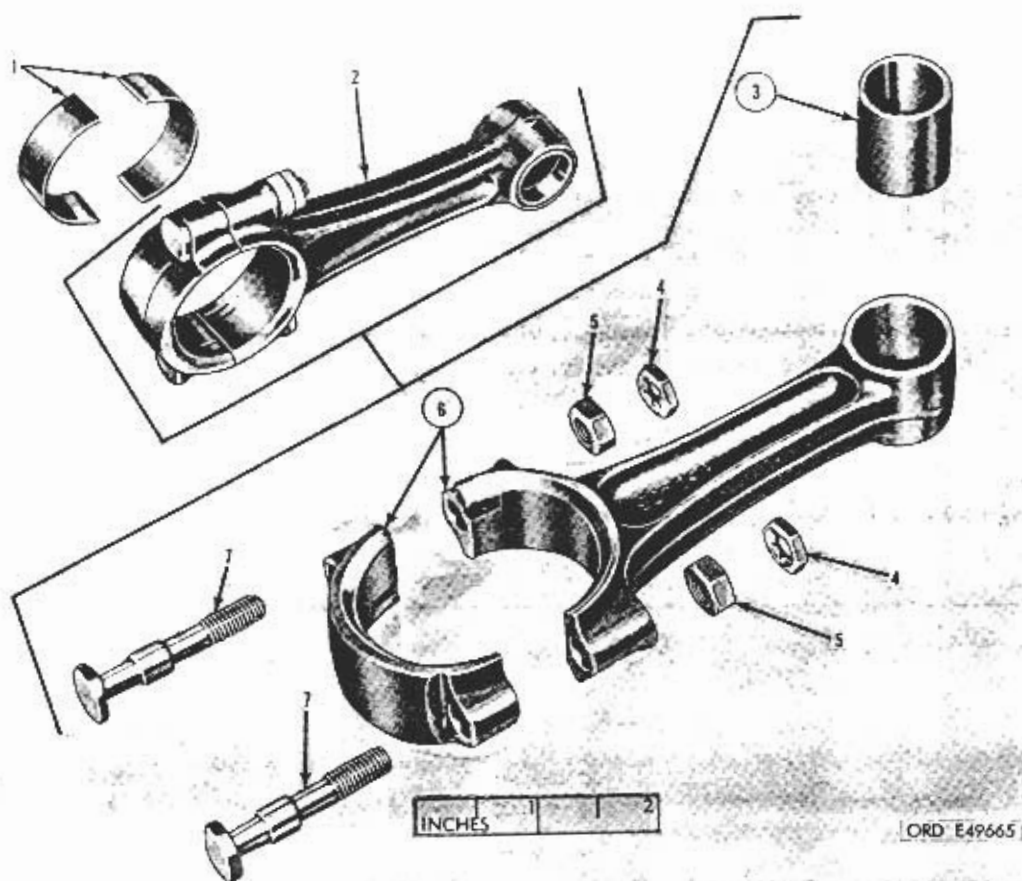


FIGURE 22. PISTON RING SET - LAYED-OUT VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) SPECI MAINT GUIDE PER 100 EQUIP 15th ECH
FIG NO	ITEM NO	MAT'L CODE	SOURT	MAINTAIN LVL	RECOVERLTY					3RD ECH 10th SUP	4TH ECH 10th SUP		
23	1		P	II		2805-698-2153	BEARING, SET: connecting rod (5707419) ----- Composed of: 8 BEARING: (8336410)	ea	1			10	
	2		P	II		2805-697-8106	CONNECTING ROD: w/BEARING, assy (7966655) -----	ea	4			10	
	4		P	II		5310-010-7821	NUT, STAMPED: hex, 1/4-28NF (107821) -----	ea	8			32	
	5		P	II		5310-098-3949	NUT, PLAIN, HEXAGON: 1/4-28NF-3 (7966501) -----	ea	8			48	
	7		P	II		5306-697-2810	BOLT: 1/2-28NF-3 x 3.43 lg (7966500) -----	ea	8			30	



NOS-SUPPLY ITEMS

- 3 - BEARING (7023701)
- 6 - CONNECTING ROD (5336407)

FIGURE 21. CONNECTING ROD ASSEMBLY AND ASSOCIATED PARTS - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT GUIDE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(a) MATER CODE	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY					(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)	
<u>Camshaft Assembly and Associated Parts (fig. 24)</u>												
24	1		P	H		2805-697-4433	CAMSHAFT ASSEMBLY: (7966504) -----	ea	1			5
	2		P	H		2805-697-5477	PLATE, THRUST: camshaft (7966506) -----	ea	1			5
	3		P	H		2805-697-5729	SPACER, SLEEVE: thrust plate to sprocket (7966644)	ea	1			4
	4		P	H		5310-697-4788	WASHER, KEY: thrust plate to sprocket (7966645)	ea	1			8
	5		P	H		5310-012-4944	NUT, PLAIN, HEXAGON: 5/8-18UNF (96906-35691-1022)	ea	1			20
	6		P	H		2805-569-0886	SPROCKET: camshaft (7966607) -----	ea	1			4
	7		P	H		5305-012-0706	SCREW, CAP, HEXAGON HEAD: 1/4-20UNC-2A x 1/2 lg (96906-35291-3)	ea	2			10
	8		P	H		5310-527-3289	WASHER, LOCK: int-teeth, 1/4 screw size (96906- 35333-23)	ea	2			10
	9		P	H		5315-698-4364	PTN, STRAIGHT, HEADLESS: sprocket to camshaft (7966505)	ea	1			10
<u>Crankshaft w/Flywheel Assembly and Associated Parts (fig. 25)</u>												
25	1		P	H		2805-678-4231	CRANKSHAFT, ENGINE: w/FLYWHEEL, assy (balanced) (7045721)	ea	1			5
	2		P	H		5315-010-3646	KEY, WOODRUFF: camshaft sprocket (103646) -----	ea	1			20
	3		P	H		2805-698-0006	WASHER, THRUST: outer (7966558) -----	ea	1			5
	4		P	H		2805-698-1909	WASHER, THRUST: inner (7966557) -----	ea	1			5
	5		P	H		2805-569-0927	SPROCKET: magneto, driven (7966606) -----	ea	1			4
	6		P	H		2805-698-0013	SPROCKET: magneto, drive (7966604) -----	ea	1			4
	8		P	H		2805-569-0892	SPROCKET: drive (crankshaft to camshaft) (7966603)	ea	1			4
	9		P	H		2590-697-4427	WASHER, KEY: crankshaft (7966833) -----	ea	1			8
	10		P	H		5310-698-4583	NUT, SLEEVE: special, 7/8-14 (crankshaft) (7966834)	ea	1			8
	13		P	F		2990-678-4654	RING, RATCHET, STARTING PAWL: (7045716) -----	ea	1			10

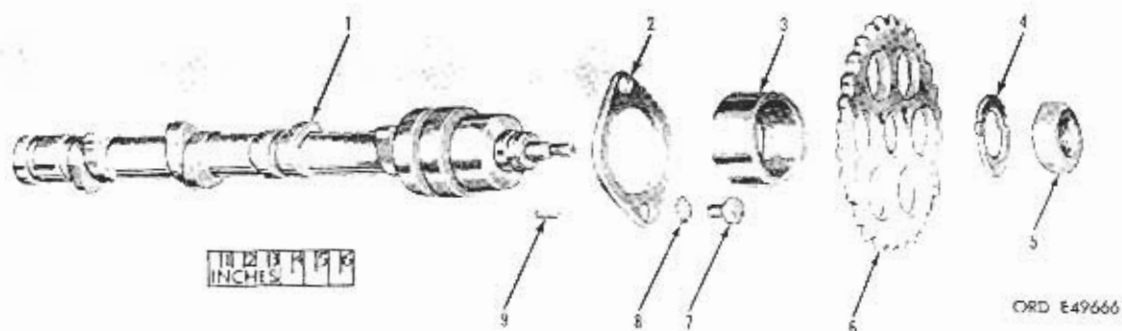
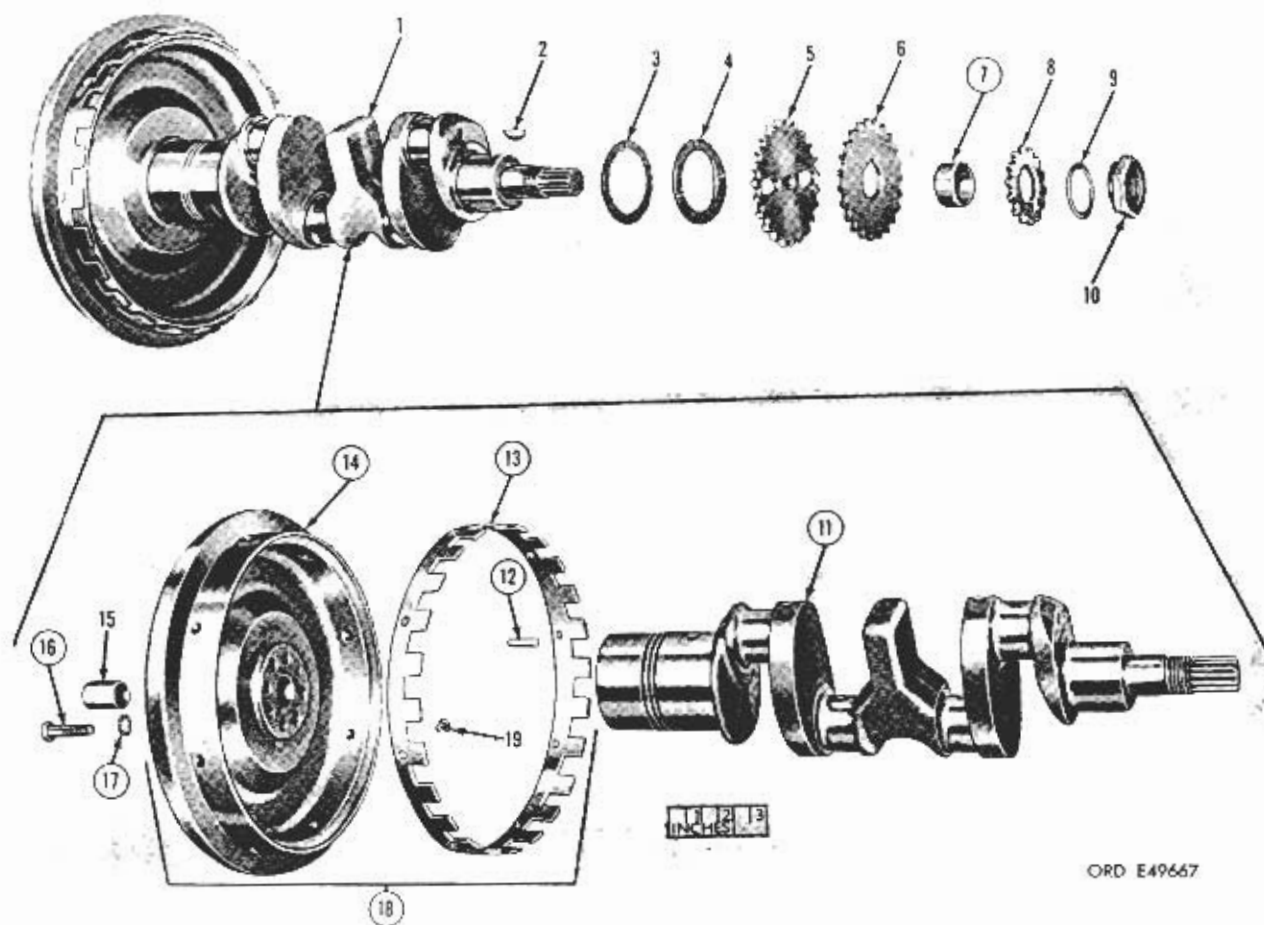


