

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT AND GENERAL
SUPPORT AND DEPOT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS)
DELOUSING OUTFIT: POWER DRIVEN, GASOLINE ENGINE;
WITH 10 DUSTING GUNS (JOHNSON SERVICE CO. MODEL
252 QM) FSN 4230-889-2315

This copy is a reprint which includes current
pages from Changes 1 and 2.

HEADQUARTERS, DEPARTMENT OF THE ARMY
JANUARY 1967

SAFETY PRECAUTIONS

BEFORE OPERATION

When filling the fuel tank, always provide a metal-to-metal contact between the container and the fuel tank. This will prevent a spark from being generated as fuel flows over the metallic surface.

Remove the ignition cable from the spark plug before making adjustments or before performing maintenance operation which requires turning the engine over by hand. Be sure the delousing outfit has adequate ventilation or has a proper exhaust connection to the outside before operating in an enclosed area, exhaust gases contain carbon monoxide, a colorless, odorless, and poisonous gas.

DURING OPERATION

Do not remove the blower screen to perform maintenance while the unit is operating.

Never point a compressed air hose at personnel. At close range, compressed air can cause serious damage to the eyes and ears.

AFTER OPERATION

When filling the fuel tank, always provide a metal-to-metal contact between the container and the fuel tank. This will prevent a spark from being generated as fuel flows over the metallic surface.

Changes in force: C 2

TM 10-4230-202-15

*C 2

CHANGE }
NO. 2 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 30 June 1978

Operator, Organizational, Direct and General
Support and Depot Maintenance Manual
(Including Repair Parts)

DELOUSING OUTFIT: POWER DRIVEN, GASOLINE ENGINE,
WITH 10 DUSTING GUNS (JOHNSON SERVICE CO.)
MODEL 252 QM NSN 4238-00-889-2315

Current as of 18 April 1978.

TM 10-4230-202-15, 23 January 1967, is changed as follows:

Cover and title page is changed as shown above.

Page ii. The appendices are superseded as follows:

APPENDIX	A.	REFERNCES	A-1
	B.	COMPONENTS OF END ITEM LIST.....	B-1
	C.	MAINTENANCE ALLOCATION CHART	C-1
	D.	ORGANIZATIONAL, DIRECT AND GENERAL SUPPORT AND DEPOT MAINTENANCE REPAIR PARTS	D-1
	E.	EXPENDABLE SUPPLIES AND MATERIALS LIST	E-1

Page 1-1. Paragraphs 1-1b and 1-1e are deleted.

Paragraph 1-1d is superseded as follows:

d. You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank

Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U. S. Army Troop Support and Aviation Materiel Readiness Command, ATTN: DRSTS-MTPS 4300 Goodfellow Boulevard, St. Louis, MO 63120. A reply will be furnished to you.

*This change supersedes C1, 9 May 1972.

Page B-1. Appendix B is superseded as follows:

APPENDIX B
COMPONENTS OF END ITEMS LIST
Section I. INTRODUCTION

B-1. Scope

This appendix lists Integral Components of and Basic Issue Items Lists (BILI) for the Delousing Outfit to help you inventory items required for safe and efficient operation.

B-2. General

The components of end item list are divided into the following sections:

a. Section II. Integral Components of the End Item. These items, when assembled, comprise the Delousing Outfit and must accompany it whenever it is transferred or turned in. These illustrations will help you identify these items.

b. Section III. Basic Issue Items. These are minimum essential items required to place the Delousing Outfit in operation, to operate it and to perform emergency repairs. Although shipped separately packed, they must accompany the Delousing Outfit during operation and whenever it is transferred between accountable officers. The illustrations will assist you with hard-to-identify items. This manual is your authority to requisition replacement BILI based on Table(s) of Organization and Equipment (TOE)/Modification Table of Organization and Equipment (MTOE) authorization of the end item.

B-3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure Number.* Indicates the figure number of the illustration on which the item is shown (if applicable).

(2) *Item Number.* The number used to identify

item called out in the illustration.

b. National Stock Number (NSN). Indicates the national stock number assigned to the end item which will be used for requisitioning.

c. Part Number (P/N). Indicates the primary number used by the manufacturer which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards and inspection requirements to identify an item or range of items.

d. Description. Indicates the federal item name and, if required, a minimum description to identify the item.

e. Location. The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

f. Usable on Code. "USABLE ON" codes are included to help you identify which component items are used on the different models. Identification of the codes used in this list are:

Not Applicable

g. Quantity Required (Qty Reqd). This column lists the quantity of each item required for a complete major item.

h. Quantity. This column is left blank for use during inventory. Under the received column, list the quantity you actually receive on your major item. The date columns are for use when you inventory the major item at a later date, such as for shipment to another site.

Section II. INTEGRAL COMPONENTS OF END ITEM

(1) Illustration		(2) National Stock No.	(3) Part No. & FSCM	(4) DESCRIPTION	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY			
(a) FIG NO.	(b) ITEM NO.							RCVD	DATE	DATE	DATE
B1	3	4230-00-977-0969	144 (29670)	Gun Assembly		CDA	10				
	2	4230-00-087-7771	940-620 (29670)	Canister P/O		CDA	10				
	4	8115-00-134-3130	(60-40392 (32242)	Box, Storage		CDA	1				
D167	15	5330-00-976-9264	952-210 (29670)	Gasket		CDA	10				
D16	9	4230-00-087-7770	39-16656 (32242)	Hose Air		CDA	10				
D16	6	4730-00-494-3271	MILC4109 (81349)	Plug Air		CDA	10				
D16	10	4730-00-277-5678	MILC4109 (81349)	Plug Air		CDA	10				
D16	8	4730-00-908-3194	MS35842-11 (96906)	Clamp, Hose		CDA	20				
B1	11	2990-00-338-1916	8331437 (19207)	Rope Start		CDA	1				

Section III. BASIC ISSUE ITEMS

(1) Illustration		(2) National Stock No.	(3) Part No. & FSCM	(4) DESCRIPTION	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY			
(a) FIG NO.	(b) ITEM NO.							RCVD	DATE	DATE	DATE
		7520-00-559-9618	MIL-C-11743 (81349)	Case Manual		CDA	1				
				DA Lubrication Order LO-10-423.0-202-15		CDA	1				
				DA TM-10-4230-202-15		CDA	1				
B1	4	4240-00-368-6149	MILR3308 (81349)	Respirator		CDA	10				
		4210-00-889-1092	OE915 (81348)	Extinguisher, Fire		CDA	1				

Page E-1. Add Appendix E as follows:

**APPENDIX E
EXPENDABLE SUPPLIES AND MATERIALS LIST
Section I. INTRODUCTION**

E-1. Scope

This appendix lists Expendable Supplies and Materials you will need to operate and maintain the Delousing Outfit. These items are authorized to you by CTA60-970, Expendable Items (except Medical, Class V, Repair Parts and Heraldic Items).

E-2. Explanation of Columns

a. *Column 1 - Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material.

b. *Column 2 - Level.* This column identifies the lowest level of maintenance that requires the listed item.

c. *Column 3- National Stock Number.* This is the national stock number assigned to the item; use it to

request or requisition the item.

d. *Column 4 - Description* Indicates the federal item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parenthesis, if applicable.

e. *Column 5 - Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., each (ea), inch (in), pair (pr), etc.). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	C	9150-00-186-6681	Oil, Eng OE30	QT
2	C	9150-00-402-2372	Oil, Eng Sub Zero	GL
3	C	9130-00-160-1818	91A Gasoline Automotive	GL
4	C	9150-00-190-0904	GAA Grease Automotive	CN

By Order of the Secretary of the Army:

Official:

J.C. PENNINGTON

Brigadier General, United States Army

The Adjutant General

BERNARD W. ROGERS

General United States Army

Chief of Staff

Distribution:

To be distributed in accordance with DA Form 12-25A, Operator maintenance requirements for Delousing Equipment.

TECHNICAL MANUAL }
 No. 10-4230-202-15

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, D. C., 23 January 1967

**Operator, Organizational, Direct and General Support
 and Depot Maintenance Manual (Including Repair Parts)
 DELOUSING OUTFIT: POWER DRIVEN, GASOLINE ENGINE;
 WITH 10 DUSTING GUNS (JOHNSON SERVICE CO.
 MODEL 252 QM) FSN 4230-889-2315**

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*This manual supersedes TM 10-4230-202-15, 41 February 1965.

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**CHAPTER 1
INTRODUCTION**

Section I. GENERAL

1-1. Scope

a. These instructions are published for the use of the personnel to whom the Delousing Outfit, Johnson Service Company Model 252 QM is issued. Chapters 1 through 3 provide information on the operation, preventive maintenance services, and organizational maintenance of the equipment, accessories, components and attachments. Chapters 4 through 6 provides information for direct and general support and depot maintenance. Also included are descriptions of the main units and their functions in relationship to other components.

b. Appendix A contains a list of publications applicable to this manual. Appendix B contains the basic issue items and operating supplies authorized the operator of this equipment for the initial operation. Appendix C contains the maintenance allocation chart. Appendix D contains the organizational, direct and general support and depot maintenance repair parts and special tool lists.

c. Numbers in parentheses on illustrations indicate

quantity.

d. DA Form 2028 (Recommended Changes to DA Publications) will be used for reporting discrepancies and recommendations for improving this equipment publication. This form will be completed by the individual using the manual and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPD, 4300 Goodfellow Blvd., St. Louis, Mo. 63120.

1-2 Record and Report Forms

a. DA Form 2258 (Depreservation Guide of Engineer Equipment).

b. For other record and report forms applicable to operator and organizational maintenance, refer to TM 38-750.

Note. Applicable forms, excluding Standard Form 46 (United States Government Motor Vehicle Operator's Identification Card) which is carried by the operator, will be kept in a canvas bag mounted on the equipment.

Section II. DESCRIPTION AND DATA

1-3. Description

The Johnson Service Company Model 252 QM. delousing outfit (fig. 1-1 and 1-2) mounted on a tubular steel skid frame of all welded construction is a portable, self-contained unit. It is powered by a one-cylinder gasoline engine that is connected to the air compressor by means of a flexible coupling.

1-4. Identification and Tabulated Data

a. *Identification.* The delousing outfit has two identification plates located on the engine housing and compressor housing. The data from these plates can be

found in tabulated data b below.

b. *Tabulated Data.*

(1) *Engine.*

Manufacturer	Wisconsin Motors Co.
Model	MACND
Serial number	
Size	2 5/8 X 2 3/4
RPM(revolutions per.....	2,200
minute).	
Specification number	2310282
Net cont. Help.....	2.68

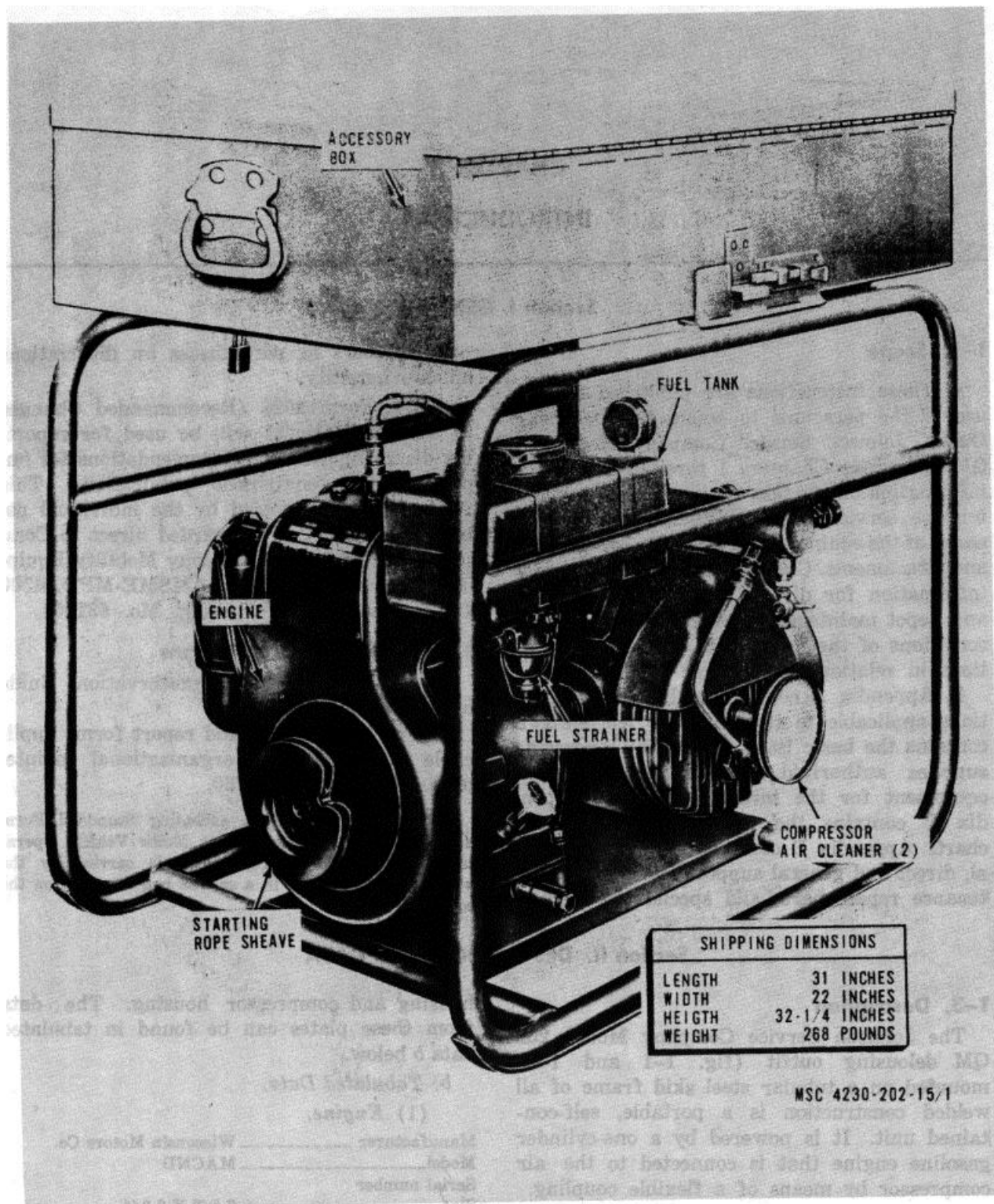


Figure 1-1. Delousing outfit, left front, three quarter view, with shipping dimensions.

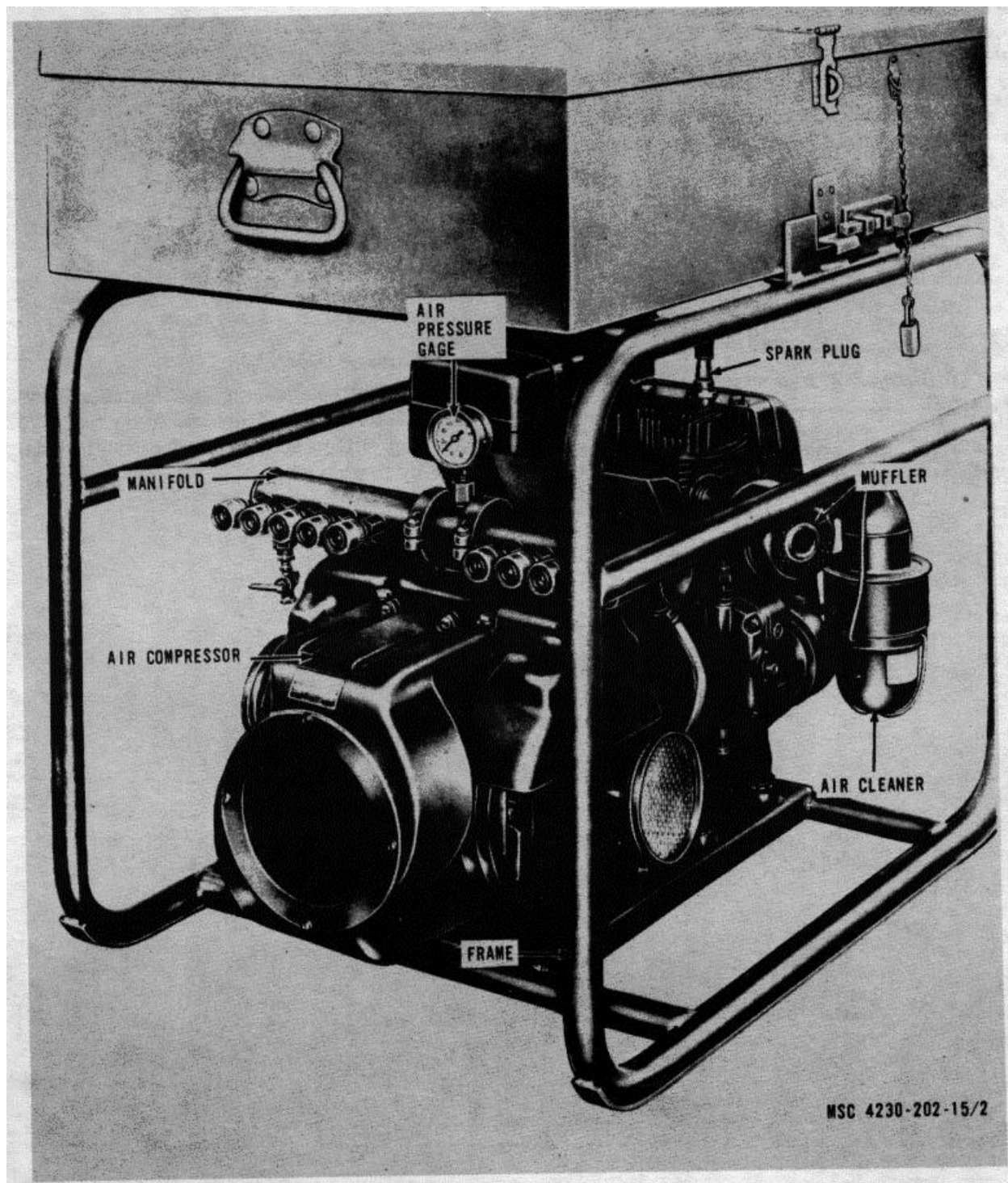


Figure 1-2. Delousing outfit, right rear, three quarter view

(2) *Compressor.*

Manufacturer..... Johnson Service Company
 Model..... 252 QM
 Serial Number

(3) *Magneto.*

Manufacturer..... Fairbanks Morse
 Model..... CW
 Type..... 13

(4) *Carburetor.*

Manufacturer..... Zenith

(5) *Air cleaner.*

Manufacturer..... United Air Cleaner
 Division NOVO
 Industrial Corp.
 Type..... TO

(6) *Dimensions and weight.*

Length..... 31 in. (inches)
 Width..... 22 in
 Height..... 32 1/4 in.
 Weight..... 268 lb (pound) (s)

(7) *Capacities.*

Air cleaner..... 5/32 qt (quart)
 Fuel tank..... 1 gal (gallon)
 Crankcase..... 1 qt.

(8) *Nut and bolt torque data.*

Compressor head screws 40-50 ft-lb (foot-pounds)
 Cylinder head screws.... 14-18 ft-lb
 Spark plug..... 25-30 ft-lb

(9) *Adjustment data.*

Governor control speed 2,200 rpm
 Magneto breaker..... 0.015 in.
 point separation.
 Spark plug gap..... 0.030 in.

1-5 Difference in Models

This manual covers only the Johnson Service Co. Model 252 QM delousing outfit. No known unit differences exist for the model covered by this manual.

CHAPTER 2 INSTALLATION AND OPERATION INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

2-1. Unloading Equipment

The total weight of the delousing outfit is 268 pounds. A hand truck, forklift, or man-power *may* be used to unload the crated delousing outfit.

2-2. Unpacking Equipment

a. *General.* For domestic shipment, the delousing outfit is shipped in a crate fastened to the skid base which is bolted to the skid frame of the unit.

b. *Unpacking.*

- (1) Remove the metal banding from the crate.
- (2) Remove the crate from the skid base.

Caution: Be careful not to damage the delousing unit while uncrating it.

(3) Check the equipment against the packing list and report all discrepancies to direct support maintenance.

2-3. Inspecting and Servicing Equipment

a. *Inspection.*

(1) Prepare the unit for inspection and Operation as outlined on DA Form 2258 attached on or near the operator's controls.

(2) Make a visual inspection of the entire unit for loose or missing parts or hardware and damage. Report all discrepancies to direct support maintenance.

b. *Servicing.*

(1) Perform the daily preventive maintenance services (para 3-7).

(2) Lubricate the unit in accordance with the current lubrication order.

(3) Refer to appendix B and fill the fuel tank with the proper grade of fuel.

Warning: When filling the fuel tank, always provide a metal-to-metal contact between the container and the fuel tank. This will prevent a spark from being generated as fuel flows over the metallic surface.

2-4. Installation of Separately Packed Components

The delousing outfit comes equipped with separately packed components consisting of face masks, air guns, hoses, and dust cans. Refer to figure 2-1 for installation instructions of the separately packed components.

2-5. Installation or Setting-up Instructions

a. The delousing outfit is a portable unit designed to operate satisfactorily on any level surface and block the tubular skid frame to complete the leveling.

b. Ample space must be provided on all sides of the delousing outfit to afford adequate ventilation and working area for starting and servicing the unit.

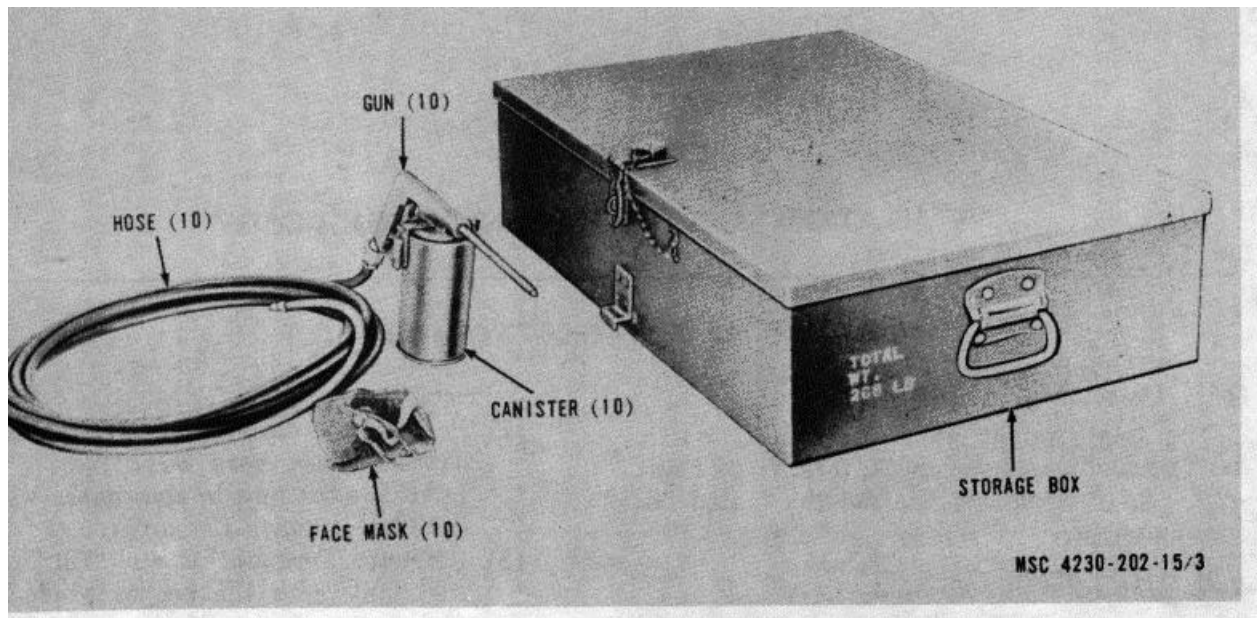


Figure 2-1. Installation of separately packed components

Section II. MOVEMENT TO A NEW WORKSITE

2-6. Dismantling for Movement

a. *General.* The delousing outfit is completely self-contained and can be moved short distances manually.

b. *Preparation for Movement.*

(1) Disconnect the spray guns and stow them in the accessory box provided for them.

(2) Disconnect the hoses and stow them in the accessory box provided for them.

(3) Position the accessory box on the tubular frame and secure it to the bracket. Securely fasten the lid of the accessory box.

2-7. Reinstallation After Movement

Refer to paragraph 2-5 for reinstallation instructions after movement to a new worksite.

Section III. CONTROLS AND INSTRUMENTS

2-8. General

This section describes, locates, illustrates, and furnishes the operator, crew, or organizational maintenance personnel sufficient information about the various controls and instruments for the proper operation of the delousing outfit.

2-9. Controls and Instruments

Refer to figure 2-2 for the purpose, normal reading, and location of all controls and instruments.

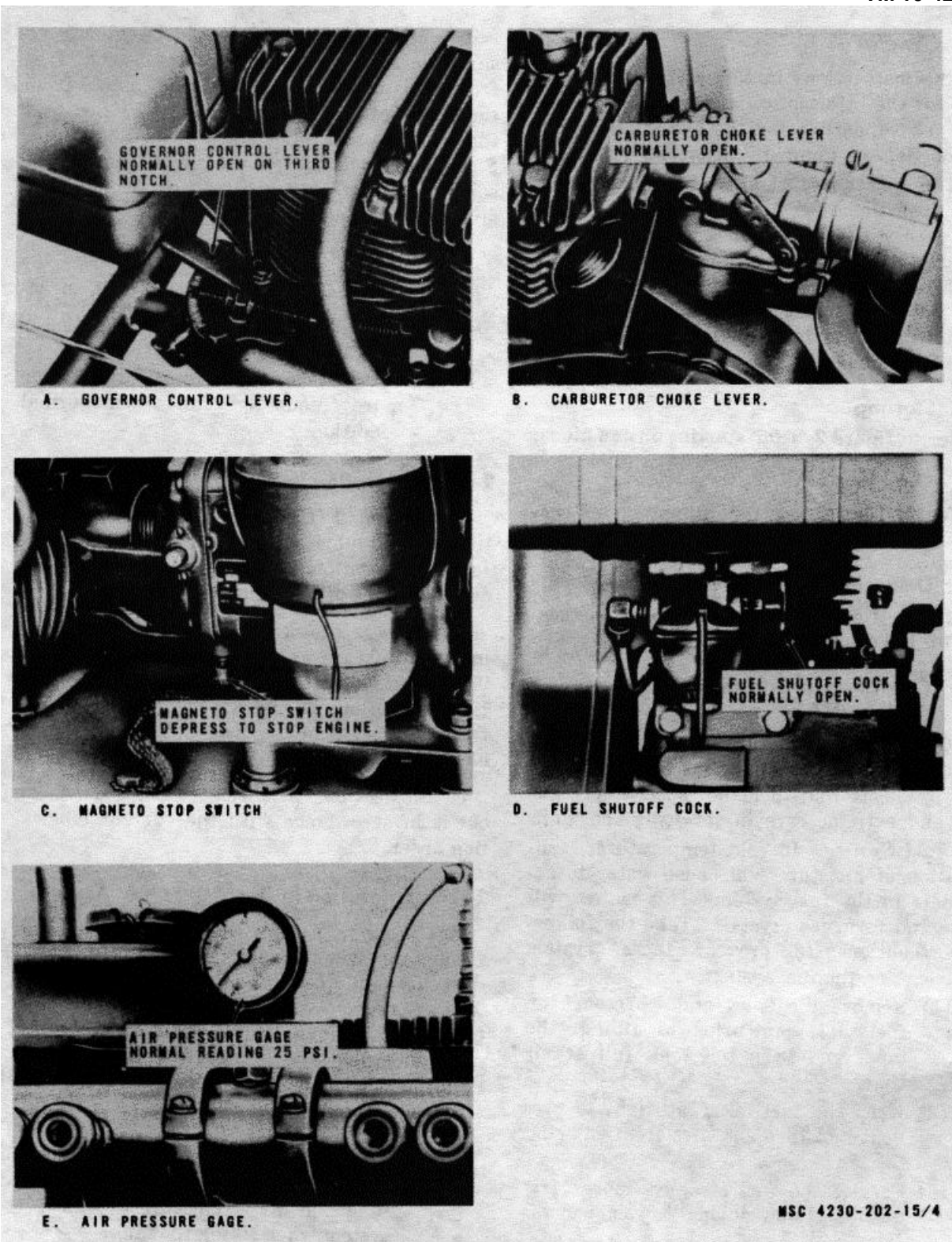


Figure 2-2. Controls and instruments

Section IV. OPERATION OF EQUIPMENT

2-10. General

a. The instructions in this section are published for the information and guidance of the personnel responsible for the operation of the Johnson Service Company delousing outfit.

b. The operator must know how to perform every operation of which the delousing outfit is capable. This section gives instructions on starting and stopping the delousing outfit and operating details of the unit. Since nearly every job presents a different problem, the operator may have to vary given procedures to fit the individual job.

2-11. Starting

Refer to figure 2-3 for starting instructions.

2-12. Stopping

Refer to figure 2-4 for stopping instructions.

2-13. Delousing Outfit Operation

Refer to figure 2-5 for operating instructions for the delousing outfit.

2-14. Operation in Extreme Cold (Below 0°F.)

a. *General.* Operation of the delousing outfit under conditions of extreme cold presents problems that demand special precautions and extreme care in servicing the unit.

b. *Fuel System.* In cold temperatures, condensation of moisture will cause water to accumulate in the fuel system. This water will freeze and form ice crystals. Take the following precautions to prevent these crystals from clogging the fuel system.

- (1) Remove the snow and ice from the fuel tank cap prior to filling the tank, and keep the tank full at all times.
- (2) Keep the fuel tank cap tight to prevent moisture and dirt from entering the tank.
- (3) Service the fuel strainer more frequently than during normal conditions.

c. *Ignition System.* In cold weather, be sure the spark plug is kept clean and free from moisture. Remove ice and snow from the spark plug, magneto, and cable. See that the ignition connections are clean and tight. Since the insulation on the cable tends to become brittle at low temperatures, avoid excessive handling and sharp bending.

d. *Lubrication.*

(1) Lubricate the delousing outfit in accordance with the current lubrication order.

(2) Service the carburetor air cleaner more frequently than under normal conditions.

2-15. Operation in Extreme Heat

a. *General.* Efficient cooling, adequate ventilation, and lubrication are of vital importance for the operation of the delousing outfit under conditions of extreme heat.

b. *Cooling.* Check the flywheel shroud, cylinder crankcase, air compressor fins, and blower scroll screen for insufficient ventilation of the engine and air compressor in extreme heat. Clean the fins and screen at regular intervals.

c. *Lubrication.* Lubricate the delousing outfit in accordance with the current lubrication order.

2-16. Operation in Dusty or Sandy Areas

a. *Cleaning.* Service the engine air cleaner frequently: when operating the unit under dusty or sandy conditions. Replace oil in bowl when it becomes dirty. Remove the two compressor air cleaners and blow out the dirt, dust and other debris or replace the felt disks as required. Keep the compressor blower scroll screen clean and free of clogging.

b. *Fuel System.*

(1) Provide adequate protection to keep sand and dirt from entering the fuel system when filling the tank.

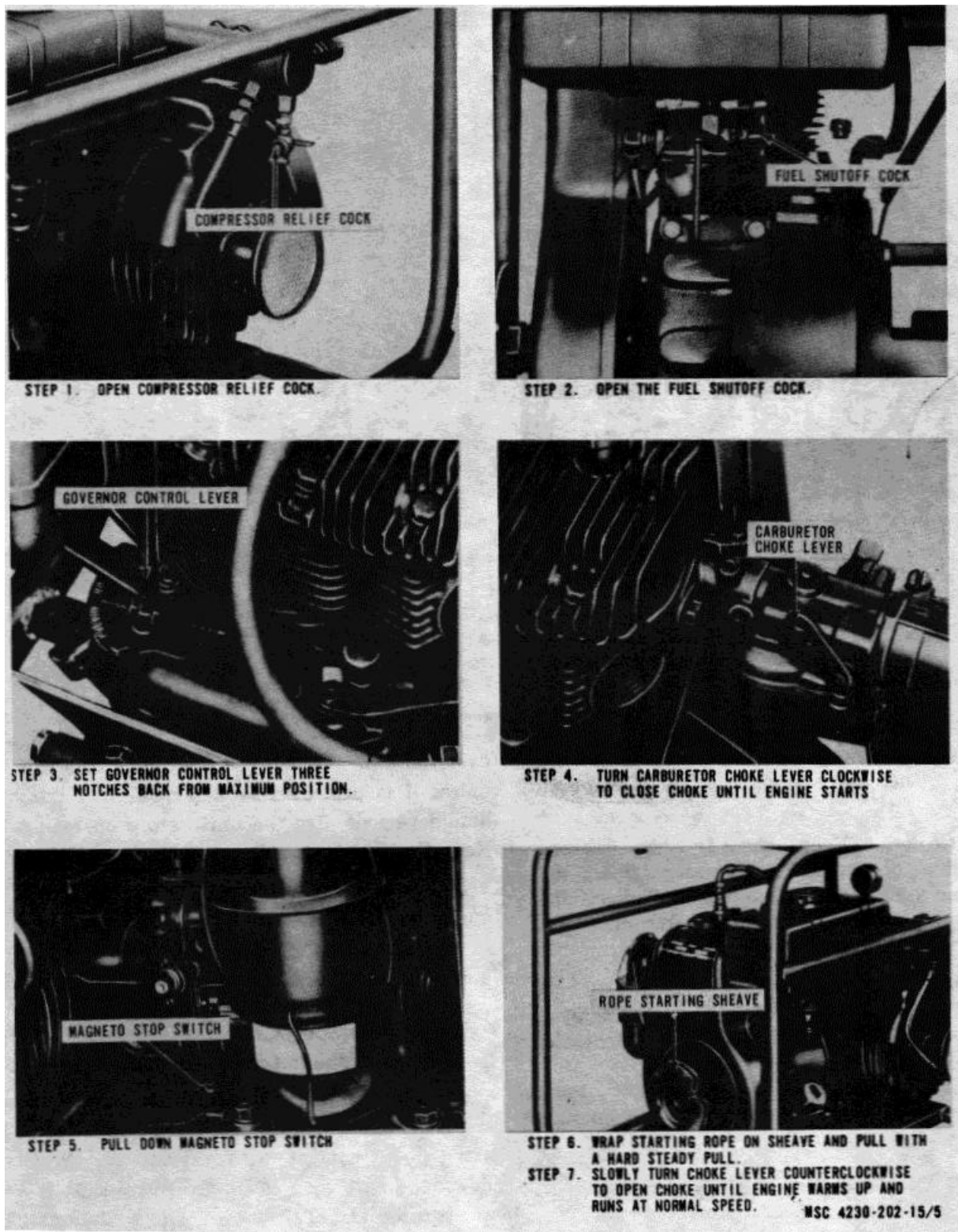


Figure 2-3. Starting instructions

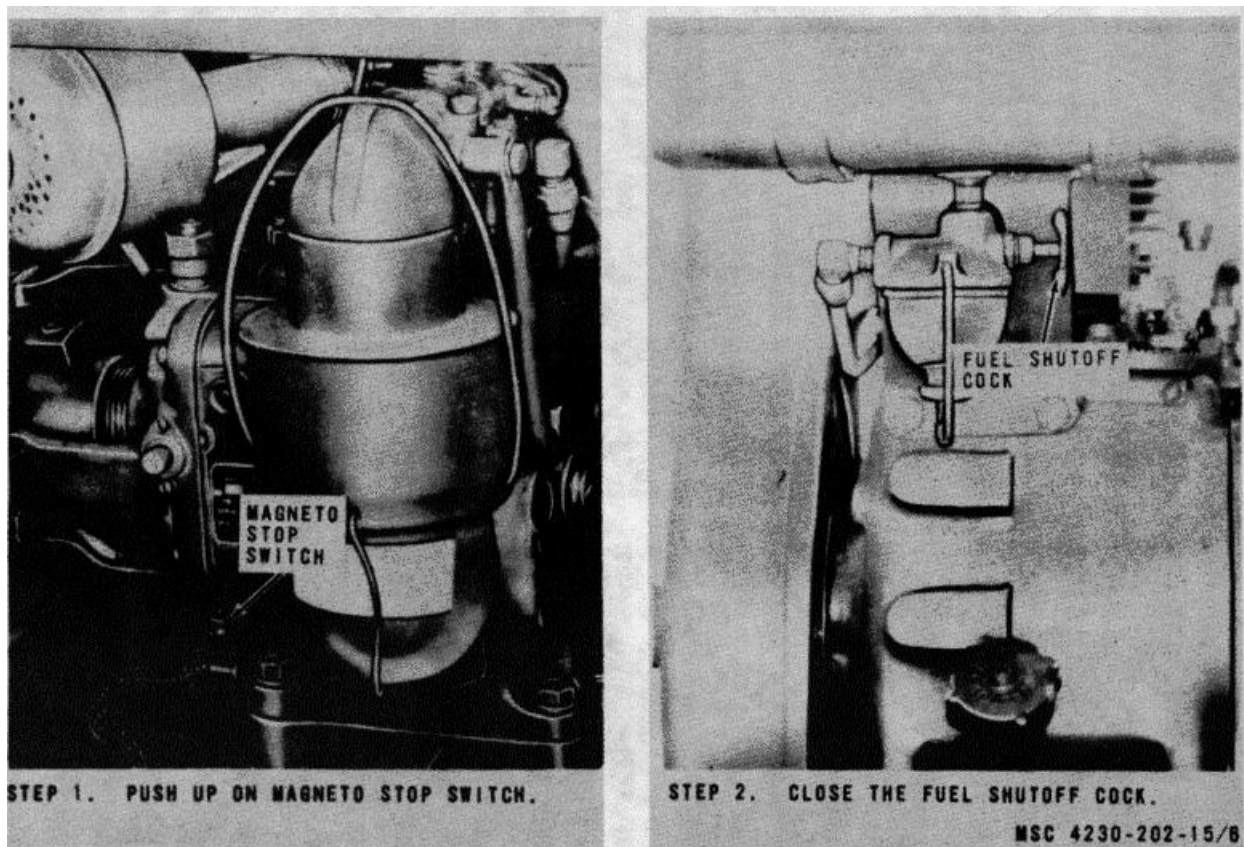


Figure 2-4. Stopping instructions

(2) Service the fuel strainer as often as necessary to keep it free of sand and dirt.

c. *Cooling.* Keep the flywheel shroud, cylinder crankcase, compressor fins, and blower scroll screen free from all dust, dirt, and other material that might prevent proper engine and air compressor cooling.

d. *Lubrication.*

(1) Lubricate the delousing outfit in accordance with the current lubrication order.

(2) Service the carburetor air cleaner more frequently than under normal conditions.

2-17. Operation Under Rainy or Humid Conditions

a. *General.* When the unit is not operating, place

a canvas or other waterproof covering over the unit. Do not use the unit in the rain unless it is protected by a tarpaulin. During humid periods, dry the unit before operating. Keep the fuel tank full to avoid condensation.

b. *Ignition System.* Spark plug, magneto, and cable often become unserviceable because of high humidity. Affected parts should be removed and dried. If this does not remedy the condition, they must be replaced.

2-18. Operation in Salt Water Areas

a. *General.* Salt water creates a strong corrosive action on metal. Care must be taken to avoid direct contact with salt water. Wash down the unit with clean, fresh water at frequent intervals. Take care not to contaminate the fuel system or damage the ignition system with the water.



Figure 2-5. Operation instructions

b. *Protection Against Corrosion.* Coat exposed metal surfaces with an approved rust-proofing material to keep moisture from causing rust. Remove any rust immediately and paint exposed surfaces.

c. *Lubrication.* Lubricate the unit in accordance with the current lubrication order.

2-19. Operation at High Altitudes

a. The air compressor air output in cubic feet per minute and pounds per square inch will gradually decrease as the operating altitude above sea level increases. For each 1,000 feet of altitude above sea level, there will be a reduction in horsepower of 3 percent.

b. Should the air compressor cfm decrease because of rarefied air in high altitudes, increase the engine speed by advancing the governor control linkage.

c. Service the two air compressor air cleaners as necessary (para 3-13.)

d. Open the needle valve slightly more than normal, and readjust to normal running position after engine is started. This process will facilitate easy engine starting.

e. Lubricate the delousing outfit in accordance with the current lubrication order.

Section V. OPERATION OF AUXILIARY MATERIEL USED IN CONJUNCTION WITH THE DELOUSING OUTFIT

2-20. Fire Extinguisher (Dry Chemical Type)

a. *Description.* The dry chemical type fire extinguisher is suitable for use on all types of fire and is effective in areas where ambient temperatures are -25°F. and above. If winterized (pressurized with nitrogen), the fire extinguisher may be used in temperatures below -25°F. The fire extinguisher is 2 1/2 pound, stored pressure, lever-operated extinguisher.

b. *Operation.* Remove the extinguisher from its location, lift the handle, press the lever, and direct the powder at the base of the flame using a side-to-side

sweeping motion.

2-21. Maintenance

Weigh the fire extinguisher every 6 months and replace the extinguisher if the weight is less than 4 1/2 pounds or its pressure is below 125 pounds. Refer to SB 5-111. The dry chemical fire extinguishers will be serviced at installation level through repair and utilities facilities, with the filling agent supplied by local procurement through troop supply channels.

CHAPTER 3
OPERATOR AND ORGANIZATIONAL MAINTENANCE
INSTRUCTIONS

**Section I. OPERATOR AND ORGANIZATIONAL MAINTENANCE
TOOLS AND EQUIPMENT**

3-1. Special Tools and Equipment

No special tools or equipment are required by the operator or organizational maintenance personnel for the maintenance of this delousing outfit.

3-2. Basic Issue Tools and Equipment

Tools and repair parts issued with or authorized for

the delousing outfit are listed in the basis issue items list, Appendix B of this manual.

3-3. Organizational Maintenance Repair Parts

Organizational -maintenance repair parts are listed and illustrated in Appendix D.

Section II. LUBRICATION

3-4. General Lubrication Information

a. This section contains a reproduction of the lubrication order and lubrication instructions which are supplemental to and not specifically covered in the lubrication order.

b. The lubrication order shown in figure 3-1 is an exact reproduction of the approved lubrication order for the delousing outfit. For current lubrication order, refer to DA Pam 310-4 (Military Publications).

3-5. Detailer Lubrication Information

a. *Care of Lubricants.* Keep all lubricants in closed containers and store in a clean, dry place away from heat. Allow no dirt, dust, or water to mix with lubricant at any time. Keep all lubrication equipment clean and ready for use.

b. *Points of Lubrication.* Follow the detailed

lubrication instructions given on the current lubrication order (fig. 3-1). Always apply lubricant specified on the current lubrication order.

c. *Cleaning.* Keep all external parts not requiring lubrication clean from lubricants. After every lubrication operation, remove any excess lubricants from the points of application and wipe away spilled lubricant.

d. *Operation After Lubrication.* Operate the unit for 5 minutes after lubrication to work the clean oil into bearing surfaces. Stop the unit, wait 5 minutes, and check the oil level. Add oil to bring the level up to the FULL mark.

e. *Engine Air Cleaner.* Refer to figure 3-2 and service the engine air cleaner.

**LUBRICATION
ORDER**

LO 10-4230-202-15

21 AUGUST 1964

**DELOUSING OUTFIT: POWER DRIVEN, GASOLINE ENGINE; WITH
10 DUSTING GUNS (JOHNSON SERVICE CO MODEL
252 QM) W/ WISCONSIN ENGINE
MODEL MACND**

REFERENCE: CO100-SL

Intervals are based on normal hours of operation. Reduce to compensate for abnormal operations and severe conditions. During inactive periods, sufficient lubrication must be performed for adequate preservation.

Clean parts with SOLVENT, dry-cleaning, or with OIL, fuel, Diesel. Dry before lubricating.

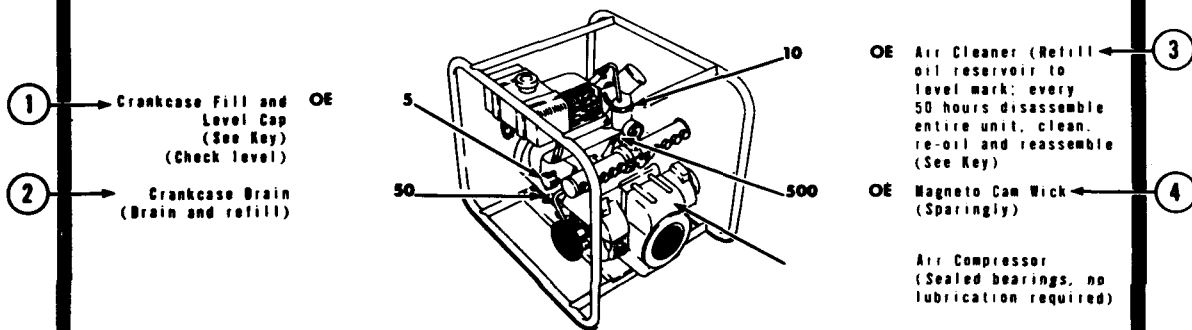
Drain crankcase when hot. Fill and check level.

Clean fittings before lubricating.

Relubricate after washing.

LUBRICANT @ INTERVAL

INTERVAL @ LUBRICANT



MSC 4230-202-15/8 ①

(1) Front

Figure 3-1. Lubrication order, LO 10-4230-202-15
3-2

- KEY -

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F	+40°F to -10°F	0°F to -65°F	
OE OIL, Engine, Heavy Duty					Intervals given are in hours of normal operation.
Crankcase	1 qt	OE 30 or 9250	OE 10 or 9110	OES	
Air Cleaner	5/32 qt				
Oil Can Points					
OES -OIL, Engine, Sub-zero					

NOTES:

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW -10°F. Remove lubricants prescribed in the key for temperatures above -10°F. Clean parts with SOLVENT, dry-cleaning. Relubricate with lubricants specified in the key for temperatures below -10°F.

2. OIL CAN POINTS. Every 100 hours lubricate control linkages, and all exposed adjusting threads with OE.

Copy of this Lubrication order will remain with the equipment at all times; instructions contained herein are mandatory.

BY ORDER OF THE SECRETARY OF THE ARMY:

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

OFFICIAL:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

MSC 4230 202 15 8:2

(2) Back

Figure 3-1 - Continued

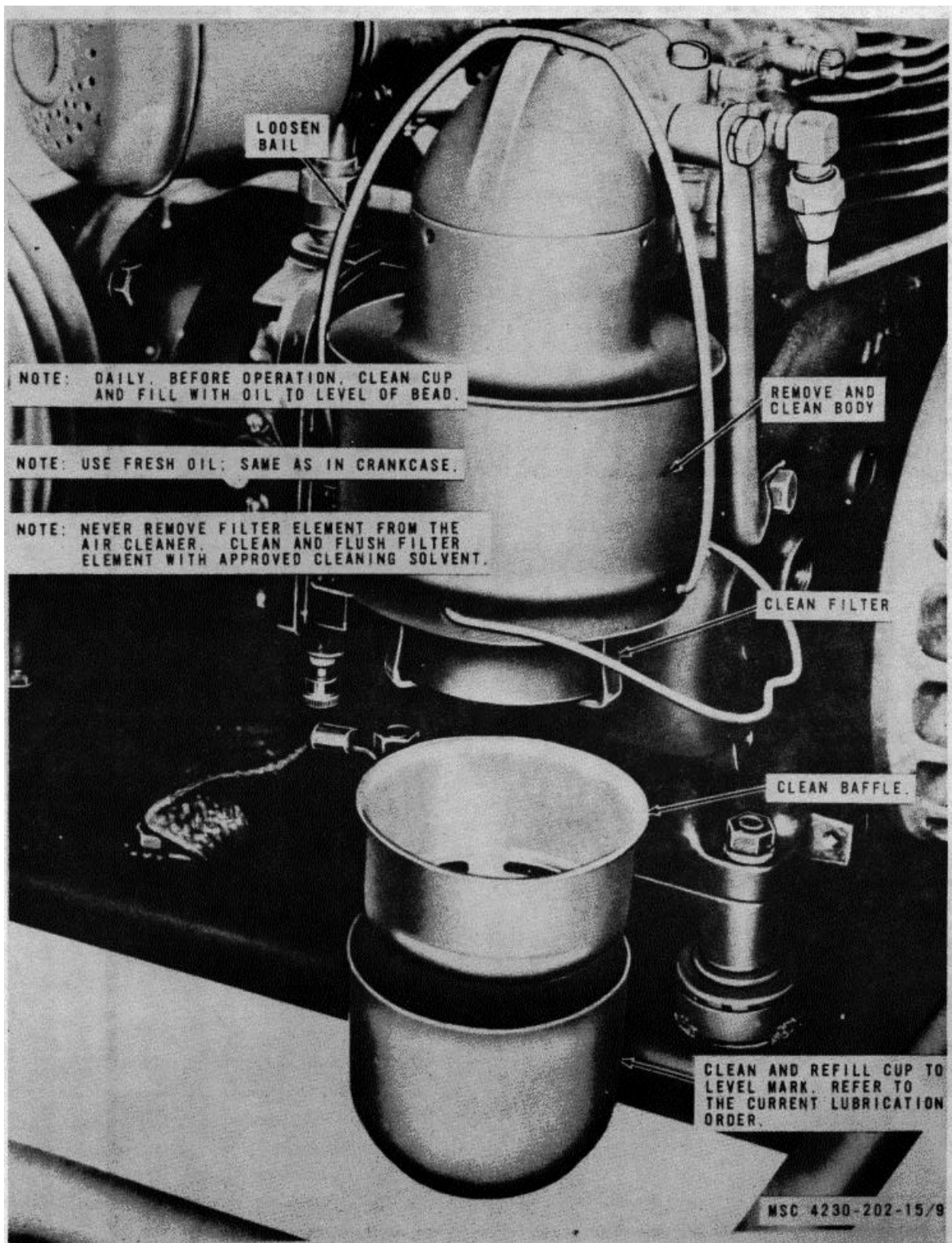


Figure 3-2. Air cleaner servicing

Section III. PREVENTIVE MAINTENANCE SERVICES

3-6. General

To insure that the delousing outfit is ready for operation at all times, it must be inspected systematically, so that defects may be discovered and corrected before they result in serious damage or failure. The necessary preventive maintenance services to be performed are listed and described in paragraphs 3-7 and 3-8. The item numbers indicate the sequence of minimum inspection requirements. Defects discovered during operation of the unit will be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noted during operation which would damage the equipment if operation were continued. All deficiencies and shortcomings will be recorded, together with the corrective action taken on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) at the earliest possible opportunity.

3-7. Daily Preventive Maintenance Services

This paragraph contains an illustrated tabulated listing of preventive maintenance services which must be performed by the operator. The item numbers are listed consecutively and indicate the sequence of minimum requirements. Refer to figure 3-3 for the daily preventive maintenance services.

