### **TECHNICAL MANUAL**

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS ROLLER, TOWED, VIBRATING, AIRMOBILE, GASOLINE ENGINE DRIVEN ESSICK MODEL VR55TM FSN 3895-252-5276

This copy is a reprint which includes current pages from Change 3.

### HEADQUARTERS, DEPARTMENT OF THE ARMY

OCTOBER 1971

### TM 5-3895-341-14 \*C3

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, DC 12 November 1980

### Operator's, Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) FOR ROLLER, TOWED, VIBRATING, AIRMOBILE, GASOLINE ENGINE DRIVEN ESSICK MODEL VR55TM NSN 3895-00-252-5276

### Current as of April 1980

TM 53895-341-14, 14 October 1971, is changed as follows:

Inside front cover add the following under "DURING OPERATION."

### WARNING

The noise level of the roller, when in operation, could be detrimental to your hearing. Personnel operating or making adjustments on the engine should use ear protection.

*Line 34* First sentence is changed to "Operate the vibrating equipment only on earthen-and-fill-type material"

Page 1-1. Paragraph 1-3 is superseded as follows:

### 1-3. Reporting Errors and Recommending Improvements

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) direct to: Commander, US Army Tank-Automotive Materiel Readiness Command, ATTN: DRSTA-MBP, Warren; Michigan 48090. A reply will be furnished to you.

Page 2-1. Paragraph 2-4c is added as follows:

c. An operator's helper should be used during operation of the roller when available. The mission of the helper is to engage the power take-off operating lever (fig. 2-1) on the roller just before the prime mover begins to start in motion, and to disengage the power takeoff operating lever as soon as the prime mover comes to a stop.

Page 2-2. Following paragraph 2-7 title add the following.

### CAUTION Do not tow the roller in tandem during compacting operations.

Paragraph 2-7*b*(5) is superseded as follows: (5) When towing the roller, maintain a slow steady speed of approximately 1 to 2-miles per hour.

### CAUTION

Once compaction has been achieved, do not continue to vibrate the materials because the roller could be damaged by excessive vibration and shock to the precision parts. For the same reason, do not vibrate roller while standing still, except for test purposes. Position roller on a suitable insulator (old tire casing) while roller is standing still during test procedure.

### NOTE

While compacting, it is advisable to make one slow pass rather than two passes at twice the speed. The resultant compaction is achieved when the roller moves either forward or backward. The number of passes required for good compaction will vary with the thickness of the lift being rolled, and the compactibility of the material.

*Page 3-1*, section III is superseded in its entirety by the following:

### \*This change supersedes change 1, 11 February 1972 and change 2, 11 May 1973.

CHANGE

### 3-3. General

Preventive maintenance is detecting/correcting problems before they happen, or fixing little problems before they become big problems. Table 3-1 contains a list of preventive maintenance checks and services to be performed by operator/ crew. Attention to these checks and services will increase the useful life of the equipment, but every possible problem cannot be covered in the PMCS, You need to be alert for anything that might cause a problem.

### 3-3.1. Maintenance Forms and Records

Every mission begins and ends with the paperwork. There isn't much of it, but you have to keep it up. The forms and records you fill out have several uses. They are a permanent record of the services, repairs, and modifications made on your equipment. They are reports to organizational maintenance and to your commander. They are a checklist for you when you want to know what is wrong with the equipment after its last use, and whether those faults have been fixed. For the information you need on forms and records, see TM 38-750.

### 3-4. Preventive Maintenance Checks and Services

*a.* Do your (B) PREVENTIVE MAINTENANCE just before you operate the equipment. Pay attention to the CAUTIONS and WARNINGS.

*b.* Do your (D) PREVENTIVE MAINTENANCE during operation. (During operation means to monitor the roller and its related components while they are actually being operated).

*c.* Do your (A) PREVENTIVE MAINTENANCE right after operating the equipment. Pay attention to the CAUTIONS and WARNINGS.

*d.* Do your (W) PREVENTIVE MAINTENANCE weekly.

*e.* Do your (M) PREVENTIVE MAINTENANCE once a month.

*f.* If something doesn't work, troubleshoot it with the instructions in this manual or notify your supervisor.

*g.* Always do your preventive maintenance in the same order, so it gets to be a habit. Once you've had some practice, you'll spot anything wrong in a hurry.