FIGURE 24. CAMSHAFT ASSEMBLY AND ASSOCIATED PARTS--EMPLOYED V.I.P.

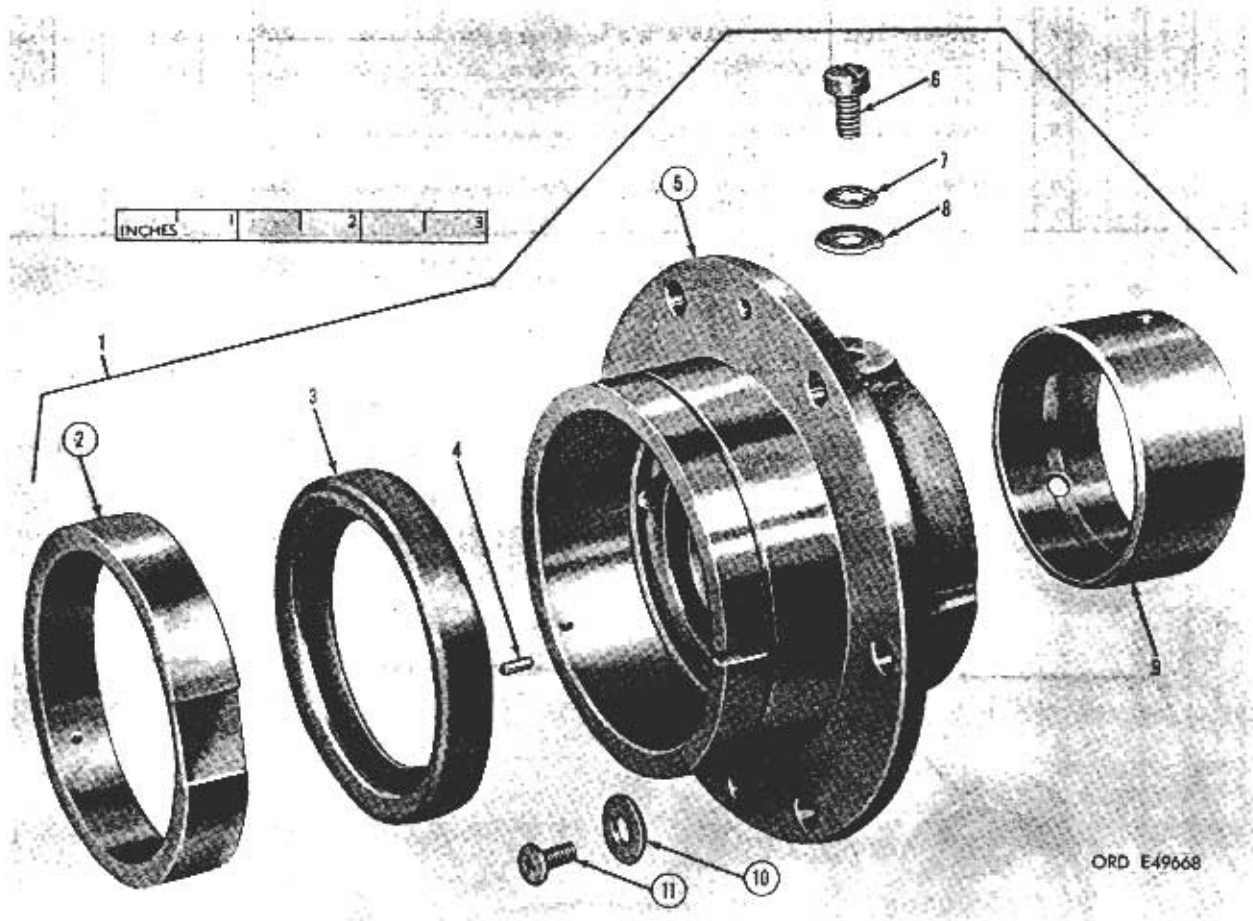
11) ILLUSTR		12) SOURCE, MAINT AND RECOVERABILITY CODE					13) FEDERAL STOCK NO	14) DESCRIPTION	15) UNIT OF ISSUE	16) QTY INC IN UNIT	17) 15-DAY MAINT ALW PER 100 TOUQP		18) DEPT MAINT GUIDE PER 100 TOUQP (13TH ECH)
FIG NO	ITEM NO	AFTRC CODE	VOIC	NUMERICAL LINE	PLANNABILITY	3RD ECH 12R SUP					4TH ECH 10R SUP		
25	15		P	F		7520-697-4010	BEARING, SLEEVE: pilot (7966620) -----	ea	1			40	
	19		P	F		5320-010-4151	RIVET: 3/16 x 1/2 lg (104151) -----	ea	8			80	
NON-ILLUSTRATED ITEMS													
			P	H		2805-651-4065	BEARING, SLEEVE: engine magneto drive sprocket (7341333)	ea	1			20	
			P	O		2805-628-9042	SPRING, HELICAL, TORSION: magneto sprocket (7059067)	ea	1			12	



NON-SUPPLY ITEMS

- | | | |
|---------------------------|-------------------------|------------------------------|
| 7 - SPACER (5336401) | 12 - PIN (5336396) | 17 - WASHER (96906-35338-26) |
| 11 - CRANKSHAFT (7966663) | 14 - FLYWHEEL (7045719) | 18 - FLYWHEEL ASBY (7045220) |
| 16 - SCREW (7966535) | | |

FIGURE 25. CRANKSHAFT W/FLYWHEEL ASSEMBLY AND ASSOCIATED PARTS - EXPLODED VIEW.