3-8. Quarterly Preventive Maintenance Services

a. This paragraph contains an illustrated tabulated listing of preventive maintenance services which must be performed by organizational maintenance personnel at quarterly intervals. A quarterly interval is equal to 3 calendar months, or 250 hours of operation, whichever occurs first.

b. The item numbers are listed consecutively and indicate the sequence of minimum requirements. Refer to figure 3-4 for the quarterly preventive: maintenance services.

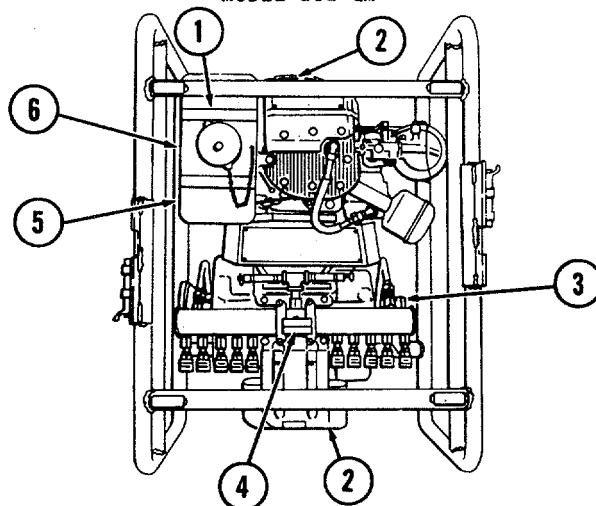
PREVENTIVE MAINTENANCE SERVICES

DAILY

TM 10-4230-202-15

DELOUSING OUTFIT

JOHNSON SERVICE CO.
MODEL 252 QM



LUBRICATE IN ACCORDANCE WITH CURRENT LUBRICATION ORDER

ITEM	PAR REF
1	FUEL TANK. Add fuel as required.
2	SCREEN. Clean dirty screen. (Weekly.)
3	AIR CLEANER. Clean dirty air cleaner. (Weekly.)
4	AIR PRESSURE GAGE. Inspect for damage and loose mounting. With unit operating, normal reading is 25 psi.
5	OIL FILL GAGE. Add oil as indicated by fill gage. Reference current L.O.
6	FUEL STRAINER. Tighten thumb nut if gasket is leaking. (Clean weekly.)
	NOTE 1. OPERATION. During operation observe for any unusual noise or vibration.

NSC 4230-202-15/10

Figure 3-3. Daily preventive maintenance services

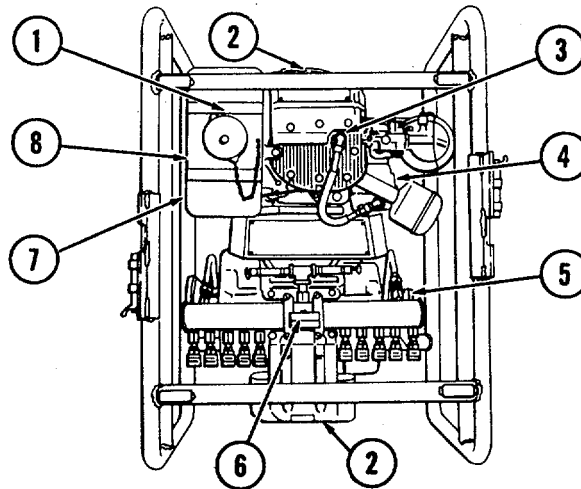
PREVENTIVE MAINTENANCE SERVICES

QUARTERLY

TM 10-4230-202-15

DELOUSING OUTFIT

JOHNSON SERVICE CO.
MODEL 252 QM



LUBRICATE IN ACCORDANCE WITH CURRENT LUBRICATION ORDER

ITEM	LUBRICATE IN ACCORDANCE WITH CURRENT LUBRICATION ORDER	PAR REF
1	FUEL TANK. Add fuel as required. Tighten loose mounting. Replace leaking fuel tank. Replace defective cap gasket.	3-39
2	SCREEN. Clean dirty screen. Replace defective screen.	3-12 3-15
3	SPARK PLUG. Replace sparkplug that has a cracked insulator or burned electrode. Clean and set sparkplug gap for 0.030 inch. Torque sparkplug to 25-30 foot-pounds. Replace lead which is frayed or broken. Clean and tighten loose connections.	3-45
4	MAGNETO. Replace pitted or burned magneto points. Proper point gap adjustment is 0.015 inch. (Check adjustment every 500 hours).	3-44
5	AIR CLEANER. Clean dirty air cleaner. Replace defective air cleaner.	3-13
6	AIR PRESSURE GAGE. Tighten loose mounting. Replace defective air pressure gage. With unit operating, normal reading is 25 psi.	3-63
7	OIL FILL GAGE. Add oil as indicated by fill gage. Reference current L.O.	
8	FUEL STRAINER. Tighten thumb nut if gasket is leaking. Clean dirty screen.	

MEC 4230-202-15/3-4 ①

Figure 3-4 (1). Quarterly preventive maintenance services

ITEM		PAR REF
	<p><u>NOTE 1. OPERATIONAL TEST.</u> During operation observe for any unusual noise or vibration.</p>	
	<p><u>NOTE 2. ADJUSTMENTS.</u> Make all necessary adjustments during operational test.</p>	

MSC 4230-202-15/11

Figure 3-4 (2) - Continued

Section IV. OPERATOR'S MAINTENANCE

3-9. General

This section contains information on the maintenance of the delousing outfit which is the responsibility of the operator. This includes the adjustment of the carburetor and the servicing of various components.

3-10. Carburetor Adjustment

Refer to figure 35 and adjust the carburetor.

3-11. Fuel Strainer Service

Refer to figure 3-6 and service the fuel strainer.

3-12. Compressor Blower Screen Service

Refer to figure 3-7 and service the compressor blower screen.

3-13. Compressor Air Cleaners Service

Refer to figure 3-8 and service the compressor air cleaners.

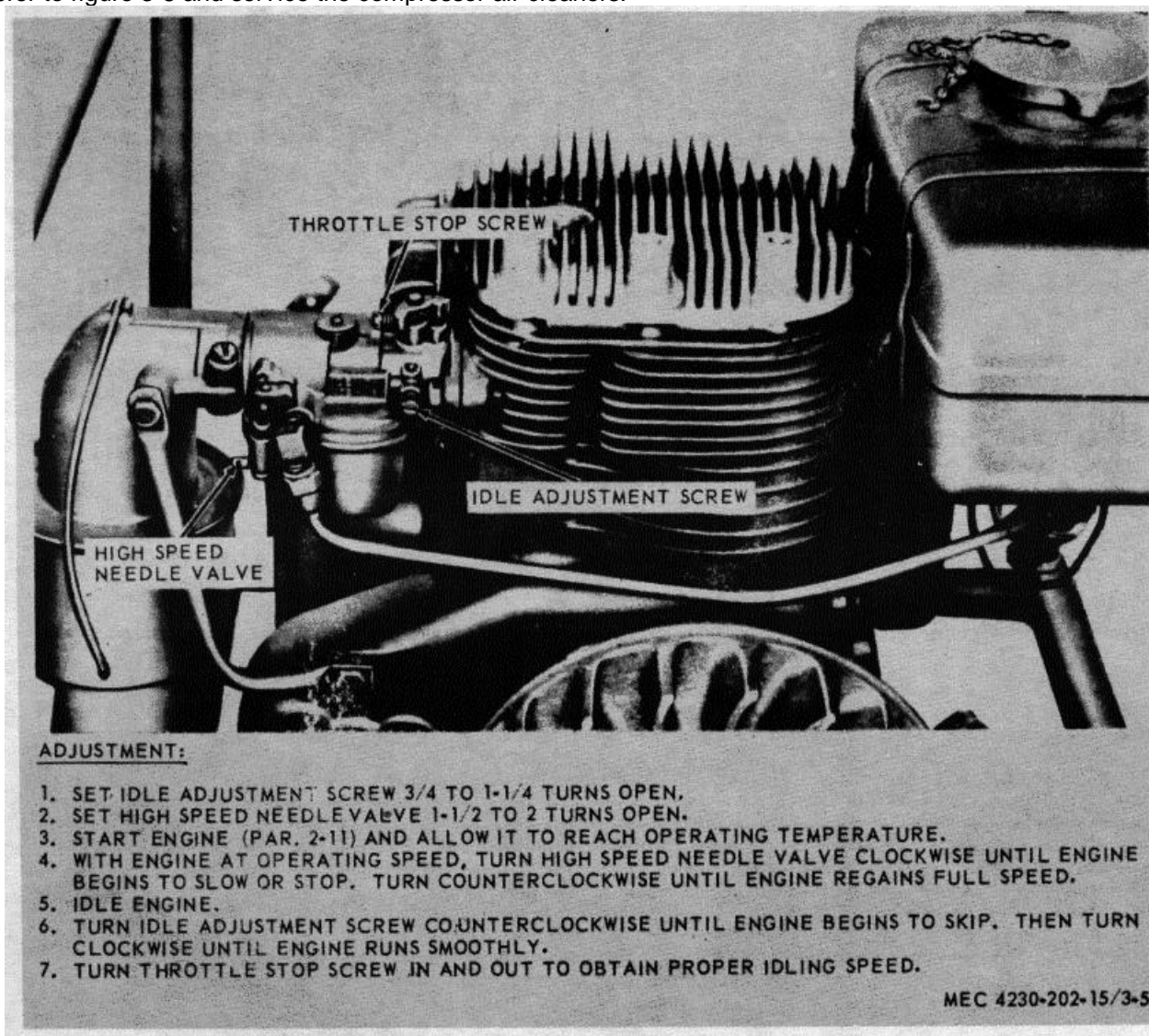


Figure 3-5. Carburetor adjustment

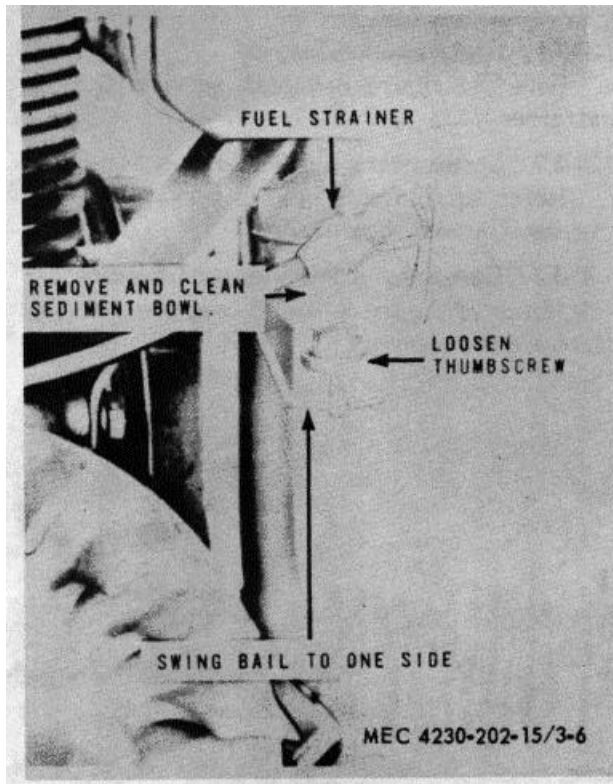


Figure 3-6. Fuel strainer service

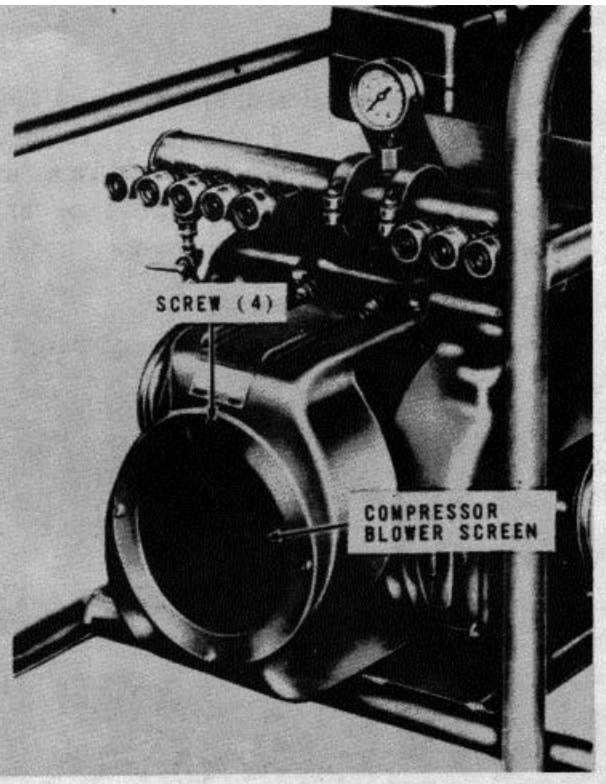


Figure 3-7. Compressor blower screen service

3-14. Crankcase Breather Service

Refer to figure 3-9, and service the crankcase breather.

3-15. Engine Shroud Screen Service

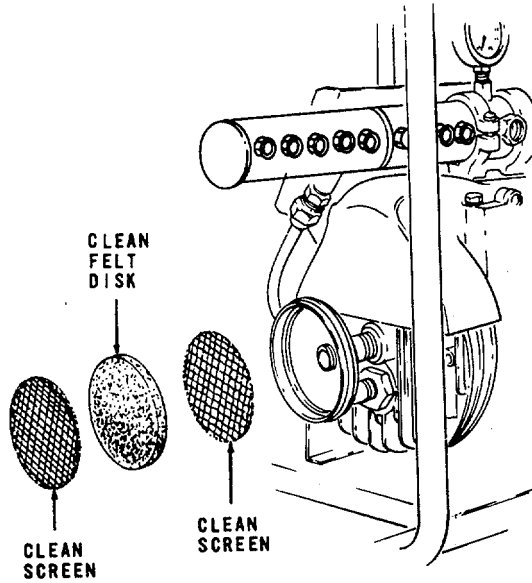
Refer to figure 3-10 and service the engine shroud screen.

SERVICE:

1. REMOVE SCREW (4) AND REMOVE BLOWER SCREEN.
2. CLEAN SCREEN WITH APPROVED CLEANING SOLVENT AND DRY THOROUGHLY WITH COMPRESSED AIR.
3. REPLACE BLOWER SCREEN AND SECURE WITH SCREW (4).

MSC 4230-202-15/14

NOTE: SERVICE OTHER COMPRESSOR AIR CLEANER IN A SIMILAR MANNER.



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Figure 3-8. Compressor air cleaner service

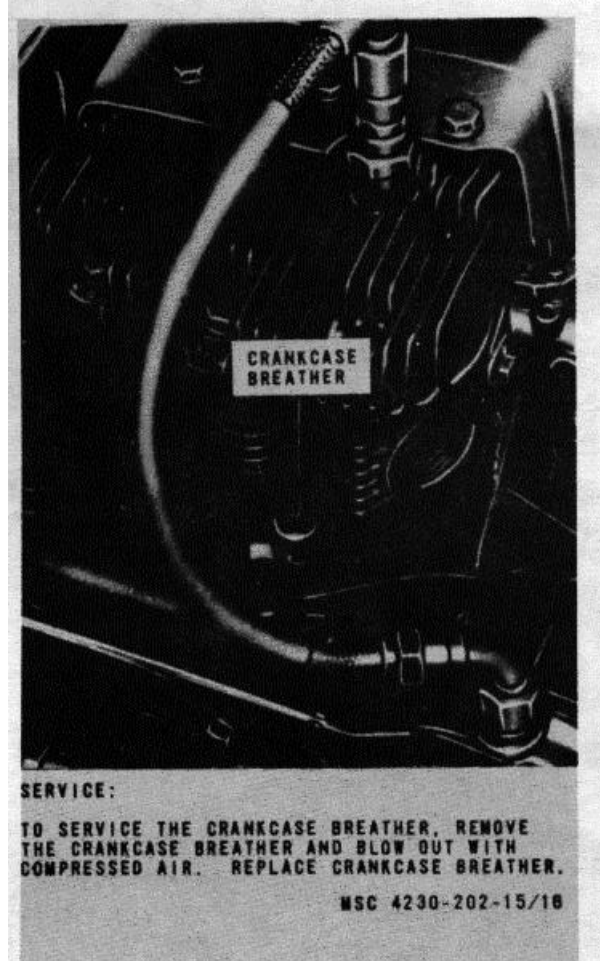


Figure 3-9. Crankcase breather service

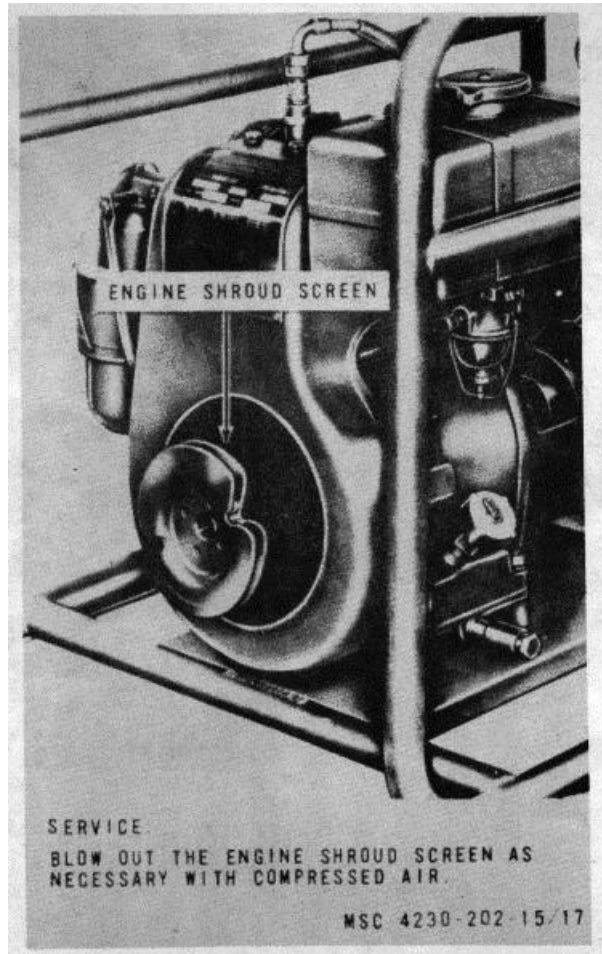


Figure 3-10. Engine shroud screen service

Section V. TROUBLESHOOTING

3-16. General

This section contains information useful in diagnosing and correcting unsatisfactory operation or failure of the delousing outfit and its components. Each trouble symptom stated is followed by a list of probable causes of the trouble. The possible remedy recommended is described opposite the probable cause. Any trouble beyond the scope of organizational maintenance shall be reported to direct and general support maintenance.

3-17. Engine Hard to Start or Fails to Start

Probable cause	Possible remedy
Fuel tank empty	Service fuel tank. Refer to Appendix B for proper grade of fuel.

Probable cause	Possible remedy
Fuel shutoff cock closed.....	Open the fuel shutoff cock (para. 2-11).
Spark plug defective	Clean, adjust, or replace spark plug (para. 3-45).
Carburetor adjustment incorrect..	Adjust carburetor (para. 3-10).
Magneto defective or improperly adjusted.	Clean or adjust magneto breaker points or replace magneto (para. 3-44).

3-18. Engine Misses or Runs Erratically

Probable cause	Possible remedy
Spark plug gap incorrect	Clean and reset gap (para. 3-45).
Spark plug cable loose or worn.	Replace spark plug cable (para- 3-45).
Magneto breaker points defective or improperly adjusted	Clean or adjust points or replace magneto (para. 3-44).

Probable cause	Possible remedy
Governor spring in wrong hole	Place governor spring in first hole (para.3-42).
Governor rod improperly adjusted.	Adjust governor rod (para 3-42).

3-19. Engine Stops Suddenly

Probable cause	Possible remedy
Fuel tank empty	Service fuel tank.
Fuel tank cap air vent hole clogged.	Clean vent hole
Fuel strainer clogged.....	Service the fuel strainer (para.3-11).
Carburetor defective	Replace carburetor (para. 3-41).
Magneto defective	Replace magneto (para. 3-44).

3-20. Engine Overheats

Probable cause	Possible remedy
Crankcase oil level low.....	Fill crankcase. Refer to current lubrication order.
Flywheel shroud defective...	Replace shroud (para. 3-35).
Cylinder cooling fins dirty.	Clean fins.

3-21. Engine Noisy

Probable cause	Possible remedy
Crankcase oil level low.....	Fill crankcase. Refer to current lubrication order.
Carbon deposit in cylinder head.	Clean head (para.3-49).

3-22. Engine Backfires Through Carburetor

Probable cause	Possible remedy
Engine cold.....	Run engine at low speed until warm.
Magneto breaker points defective or improperly adjusted.	Adjust points or replace magneto (para. 3-44).

3-23. Compressor Noisy

Probable cause	Possible remedy
Mounting bolts loose or missing.	Tighten loose or replace missing bolts.

3-24. Compressor Builds up Pressure Slowly

Probable cause	Possible remedy
Compressor air cleaners clogged.	Clean air cleaners (para. 3-13).
Manifold tubing and connections loose.	Tighten tubing and connections (para.3-54).
Compressor inlet and outlet valves defective.	Replace valves (para. 3-60 and 3-61).
Diaphragms defective	Replace diaphragms (para.3-62).

3-25. Compressor Overheats

Probable cause	Possible remedy
Blower screen clogged	Clean screen (para. 3-12).
Blower wheel defective	Replace wheel (para. 3-57).

3-26. Inlet Valve or Outlet Valve Assembly and Diaphragm Noisy

Probable cause	Possible remedy
Inlet or outlet valve defective or broken.	Replace valves (para. 3-60 and 3-61).
Diaphragm retaining plate screws loose	Tighten or replace screws (para. 3-2).

Section VI. FIELD EXPEDIENT REPAIRS

3-27. General

Operational and organizational troubles may occur while the delousing outfit is operating in the field where supplies and repair parts are not available and normal corrective action cannot be performed. When this condition exists, the following expedient remedy may be used during emergencies, upon the decision of the unit commander. Equipment so repaired must be removed from operation as soon as possible and properly repaired before being placed in operation again.

3-28. Engine Hard to Start or Fails to Start

Trouble	Expedient remedy
Air cleaner clogged	Remove the air cleaner and operate the unit without the air cleaner (paras 3-40).

3-29. Fuel Loss

Trouble	Expedient remedy
Fuel line cracked or leaking.	Wrap the cracked line with plastic tape (para. 3-38) and operate the unit until the line can be replaced.

Section VII. RADIO INTERFERENCE SUPPRESSION

3-30. General Methods Used to Attain Proper Suppression

Essentially suppression is attained, by providing a low-resistance path to ground for stray current. The methods used to attain suppression include shielding the ignition and high frequency wires, grounding the frame with bonding straps, and using capacitors and -resistors where necessary. For general information on radio interference suppression, refer to TM 11-483.

3-31. Interference Suppression Components, Location and Replacement

a. Figure 3-11 locates and provides instructions for removal and installation of interference suppression components.

b. Always replace suppression components with identical parts.

3-32. Testing of Radio Interference Suppression Components

Test the capacitors for leaks and shorts on a capacitor tester; replace defective capacitors. If test equipment is not available, and interference is indicated, isolate the cause of interference by the trail-and-error method of replacing each capacitor in turn until the cause of interference is located and eliminated.

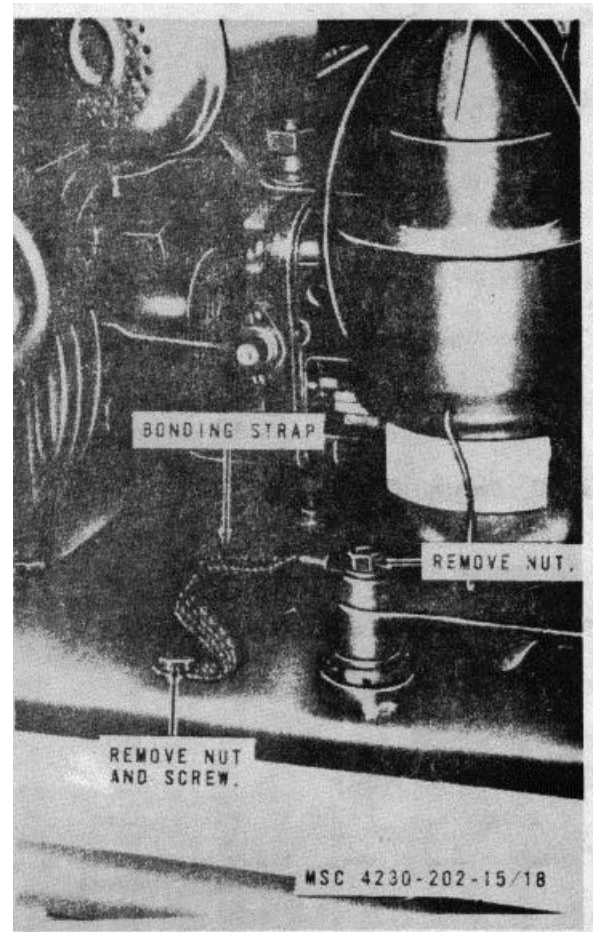


Figure 3-11. Interference suppression components, location, removal and installation.

Section VIII. EXHAUST MUFFLER AND ENGINE COOLING SYSTEM

3-33. General

A combination fan and flywheel forces a flow of air through the flywheel shroud to circulate around the cylinder and cylinder head. Engine baffle plates attached to the flywheel shroud are provided to direct the flow of air. The exhaust muffler is mounted on the cylinder crankcase.

3-34. Exhaust Muffler and Deflector

Refer to figure 3-12 and remove and install the exhaust muffler.

3-35. Flywheel Shroud

a. Removal.

- (1) Remove the starting sheave (para.3-47).
- (2) Refer to figure 3-13 and remove the flywheel shroud.

b. Installation.

- (1) Refer to figure 3-13 and install the flywheel shroud.
- (2) Install the starting sheave (para.3-47).

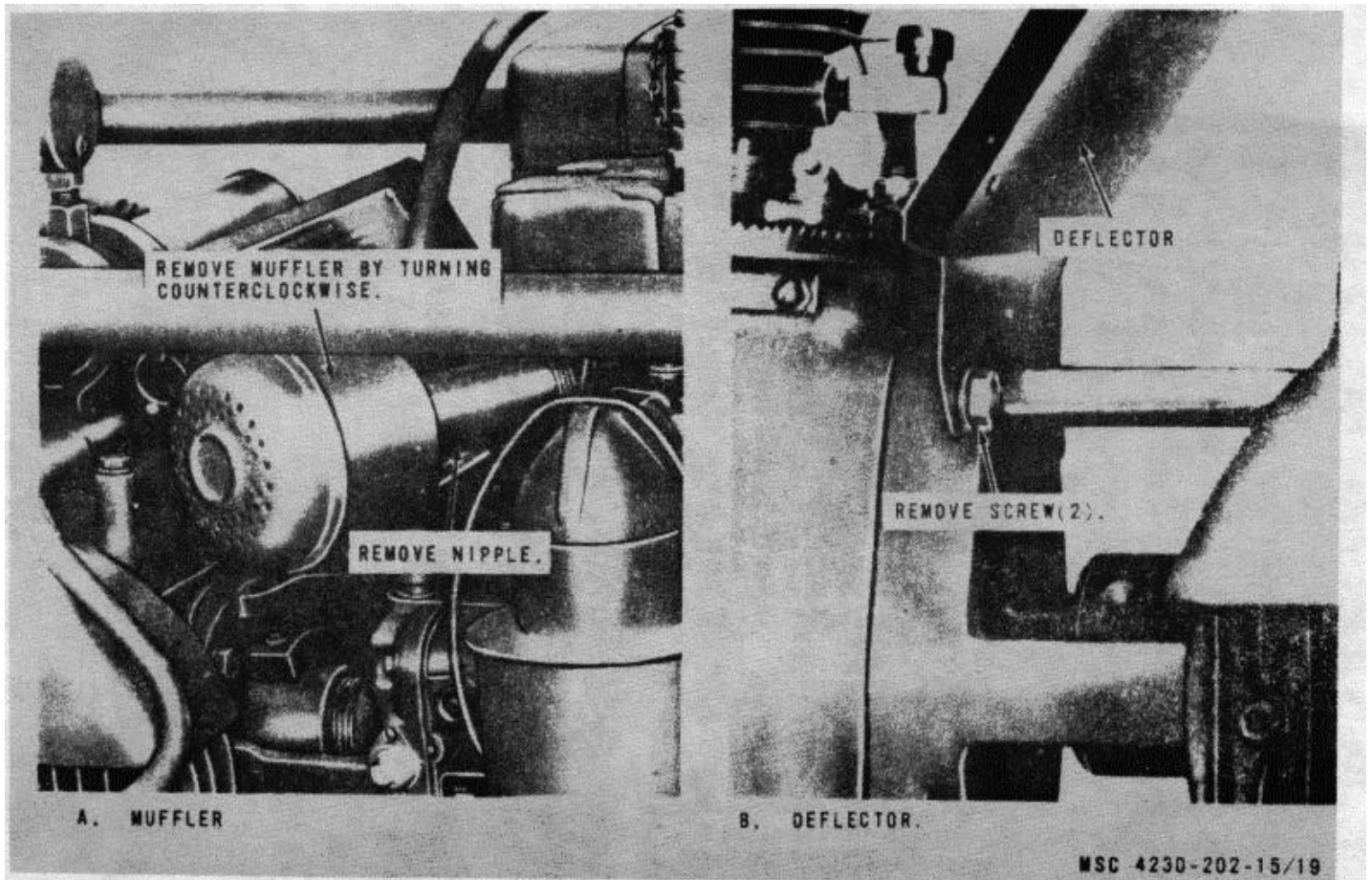


Figure 3-12. Exhaust muffler and deflector, removal and installation

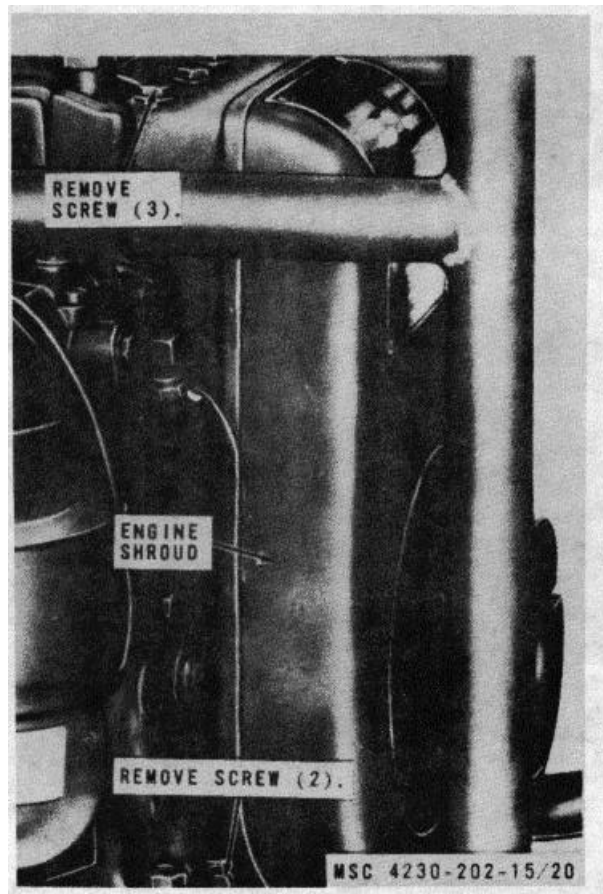


Figure 3-13. Flywheel shroud, removal and installation

Section IX. FUEL SYSTEM

3-36. General

The engine fuel system consists of a fuel tank, a combination shutoff valve and fuel strainer, a fuel line from the strainer to the float-type carburetor, governor control assembly and linkage, and an air cleaner. The fuel system is gravity-feed type requiring no fuel pump. Fuel flows from the fuel tank to the strainer which removes solids and water from the fuel. Collecting this foreign matter in a removable sediment bowl. From the strainer, fuel passes into the carburetor. The oil-bath type air cleaner removes dust and grit from the air and passes clean air into the carburetor, where it is mixed with the fuel for proper combustion.

3-37. Fuel Tank Cap and Strainer

Refer to figure 3-14 and remove and install the fuel tank cap and strainer.

3-38. Fuel Strainer, Line, and Relief Valve

a. *Removal.* Refer to figure 3-15 and remove and install the fuel strainer, line, and relief valve.

b. *Field Expedient Repair.* Wrap the cracked line with plastic tape, and operate the unit until the line can be replaced.

3-39. Fuel Tank, Straps, and Bracket

a. *Removal.*

(1) Remove the fuel strainer and line (para.3-38).

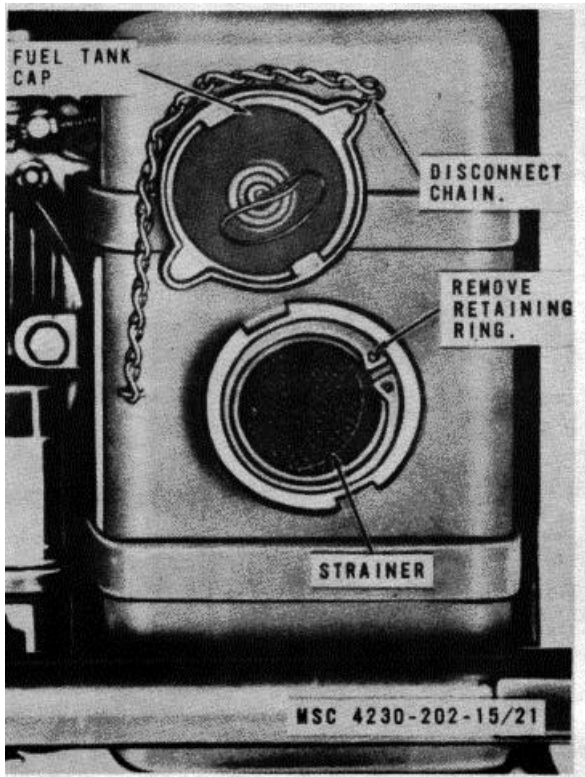


Figure 3-14. Fuel tank cap and strainer, removal and installation

- (2) Remove the fuel tank cap and strainer (para.3-37).
- (3) Refer to figure 3-16 and remove the fuel tank, straps, and bracket.

b. Installation.

- (1) Refer to figure 3-16 and install the fuel tank, straps, and bracket.
- (2) Install the fuel tank cap and strainer (para.3-37).
- (3) Install the fuel strainer and line (para.3-38).

3-40. Air Cleaner and Bracket Support

a. Removal and Installation. Refer to figure 3-17 and remove and install the air cleaner and bracket support

b. Field Expedient Repair. Remove the air cleaner and operate the unit without the air cleaner.

3-41. Carburetor

a. Removal.

- (1) Remove the air cleaner and bracket support (para.3-40).
- (2) Refer to figure 3-18 and remove the carburetor.

b. Installation.

- (1) Refer to figure 3-18 and install the carburetor.
- (2) Install the air cleaner and bracket support (para.3-40).

c. Adjustment. Refer to figure 3-18 and adjust the carburetor.

3-42. Governor Control Assembly and Linkage

a. Removal.

- (1) Remove the exhaust muffler (para.3-34).
- (2) Refer to figure 3-19 and remove the governor control assembly and linkage.

b. Disassembly. Refer to figure 3-20 and disassemble the governor control assembly and linkage.

c. Reassembly. Refer to figure 3-20 and reassemble the governor control assembly and linkage.

d. Installation.

- (1) Refer to figure 3-19 and install the governor control assembly and linkage.
- (2) Install the exhaust muffler (para.3-34).

e. Adjustment. Refer to figure 3-19 and adjust the governor control assembly and linkage.

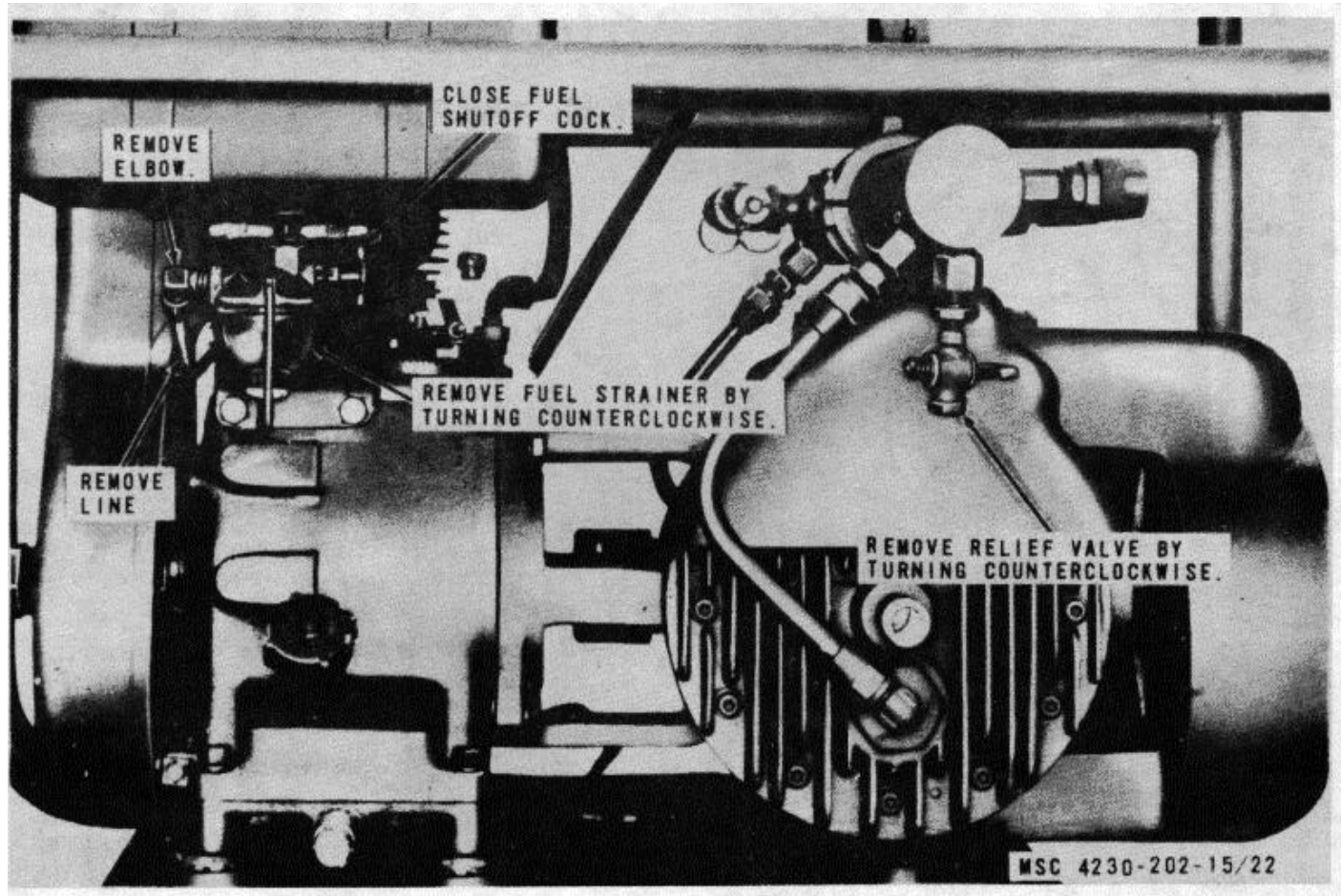


Figure 3-15. Fuel strainer, line, and relief valve, removal and installation

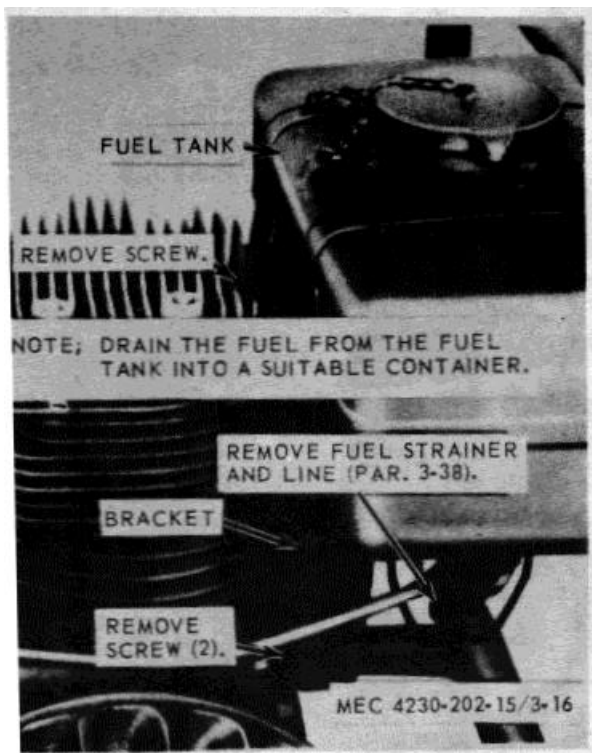


Figure 3-16. Fuel tank, straps, and bracket, removal and installation

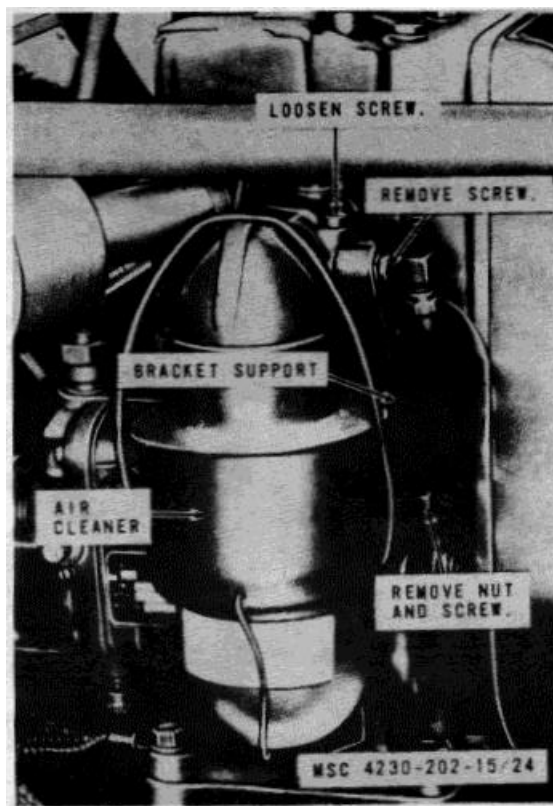


Figure 3-17. Air cleaner and bracket support, removal and installation

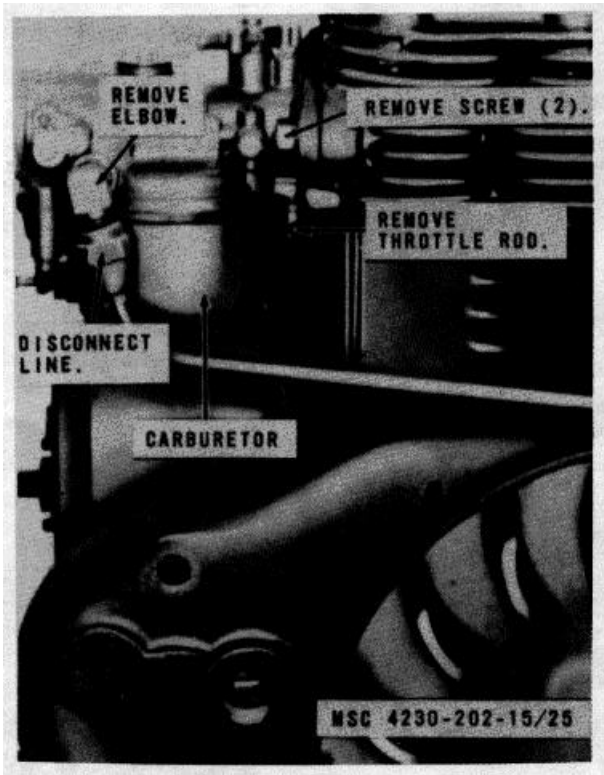


Figure 3-18. Carburetor, removal and installation

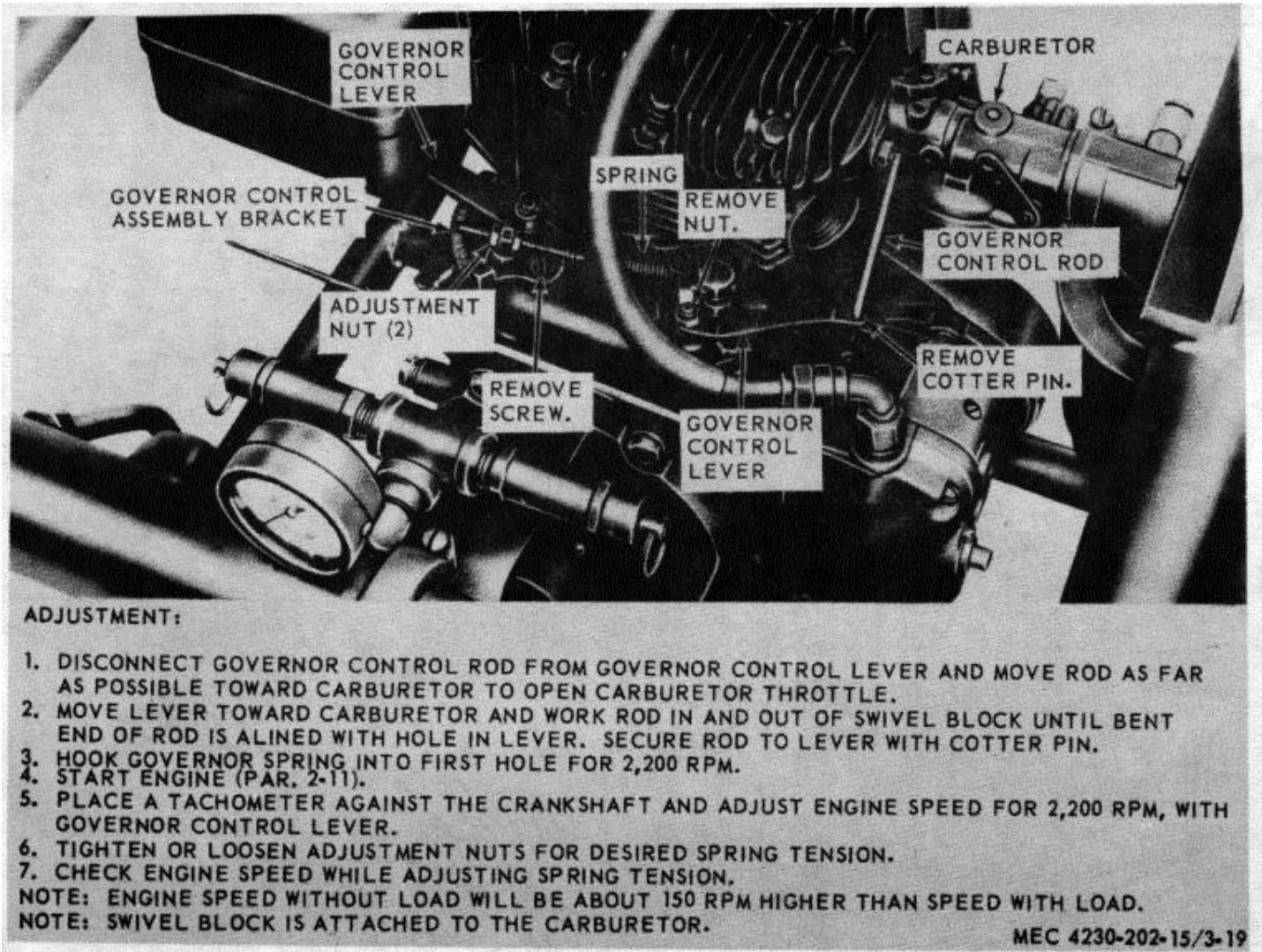
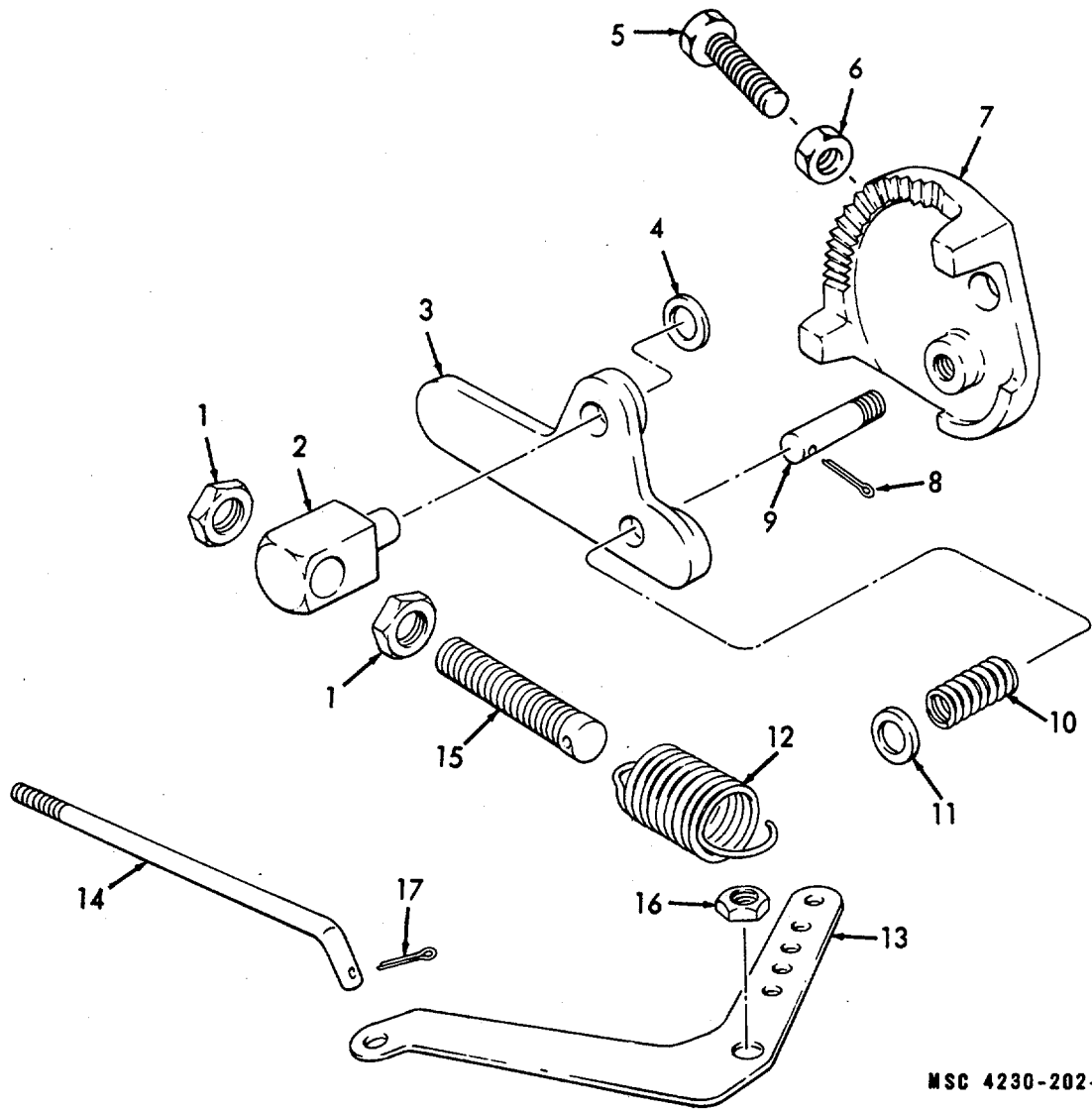


Figure 3-19. Governor control assembly and linkage, removal and installation, and governor linkage adjustment



MSC 4230-202-15/27

- | | |
|-----------------------------------------------|-----------------------------------------------|
| 1 Nut, hex, No. 10-32 (2) | 10 Spring |
| 2 Adjusting screw block | 11 Washer, flat, 1/4 in. x 1/2 in. x 1/16 in. |
| 3 Governor control lever | 12 Spring |
| 4 Washer, flat, 5/32 in. x 3/8 in. x 1/32 in. | 13 Governor control lever |
| 5 Screw, machine, No. 8-32 x 5/8 in. | 14 Governor control rod |
| 6 Nut, hex, No. 8-32 | 15 Governor spring adjusting pin |
| 7 Governor control bracket | 16 Nut, hex, 1/4-28 |
| 8 Pin, cotter, 1/16 in. x 1/2 in. | 17 Pin, cotter, 3/64 in x 1/2 in. |
| 9 Lever support pin | |

Figure 3-20. Governor control assembly and linkage, disassembly and reassembly

Section X. IGNITION SYSTEM**3-43. General**

The ignition system consists of a high tension magneto, a top switch, spark plug, and cable. The magneto, driven off the camshaft gear, is fitted with an impulse coupling that provides a powerful spark for easy starting and retards the timing of the spark to eliminate danger of kickback.