*h.* If anything looks wrong and you can't fix it, write it on your DA Form 2404. If you find something seriously wrong, report it to organizational maintenance RIGHT NOW.

*i.* When you do your preventive maintenance, take along the tools you need to make all the checks. You always need a rag or two.

### WARNING

Dry cleaning solvent, SD-2, used to clean parts is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138° F.

(1) *Keep it clean*: Dirt, grease, oil, and debris only get in the way and may cover up a serious problem, Clean as you work and as needed. Use drycleaning solvent (SD-2) to clean metal surfaces. Use soap and water when you clean rubber or plastic material.

(2) *Bolts, nuts, and screws*: Check that they are not loose, missing, bent, or broken. You can't try them all with a tool, of course, but look for chipped paint, bare metal, or rust around bolt heads. If you find one loose, tighten it or report it to organizational maintenance.

(3) *Welds*: Look for loose or chipped paint, rust, or gaps where parts are welded together. If you find a bad weld, report it to organizational maintenance.

(4) *Electric wires and connectors*: Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors and make sure the wires are in good condition.

(5) *Hoses and fluid lines:* Look for wear, damage, and leaks. Make sure clamps and fittings are tight. Wet spots show leaks, of course, but a stain around a fitting or connector can also mean a leak. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, report it to organizational maintenance.

*j.* It is necessary for you to know how fluid leakage affects the status of your equipment. The following are definitions of the types/classes of leakage you need to know to be able to determine the status of your equipment. Learn and be familiar with them and REMEMBER When in doubt, notify your supervisor! Leakage Definitions for Operator/Crew PMCS

CLASS I Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops

- CLASS II Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked/inspected.
- CLASS III Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

### CAUTION

Equipment operation is allowable with minor leakage (Class I or II). Of course, consideration must be given to the fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor.

When operating with Class I or II leaks, continue to check fluid levels as required in your PMCS.

Class III leaks should be reported to your supervisor or to organizational maintenance.

Belt is missing, frayed, or cracked.

Engine oil pressure gage indicates

abnormal operation. Controls do not

operate properly.

			Doror	0		londing
		Interval			ITEM TO BE INSPECTED	
В	D	Α	W	Μ	Procedure: Check for and have repaired,	Equipment is not ready
					filled, or adjusted as needed	available if:
					NOTE	
					PERFORM WEEKLY AS WELL AS BEFORE PMC'S	
					IF:	
					<ul> <li>You are assigned operator but have not operated</li> </ul>	
					equipment since the last weekly.	
					<li>b. You are operating the equipment for the first time.</li>	
•					GENERAL	
					a. Visually check for loose wiring, damaged piping, or	
•	•				faulty hoses.	Class III leaks or any fuel leakages
					b. Look for evidence of fluid leakage (oil or fuel).	are found.
					WARNING	
			•		Check before removing from tow vehicles.	
•					c. Check front and rear stands for proper operation.	
					ENGINE CRANKCASE	
•					Check dipstick for proper oil level. Add oil as	
					necessary to FULL mark.	
•					VIBRATORY SHAFT BEARINGS	
					Lubricate daily (10 pumps of grease gun every 4	
			1			

CONTROLS AND INSTRUMENTS (Check for proper

d. CONTROLS(i.e. power takeoff lever, engine throttle)

Check air cleaner indicator; if red, clean and service

Check sediment bowl for dirty fuel or water, drain if dirt

Check level of electrolyte. If low, fill with clean water (distilled if possible) to split ring. In freezing weather,

hours).

DRIVE BELT

Check for fraying or cracking.

Check hourmeter operation

30-40 PSI normal operation

Check for proper operation

c. ENGINE OIL PRESSURE

indication and operation). a. AMMETER Slight (+) charge

b. HOURMETER

AIR CLEANER

element.

BATTERIES

FUEL STRAINER

or water is present.

Table 3-1.	<b>Operator/Crew</b>	Preventive	<b>Maintenance Ch</b>	ecks and Services
B-Before	D-During	A-After	W-Weeklv	M-Monthly

run engine at least 15 minutes after adding water. Page 4-1, Section II is superseded in its entirety by the following:

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### Section II. PREVENTIVE. MAINTENANCE CHECKS AND SERVICES

### 4-3. General

Item no.