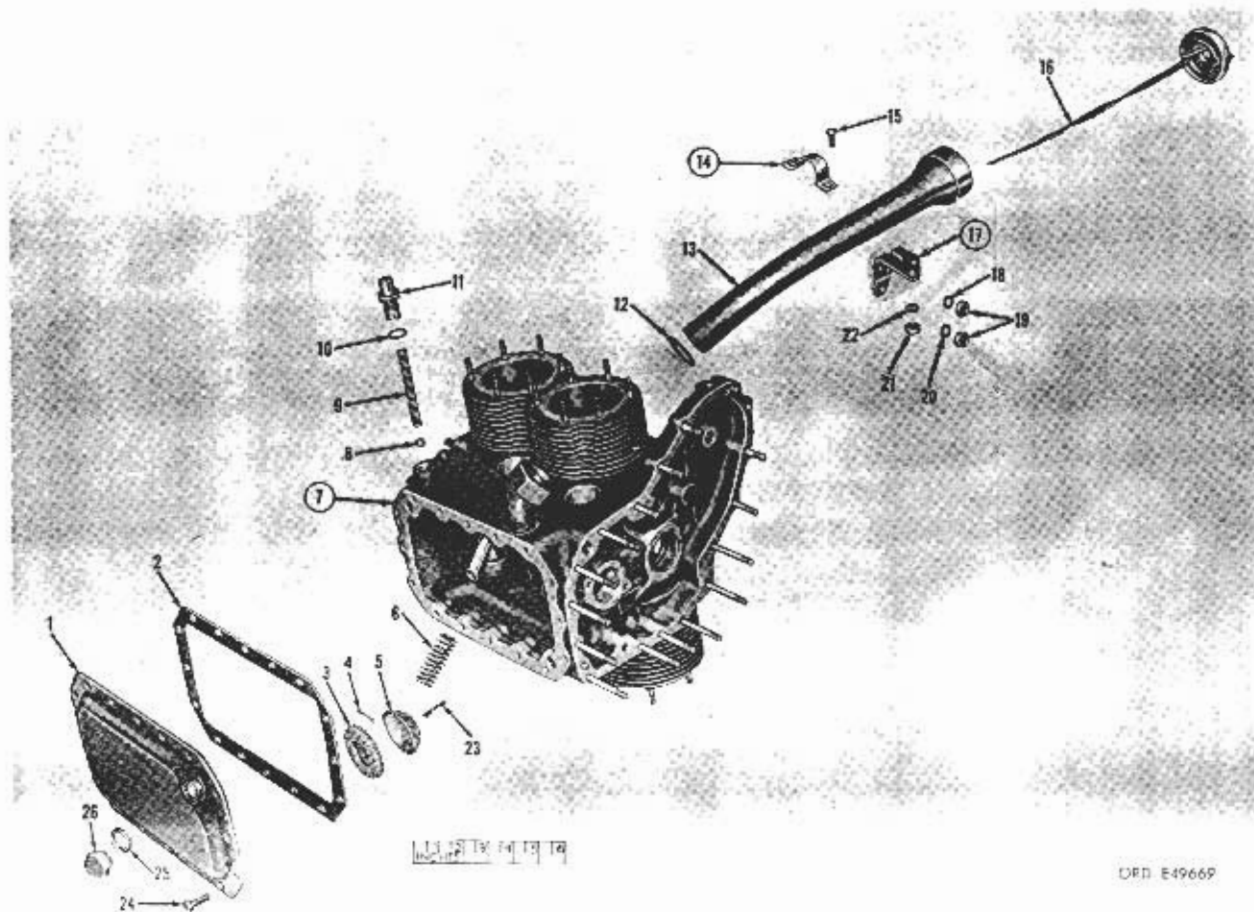
NON-SUPPLY ITEMS

- 2 - BUSHING (4336419)
- 5 - ADAPTER:
 MODEL AU-53 (94537-90727C)
 MODEL AU-53-1 (65909-924907)
- 10 - WASHER (96906-15795-210)
- 11 - SCREW (451176)

FIGURE 26. CRANKSHAFT ADAPTER ASSEMBLY - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT AIW PER 100 EQUIP		(8) DEPOT MAINT COST PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(c) MAINT CODE	(d) SOURC CODE	(e) MAINT LEVEL	(f) RECOV LEVEL					(a) 3RD ECH DIR SUP	(b) 4TH ECH GEN SUP		
<u>Crankshaft Adapter Assembly (fig. 26)</u>													
26	1			P	H	R	2505-633-6467	ADAPTER ASSEMBLY: crankshaft:	ea	1		12	
				P	H	R	2805-996-3785	Model A0-53 (7966553) ----- Model A0-53-1 (65909-924906) -----	ea	1		10	
	3			P	F		2505-633-6466	SEAL, PLAIN, ENCASED: rear main bearing (7050002) -	ea	1		100	
	4			P	F		5315-058-5911	PIN, SPRING: 3/32 x 3/8 lg (96906-9048-067) ----	ea	1		8	
	6			P	H		5305-698-4419	SETScrew: bearing adapter (7966556) -----	ea	1		5	
	7			P	H		5310-527-3289	WASHER, LOCK: int-teeth, 1/4 screw size (96906-35333-23)	ea	1		12	
	8			P	H		5310-995-3289	WASHER, FLAT: 9/32 id, 5/8 od, 0.065 thk (7046708)	ea	1		10	
	9			P	H		2805-698-1883	BEARING, SLEEVE: rear main (7966554) -----	ea	1		12	
NON-ILLUSTRATED ITEMS													
				P	F		2805-697-5591	GASKET: adapter to block (7966555): ----- Model A0-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model A0-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1		40	
				P	H		5310-012-0368	NUT, PLAIN, HEXAGON: 5/16-24UNF-2B (adapter to block) (96906-35690-525)	ea	6		48	
				P	F		5330-808-0848	PACKING, PREFORMED: "O" ring (crankshaft adapter seal) (Model A0-53-1 only) (94517-927144)	ea	1		100	
				P	H		5310-050-2245	WASHER, FLAT: 21/64 id, 9/16 od, 0.063 thk (adapter to block) (502245)	ea	6		48	
				P	H		5310-619-8061	WASHER, LOCK: int-teeth, 5/16 bolt size (adapter to block) (96906-35333-24)	ea	6		46	

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
(a) FIG NO	(b) ITEM NO	(c) MATER CODE	(d) SOURCE	(e) MAINTNANCE LEVEL	(f) RECOVERABILITY				(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)		
27	1		P	F		2805-697-7753	Engine Block Assembly and Associated Parts (fig. 27) PAN ASSEMBLY: oil (7966543) -----	ea	1			4
	2		P	F		2805-698-0240	GASKET: oil pan (7966542): ----- Model A0-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model A0-53-1 (☆ GASKET SET - 2805-946-3792) (Refer to page 50.)	ea	1			100
	3		P	F		2940-588-0016	STRAINER ELEMENT, OIL: suction (lower) (7055958)	ea	1			6



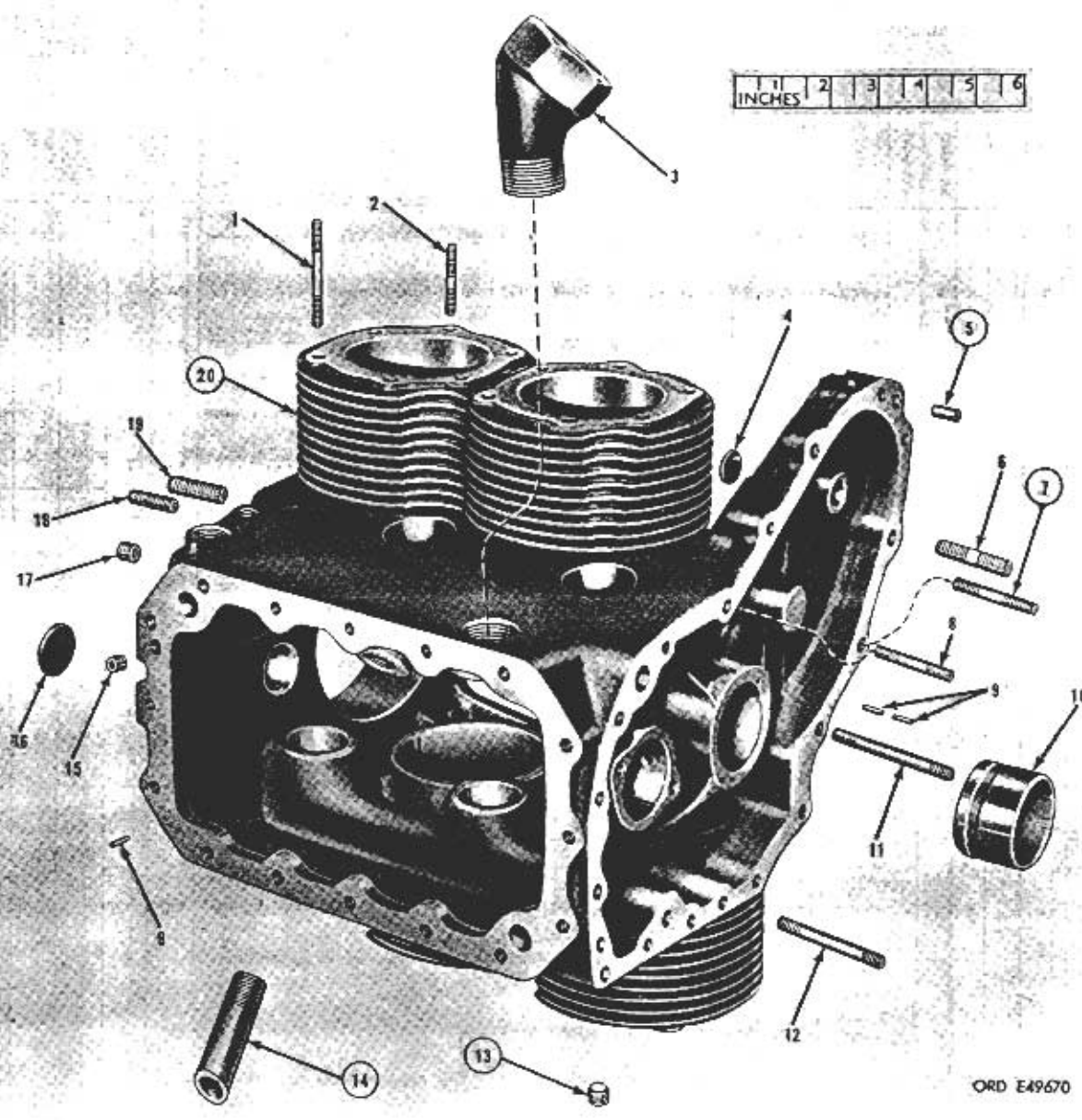
NON-SUPPLY ITEMS

7 - BLOCK ASSY: (refer to fig. 28 for component parts.):
MODEL A0-53 (94537-914342)
MODEL A0-53-1 (65909-928300)

14 - CLAMP (7966915)
17 - BRACKET (7966920)