3-44. Magneto and Valve Inspection Plate

a. Magneto Spark Ignition Testing. Refer to figure 3-21 and test the magneto ignition spark.

b. Removal.

- (1) Remove the flywheel shroud (para. 3-35).
- (2) Refer to figure 3-22 and remove the magneto and valve inspection plate.

c. Magneto Timing Gear Removal. Refer to figure 3-23 and remove the magneto timing gear.

d. Breaker Point Adjustment. Refer to figure 3-24 and adjust the breaker points.

e. Timing. Refer to figure 3-25 and time the magneto.

f. Installation.

- (1) Refer to figure 3-22 and install the magneto.
- (2) Install the flywheel shroud (para. 3-35).

3-45. Spark Plug and Cable

a. Removal. Refer to figure 3-26 and install the spark plug and cable.

b. Gap Adjustment. Adjust the spark plug gap to 0.030 inch.

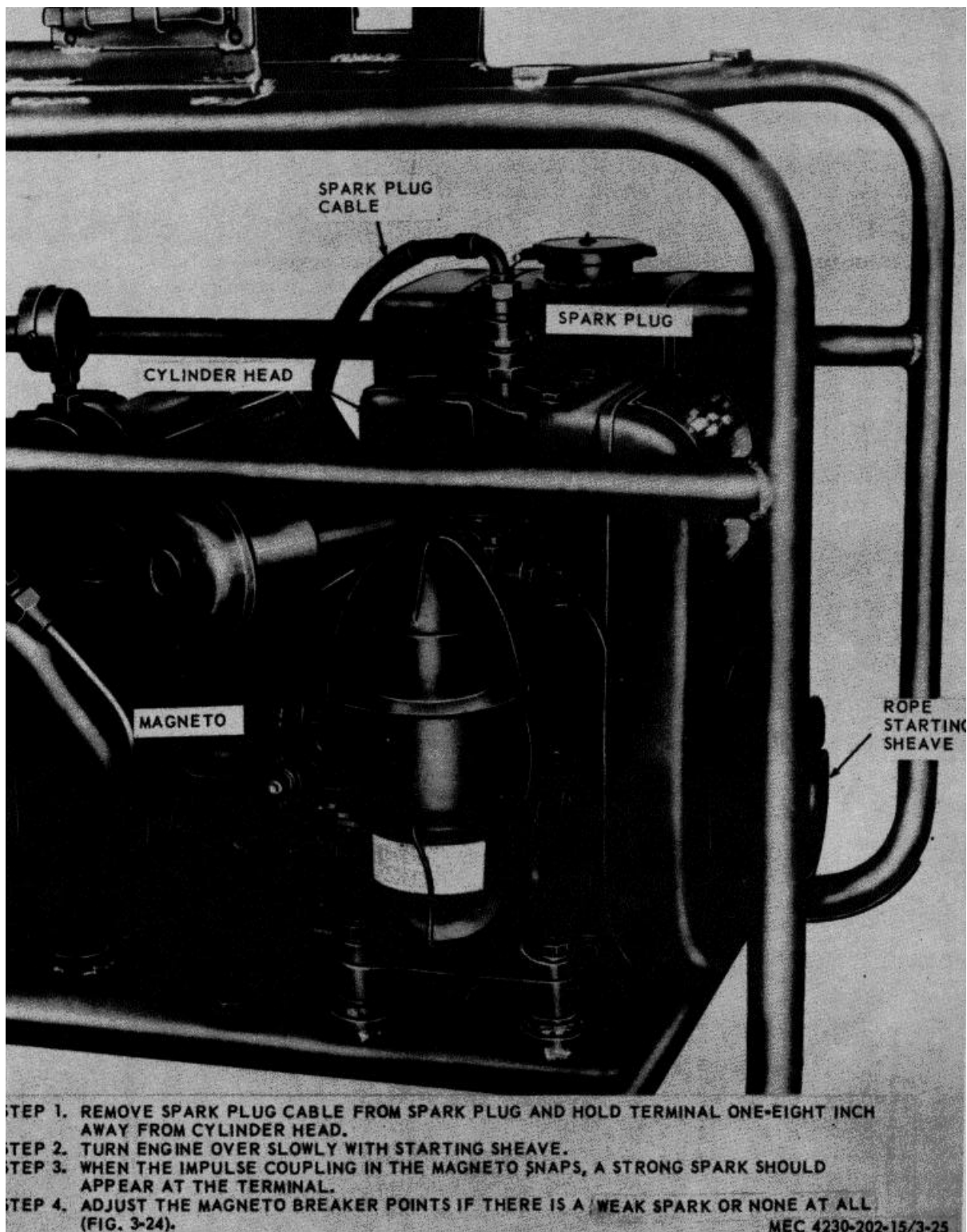


Figure 3-21. Testing magneto ignition spark

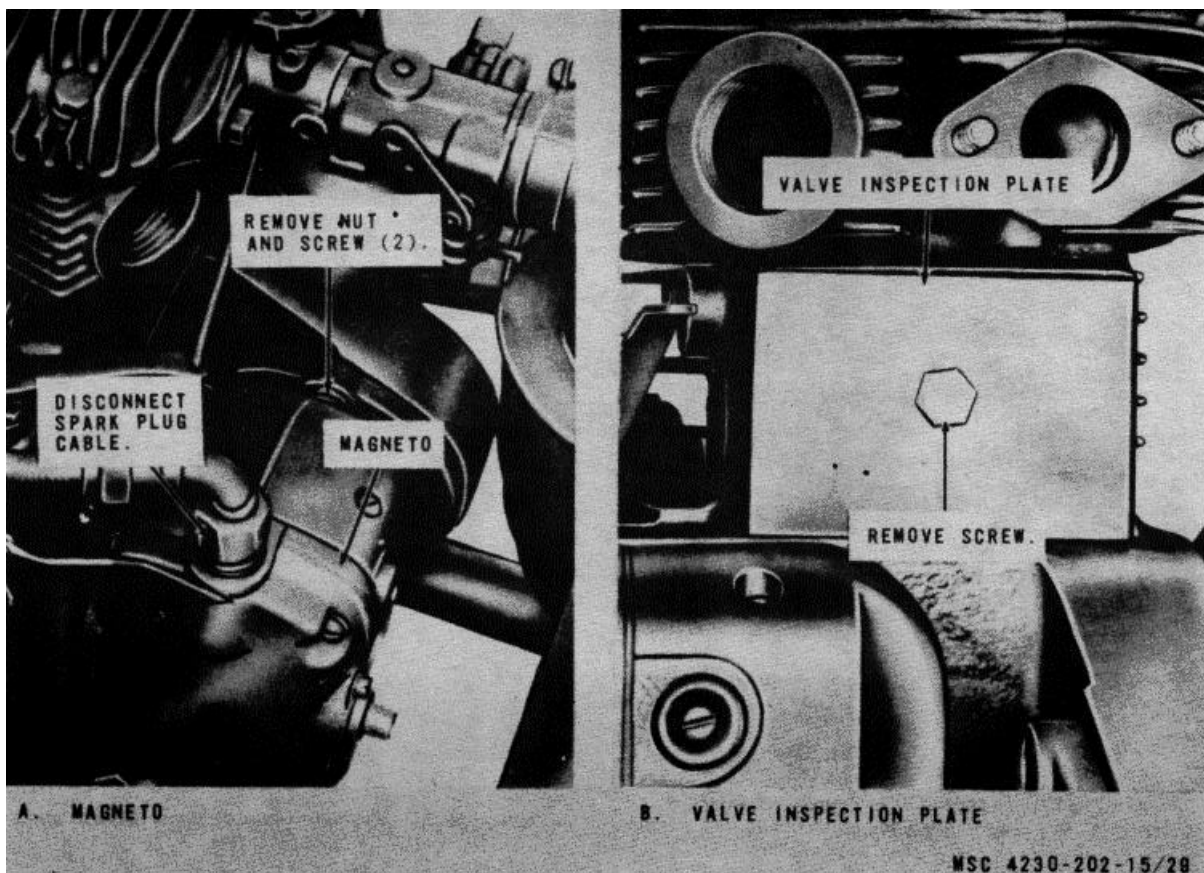


Figure 3-22. Magneto and valve inspection plate, removal and installation

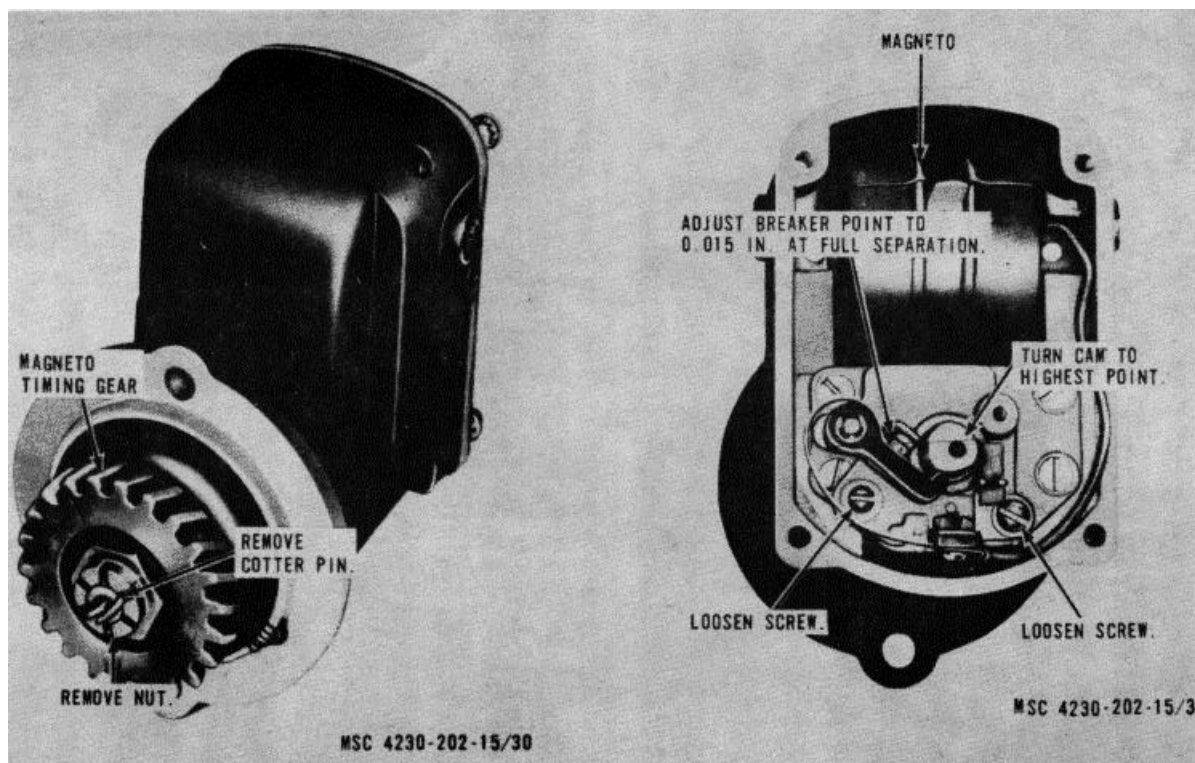


Figure 3-23. Magneto timing gear, removal and installation

Figure 3-24. Magneto breaker point adjustment

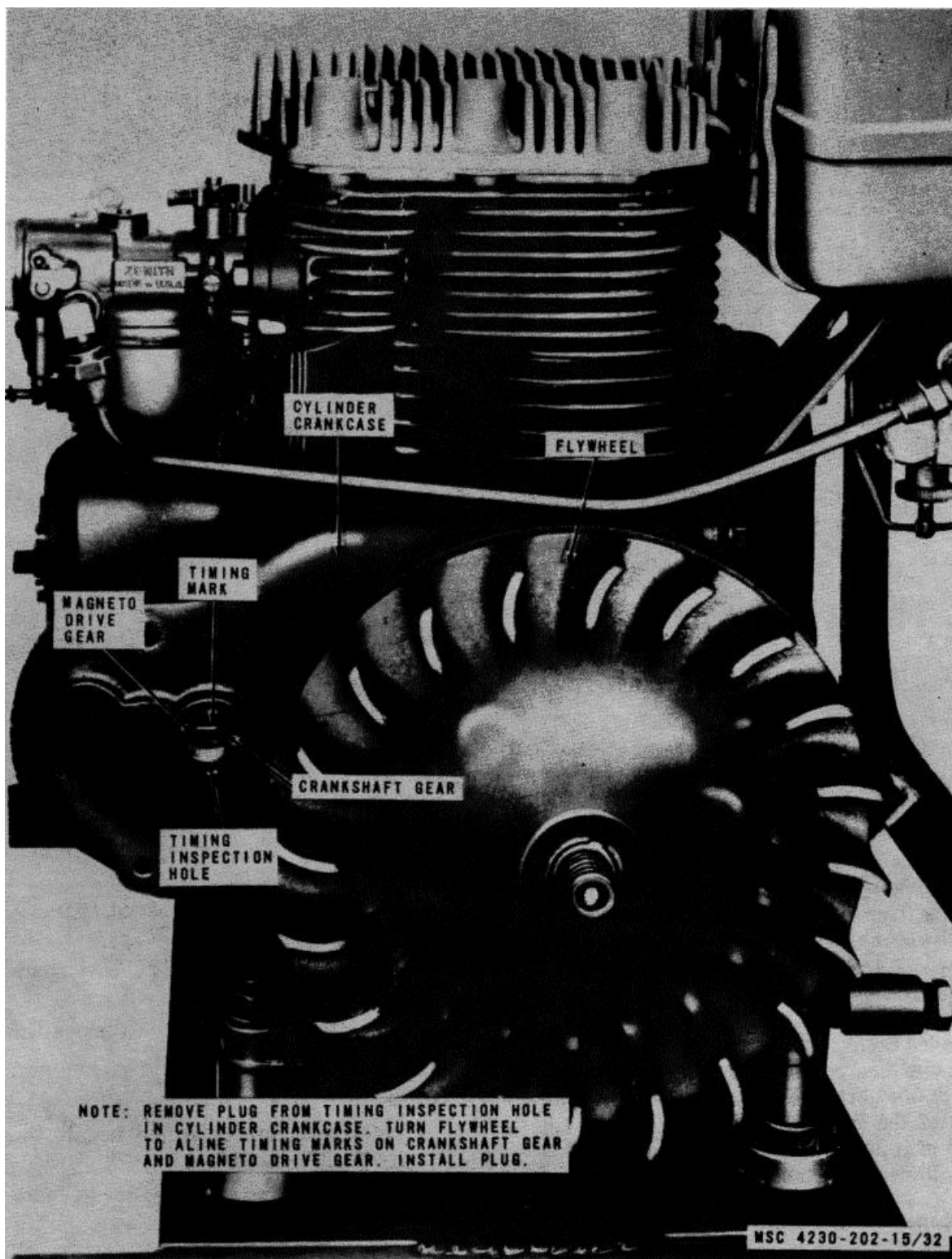


Figure 3-25. Magneto timing

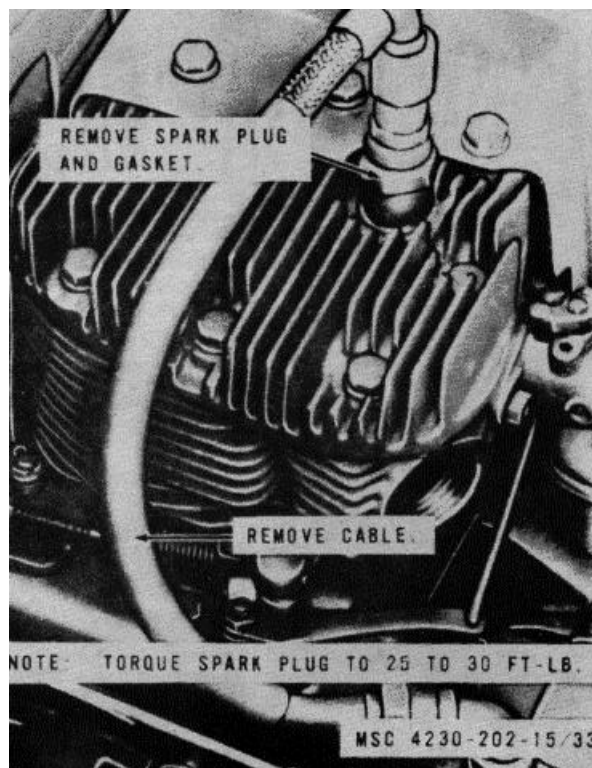


Figure 3-26. Spark plug and cable, removal and installation

Section XI. ENGINE

3-46. General

Component parts of the engine consist of a rope starting sheave flywheel, and cylinder head. The flywheel is mounted on the front end of the crankshaft. It is a combination fan and flywheel and, like the cylinder head, acts as an integral part of the engine cooling system. The crankcase breather is mounted on the cylinder crankcase. The sheave, located on the front of the engine, secures the flywheel on the crankshaft and is slotted to facilitate starting of the engine with a rope. The oil fill cap and gage and oil drain plug are mounted on the cylinder crankcase.

3-47. Rope Starting Sheave

Refer to figure 3-27 and remove and install the rope starting sheave.

3-48. Flywheel

a. Removal.

- (1) Remove the flywheel shroud (para. 3-35).
- (2) Remove the rope starting sheave (para. 3-47).
- (3) Refer to figure 3-28 and remove the flywheel.

b. Installation.

- (1) Refer to figure 3-28 and install the flywheel.
- (2) Install the rope starting sheave (para. 3-47).
- (3) Install the flywheel shroud (para. 3-35).

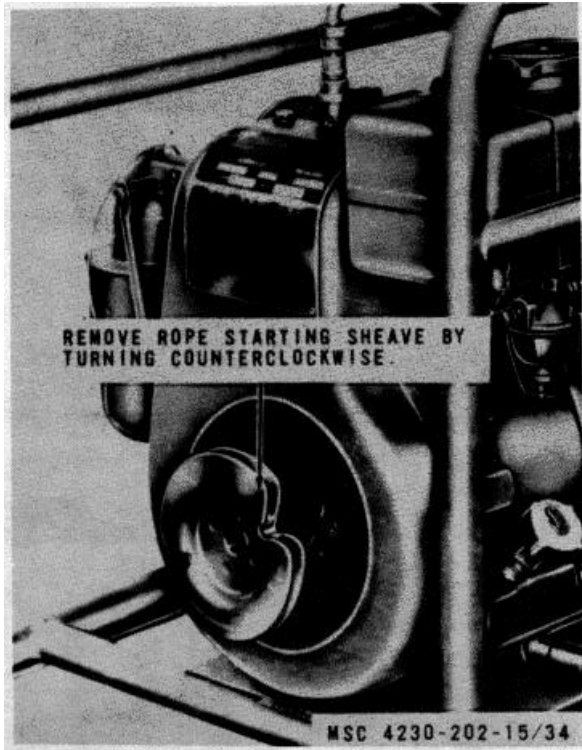


Figure 3-27. Rope starting sheave, removal and installation

3-49. Cylinder Head and Gasket

a. Removal.

- (1) Remove the flywheel shroud (para. 3-35).
- (2) Refer to figure 3-29 and remove the cylinder head and gasket.

b. Installation.

- (1) Refer to figure 3-29 and install the cylinder head and gasket.
- (2) Install the flywheel shroud (para. 3-35).

3-50. Crankcase Breather

a. *Removal and Installation.* Refer to figure 3-30 and remove and install the crankcase breather.

b. *Servicing.* Refer to paragraph 3-14 and service the crankcase breather.

3-51. Oil Fill Cap and Gage and Oil Drain

a. *Removal and Installation.* Refer to figure 3-31 and remove and install the oil fill cap and gage and oil drain.

b. *Servicing.* Refer to current lubrication order and fill the crankcase.

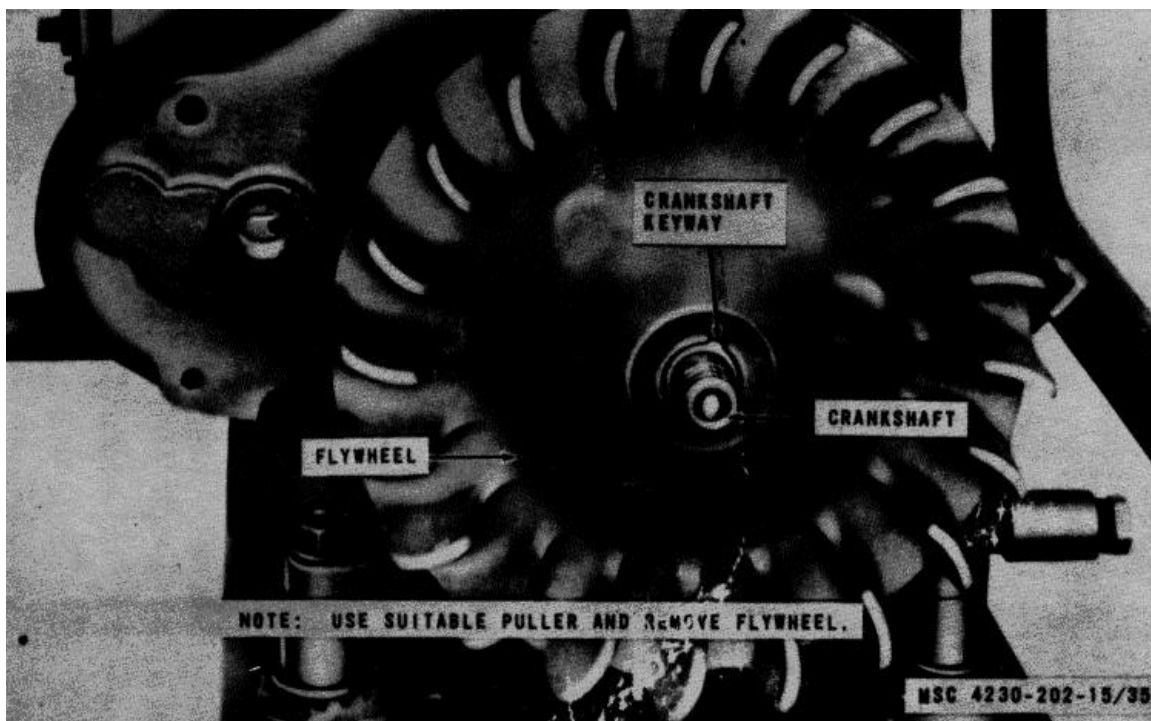


Figure 3-28. Flywheel, removal and installation

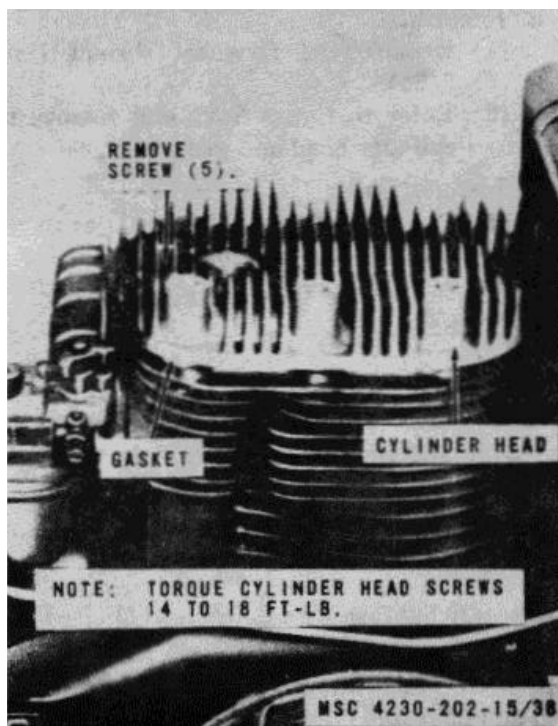


Figure 3-29. Cylinder head and gasket, removal and installation

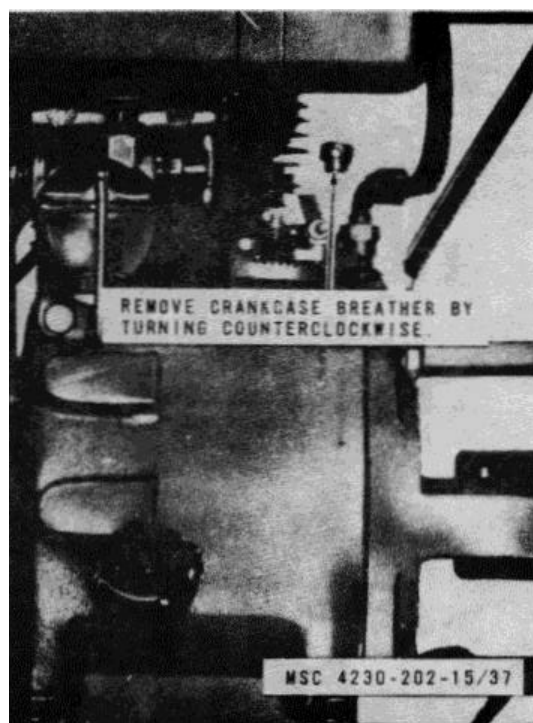


Figure 3-30. Crankcase breather, removal and installation



Figure 3-31. Oil fill cap and gage and oil drain, removal and installation

Section XII. AIR COMPRESSOR

3-52. General

The air compressor is a direct-drive, twin-diaphragm, air-seal type. The blower scroll and screen, which covers the blower wheel and blower shroud, cools the air *compressor* when the unit is operating. The two air cleaners filter the air entering the air compressor. On the outward or compression stroke, the inlet valves close and the air trapped between the diaphragm and compressor head is compressed and then force through the outlet valve in the head and on into the manifold.

3-53. Pop-off Relief Valves

Refer to figure 3-32 and remove and install the pop-off relief valves.

3-54. Manifold, Clamps, Bracket, Tubing, and Connectors

a. Removal.

- (1) Remove the pop-off relief valves (para 3-53).
- (2) Remove the air pressure gage (para 3-63).
- (3) Refer to figure 3-33 and remove the manifold, clamps, bracket, tubing and connectors.

b. Installation.

- (1) Refer to figure 3-33 and install the manifold, clamps, bracket, tubing and connectors.
- (2) Install the air pressure gage (para 3-63).
- (3) Install the pop-off relief valves (para 3-53).

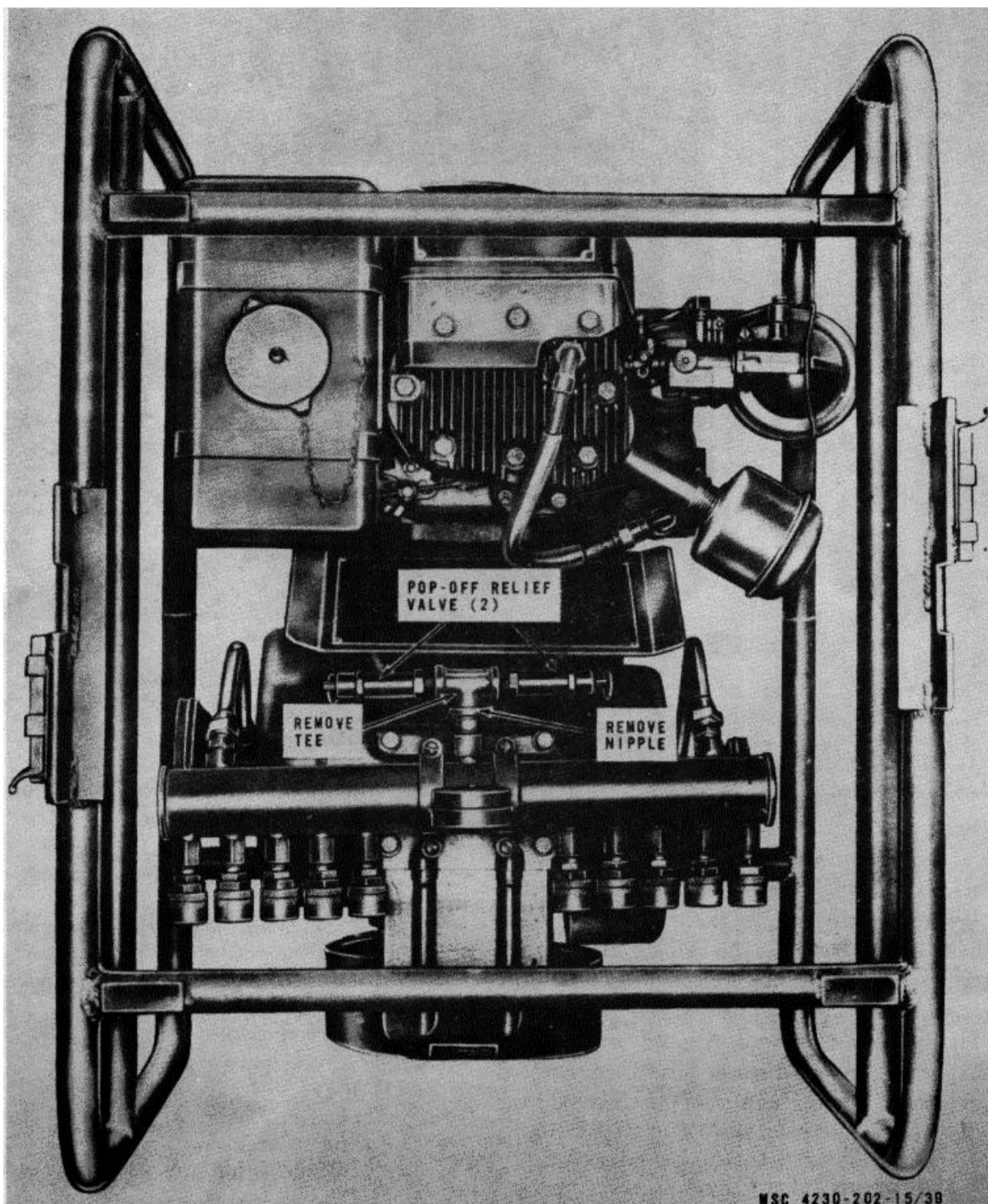


Figure 3-32. Pop-off relief valve, removal and installation

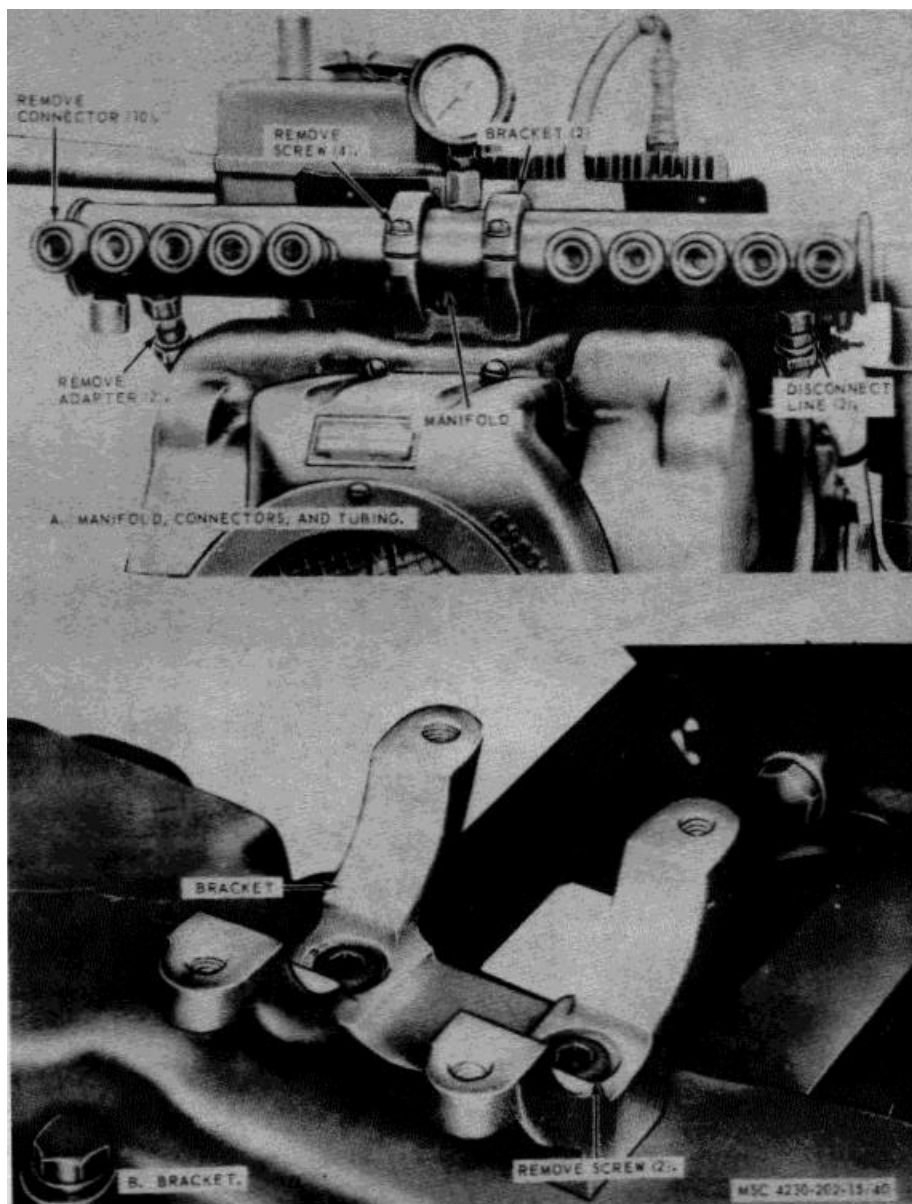


Figure 3-33. Manifold, clamps, bracket, tubing and connectors, removal and installation

3-55. Blower Scroll and Screen

Refer to figure 3-34 and remove and install the blower scroll and screen.

3-56. Blower Shroud

a. Removal.

- (1) Remove the blower scroll and screen (para 3-55).

- (2) Remove the manifold, clamps, bracket, tubing and connectors (para 3-54).

- (3) Refer to figure 3-35 and remove the blower shroud.

b. Installation.

- (1) Refer to figure 3-35 and install the blower shroud.

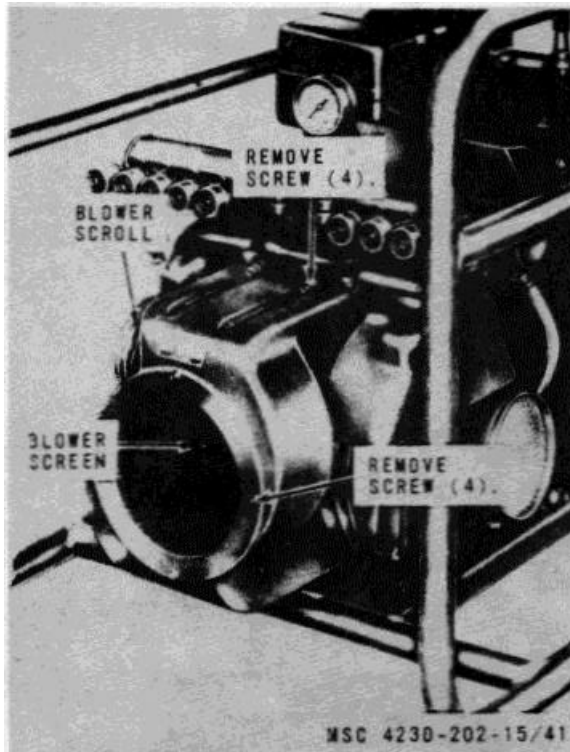


Figure 3-34. Blower scroll and screen, removal and installation

- (2) Install the manifold, clamps, brackets, tubing and connectors (para 3-14).
- (3) Install the blower scroll and screen (para 3-55).

3-57. Blower Wheel

a. *Removal.*

- (1) Remove the blower scroll and screen (para 3-55).
- (2) Refer to figure 3-36 and remove the blower wheel.

b. *Installation.*

- (1) Refer to figure 3-36 and install the blower wheel.
- (2) Install the blower scroll and screen (para 3-55).

3-58. Compressor Air Cleaners

a. *Removal.* Refer to figure 3-37 and remove the compressor air cleaners.

b. *Servicing.* Service the compressor air cleaners as necessary (para 3-13)

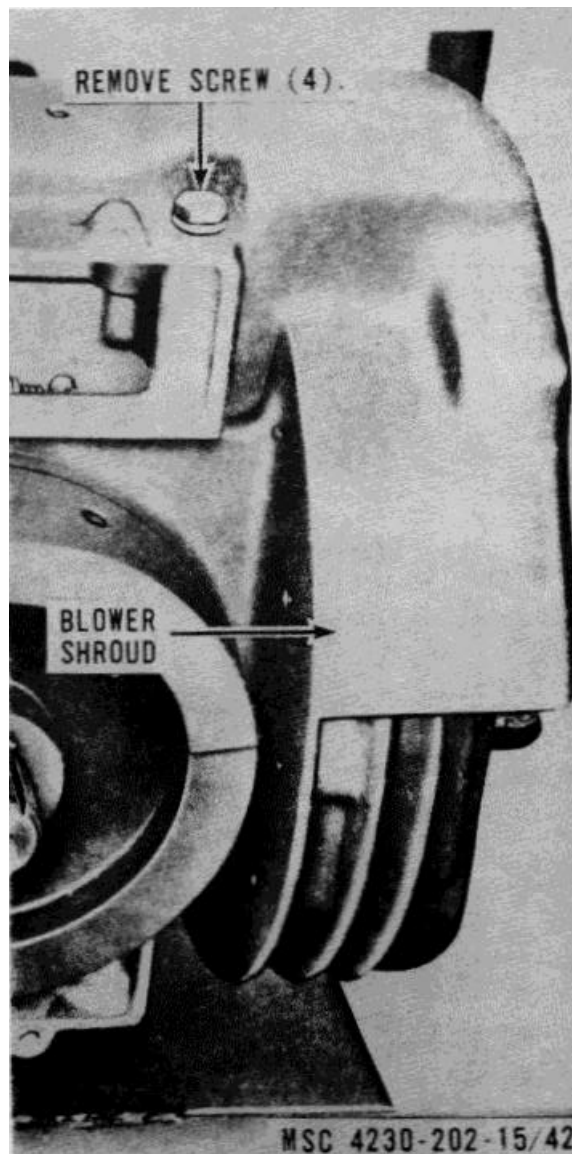


Figure 3-35. Blower shroud, removal and installation

c. *Installation.* Refer to figure 3-37 and install the compressor air cleaners.

3-59. Compressor Heads

a. *Removal.*

- (1) Remove the manifold tubing (para 3-54).
- (2) Remove the blower shroud (para 3-56).

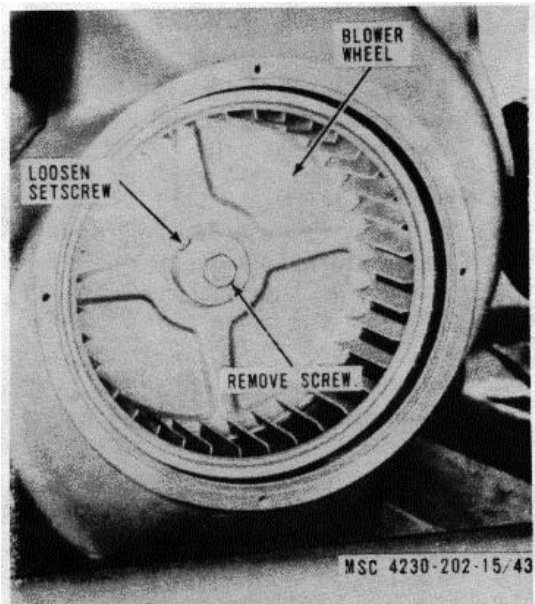


Figure 3-36. Blower wheel, removal and installation

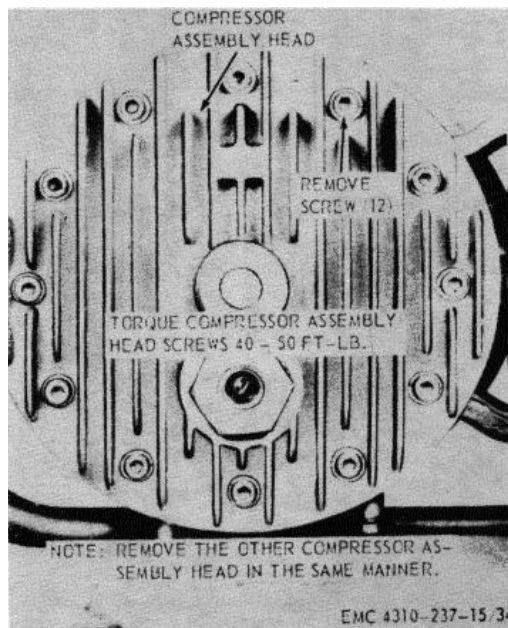


Figure 3-38. Compressor head, removal and installation

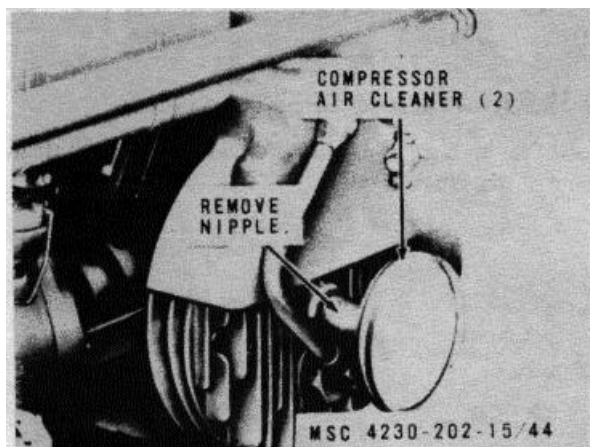


Figure 3-37. Compressor air cleaners, removal and installation

- (3) Remove the compressor air cleaners (para 3-58).
- (4) Remove the outlet valves (para 3-60).
- (5) Refer to figure 3-38 and remove the compressor heads.

b. Installation.

- (1) Refer to figure 3-38 and install the compressor heads.
- (2) Install the outlet valves (para 3-60).
- (3) Install the compressor air cleaners (para 3-58).
- (4) Install the blower shroud (para 3-56).
- (5) Install the manifold tubing (para 3-54).

3-60. Compressor Outlet Valve

a. Removal.

- (1) Remove the manifold tubing (para 3-54).
- (2) Refer to figure 3-39 and remove the compressor outlet valve.

b. Disassembly. Refer to figure 3-40 and disassemble the outlet valve.

c. Reassembly. Refer to figure 3-40 and reassemble the compressor outlet valve.



Figure 3-39. Compressor outlet valve, removal and installation

d. Installation.

- (1) Refer to figure 3-39 and install the compressor outlet valve.
- (2) Install the manifold tubing (para 3-54).

3-61. Compressor Inlet Valve

a. Removal.

- (1) Remove the compressor heads (para 3-59).
- (2) Refer to figure 3-41 and remove the compressor inlet valve.

b. Installation.

- (1) Refer to figure 3-41 and install the compressor inlet valve.
- (2) Install the compressor heads (para 3-59).

3-62. Compressor Diaphragms and Retaining Plates

a. Removal.

- (1) Remove the compressor heads (para 3-59).
- (2) Refer to figure 3-42 and remove the diaphragms and retaining plates.

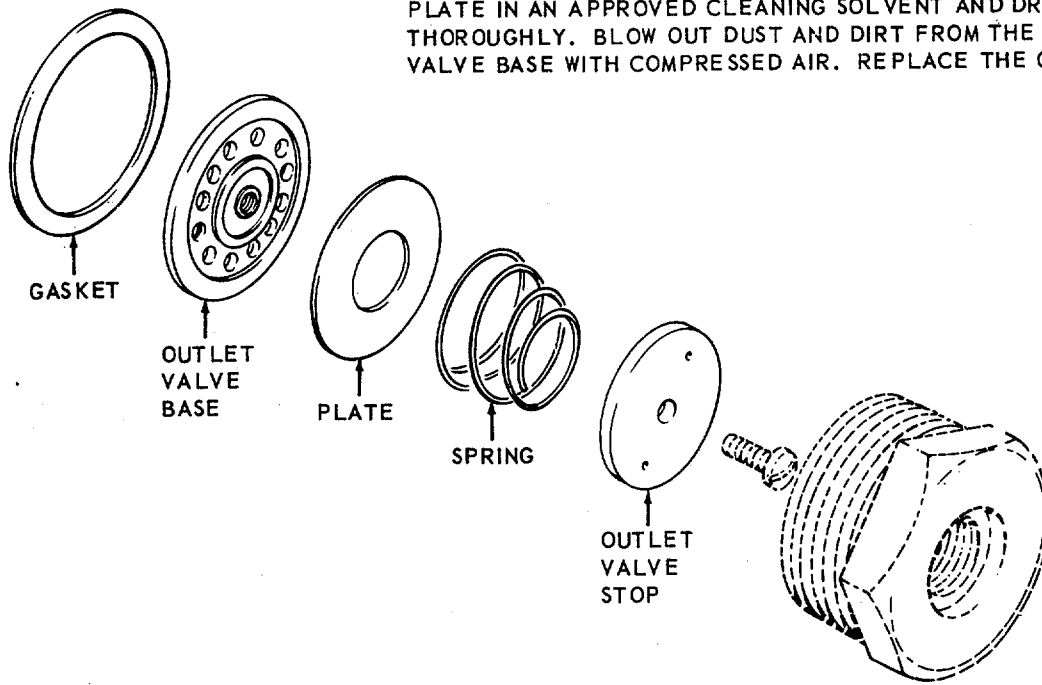
b. Installation.

- (1) Refer to figure 3-42 and install the compressor diaphragms and retaining plates.
- (2) Install the compressor heads (para 3-59).

3-63. Air Pressure Gage

Refer to figure 3-43 and remove and install the air pressure gage.

TO SERVICE: REMOVE THE OUTLET VALVE. CLEAN THE STOP, SPRING, AND PLATE IN AN APPROVED CLEANING SOLVENT AND DRY THOROUGHLY. BLOW OUT DUST AND DIRT FROM THE OUTLET VALVE BASE WITH COMPRESSED AIR. REPLACE THE GASKET.



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Figure 3-40. Compressor outlet valve, disassembly and reassembly

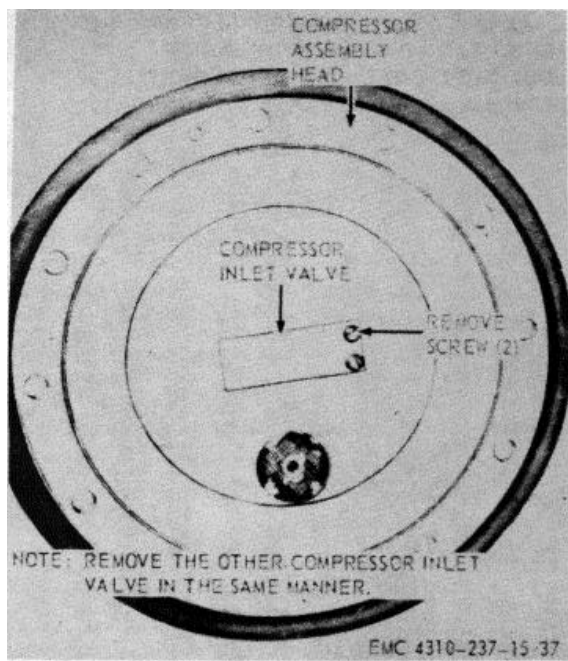


Figure 3-41. Compressor inlet valve, removal and installation



Figure 3-43. Air pressure gage, removal and installation

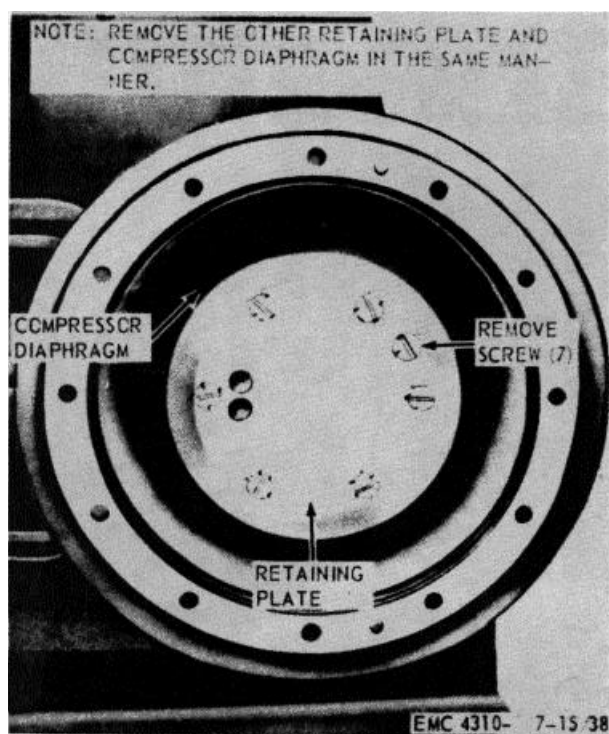


Figure 3-42. Compressor diaphragms and retaining plates, removal and installation

CHAPTER 4
DIRECT AND GENERAL SUPPORT AND DEPOT
MAINTENANCE INSTRUCTIONS

Section I. GENERAL

4-1. Scope

a. The following instructions are for direct and general support and depot maintenance personnel. They contain information on equipment maintenance that is beyond the scope of the tools, equipment, personnel, or supplies normally available to organizational maintenance.

b. Appendix A includes publications applicable to direct and general support and depot maintenance. Appendix C contains the maintenance allocation chart. The direct and general support and depot maintenance

repair parts and special tool lists are listed in appendix D, this manual.