1

2

3 4

5

6

7

8

Preventive maintenance is detecting/correcting problems before they happen, or fixing little problems before they become big problems. Table 4-1 contains a list of preventive maintenance checks and services to be performed by organizational maintenance personnel. Attention to these checks and services will increase the useful life of the vibrating roller, but every possible problem

cannot be covered in the PMCS. You need to be alert for anything that might cause a problem. If anything does look wrong, and you can't fix it, write it on a DA Form 2404 and report it to your supervisor. Be sure to record any corrective action.

# 4-3.1. Organizational Preventive Maintenance Checks and Services

*a.* Perform the checks and services at the intervals shown in table 4-1.

(1) Do the (Q) checks and services once each three months.

(2) Do the (S) checks and services twice a year, or each six months.

(3) Do the (A) checks and services once each year.

(4) Do the (B) checks and services once each two years.

(5) Do the (H) checks and services at the hour interval listed.

*b.* If the vibrating roller doesn't work properly and you can't see what is wrong, refer to table 4-2 for troubleshooting instructions.

### WARNING

Dry cleaning solvent SD-2, used to clean parts, is potentially dangerous to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 138° F.

c. Make cleanup a part of your preventive maintenance. Dirt, grease, oil, and debris may cover up a serious problem. Use drycleaning solvent (SD-2) to clean metal surfaces. Wipe off excess grease and spilled oil. Use soap and water when you clean rubber or plastic material.

*d.* Watch for and correct anything that might cause a problem with the equipment. Something you should watch for are:

(1) Bolts, nuts, and screws that are loose, missing, bent, or broken.

(2) Welds that are bad or broken.

(3) Electric wires and connectors that are bare, broken, or loose.

(4) Hoses and fluid lines that leak, or show signs of damage or wear.

e. You should know how fluid leaks affect the status of your equipment. Learn and be familiar with the following definitions of the types/classes of leakage. Remember when in doubt, notify your supervisor! Leakage definitions for PMCS are:

- CLASS I Seepage of fluid (indicated by wetness or discoloration) not great enough to form drops.
- CLASS II Leakage of fluid great enough to form drops but not enough to cause drops to drip from the item being checked/inspected.
- CLASS III Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

### CAUTION

Equipment operation is allowable with minor leakage (Class I or II). Of course, consideration must be given to the fluid capacity in the item/system being checked/inspected. When in doubt, notify your supervisor. When operating with Class I or II leaks, continue to check fluid levels as required by the PMCS, Class III leaks should be corrected

before releasing equipment for operation.

### Table 4-1. Organizational Preventive Maintenance Checks and Service

Legend A-Annually Q-Quarterly H-Hours S-Semiannually **MI-Miles B**-Biennially ITEM TO BE INSPECTED Item Interval Q S В н MI Procedure no. Α NOTE PERFORM OPERATOR/CREW PMCS PRIOR TO OR IN CONJUNCTION WITH **ORGANIZATIONAL PMCS IF:** a. There is a delay between the daily operation of the equipment and the organizational PMCS. 100 1 b. Regular operator is not assisting/participating. OIL FILTER 2 100 Change oil and filter element. FUEL STRAINER 3 Inspect strainer for dirt, water, or sediment. Clean if dirty. AIR CLEANER 500 Check filter element and if dirty, clean or replace element as required. 4 SPARK PLUGS Check for proper gap (0.030 inch ), dirt or defects. 500 5 Clean, adjust, or replace. GOVERNOR

### Table 4-1. Organizational Preventive Maintenance Checks and Services - Continued

Item			Inte	rval			ITEM TO BE INSPECTED		
	0	S			Ц	MI			
no.	Q	3	A	В	Н	IVII	Procedure		
							Check for proper operation. Adjust if required.		
6					500		MAGNETO		
							a. Inspect for worn or pitted contacts. Replace or adjust (0.015 inch gap).		
							b. Lube cam wick.		
7	•						CLUTCH ASSEMBLY		
							Check for proper operation. Adjust as needed.		
8	•						DRIVE BELT		
-							Check for wear, damage, and proper tension. Replace belt if worn out or damage is evident. Adjust tension if required. Proper tension will allow squeezing, with fingers, midway between the pulleys to approximately 2-1/2 to 3 inches.		
9	•						BATTERIES		
							a. Remove corrosion from connectors and posts.		
							b. Check specific gravity of electrolyte in each cell. Reference TM 9-6140-200-14.		
10	•						SCRAPER BLADE		
							Check for secure mounting and excessive wear. Replace if adjustment can no longer be made.		