FIGURE 77. ENGINE BLOCK ASSEMBLY AND ASSOCIATED PARTS - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DIFFT MAINT GUIDE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(c) MATHC. LOC	(d) SOURCE	(e) MAINT LEVEL	(f) REC RECOVERABILITY					(g) 3RD ECH 100 SUP	(h) 4TH ECH 100 SUP		
27	4		P	F		5315-017-9252	PIN, COTTER: 1/16 x 1.00 lg (179252) -----	ea	1			10	
	5		P	F		2940-588-0015	STRAINER ELEMENT, OIL: suction (upper) (7055957)	ea	1			6	
	6		P	F		2805-698-0528	SPRING, HELICAL, COMPRESSION: oil strainer screen (7966545)	ea	1			10	
	8		P	O		3110-151-9102	BALL, BEARING: relief valve (109113) -----	ea	1			20	
	9		P	O		2805-698-1013	SPRING, HELICAL, COMPRESSION: relief valve (8730511)	ea	1			20	
	10		P	O		5330-010-5453	GASKET: (105453): ----- Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1			20	
	11		P	O		2805-697-5481	PLUG, PRESSURE RELIEF VALVE: (7966541) -----	ea	1			20	
	12		P	O		5330-196-5385	PACKING, PREFORMED: "O" ring, oil filler tube (501232)	ea	1			45	
	13	X2	O			2805-698-1972	TUBE: oil filler, assy (7966946) -----	ea	1			*	
	15		P	O		5305-337-2576	SCREW, CAP, HEXAGON HEAD: 1/4-20UNC-2A x 5/8 lg (96906-35291-5)	ea	2			40	
	16		P	O		2805-610-2334	GAGE, ROD, LIQUID LEVEL: (7045642) -----	ea	1			10	
	18		P	O		5310-639-8061	WASHER, LOCK: int-teeth, 5/16 screw size (96906- 35333-24)	ea	1			20	
	19		P	O		5310-012-0368	NUT, PLAIN, HEXAGON: 5/16-24UNF (96906-35690-525)	ea	2			20	
	20		P	O		5310-616-3023	WASHER, LOCK: int-teeth, 5/16 screw size (96906- 35333-23)	ea	1			20	
	21		P	O		5310-012-0375	NUT, PLAIN, HEXAGON: 1/4-20UNC (96906-35690-405) -	ea	2			40	
	22		P	O		5310-582-5965	WASHER, LOCK: split, 1/4 screw size (96906-35338-44)	ea	2			40	
	23		P	F		5315-011-9120	PIN, COTTER: 3/32 x 1-1/4 lg (119120) -----	ea	1			20	
	24		P	F		5306-018-7979	BOLT, ASSEMBLED WASHER: hex-hd, ext teeth lock, 1/4-20UNC-2A x 3/4 lg (187979)	ea	16			160	
	25		P	O		5330-010-5455	GASKET: oil pan drain plug (105453): ----- Model AO-53 (☆ GASKET SET - 2805-698-2144) (Refer to page 50.) Model AO-53-1 (☆ GASKET SET - 2805-996-3792) (Refer to page 50.)	ea	1			100	
	26		P	O		4730-202-7002	PLUG, MACHINE THREAD: 5/16-18UNC-2A (445085) ---	ea	1			20	



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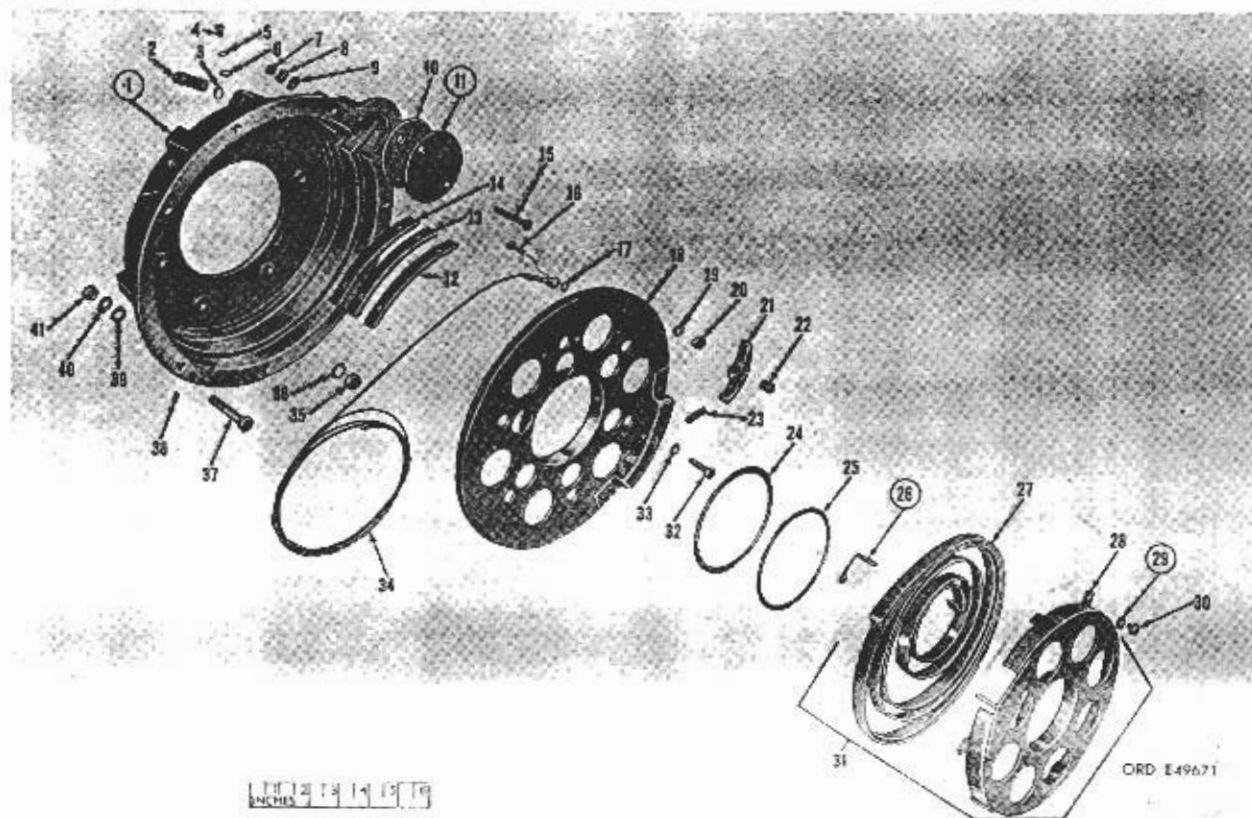
NON-SUPPLY ITEMS

- 5 - PIN (544009)
- 7 - STUD (MODEL AO-53-1 ONLY) (103159)
- 13 - PLUG (143932)
- 14 - TUBE (8336418)
- 20 - BLOCK:
 MODEL AO-51 (94537-914243)
 MODEL AO-53-1 (65909-934002)

FIGURE 28. ENGINE BLOCK (PARTIAL ASSEMBLY) -- EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALW PER 100 EQUIP		(8) DEPOT MAINT GUIDE PER 100 EQUIP (15TH ECH)
(a) FIG NO	(b) ITEM NO	(a) MAINT CODE	(b) SOURCE	(c) MAINT LEVEL	(d) RECOVERABILITY					(a) 3RD ECH ID & SUPP	(b) 4TH ECH IGEN SUPP		
							<u>Engine Block (Partial Assembly) (Fig. 28)</u>						
28	1		P	F		5305-607-3534	STUD, STEPPED: cylinder head to block (5/16-18NC-4 x 1/4-28NF-3 x 2-3/32 lg) (Model AO-53) (7005487)	ea	1			12	
	2		P	F		5307-607-3537	STUD, STEPPED: cylinder head to block (5/16-18NC-4 x 1/4-28NF-3 x 1-21/32 lg) (7005486)	ea	24			192	
	3		P	O		4730-698-3870	ELBOW, PIPE TO TUBE: oil filler (7966840) -----	ea	1			10	
	4		P	H		5340-543-3037	PLUG, EXPANSION: magneto bearing (541430) -----	ea	1			10	
	6		P	F		5307-587-1439	STUD, PLAIN: accessory drive housing to block: Model AO-53 (7055670) -----	ea	2			12	
			P	F		5307-010-3180	Model AO-53-1 (103180) -----	ea	1			6	
	8		P	H		5307-569-0935	STUD, PLAIN: accessory drive housing to engine block (1/4-20NC x 1/4-28NF-3 x 1-3/4 lg) (7966530)	ea	2			24	
	9		P	F		5315-058-5911	PTN, SPRING: 3/32 x 3/8 lg (tappet guide) (585911)	ea	4			32	
	10		P	H		2805-698-1901	BEARING, SLEEVE: front main (7966552) -----	ea	1			12	
	11		P	F		5307-569-0932	STUD, PLAIN: accessory drive housing to block (3), oil pump to accessory drive housing (6) (1/4-20NC x 1/4-28NF-3 x 2-11/16 lg) (7966531)	ea	9			72	
	12		P	F		5307-569-0934	STUD, PLAIN: engine block (1/4-20NC x 1/4-28NF-3 x 2-1/4 lg) (7966532)	ea	1			12	
	15		P	F		4730-044-4683	PLUG, PIPE: (444683) -----	ea	2			10	
	16		P	H		5340-054-1436	PLUG, EXPANSION: (541436) -----	ea	1			20	
	17		P	F		4730-044-4683	PLUG, PIPE: (444683) -----	ea	2			10	
	18		P	F		5307-698-4414	STUD: oil pump housing to fuel pump (5/16-24NF-3 x 5/16-18NCS x 1-1/4 lg) (7966528)	ea	2			18	
	19		P	F		5307-569-0931	STUD, PLAIN: block to flywheel housing (3/8-16NC x 3/8 24NF-3 x 1-3/8 lg) (7966527)	ea	5			60	