4-2. Record and Report Forms

For record and report form applicable to direct and general support and depot maintenance, refer to TM 38-750.

Note. Applicable forms excluding Standard Form 46 which is carried by the operator, will be kept in a canvas bag mounted on the equipment.

Section II. DESCRIPTION AND DATA

4-3. Description

For a complete description of the delousing outfit, refer to paragraph 13.

4-4. Tabulated Data

a. *Engine.*

Cylinder 1
 Cylinder bore 2 5/8 in.
 Stroke ? 3/4 in.

b. *Nut and Bolt Torque Data.*

Engine base plate screws.....40-0 ft-lb (foot-pounds)
 Connecting rod cap screws14-18 ft-lb
 Crankshaft main bearing14-18 ft-lb
 plate polts

Air compressor piston40-50 ft-lb
 screws
 Air compressor base bolts40-50 ft-lb
 Clutch housing screws.....40-50 ft-lb

c. *Adjustment Data.*

Valve lifter (intake and exhaust):
 Engine cold (intake)0.008 in.
 Engine cold (exhaust)0.014 in.

d. *Engine Repair and Replacement Standards.*

Table 1 lists manufacturer's sizes, tolerances, clearances, and the maximum allowable wear and clearance.

Table 4-1. Engine Repair and Replacement Standards

	Manufacturer's dimensions and tolerance in inches		Desired clearance		Maximum allowable wear	Maximum allowable clearance
	Min	Max	Min	Max		
Cylinder:						
Cylinder bore	2.6245	2.6255				0.005
Cylinder taper		0.0005				
Cylinder out-of-round		0.0006				
Crankshaft:						
Journal length	1.000	1.005				
Journal diameter	1.000	1.001			0.002	
Journal taper		0.0005				
Journal out-of-round		0.0005				
Runout, flywheel end		0.007				
End play	0.002	0.004				
Connecting rod journal fillet radius		0.078				
Piston:						
Piston diameter	2.621	2.622				
Clearance skirt-to-cylinder bore	0.005	0.0065				
Piston Rings:						
Gap clearance (fitted in cylinder)	0.012	0.022				
Side clearance in grooves:						
Top ring	0.0020	0.0085				
2d and 3d rings	0.0010	0.0025				
Oil ring	0.0025	0.0040				
Spark:						
Advance (ahead of top dead center)		17°				
Connecting Rod:						
Rod bearing inside diameter					0.003	
Rod clearing to crankshaft Journal clearance	0.0007	0.0020				
Rod bearing and pin endplay	0.006	0.018				
Rod and piston clearance	0.0002	0.0008				
Valves, Guides, and Lifters:						
Valve stem diameter	0.808	0.309				
Valve guide inside diameter	0.12	0.318			0.002	
Valve seat angle		45°				
Valve stem to guide hole clearance	0.008	0.005				0.007
Lifter clearance in crankcase			0.001	0.0025		
Valve Seat (Exhaust):						
Valve seat outside diameter	1.3765	1.3770				

e. *Time Standards.* Table 2 lists the number of man-hours required under normal conditions for various operations in the maintenance and repair of the delousing outfit. The man-hours listed are not intended to be rigid standards. Under adverse conditions, the operations will take considerably longer; whereas, under ideal conditions with highly skilled mechanics, most of the operations can be accomplished in considerably less time.

			Hours
		Lubrication and Service	
01	ENGINE		
	0100	Engine, Assembly: Engine, gasoline (Drain, flush and refill crankcase).	0.2
	0106	Engine Lubrication System: Breather, crankcase (remove, clean, and install).	0.1

Table 4-2. Time Standards

Table 4-2. Time Standards-Continued

		Hours
03	FUEL SYSTEM	
0304	Air Cleaner: Air cleaner assembly (Drain, clean, and refill with oil).	0.1
0306	Tanks, Lines, Fittings: Tank, fuel (Replenish fuel). Cap, fuel tank (Clean vent).	0.1 0.1
0309	Fuel Filters: Strainer assembly, fuel (Remove, clean, and install).	0.1
05	COOLING SYSTEM	
0502	Cowling, Deflectors, Air Ducts, Shrouds, Etc: Screen, engine (Clean).	0.1
06	ELECTRICAL SYSTEM	
0605	Ignition Components: Magneto assembly (Remove, clean, and install vent screen). Spark plug (Remove, clean, and install).	0.1 0.1
50	PNEUMATIC EQUIPMENT	
5005	Valves: Valve assembly (Remove, clean, and install).	0.8
5008	Air Intake: Air cleaner (Clean)	0.2
5010	Compressor Cooling: Screen, blower (clean). Remove and Replace	0.1
01	ENGINE	
0100	Engine Assembly: Engine, Gasoline	1.0
0101	Crankcase, Cylinder Head: Head, cylinder (Includes remove and install flywheel shroud). Cylinder, crankcase assembly (Engine out of unit).	0.5 5.2
0102	Crankshaft: Crankshaft (Engine out of unit). Gasket, main bearing (Includes remove and install engine).	4.8 2.7
0103	Flywheel Assembly: Flywheel (Includes remove and install sheave and shroud).	0.7
0104	Pistons, Connecting Rods: Piston (Engine out of unit).	3.1

Table 4-2. Time Standards-Continued

		H Hours
0105	Rod assembly, connecting (Engine out of unit). Valves, Camshafts, and Timing System: Valve, engine exhaust (Includes remove and install head, carburetor). Valve, engine intake (Includes remove and install head, carburetor). Seat, valve spring (Includes remove and install valves and grind seats). Guide, valve stem (Includes remove and install valves). Spring, helical compression Lock, valve spring retainer Lifter, valve (Includes remove and install camshaft). Plate, valve tappet Camshaft, engine (Includes remove and install crankshaft). Gear, timing, crankshaft (Includes remove and install crankshaft). Gear, timing, camshaft (Includes remove and install camshaft).	2.8 1.9 1.9 2.4 2.5 1.5 1.5 5.8 0.2 5.8 4.3 5.5
0106	Engine Lubrication System: Pump assembly, oil (Includes remove and install engine base). Push rod, oil pump (Includes remove and install camshaft) Breather, crankcase Base, engine (Includes remove and install engine and oil pump).	1.2 5.2 0.1 1.2
0107	Engine Starting Systems: Pulley (sheave) Starter rope	0.2 0.1
03	FUEL SYSTEM	
0301	Carburetor: Carburetor assembly (Includes remove and install air cleaner).	0.3
0304	Air Cleaner: Cleaner and bracket assembly, air	0.2
0306	Tanks, Lines, Fittings: Cap, fuel tank Tank, fuel (Includes remove and install fuel strainer). Line assembly, fuel	0.1 0.4 0.1

Table 4-2. Time Standards-Continued

		Hours
0308	Engine Speed Governor and Controls: Flyweight assembly (Includes remove and replace camshaft).	5.5
	Control assembly, governor (includes adjustment).	0.7
0309	Fuel Filters: Strainer assembly, sediment	0.2
04	EXHAUST SYSTEM	
0401	Muffler and Pipes: Muffler, exhaust	0.1
05	COOLING SYSTEM	
0502	Cowling, Deflectors, Air Ducts, Shroud, Etc: Shroud assembly, air Plate, deflector	0.2 0.2
06	ELECTRICAL SYSTEM	
0605	Ignition Components: Magneto assembly (includes adjustment). Cable, spark plug Spark plug (Includes adjustment).	0.2 0.2 0.2
0615	Radio Interference Suppression: Strap, bond	0.2
15	FRAME	
1501	Frame Assembly: Frame (Includes remove and install compressor and engine).	1.5
18	BODY, CAB, HOOD, AND HULL	
1808	Boxes: Box, Accessory	0.1
22	MISCELLANEOUS BODY, CHASSIS OR HULL AND ACCESSORY ITEMS	
2210	Data Plates: Plate, instruction	0.1
47	GAGES	
4702	Gages: Gage, pressure	0.1
50	PNEUMATIC EQUIPMENT	
5000	Air Compressor Assembly: Compressor assembly, air	1.
5001	Crankcase, Cylinder Head: Housing, compressor (Includes remove and install compressor).	4.1

Table 4-2. Time Standards-Continued

		Hours
	Head, cylinder (Includes remove and install blower shroud).	1.7
5002	Crankshaft: Crankshaft, compressor (Includes, remove and install compressor).	4.
	Bearing, ball (Includes remove and install crankshaft).	4.6
5004	Pistons, Connecting Rods and Rotors: Piston assembly Diaphragms (Includes remove and install heads).	2.6 2.0
	Bearing, piston (Includes remove and install crankshaft).	4.5
5005	Valves: Valve, inlet (Includes remove and ill heads).	1.5
5007	Compressor Drive: Coupling assembly (Includes remove and install compressor).	1.5
5008	Air Intake: Cleaner, air (ea)	0.2
5010	Compressor Cooling Shroud, blower Scroll, blower Screen, blower Wheel, blower	1.0 0.3 0.1 0.4
5015	Air Discharge System: Tube assembly Manifold assembly	0.4 0.7
58	DECONTAMINATION EQUIPMENT COMPONENTS	
5803	Decontamination Equipment Components: Hose assembly Gun	0.1 0.1
76	FIRE FIGHTING EQUIPMENT COMPONENTS	
7603	Fire Extinguishers: Extinguisher, fire	0.1

Section III. SPECIAL TOOLS AND EQUIPMENT

4-5. Special Tools and Equipment

No special tools or equipment are required by direct and general support and depot maintenance personnel for the maintenance of the delousing outfits.

4-6. Direct and General Support and Depot Maintenance Repair Parts

Direct and general support and depot maintenance repair parts are listed and illustrated in Appendix D of this manual.

4-7. Specially Designed Tools and Equipment

No specially designed tools or equipment are

required by direct and general support and depot maintenance personnel for the maintenance of the delousing outfit.

Section IV. TROUBLESHOOTING

4-8. General

This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the delousing outfit or any of its components. Each trouble symptom stated is followed by a list of probable causes of the trouble. The possible remedy recommended is described opposite the probable cause.

4-9. Engine Hard to Start or Fails To Start

Probable cause	Possible remedy
Magneto defective	Repair the magneto (para. 5-2).
Compression poor	Repair or replace valves (para. 5-8). Replace piston and/or replace piston rings (para. 5-10).
Valves sticking	Repair valves (para. 5-8).

4-10. Engine Misses or Runs Erratically

Probable cause	Possible remedy
Magneto defective	Repair magneto (para 5-2).
Governor defective	Repair governor (para. 5-17).
Compression poor	Replace valves (para. 6-8), and replace piston and/or piston rings (para 5-10).

4-11. Engine Will Not Idle Smoothly

Probable cause	Possible remedy
Valves burned, warped, or sticking.	Clean, grind, or replace valves (para. 5-8).
Valves springs weak or broken.	Replace valve springs (para. 5-8).
Piston rings worn; piston or cylinder cored.	Replace piston rings and/or piston (para. 5-10).

4-12. Engine Lacks Power

Probable cause	Possible remedy
Governor defective	Repair governor (para. 5-17).
Valves burned or sticking	Grind or replace valves (para. 5-8).
Piston and/or piston ring defective.	Replace piston and/or piston rings (para 5-10).

4-13. Engine Noisy

Probable cause	Possible remedy
Piston rings, piston or piston pin worn.	Replace rings, piston, or piston pin (para 5-10).
Connecting rod or main bearing worn.	Replace connecting or main bearing (para 5-10).

4-14. Engine Exhaust Smoky

Probable cause	Possible remedy
Piston and/or piston rings defective	Replace piston and/or rings (para. 5-10).

4-15. Compressor Noisy

Probable cause	Possible remedy
Piston bearings worn	Replace bearings (para. 6-4).
Piston worn or defective	Replace piston (par. 6-4).
Crankshaft bearings defective.	Replace bearings (para. 6-6).

4-16. Compressor Builds up Air Pressure Slowly

Probable cause	Possible remedy
Piston defective	Replace piston (para. 6-4).

4-17. Compressor Overheats

Probable cause	Possible remedy
Crankshaft bearings defective.	Replace bearings (para. 6-6).

Section V. REMOVAL AND INSTALLATION OF ENGINE AND AIR COMPRESSOR

4-18. General

Major components of the delousing outfit are the engine and the air compressor. The two are directly coupled. This section contains information on the removal and installation of the engine and the air compressor as assemblies.

4-19. Engine

Refer to figure 4-1 and remove and install the engine.

4-20. Air Compressor

Refer to figure 4-2 and remove and install the compressor.

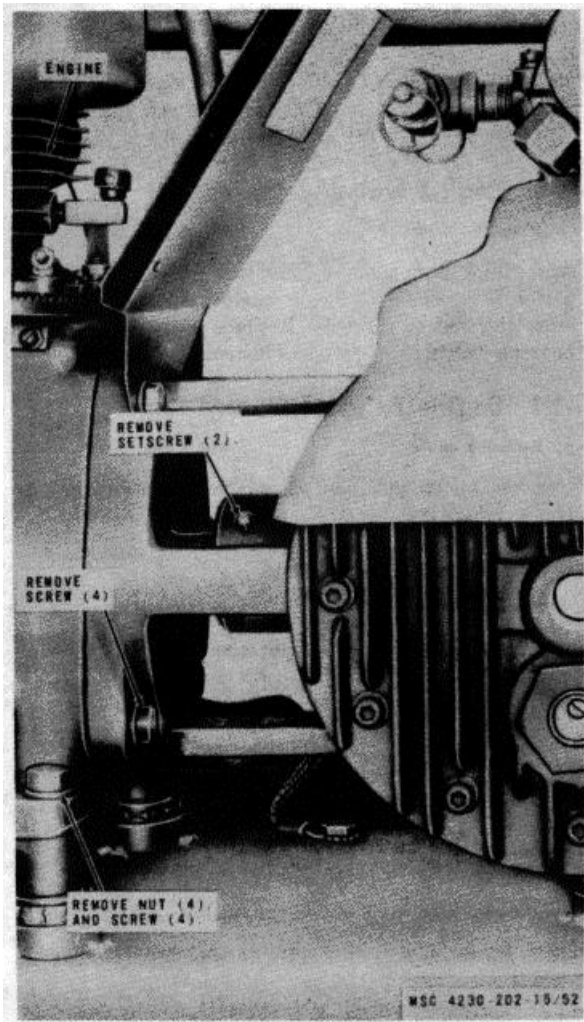


Figure 4-1. Engine removal and installation

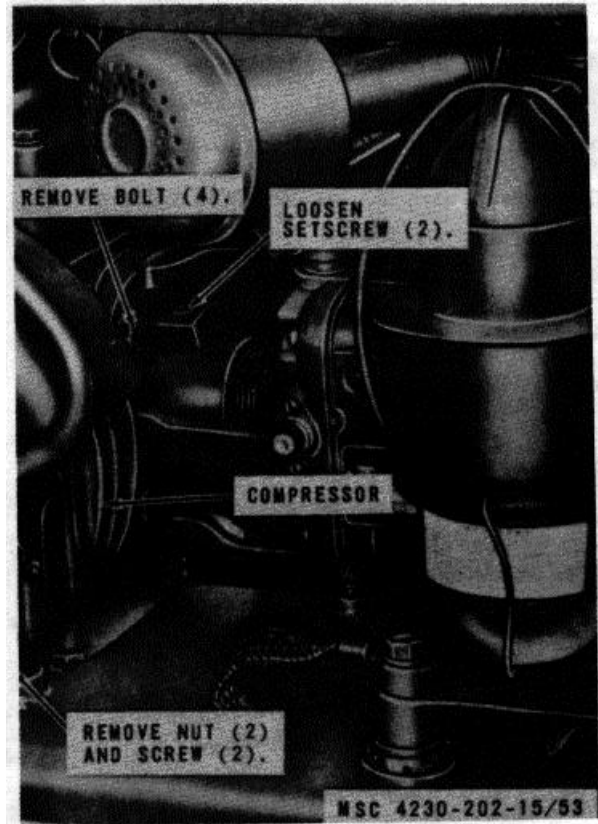


Figure 4-2. Air compressor, removal and installation

CHAPTER 5
ENGINE REPAIR INSTRUCTIONS

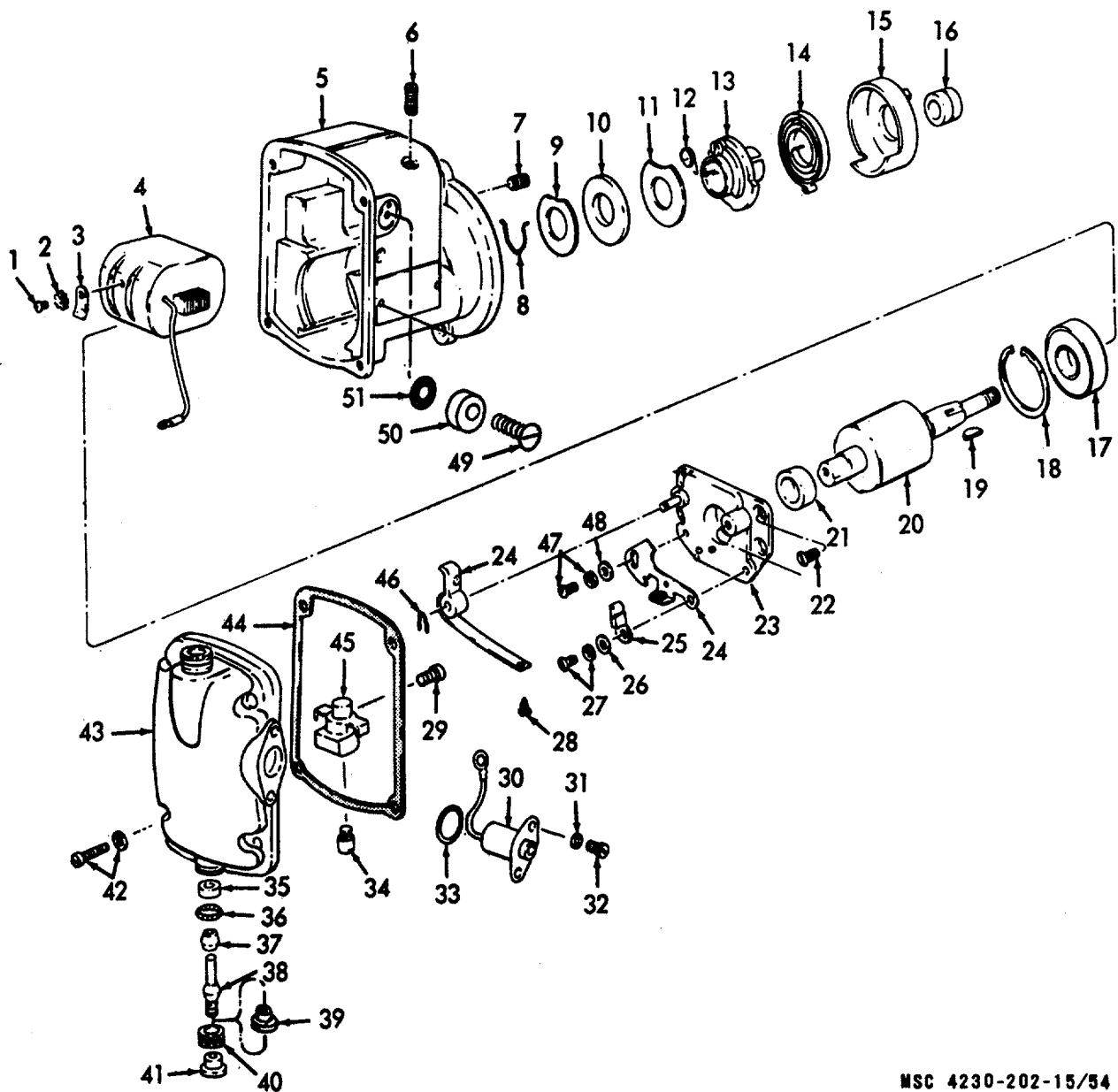
Section I. MAGNETO

5-1. General

The flange mounting type magneto for the one-cylinder engine has a two-pole magneto rotor and a single-lobe cam that produces one ignition spark per revolution. A single pawl impulse coupling facilitates starting by providing an intensified and retarded ignition spark at low engine speed.

5-2. Magneto

- a. *Removal.* Remove the magneto (para 3-44).
- b. *Disassembly.* Refer to figure 5-1 and disassemble the magneto.
- c. *Reassembly.* Refer to figure 5-1 and reassemble the magneto.
- d. *Installation.* Install the magneto (para 3-44).



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- | | |
|-----------------------------------------|-------------------------------------------|
| 1 Screw machine, No. 6-32 x 3/16 in. | 12 Torsion spring |
| 2 Washer, lock, No. 6 | 13 Impulse coupling hub |
| 3 Coil clip | 14 Torsion spring |
| 4 Magneto coil | 15 Coupling shell |
| 5 Magneto housing | 16 Sleeve, bearing |
| 6 Setscrew, 5/16-24 x 7/8 in. (2) | 17 Bearing, ball |
| 7 Pin straight, 0.375 in. dia, 1 in. lg | 18 Retaining ring |
| 8 Retaining clip | 19 Key, woodruff No. 3 |
| 9 Washer, flat (spec) | 20 Magneto rotor |
| 10 Seal | 21 Sleeve |
| 11 Washer, flat (spec) | 22 Screw, machine, No. 8-32 x 3/8 in. (4) |

Figure 5-1. Magneto, disassembly and reassembly

23	Bearing support plate	37	Switch plunger ferrule
24	Contact set	38	Switch plunger
25	Camwick and holder	39	Spacer
26	Washer, flat (spec)	40	Nut, knurled (spec)
27	Screw, assembled washer No. 8-32 x 3/8 in.	41	Switch button
28	Screw, tapping, No. 6-32 x 3/8 in.	42	Screw, assembled washer, No. 10-24 x 6/8 in. (2)
29	Screw, machine No. 6-32 x 1/2 in. (2)	43	End cap
30	Magneto condenser	44	Gasket
31	Washer, lock (spec) (2 rqr)	45	Insulator
32	Screw, machine, No. 62 x 3/8 in. (2)	46	Pinlock
33	Seal	47	Screw, assembled washer, No. 6-32 x 3/8 in.
34	Rod	48	Washer, flat (spec)
35	Bushing	49	Screw, cover (2)
36	Switch spring	50	Cover (2)
		51	Vent (2)

Figure 5.1-Continued.

Section II. ENGINE BASE PLATE AND ASSEMBLED OIL PUMP'

5-3. General

The assembled oil pump is attached to the engine base plate. The base plate covers the bottom of the engine crankcase.

5-4. Engine Base Plate and Assembled Oil Pump

a. Removal.

- (1) Drain the oil from the engine crankcase.
- (2) Remove the oil from the engine air cleaner (para 3-40).
- (3) Remove the engine (para 4-19).
- (4) Refer to figure 5-2 and turn the engine on its side and remove the engine base plate and assembled oil pump.

b. Installation.

- (1) Refer to figure 5-2 and install the engine base plate and assembled oil pump.
- (2) Install the engine (para 4-19).
- (3) Service the engine air cleaner (para 3-40).
- (4) Refer to the current lubrication order and fill the engine crankcase.

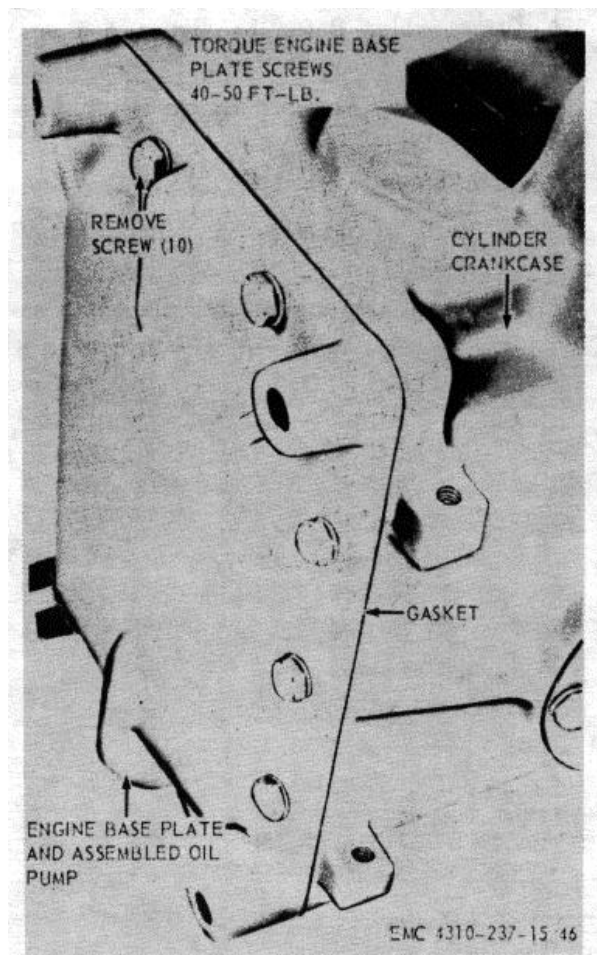


Figure 5-2. Engine base plate and assembled oil pump, removal and installation

Section III. OIL PUMP

5-5. General

The oil pump is contained in the oil trough, mounted to the engine base. A cam-actuated push rod operates the oil pump, maintaining the proper level of oil in the trough. The dipper on the connecting rod cap, striking the oil in the trough, provides splash-type lubrication for the internal parts of the engine.

5-6. Oil Pump

a. Removal.

- (1) Remove the engine base plate and assembled oil pump (para 5-4).
- (2) Refer to figure 5-3 and remove the oil pump.

b. *Disassembly.* Refer to figure 5-4 and disassemble the oil pump.

c. *Reassembly.* Refer to figure 5-4 and reassemble the oil pump.

d. Installation.

- (1) Refer to figure 5-3 and install the oil pump.
- (2) Install the engine base plate and assembled oil pump (para 5-4).
- (3) Refer to the current lubrication order and fill the crankcase.

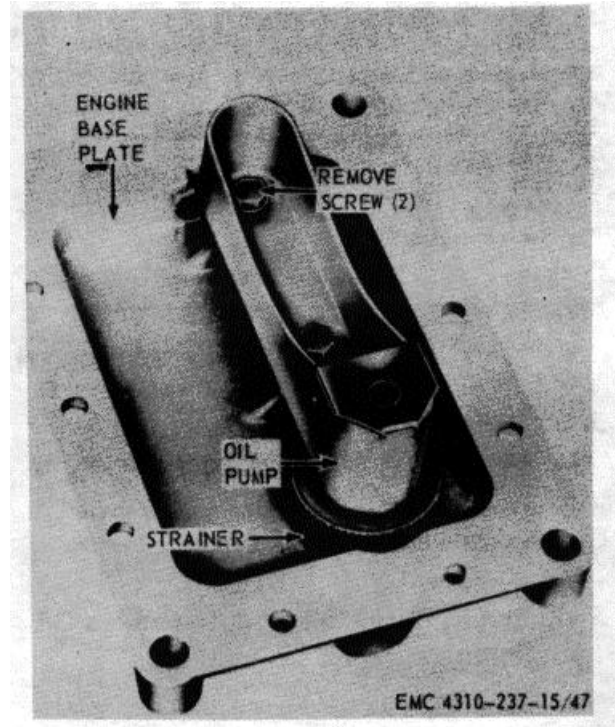
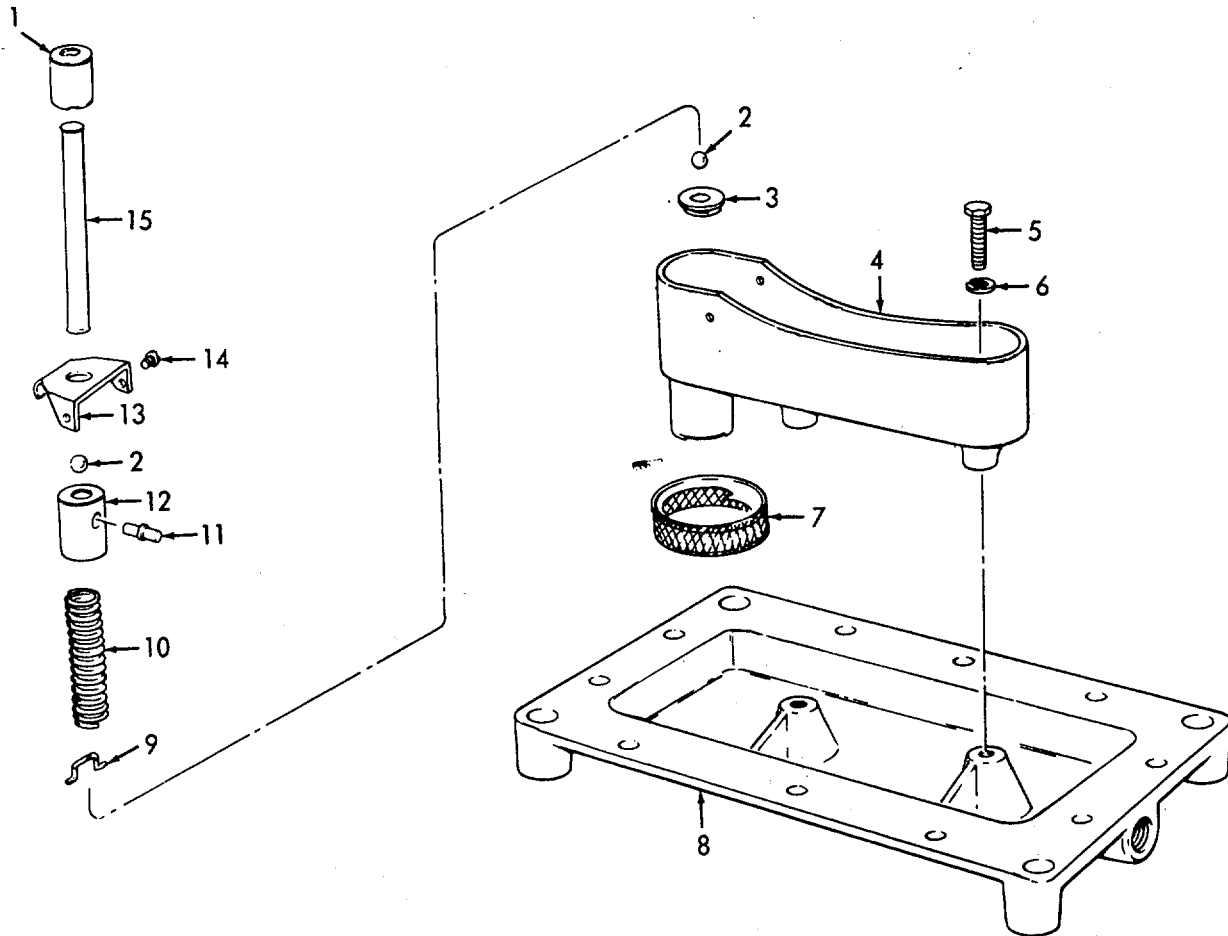


Figure 5-3. Oil pump, removal and installation



EMC 4310-237-15/48

- | | |
|------------------------------------------|-------------------------------------------------------|
| 1 Push rod cap | 9 Retainer |
| 2 Ball (2) | 10 Spring |
| 3 Body seal | 11 Pin |
| 4 Oil pump body | 12 Plunger |
| 5 Screw, cap, hex-hd, 1/4-20 x 1 in. (2) | 13 Oil pump body cover |
| 6 Washer, lock, 1/4 in. (2) | 14 Screw, tapping, thd-forming No. 232 x 3/16 in. (2) |
| 7 Strainer element | 15 Rod |
| 8 Engine base | |

Figure 5-4. Oil pump rod, disassembly and reassembly

Section IV. INTAKE AND EXHAUST VALVES

5-7. General

The valves operate in the engine block. They are lifted by mushroom head tappets located in the crankcase. This section contains information on the maintenance of the intake and exhaust valves.

5-8. Intake and Exhaust Valves

a. Removal.

- (1) Remove the cylinder head (para 3-49).
- (2) Remove the valve inspection plate (para 3-44).

(3) Refer to figure 5-5 and remove the intake and exhaust valves.

b. Grinding Valves and Seat Inserts.

- (1) Using a valve face grinder, reface the valves to an angle of 45°
- (2) Install a pilot correct size in the valve stem bore of the valve guide. Face the stone on the valve reseating outfit to the angle of 45°. Place the grinder and stone assembly over the pilot in the valve stem bore of the valve guide and grind just enough to make a smooth seat.

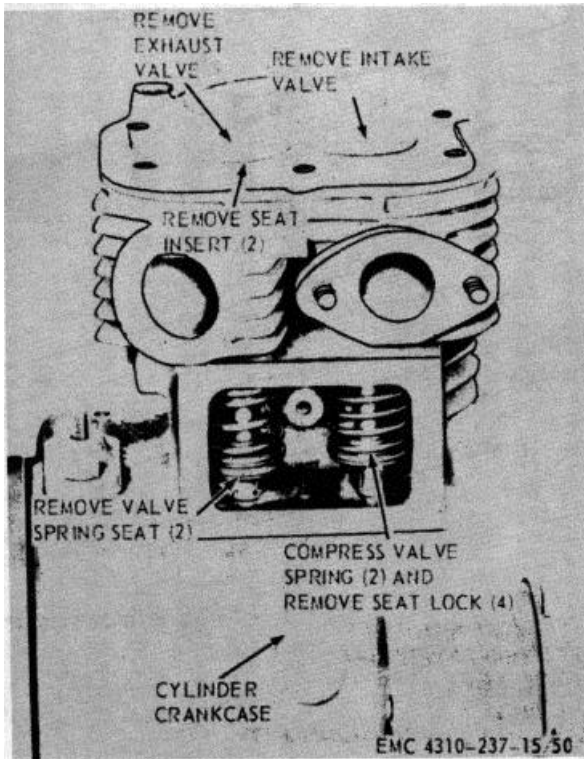


Figure 5-5. Intake and exhaust valve, removal and installation

(3) Inspect the valve seats for concentricity with a dial indicator.

c. Installation.

- (1) Refer to figure 5-5 and install the valves.
- (2) Install the valve inspection plate (para 3-44).
- (3) Install the cylinder head (para 3-49).

d. Valve Adjustment. Refer to figure 5-6 and adjust the valves.

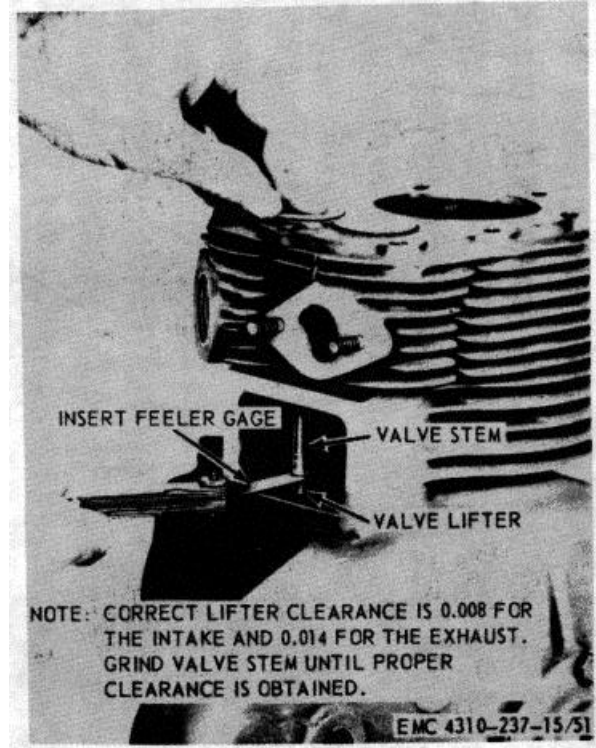


Figure 5-6. Valve adjustment

Section V. CONNECTING ROD AND PISTON

5-9. General

The piston which is cast of aluminum alloy, has four grooves above the piston pin, two grooves for the compression rings, one groove for the scraper ring, and one groove for the oil ring. The piston pin is of the full-floating type, retained in the piston by two spring-type retainers. The connecting rod and cap are machined

together and must be used only as a matched set.

5-10. Connecting Rod and Piston

a. Removal.

- (1) Remove the cylinder head (para 3-49).

- (2) Remove the engine base plate and assembled oil pump (para 5-4).
- (3) Refer to figure 5-7 and remove the connecting rod and piston.

b. *Disassembly.* Refer to figure 5-8 and disassemble the connecting rod and piston.

c. *Reassembly.* Refer to figure 5-8 and reassemble the connecting rod and piston.

d. *Installation.*

- (1) Refer to figure 5-7 and install the connecting rod and piston.

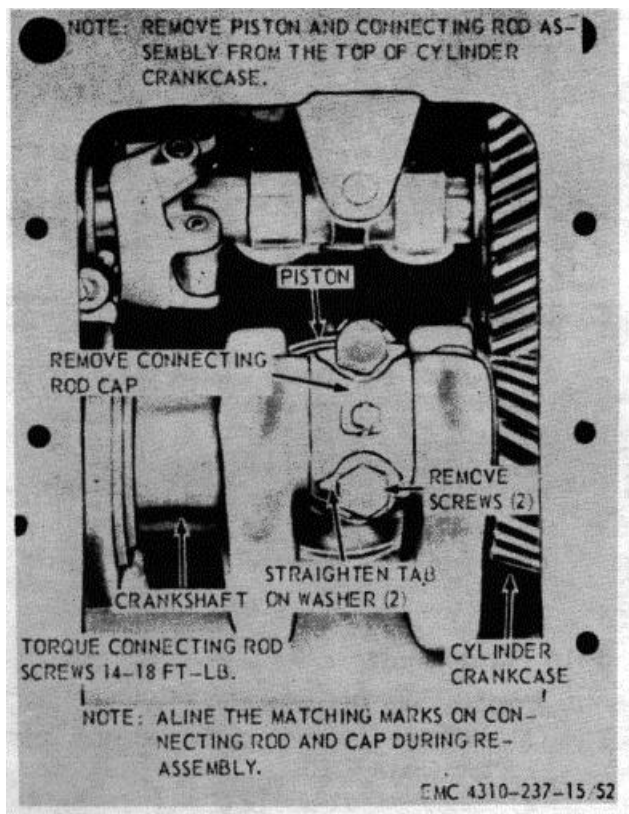
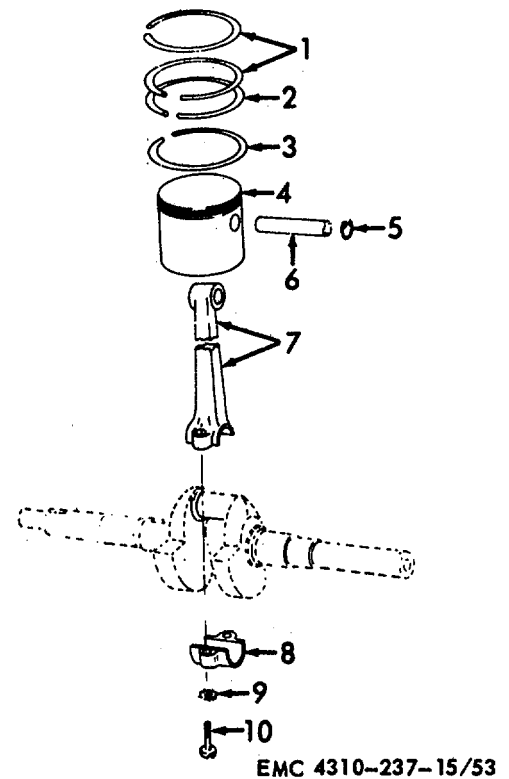


Figure 5-7. Connecting rod and piston removal and installation

- (2) Install the engine base plate and assembled oil pump (para 5-4).
- (3) Install the cylinder head (para 3-49).



- 1 Compression ring (2)
- 2 Piston scraper ring
- 3 Oil ring
- 4 Piston
- 5 Piston pin retaining ring (2)
- 6 Piston pin
- 7 Connecting rod
- 8 Connecting rod cap
- 9 Washer, lock, 5/16 in. (2)
- 10 Bolt, machine, 5/16-18 x 1-1/4 in. (2)

Figure 5-8. Connecting rod and piston, disassembly and reassembly

Section VI. CRANKSHAFT

5-11. General

The crankshaft is supported at both ends by roller bearings. The outer race or cup of the bearing at the takeoff end of the engine, is supported in the bearing

plate. Shims are installed between the bearing plate and crankcase to provide the proper crankshaft play. The bearing retainer plate is attached to the flywheel end of the engine crankcase.

5-12. Bearing Plate

a. Removal.

- (1) Remove the engine (para 4-19).
- (2) Refer to figure 5-9 and remove the bearing plate.

b. Installation.

- (1) Refer to figure 5-9 and install the bearing plate.
- (2) Install the engine (para 4-19).

5-13. Bearing Retainer Plate

a. Removal.

- (1) Remove the flywheel shroud (para 3-35).
- (2) Remove the starting rope sheave (para 3-47).
- (3) Remove the flywheel (para 3-48).
- (4) Refer to figure 5-10 and remove the bearing retainer plate.

b. Installation.

- (1) Refer to figure 5-10 and install the bearing retainer plate.

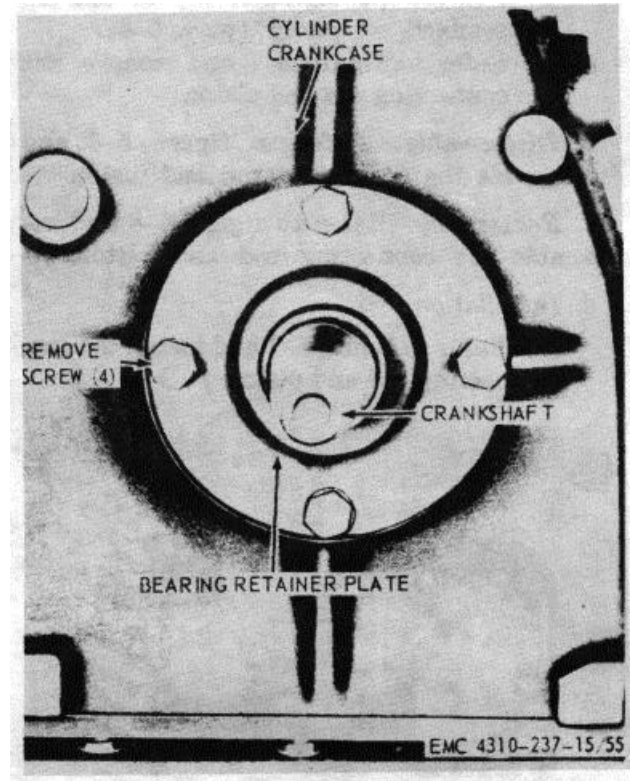


Figure 5-10. Bearing retainer plate, removal and installation

- (2) Install the flywheel (para 3-48).
- (3) Install the starting rope sheave (para 3-47).
- (4) Install the flywheel shroud (para 5-8).

5-14. Crankshaft

a. Removal and Disassembly.

- (1) Remove the connecting rod and piston (para 5-10).
- (2) Remove the bearing plate (para 5-12).
- (3) Remove the bearing retainer plate (para 5-13).
- (4) Refer to figure 5-11 and remove and disassemble the crankshaft.

b. Reassembly and Installation.

- (1) Refer to figure 5-11 and reassemble and install the crankshaft.
- (2) Install the bearing retainer plate (para 5-13).
- (3) Install the bearing plate (para 5-12).
- (4) Install the connecting rod and piston (para 5-10).

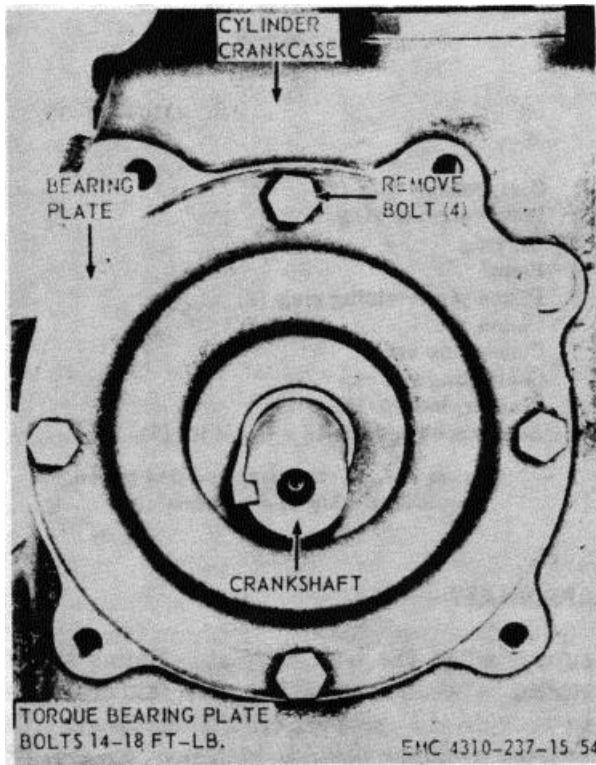
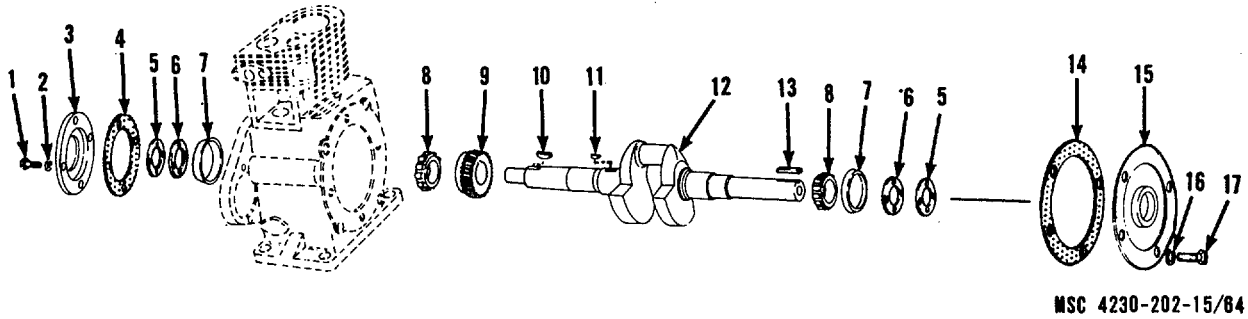


Figure 5-9. Bearing plate, removal and installation



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- 1 Screw, cap, hex-hd, 1/4-20 x 1/2 in.
- 2 Washer, lock, 1/4 in. (4)
- 3 Crankshaft bearing retainer
- 4 Gasket
- 5 Gasket (2)
- 6 Packing retainer (2)
- 7 Bearing cup (2)
- 8 Bearing cone (2)
- 9 Crankshaft gear

- 10 Key, woodruff, No. 13
- 11 Key, woodruff, No. 3
- 12 Crankshaft
- 13 Key, machine, 1/4 in. x 2 in.
- 14 Gasket
- 15 Bearing plate
- 16 Washer, lock, 5/16 in. (4)
- 17 Bolt, machine, 5/16-18 x 3/4 in. (4)

Section VII.. CAMSHAFT AND GOVERNOR ASSEMBLY

5-15. General

The camshaft, an alloy-steel forging, rotates on a pin driven into the crankcase and actuates the oil pump push rod. The mushroom-type lifters open and close the intake and exhaust valves. The governor flyweights assembled on the camshaft control the engine speed by varying the throttle opening as required by the load imposed upon the engine. The governor yoke and shaft actuates the governor control assembly.

5-16. Governor Yoke and Shaft

- a. *Removal and Disassembly.*
 - (1) Remove the governor linkage (para 3-42).
 - (2) Remove the crankshaft (para 5-14).
 - (3) Refer to figure 5-12 and remove and disassemble the governor yoke and shaft.

- b. *Reassembly and Installation.*

- (1) Refer to figure 5-12 and reassemble and install the governor yoke and shaft.
- (2) Install the crankshaft (para 5-14).
- (3) Install the governor linkage (para 3-42.)