### Page 4-10.

Paragraph 4-12a(2) after level add the following: Insure that the drive pulley on the roller is alined with the pulley on the engine.

### NOTE

The engine pulley should be directly above the drive pulley on the roller before installing or adjusting the drive belts.

Paragraph 4-12a(3), second sentence is superseded as follows:

When the belt sides are approximately 2-1/2 to 3-inches apart, the belt is adjusted properly.

Following paragraph 4-12a(3) add the following:

(4) To adjust the horizontal alinement of the engine, loosen the four upper nuts (1) that secure the engine mounting plate in position. Accurate alinement can be accomplished either with a level or by measuring the distance between the engine base (3) and the top of the roller frame.

### NOTE

If the vertical alinement of the drive pulleys is required, this can be accomplished by moving the drive pulleys in or out on the clutch output shaft as required. The pulley is a split collar, tapered-type, and can be moved easily.

Page 5-2.

Following paragraph 5-5a(5) add the following: WARNING

Disconnect battery at positive terminal prior to removal of nut (5) listed in step (6) below.

After paragraph 5-5a(8) add the following.

### NOTE

When replacing the engine, transfer the following items to the new engine: Oil high

### temperature transmitter and wiring, fuel inlet fitting, clutch assembly adapter flywheel and shield, front engine mount, gage control panel and wiring, and exhaust muffler extension.

Page A-1.

Paragraph A3 is superseded by the following:

- A-3. Painting.
- AR 746-1 Packaging of Army Materiel For Shipment and Storage

Paragraph A-5, line 4 is superseded by the following:

TM 96140-200-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual Storage Batteries Lead-Acid Type.

following:

TB 740-97-2 Preservation of USAMECOM Mechanical Equipment for Shipment and Storage.

Following paragraph A-6 add the following.

A-7. Demolition

- TM 750-244-3 Procedures for Destruction of Equipment to Prevent Enemy Use (Mobility Equipment Command). A-8. Operation
- M5-331A Utilization of Engineer Construction Equipment: Volume A; Earthmoving, Compaction, Grading, and Ditching Equipment.

*Page D-4,* figure D2, item 4, column (2). Change "5306-753-4322" to "5305-00-753-4322".

Page D-5, figure D3.

Item 1. Column (2). Change "3030-7589704" to "3030-00-625-2989". Change "BELT, DRIVE 4-3V850 Column (3). (11288)" to "BELT, DRIVE: BANDED, W/FOUR 3V RIBS, 4R3V850 (20796)". Item 7, column (2). Change "5305-4754)631" to "5305-00-782-9494". Page D-6, figure D4, item 9, column (2). Add "5330-00-139-7103". Page D-7, figure D5. Item 3, column (2). Change "5306-7534322" to "5305-00-7534322". Item 4, column (2). Add "6140400-137-5843". Item 5, column (2). Change "6150-257-1472" to "6140-00-257-1472". Item 8, column (2). Add "6140-005-4523". Page D-8, figure D7. Item 6, column (2). Change "5305-450-0385" to "5306-00-450-0385". Item 17, column (2). Change "5305-716-6318" to "5305-00-939-9205". Page D-11, Figure D1, item 20, column (2). Change "5306-753-4322" to "5305-00-7534322". Figure D2, item 4, column (2). Change "5306-753-4322" to "5305-00-7534322". Page D-12, figure D3. Item 1. Column (2). Change "3030-758-9704" to "3030-00-625-2989". Change "BELT, DRIVE 4-3V850 Column (3). (11288)" to "BELT, DRIVE: BANDED W/FOUR 3V RIBS, 4R3V850 (20796)". Following item 4. Column (1). Add "PAFZZ'. Column (2). Add "53000-071-2240". Column (3). Add "SCREW, CAP, 14-20 X 1-3/8 in. Ig MS90725-11 (96906)". Column (4). Add "EA". Column (5). Add "3". Columns (6) through (9). Add "i". Column (10)(a). Add "D3". Column (10)(b). Add "4.1". Column (1). Add "PAFZZ". Column (2). Add "5310-0068965". Column (3). Add "WASHER, 1/4 in, MS3533844 (96906)". Column (4). Add "EA". Column (5). Add "3". Columns (6) through (9). Add "... Column (10)(a). Add "D3". Column (10)(b). Add "4.2". Item 6, column (2). Change "5315-4324337" to 5315-00-849-7237".