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEFCT MAINT GUIDE PER 100 EQUIP 15TH ECH	
(a) FIG NO	(b) ITEM NO	(c) MATHC CODE	(d) SOURCE	(e) MAINTNANCE LEVEL	(f) RECOVERABILITY				(i) 3RD ECH SUPP	(j) 4TH ECH SUPP			
							<u>Hand Starting Components (fig. 29)</u>						
29	2		P	O		4030-698-6944	QUICK DISCONNECT: (7966837) -----	ea	1		10		
	3		P	F		5330-050-1220	PACKING, PREFORMED: "O" ring (501220) -----	ea	1		24		
	4		P	F		5305-016-0046	SCREW, MACHINE: no. 10-32NF x 1/2 lg (96906-35209-59)	ea	2		20		
	5		P	F		5310-012-1801	WASHER, LOCK: int-teeth, no. 10 screw size (96906-35333-22)	ea	2		40		
	6		P	F		5310-050-2243	WASHER, FLAT: 7/32 id, 3/8 od, 0.035 thk (502243) ---	ea	2		20		
	7		P	F		5310-616-1288	NUT, PLAIN, HEXAGON: 1/4-20 (96906-35690-405) ---	ea	2		24		
	8		P	F		5310-527-3289	WASHER, LOCK: int-teeth, 1/4 screw size (Model AO-53 only) (96906-35333-23)	ea	2		24		
	9		P	F		5310-194-1540	WASHER, FLAT: 1/4 screw size (96906-15795-210) ---	ea	2		24		
	10		P	O		2520-678-5364	GASKET: transmission housing cover seal (7045769)	ea	1		20		
	12		P	F		2805-698-2169	SHOE, STARTER: Model AO-53 (7966927) -----	ea	1		10		
			P	F		2990-996-3813	Model AO-53-1 (65909-933945) -----	ea	1		10		



1 - HOUSING (7966923)
11 - PLATE (7966924)

NON-SUPPLY ITEMS
26 - CLIP (MODEL AO 53 ONLY) (7966927)
29 - WASHER (MODEL AO-53-1 ONLY) (65909-933945)

FIGURE 29. HAND STARTING COMPONENTS - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEFECT MAINT GUIDE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(c) MAINT CODE	(d) SOURCE	(e) MAINT LTR	(f) RECOVERABILITY				(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)		
29	13		P	F			SHIM; 0.020 thk (starter shoe) (65909-933954) --	ea	1			10
	14		P	F			SHIM; 0.010 thk (starter shoe) (65909-933949) --	ea	1			10
	15		P	F		5305-012-1960	SCREW, CAP, HEXAGON HEAD: 1/4-20UNC-2A x 2-1/4 lg (96906-35291-15)	ea	2			40
	16		P	F		5305-015-9929	SCREW, MACHINE; no. 10-24NC x 5/8 (96906-35208-56)	ea	1			10
	17		P	F		5310-587-1440	WASHER, FLAT; no. 10 screw size (7027385) -----	ea	1			10
	18		P	F		2990-678-4650	PULLEY, ENGINE STARTER ROPE:	ea	1			6
			P	F		2990-996-3814	Model AO-53 (7045729) ----- Model AO-53-1 (65909-933942) -----	ea	1			6
	19		P	F		5310-044-6161	WASHER, FLAT: (446161) -----	ea	1			20
	20		P	F		5310-050-3262	NUT, SELF-LOCKING, HEXAGON; no. 10-24NC-3B (503262)	ea	1			10
	21		P	F		2990-678-4652	PAWL, HAND STARTER:	ea	1			10
			P	F		2990-996-3816	Model AO-53 (7045726) ----- Model AO-53-1 (65909-933944) -----	ea	1			10
	22		P	F		3120-632-4052	BEARING, SLEEVE; starter pawl:	ea	1			10
			P	F		2990-996-3815	Model AO-53 (7045653) ----- Model AO-53-1 (65909-933953) -----	ea	1			10
	23		P	F		2990-678-4653	SPRING, HELICAL, COMPRESSION; pawl (7045725) -----	ea	1			20
	24		P	F		5310-698-6988	WASHER; backup (7966838) -----	ea	1			12
	25		P	F		5340-569-1057	RING, RETAINING:	ea	1			12
			P	F		5340-995-3286	Model AO-53 (7966618) ----- Model AO-53-1 (80756-ES350-C) -----	ea	1			10
	27		P	F		2990-678-4649	SPRING, SPIRAL, TORSION; starter rewind:	ea	1			20
							Model AO-53 (7045734) ----- Model AO-53-1 (use COVER AND SPRING ASSY - 2990-996-3818) (65909-923922)	ea	1			
	28		P	F		2990-678-4651	COVER, STARTER SPRING; rewind:	ea	1			12
							Model AO-53 (7045727) ----- Model AO-53-1 (use COVER AND SPRING ASSY - 2990-996-3818) (65909-933943)	ea	1			
	30		P	F		5305-015-9997	SCREW, MACHINE; no. 10-32NF x 1/4 (96906-35209-51)	ea	3			60
	31		P	F		2990-996-3818	COVER AND SPRING ASSEMBLY: (Model AO-53-1 only) (65909-933943)	ea	1			5
	32		P	F		5306-632-4054	BOLT, MACHINE; starter pawl:	ea	1			20
			P	F		5306-995-3284	Model AO-53 (7046964) ----- Model AO-53-1 (65909-933952) -----	ea	1			10
	33		P	F		5305-632-4055	WASHER, IAB; starter pawl (7045652) -----	ea	1			5
	34		P	F		2590-569-0811	WIRE ROPE ASSEMBLY, SINGLE LEG:	ea	1			20
			P	F		2990-996-3821	Model AO-53 (7966612) ----- Model AO-53-1 (65909-933946) -----	ea	1			10
	35		P	F		5310-587-1443	NUT, PLAIN, HEXAGON: (7027986) -----	ea	5			50
	36		P	F		5310-013-8542	WASHER, LOCK: int-teeth, 3/8 bolt size (96906-35333-25)	ea	5			50
	37		P	F		5305-012-0608	SCREW, CAP, HEXAGON HEAD: 3/8-24UNF-2A x 2-1/4 lg (96906-35292-67)	ea	6			60
	38		P	F		4730-044-4683	PLUG, PIPE: (444683) -----	ea	2			10
	39		P	F		5310-013-8542	WASHER, LOCK: int-teeth, 3/8 screw size (138342) -	ea	6			100
	40		P	F		5310-637-9541	WASHER, LOCK: split, 3/8 screw size (96906-35335-46)	ea	6			60
	41		P	F		5310-012-0369	NUT, PLAIN, HEXAGON: 3/8-24UNF (96906-35690-625) -	ea	6			60