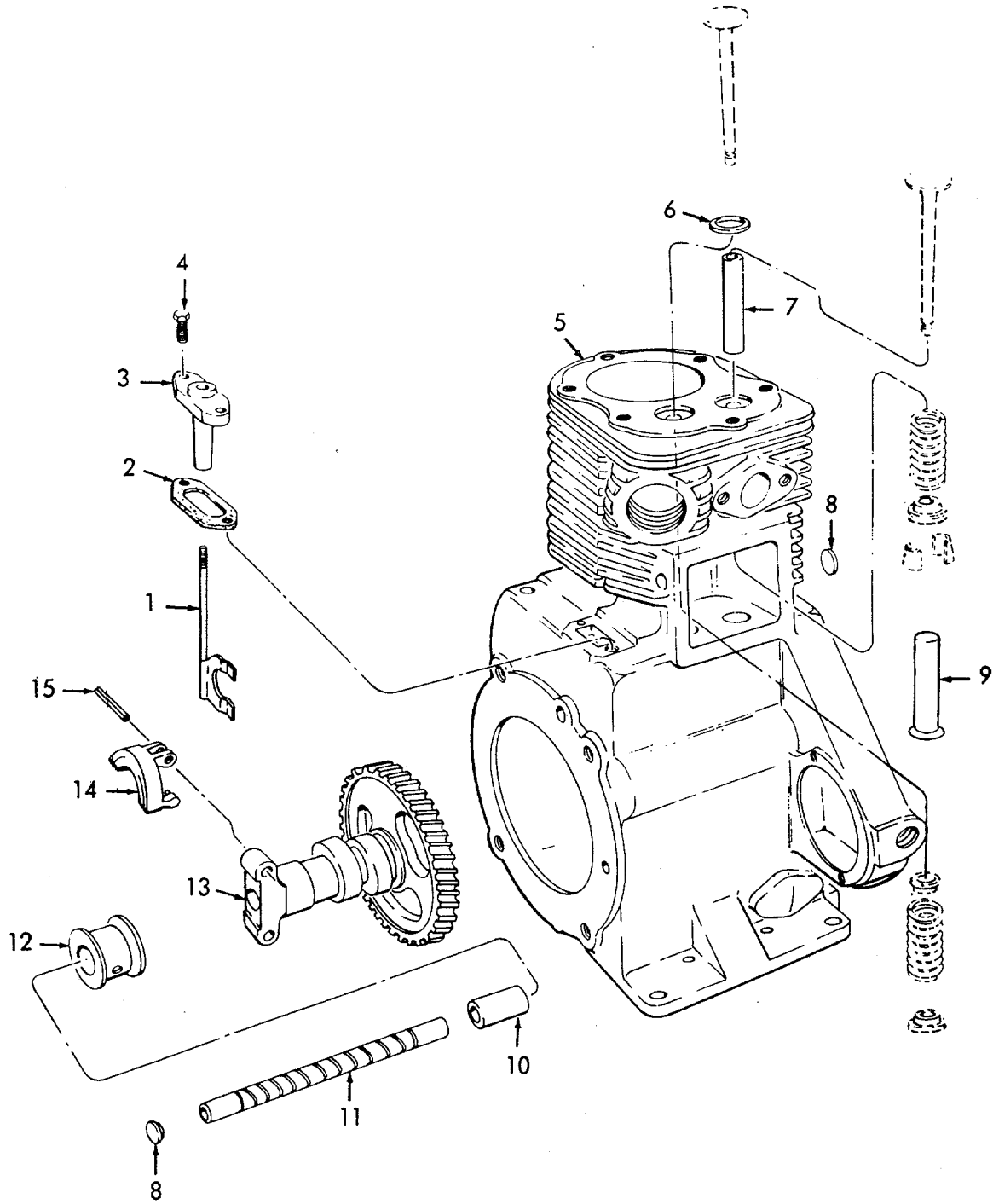
5-17. Camshaft and Governor Assembly

- a. *Removal and Disassembly.*

- (1) Remove the crankshaft (para 6-6).
- (2) Refer to figure 5-12 and remove and disassemble the camshaft and governor assembly.

- b. *Reassembly and Installation.*

- (1) Refer to figure 5-12 and reassemble and install the camshaft and governor assembly.
- (2) Install the crankshaft (para 6-6).



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Figure 5-12. Camshaft and governor assembly, removal, disassembly, reassembly, and installation

1	Governor yoke and shaft	9	Tappet, valve (2)
2	Gasket	10	Governor spacer
3	Bracket	11	Camshaft support pin
4	Screw, cap, hex-hd, 1/4-20 x 1/2 in. (2)	12	Governor. thrust sleeve
5	Cylinder crankcase	13	Camshaft assembly
6	Insert, valve exhaust	14	Governor flyweight (2)
7	Guide, valve stem (2)	15	Governor flyweight pin (2)
8	Plug, expansion (2)		

Figure 5-12-Continued

Section VIII. CYLINDER CRANKCASE

5-18. General

The cylinder crankcase is a one-piece casting which houses such components as the engine oil pump, valves, camshaft, and crankshaft. Other internal operating parts include the piston, connecting rod, and governor assembly.

5-19. Cylinder Crankcase

a. Removal.

- (1) Remove the carburetor (para. 3-41).
- (2) Remove the fuel tank (para. 3-9).
- (3) Remove the magneto and valve inspection plate (para. 3-44).
- (4) Remove the starting rope sheave (para. 3-47).
- (5) Remove the flywheel (para. 3-48).
- (6) Remove the oil fill cap and gage and oil drain (para. 3-51).
- (7) Remove the governor control and linkage (para. 3-42).
- (8) Remove the crankcase breather (para. 3-50).
- (9) Remove the deflector (para. 3-34).
- (10) Remove the engine (para. 4-19).
- (11) Remove the bearing plate (para. 5-12).
- (12) Remove the bearing retainer plate (para. 5-13).
- (13) Remove the intake and exhaust valve, seats, inserts, and guides (para. 5-8).
- (14) Remove the cranks-haft (para. 5-14).
- (15) Remove the camshaft and governor assembly (para. 5-17).

b. Cleaning, Inspection and Repair.

- (1) Clean the crankcase with an approved cleaning solvent and dry thoroughly.
- (2) Inspect for cracks, breaks, and other damage.
- (3) Replace a damaged or defective crankcase.

c. Installation.

- (1) Install the camshaft and governor assembly (para. 5-17).
- (2) Install the crankshaft (para. 5-14).
- (3) Install the intake and exhaust valves, seats, inserts, and guides (para. 5-8).
- (4) Install the bearing retainer plate (para. 5-13).
- (5) Install the bearing plate (para. 5-12).
- (6) Install the engine (para. 4-19).
- (7) Install the deflector (para. 3-4).
- (8) Install the magneto and valve inspection plate (para. 3-44).
- (9) Install the crankcase breather (para. 3-50).
- (10) Install the governor control and linkage (para. 3-42).
- (11) Install the oil fill cap and gage and oil drain (para. 3-51).
- (12) Install the flywheel (para. 3-48).
- (13) Install the starting rope sheave (para. 3-47).
- (14) Install the fuel tank (para. 3-9).
- (15) Install the carburetor (para. 3-41).

CHAPTER 6 AIR COMPRESSOR REPAIR INSTRUCTIONS

Section I. AIR COMPRESSOR BASE

6-1 General

The air compressor base is a one-piece casting mounted on the bottom of the compressor housing. It supports the compressor crankcase and provides ventilation for cooling the air compressor.

6-2. Air Compressor Base

a. Removal.

(1) Remove the air compressor (para. 4-20).

(2) Refer to figure 6-1 and remove the air compressor base.

b. Installation.

(1) Refer to figure 6-1 and install the air compressor base.

(2) Install the air compressor (para. 4-20).

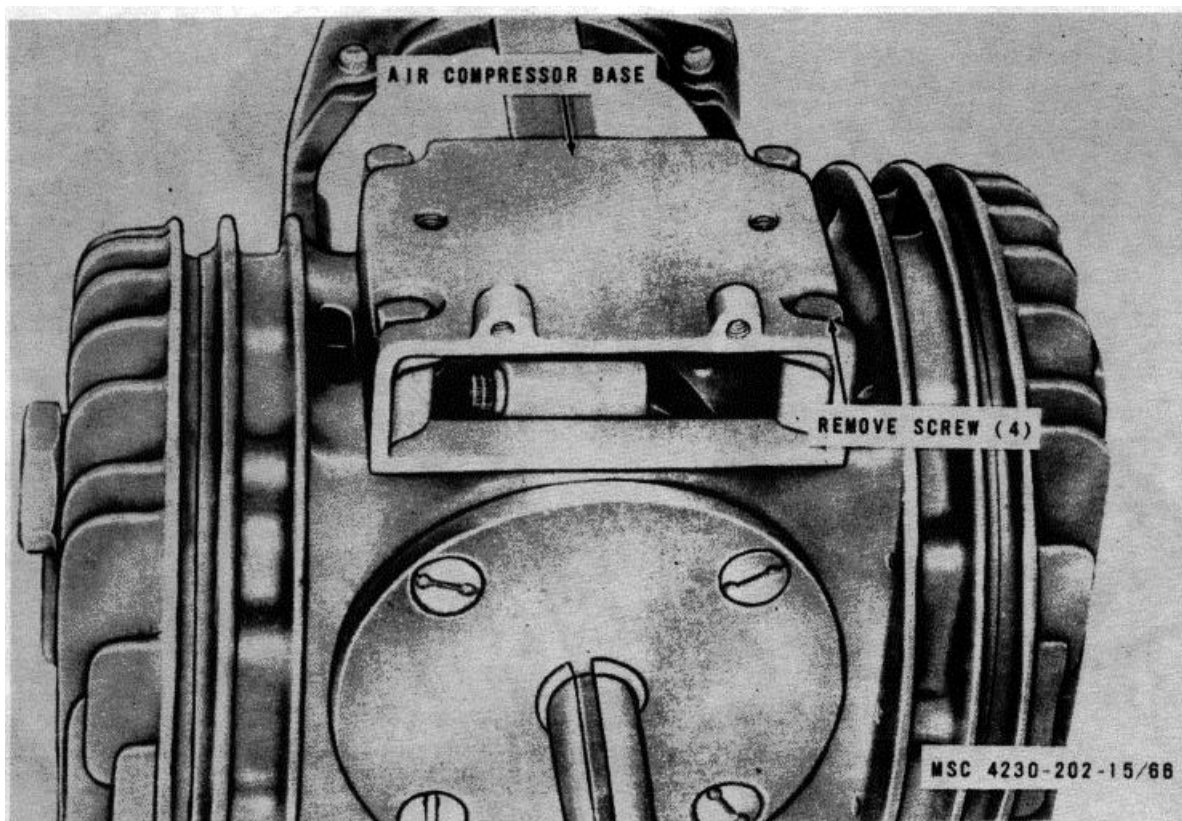


Figure 6-1. Air compressor base, removal and installation

Section II. COMPRESSOR PISTON AND BEARING CAP

6-3. General

The compressor piston and bearing cap actuate the piston diaphragms which supply air to the manifold. This section contains information on the maintenance of the piston and bearing cap.

6-4. Compressor Piston and Bearing Cap

a. Removal.

- (1) Remove the air compressor (para. 4-20).
- (2) Remove the compressor heads (para. 3-59).
- (3) Remove the compressor base (para. 6-2).

(4) Refer to figure 6-2 and remove the compressor piston, bearing caps and bearing plate.

b. *Disassembly.* Refer to figure 6-3 and disassemble the compressor piston and bearing caps.

c. *Reassembly.* Refer to figure 6-3 and reassemble the compressor pistons and bearing caps.

d. Installation.

(1) Refer to figure 6-2 and install the compressor piston and bearing caps.

- (2) Install the air compressor base (para. 6-2).
- (3) Install the compressor heads (para. 3-59).
- (4) Install the air compressor (para. 4-20).

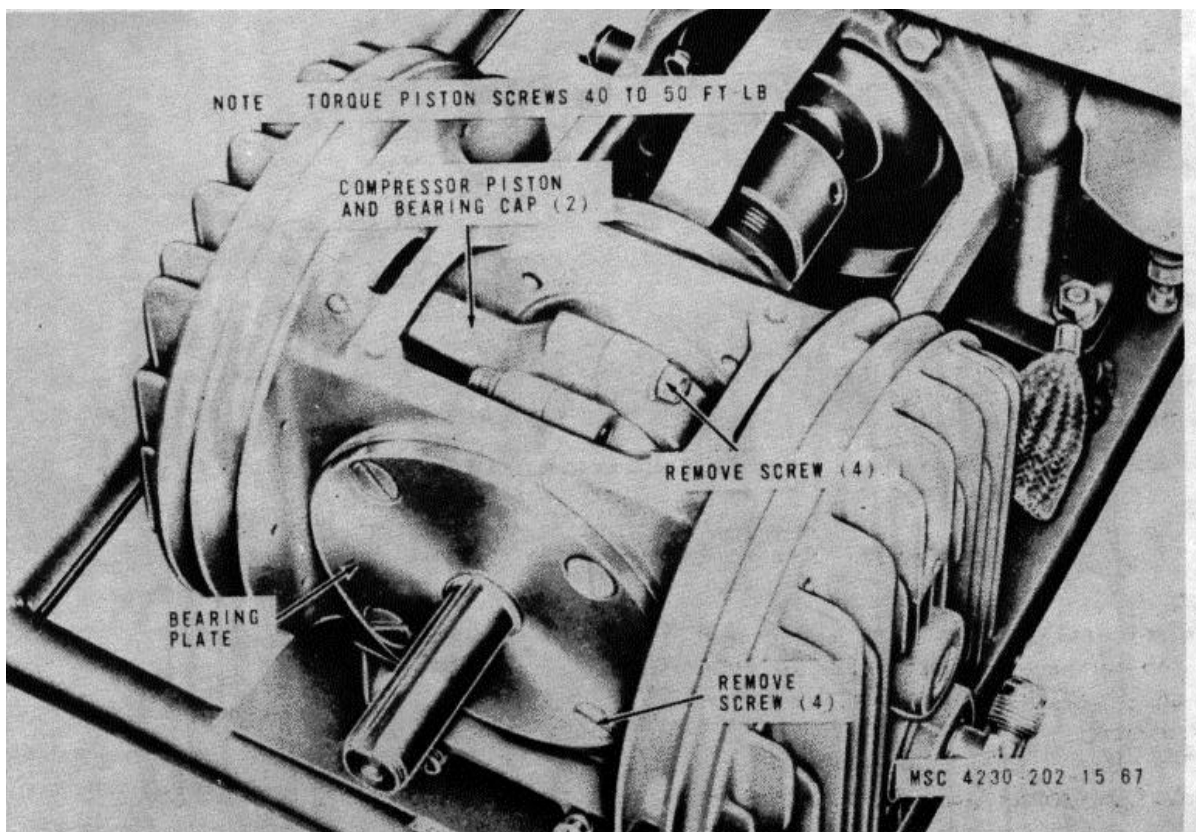
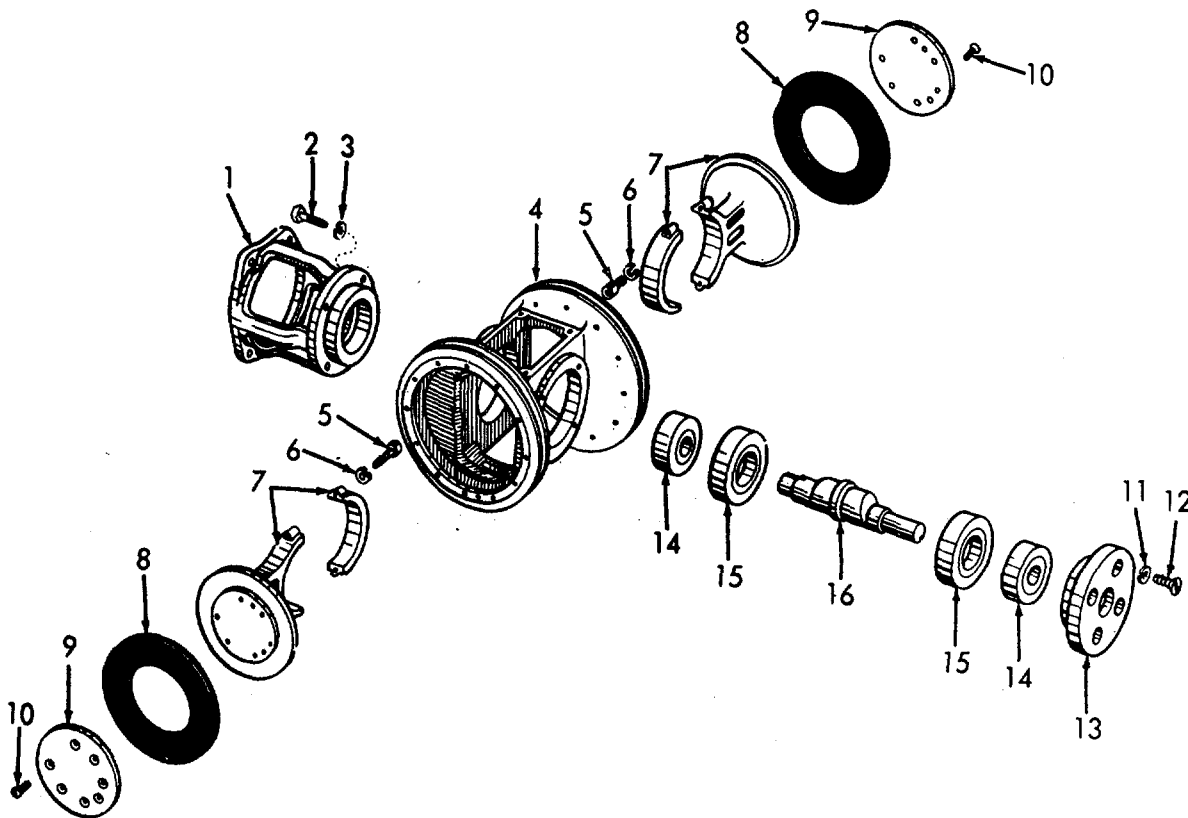


Figure 6-2. Compressor piston, bearing caps, and bearing plate, removal and installation



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- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> 1 Coupling 2 Screw, cap, hex-hd, 3/8-16 x 1 1/4 in. (4) 3 Washer, lock, 3/8 in. (4) 4 Air compressor housing 5 Screw, cap, allen-hd, 5/16-18 x 1 3/4 in. (4) 6 Washer, lock, 5/16 in. (4) 7 Bearing cap and piston (2) 8 Diaphragm (2) | <ul style="list-style-type: none"> 9 Diaphragm retainer plate 10 Screw, machine, No. 10-24 x 5/8 in. (24) 11 Washer (spec) (4) 12 Screw, machine 3/8-16 x 1 in. (4) 13 Bearing retainer 14 Bearing (2) 15 Piston bearing (2) 16 Compressor crankshaft |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Section III. COMPRESSOR CRANKSHAFT AND BEARINGS

6-5. General

The compressor crankshaft is coupled to the engine crankshaft. The compressor blower is mounted on the other end of the compressor crankshaft.

6-6. Compressor Crankshaft and Bearing

a. Removal and Disassembly.

- (1) Remove the coupling (para. 6-13).
- (2) Remove the compressor pistons and bearing caps (para. 6-4).

- (3) Refer to figure 6-3 and remove and disassemble the compressor crankshaft and bearings.

b. Reassembly and Installation.

- (1) Refer to figure 6-3 and reassemble and install the compressor crankshaft and bearings.
- (2) Install the compressor pistons and bearing caps (para. 6-4).
- (3) Install the coupling (para. 6-13).

Section IV. AIR COMPRESSOR HOUSING

6-7. General

The air compressor housing is a one-piece casting which houses the crankshaft, bearings, pistons, diaphragm, and connecting rods. This section contains maintenance instructions for the air compressor housing.

6-8. Air Compressor Housing

a. Removal.

- (1) Remove the compressor heads (para. 3-59).

- (2) Remove the blower scroll (para. 3-55).

- (3) Remove the compressor crankshaft and bearings (para. 6-6).

b. Installation.

- (1) Install the compressor crankshaft and bearings (para. 6-6).

- (2) Install the blower scroll (para. 3-55).

- (3) Install the compressor heads (para. 3-59).

Section V. DELOUSING OUTFIT FRAME

6-9. General

The delousing outfit is mounted on a tubular steel frame. The frame has a base plate welded to both sides of the bottom end members for mounting the complete unit. Steel strips are welded to the bottom of the frame for skid purposes.

6-10. Delousing Outfit Frame

a. Removal.

- (1) Remove the engine (para. 4-19).

- (2) Remove the couplings (para. 6-13).

- (3) Remove the air compressor (para. 4-20).

b. Installation.

- (1) Install the air compressor (para. 4-20).

- (2) Install the coupling (para. 6-13).

- (3) Install the engine (para. 4-19).

Section VI. COUPLING

6-11. General

The coupling assembly consists of two hubs, one with a counterweight, a flexible coupling, and an adapter. This section contains information on the maintenance of these parts.

6-12. Balance Weight

a. Removal.

- (1) Remove the compressor scroll (para. 3-55).
- (2) Remove the blower wheel (para. 3-57).
- (3) Refer to figure 6-4 and remove the compressor balance weight.

b. Installation.

- (1) Refer to figure 6-4 and install the balance weight.

- (2) Install the blower wheel (para. 3-57).

- (3) Install the scroll (para. 3-55).

6-13. Coupling and Adapter

a. Removal.

- (1) Remove the balance weight (para. 6-12).

- (2) Remove the air compressor (para. 4-20).

- (3) Refer to figure 6-5 and remove the coupling and adapter.

b. Installation.

- (1) Refer to figure 6-5 and install the coupling and adapter.

- (2) Install the air compressor (para. 4-20).

- (3) Install the balance weight (para. 6-12).

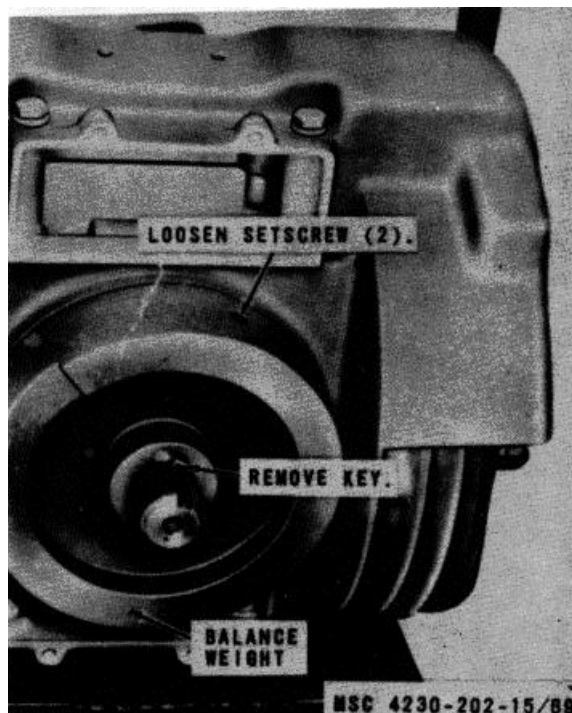


Figure 6-4. Compressor balance weight, removal and installation

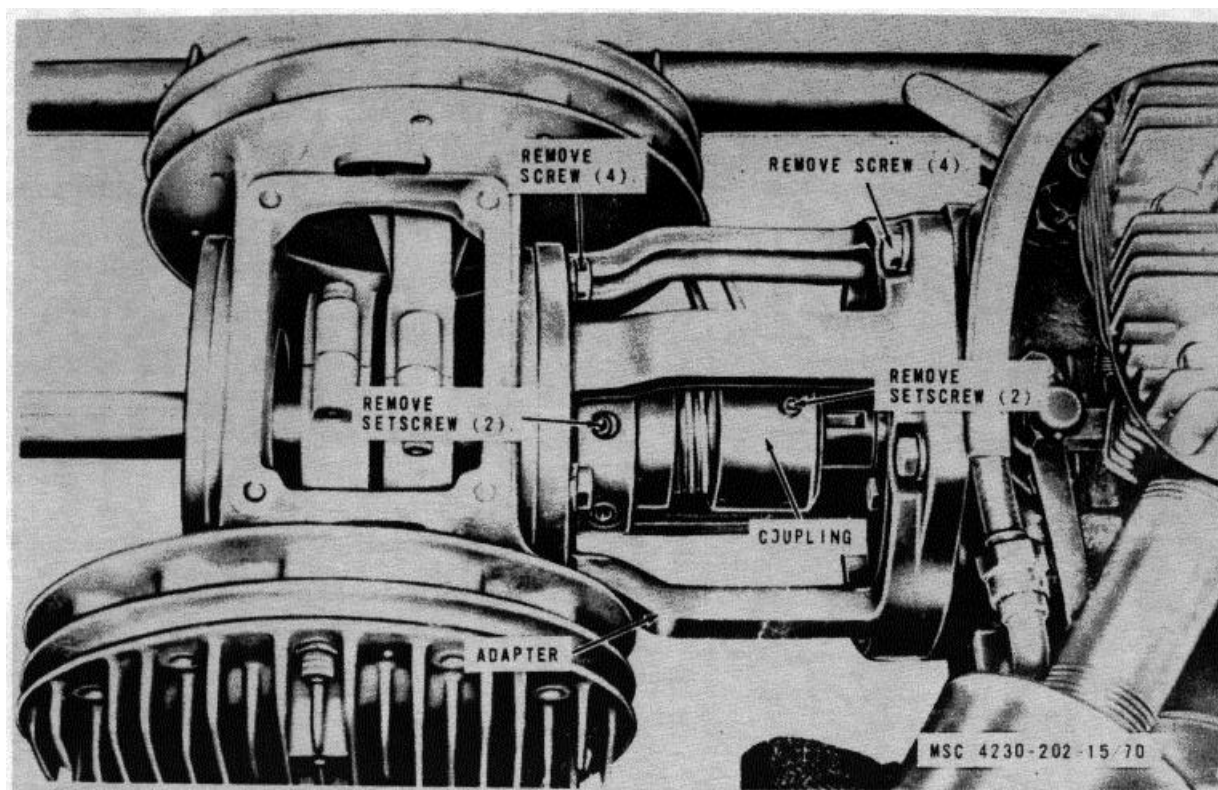


Figure 6-5. Coupling and adapter removal and installation

APPENDIX A

REFERENCES

A-1. Fire Protection

TB 5-4200-200-10

Hand Portable Fire Extinguishers Approved for Army Use

A-2. Lubrication

LO 10-4230-202-1i

Delousing Outfit; Power Driven, Gasoline Engine; with 10 Dusting Guns (John Service Co. Model 252 QM) w/Wisconsin engine; model MACND

A-3. Painting

TB 740-93-2
Storage.

Preservation of USAMEC Mechanical Equipment for Shipment and

A-4. Preventive Maintenance

TM 38-750

Army Equipment Record Procedures.

A-5. Radio Interference Suppression

TM 11-483

Radio Interference Suppression.

A-6. Shipment and Limited Storage

AR 743-505
TM 38-230

Limited Storage of Corps of Engineer's Mechanical Equipment. Preservation, Packaging, and Packing of Military Supplies and Equipment.

A-7. Federal Supply Catalog

C9100 IL

Petroleum, Petroleum-Base Products and Related Material.

APPENDIX B

BASIC ISSUE ITEMS LIST AND OPERATING SUPPLIES

Section I. INTRODUCTION

B-1. Scope

This appendix lists items which accompany the delousing outfit or are required for installation, operation, or operator's maintenance. Section II lists the accessories, tools, and publications required for the maintenance and operation by the operator, initially issued or authorized with the equipment. Section III lists the maintenance and operating supplies required for initial operation

B-2. Explanation of Columns

The following provides an explanation of columns in the tabular list in Section II:

a. Source, Maintenance and Recoverability Codes (Column 1).

- (1) Source code, column 1a, indicates the selection status and source for the listed item. Source codes are:

Code	Explanation
P	Applies to repair parts which are stocked in or supplied from the GSA/DSA Army Supply system, and authorized for use at indicated maintenance categories.
X2	Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them. Through cannibalization. If not obtainable through cannibalization, such repair parts will be requisitioned will supporting justification through normal supply channels.

- (2) Maintenance code, column 1b, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level code is:

Code	Explanation
0	Organizational maintenance (operator/crew).

- (3) Recoverability code, column 1c, indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable.

b. Federal Stock Number, column 2, indicates the Federal stock number for the item.

c. Description, column 3, indicates the Federal item name and any additional description required. A five-digit manufacturer's or other service code is shown in parentheses followed by the manufacturer's part number. Repair parts quantities included in kits, sets, and assemblies that differ from the actual quantity used in the specific items are listed in parentheses following the repair part name.

d. Unit of Issue, column 4, indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.

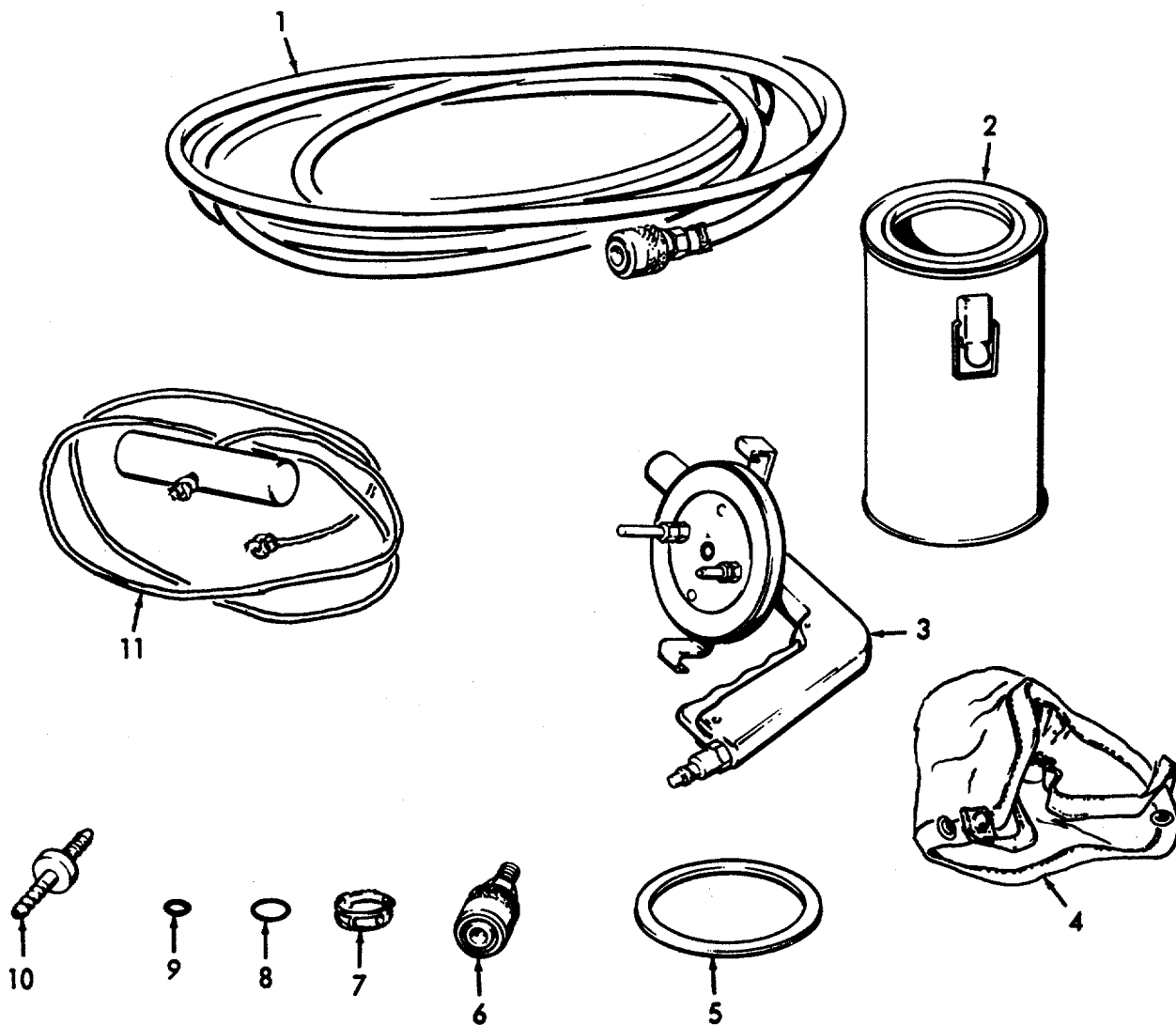
e. Quantity Incorporated in Unit Pack, column 5, indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit, column 6, indicates the quantity of the item used on the equipment

g. Quantity Authorized, column 7, indicates the total quantity of an item required to be on hand and necessary for operation and maintenance of the equipment. Items to be requisitioned as -required are indicated by an asterisk.

h. Illustration, column 8.

- (1) Figure Number, column 8a, indicates the figure number of the illustration in which the item is shown (fig. B-1).



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- | | | | |
|---|------------------------------------|----|----------------|
| 1 | Nose, air | 7 | Clamp, hose |
| 2 | Canister | 8 | Gasket, cover |
| 3 | Gun assembly w/canister and nozzle | 9 | Gasket, handle |
| 4 | Respirator | 10 | Adapter |
| 5 | Gasket, cover | 11 | Starter rope |
| 6 | Coupling, hose | | |

Figure B-1. Basic issue items

(2) Item or Symbol Number, column 8b, indicates the callout number used to reference the item in the illustration.

d. Description. The item and a brief description are shown.

B-3. Explanation of Columns Contained in Section III

a. Item. This column contains numerical sequence item numbers assigned to each component application to facilitate reference

b. Component Application. This column identifies the component application of each maintenance or operating supply item.

c. Federal Stock Number.. The Federal stock number will be shown in this column and will be used for requisitioning purposes.

e. Quantity Required for Initial Operation. This column lists the quantity of each maintenance or operating supply item required for initial operation of the equipment.

f. Quantity Required for 8 Hours Operation. Quantities listed represent the estimated requirements for an average eight hours of operation.

B-4. Federal Supply Code

Code	Manufacturer
32242_ _ _ _ _	Johnson Service Company.

Section II. BASIC ISSUE ITEMS LIST

(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)		
(a) Source	(b) Maint	(c) Recov							Federal stock number	Description	Unit of issue
				GROUP 31- BASIC ISSUE ITEMS MANUFACTURER INSTALLED							
				3100- BASIC ISSUE ITEMS, MANUFACTURER OR DEPOT INSTALLED							
P	O		4730-278-4569	ADAPTER, HOSE: 1/4 id, w/base stem (Repair Parts Manual Group 5803)			5	5	B-1	10	
X2	O			BOX, STORAGE (32242) 60-40392 (Repair Parts Manual Group 1808).			1	1	B-1		
	O		4730-977-0976	CANISTER (Repair Parts Manual Group).			10	10	B-1	2	
				CLAMP HOSE (32252) 49-22304 (Repair Parts Manual Group 5803)			10	10	B-1	7	
				COUPLING, HOSE: quick disconnect (32242) 49-15354) (Repair Parts Manual Group 5803)			5	5	B-1	6	
				DEPARTMENT OF THE ARMY LUBRICATION ORDER LO 10-4230-202-15			1	1			
				DEPARTMENT OF THE ARMY OPERATOR, ORGANIZATIONAL, FIELD AND DEPOT MAINTENANCE MANUAL INCLUDING REPAIR PARTS LIST TM 10-4230-20215			2	2			
P	O		4230-976-9264	GASKET, COVER: 2 3/4 in. od, 2 1/4 in. id, 1/16 in thk (Repair Parts Manual Group 5803)			10	10	B-1	5	
P	O		3740-065-8559	GASKET, GUN: 9/16 in. od, 7/16 in. id, 1/16 in. thk (Repair Parts Manual Group 5803)			10	10	B-1	8	
P	O		5330-015-6267	GASKET, HANDLE: 1/4 in. od, 1/8 in. id, 1/16 in. thk (Repair Parts Manual Group 5803)			10	10	B-1	9	
P	O		4730-977-0969	GUN ASSEMBLY W/CANISTER AND NOZZLE(Repair Parts Manual Group 5803)			2	2	B-1	3	
P	O			HOSE, AIR (32242) 39-16656 (Repair Parts Manual Group 5803)			2	2	B-1	1	
P	O		5120-223-7396	PLIERS, SLIP JOINT: 6 in. lg			1	1			

Section II. BASIC ISSUE ITEMS LIST

(1)			(2) Federal stock number	(3) Description	(4) Unit of issue	(5) Qty Inc in unit pack	(6) Qty no in unit	(7) Qty auth	(8) Illustration	
(a) Source	(b) Maint	(c) Recov							(a) Fig no	(b) Item or sym no
				31-Continued						
P	O			RESPIRATOR (Repair Parts Manual Group 5803)						
P	O		5120-277-9491	SCREWDRIVER, FLAT TIP: wood handle, flared tip, 1/4 in. w, 4 in. lg blade.			2	2	B-1	4
P	O		2990-618-6556	STARTER ROPE, ENGINE (Can be manufactured from: CORD, COTTON; Stock No. 4020-241-8439) (Repair Parts Manual Group 0107)			1	1	B-1	11
				GROUP 32-BASIC ISSUE ITEMS, TROOP INSTALLED			1	1		
				3200-BASIC ISSUE ITEMS, TROOP INSTALLED OR AUTHORIZED						
P	O		7520-559-9618	CASE, MAINTENANCE AND OPERATIONAL MANUALS: cotton duct, water repellent, mildew resistant			*	1		
P	O		4210-893-1092	EXTINGUISHER, FIRE, DRY CHEMICAL charged, hand pressurized w/dry air or nitrogen gas; w/pressure gauge; squeeze grip control; steel cylinder; enameled red; factory mutual or UL approved, class 4-B, C; 2 1/2 lb; w/universal bracket (Repair Parts Manual Group 7603) (GE)			*	1		
P	O		5120-264-3796	WRENCH, OPEN END ADJUSTABLE: single head, 0 to 15/16 in. jaw opening, 12 in. lg.			*	1		

Section III. MAINTENANCE AND OPERATING SUPPLIES

Item	Component application	Source of supply	Federal stock number	Description	Quantity required for initial operation	Quantity required for 8 hours operation	Notes
1	0101-CRANK CASE (1)		9150-265-9435(2) 9150-265-9248(2) 9150-242-7603 (2)	OIL, LUBRICATING: 5 gal pails as follows: OE-30 OE-10 OES	1 qt. 1 qt. 1 qt	(3) (3) (3)	(1) Includes quantity of oil to fill engine oil system as follows: 1 qt.-crankcase 5/32 qt-air cleaner (2) See C9100-SL for additional data and requisitional data and requisitioning procedure. (3) See current LO for grade application and replenishment intervals.
2	0304-AIR CLEANER			OIL, LUBRICATING: (4) OE-30 OE-10 OES	5/32 qt. 5/32 qt. 5/32 qt.	(3) (3) (3)	(4) Use oil as prescribed in item 1. (5) Tank capacity.
3	0306--TANK, FUEL		9130-160-1818 9130-160-1830	FUEL, GASOLINE: bulk as follows: Automotive, combat 91A Automotive, combat 9/C	1 gal (5) 1 gal (5)	3 gal (6) 3 gal (6)	(6) Average fuel consumption is 3.75 gal per hour of continuous operation.

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C-1. General

a. Section I provides a -general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. Section II designates overall responsibility for the performance of maintenance operations on the identified end item or component. The implementation of the maintenance tasks upon the end item or component will be consistent with the assigned maintenance operations.

c. Section III lists the special tools and test equipment required for each maintenance operation as referenced from Section II.

d. Section IV contains supplemental instructions, explanatory notes and/or illustrations required for a particular maintenance function.

C-2. Explanation of Columns in Section II

a. *Functional Group Number.* The functional group is a numerical group set up on a functional basis. The applicable functional grouping indexes are listed on the MAC in the appropriate numerical sequence. These indexes are normally set up in accordance with their function and proximity to each other.

b. *Component Assembly Nomenclature.* This column contains a brief description of the components of each functional group.

c. *Maintenance Operations and Maintenance Levels.* This column lists the various maintenance operations (A through J) and indicates the lowest maintenance level authorized to perform these operations. The symbol designations for the various maintenance levels are as follows:

- C-Operator or crew
- O-Organizational maintenance
- F-Direct support maintenance
- H-General support maintenance
- D-Depot maintenance

The maintenance operations are defined as follows:

- A-SERVICE Operations required periodically to keep the item in proper operating condition, i.e., -to clean, preserve, drain, paint, and replenish fuel, lubricants, hydraulic, and deicing fluids, or compressed air supplies.
- B-ADJUST Regulate periodically to prevent malfunction. Adjustments will be made commensurate with adjustment procedures and associated equipment specifications.
- C-ALINE Adjust two or more components of an electrical or mechanical system so that their functions are properly synchronized or adjusted.
- D--CALIBRATE Determine, check, or rectify the graduation of an instrument, weapon, or weapons system or components of a weapons system.
- E-INSPECT Verify serviceability and detect incipient electrical or mechanical failure by close visual examination.
- F-TEST Verify serviceability and detect incipient electrical or mechanical failure by measuring the mechanical or electrical characteristics of the item

and comparing those characteristics with authorized standards. Tests will be made commensurate with test procedures and with calibrated tools and/or test equipment referenced in the MAC.

J-REBUILD Restore to a condition comparable to new by disassembling to determine the condition of each component part and reassembling using serviceable, rebuilt, or new assemblies, subassemblies, and parts.

G-REPLACE Substitute serviceable components, assemblies and subassemblies for unserviceable counterparts or remove and install the same item when required for the performance of other maintenance operations.

c. Reference Note. This column, subdivided into column K and L, is provided for referencing the Special Tools and Test Equipment Requirements (Sec. III) and Remarks (Sec. IV) that may be associated with maintenance operations (Sec. II).

H-REPAIR Restore to a serviceable condition by replacing unserviceable parts or by any other action required using available tools, equipment and skills--to include welding, grinding, riveting, straightening, adjusting and facing.

C-3. Explanation of Columns in Section III

a. Reference Code. This column consists of a number and a letter separated by a dash. The number references the T & TE requirements column on the MAC. The letter represents the specific maintenance operation the item is to be used with. The letter is representative of columns A through J on the MAC.

I-OVERHAUL Restore an item to a completely serviceable condition (as prescribed by serviceability standards developed and published by the commodity commands) by employing techniques of "Inspect and Repair Only as Necessary" (IROAN). Maximum use of diagnostic and test equipment is combined with minimum disassembly during overhaul. "Overhaul" may be assigned to any level of maintenance except organizational, provided the time, tools, equipment, repair parts authorization, and technical skills are available at that level. Normally, overhaul as applied to end item, is limited to depot maintenance level.

b. Maintenance Level. This column shows the lowest level of maintenance authorized to use the special tool or test equipment.

c. Nomenclature. This column lists the name or identification of the tool or test equipment.

d. Tool Number. This column lists the manufacturer's code and part number, or Federal stock number, of tools and test equipment.

C-4 Explanation of Columns in Section IV

a. Reference Code. This column consists of two letters separated by a dash, both of which are references to Section II. The first letter references column L and the second letter references a maintenance operation, Column A through J.

b. Remarks. This column lists information pertinent to the maintenance operation being performed, as indicated on the MAC Section II.

Section II. MAINTENANCE ALLOCATION CHART

Functional group No.	Component assembly nomenclature	Essentiality	Maintenance operations										Maintenance levels		Note ref		
			A	B	C	D	E	F	G	H	I	J	K	L	T&TE RQMT	Remarks	
			Service	Adjust	Align	Calibrate	Inspect	Test	Replace	Repair	Overhaul	Rebuild					
01	ENGINE																
0100	Engine Assembly -----		C				C	O	F	O	H						A
0101	Crankcase, Block, Cylinder Head: Cylinder and crankcase assembly ----- Cylinder head, engine -----						O		F	F							
0102	Crankshaft -----								F								
0103	Flywheel Assembly -----								F								
0104	Pistons, Connecting Rods -----								F								
0105	Valves, Camshafts, and Timing System: Valves, intake and exhaust ----- Camshaft, engine ----- Tappets and rotators ----- Plate, valve tappet ----- Insert, valve seat -----								F	F							B
0106	Engine Lubrication System: Gage, oil level, bayonet ----- Base, engine, oil pan ----- Strainer, element, sediment ----- Breather ----- Pump, lubrication -----			C					F								
0107	Engine Starting System: Pulley, engine starting ----- Rope, engine starter -----								C								
03	FUEL SYSTEM																
0301	Carburetor -----		O	C					O								C
0304	Air Cleaner -----		C						O								
0306	Tanks, Lines, Fittings: Strainer, fuel tank ----- Tank, fuel -----								O								
0308	Engine Speed Governor and Controls: Control assembly, governor ----- Flywheel assembly, governor -----				O				F	F							
0309	Fuel Filters: Strainer, sediment, fuel -----								O								O
04	EXHAUST SYSTEM																
0401	Muffler and Pipes -----								O								
05	COOLING SYSTEM																
0502	Cowling, Deflectors, Air Ducts, Shrouds: Shroud assembly, air ----- Plate, deflector heat ----- Screen, air -----									O	O	O					
06	ELECTRICAL SYSTEM																
0605	Ignition Components: Spark plug ----- Magneto assembly -----			O	O				O	O	O						E
0615	Radio Interference Suppression: Strap, bond -----								O								

Functional group No.	Component assembly nomenclature	Essentiality	Maintenance operations										Maintenance levels				Note ref	
			A	B	C	D	E	F	G	H	I	J	K	L	T&E RQMT	Remarks		
			Service	Adjust	Align	Calibrate	Inspect	Test	Replac.	Repair	Overhaul	Rebuild						
15	FRAME																	
1501	Frame Assembly -----											O						
18	BODY, CAB, HOOD AND HULL																	
1808	Boxes -----											O						
22	BODY CHASSIS OR HULL, AND ITEMS																	
2210	Date Plates:																	
	Plate, instruction -----											O						
47	GAGES (NON-ELECTRICAL) WEIGHTING AND MEASURING DEVICES																	
4702	Gages, Mountings, Lines, and Fittings -----											O						
50	PNEUMATIC EQUIPMENT																	
5000	Air Compressor Assembly -----											F	F	F				
5001	Block, Cylinder Head:																	
	Housing, Compressor -----											F	F	F				
	Head, Cylinder -----											O	F	F				
5002	Crankshaft -----												F	F				
5003	Flywheel Assembly -----												F	F				
5004	Pistons, Connecting Rods, and Rotors:																	
	Pistons, Compressor -----												O	F				
	Diaphragm, compressor -----												O	O				
5005	Valves:																	
	Valve, discharge -----												O	O				
	Valve, inlet -----												O	O				
5007	Compressor Drive -----												F	O				
5008	Air Intake:																	
	Cleaner, air -----		C										O	O				
5010	Compressor Coolings and Heating:																	
	Shroud, cover, screen, scroll -----												O	O				
	Wheel assembly, blower -----												O	O				
5015	Air Discharge System:																	
	Bracket, clamp, and safety valve -----												O	O				
	Manifold, discharge -----												O	O				
58	SANITATION, FUNICATION AND DECONTAMINATION EQUIPMENT COMPONENTS																	
5803	Decontamination Equipment Components:																	
	Dusting gun assembly -----												O	O				
76	FIRE FIGHTING EQUIPMENT COMPONENTS																	
7603	Fire Extinguishers:																	
	Extinguisher, fire -----												O					

Section II. SPECIAL TOOL AND SPECIAL TEST EQUIPMENT

REQUIREMENTS

Reference code	Maintenance level	Nomenclature	Tool number
		No special tools or test equipment required.	

Section III. REMARKS

Reference code	Remarks
A-F	Test includes engine operation and compression.
B-H	Repair of valves includes refacing.
C-A	Service of carburetor includes replacing bowl gasket.
D-A	Service of filter includes replacing glass bowl and bowl gaskets.
E-H	Repair of organizational includes replacing contact set and condenser.

APPENDIX D
ORGANIZATIONAL, DIRECT AND GENERAL SUPPORT
AND DEPOT MAINTENANCE REPAIR PARTS

Section I. INTRODUCTION

D-1. Scope

This manual contains a list of repair parts required for the performance of organizational, direct support, general support, and depot maintenance of the Delousing Outfit.

D-2. General

This repair parts list is divided into five principal sections and a Federal Stock Number index.

a. *Section II: Prescribed Load Allowance List (PLA).* A consolidated listing of repair parts quantitatively allocated for initial stockage at the organizational level. *This is a mandatory minimum stockage allowance.*

b. *Section III: Repair Parts For Organizational Maintenance.* A list of repair parts authorized for the performance of maintenance at the organizational level.

c. *Section IV: Repair Parts For DS, GS, and Depot Maintenance.* A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.

d. *Section V: Federal Stock Number and Manufacturer's Part Number Index.* An index of Federal stock numbers and manufacturer's part numbers to page and manufacturer's codes.

e. *Section VI:* Allowances are based on 400 hours operation per year.

D-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists.

a. Source, Maintenance, and Recoverability Codes.

(1) Source Code indicates the selection status and source for the listed item. Source codes used are:

Code	Explanation
P	Applied to repair parts which are stocked in or supplied from DSA/GSA or Army supply system, and authorized for use at indicated maintenance categories.
M	Applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
X1	Applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of the next higher assembly or components.
X2	Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.

(2) Maintenance Code indicates the lowest category of maintenance authorized to maintain the listed item. The maintenance level codes are:

Code	Explanation
0	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance

(3) Recoverability Code indicates whether unserviceable items should be returned for recovery or salvage.

Items not coded are expendable. The recoverability code is:

Code	Explanation
R	Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.

b. Federal Stock Number indicates the Federal stock number for the item.

c. Description column indicates the Federal item name and a brief description of the item. A five-digit manufacturer's or other service code is shown in parentheses followed by the manufacturer's part number. Repair parts quantities included in kits, sets, and assemblies that differ from the actual quantity used in the specific item, are listed in parentheses following the repair part name.

d. Unit of Issue indicates the unit used as a basis of issue, e.g., ea, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit indicates the actual number of parts used in the application. A zero is shown when components of kits or sets are listed that are not applicable to the specific end item.

g. Fifteen-Day Organizational Maintenance Allowance.

- (1) The allowance columns are divided into four subcolumns. Indicated, in each subcolumn is the quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

- (3) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to Mobility Equipment Command for exception or revision to the allowance list. The range of items authorized will be made -by this command based up on engineering experience, demand data, or TAERS information.

h. Thirty-Day DS/GS Maintenance Allowance.

- (1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn is the quantity of items authorized for a number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

i. One-Year Allowances Per 100 Equipments/Contingency Planning Purposes indicates the quantity of items required for distribution and contingency planning purposes.

j. Depot Maintenance Allowance Per 100 Equipments indicates the total quantity of items recommended for depot maintenance of 100 equipments. Items recommended for immediate use only are identified with an asterisk in the allowance column.

k. Illustration.

- (1) Figure Number indicates the figure number of the illustration in which the item is shown.
- (2) Item or Symbol Number indicates the callout number used to reference the item in the illustration.

D-5. Instructions for Locating Repair Parts

a. When Federal Stock Number or manufacturer's part number is unknown.

- (1) *First.* Using the index of contents, determine the functional group or subgroup, i.e., engine.

engine assembly, transmission, transmission assembly, within which the repair part belongs. Locate the appropriate page in the manual and identify the part.

- (2) *Second.* Locate the repair part and the illustration figure and item number as shown in the last two columns of the repair parts listing.
- (3) *Third.* Identify the repair part on the illustration.

b. When Federal Stock Number of manufacturer's part number is known.

- (1) *First.* Use the index to locate the Federal Stock Number or manufacturer's part number. This index is arranged in alphanumeric sequence cross-referenced to page number and manufacturer's code.
- (2) *Second.* Refer to the appropriate page in the parts listing. Locate the repair part and the illustration figure and item number as shown in the last two columns of the parts listing.