Item 7, column '(2). Change "5305-475-0631" to "5305-00-782-9494". Item 14. Column (1). Change "PF" to "XBFZZ". Column (2). Delete "5310423-8022". Page D-13. Item 21, column (2). Change "3895-200-6367" to "5360-00-200-6367". Item 26,- column (2). Change "3010-362-2954" to "5360-00-362-2954". Item 27. Column (1). Change "PF" to "XBFZZ". Column (2). Delete "5315-281-7549". Item 32, column (2). Change "3820-802-2038" to "4720-00-802-2038". Item 34, column (2). Change "3010-366-7185" to "2010-00-366-7185". Page D-14, item 43, column (2). Change "5340-282-4986" to "5365-00-2824986". Page D-15, figure D4, item 9, column (2). Add "5330-00-139-7103". Page D-16, figure D5. Item 3, column (2). Change "5306-753-4322" to "5305-00-753-4322". Item 4, column (2). Add "61404)0-137-5843". Item 5, column (2). Change "6150-257-1472" to "6140-00-257-1472". Item 8, column (2). Add "6140405-4523". Page D-17. Following figure D-6, item 7. Column (1). Add "PAFZZ". Column (2). Add "53064(0-225-804". Column (3). Add "SCREW, CAP, 5/16-18 X 2 in. Ig MS90275-40 (96906)". Column (4). Add "EA". Column (5). Add "3". Columns (6) through (9). Add "". Column (10)(a). Add "D6". Column (10)(b). Add "7.1". Column (1). Add "PAS ;Zip". Column (2). Add "5310-00407-9566". Column (3). Add "WASHER, 5/16 IN. MS35338-45 (96906)". Column (4). Add "EA". Column (5). Add "3". Columns (6) through (9). Add "\*". Column (10)(a). Add "D6". Column (10)(b). Add "7.2". Item 16, column (2). Change "2530-425-5828" to "3040-00-425-5828". Item 17, column (2). Change "2530432-1661" to "3040-00432-1661". Item 18, column (2). Change "3040-425-5897 to "2805-00-425-5897".

*Page D-18*, figure D7, item 6, column (2). Change "5305-460-0385" to "5306-00-450-0385".

"5305-716-6318" to "5305-0-939-9205".

Page D-22, figure D3 is superseded as follows:

Page D-19, figure D7, item 17, column (2). Change

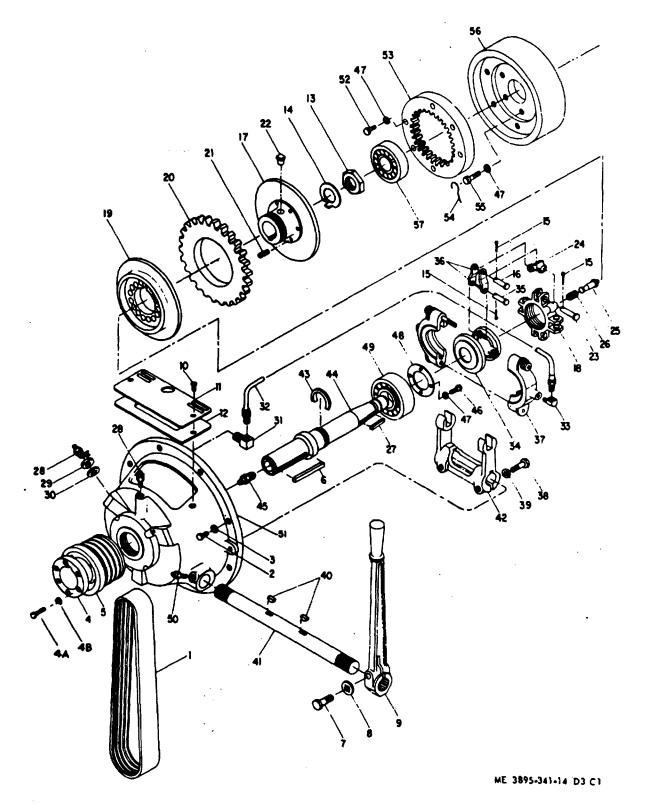
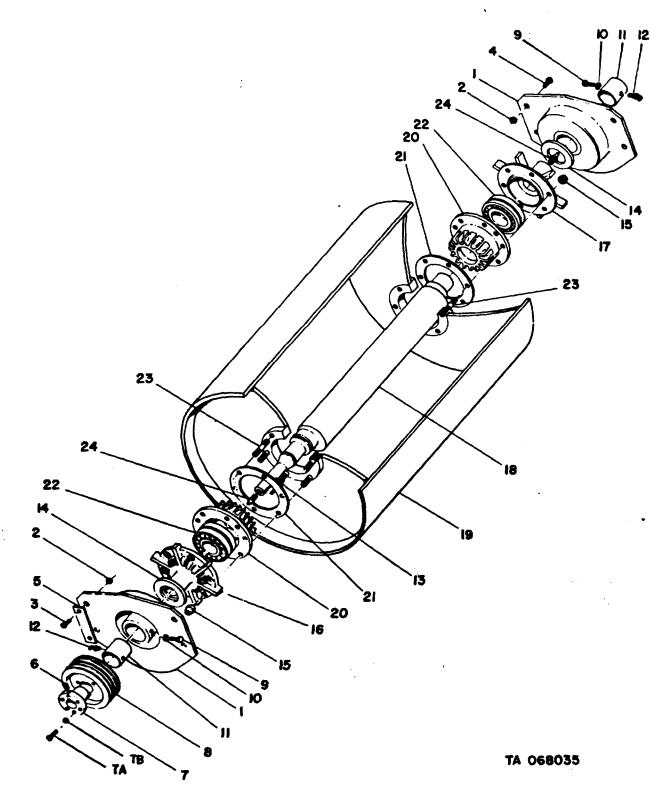
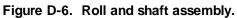