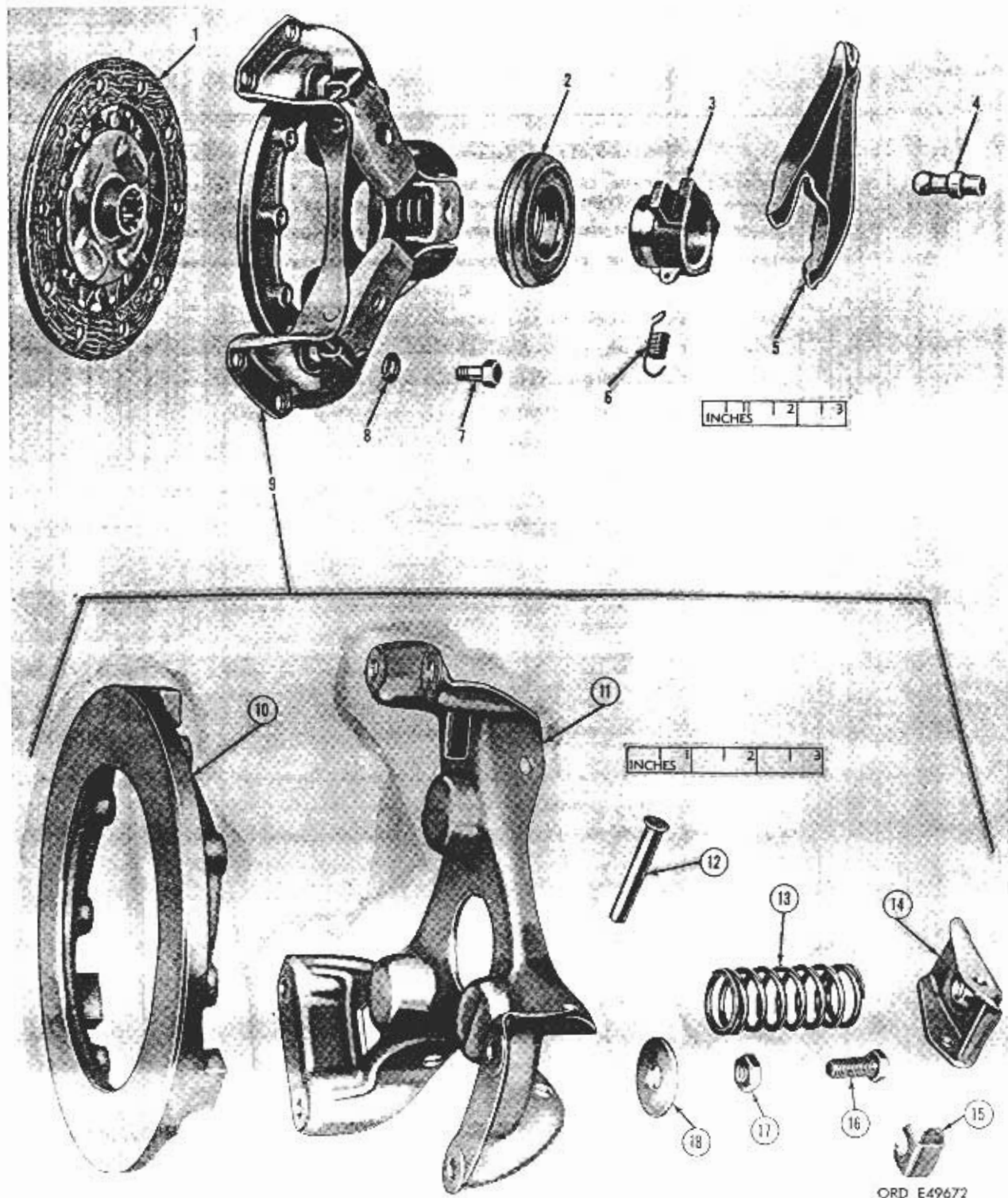


FIGURE 30. CLUTCH PLATE ASSEMBLY AND ASSOCIATED PARTS — EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPOT MAINT GUIDE PER 100 EQUIP (15TH EC-1)
(a) FIG NO	(b) ITEM NO	(c) MATERIEL CODE	(d) SOURCE	(e) MAINTENANCE LEVEL	(f) RECOVERABILITY	(a) 3RD ECN IOR SUPP					(b) 4TH ECN IOR SUPP		
<u>Clutch Plate Assembly and Associated Parts (fig. 30)</u>													
30	1		P	F		2520-697-3831	DISK, CLUTCH: driven (7966621) -----	ea	1			50	
	2		P	F		3110-158-6196	BEARING, BALL, THRUST: (710203) -----	ea	1			60	
	3		P	F		2520-508-2288	CARRIER: release bearing (8336040) -----	ea	1			5	
	4		P	F		5307-588-0020	STUD, BALL: clutch release (7055683) -----	ea	1			6	
	5		P	F		2520-508-2357	YOKE: release, clutch (8336041) -----	ea	1			10	
	6		C	F		2520-368-2630	SPRING: release bearing carrier (7371366) -----	ea	1			30	
	7		P	F		5306-606-9490	BOLT, MACHINE: clutch (7023596) -----	ea	6			60	
	8		P	F		5310-012-0638	WASHER, LOCK: split, 5/16 bolt size (120638) ---	ea	6			60	
	9		P	F	R	2520-508-2324	PLATE ASSEMBLY: pressure (7966624) -----	ea	1			20	

NON-SUPPLY ITEMS

10 - PLATE (7966878)
 11 - BRACKET (7966879)
 12 - PIN (7966866)

13 - SPRING (7966877)
 14 - LEVER (7966865)
 15 - CLIP (7966873)

16 - SCREW (7966872)
 17 - NUT (114493)
 18 - WASHER (7966870)

FIGURE 30 - CONTINUED.

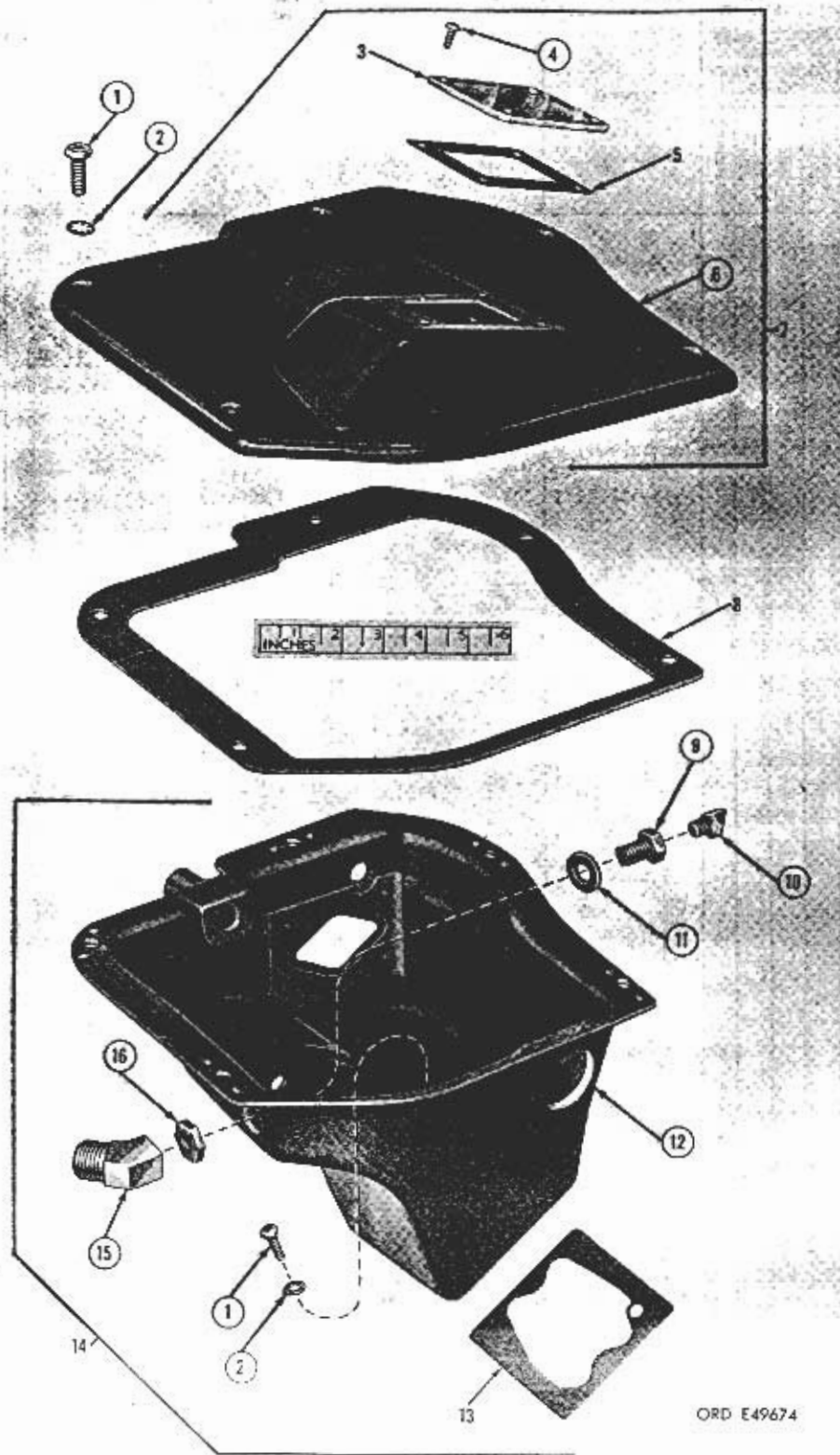


NON-SUPPLY ITEMS

- 1 - PLATE (8336390)
- 4 - SHROUD ASSY:
 MODEL AO-53 (7966831)
 MODEL AO-53-1 (65909-923863)

FIGURE 31. ENGINE SHROUDS AND ASSOCIATED PARTS - EXPLODED VIEW.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT COST PER 100 EQUIP -33% EC-1
(a) FIG NO	(b) ITEM NO	(c) MAINT CODE	(d) SUBC CODE	(e) MAINT LEVEL	(f) RECOV CODE					(a) 3RD ECH IDR SOP	(b) 4TH ECH IGEN SOP		
<u>Engine Shrouds and Associated Parts (Fig. 31)</u>													
31	2	P	0			2805-627-8323	COVER, SHROUD, ENGINE: (7059069) -----	ea	2			10	
	3	P	0			5305-059-7914	SCREW, ASSEMBLED WASHER: pan-hd, ext-teeth lockwasher, no. 10-24 x 3/8 lg (96906- 35208-53)	ea	14			140	
	5	P	0			5340-543-4381	BUTTON, PLUG: engine shroud (top) (Model A0-53) (142091)	ea	1			10	
NON-ILLUSTRATED ITEMS													
		P	0			5310-044-5400	NUT, SHEET SPRING: (carburetor mounting plate) (Model A0-53 only) (445400)	ea	2			20	
		P	0			5305-016-1895	SCREW, TAPPING, THREAD FORMING: pan-hd, no. 10 x 1/2 lg (carburetor mounting plate) (Model A0-53 only) (161895)	ea	2			20	
		P	0			5310-013-8479	WASHER, LOCK: ext-teeth, no. 10 screw size (carburetor mounting plate) (Model A0-53 only) (96906-35335-18)	ea	2			20	



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FIGURE 32. CARBURETOR PROTECTION WELL AND ASSOCIATED PARTS (MODEL AO-53-1 ONLY) - EXPLODED VIEW.

(1) ILLUSTRATION		(2) SOURCE, MAINT AND RECOVERABILITY CODE					(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15 DAY MAINT ALW PER 100 EQUIP		(8) DEPT MAINT GUIDE PER 100 EQUIP (15TH ECH)
FIG NO	ITEM NO	ACTIVE CODE	SOURCE	MAINTENANCE	RECOVERABILITY					3RD ECH (DIR SUP)	4TH ECH (GEN SUP)		
<u>Carburetor Protection Well and Associated Parts (Model A0-53-1 only) (fig. 32)</u>													
32	3	P	0			2910-953-4851	WINDOW: well cover (65909-934578) -----	ea	1			10	
	5	P	0			2910-953-4853	GASKET: window to cover (65909-934577) -----	ea	1			10	
	7	P	0			2910-953-4850	COVER ASSEMBLY: (65909-934579) -----	ea	1			10	
	8	P	0			2910-953-4854	GASKET: well to cover (65909-934629) -----	ea	1			10	
	13	P	0			2910-953-4849	GASKET: (65909-934598) -----	ea	1			10	
	14	P	0			2910-953-4852	WELL ASSEMBLY: carburetor protection (65909-934626)	ea	1			10	

NON-SUPPLY ITEMS

1 - SCREW (160541)
 2 - WASHER (120423)
 4 - SCREW (161790)