D-6. Abbreviations

co.....coil
 dia.....diameter

ea..... each
 ft..... foot (feet)
 in..... inch
 mtg..... mounting
 od..... outside diameter
 rl roll
 thk..... thick (ness)
 w wide (width)
 yd..... yard

D-7. Index of Federal Supply Codes

Codes	Manufacturers
29670	Hudson, H. D. Mfg. Co.
30327	Imperial Brass Mfg. Co.
32242	Johnson Service Co.
43334	New Departure Div. of General Motors Corp.
60038	Timken Roller Bearing Co.
66289	Wisconsin Motor Corp.
75336	Kingston, F. C., Co.
78189	Shakeproof Division of Illinois Tools Works
78480	Tilloston Mfg. Co.
79470	Weatherhead Co., The
79960	Zenith Carburetor Div. of Bendix Corp.
80749	United Specialties Co.
81966	Marsh Instrument Co.
82796	Fairbanks Morse and Co., Beloit Works Division
94894	Milton Manufacturing Co., The
96906	Military Standards

Section II. PRESCRIBED LOAD ALLOWANCE

(1) Federal stock no.	(2) Description	(3) 15-day org maint alw			
		(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
2990-618-6556	STARTER ROPE, ENGINE (66289) U268	*	*	*	2
2910-594-9067	GASKET SET: carburetor service (79960) C181-296	*	*	*	2
	KIT STRAINER (66289) LQ32	*	*	*	2
2920-893-6031	PARTS KIT, IGNITION (82796) 2K79	*	*	*	2
2920-810-7082	SPARK PLUG: shielded (96906) MS51009-1	*	2	2	2
4310-790-6351	DIAPHRAGM, COMPRESSOR (32242) 60-34823	*	2	2	2
5330-842-6535	GASKET: outlet valve (32242) 60-34859	*	2	2	4
4310-790-6355	VALVE, DISCHARGE: compressor (32242) 63-34828	*	*	*	2
4310-015-6182	VALVE, INLET: compressor (32242) 61-38216	*	*	*	2
5340-820-0036	DISK, SOLID, PLAIN: cleaner (32242) 60-1256	*	2	2	4
	GASKET: canister cover (29670) 952-200	2	5	10	21
5330-248-3838	PACKING, PREFORMED: air inlet and outlet tube to handle (96906) MS29513-13	4	10	20	42
4230-977-0974	TUBE ASSEMBLY, DISCHARGE (29670) 940-630	*	*	2	2
4230-977-0970	VALVE ASSEMBLY, TRIGGER (29670) 940-660	*	*	2	2
3740-065-8559	GASKET: body (29670) 805-308	2	5	10	21
5330-252-6048	PACKING, PREFORMED, CAP (96906) MS29513-6	2	5	10	21

LINE NO.	(1) SOURCE AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUS-TRATION			
	(a) SOURCE	(b) MAIN.	(c) RECOV.						MANUFACTURER'S		(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(e) FIG. NO.	(f) ITEM OR SYM. NO.
									CODE	PART NUMBER						
0001					SECTION 3 - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE											
0002					Group 01 - ENGINE											
0003					0100 - ENGINE ASSEMBLY											
0007	P			2805-722-1169	GASKET SET: ENGINE OVERHAUL	EA		1	*	*	*	*				
0008	X1			2805-244-8184	GASKET: BEARING RETAINER PLATE, FLYWHEEL END	EA		1	SEE GRP 0102							
0009	X1			2910-329-1471	GASKET: CARBURETOR MTG	EA		1	SEE GRP 0301							
0010	X1			2805-707-0414	GASKET: CYLINDER HEAD	EA		1	SEE GRP 0101							
0011	X1			2805-376-0398	GASKET: ENGINE BASE	EA		1	SEE GRP 0106							
0012	X1			2920-047-4530	GASKET: MAGNETO MTG	EA		1	SEE GRP 0605							
0013	X1			2805-527-7604	GASKET: MAIN BEARING PLATE, TAKE-OFF END (AS REQUIRED)	EA		5	SEE GRP 0102							
0014	X1			5330-376-1249	GASKET: MAIN BEARING PLATE, TAKE-OFF END (2) (AS REQUIRED)	EA		1	SEE GRP 0102							
0015	X1			5330-376-0397	GASKET: VALVE TAPPET PLATE	EA		1	SEE GRP 0105							
0016	X1			2805-376-0403	GASKET: YOKE BRACKET MTG	EA		1	SEE GRP 0308							
0023					0101 - CRANKCASE, CYLINDER HEAD											
0024		0		5306-206-4344	BOLT, MACHINE: HEAD MTG	EA		3	*	*	*	*	D1	3		
0025		0		5306-298-4781	BOLT, MACHINE: HEAD MTG	EA		5	*	*	*	*	D1	2		
0038	P			2805-792-9760	CYLINDER HEAD, GASOLINE ENGINE	EA		1	*	*	*	*	D1	5		
0039	X1			2805-707-0414	GASKET: CYLINDER HEAD (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	EA		1	*	*	*	*	D1	6		
0041		0		4730-366-6256	PLUG, PIPE: TIMING INSPECTION	EA		1	*	*	*	*	D1	12		
0042		0		5307-286-0334	STUD, PLAIN: CARBURETOR MTG	EA		2	*	*	*	*	D5	8		
0043		0		5310-366-6294	WASHER, FLAT: HEAD MTG	EA		7	*	*	*	*	D1	4		
0044		0		5310-596-4911	WASHER, LOCK: CYLINDER HEAD MTG	EA		1	*	*	*	*	D1	1		
0069					0103 - FLYWHEEL ASSEMBLY											
0070	X2	0		2805-376-0395	FLYWHEEL, ENGINE	EA		1	*	*	*	*	D8	1		
0085					0105 - VALVES, CAMSHAFTS, AND TIMING SYSTEM											
0096	X2	0		2805-376-0416	PLATE: VALVE TAPPET	EA		1	*	*	*	*	D1	20		
0098	X2	0			SCREW, CAP, HEXAGON HEAD: VALVE TAPPET PLATE MTG	EA		1	*	*	*	*	D1	22		

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUS-TRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(u) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER						
0105		0		5310-285-8538	WASHER, FLAT: VALVE TAPPET COVER MTG	EA		1	*	*	*	*	D1	21		
0106					0106 - ENGINE LUBRICATION SYSTEM											
0109	P	0		2805-790-7778	BREATHER, CRANKCASE	EA		1	*	*	*	*	D1	25		
0111	X2	0		4730-187-7611	COUPLING, PIPE: OIL DRAIN	EA		1	*	*	*	*	D1	14		
0112	X2	0		6680-790-6346	GAGE, ROD-CAP, LIQUID LEVEL	EA		1	*	*	*	*				
0113	X2	0		4510-919-3101	BODY, OIL FILLER	EA		1	*	*	*	*	D1	10		
0114	P	0		6680-718-7016	GAGE, FILLER, OIL	EA		1	*	*	*	*	D1	8		
0115	X2	0		2805-919-3602	GASKET: FILLER CAP	EA		1	*	*	*	*	D1	9		
0116	X2	0			NIPPLE, PIPE: OIL FILLER	EA		1	*	*	*	*	D1	11		
0118	X2	0			NIPPLE, PIPE: OIL DRAIN	EA		1	*	*	*	*	D1	15		
0120		0		4730-010-3867	PLUG, PIPE: OIL DRAIN	EA		1	*	*	*	*	D1	13		
0138					0107 - ENGINE STARTING SYSTEMS											
0139	X2	0		2990-422-6161	PULLEY, ENGINE STARTER	EA		1	*	*	*	*	D8	8		
0140	P	0		2990-618-6556	STARTER ROPE, ENGINE (CAN BE MANUFACTURED FROM CORD, Stock No. 4020-241-8439)	EA		1	*	*	*	2	D8	9		
0141		0		5310-012-1574	WASHER, LOCK: STARTER PULLEY MTG	EA		1	*	*	*	*	D8	7		
0142					GROUP 03 - FUEL SYSTEM											
0143					0301 - CARBURETOR											
0144	P	0		2910-358-4516	CARBURETOR, FUEL (INCLUDES COMPONENTS OF GASKET SET, Stock No. 2910-594-9067)	EA		1	*	*	*	*	D5	6		
0145	P	0		2910-594-9067	GASKET SET: CARBURETOR SERVICE	EA		1	*	*	*	2	D5	9		
0146	X1			2910-329-0149	GASKET: BOWL	EA		1					D5	7		
0147	X1			2910-239-1471	GASKET: CARBURETOR MTG (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	EA		1					D5	7		
0148		0		5310-637-1056	NUT, PLAIN, HEXAGON: CARBURETOR MTG	EA		2	*	*	*	*	D5	10		
0149					0304 - AIR CLEANER											
0150	X2	0		2940-718-6031	CLEANER, AIR	EA		1	*	*	*	*	D5	12		
0151	X2	0			BAFFLE	EA		1	*	*	*	*	D5	2		
0152	X2	0			BAIL	EA		1	*	*	*	*	D5	14		
0153	X2	0			BODY	EA		1	*	*	*	*	D5	3		
0154	X2	0			BRACKET ASSEMBLY: CLEANER MTG	EA		1	*	*	*	*	D5	13		
0155	X2	0		2940-423-3292	BRACKET, OIL CUP	EA		1	*	*	*	*	D5	1		
0156	X2	0			CUP, OIL	EA		1	*	*	*	*	D5	1		
0157	X2	0			FILTER, AIR	EA		1	*	*	*	*	D5	11		

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUS-TRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ILLUS. OR SYM. NO.
									CODE	PART NUMBER						
0158	M	O		2910-447-9260	GASKET; BRACKET ASSEMBLY MANUFACTURE FROM: PAPER, GASKET (1 IN. X 2 IN. REQUIRED)	EA		1						D5	5	
0158A	P	O		5330-233-5847		YD				SEE GRP 9501						
0159		O		5305-208-8860	SCREW, MACHINE: BRACKET ASSEMBLY	EA		1	*	*	*	*	*	D5	4	
0160		O		5305-044-3896	SCREW, MACHINE: STRAP MTG	EA		1	*	*	*	*	*	D5	18	
0161	X2	O			SPACER, STRAP	EA		1	*	*	*	*	*	D5	15	
0162	X2	O			STRAP, SUPPORT	EA		1	*	*	*	*	*	D5	16	
0163		O		5310-261-7341	WASHER, LOCK: STRAP MTG	EA		1	*	*	*	*	*	D5	17	
0164					0306 TANKS, LINES, FITTINGS.											
0165		O		5306-207-9158	BOLT, MACHINE: FUEL TANK BRACKET MTG	EA		2	*	*	*	*	*	D6	8	
0166	X2	O			BRACKET, FUEL TANK	EA		1	*	*	*	*	*	D6	6	
0167	X2	O		2910-740-3354	STAND PIPE: FUEL TANK	EA		1	*	*	*	*	*	D5	16	
0168	X2	O		2910-672-1914	STRAP, TANK MOUNTING	EA		2	*	*	*	*	*	D6	1	
0169	X2	O		2910-740-3350	TANK, FUEL, ENGINE	EA		1	*	*	*	*	*	D6		
0170	X2	O		5340-974-9537	RING, RETAINING	EA		1	*	*	*	*	*	D6	4	
0171	X2	O		4730-812-4303	STRAINER, ELEMENT	EA		1	*	*	*	*	*	D6	3	
0172	X2	O		2910-740-3352	TANK, FUEL, ENGINE	EA		1	*	*	*	*	*	D6	2	
0173	P	O		2910-814-5972	CAP, FUEL TANK	EA		1	*	*	*	*	*	D6	5	
0174	M	O		2910-447-9287	TUBE ASSEMBLY, METAL: FUEL LINE MANUFACTURE FROM: ELBOW, PIPE TO TUBE	EA		1	*	*	*	*	*	D6	9	
0174A		O		4730-741-0349	NUT, TUBE COUPLING	EA		2	*	*	*	*	*		10	
0174B		O		4730-011-6452	TUBE, COPPER (15 IN. REQUIRED)	FT		2	*	*	*	*	*			
0174C	P	O		4710-277-5525						SEE GRP 9501						
0176					0308 - ENGINE SPEED GOVERNOR AND CONTROLS											
0177	P	O		2990-383-9339	CONTROL ASSEMBLY, GOVERNOR	EA		1	*	*	*	*	*			
0178	X1	O		2990-536-2962	BLOCK	EA		1	*	*	*	*	*	D7	2	
0179	X1	O		2990-353-5961	BRACKET, CONTROL	EA		1	*	*	*	*	*	D7	9	
0180	X1	O		5310-010-3092	NUT, PLAIN, HEXAGON: ADJUSTING SCREW	EA		1	*	*	*	*	*	D7	7	
0181	X1	O		5305-010-0752	SCREW, MACHINE: BRACKET ADJUSTING	EA		1	*	*	*	*	*	D7	8	
0182	X1	O		5305-011-3989	SCREW, MACHINE: BRACKET MTG	EA		1	*	*	*	*	*	D7	5	
0183	X1	O		5310-198-9348	WASHER, FLAT: BLOCK MTG	EA		1	*	*	*	*	*	D7	4	
0184	X1	O			WASHER, LOCK: MTG SCREW	EA		1	*	*	*	*	*	D7	6	
0185	X1	O		5330-841-2729	WASHER, NONMETALLIC: BRACKET SPACING	EA		1	*	*	*	*	*	D7	10	
0186	X1	O		2990-424-2835	LEVER, GOVERNOR CONTROL	EA		1	*	*	*	*	*	D7	3	
0187		O		5315-584-1676	PIN, COTTER: WASHER MTG	EA		1	*	*	*	*	*	D7	12	
0188	X1	O		5315-265-9197	PIN, STRAIGHT, HEADLESS	EA		1	*	*	*	*	*	D7	11	
0189		O		5315-273-7846	PIN, STRAIGHT, THREADED: GOVERNOR SPRING ADJUSTING	EA		1	*	*	*	*	*	D7	20	
0190		O		5310-637-1058	NUT, PLAIN, HEXAGON: ADJUSTING PIN	EA		2	*	*	*	*	*	D7	1	

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUS-TRATION				
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(d)	(e)	(f)	(g)	(h)	(i) FIG. NO.	(j) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0193		0		5306-356-0965	BOLT, HOOK: GOVERNOR CONTROL			1	*	*	*	*	D7	19			
0199	X2	0		2990-301-6374	LEVER, GOVERNOR CONTROL			1	*	*	*	*	D7	17			
0200		0		5310-637-1056	NUT, PLAIN, HEXAGON: YOKE TO LEVER			1	*	*	*	*	D7	16			
0201		0		5315-200-9052	PIN, COTTER: HOOK BOLT MTG			1	*	*	*	*	D7	18			
0204	P	0		2990-224-8188	SPRING, HELICAL, EXTENSION: LEVER			1	*	*	*	*	D7	15			
0205		0		5310-194-1540	RETURN WASHER, FLAT: TENSION SPRING			1	*	*	*	*	D7	14			
0207	P	0		5340-256-7147	RETAINING SPRING, HELICAL, COMPRESSION: LEVER			1	*	*	*	*	D7	13			
0208					TENSION 66289 PM117	EA		1	*	*	*	*	D7	13			
					0099- FUEL FILTERS												
0209	P	0			KIT, STRAINER			1	*	*	*	2					
0210	X1			2910-382-8768	BAIL ASSEMBLY, FUEL STRAINER BOWL			1	*	*	*		D6	15			
0211	X1			2910-269-7126	BOWL, SEDIMENT, FUEL			1	*	*	*		D6	14			
0212	X1			2910-142-2738	STRAINER ELEMENT, SEDIMENT			1	*	*	*		D6	12			
0213	X1			5330-187-2962	WASHER, NONMETALLIC: BOWL			1	*	*	*		D6	13			
0214	X2	0		2910-202-8795	STRAINER, SEDIMENT, FUEL (INCLUDES COMPONENTS OF KIT, Stock No. 66289 LQ32)			1	*	*	*	*	D6	11			
0215					GROUP 04 - EXHAUST SYSTEM												
0216					0401 - MUFFLER AND PIPES												
0217	X2	0			MUFFLER ASSEMBLY			1	*	*	*	*					
0218	P	0		2990-620-0157	MUFFLER, EXHAUST			1	*	*	*	*	D1	23			
0219		0		4730-265-6907	NIPPLE, PIPE: MUFFLER			1	*	*	*	*	D1	24			
0220					GROUP 05 - COOLING SYSTEM												
0221					0502 - COILING, DEFLECTORS, AIR DUCTS SHROUDS, ETC.												
0222	X2	0			PLATE, DEFLECTOR, HEAT			1	*	*	*	*	D15	14			
0223		0		5305-275-9838	SCREW, MACHINE: SHROUD MTG			2	*	*	*	*	D8	12			
0224	X2	0			SHROUD ASSEMBLY, AIR			1	*	*	*	*	D8	2			
0225		0		5320-383-9268	RIVET, TUBULAR: SIDE SHROUD			2	*	*	*	*	D8	4			
0226	X2	0			SCREEN, AIR			1	*	*	*	*	D8	10			
0227	X2	0		2930-384-8486	SHROUD, SIDE			1	*	*	*	*	D8	3			
0228		0		5310-261-7341	WASHER, LOCK: SHROUD MTG			2	*	*	*	*	D8	11			

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	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a)	(b)	(c)	(d)	FIG. NO.	ITEM OR SYM. NO.
									CODE	PART NUMBER	1-5	6-20	21-50	51-100		
0229					GROUP 06 - ELECTRICAL SYSTEM											
0230					0605 - IGNITION COMPONENTS											
0231		0		5306-207-9138	BOLT, MACHINE: MAGNETO MTG	66289	PB164	EA	1	*	*	*	*	D10	4	
0232	P	0		2920-015-6243	CABLE, IGNITION: SPARK PLUG	66289	YD300A	EA	1	*	*	*	*	D10	1	
0233	X1			2920-047-4530	GASKET: MAGNETO MTG (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	66289	QD570A	EA	1					D10	6	
0234	X2	0		2805-672-9510	GEAR, MAGNETO DRIVE	66289	GD87C	EA	1	*	*	*	*	D9	17	
0235	P	0	R	2920-015-6244	MAGNETO (INCLUDES COMPONENTS OF MAGNETO KIT, Stock No. 2920-893-6031)	82796	FMXDE1B7S1	EA	1	*	*	*	*	D10	8	
0236	X1			3110-144-8998	BEARING, BALL, ANNULAR: DRIVE END	82796	C5949	EA	1					D9	20	
0237	X1			2920-286-2712	BEARING, SLEEVE: IMPULSE COUPLING	82796	F2572	EA	1					D9	16	
0238	X1			2920-354-0750	CAMWICK AND HOLDER ASSEMBLY	82796	G2768	EA	1					D9	28	
0239	X1				CAP, END	82796	MY2430A	EA	1					D9	46	
0240	X1			2920-319-5058	CLIP, COIL	82796	D6120	EA	1					D9	3	
0241	X1			2920-349-3887	COIL, MAGNETO	82796	T2477C	EA	1					D9	4	
0242	X1			2920-939-9835	COUPLING, MAGNETO DRIVE	82796	LV2563C	EA	1					D9		
0243	X1			2920-981-0763	HUB ASSEMBLY, IMPULSE COUPLING	82796	SZ2563	EA	1					D9	13	
0244	X1			2920-773-2109	SPRING, HELICAL, TORSION: PAWL	82796	E5963	EA	1					D9	12	
0245	X1				SHELL, COUPLING	82796	WY5957	EA	1					D9	15	
0246	X1			2920-354-0741	SPRING, SPIRAL, TORSION: DRIVE	82796	D2565	EA	1					D9	14	
0247	X1			2920-714-5869	COVER, MAGNETO COIL VENT	82796	B6030A	EA	2					D9	53	
0248	X1			2920-455-7098	HOUSING, MAGNETO	82796	RX2425	EA	1					D9	5	
0249	X1			2920-939-9834	INSULATOR, STANDOFF: CABLE OUTLET	82796	AX2474	EA	1					D9	48	
0250	X1			5315-616-5514	KEY, WOODRUFF: IMPULSE COUPLING TO ROTOR SHAFT	82796	3K1	EA	1					D9	22	
0251	X1			5310-366-7158	NUT, CASTELLATED, HEXAGON: DRIVE GEAR MOUNTING	82796	M2570	EA	1					D9	18	
0252	X1			5315-358-7578	PINLOCK: FULCRUM PIN	82796	C1498G	EA	1					D9	49	
0253	X1			5305-831-0140	SETSCREW	82796	S2568	EA	1					D9	7	
0254	X1			2920-354-0766	PLATE ASSEMBLY, BEARING SUPPORT	82796	V4631	EA	1					D9	26	
0255	X1				PLATE, IDENTIFICATION: MAGNETO	82796	A195	EA	1					D9	55	
0256	X1			5320-117-7413	RIVET: PLATE MTG	82796	A195	EA	2					D9	56	
0257	X1			2920-444-8599	ROD, HIGH TENSION LEAD	82796	P983	EA	1					D9	37	
0258	X1			2920-315-1970	ROTOR, MAGNETO	82796	DW2480	EA	1					D9	23	
0259	X1			5305-103-2684	SCREW, ASSEMBLED WASHER	82796	6S3W	EA	1					D9	1	
0260	X1			5305-045-1626	SCREW, ASSEMBLED WASHER: CONTACT PLATE AND CAMWICK MTG	82796	8S6U	EA	1					D9	30	
0261	X1			5305-637-6648	SCREW, ASSEMBLED WASHER: CONTACT PLATE LOCKING	82796	6S6U	EA	1					D9	50	
0262	X1			5305-281-6387	SCREW, ASSEMBLED WASHER: END CAP MOUNTING	82796	10S10D	EA	2					D9	45	

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	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) OR ITEM SYM. NO.
									CODE	PART NUMBER						
0263	X1			5305-751-8654	SCREW, MACHINE	EA		2						D9	52	
0264	X1			5305-206-8263	SCREW, MACHINE: BEARING PLATE MTG	EA		2						D9	25	
0265	X1			9510-266-9268	SCREW, MACHINE: CONDENSER MTG	EA		2						D9	35	
0266	X1			5305-733-8746	SCREW, MAGNETO BLOCK	EA		2						D9	32	
0267	X1				SCREW, TAPPING: TERMINAL MTG	EA		1						D9	31	
0268	X1			5305-707-4008	SETScrew: COIL LOCKING	EA		2						D9	6	
0269	X1				SWITCH ASSEMBLY, STOP	EA		1						D9	38	
0270	X1				BUSHING, INSULATOR: SWITCH	EA		1						D9	44	
0271	X1			2920-939-9836	BUTTON, SWITCH	EA		1						D9	40	
0272	X1				FERRULE, SWITCH PLUNGER	EA		1						D9	43	
0273	X1			5310-428-7558	NUT, PLAIN, KNURLED: SWITCH	EA		1						D9	41	
0274	X1				PLUNGER, SWITCH	EA		1						D9	42	
0275	X1				SPACER, SWITCH	EA		1						D9	39	
0276	X1				SPRING, SWITCH	EA		1						D9	39	
0277	X1			5310-647-2054	WASHER, FLAT: CONTACT PLATE AND CAMMICK MTG	EA		1						D9	29	
0278	X1			5310-270-2172	WASHER, FLAT: CONTACT PLATE LOCKING	EA		1						D9	51	
0279	X1			5310-013-8473	WASHER, LOCK: COIL CLIP MTG	EA		1						D9	2	
0280	X1			2920-699-1268	WASHER, LOCK: CONDENSER MTG	EA		2						D9	34	
0281	X1				WIRE, FABRIC, VENT	EA		1		*	*	*	2	D9	54	
0283	P	0		2920-893-6031	PARTS KIT, IGNITION	EA		1						D9	24	
0284	X1			2920-428-7543	BEARING, SLEEVE: CONTACT PLATE	EA		1						D9	8	
0285	X1			5340-246-3405	CLIP, RETAINING: ROTOR DRIVE END SHAFT	EA		1						D9	33	
0286	X1			5910-280-6347	CONDENSER, MAGNETO	EA		1						D9	27	
0287	X1			2920-319-5055	CONTACT SET, DISTRIBUTOR	EA		1						D9	47	
0288	X1			2920-523-8602	GASKET: END CAP	EA		1						D9	45	
0289	X1			5305-281-6387	SCREW, ASSEMBLED WASHER: END CAP MTG	EA		2						D9	45	
0290	X1				SEAL, CONDENSER	EA		1						D9	36	
0291	X1			2920-356-1221	SEAL, PLAIN	EA		1						D9	10	
0292	X1			2920-358-7945	SHIM (1)	EA		0								
0293	X1			5340-143-5280	RING, RETAINING: BALL BEARING	EA		1						D9	21	
0294	X1			5310-205-7981	RETAINING WASHER, FLAT: SEAL, INNER	EA		1						D9	9	
0295	X1			5310-285-1591	WASHER, FLAT: SEAL, OUTER	EA		1						D9	11	
0296		0		5310-188-7848	NUT, PLAIN, HEXAGON: MAGNETO MTG	EA		1		*	*	*	*	D10	9	
0297		0		5305-206-1071	SCREW, CAP, HEXAGON HEAD: MAGNETO MTG	EA		1		*	*	*	*	D10	7	
0298	P	0		2920-810-7082	SPARK PLUG: SHIELDED	EA		1		*	2	2	2	D10	2	
0299	P	0		2920-505-6185	GASKET: SPARK PLUG	EA		1		*	*	*	*	D10	3	
0300		0		5310-070-3320	WASHER, LOCK: MAGNETO MTG	EA		3		*	*	*	*	D10	5	
0301					0615 - RADIO INTERFERENCE SUPPRESSION											
0302		0		5310-012-0377	NUT, PLAIN, HEXAGON: GROUND STRAP TO FRAME	EA		1		*	*	*	*	D11	5	
0303		0		5305-269-3211	SCREW, CAP, HEXAGON HEAD: GROUND STRAP TO FRAME	EA		1		*	*	*	*	D11	17	

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	(a) SOURCE	(b) MAIN.	(c) RECOV.										(a) FIG. NO.	(b) ITEM OR SYM. NO.	
									MANUFACTURER'S						
									CODE	PART NUMBER					
0304	X2	0		5310-275-9263	STRAP, GROUND	EA		1	*	*	*	*	D11	4	
0305		0			WASHER, LOCK: GROUND STRAP TO GROUND	EA		2	*	*	*	*	D11	12	
0306				5320-061-8213	GROUP 15 - FRAME										
0307					1501 - FRAME ASSEMBLY										
0308	X2	0			FRAME ASSEMBLY	EA		1						D11	2
0309					1808 - BOXES	GROUP 18 - BODY, CAB, HOOD AND HULL									
0310															
0311	X2	0			BOX, STORAGE: ACCESSORY	EA		1	*	*	*	*		D11	1
0312					2210 - DATA PLATES	GROUP 22 - MISCELLANEOUS BODY CHASSIS OR HULL AND ACCESSORY ITEMS									
0313															
0314	X2	0				PLATE, IDENTIFICATION: COMPRESSOR	EA		1	*	*	*	*		
0315	X2	0				PLATE, IDENTIFICATION: UNIT	EA		1	*	*	*	*		
0316	X2	0		PLATE, INSTRUCTION: ENGINE	EA		1	*	*	*	*				
0317	X2	0		PLATE, INSTRUCTION, OPERATING	EA		1	*	*	*	*				
0318	X2	0		RIVET, PULL: ENGINE PLATE	EA		4	*	*	*	*				
0319		0		RIVET, SOLID: OPERATING INSTRUCTION	EA		4	*	*	*	*				
				PLATE MTG	EA		4	*	*	*	*				
0320				4702 - GAGES	GROUP 47 - GAGES										
0321															
0322	P	0		6620-015-6271	GAGE, PRESSURE: DISCHARGE MANIFOLD	EA		1	*	*	*	*	D15	6	
0332				4310-980-5071 5315-014-1147	GROUP 50 - PNEUMATIC EQUIPMENT										
0332A					5001 - CRANKCASE, CYLINDER HEAD										
0335	X2	0			HEAD, CYLINDER: COMPRESSOR	EA		2	*	*	*	*		D13	3
0337		0		5305-285-5200	PIN, STRAIGHT, HEADLESS: CYLINDER HEAD TO HOUSING	EA		4	*	*	*	*	D14	23	
0338		0			SCREW, CAP, SOCKET HEAD: CYLINDER HEAD MOUNTING	EA		24	*	*	*	*	D13	16	

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUSTRATION	
	(a) SOURCE	(b) MAIN	(c) RECOV.						(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ILLUSTRATION SYM. NO.
CODE		PART NUMBER												
0340		0		5310-012-0379	WASHER, LOCK: CYLINDER HEAD MTG	EA		24	*	*	*	*	D13	17
0352					5004 PISTONS, CONNECTING RODS, AND ROTARY ROTORS									
0354	P	0		4310-790-6351	DIAPHRAGM, COMPRESSOR	EA		2	*	2	2	2	D12	8
0359	X2	0		4310-790-6352	PLATE, DIAPHRAGM: COMPRESSOR	EA		2	*	*	*	*	D12	9
0360		0			SCREW, MACHINE: DIAPHRAGM PLATE MTG	EA		14	*	*	*	*	D12	10
0361					5005 - VALVES									
0362	P	0		5330-842-6535	GASKET: OUTLET VALVE	EA		2	*	2	2	4	D13	18
0363	X2	0			NUT, RETAINER: INTAKE VALVE	EA		2	*	*	*	*	D13	11
0370	P	0		4310-015-6182	VALVE, INLET: COMPRESSOR	EA		2	*	*	*	2	D13	2
0370A	P	0		4310-790-6355	VALVE, DISCHARGE: COMPRESSOR	EA		2	*	*	*	2		
0380					5008 - AIR INTAKES									
0381	X2	0	R		CLEANER, AIR: COMPRESSOR	EA		2	*	*	*	*	D15	12
0382	P	0		5340-820-0036	DISK, SOLID, PLAIN: CLEANER	EA		2	*	2	2	4	D13	9
0383	X2	0			LOCKNUT, ELECTRICAL CONDUIT: CLEANER NIPPLE	EA		4	*	*	*	*	D13	5
0384	X2	0		4730-196-1493	NIPPLE, PIPE: AIR CLEANER MTG	EA		2	*	*	*	*	D13	4
0385	X2	0			SCREEN, CLEANER: INNER	EA		2	*	*	*	*	D13	8
0386	X2	0			SCREEN, CLEANER: OUTER	EA		2	*	*	*	*	D13	10
0387	X2	0			SHELL, CLEANER	EA		2	*	*	*	*	D13	7
0388	X2	0			WASHER, FLAT: CLEANER NIPPLE	EA		4	*	*	*	*	D13	6
0389					5010 - COMPRESSOR COOLING									
0390		0		5306-225-8507	BOLT, MACHINE: BLOWER SHROUD MTG	EA		4	*	*	*	*	D14	6
0391		0		5306-225-9091	BOLT, MACHINE: BLOWER WHEEL MTG	EA		1	*	*	*	*	D14	15
0392	X2	0			COVER, SCROLL: SCROLL RETAINING	EA		1	*	*	*	*	D14	17
0393	X2	0			SCREEN, BLOWER SCROLL	EA		1	*	*	*	*	D14	16
0394		0		5305-011-0582	SCREW, MACHINE: SCROLL COVER MTG	EA		4	*	*	*	*	D14	19
0395		0		5305-012-0585	SCREW, MACHINE: SCROLL MTG	EA		4	*	*	*	*	D14	12
0396	X2	0			SCROLL, BLOWER	EA		1	*	*	*	*	D14	9
0397	X2	0			SHROUD, BLOWER	EA		1	*	*	*	*	D14	5
0398		0		5310-012-0379	WASHER, LOCK: BLOWER AND SHROUD MTG	EA		5	*	*	*	*	D14	3
0399		0		5310-527-3288	WASHER, LOCK: SCROLL COVER MTG	EA		4	*	*	*	*	D14	18
0400		0		5310-012-0380	WASHER, LOCK: SCROLL MTG	EA		4	*	*	*	*	D14	10
0401	X2	0			WHEEL ASSEMBLY, BLOWER	EA		1	*	*	*	*		
0403		0		5305-013-2688	SCREW, MACHINE: INLET VALVE MTG	EA		4	*	*	*	*	D13	1
0404		0		5315-282-1253	PIN, SPRING: BLOWER WHEEL	EA		1	*	*	*	*	D14	13
0405	X1				WHEEL, BLOWER	EA		1	*	*	*	*	D14	14

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUSTRATION									
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a)	(b)	(c)	(d)	(a)	(b)						
									CODE	PART NUMBER							1-5	6-20	21-50	51-100	FIG. NO.	ITEM OR SYM. NO.
0406					50150151R NBC DISCHARGE SYSTEM																	
0407		0		4730-270-4007	ADAPTER, STRAIGHT, PIPE TO TUBE: DISCHARGE TUBE	30327 48F1-2X3-8	EA	2	*	*	*	*	D15	10								
0408	X2	0			BRACKET, MANIFOLD	32242 61-34836	EA	1	*	*	*	*	D15	20								
0409	X2	0			CLAMP, MANIFOLD	32242 61-34835	EA	2	*	*	*	*	D15	7								
0410	X2	0			COCK, DRAIN: MANIFOLD	32242 49-22302	EA	1	*	*	*	*	D15	15								
0411	X2	0			COUPLER, QUICK DISCONNECT: MANIFOLD OUTLET	94894 754	EA	10	*	*	*	*	D15	11								
0412		0		4730-277-9174	ELBOW, PIPE TO TUBE: DISCHARGE TUBE TO RETAINER NUT	30327 ORD118-757	EA	2	*	*	*	*	D15	13								
0413	X2	0			MANIFOLD, DISCHARGE	32242 63-36121	EA	1	*	*	*	*	D15	8								
0414		0		4730-718-2654	NIPPLE, PIPE: SAFETY VALVE TO MANIFOLD	32242 49-1036	EA	1	*	*	*	*	D15	3								
0415		0		5305-983-5347	SCREW, CAP, SOCKET HEAD: MANIFOLD BRACKET MTG	32242 69-14407-79	EA	2	*	*	*	*	D15	18								
0416		0			SCREW, MACHINE: MANIFOLD CLAMP MTG	32242 69-14044-79	EA	4	*	*	*	*	D15	5								
0417	X2	0			TEE, PIPE: SAFETY VALVE	32242 49-1063	EA	1	*	*	*	*	D15	2								
0418	M	0			TUBE, DISCHARGE	32242 29-4351	EA	2					D15	9								
0418A	X2	0		4730-012-0141	MANUFACTURE FROM:	30327 41FS1-2	EA	4	*	*	*	*										
0418B	P	0		4710-277-5522	NUT, TUBE COUPLING TUBE, COPPER		CO		SEE GRP 9501													
					(10 IN. REQUIRED FOR EACH TUBE)																	
0419		0		5310-012-0379	WASHER, LOCK: MANIFOLD BRACKET MTG	32242 69-1500-79	EA	2	*	*	*	*	D15	19								
0420		0		5310-012-0380	WASHER, LOCK: MANIFOLD CLAMP MTG	32242 69-3343-79	EA	4	*	*	*	*	D15	4								
0421	X2	0			VALVE, SAFETY: DISCHARGE MANIFOLD	75336 1125	EA	2	*	*	*	*	D15	1								
0422					GROUP 58 - DECONTAMINATION EQUIPMENT COMPONENTS																	
0423					5803 - DECONTAMINATION EQUIPMENT COMPONENTS																	
0424	X2	0			CLAMP, HOSE: DISPENSING HOSE	32242 49-22304	EA	20	*	*	*	*	D16	8								
0425	X2	0			COUPLER, QUICK DISCONNECT: HOSE TO GUN	94894 759	EA	10	*	*	*	*	D16	7								
0426	P	0		4230-977-0969	DUSTING GUN ASSEMBLY	29670 144	EA	10	*	*	*	*										
0427		0		4730-266-0531	ADAPTER, STRAIGHT, PIPE TO TUBE: TUBE TO HANDLE	79470 48X3	EA	20	*	*	*	*	D16	18								
0428	X2	0			CANISTER, DUSTING	29670 940-620	EA	10	*	*	*	*	D16	14								
0429	X1				BOLT, TOGGLE: COVER LOCKING	29670 952-450	EA	10					D16	13								
0430	X1				COVER, CANISTER	29670 940-600	EA	10					D16	19								
0431	P	0		4230-977-0973	GASKET: CANISTER COVER	29670 952-200	EA	10	2	5	10	21	D16	15								
0432	X1				PLATE, STRIKER	29670 926-400	EA	10					D16	20								
0433	X1				RIVET, GOLT	29670 801-610	EA	20					D16	12								

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15 DAY ORG. MAINT. ALW.				(8) ILLUS-TRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a)	(b)	(c)	(d)	(a)	(b)
									CODE	PART NUMBER						
0434	X1			5320-061-8213	RIVET, SOLID: STRIKER MTG	EA		20						D16	21	
0435	P	0		5330-248-3838	PACKING, PREFORMED: AIR INLET AND OUTLET TUBE TO HANDLE	EA		20	4	10	20	42		D16	23	
0436	X2	0			HANDLE, GUN	EA		10	*	*	*	*		D16	4	
0437	X2	0			NOSE, HANDLE	EA		10	*	*	*	*		D16	5	
0438	X2	0		5315-582-2466	PIN, SPRING: TRIGGER MTG	EA		20	*	*	*	*		D16	5	
0439	X1				SETSCREW, DRILL PASSAGE	EA		10	*	*	*	*		D16	3	
0440	X1			5305-012-7782	SETSCREW: VALVE RETAINING	EA		10	*	*	*	*		D16	23	
0441	X2	0			TRIGGER, GUN	EA		10	*	*	*	*		D16	11	
0442	X2	0		4230-977-0972	TUBE ASSEMBLY, AIR INLET	EA		10	*	*	*	*		D16	16	
0443	X2	0			NUT, TUBE COUPLING	EA		10	*	*	*	*				
0444	X2	0			SLEEVE, COMPRESSION: TUBE NUT	EA		10	*	*	*	*				
0445	X1				TUBE, INLET, AIR	EA		10	*	*		2	2	D16	1	
0446	P	0		4230-977-0974	TUBE ASSEMBLY, DISCHARGE	EA		10	*	*	*	*		D16		
0447	X2	0		4230-977-0971	TUBE ASSEMBLY, DUST OUTLET	EA		10	*	*	*	*		D16	17	
0448	X2	0			NUT, TUBE COUPLING	EA		10	*	*	*	*				
0449	X2	0			SLEEVE, COMPRESSION: TUBE NUT	EA		10	*	*	*	*				
0450	X1				TUBE, OUTLET, DUST	EA		10	*	*						
0451	P	0		4230-977-0970	VALVE ASSEMBLY, TRIGGER	EA		10	*	*		2	2	D16	29	
0452	X1				BODY, VALVE	EA		10						D16	22	
0453	X1				CAP, VALVE	EA		10						D16	28	
0454	P	0		3740-065-8559	GASKET: BODY	EA		10	2	5	10	21		D16	30	
0455	P	0		5330-252-6048	PACKING, PREFORMED, CAP	EA		10	2	5	10	21		D16	24	
0456	X1				SPRING, VALVE	EA		10						D16	26	
0457	X1				STEM, VALVE	EA		10						D16	27	
0458	X1				WASHER, BODY	EA		10						D16	9	
0459	X2	0			HOSE, AIR: DISPENSING	EA		10	*	*	*	*		D16	6	
0460	X2	0			PLUG, AIR: GUN TO HOSE	EA		10	*	*	*	*		D16		
0461	X2	0			PLUG, AIR: HOSE TO MANIFOLD	EA		10	*	*	*	*		D16	10	
0462					GROUP 95 - GENERAL USE STANDARDIZED PARTS											
0463					9501 - BULK MATERIAL											
0464	P	0		5330-233-5847	PAPER, GASKET: 36 IN. W, 1/16 IN. THK	YD			*	*	*	*				
0465	P	0		4710-277-6110	TUBE, COPPER: 1/2 IN. OD, 0.049 IN. WALL THK	FT			*	*	*	*				
0466	P	0		4710-277-5525	TUBE, COPPER: 0.250 IN. DIA	FT			*	*	*	*				

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER 100 EQUIP. CTY/GCY. PLANNING	(9) DEPOT MAINT. ALW. PER 100 EQUIP.	(10) ILLUSTRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a) 1-20			(b) 21-50	(c) 51-100	(a) FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0001					SECTION 4 - REPAIR PARTS FOR DS, GS, AND DEPOT MAINTENANCE												
0002					GROUP 01 - ENGINE												
0003					0100 - ENGINE ASSEMBLY												
0004	X2	F		4310-790-6350	BUSHING, SLEEVE: ENGINE MTG	EA	4	4	SEE GRP 9901						D11	9	
0005		F		5310-790-7868	BUSHING, VIBRATION MOUNT: ENGINE	EA	4	4	* * *						D11	8	
0006	P	F	R	2805-015-6262	ENGINE, GASOLINE: WISCONSIN MODEL												
0007	P		O	2805-722-1169	MACND, SPECIFICACIION 231082	EA	1	1	* * *			1	5				
0008	X1			2805-244-8184	GASKET SET: ENGINE OVERHAUL	EA	1	1	* 2 2			11	100				
0009	X1			2910-329-1471	GASKET: BEARING RETAINER PLATE, FLYWHEEL END	EA	1	1	SEE GRP 0102								
0010	X1			2805-707-0414	GASKET: CARBURETOR MTG	EA	1	1	SEE GRP 0301								
0011	X1			2805-376-0398	GASKET: CYLINDER HEAD	EA	1	1	SEE GRP 0101								
0012	X1			2920-047-4530	GASKET: ENGINE BASE	EA	1	1	SEE GRP 0106								
0013	X1			2805-527-7604	GASKET: MAGNETO MTG	EA	1	1	SEE GRP 0605								
0014	X1			5330-376-1249	GASKET: MAIN BEARING PLATE, TAKE-OFF END (AS REQUIRED)	EA	5	5	SEE GRP 0102								
0015	X1			5330-376-0397	GASKET: MAIN BEARING PLATE, TAKE-OFF END (2) (AS REQUIRED)	EA	1	1	SEE GRP 0102								
0016	X1			2805-376-0403	GASKET: VALVE TAPPET PLATE	EA	1	1	SEE GRP 0105								
0017		F		5310-012-0377	GASKET: YOKE BRACKET MTG	EA	4	4	SEE GRP 0303								
0018	X2	F		4310-790-6348	NUT, PLAIN, HEXAGON: ENGINE MTG	EA	8	8	* * *						D11	5	
0019	F			5305-550-4797	PAD, VIBRATION MOUNT: ENGINE	EA	4	4	SEE GRP 9901						D11	10	
0020	F			5310-790-7836	SCREW, CAP, HEXAGON HEAD: ENGINE MTG	EA	8	8	* * *						D11	7	
0021	F			5310-012-0382	WASHER, FLAT: ENGINE MTG	EA	3	3	* * *						D11	6	
0022	F			5310-013-8542	WASHER, LOCK: ENGINE MTG	EA	3	3	* * *						D11	6	
0023					WASHER, LOCK: ENGINE MTG, AT GROUND STRAP	EA	1	1	* * *						D11	3	
0024					0101 - CRANKCASE, CYLINDER HEAD												
0025	O			5306-206-4244	BOLT, MACHINE: HEAD MTG	EA	3	3	* * *						D1	3	
0026	O			5306-298-4781	BOLT, MACHINE: HEAD MTG	EA	5	5	* * *						D1	2	
0027	X2	F			CYLINDER AND CRANKCASE ASSEMBLY	EA	1	1	* * *						D1	7	
0028	X1	F		2805-695-2177	CYLINDER AND CRANKCASE	EA	1	1	* * *						D3	4	
0029	P	F		2805-776-8151	GUIDE, ENGINE POPPET VALVE	EA	2	2	SEE GRP 0105								
0030	P	F		2805-146-3961	INSERT, VALVE SEAT	EA	1	1	SEE GRP 0105								
0031	P	F		2805-301-2940	LOCK, VALVE SPRING RETAINER	EA	4	4	SEE GRP 0105								
					ROTATOR, VALVE	EA	1	1	SEE GRP 0105								

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER 100 EQUIP. CITYCCT. PLANNING	(9) DEPOT MAINT. ALW. PER 100 EQUIP.	(10) ILLUS-TRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a) 1-20			(b) 21-50	(c) 51-100	FIG. NO.	(a) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0032	P	F		2805-620-0156	SEAT, SPRING CENTERING	66289 AG34B	EA	2	SEE GRP 0105								
0033	P	F		2805-143-6657	SEAT, VALVE SPRING	66289 AG26	EA	1	SEE GRP 0105								
0034	P	F		2805-808-5675	SPRING, VALVE	66289 AF43B	EA	2	SEE GRP 0105								
0035	P	F		2805-776-0512	TAPPET, ENGINE POPPET VALVE	66289 FA42C	EA	2	SEE GRP 0105								
0036	P	F		2805-448-1050	VALVE, ENGINE EXHAUST	66289 AE74D	EA	1	SEE GRP 0105								
0037	P	F		2805-270-3429	VALVE, POPPET, ENGINE: INTAKE	66289 AE74C	EA	1	SEE GRP 0105								
0038	P	O		2805-792-9760	CYLINDER HEAD, GASOLINE ENGINE	66289 AB99K1S1	EA	1	*	*	*	1	5	D1	5		
0039	X1			2805-707-0414	GASKET: CYLINDER HEAD (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	66289 QD718	EA	1						D1	6		
0040	X2	F		5340-223-0933	PLUG, EXPANSION: CAMSHAFT PIN	66289 SA26	EA	2	*	*	*	*	*	D3	12		
0041	O			4730-366-6256	PLUG, PIPE: TIMING INSPECTION	66289 PF25	EA	1	*	*	*	*	*	D1	12		
0042	O			5307-286-0334	STUD, PLAIN: CARBURETOR MTG	66289 PC368	EA	2	*	*	*	*	*	D5	8		
0043	O			5310-366-6294	WASHER, FLAT: HEAD MTG	66289 PH77	EA	7	*	*	*	*	*	D1	4		
0044	O			5310-596-4911	WASHER, LOCK: CYLINDER HEAD MTG	66289 PE4	EA	1	*	*	*	*	*	D1	1		
0045					0102 - CRANKSHAFT 0102 - CRANKSHAFT												
0046	F			5306-207-6501	BOLT, MACHINE: PLATE ASSEMBLY MTG	66289 XD15	EA	4	*	*	*	*	*	D2	24		
0047	F			5306-207-9152	BOLT, MACHINE: PLATE MTG	66289 XD4	EA	4	*	*	*	*	*	D2	1		
0048	P	F		2805-383-8628	CRANKSHAFT ASSEMBLY, ENGINE	66289 CA51-2S1	EA	1	*	*	*	1	5				
0049	X2	F		3110-100-6009	BEARING, ROLLER, TAPERED: CRANKSHAFT	66289 ME88	EA	2	*	*	*	*	*				
0050	P	F		3110-100-3158	CONE AND ROLLERS, TAPERED ROLLER BEARING	60038 15118	EA	2	*	*	*	4	30	D2	8		
0051	P	F		3110-100-0522	CUP, TAPERED ROLLER BEARING	60038 15251	EA	2	*	*	*	4	30	D2	7		
0052	X1			2805-383-8628	CRANKSHAFT	66289 CA51-2	EA	1						D2	12		
0053	P	F		2805-249-9903	GEAR, HELICAL: CRANKSHAFT, 22 TEETH	66289 GA34A	EA	1	SEE GRP 0105								
0054	F			5315-010-6749	KEY, WOODRUFF: CRANKSHAFT	66289 PL21	EA	1	*	*	*	*	*	D2	11		
0055	X1			2805-244-8184	GASKET: BEARING RETAINER PLATE, FLYWHEEL END (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100) (CAN BE MANUFACTURED FROM PAPER, STOCK No. 5330-233-5845)	66289 QD574	EA	1						D2	4		
0056	X1			2805-527-7604	GASKET: MAIN BEARING PLATE, TAKE-OFF (2) (AS REQUIRED) (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	66289 QD573	EA	0						D2	21		
0057	X1			5330-298-5170	GASKET: MAIN BEARING PLATE, TAKE-OFF END (AS REQUIRED) (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	66289 QD573A	EA	0						D2	22		
0058	X2	F			KEY, MACHINE: DRIVE COUPLING TO CRANKSHAFT	32242 61-41076	EA	1	*	*	*	*	*	D2	20		

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTY GCY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUSTRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a) 1-20			(b) 21-50	(c) 51-100	(a) FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0059		F		5315-012-4552	KEY, WOODRUFF: FLYWHEEL MTG	EA		1	*	*	*	*	*	D2	10		
0060	X2	F			PLATE ASSEMBLY, BEARING: TAKE-OFF END (INCLUDES CUP, Stock No. 3110-100-0522)	EA		1	*	*	*	*	*				
0061	P	F		2805-356-0940	GASKET: OIL SEAL	EA		1	SEE GRP 9901					D2	5		
0062	X1	F		2805-383-4090	PLATE, BEARING	EA		1						D2	23		
0063	P	F		2805-351-6741	RETAINER, PACKING: MAIN BEARING	EA		1	SEE GRP 9901					D2	3		
0064	X2	F		2805-353-5849	PLATE, BEARING	EA		1	*	*	*	*	*	D2	3		
0065	P	F		2805-356-0940	GASKET: MAIN BEARING, FLYWHEEL END	EA		1	SEE GRP 9901					D2	5		
0066	P	F		2805-351-6741	RETAINER, PACKING: MAIN BEARING	EA		1	SEE GRP 9901					D2	5		
0067		F		5310-675-5755	WASHER, FLAT: PLATE ASSEMBLY MTG	EA		4	SEE GRP 9901					D2	25		
0068		F		5310-261-7341	WASHER, LOCK: BEARING RETAINER MTG	EA		4	*	*	*	*	*	D2	2		
0069					0108105 - FLYWHEEL ASSEMBLY												
0070	X2	O		280-376-0395	FLYWHEEL, ENGINE	EA		1	*	*	*	*	*	D8	1		
0071					0104 - PISTONS, CONNECTING RODS												
0072	P	F		2805-708-9409	PARTS KIT, PISTON: ENGINE	EA		1	*	2	2	20	100				
0073	X1	F		2805-702-0998	RING, PISTON: COMPRESSION	EA		2						D2	17		
0074	X1	F		2805-702-1703	RING, PISTON: OIL	EA		1						D2	15		
0075	X1	F		2805-447-9145	RING, PISTON: SCRAPER	EA		1						D2	16		
0076	P	F		2805-015-6263	PISTON ASSEMBLY	EA		1	*	2	2	20	100				
0077	P	F		2805-288-4856	PIN, PISTON	EA		1	*	*	*	2	10	D2	18		
0078	V	F		5340-291-8235	RING, RETAINING: PISTON PIN	EA		2	*	*	*	4	20	D2	19		
0079	X1	F		2805-790-8740	PISTON, INTERNAL COMBUSTION ENGINE	EA		1						D2	14		
0080	P	F		2805-672-9509	ROD ASSEMBLY, CONNECTING	EA		1	*	2	2	20	100				
0081	X1	F			ROD, CONNECTING	EA		1						D2	13		
0082		F		5305-049-9608	SCREW, CAP, HEXAGON HEAD	EA		2	*	*	*	*	*	D2	26		
0083	P	F		2805-464-3743	SHIM, CONNECTING ROD (AS REQUIRED)	EA		2	*	*	*	4	50	D2	28		
0084		F		5310-290-5759	WASHER, KEY: CAP MTG	EA		2	*	*	*	*	*	D2	27		
0085					0105 - VALVES, CAMSHAFTS, AND TIMING SYSTEM												
0086	P	F		2805-792-9761	CAMSHAFT ASSEMBLY	EA		1	*	*	*	1	3				
0087	X1	F		2805-335-9217	CAMSHAFT, GASOLINE ENGINE	EA		1						D4	19		
0088	X1	F		2805-335-9218	GEAR, HELICAL, CAMSHAFT	EA		1						D4	18		
0089		F		5315-010-6749	KEY, WOODRUFF: GEAR	EA		1	*	*	*	*	*	D4	25		
0090	X1	F		5315-221-0480	PIN, STRAIGHT, HEADLESS: CAMSHAFT	EA		1						D4	17		
0091	X1	F		2805-268-3448	GASKET: VALVE TAPPET PLATE (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	EA		1						D1	19		

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	MANUFACTURER'S		(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTYGCY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUSTRATION	
	(a) SOURCE	(b) MAINT.	(c) RECOV.			CODE	PART NUMBER				(a)	(b)	(c)			FIG. NO.	(b) ITEM OR SYM. NO.
0092	P	F		2805-249-9903	GEAR, HELICAL: CRANKSHAFT, 22 TEETH	66289	GA34A	EA		1	*	*	*	1	3	D2	9
0093	P	F		2805-695-2177	GUIDE, ENGINE POPPET VALVE	66289	AD41	EA		2	*	2	2	20	100	D3	7
0094	P	F		2805-776-8151	INSERT, VALVE SEAT	66289	HG201D	EA		1	*	*	*	20	25	D3	5
0095	P	F		2805-146-3961	LOCK, VALVE SPRING RETAINER	66289	AH9	EA		4	*	*	2	8	40	D3	11
0096	X2	O		2805-376-0416	PLATE: VALVE TAPPET	66289	SA61	EA		1	*	*	*	*	*	D1	20
0097	P	F		2805-301-2940	ROTATOR, VALVE	66289	AG31	EA		1	*	*	*	2	20	D3	15
0098	X2	O			SCREW, CAP, HEXAGON HEAD: VALVE TAPPET PLATE MTG	66289	XD11	EA		1	*	*	*	*	*	D1	22
0099	P	F		2805-620-0156	SEAT, SPRING, CENTERING	66289	AG34B	EA		2	*	*	*	4	20	D3	14
0100	P	F		2805-143-6657	SEAT, VALVE SPRING	66289	AG26	EA		1	*	*	*	2	10	D3	10
0101	P	F		2805-808-5675	SPRING, VALVE	66289	AF43B	EA		2	*	*	2	8	50	D3	9
0102	P	F		2805-776-0512	TAPPET, ENGINE POPPET VALVE	66289	FA42C	EA		2	*	*	*	2	10	D3	13
0103	P	F		2805-448-1050	VALVE, ENGINE EXHAUST	66289	AE74D	EA		1	*	*	*	4	20	D3	8
0104	P	F		2805-270-3429	VALVE, POPPET, ENGINE: INTAKE	66289	AE74C	EA		1	*	*	*	4	20	D3	6
0105		O		5310-285-8538	WASHER, FLAT: VALVE TAPPET COVER MTG	66289	PH30	EA		1	*	*	*	*	*	D1	21
0106					0006-ENGINE LUBRICATION SYSTEM												
0107	X2	F			BASE, ENGINE: OIL PAN	66289	BB116F9	EA		1	*	*	*	*	*	D4	8
0108		F		5306-299-2393	BOLT, MACHINE: ENGINE BASE MTG	66289	XD6	EA		10	*	*	*	*	*	D1	17
0109	P	O		2805-790-7778	BREATHER, CRANKCASE	66289	L031B	EA		1	*	*	*	1	5	D1	25
0110	P	F		2805-147-3739	CAP, PUSH ROD: OIL ROD	66289	KF19A	EA		1	*	*	*	1	7	D4	1
0111	X2	O		4730-187-7611	COUPLING, PIPE: OIL DRAIN			EA		1	*	*	*	*	*	D1	14
0112	X2	O		6680-790-6346	GAGE, ROD-CAP, LIQUID LEVEL	66289	R123-2	EA		1	*	*	*	*	*		
0113	X2	O		4510-919-3101	BODY, OIL FILLER	66289	RB86	EA		1	*	*	*	*	*	D1	10
0114	P	O		6680-718-7016	GAGE, FILLER, OIL	66289	RJ152S1	EA		1	*	*	*	1	5	D1	8
0115	X2	O		2805-919-3602	GASKET: FILLER CAP	66289	QD715	EA		1	*	*	*	*	*	D1	9
0116	X2	O			NIPPLE, PIPE: OIL FILLER	66289	LJ310	EA		1	*	*	*	*	*	D1	11
0117	X1			2805-376-0398	GASKET: ENGINE BASE (COMPONENT OF GASKET SET, STOCK No. 2805-722-1169, SEE GROUP 0100) (CAN BE MANUFACTURED FROM PAPER, STOCK No. 5330-233-5846)	66289	QD569A	EA		1	*	*	*	*	*	D1	18
0118	X2	O			NIPPLE, PIPE: OIL DRAIN	66289	RF1186	EA		1	*	*	*	*	*	D1	15
0119		F		5315-282-7062	PIN, STRAIGHT, HEADLESS: PLUNGER ROD	66289	KF22	EA		1	*	*	*	*	*	D4	15
0120		O		4730-010-3867	PLUG, PIPE: OIL DRAIN	66289	XK3B	EA		1	*	*	*	*	*	D1	13
0121	P	F		2910-592-4413	PUMP ASSEMBLY, OIL	66289	K98	EA		1	*	*	*	2	25	D4	2
0122	X1			3110-100-6180	BALL, BEARING	66289	ME38	EA		1	*	*	*				
0123	X1			2805-376-0382	BODY, OIL PUMP	66289	KA59B1S1	EA		1	*	*	*				
0124	X1				BODY	66289	KA59B1	EA		1	*	*	*			D4	4
0125	X1			2805-695-2186	SEAT, INSERT CHECK, BALL	66289	KF30	EA		1	*	*	*			D4	3
0126	X1			2805-447-9294	COVER, OIL PUMP BODY	66289	SA80	EA		1	*	*	*			D4	13
0127	X1			2805-376-0417	PLUNGER ASSEMBLY	66289	KF14S1	EA		1	*	*	*				
0128	X1			3110-100-6180	BALL, BEARING	66289	ME38	EA		1	*	*	*			D4	2

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	MANUFACTURER'S	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTYCY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUSTRATION	
	(a)	(b)	(c)							(a)	(b)	(c)			(a)	(b)
	RECOV.	MAINT.	SOURCE							1-20	21-50	51-100			FIG. NO.	ITEM OR SYM. NO.
0129	X1			5315-298-3524	PIN, STRAIGHT, HEADLESS: PLUNGER	66289 PA217	EA		1						D4	11
0130	X1			2805-376-0417	PLUNGER, PUMP	66289 KF14	EA		1						D4	12
0131	X1			2805-741-0243	RETAINER, CHECK, BALL	66289 PK50A	EA		1						D4	9
0132	X1			5305-753-7077	SCREW, TAPPING, THREAD FORMING: BODY COVER MTG	66289 XA64	EA		2						D4	14
0133	X1			5340-147-3745	SPRING, HELICAL, COMPRESSION: PUMP PLUNGER	66289 PM58	EA		1						D4	10
0134	X1			2940-888-0990	STRAINER ELEMENT, SEDIMENT	66289 RD107	EA		1						D4	7
0135		F		5305-017-9797	SCREW, CAP, HEXAGON HEAD: OIL PUMP BODY MTG	66289 XD7	EA		2	*	*	*	*	*	D4	5
0136		F		5310-261-7341	WASHER, LOCK: ENGINE BASE MTG	66289 PE3	EA		10	*	*	*	*	*	D1	16
0137		F		5310-261-7341	WASHER, LOCK: OIL PUMP BODY MTG	66289 PE3	EA		2	*	*	*	*	*	D4	6
0138					0107 - ENGINE STARTER SYSTEMS											
0139	X2	O		2990-422-6161	PULLEY, ENGINE STARTER	66289 UC103A	EA		1	*	*	*	*	*	D8	8
0140	P	O		2990-618-6556	STARTER ROPE, ENGINE (CAN BE MANUFACTURED FROM CORD, Stock No. 4020-241-8439)	66289 U268	EA		1	*	2	2	20	100	D8	9
0141		O		5310-012-1574	WASHER, LOCK: STARTER PULLEY MTG	66289 PE37A	EA		1	*	*	*	*	*	D8	7
0142					GROUP 03 - FUEL SYSTEM											
0143					0301 - CARBURETOR											
0144	P	O		2910-358-4516	CARBURETOR, FUEL (INCLUDES COMPONENTS OF GASKET SET, Stock No. 2910-594-9067)	79960 11193	EA		1	*	*	*	2	15	D5	6
0145	P	O		2910-594-9067	GASKET SET: CARBURETOR SERVICE	79960 C181-296	EA		1	*	2	2	20	100	D5	9
0146	X1			2910-329-0149	GASKET: BOWL	79960 C142-55	EA		1						D5	7
0147	X1			2910-239-1471	GASKET: CARBURETOR MTG (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)	79960 C141-4-17	EA		1						D5	7
0148		O		5310-637-1056	NUT, PLAIN, HEXAGON: CARBURETOR MTG	66289 PD9	EA		2	*	*	*	*	*	D5	10
0149					0304 - AIR CLEANER											
0150	X2	O		2940-718-6031	CLEANER, AIR	66289 L0-113AS2	EA		1	*	*	*	*	*	D5	12
0151	X2	O			BAFFLE	80749 417A1K10	EA		1	*	*	*	*	*	D5	2
0152	X2	O			BAIL	80749 229B7K01	EA		1	*	*	*	*	*	D5	14
0153	X2	O			BODY	80749 1316B1K01	EA		1	*	*	*	*	*	D5	3
0154	X2	O			BRACKET ASSEMBLY: CLEANER MTG	66289 B1298A1S1	EA		1	*	*	*	*	*	D5	13
0155	X2	O		2940-423-3292	BRACKET, OIL CUP	80749 B6331	EA		1	*	*	*	*	*	D5	1
0156	X2	O			CUP, OIL	80749 1317B1	EA		1	*	*	*	*	*	D5	1
0157	X2	O			FILTER, AIR	80749 N76B4	EA		1	*	*	*	*	*	D5	11

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER 100 EQUIP. CTY GCY. PLANNING	(9) DEPOT MAINT. ALW. PER 100 EQUIP.	(10) ILLUSTRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a)			(b)	(c)	(a) FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER	1-20			21-50	51-100		
0158	M	0		2910-447-9260	GASKET: BRACKET ASSEMBLY MANUFACTURE FROM: PAPER, GASKET (1 IN. X 2 IN. REQUIRED)	EA		1							D5	5	
0158A	P	0		5330-233-5847		YD			SEE GRP 950								
0159		0		5305-208-8860	SCREW, MACHINE: BRACKET ASSEMBLY	EA		1	*	*	*	*	*		D5	4	
0160		0		5305-044-3896	SCREW, MACHINE: STRAP MTG	EA		1	*	*	*	*	*		D5	18	
0161	X2	0			SPACER, STRAP	EA		1	*	*	*	*	*		D5	15	
0162	X2	0			STRAP, SUPPORT	EA		1	*	*	*	*	*		D5	16	
0163		0		5310-261-7341	WASHER, LOCK: STRAP MTG	EA		1	*	*	*	*	*		D5	17	
0164					0306 TANKS, LINES, FITTINGS 0306 TANKS, LINES, FITTINGS												
0165		0		5306-207-9158	BOLT, MACHINE: FUEL TANK BRACKET MTG	EA		2	*	*	*	*	*		D6	8	
0166	X2	0			BRACKET, FUEL TANK	EA		1	*	*	*	*	*		D6	6	
0167	X2	0		2910-740-3354	STAND PIPE: FUEL TANK	EA		1	*	*	*	*	*		D5	16	
0168	X2	0		2910-672-1914	STRAP, TANK MOUNTING	EA		2	*	*	*	*	*		D6	1	
0169	X2	0		2910-740-3350	TANK, FUEL, ENGINE	EA		1	*	*	*	*	*				
0170	X2	0		5340-974-9537	RING, RETAINING	EA		1	*	*	*	*	*		D6	4	
0171	X2	0		4730-812-4303	STRAINER, ELEMENT	EA		1	*	*	*	*	*		D6	3	
0172	X2	0		2910-740-3352	TANK, FUEL, ENGINE	EA		1	*	*	*	*	*		D6	2	
0173	P	0		2910-814-5972	CAP, FUEL TANK	EA		1	*	*	*	*	1		D6	5	
0174	M	0		2910-447-9287	TUBE ASSEMBLY, METAL: FUEL LINE MANUFACTURE FROM:	EA		1							D6	9	
0174A		0		4730-741-0349	ELBOW, PIPE TO TUBE	EA		2	*	*	*	*	*		D6	10	
0174B		0		4730-011-6452	NUT, TUBE COUPLING	EA		2	*	*	*	*	*				
0174C	P	0		4710-277-5525	TUBE, COPPER (15 IN. REQUIRED)	FT			SEE GRP 950								
0175		0		5310-637-2534	WASHER, LOCK: FUEL TANK BRACKET MTG	EA		2	*	*	*	*	*		D6	7	
0176					0308 - ENGINE SPEED GOVERNOR AND CONTROLS												
0177	P	0		2990-383-9339	CONTROL ASSEMBLY, GOVERNOR	EA		1	*	*	*	*	1		5		
0178	X1			2990-536-2962	BLOCK	EA		1							D7	2	
0179	X1			2990-353-2961	BRACKET, CONTROL	EA		1							D7	9	
0180	X1			5310-010-3092	NUT, PLAIN, HEXAGON: ADJUSTING SCREW	EA		1							D7	7	
0181	X1			5305-010-0752	SCREW, MACHINE: BRACKET ADJUSTING	EA		1							D7	8	
0182	X1			5305-011-3989	SCREW, MACHINE: BRACKET MTG	EA		1							D7	5	
0183	X1			5310-198-9348	WASHER, FLAT: BLOCK MTG	EA		1							D7	4	
0184	X1				WASHER, LOCK: MTG SCREW	EA		1							D7	6	
0185	X1			5330-841-2729	WASHER, NONMETALLIC: BRACKET SPACING	EA		1							D7	10	
0186	X1			2990-424-2835	LEVER, GOVERNOR CONTROL	EA		1							D7	3	
0187		0		5315-584-1676	PIN, COTTER: WASHER MTG	EA		1	*	*	*	*	*		D7	12	
0188	X1			5315-265-9197	PIN, STRAIGHT, HEADLESS	EA		1							D7	11	

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTY. GY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUSTRATION			
	(a) SOURCE	(b) MAIN	(c) RECOV.						MANUFACTURER'S		(a) 1-20			(b) 21-50	(c) 51-100	FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0189		O		5315-273-7846	PIN, STRAIGHT, THREADED: GOVERNOR												
					SPRING ADJUSTING	EA		1	*	*	*	*	*		D7	20	
0190		O		5310-637-1058	NUT, PLAIN, HEXAGON: ADJUSTING PIN	EA		2	*	*	*	*	*		D7	1	
0191	X2	F	R		GOVERNOR ASSEMBLY	EA		1	*	2	2	20	100				
0192	P	F		2990-661-8942	BEARING, SLEEVE: GOVERNOR THRUST	EA		1	*	*	*	*	1	5	D3	20	
0193		O		5306-356-0965	BOLT, HOOK: GOVERNOR CONTROL	EA		1	*	*	*	*	*	*	D7	19	
0194		F		5305-299-2393	BOLT, MACHINE: YOKE BRACKET MTG	EA		2	*	*	*	*	*	*	D3	1	
0195	X2	F		2990-376-0386	BRACKET, SUPPORT: YOKE SHAFT	EA		1	*	*	*	*	*	*	D3	2	
0196	P	F		2990-701-6853	FLYWEIGHT ASSEMBLY, GOVERNOR	EA		2	*	*	*	*	4	20	D3	21	
0197		F		5315-663-1215	PIN, THRUST: WEIGHT STOP	EA		2	*	*	*	*	*	*	D3	24	
0198	X1			2805-376-0403	GASKET: YOKE BRACKET MTG (COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100) (CAN BE MANUFACTURED FROM PAPER, Stock No. 5330-233-5846)	EA		1							D3	3	
0199	X2	O		2990-301-6374	LEVER, GOVERNOR CONTROL	EA		1	*	*	*	*	*	*	D7	17	
0200		O		5310-637-1056	NUT, PLAIN, HEXAGON: YOKE TO LEVER	EA		1	*	*	*	*	*	*	D7	16	
0201		O		5315-200-9052	PIN, COTTER: HOOK BOLT MTG	EA		1	*	*	*	*	*	*	D7	18	
0202	P	F		5315-141-1651	PIN, SPRING: FLYWEIGHT MTG	EA		2	*	*	*	4	20	D3	22		
0203	X2	F		2910-215-7236	SPACER, SLEEVE: GOVERNOR THRUST	EA		1	*	*	*	*	*	*	D3	16	
0204	P	O		2990-224-8188	SPRING, HELICAL, EXTENSION: LEVER RETURN	EA		1	*	*	*	2	8	D7	15		
0205		O		5310-194-1540	WASHER, FLAT: TENSION SPRING RETAINING	EA		1	*	*	*	*	*	*	D7	14	
0206	P	F		2990-511-7629	YOKE, GOVERNOR	EA		1	*	*	*	1	5	D3	23		
0207	P	O		5340-256-7147	SPRING, HELICAL, COMPRESSION: LEVER TENSION	EA		1	*	*	*	1	5	D7	13		
0208					0009 FUEL FILTERS												
0209	P	O			KIT, STRAINER	EA		1	*	2	2	20	100				
0210	X1			2910-382-8768	BAIL ASSEMBLY, FUEL STRAINER BOWL	EA		1							D6	15	
0211	X1			2910-269-7126	BOWL, SEDIMENT, FUEL	EA		1							D6	14	
0212	X1			2910-142-2738	STRAINER ELEMENT, SEDIMENT	EA		1							D6	12	
0213	X1			5330-187-2962	WASHER, NONMETALLIC: BOWL	EA		1							D6	13	
0214	X2	O		2910-202-8795	STRAINER, SEDIMENT, FUEL (INCLUDES COMPONENTS OF KIT, Stock No. 66289 LQ32)	EA		1	*	*	*	*	*	*	D6	11	
0215					GROUP 04 - EXHAUST SYSTEM												
0216					0401 - MUFFLER AND PIPES												
0217	X2	O			MUFFLER ASSEMBLY	EA		1	*	*	*	*	*	*			
0218	P	O		2990-620-0157	MUFFLER, EXHAUST	EA		1	*	*	*	4	50	D1	23		

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTYGCY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUS-TRATION	
	(a)	(b)	(c)						(a)	(b)	(c)			(a) FIG. NO.	(b) ITEM OR SYM. NO.
	MANUFACTURER'S CODE	PART NUMBER	1-20						21-50	51-100					
0219		0		4730-265-6907	NIPPLE, PIPE: MUFFLER	EA		1	*	*	*	*	*	D1	24
0220					GROUP 05 - COOLING SYSTEM										
0221					0502 - COWLING, DEFLECTORS, AIR DUCTS										
					0502 - COWLING, DEFLECTORS, AIR DUCTS										
					SHROUDS, ETC.										
0222	X2	0			PLATE, DEFLECTOR, HEAT	EA		1	*	*	*	*	*	D15	14
0223		0		5305-275-9838	SCREW, MACHINE: SHROUD MTG	EA		2	*	*	*	*	*	D8	12
0224	X2	0			SHROUD ASSEMBLY, AIR	EA		1	*	*	*	*	*	D8	2
0225		0		5320-383-9268	RIVET, TUBULAR: SIDE SHROUD	EA		2	*	*	*	*	*	D8	4
0226	X2	0			SCREEN, AIR	EA		1	*	*	*	*	*	D8	10
0227	X2	0		2930-384-8486	SHROUD, SIDE	EA		1	*	*	*	*	*	D8	3
0228		0		5310-261-7341	WASHER, LOCK: SHROUD MTG	EA		2	*	*	*	*	*	D8	11
0229					GROUP 06 - ELECTRICAL SYSTEM										
0230					0605 - IGNITION COMPONENTS										
0231		0		5306-207-9138	BOLT, MACHINE: MAGNETO MTG	EA		1	*	*	*	*	*	D10	4
0232	P	0		2920-015-6243	CABLE, IGNITION: SPARK PLUG	EA		1	*	*	*	*	*	D10	1
0233	X1			2920-047-4530	GASKET: MAGNETO MTG	EA		1	*	*	*	2	10	D10	6
					(COMPONENT OF GASKET SET, Stock No. 2805-722-1169, SEE GROUP 0100)									D10	
0234	X2	0		2805-672-9510	GEAR, MAGNETO DRIVE	EA		1	*	*	*	*	*	D9	17
0235	P	0	R	2920-015-6244	MAGNETO	EA		1	*	*	*	1	5	D10	8
					(INCLUDES COMPONENTS OF MAGNETO KIT, Stock No. 2920-893-6031)										
0236	X1			3110-144-8998	BEARING, BALL, ANNULAR: DRIVE END	EA		1						D9	20
0237	X1			2920-286-2712	BEARING, SLEEVE: IMPULSE COUPLING	EA		1						D9	16
0238	X1			2920-354-0750	CAMWICK AND HOLDER ASSEMBLY	EA		1						D9	28
0239	X1				CAP, END	EA		1						D9	46
0240	X1			2920-319-5058	CLIP, COIL	EA		1						D9	3
0241	X1			2920-349-3887	COIL, MAGNETO	EA		1						D9	4
0242	X1			2920-939-9835	COUPLING, MAGNETO DRIVE	EA		1							
0243	X1			2920-981-0763	HUB ASSEMBLY, IMPULSE COUPLING	EA		1						D9	13
0244	X1			2920-773-2109	SPRING, HELICAL, TORSION: PAWL	EA		1						D9	12
0245	X1				SHELL, COUPLING	EA		1						D9	15
0246	X1			2920-354-0741	SPRING, SPIRAL, TORSION: DRIVE	EA		1						D9	14
0247	X1			2920-714-5869	COVER, MAGNETO COIL VENT	EA		2						D9	53
0248	X1			2920-455-7098	HOUSING, MAGNETO	EA		1						D9	5
0249	X1			2920-939-9834	INSULATOR, STANDOFF: CABLE OUTLET	EA		1						D9	48
0250	X1			5313-616-5514	KEY, WOODRUFF: IMPULSE COUPLING TO ROTOR SHAFT	EA		1						D9	22
0251	X1			5310-366-7158	NUT, CASTELLATED, HEXAGON: DRIVE GEAR MOUNTING	EA		1						D9	18

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTY GCY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUSTRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a) 1-20			(b) 21-50	(c) 51-100	(a) FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0252	X1			5315-358-7578	PINLOCK: FULCRUM PIN	82796	C1498G	EA							D9	49	
0253	X1			5305-831-0140	SETSCREW	82796	S2568	EA							D9	7	
0254	X1			2920-354-0766	PLATE ASSEMBLY, BEARING SUPPORT	82796	V4631	EA							D9	26	
0255	X1				PLATE, IDENTIFICATION: MAGNETO	82796	A195	EA							D9	55	
0256	X1			5320-117-7413	RIVET: PLATE MTG	82796	A195	EA							D9	56	
0257	X1			2920-444-8599	ROD, HIGH TENSION LEAD	82796	P983	EA							D9	37	
0258	X1			2920-315-1970	ROTOR, MAGNETO	82796	DW2480	EA							D9	23	
0259	X1			5305-103-2684	SCREW, ASSEMBLED WASHER	82796	6S3W	EA							D9	1	
0260	X1			5305-045-1626	SCREW, ASSEMBLED WASHER: CONTACT												
					PLATE AND CAMWICK MTG	82796	8S6U	EA							D9	30	
0261	X1			5305-637-6648	SCREW, ASSEMBLED WASHER: CONTACT												
					PLATE LOCKING	82796	6S6U	EA							D9	50	
0262	X1			5305-281-6387	SCREW, ASSEMBLED WASHER: END CAP												
					MOUNTING	82796	10S100	EA							D9	45	
0263	X1			5305-751-8654	SCREW, MACHINE	82796	6S4L	EA							D9	52	
0264	X1			5305-206-8263	SCREW, MACHINE: BEARING PLATE MTG	82796	8S6G	EA							D9	25	
0265	X1			9510-266-9268	SCREW, MACHINE: CONDENSER MTG	82796	6S6D	EA							D9	35	
0266	X1			5305-733-8746	SCREW, MAGNETO BLOCK	82796	8S8N	EA							D9	32	
0267	X1				SCREW, TAPPING: TERMINAL MTG	82796	6S6Z	EA							D9	31	
0268	X1			5305-707-4008	SETSCREW: COIL LOCKING	82796	31SS14A	EA							D9	6	
0269	X1				SWITCH ASSEMBLY, STOP	82796	JX2514C	EA									
0270	X1				BUSHING, INSULATOR: SWITCH	82796	K2457A	EA							D9	38	
0271	X1			2920-939-9836	BUTTON, SWITCH	82796	C2741	EA							D9	44	
0272	X1				FERRULE, SWITCH PLUNGER	82796	M1077	EA							D9	40	
0273	X1			5310-428-7558	NUT, PLAIN, KNURLED: SWITCH	82796	D2735A	EA							D9	43	
0274	X1				PLUNGER, SWITCH	82796	CW2514	EA							D9	41	
0275	X1				SPACER, SWITCH	82796	F4373	EA							D9	42	
0276	X1				SPRING, SWITCH	82796	E2513A	EA							D9	39	
0277	X1			5310-647-2054	WASHER, FLAT: CONTACT PLATE AND												
					CAMWICK MTG	82796	B5969	EA							D9	29	
0278	X1			5310-270-2172	WASHER, FLAT: CONTACT PLATE LOCKING	82796	D2458	EA							D9	51	
0279	X1			5310-013-8473	WASHER, LOCK: COIL CLIP MTG										D9	2	
0280	X1			2920-699-1268	WASHER, LOCK: CONDENSER MTG	82796	8LW5	EA							D9	34	
0281	X1				WIRE, FABRIC, VENT	82796	C6032B	EA							D9	54	
0282	M	F		2920-714-5868	WIRE, LOCK: GEAR NUT	82796	C6032B	EA							D9	19	
					MANUFACTURE FROM:												
0282A	P	F		9505-198-9104	WIRE, STEEL (1 1/8 IN. REQUIRED)			RL		SEE GRP 950A							
0283	P	O		2920-893-6031	PARTS KIT, IGNITION	82796	SK79	EA		*	2	2	20	100			
0284	X1			2920-428-7543	BEARING, SLEEVE: CONTACT PLATE	82796	A5950A	EA							D9	24	
0285	X1			5340-246-3405	CLIP, RETAINING: ROTOR DRIVE END												
					SHAFT	82796	B1498D	EA							D9	8	
0286	X1			5910-280-6347	CONDENSER, MAGNETO	82796	QX2433	EA							D9	33	
0287	X1			2920-319-5055	CONTACT SET, DISTRIBUTOR	82796	A2437A	EA							D9	27	
0288	X1			2920-523-8602	GASKET: END CAP	82796	K2498	EA							D9	47	

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	(a) SOURCE	(b) MAINT.	(c) RECOV.						(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG. NO.	(b) ITEM OR SYM. NO.	
	CODE	MANUFACTURER'S	CODE													PART NUMBER
0289	X1			5305-281-6387	SCREW, ASSEMBLED WASHER: END CAP MTG	EA		2							D9	45
0290	X1				SEAL, CONDENSER	EA		1							D9	36
0291	X1			2920-356-1221	SEAL, PLAIN	EA		1							D9	10
0292	X1			2920-358-7945	SHIM (1)	EA		0								
0293	X1			5340-143-5280	RING, RETAINING: BALL BEARING	EA		1							D9	21
0294	X1			5310-205-7981	RETAINING WASHER, FLAT: SEAL, INNER	EA		1							D9	9
0295	X1			5310-285-1591	WASHER, FLAT: SEAL, OUTER	EA		1							D9	11
0296		0		5310-188-7848	NUT, PLAIN, HEXAGON: MAGNETO MTG	EA		1	*	*	*	*	*	*	D10	9
0297		0		5305-206-1071	SCREW, CAP, HEXAGON HEAD: MAGNETO MTC	EA		1	*	*	*	*	*	*	D10	7
0298	P	0		2920-810-7082	SPARK PLUG: SHIELDED	EA		1	2	2	4	50	100		D10	2
0299	P	0		2920-505-6185	GASKET: SPARK PLUG	EA		1	*	*	*	*	*	*	D10	3
0300		0		5310-070-3320	WASHER, LOCK: MAGNETO MTG	EA		3	*	*	*	*	*	*	D10	3
0301					GROUP 15 - RADIO INTERFERENCE SUPPRESSION											
0302		0		5310-012-0377	NUT, PLAIN, HEXAGON: GROUND STRAP TO FRAME	EA		1	*	*	*	*	*	*	D11	5
0303		0		5305-269-3211	SCREW, CAP, HEXAGON HEAD: GROUND STRAP TO FRAME	EA		1	*	*	*	*	*	*	D11	17
0304	X2	0			STRAP, GROUND	EA		1	*	*	*	*	*	*	D11	4
0305		0		5310-275-9263	WASHER, LOCK: GROUND STRAP TO GROUND	EA		2	*	*	*	*	*	*	D11	12
0306					GROUP 15 - FRAME											
0307					1501 - FRAME ASSEMBLY											
0308	X2	0			FRAME ASSEMBLY	EA		1	*	*	*	*	*	*	D11	2
0309					GROUP 18 - BODY, CAB, HOOD AND HULL											
0310					1808 - BOXES											
0311	X2	0			BOX, STORAGE: ACCESSORY	EA		1	*	*	*	*	*	*	D11	1
0312					GROUP 22 - MISCELLANEOUS BODY CHASSIS OR HULL, AND ACCESSORY ITEMS											
0313					2210 - DATA PLATES											
0314	X2	0			PLATE, IDENTIFICATION: COMPRESSOR	EA		1	*	*	*	*	*	*		
0315	X2	0			PLATE, IDENTIFICATION: UNIT	EA		1	*	*	*	*	*	*		
0316	X2	0			PLATE, INSTRUCTION: ENGINE	EA		1	*	*	*	*	*	*		
0317	X2	0			PLATE, INSTRUCTION, OPERATING	EA		1	*	*	*	*	*	*		

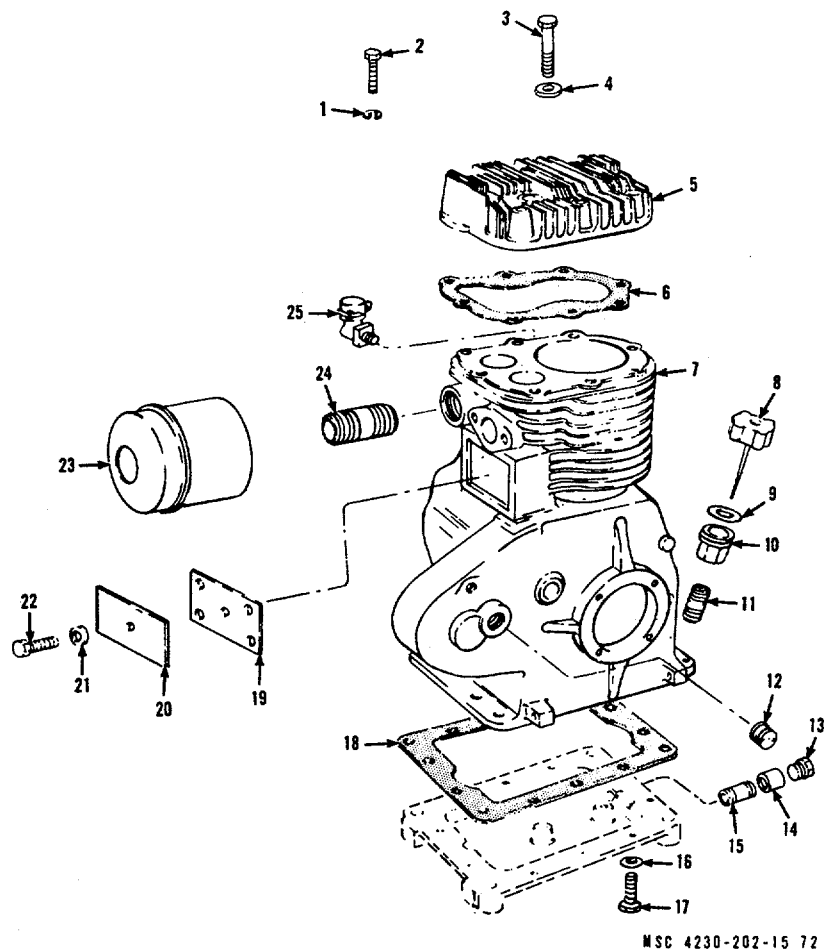
LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER 100 EQUIP. CTYGCY. PLANNING	(9) DEPOT MAINT. ALW. PER 100 EQUIP.	(10) ILLUS-TRATION			
	(a) SOURCE	(b) MAIN.	(c) RECOV.						MANUFACTURER'S		(a) 1-20			(b) 21-50	(c) 51-100	(a) FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0318	X2	O		5320-061-8213	RIVET, PULL: ENGINE PLATE	66289	XJ58	EA	4	*	*	*	*	*			
0319		O			RIVET, SOLID: OPERATING INSTRUCTION PLATE MTG	32242	49-22786	EA	4	*	*	*	*	*			
0320					GROUP 47 - GAGES												
0321					4702 - GAGES												
0322	P	O		6620-015-6271	GAGE, PRESSURE: DISCHARGE MANIFOLD	81966	14431-1526	EA	1	*	*	*	2	5	D15	6	
0323					GROUP 50 - PNEUMATIC EQUIPMENT												
0324					5000 - AIR COMPRESSOR ASSEMBLY												
0325		F		5306-018-0087	BOLT, MACHINE: COMPRESSOR MTG	32242	69-14424-79	EA	2	*	*	*	*	*	D11	13	
0326	X2	F		5340-790-7869	BUSHING, MOUNTING: COMPRESSOR	32242	61-34852	EA	2	*	*	*	*	*	D11	16	
0327	X2	F		4310-790-6350	BUSHING, SLEEVE: COMPRESSOR MTG	32242	60-34854	EA	2	SEE GRP 990					D11	9	
0328	P	F	R	4310-015-6180	COMPRESSOR ASSEMBLY, AIR	32242	66-30201	EA	1	*	*	*	1	5			
0329	X2	F		4310-790-6348	PAD, VIBRATION MOUNT: COMPRESSOR	32242	60-34853	EA	4	SEE GRP 990					D11	10	
0330		F		5310-790-7837	WASHER, FLAT: COMPRESSOR	32242	61-34850	EA	4	*	*	*	*	*	D11	15	
0331		F		5310-012-0379	WASHER, LOCK: COMPRESSOR MTG	32242	69-1500-79	EA	2	*	*	*	*	*	D11	14	
0332					5001 - CRANKCASE CYLINDER HEAD												
0333	X2	F			BASE, COMPRESSOR HOUSING	32242	61-34842	EA	1	*	*	*	*	*	D14	22	
0334		F		5306-021-5375	BOLT, MACHINE: BASE MTG	32242	69-2067-79	EA	4	*	*	*	*	*	D14	21	
0335	X2	O		4310-980-5071	HEAD, CYLINDER: COMPRESSOR	32242	61-34815	EA	2	*	*	*	*	*	D13	3	
0336	X2	F			HOUSING, COMPRESSOR	32242	61-34814	EA	1	*	*	*	*	*	D12	4	
0337		O		5315-014-1147	PIN, STRAIGHT, HEADLESS: CYLINDER HEAD TO HOUSING	32242	61-34717	EA	4	*	*	*	*	*	D14	23	
0338		O		5305-285-5200	SCREW, CAP, SOCKET HEAD: CYLINDER HEAD MOUNTING	32242	69-14412-79	EA	24	*	*	*	*	*	D13	16	
0339		F		5310-012-0379	WASHER, LOCK: BASE MTG	32242	69-1500-79	EA	4	*	*	*	*	*	D14	3	
0340		O		5310-012-0379	WASHER, LOCK: CYLINDER HEAD MTG	32242	69-1500-79	EA	24	*	*	*	*	*	D13	17	
0341					5002 - CRANKSHAFT												
0342	P	F		3110-155-6672	BEARING, BALL, ANNULAR: CRANKSHAFT	43334	77306	EA	2	*	*	*	*	*	D12	14	
0343	P	F		4310-015-6181	CRANKSHAFT, COMPRESSOR	32242	60-40407	EA	1	*	*	*	2	4	D12	16	
0344	X2	F			KEY, MACHINE: DRIVE COUPLING TO SHAFT	32242	61-41076	EA	1	*	*	*	*	*	D14	24	
0345		F		5315-050-5753	KEY, MACHINE: FLYWHEEL MTG	32242	61-34832	EA	1	*	*	*	*	*	D14	20	
0346	X2	F			RETAINER, BEARING	32242	61-34817	EA	1	*	*	*	*	*	D12	13	
0347		F		5305-052-2221	SCREW, MACHINE: BEARING RETAINER MTG	32242	61-14417-79	EA	4	*	*	*	*	*	D12	12	
0348		F		5310-013-8617	WASHER, LOCK: BEARING RETAINER MTG	32242	69-14418-79	EA	4	*	*	*	*	*	D12	11	

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	(a) SOURCE	(b) MAINT.	(c) RECOV.						(a) FIG. NO.	(b) ITEM OR SYM. NO.						
											1-20			21-50	51-100	
0349					5003 - FLYWHEEL ASSEMBLY 5003 - FLYWHEEL ASSEMBLY											
0350	X2	F			FLYWHEEL, COMPRESSOR	EA		1	*	*	*	*	*	D14	7	
0351		F	5305-639-8086		SETScrew: FLYWHEEL	EA		2	*	*	*	*	*	D14	8	
0352					5004 - PISTONS, CONNECTING RODS, AND ROTORS											
0353	P	F	3110-155-6709		BEARING, BALL, ANNULAR: PISTON	EA		2	2	2	2	25	50	D12	15	
0354	P	O	4310-790-6351		DIAPHRAGM, COMPRESSOR	EA		2	2	2	2	50	100	D12	8	
0355	P	F	2905-051-3548		PISTON ASSEMBLY, COMPRESSOR	EA		2	2	2	2	25	50			
0356	X1				PISTON, COMPRESSOR	EA		2						D12	7	
0357		F	5305-274-2352		SCREW, CAP, SOCKET HEAD: PISTON	EA		4	*	*	*	*	*	D12	5	
0358		F	5310-012-0379		WASHER, LOCK: PISTON	EA		4	*	*	*	*	*	D12	6	
0359	X2	O	4310-790-6352		PLATE, DIAPHRAGM: COMPRESSOR	EA		2	*	*	*	*	*	D12	9	
0360		O			SCREW, MACHINE: DIAPHRAGM PLATE MTG	EA		14	*	*	*	*	*	D12	10	
0361					5005 - VALVES											
0362	P	O	5330-842-6535		GASKET: OUTLET VALVE	EA		2	2	4	8	100	200	D13	18	
0363	X2	O			NUT, RETAINER: INTAKE VALVE	EA		2	*	*	*	*	*	D13	11	
0364	X1				BASE, OUTLET VALVE	EA		2						D13	20	
0365	X1				PLATE, VALVE	EA		2						D13	15	
0366	X1				SCREEN, VALVE	EA		2						D13	19	
0367	X1		5305-285-1271		SCREW, MACHINE: STOP MTG	EA		2						D13	12	
0368	X1				SPRING, HELICAL, COMPRESSION: OUTLET VALVE	EA		2						D13	14	
0369	X1				STOP, VALVE	EA		2						D13	13	
0370	P	O	5310-015-6182		VALVE, INLET: COMPRESSOR	EA		2	*	2	2	20	40	D13	2	
0370A	P	O	4310-790-6355		VALVE, DISCHARGE: COMPRESSOR	EA		2	*	2	2	20	40			
0371					5007 - COMPRESSOR DRIVE											
0372	X2	F			COUNTERBALANCE, COUPLING	EA		1	*	*	*	*	*	D14	2	
0373	X2	F			COUPLING, D5002 - CRANKSHAFT	EA		1	*	*	*	*	*	D14	1	
0374	X2	F			HOUSING, AD ENGINE	EA		1	*	*	*	*	*	D12	1	
0375		F	5305-269-3213		SCREW, CAP, HEXAGON HEAD: HOUSING TO COMPRESSOR	EA		4	*	*	*	*	*	D12	2	
0376		F	5305-269-3211		SCREW, CAP, HEXAGON HEAD: HOUSING TO ENGINE MTG	EA		4	*	*	*	*	*	D14	25	
0377		F	5305-983-5347		SCREW, CAP, SOCKET HEAD: COUNTERBALANCE MOUNTING	EA		2	*	*	*	*	*	D14	4	
0378		F	5310-012-0379		WASHER, LOCK: COUNTERBALANCE MTG	EA		2	*	*	*	*	*	D14	3	

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTY GCY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUS-TRATION			
	(a) SOURCE	(b) MAINT.	(c) RECOV.						MANUFACTURER'S		(a) 1-20			(b) 21-50	(c) 51-100	(a) FIG. NO.	(b) ITEM OR SYM. NO.
									CODE	PART NUMBER							
0379		F		5310-012-0382	WASHER, LOCK: HOUSING MTG	EA		8	*	*	*	*	*	D12	3		
0380					5008 - AIR INTAKES 5008 - AIR INTAKES												
0381	X2	O	R		CLEANER, AIR: COMPRESSOR	EA		2	*	*	*	*	*	D15	12		
0382	P	O		5340-820-0036	DISK, SOLID, PLAIN: CLEANER	EA		2	2	4	8	100	200	D13	9		
0383	X2	O			LOCKNUT, ELECTRICAL CONDUIT: CLEANER NIPPLE	EA		4	*	*	*	*	*	D13	5		
0384	X2	O		4730-196-1493	NIPPLE, PIPE: AIR CLEANER MTG	EA		2	*	*	*	*	*	D13	4		
0385	X2	O			SCREEN, CLEANER: INNER	EA		2	*	*	*	*	*	D13	8		
0386	X2	O			SCREEN, CLEANER: OUTER	EA		2	*	*	*	*	*	D13	10		
0387	X2	O			SHELL, CLEANER	EA		2	*	*	*	*	*	D13	7		
0388	X2	O			WASHER, FLAT: CLEANER NIPPLE	EA		4	*	*	*	*	*	D13	6		
0389					5010 - COMPRESSOR COOLING												
0390	O			5306-225-8507	BOLT, MACHINE: BLOWER SHROUD MTG	EA		4	*	*	*	*	*	D14	6		
0391	O			5306-225-9091	BOLT, MACHINE: BLOWER WHEEL MTG	EA		1	*	*	*	*	*	D14	15		
0392	X2	O			COVER, SCROLL: SCREEN RETAINING	EA		1	*	*	*	*	*	D14	17		
0393	X2	O			SCREEN, BLOWER SCROLL	EA		1	*	*	*	*	*	D14	16		
0394	O			5305-011-0582	SCREW, MACHINE: SCROLL COVER MTG	EA		4	*	*	*	*	*	D14	19		
0395	O			5305-012-0585	SCREW, MACHINE: SCROLL MTG	EA		4	*	*	*	*	*	D14	12		
0396	O				SCROLL, BLOWER	EA		1	*	*	*	*	*	D14	9		
0397	X2	O			SHROUD, BLOWER	EA		1	*	*	*	*	*	D14	5		
0398	O			5310-012-0379	WASHER, LOCK: BLOWER AND SHROUD MTG	EA		5	*	*	*	*	*	D14	3		
0399	O			5310-527-3288	WASHER, LOCK: SCROLL COVER MTG	EA		4	*	*	*	*	*	D14	18		
0400	O			5310-012-0380	WASHER, LOCK: SCROLL MTG	EA		4	*	*	*	*	*	D14	10		
0401	X2	O			WHEEL ASSEMBLY, BLOWER	EA		1	*	*	*	*	*				
0403	O			5305-013-2688	SCREW, MACHINE: INLET VALVE MTG	EA		4	*	*	*	*	*	D13	1		
0404	O			5315-282-1253	PIN, SPRING: BLOWER WHEEL	EA		1	*	*	*	*	*	D14	13		
0405	X1				WHEEL, BLOWER	EA		1	*	*	*	*	*	D14	14		
0406					5015 - AIR DISCHARGE SYSTEM												
0407	O			4730-270-4007	ADAPTER, STRAIGHT, PIPE TO TUBE: DISCHARGE TUBE	EA		2	*	*	*	*	*	D15	10		
0408	X2	O			BRACKET, MANIFOLD	EA		1	*	*	*	*	*	D15	20		
0409	X2	O			CLAMP, MANIFOLD	EA		2	*	*	*	*	*	D15	7		
0410	X2	O			COCK, DRAIN: MANIFOLD	EA		1	*	*	*	*	*	D15	15		
0411	X2	O			COUPLER, QUICK DISCONNECT: MANIFOLD OUTLET	EA		10	*	*	*	*	*	D15	11		
0412	O			4730-277-9174	ELBOW, PIPE TO TUBE: DISCHARGE TUBE	EA		2	*	*	*	*	*	D15	13		
0413	X2	O			TO RETAINER NUT MANIFOLD, DISCHARGE	EA		1	*	*	*	*	*	D15	8		

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER. 100 EQUIP. CTYGCY. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUSTRATION	
	(a) SOURCE	(b) MAINT.	(c) RECOV.											(a) FIG. NO.	(b) ITEM OR SYN. NO.
									MANUFACTURER'S	1-20	21-50			51-100	
			CODE	PART NUMBER											
0414		0		4730-718-2654	NIPPLE, PIPE: SAFETY VALVE TO MANIFOLD	EA		1	*	*	*	*	*	D15	3
0415		0		5305-983-5347	SCREW, CAP, SOCKET HEAD: MANIFOLD BRACKET MTG	EA		2	*	*	*	*	*	D15	18
0416		0			SCREW, MACHINE: MANIFOLD CLAMP MTG	EA		4	*	*	*	*	*	D15	5
0417	X2	0			TEE, PIPE: SAFETY VALVE	EA		1	*	*	*	*	*	D15	2
0418	M	0			TUBE, DISCHARGE	EA		2	*	*	*	*	*	D15	9
0418A	X2	0		4730-012-0141	MANUFACTURE FROM: NUT, TUBE COUPLING	EA		4	*	*	*	*	*		
0418B	P	0		4710-277-5522	TUBE, COPPER (10 IN. REQUIRED FOR EACH TUBE)	CO			SEE GRP 950			*	*		
0419		0		5310-012-0379	WASHER, LOCK: MANIFOLD BRACKET MTG	EA		2	*	*	*	*	*	D15	19
0420		0		5310-012-0380	WASHER, LOCK: MANIFOLD CLAMP MTG	EA		4	*	*	*	*	*	D15	4
0421	X2	0			VALVE, SAFETY: DISCHARGE MANIFOLD	EA		2	*	*	*	*	*	D15	1
0422					GROUP 58 - DECONTAMINATION EQUIPMENT COMPONENTS										
0423					GROUP 58 - DECONTAMINATION EQUIPMENT COMPONENTS										
0424	X2	0			CLAMP, HOSE: DISPENSING HOSE	EA		20	*	*	*	*	*	D16	8
0425	X2	0			COUPLER, QUICK DISCONNECT: HOSE TO GUN	EA		10	*	*	*	*	*	D16	7
0426	P	0		4230-977-0969	DUSTING GUN ASSEMBLY	EA		10	*	*	*	2	5		
0427		0		4730-266-0531	ADAPTER, STRAIGHT, PIPE TO TUBE: TUBE TO HANDLE	EA		20	*	*	*	*	*	D16	18
0428	X2	0			CANISTER, DUSTING	EA		10	*	*	*	*	*	D16	14
0429	X1				BOLT, TOGGLE: COVER LOCKING	EA		10	*	*	*	*	*	D16	13
0430	X1				COVER, CANISTER	EA		10	*	*	*	*	*	D16	19
0431	P	0			GASKET: CANISTER COVER	EA		10	10	21	42	500	1000	D16	15
0432	X1				PLATE, STRIKER	EA		10	*	*	*	*	*	D16	20
0433	X1				RIVET, GOLT	EA		20	*	*	*	*	*	D16	12
0434	X1			5320-061-8213	RIVET, SOLID: STRIKER MTG	EA		20	*	*	*	*	*	D16	21
0435	P	0		5330-248-3838	PACKING, PREFORMED: AIR INLET AND OUTLET TUBE TO HANDLE	EA		20	20	42	84	1000	2000	D16	23
0436	X2	0			HANDLE, GUN	EA		10	*	*	*	*	*	D16	4
0437	X2	0			NOSE, HANDLE	EA		10	*	*	*	*	*	D16	2
0438		0		5315-582-2466	PIN, SPRING: TRIGGER MTG	EA		20	*	*	*	*	*	D16	5
0439	X1				SETSCREW, DRILL PASSAGE	EA		10	*	*	*	*	*	D16	3
0440		0		5305-012-7782	SETSCREW: VALVE RETAINING	EA		10	*	*	*	*	*	D16	25
0441	X2	0			TRIGGER, GUN	EA		10	*	*	*	*	*	D16	11
0442	X2	0		4230-977-0972	TUBE ASSEMBLY, AIR INLET	EA		10	*	*	*	*	*	D16	16
0443	X2	0			NUT, TUBE COUPLING	EA		10	*	*	*	*	*		
0444	X2	0			SLEEVE, COMPRESSION: TUBE NUT	EA		10	*	*	*	*	*		
0445	X1				TUBE, INLET, AIR	EA		10	*	*	*	*	*		

LINE NO.	(1) SOURCE, MAINT. AND RECOV. CODE			(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 30-DAY DS/GS MAINT. ALW.			(8) 1-YR. ALW. PER 100 EQUIP. CTY/GCT. PLANNING	(9) DEPOT MAINT. ALW. PER. 100 EQUIP.	(10) ILLUSTRATION			
	(a)	(b)	(c)						MANUFACTURER'S		(a)			(b)	(c)	(a)	(b)
									CODE	PART NUMBER							
0446	P	0		4230-977-0974	TUBE ASSEMBLY, DISCHARGE	EA		10	2	2	2	25	50	D16	1		
0447	X2	0		4230-977-0971	TUBE ASSEMBLY, DUST OUTLET	EA		10	*	*	*	*	*	D16	17		
0448	X2	0			NUT, TUBE COUPLING	EA		10	*	*	*	*	*				
0449	X2	0			SLEEVE, COMPRESSION: TUBE NUT	EA		10	*	*	*	*	*				
0450	X1				TUBE, OUTLET, DUST	EA		10									
0451	P	0		4230-971-0970	VALVE ASSEMBLY, TRIGGER	EA		10	2	2	2	25	50				
0452	X1				BODY, VALVE	EA		10						D16	29		
0453	X1				CAP, VALVE	EA		10						D16	22		
0454	P	0		3740-065-8559	GASKET: BODY	EA		10	10	21	42	500	1000	D16	28		
0455	P	0		5330-252-6048	PACKING, PREFORMED, CAP	EA		10	10	21	42	500	1000	D16	30		
0456	X1				SPRING, VALVE	EA		10						D16	24		
0457	X1				STEM, VALVE	EA		10						D16	26		
0458	X1				WASHER, BODY	EA		10						D16	27		
0459	X2	0			HOSE, AIR: DISPENSING	EA		10	*	*	*	*	*	D16	9		
0460	X2	0			PLUG, AIR: GUN TO HOSE	EA		10	*	*	*	*	*	D16	6		
0461	X2	0			PLUG, AIR: HOSE TO MANIFOLD	EA		10	*	*	*	*	*	D16	10		
0462					Group 95-GENERAL USE STANDARDIZED PARTS												
					9501-BULK MATERIAL												
0463					9501 - BULK MATERIAL												
0464	P	0		5330-233-5847	PAPER GASKET: 3/16 IN W. 1/16 IN THK	YD			*	*	*	2	5				
0465	P	0		4710-277-6110	TU GROUP 99-PARTS PECULIAR	FT			*	*	*	5	10				
0466	P	0		4710-277-5525	TU 9901-PARTS PECULIAR WITH MORE THAN	FT			*	*	*	3	6				
0467	P	F		9505-198-9104	WI ONE APPLICATION	RL			*	*	*	2	4				
0468					GROUP 99 - PARTS PECULIAR												
0469					9901 - PARTS PECULIAR WITH MORE THAN ONE APPLICATION												
0470	X2	F		4310-790-6350	BUSHING, SLEEVE	EA		6	*	*	*	*	*				
0471	P	F		2805-356-0940	GASKET: OIL SEAL	EA		2	2	2	4	50	100				
0472	X2	F		4310-790-6348	PAD, VIBRATION MOUNT	EA		12	*	*	*	*	*				
0473	P	F		5330-298-5744	RETAINER, PACKING	EA		2	2	2	4	50	100				

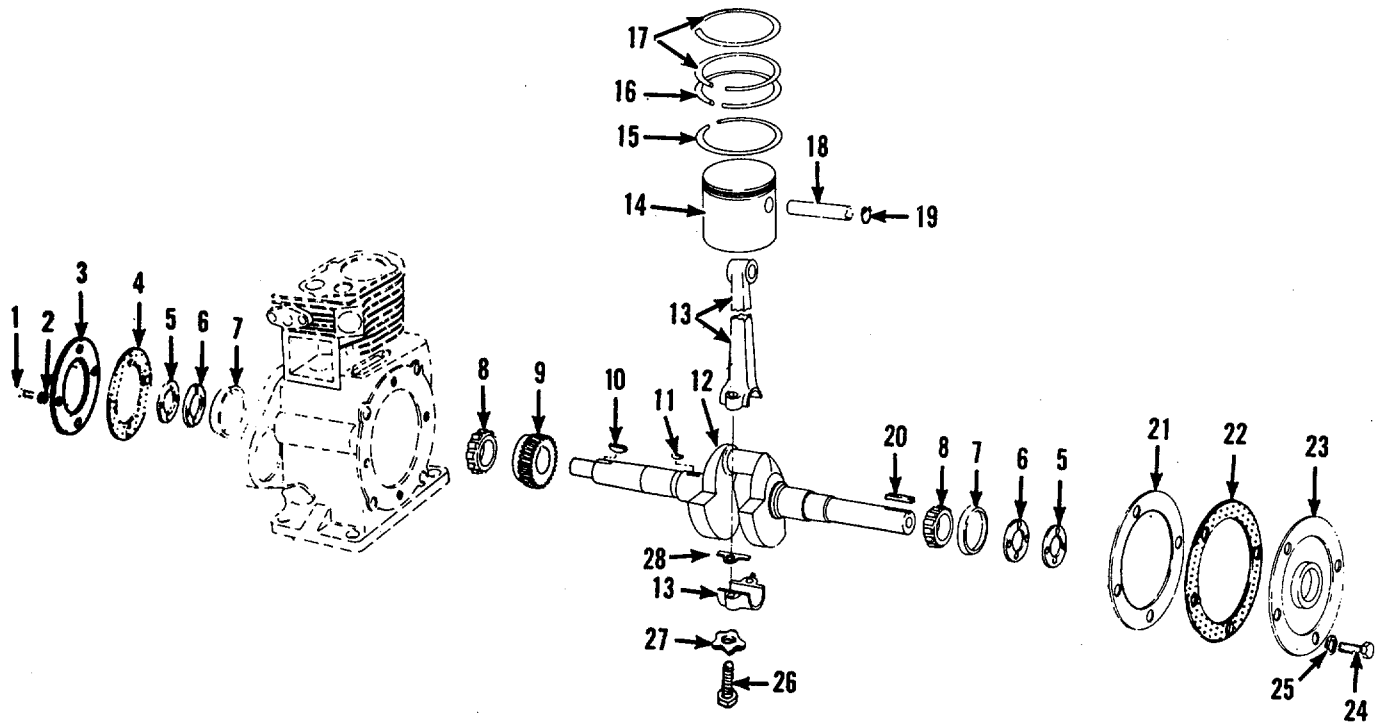


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Figure D1. Crankcase and Cylinder Head.