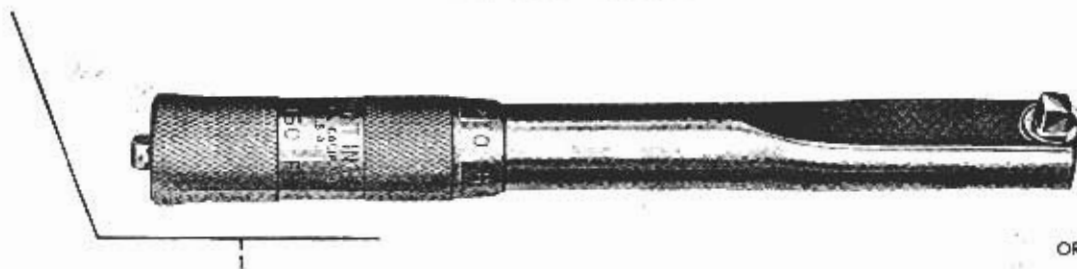
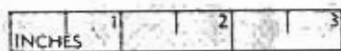
6 - COVER (65909-934580)
 9 - UNION (65909-934564)
 10 - ELBOW (125859)
 11 - GASKET (65909-934565)

12 - WELL (65909-934586)
 15 - ELBOW (9409927)
 16 - NUT (65909-934563)

FIGURE 12 - CONTINUED.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8) DEPOT MAINT GUIDE PER 100 EQUIP 15TH ECH
(a) FIG NO	(b) ITEM NO	(c) MAINT FOR	(d) SOURCE	(e) MAINTENANCE LIFE	(f) RECOVERABILITY				(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)		
<u>Engine Overhaul Gasket Set - Non-illustrated</u>												
GASKET SET, ENGINE OVERHAUL:												
			P	H		2805-698-2144	Model A0-53 (5702416): ----- Composed of: 2 GASKET: carburetor mounting (☆) (7046974) 1 GASKET: fuel pump mounting (☆) (7966809) 1 GASKET: magneto mounting (☆) (8698458) 4 GASKET: exhaust pipe (☆) (7998705) 1 GASKET: hour meter (☆) (7966819) 1 GASKET: oil pump housing (☆) (8730513) 1 GASKET: oil filter (☆) (8713449) 1 GASKET: oil cooler adapter (☆) (7966548) 2 GASKET: oil cooler bracket (☆) (7044005) 1 GASKET: accessory drive bracket (☆) (7966585) 4 GASKET: valve rocker cover (☆) (7966518) 4 GASKET: cylinder head (☆) (7046946) 1 GASKET: accessory drive housing (☆) (7966586) 3 GASKET: oil cooler bypass, oil drain plug, pressure relief (☆) (105453) 1 GASKET: intake manifold (☆) (7966562) 4 GASKET: intake flange (☆) (7966841) 1 GASKET: crankshaft adapter (☆) (7966555) 1 GASKET: oil pan mounting (☆) (7966542)	ea	1		10	
1	5											
1	10											
1	11											
1	12											
3	3											
10	8											
12	2											
13	3											
13	10											
14	1											
15	2											
15	14											
18	3											
18	15											
27	10,											
	25											
20	5											
20	23											
26												
27	2											
			P	H		2805-996-3792	Model A0-53-1 (65909-934799): ----- Composed of: 1 GASKET: fuel pump mounting (☆) (7966809) 1 GASKET: magneto mounting (☆) (8698458) 4 GASKET: exhaust pipe (☆) (7998705) 2 GASKET: carburetor mounting (☆) (7046974) 1 GASKET: hour meter (☆) (7966819) 1 GASKET: oil pump housing (☆) (8730513) 1 GASKET: oil filter (☆) (8713449) 1 GASKET: oil cooler adapter (☆) (7966548) 2 GASKET: oil cooler bracket (☆) (7044005) 1 GASKET: accessory drive bracket (☆) (65909-927990) 4 GASKET: valve rocker cover (☆) (7966518) 4 GASKET: cylinder head (☆) (7953459) 1 GASKET: accessory drive housing (☆) (7966586) 3 GASKET: oil cooler bypass, oil drain plug, pressure relief (☆) (105453) 1 GASKET: intake manifold (☆) (7966562) 4 GASKET: intake flange (☆) (7046975) 1 GASKET: crankshaft adapter (☆) (7966555) 1 GASKET: oil pump housing (☆) (7966542)	ea	1		10	
1	10											
1	11											
1	12											
4	18											
4	30											
10	8											
12	2											
13	3											
13	10											
14	1											
15	2											
15	14											
18	3											
18	15											
27	10,											
	25											
20	5											
20	23											
26												
27	2											

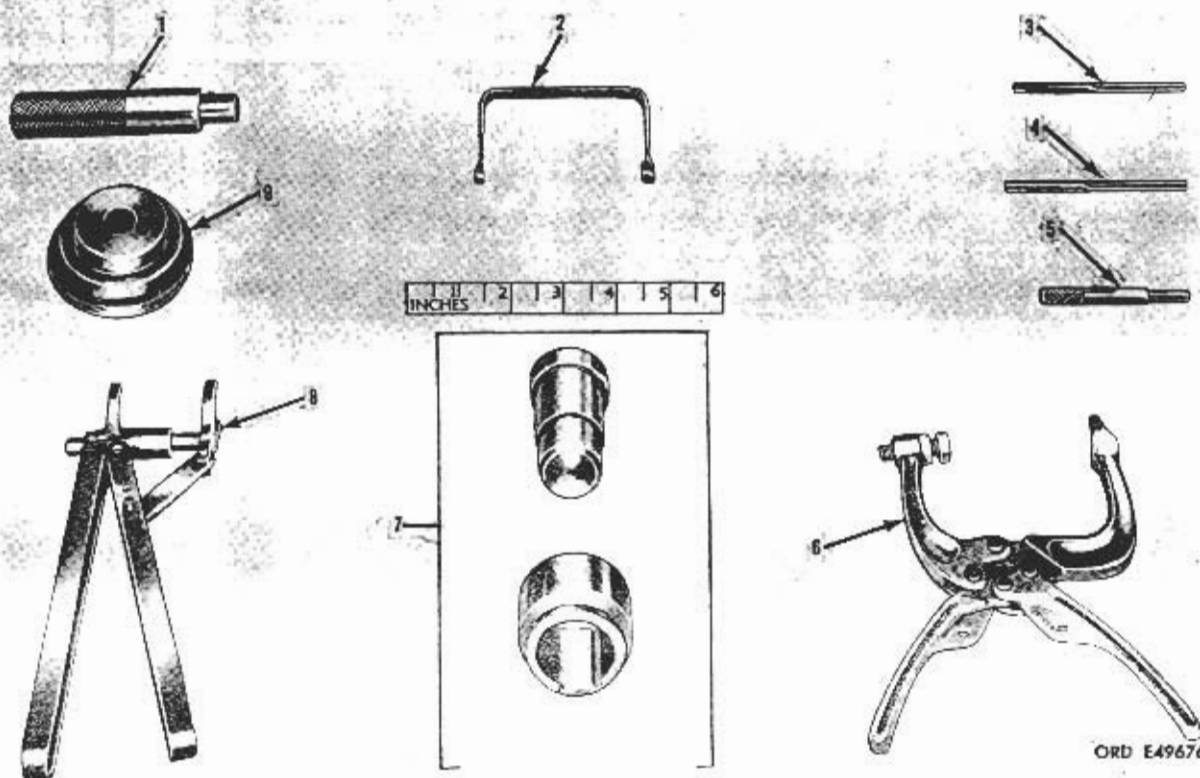
(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) MINIMUM ALLOWANCE		
(a) FIG NO	(b) ITEM NO	(c) PATTERN CODE	(d) SOURCE	(e) MAINTENANCE TYPE	(f) RECOVERABILITY				(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)	(c) 5TH ECH (GEN SUP)
33	1		P	H		5120-542-4489	<p style="text-align: center;">SECTION III</p> <p style="text-align: center;">FIELD AND DEPOT SPECIAL TOOLS</p> <p style="text-align: center;">NOTE</p> <p>The special tools listed below are designed for use with the materiel and are listed for information only. Refer to SM 9-4-518C-J16, Section 73, for Tool Kit application.</p> <p style="text-align: center;"><u>Connecting Rod Nuts Torque Wrench (fig. 33)</u></p>	ea	1		
							WRENCH, TORQUE: connecting rod nuts (GGC-W-686, Type III, Class I, Size 1)				



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FIGURE 33. CONNECTING ROD NUTS TORQUE WRENCH.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) MINIMUM ALLOWANCE		
(a) FIG NO	(b) ITEM NO	(a) MATERIAL CODE	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY				(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GRN SUP)	(c) 5TH ECH (GEN SUP)
<u>Special Tools (fig. 34)</u>											
34	1		P	O		5120-601-2234	HANDLE: used w/REPLACERS (7010321) -----	ea	1	1	
	2		P	F		5120-601-2228	WRENCH, BOX: engine cylinder head nuts (7010313)	ea	1	1	
	3		P	H		5110-601-2233	REAMER, HAND: engine intake valve guide (7010320)	ea		1	
	4		P	H		5110-601-2232	REAMER, HAND: engine exhaust valve guide (7010319)	ea		1	
	5		P	H		5120-601-2222	REMOVAL AND REPLACER: engine valve guide (7010300)	ea		1	
	6		P	F		5120-601-2219	LIFTER, VALVE SPRING: engine valve spring (7010289)	ea	1	1	
	7		P	H		5120-601-2220	REMOVAL AND REPLACER: engine front main bearing (7010296)	ea		1	
	8		P	H		5120-601-2218	COMPRESSOR, SPRING, HAND: engine push rod tube springs (7010279)	ea		1	
	9		P	F		5120-601-2221	REPLACER, OIL SEAL: engine rear main bearing oil seal (used w/HANDLE - 5120-601-2234) (7010299)	ea	1	1	



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FIGURE 34. SPECIAL TOOLS.

SECTION IV—INDEXES

ALPHABETICAL INDEX

This index includes all supply items listed in this manual except standard hardware items; e.g., nuts, bolts, lock washers, etc.