INDEX TO PARTS, FIGURE D1

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0101	WASHER	10	0106	BODY	18	0106	GASKET
2	0101	BOLT	11	0106	NIPPLE	19	0105	GASKET
3	0101	BOLT	12	0101	PLUG	20	0105	PLATE
4	0101	WASHER	13	0106	PLUG	21	0105	WASHER
5	0101	CYLINDER HEAD	14	0106	COUPLING	22	0105	SCREW
6	0101	GASKET	15	0106	NIPPLE	23	0401	MUFFLER
7	0101	CRANKCASE	16	0106	WASHER	24	0401	NIPPLE
8	0106	CAP	17	0106	BOLT	25	0106	BREATHER
9	0106	GASKET						

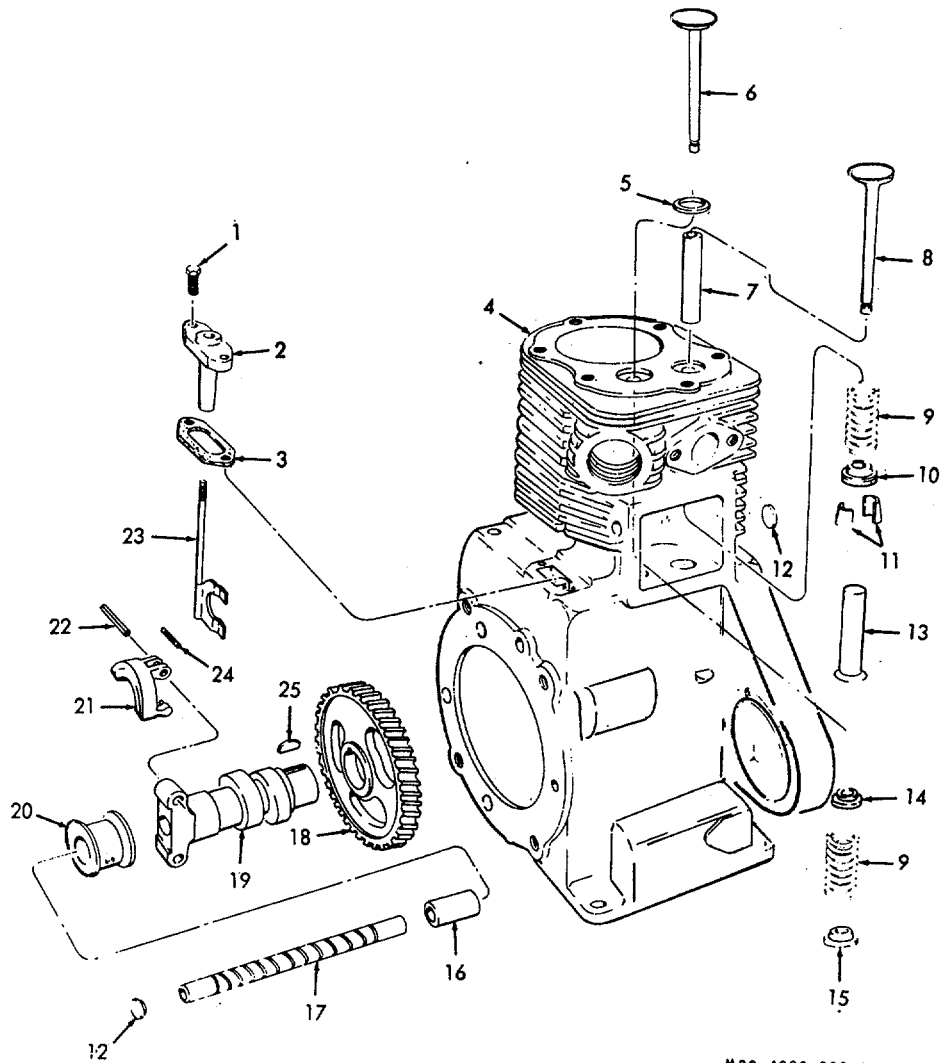


MSC 4230-202-15/73

Figure D2. Engine Crankshaft and Piston.

INDEX TO PARTS, FIGURE D2

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0102	BOLT	11	0102	KEY	20	0102	KEY
2	0102	WASHER	12	0102	CRANKSHAFT	21	0102	GASKET
3	0102	PLATE	13	0104	ROD	22	0102	GASKET
4	0102	GASKET	14	0104	PISTON	23	0102	PLATE
5	0102	GASKET	15	0104	RING	24	0102	BOLT
6	0102	RETAINER	16	0104	RING	25	0102	WASHER
7	0102	CUP	17	0104	RING	26	0104	BOLT
8	0102	CONE-ROLLERS	18	0104	PIN	27	0104	WASHER
9	0105	GEAR	19	0104	RING	28	0104	SHIM
10	0102	KEY						

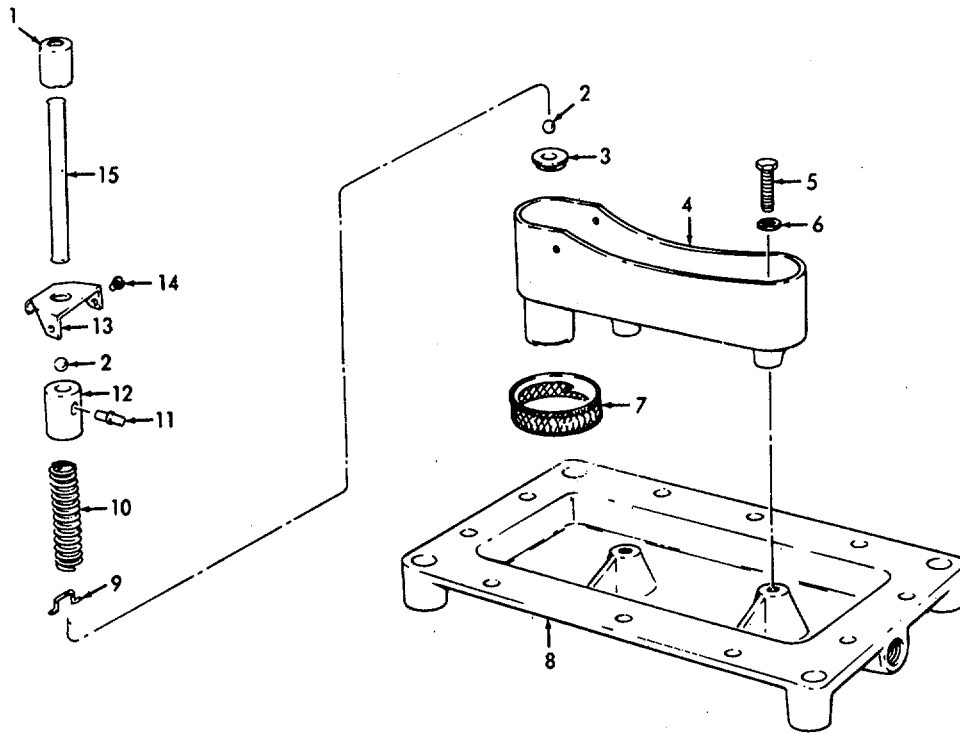


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Figure D3. Cylinder, Crankcase, Camshaft and Valves.

INDEX TO PARTS, FIGURED03

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0308	BOLT	10	0105	SEAT	18	0105	GEAR
2	0308	BRACKET	11	0105	LOCK	19	0105	CAMSHAFT
3	0308	GASKET	12	0101	PLUG	20	0308	BEARING
4	0101	CRANKCASE	13	0105	TAPPET	21	0308	FLYWEIGHT AY
5	0105	INSERT	14	0105	SEAT	22	0308	PIN
6	0105	VALVE	15	0105	ROTATOR	23	0308	YOKE
7	0105	GUIDE	16	0308	SPACER	24	0308	PIN
8	0105	VALVE	17	0105	PIN	25	0105	KEY
9	0105	SPRING						

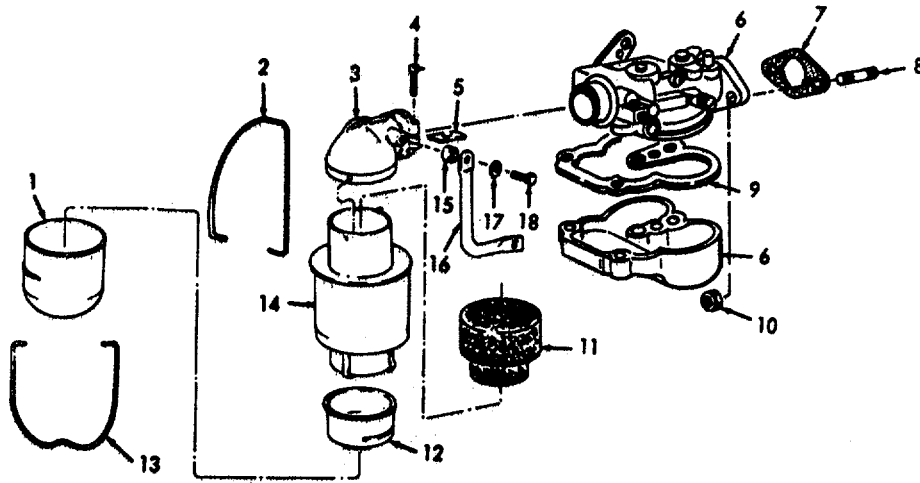


EMC 4310-237-15/48

Figure D4. Oil Pump and Engine Base.

INDEX. TO PARTS, FIGURE D4

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0106	CAP	9	0106	RETAINER
2	0106	BALL	10	0106	SPRING
3	0106	SEAT	11	0106	PIN
4	0106	BODY	12	0106	PLUNGER
5	0106	SCREW	13	0106	COVER
6	0106	WASHER	14	0106	SCREW
7	0106	STRAINER-ELEMT	15	0106	PIN
8	0106	BASE			

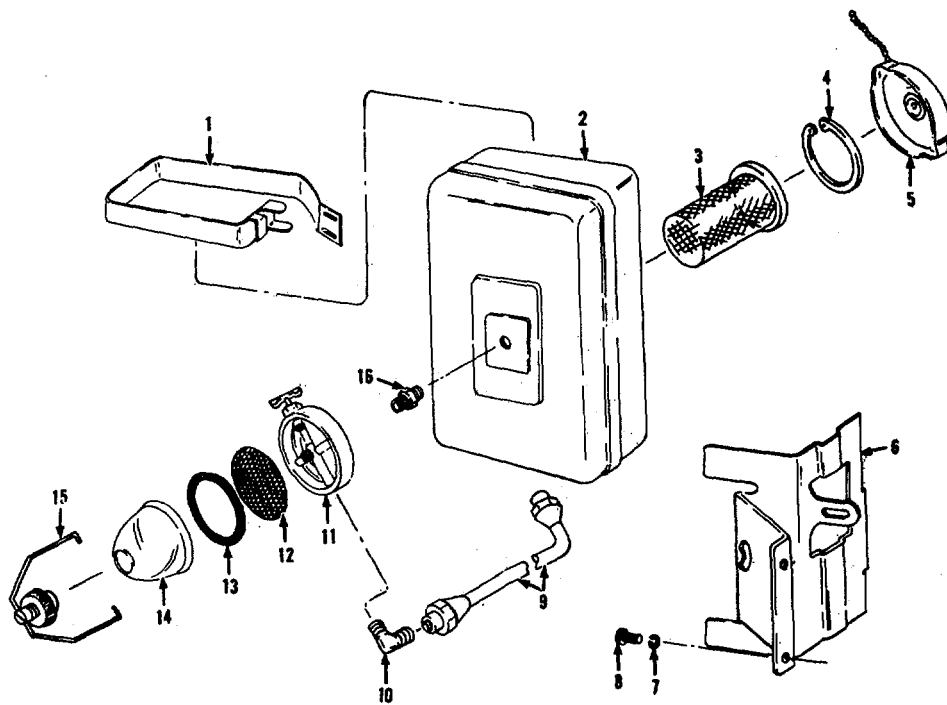


MSB 4230-202-15/76

Figure D5. Air Cleaner and Carburetor.

INDEX TO PARTS, FIGURE D5

REF NO,	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0304	CUP	10	0301	NUT
2	0304	BAIL	11	0304	FILTER
3	0304	BRACKET AY	12	0304	BAFFLE
4	0304	SCREW	13	0304	BRACKET
5	0304	GASKET	14	0304	BOOTY
6	0301	CARBURETOR	15	0304	SPACER
7	0301	GASKET	16	0304	STRAP
8	0101	STUD	17	0304	WASHER
9	0301	GASKET	18	0304	SCR EW

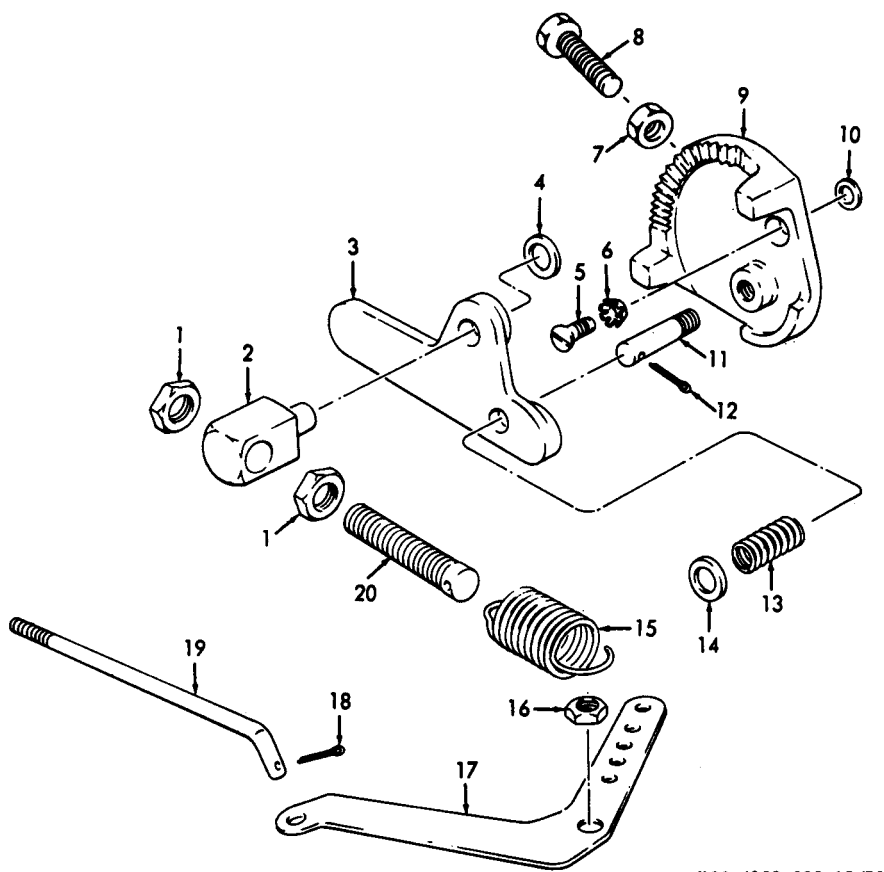


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Figure D6. Fuel Tank and Strainer.

INDEX TO PARTS, FIGURE D6.

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0306	STRAP	7	0306	WASHER	12	0009	STRAINER ELEMNT
2	0306	TANK	8	0306	BOLT	13	0309	WASHER
3	0306	STRAINER	9	0306	TUBE AY	14	0309	BOWL
4	0306	RING	10	0306	ELBOW	15	0309	BAIL AY
5	0306	CAP	11	0309	STRAINER	16	0306	STANDPIPE
6	0306	BRACKET						

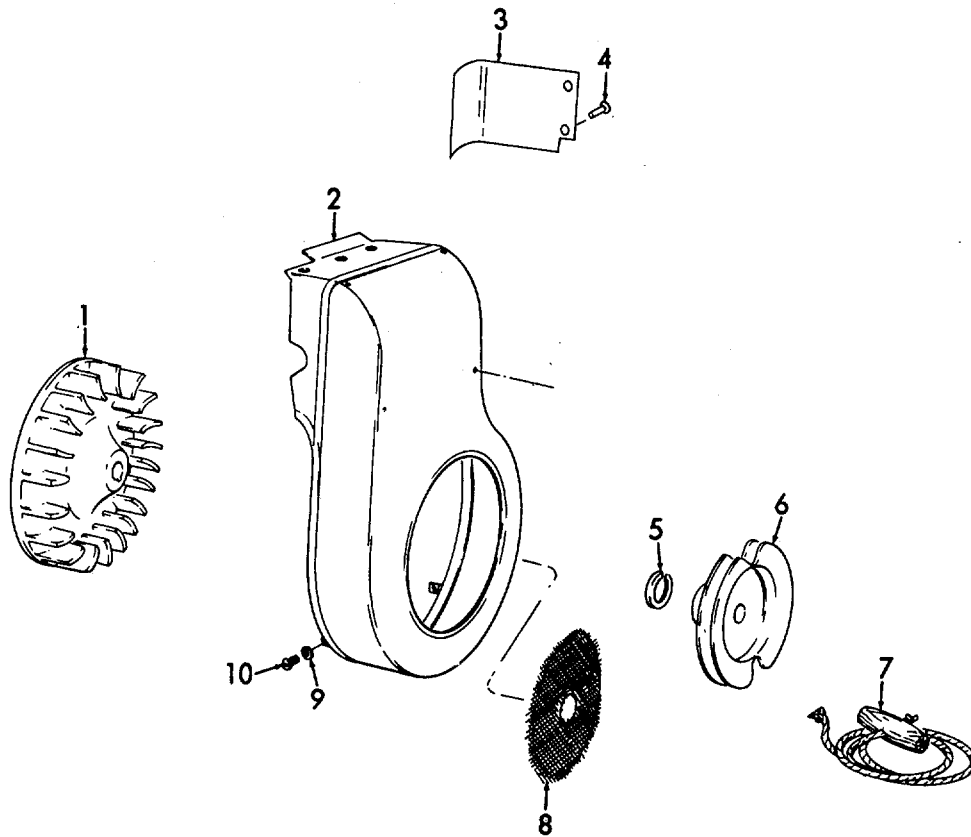


MSC 4230-202-15/76

Figure D7. Governor Control Linkage.

INDEX TO PARTS, FIGURE D7

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0308	NUT	11	0308	PIN
2	0308	BLOCK	12	0308	PIN
3	0308	LEVER	13	0308	SPRING
4	0308	WASHER	14	0308	WASHER
5	0308	SCREW	15	0908	SPRING
6	0308	WASHER	16	0308	NUT
7	0308	NUT	17	0308	LEVER
8	0308	SCREW	18	0308	PIN
9	0308	BRACKET	19	0308	BOLT
10	0308	WASHER	20	0308	PIN

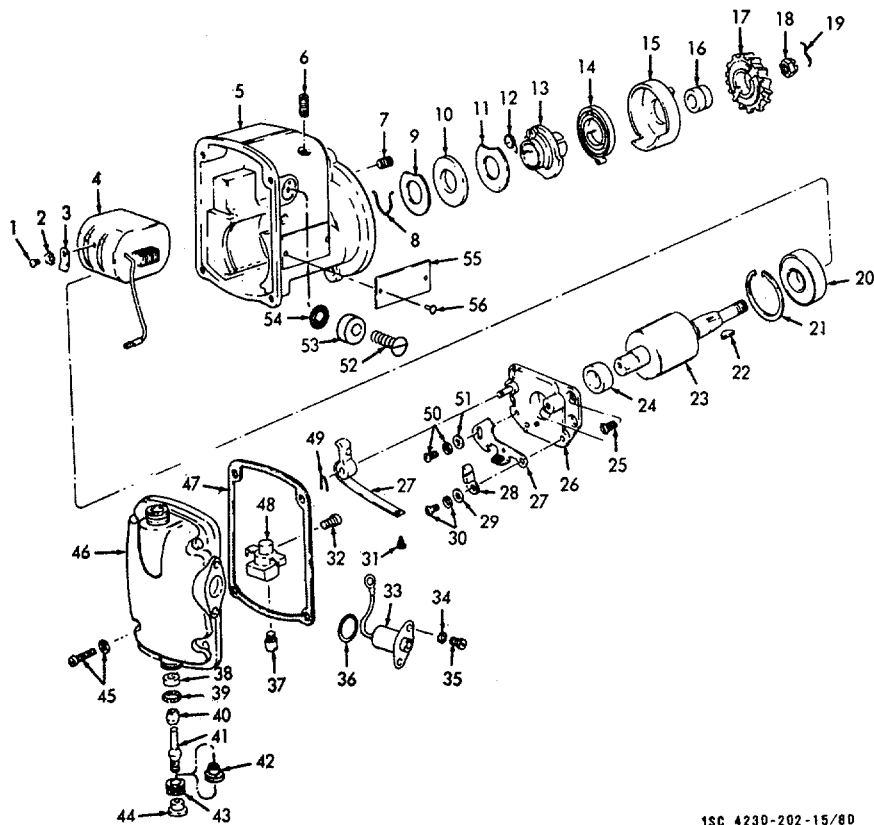


MEC 4230-202-15/Fig. D-8

Figure D8. Engine Pulley Shroud and Flywheel.

INDEX TO PARTS, FIGURE D8

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0103	FLYWHEEL	6	0107	PULLEY
2	0502	SHROUD AY	7	0107	STARTER ROPE
3	0502	SHROUD	8	0502	SCREEN
4	0502	RIVET	9	0502	WASHER
5	0107	WASHER	10	0502	SCREW

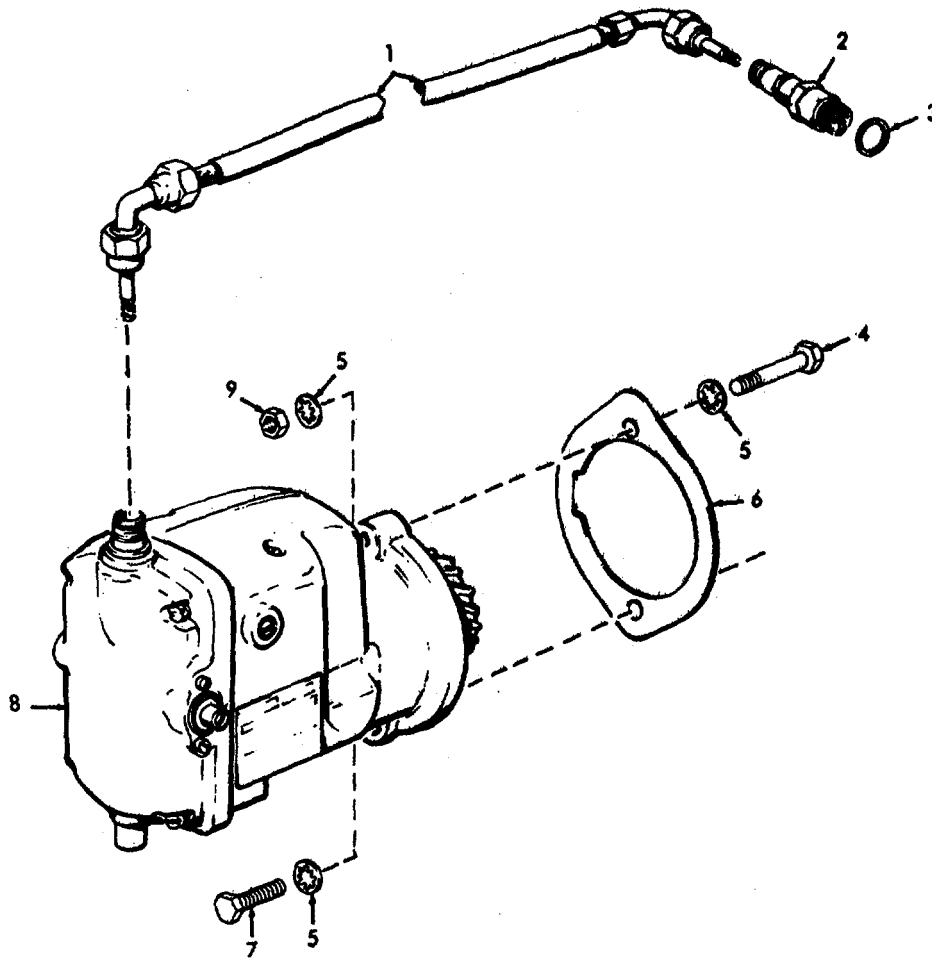


1SC 4230-202-15/80

Figure D9. Magneto.

INDEX TO PARTS, FIGURE D9

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	0605	SCREW	20	0605	BEARING	39	0605	SPRING
2	0605	WASHER	21	0605	RING	40	0605	FERRULE
3	0605	CLIP	22	06d5	KEY	41	0605	PLUNGER
4	0605	COIL	23	0605	ROTOR	42	0605	SPACER
5	0605	HOUSING	24	0605	BEARING	43	0605	NUT
6	0605	SETSCREW	25	0605	SCREW	44	0605	BUTTON
7	0605	PIN	26	0605	PLATE AY	45	0605	SCREW ASMB WSHR
8	0605	CLIP	27	0605	CONTACT SET	46	0605	CAP
9	0605	WASHER	28	0605	CAMWIK HOLDER	47	0605	GASKET
10	0605	SEAL	29	0605	WASHER	48	0605	INSULATOR
11	0605	WASHER	30	0605	SCREW ASMB WSHR	49	0605	PINLOCK
12	0605	SPRING	31	0605	SCREW	50	0605	SCREW ASMB WSHR
14	0605	SPRING	32	0605	SCREW	51	0605	WASHER
15	0605	SHELL	33	0605	CONDENSER	52	0605	SCREW
16	0605	BEARING	34	0605	WASHER	53	0605	COVER
17	0605	GEAR	35	0605	SCREW	54	0605	WIRE FABRIC
18	0605	NUT	36	0605	SEAL	55	0605	PLATE
19	0605	WIRE	37	0605	ROD	56	0605	RIVET
			38	0605	BUSHING			

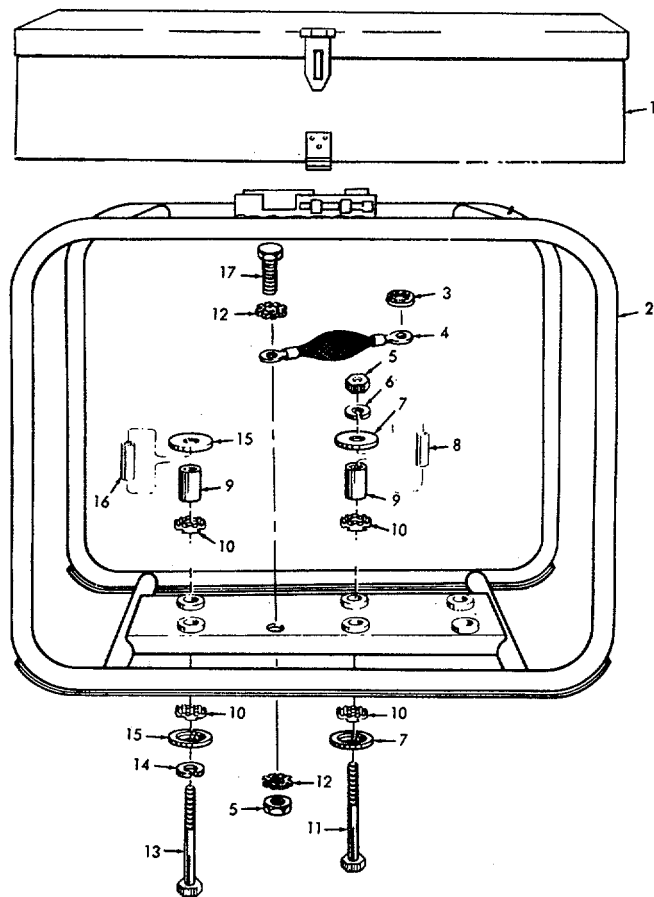


MSC 4230-202-15/81

Figure D10. Magneto, Spark Plug and Lead.

INDEX TO PARTS, FIGURE D10

RE NO.	FUNCT GROUP	ITEM NAME	REF No.	FUNCT GROUP	ITEM NAME
1	0605	CABLE	6	0605	GASKET
2	0605	SPARK PLUG	7	0605	SCREW
3	0605	GASKET	8	0605	MAGNETO
4	0605	BOLT	9	0605	NUT
5	0605	WASHER			

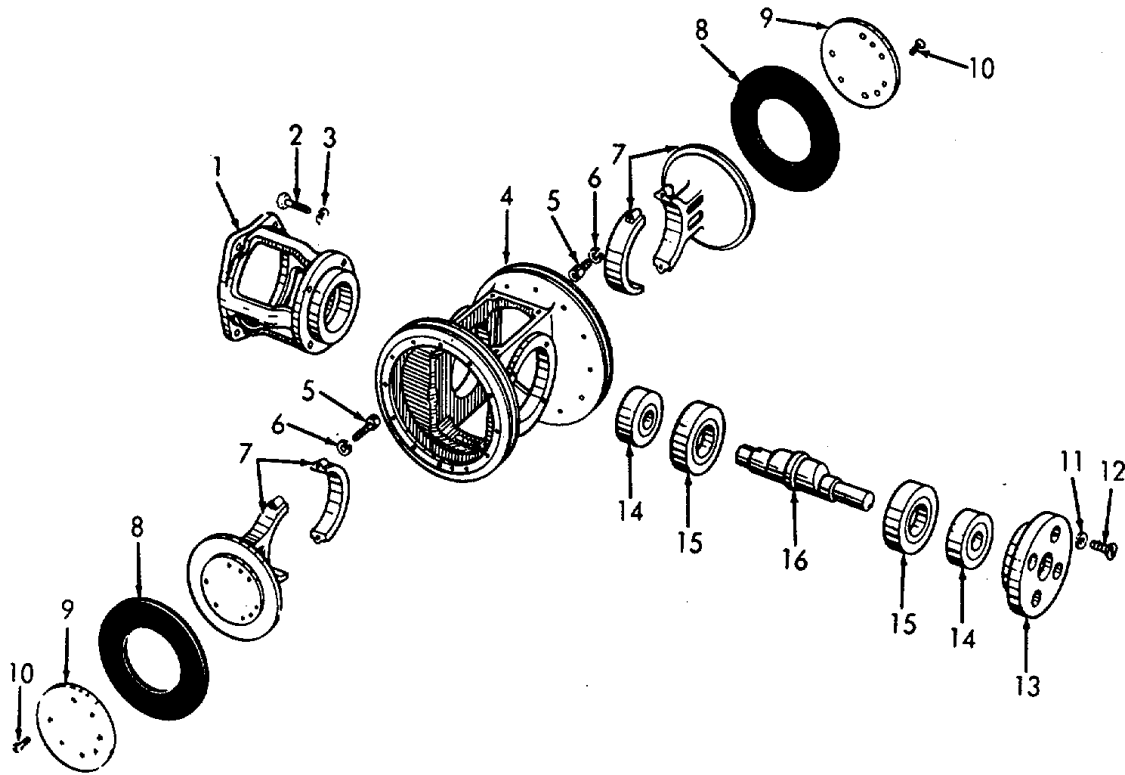


MSC 4230-202-15/82

Figure D11- Frame.

INDEX TO PARTS, FIGURE D11

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	1808	BOX	7	0100	WASHER	12	0615	WASHER
2	1501	FRAME AY	8	0100	BUSHING	13	5000	BOLT
3	0100	WASHER	9	0100	BUSHING	14	5000	WASHER
4	0615	STRAP	9	5000	BUSHING	15	5000	WASHER
5	0100	NUT	10	0100	PAD	16	5000	BUSHING
5	0615	NUT	10	5000	PAD	17	0615	SCREW
6	0100	WASHER	11	0100	SCREW			

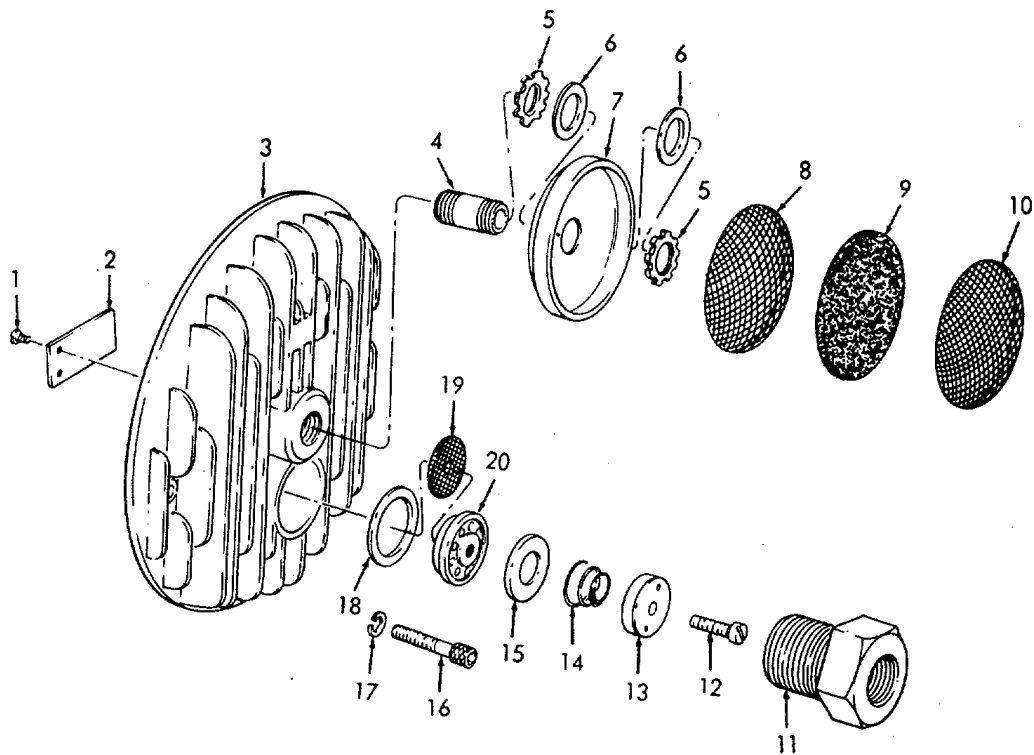


EMC 4310-237-15/60

Figure D12. Pistons and Crankshaft.

INDEX TO PARTS, FIGURE D12

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	5007	HOUSING	9	5004	PLATE
2	5007	SCREW	10	5004	SCREW
3	5007	WASHER	11	5002	WASHER
4	5001	HOUSING	12	5002	SCREW
5	5004	SCREW	13	5002	RETAINER
6	5004	WASHER	14	5002	BEARING
7	5004	PISTON	15	5004	BEARING
8	5004	DIAPHRAM	16	5002	CRANKSHAFT

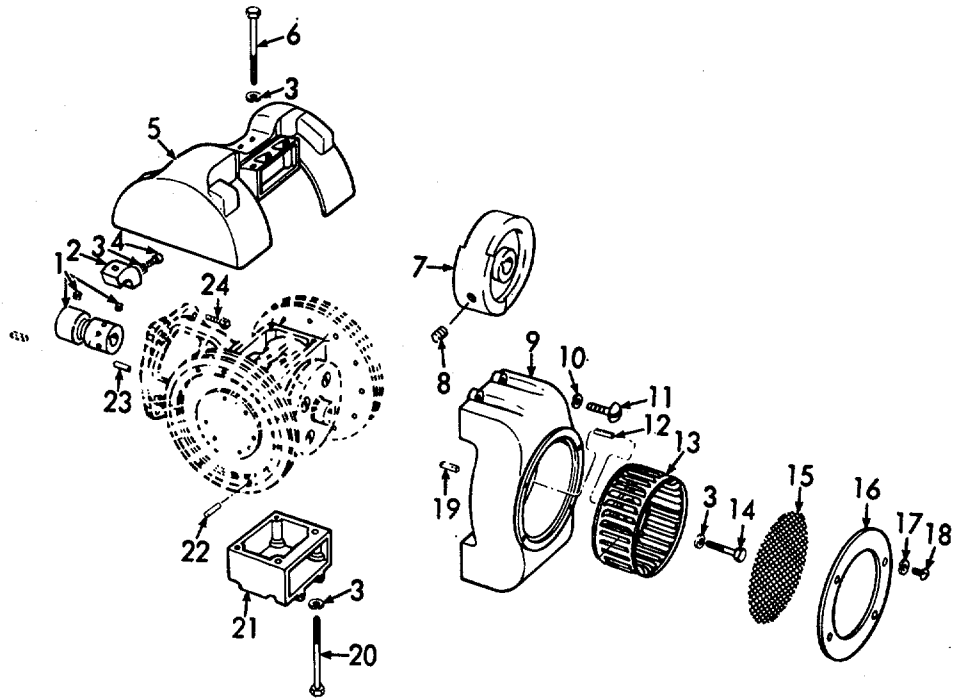


MSC 4230-202-15/84

Figure D13. Cylinder Head, Air Cleaner and Valves.

INDEX TO PARTS, FIGURE D13

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	5005	SCREW	11	5005	NUT
2	5005	VALVE	12	5005	SCREW
8	5001	HEAD	13	5005	STOP
4	5008	NIPPLE	14	5005	SPRING
5	5008	LOCKNUT	15	5005	PLATE
6	5008	WASHER	16	5001	SCREW
7	5008	SHELL	17	5001	WASHER
8	5008	SCREEN	18	5005	GASKET
9	5008	DISK	19	5005	SCREEN
10	5008	SCREEN	20	5005	BASE

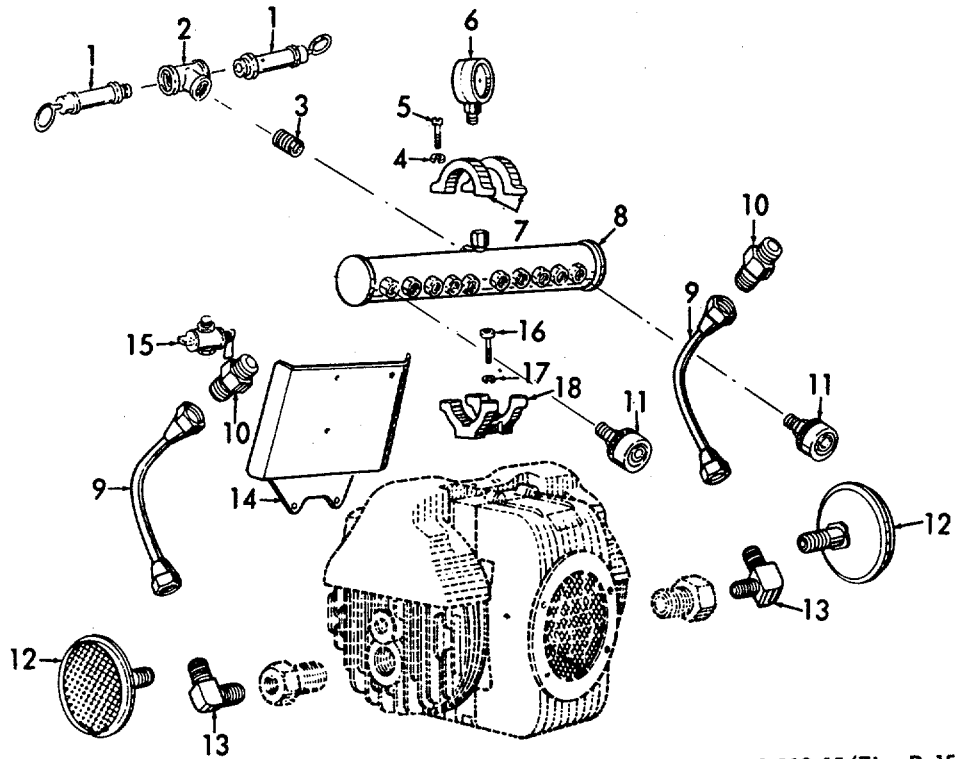


MEC 4230-202-15/Fig. D-14

Figure D14. Coupling and Blower.

INDEX TO PARTS, FIGURE D14

REF NO.	FUNCT GROUP	ITEM NAME	REF NO	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	5007	COUPLING	8	5003	SETSCREW	17	5010	WASHER
2	5007	COUNTR-BALANCE	9	5010	SCROLL	18	5010	SCREW
3	5001	WASHER	10	5010	WASHER	19	5002	KEY
3	5007	WASHER	11	5010	SCREW	20	5001	BOLT
3	5010	WASHER	12	5010	PIN	21	5001	BASE
4	5007	SCREW	13	5010	WHEEL	22	5001	PIN
5	5010	SHROUD	14	5010	BOLT	23	5002	KEY
6	5010	BOLT	15	5010	SCREEN	24	5007	SCREW
7	5003	FLYWHEEL	16	5010	COVER			

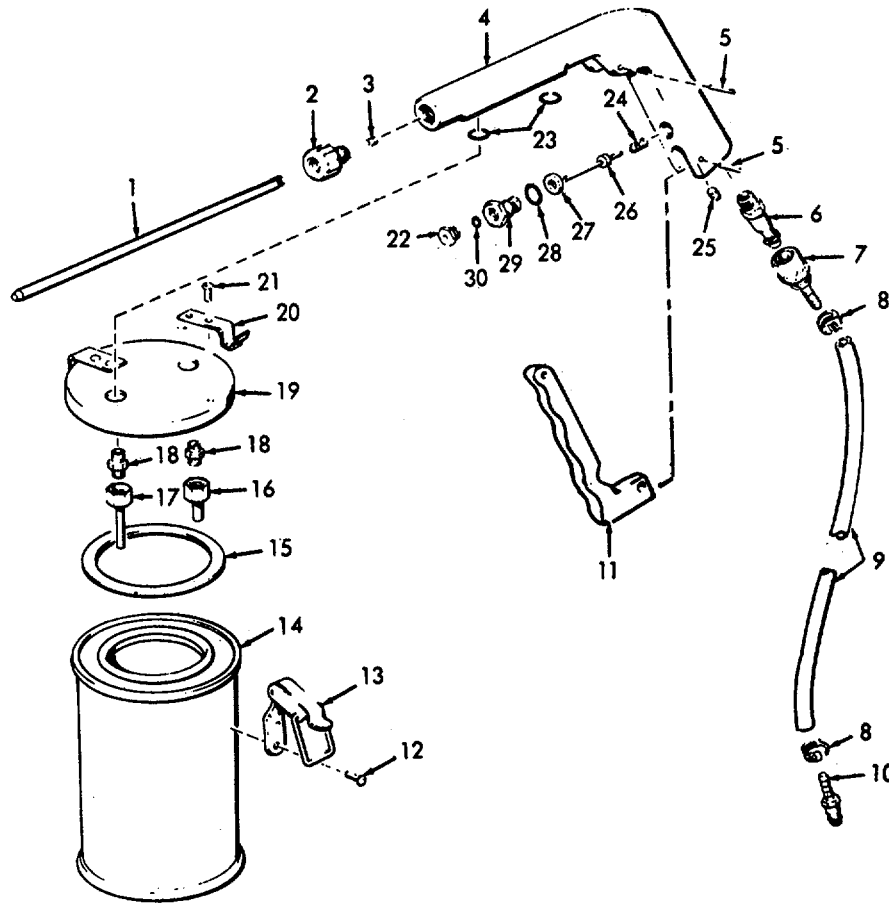


MEC 4230-202-15/Fig. D-15

Figure D15. Air Manifold and Deflector.

INDEX TO PARTS, FIGURE D15

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	5015	VALVE	10	5015	ADAPTER
2	5015	TEE	11	5015	COUPLER
3	5015	NIPPLE	12	5008	CLEANER
4	5015	WASHER	13	5015	ELBOW
5	5015	SCREW	14	0502	PLATE
6	4702	GAGE	15	5015	COCK
7	5015	CLAMP	16	5015	SCREW
8	5015	MANIFOLD	17	5015	WASHER
9	5015	TUBE	18	5015	BRACKET



MSC 4230-202-15/87

Figure D16. Dusting Gun.

INDEX TO PARTS, FIGURE D16

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	5803	TUBE AY	11	5803	TRIGGER	21	5803	RIVET
2	5803	NOSE	12	5803	RIVET	22	5803	CAP
3	5803	SETSCREW	18	5803	BOLT	28	5803	GASKET
4	5808	HANDLE	14	5808	CANISTER	24	5803	SPRING
5	5803	PIN	15	5803	GASKET	25	5803	SETSCREW
6	5803	PLUG	16	5803	TUBE AY	26	5803	STEM
7	5803	COUPLER	17	5803	TUBE AY	27	5803	WASHER
8	5803	CLAMP	18	5803	ADAPTER	29	5803	GASKET
9	5803	HOSE	19	5803	COVER	29	5803	BODY
10	5803	PLUG	20	5803	PLATE	30	5803	GASKET

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