ITEM	Page	ITEM	Page
ADAPTER:		COVER ASSEMBLY, carburetor protec-	
Crankshaft -----	37	tion well -----	49
Valve cover -----	25	CRANKSHAFT, engine -----	34
BALL:		CYLINDER HEAD, engine -----	25
Oil cooler bypass -----	27	DISK, clutch, engine -----	45
Oil cooler relief valve -----	39	ELBOW:	
BEARING:		Fuel filter inlet -----	9
Accessory drive shaft -----	23	Fuel pump outlet -----	9
Clutch release -----	45	Magneto to air cleaner hose tube -	13
Cooling blower impeller shaft ---	15	Magneto to intake manifold tube --	13
Crankshaft front main -----	41	Oil filler tube -----	41
Crankshaft rear main -----	37	Rocker arm cover drain -----	25
Idler pulley bolt -----	16	ELEMENT KIT, oil filter -----	21
Idler pulley shaft -----	17	ENGINE BLOCK ASSEMBLY -----	7, 8
Magneto drive sprocket -----	35	EXHAUST PIPE, flexible -----	7, 9
Pilot, flywheel -----	35	FILTER, oil -----	21
Starter pawl -----	43	GAGE, oil level -----	39
BEAKING SET, connecting rod -----	33	GASKET:	
BELT SET, V, impeller drive -----	9	Accessory drive bracket to housing	23, 50
BELT, V, impeller drive -----	7	Accessory drive housing to block -	27, 50
BOLT:		Adapter to block -----	37
Connecting rod cap -----	33	Adapter to carburetor -----	11
Shoulder, idler pulley -----	16	Carburetor mounting -----	7, 11,
Starter pawl -----	43	50	
BRACKET:		Carburetor protection well cover -	49
Accessory drive -----	43	Carburetor protection well to block	49
Bellcrank -----	11	Carburetor protection well window	49
Oil cooler support -----	21	Cylinder head -----	25, 50
Oil filler tube -----	37	Exhaust flange to cylinder head -	7
BUSHING:		Fuel pump mounting -----	7, 9,
Crankcase breather -----	13	50	
Oil pump to tee -----	18	Governor mounting -----	11
CAMSHAFT, engine -----	34	Hour meter mounting -----	11, 50
CAP, idler pulley -----	17	Intake manifold -----	29, 50
CARBURETOR, engine -----	7, 11	Intake manifold tube flange -----	29, 50
CARRIER, clutch release bearing --	45	Magneto mounting -----	7, 9,
CHAIN:		50	
Camshaft to magneto -----	27	Oil cooler bracket -----	21, 50
Crankshaft to camshaft -----	27	Oil cooler bypass -----	27, 50
CLAMP:		Oil filter -----	21, 50
Blower assembly -----	7, 9	Oil pan drain plug -----	39, 50
Crankcase breather tube -----	13	Oil pan mounting -----	38, 50
Exhaust pipe -----	9	Oil pump mounting -----	18, 50
Lead and conduit -----	7, 9	Spark plug -----	7, 9
CLIP, rocker cover lines -----	25	Transmission housing cover seal -	42
CONNECTING ROD -----	33	Valve rocker cover -----	24, 50
CONNECTOR, magneto to intake mani-		Valve tappet guide, nonmetallic -	25
fold tube -----	13	GASKET SET, engine overhaul -----	50
CORE, oil cooler -----	21	GEAR:	
COUPLING AND DEFLECTOR, accessory		Accessory drive -----	23
drive shaft -----	23	Governor driven -----	11
COVER:		Hour meter driven -----	11
Engine shroud -----	47	GOVERNOR, engine -----	7, 11
Starter spring -----	43		
Valve rocker -----	24		

ITEM	Page	ITEM	Page
GUIDE:		PLUG - Continued:	
Exhaust and intake valve -----	26	Oil cooler bypass -----	27
Valve tappet -----	25	Oil cooler relief valve -----	39
HOSE:		Oil line cam -----	41
Carburetor fuel inlet -----	11	Oil pan drain -----	39
Carburetor fuel return -----	11	PULLEY:	
HOUR METER, engine (See METER, time totalizing, hour)		Accessory drive -----	23
HOUSING:		Cooling blower -----	15
Accessory drive -----	27	Engine starter rope -----	43
Cooling blower impeller -----	15	Idler -----	16,17
IMPELLER AND SHAFT ASSEMBLY, cooling blower -----	15	PUMP:	
KEY, Woodruff:		Fuel -----	7,9
Accessory drive shaft to pulley -	23	Oil -----	18
Camshaft sprocket -----	34	PUSH ROD, valve rocker arm -----	25
Cooling blower pulley -----	15	QUICK DISCONNECT, starter cable --	42
KIT:		REDUCER, intake manifold pipe ----	29
Ignition magneto -----	13	RETAINER, exhaust and intake lock valve spring -----	24
Lead and conduit -----	8	RING:	
Oil filter -----	21	Accessory drive gear retaining --	23
LEAD AND CONDUIT ASSEMBLY, electrical -----	7	Cooling blower impeller shaft retaining -----	15
LEVER, bellcrank fuel control ----	11	Idler pulley shoulder bolt -----	16
LINKAGE, throttle ball joint ----	11	Starter rope pulley retaining ---	43
MAGNETO, ignition -----	7,9	Starting pawl -----	34
METER, time totalizing, hour ----	11	RING SET, piston -----	32
NUT:		ROCKER ARM:	
Crankshaft -----	34	Exhaust -----	27
Rocker arm adjusting screw -----	26	Intake -----	24
PACKING, "O" ring:		ROTOR, exhaust and intake valve --	24
Crankshaft adapter seal -----	37	SCREW, valve rocker arm adjusting	26
Intake manifold tube -----	29	SEAL:	
Starter cable quick disconnect --	42	Accessory drive bracket -----	23
PACKING, push rod housing -----	25	Crankshaft rear main bearing ----	37
PAN ASSEMBLY, oil -----	38	Idler pulley -----	17
PAWL, hand starter -----	43	Spark plug -----	7,9
PIN:		SEAT, exhaust and intake valve ---	25
Bellcrank bracket and lever ----	11	SERVICE STOP, crankcase breather --	13
Camshaft sprocket positioning ---	34	SETSCREW, crankshaft bearing adapter -----	37
Crankshaft adapter -----	37	SHAFT:	
Gear to governor drive shaft ----	11	Accessory drive -----	23
Hour meter gear locking -----	11	Idler pulley -----	17
Impeller housing -----	23	Rocker arm -----	25
Tappet guide -----	41	SHIM, starter cable shoe -----	43
PIPE, exhaust -----	7,9	SHOE, starter cable -----	42
PIPE, exhaust, flexible -----	7,9	SPACER, thrust plate to sprocket -	34
PISTON, engine -----	31	SPARK PLUG -----	7,9
PLATE:		SPRING:	
Camshaft thrust -----	34	Bellcrank lever -----	11
Clutch pressure -----	45	Exhaust and intake valve -----	25
PLUG:		Magneto sprocket -----	35
Engine block gallery -----	41	Oil cooler bypass -----	27
Engine shroud -----	47	Oil cooler relief valve -----	39
Flywheel housing drain -----	43	Oil strainer screen -----	39
Front cam bearing expansion ----	41	Push rod housing -----	25
Magneto bearing expansion -----	41	Release bearing carrier -----	45
Manifold pressure hole -----	29	Starter pawl -----	43
		Starter rewind -----	43
		SPROCKET:	
		Camshaft drive -----	34
		Magneto drive -----	34

ITEM	Page	ITEM	Page
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Magneto driven -----	34	Magneto -----	13
STRAINER:		Oil pump -----	18
Oil pan screen, lower -----	38	Rocker cover lines -----	25
Oil pan screen, upper -----	39	TUBE:	
STRAP, exhaust pipe half retaining	7	Air cleaner hose to magneto inlet	13
STUD:		Crankcase breather, lh -----	13
Accessory drive housing to acces-		Crankcase breather, rh -----	13
sory drive bracket -----	30	Intake manifold -----	29
Accessory drive housing to block -	30,41	Magneto to intake manifold -----	13
Accessory drive housing to oil		Oil filler -----	39
cooler adapter -----	30	Rocker cover lines -----	25
Accessory drive housing to oil pump	30	VALVE, exhaust and intake -----	25
Accessory drive housing to oil pump	30	WASHER:	
housing -----	30	Camshaft thrust plate to sprocket	34
Carburetor to intake manifold ---	29	Crankshaft -----	34
Clutch release yoke -----	45	Crankshaft thrust -----	34
Cylinder head to block -----	41	Idler pulley spacer -----	17
Exhaust tube flange to cylinder		Starter sheave -----	43
head -----	26	Starter sheave and pawl -----	43
Flywheel housing to block -----	41	WELL ASSEMBLY, carburetor protec-	
Fuel pump to oil pump -----	18	tion -----	49
Intake tube flange to cylinder head	26	WINDOW, carburetor protection well	
Oil pump housing to fuel pump ---	41	cover -----	49
TAPPET, exhaust and intake valve -	25	WIRE ROPE, starter pulley cable ---	43
TEE:		YOKE, clutch release -----	45
Crankcase breather tube -----	13		

FEDERAL STOCK NUMBER INDEX

This index includes the Federal Stock Number of all items listed in this manual except standard hardware items. These numbers are listed in strict numerical sequence.

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MATERIEL AGENCY AND MANUFACTURER'S PART NUMBER INDEX

a. Materiel Agency Part Number. Military Standard numbers are prefixed by the five-digit Federal Supply Code. All other materiel agency numbers appear without any code. These numbers are listed in strict numerical sequence.

b. Manufacturer's Part Number. These numbers are prefixed by the five-digit Federal Supply Code which are listed numerically, first by the supply code and the suffixed part numbers and then listed numerically within that code.

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