Figure D3. Power take-off assembly.





All changes, additions, or deletions of stock numbers, manufacturer's codes, and part numbers with this change

should be appropriately reflected in the index.

### By Order of the Secretary of the Army:

Official:

E. C. MEYER General, United States Army Chief of Staff

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

**Distribution:** 

To be distributed in accordance with DA Form 12-25B, Organizational Maintenance requirements for Paver, Bituminous.

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TECHNICAL MANUAL

NO. 5-3895-341-14

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D. C., 14 October 1971

### **OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT**

### AND GENERAL SUPPORT MAINTENANCE MANUAL

### INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST ROLLER, TOWED, VIBRATING,

### AIRMOBILE, GASOLINE ENGINE DRIVEN

### **ESSICK MODEL VR55TM**

### FSN 3895-252-5276

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### INTRODUCTION

### Section I. GENERAL

### 1-1. Scope

a. This manual is published for the use of the personnel to whom the Essick Company Model VR55TM Roller is issued. It contains information on the operation and organizational, direct and general support maintenance of the equipment.

b. Numbers in parentheses on illustrations indicate quantity. Numbers preceding callouts on illustrations indicate the preferred maintenance sequence.

c. Refer to TM 740-90-1 (Administrative Storage of Equipment) for information and instructions pertaining to organizational administrative storage.

d. Refer to TM 750-244-3 (Procedures for Destruction of Equipment to Prevent Enemy Use) for information and

### Section II. DESCRIPTION AND DATA

### 1-4. Description

The Essick Model VR55TM Roller is a single, smooth drum, vibratory towed vehicle, designed to compact soil to high density. It is powered by a 10 H. P. Military Standard Gasoline Engine Model 2A042-3. Vibrations are delivered to the ground by a rotating eccentric shaft within the drum. The vibrations are isolated from the main frame by use of two large rubber mounts. The roller has a front draw bar with adjustable front towing hitch.

### 1-5. Differences in Models

This manual covers the Essick Model VR55TM only.

### 1-6. Identification and Tabulated Data

*a.* Identification. The roller has four identification and instruction plates.

instructions on destruction of equipment to prevent enemy use.

### 1-2. Forms and Records

Maintenance forms, records and reports, which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

### 1-3. Reporting of Errors

Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to the Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

(1) Identification Plate - specifies the nomenclature, manufacturer's name and serial number, contract number and FSN number. It is located on right side of lower front frame member (fig. 1-1).

(2) Transportation Plate-specifies the nomenclature, tie-downs, lifting eyes, overall length, height and width, shipping weight and cubage. It is located on right side of lower front frame member (fig. 1-1).

(3) Instruction Plate - specifies the procedure for starting and operation of controls, It is located on top of belt guard (fig. 1-1).

(4) Engine Plate - located on the engine's air shroud (fig. 1-1). This is a Military Standard Engine (TM 5-2805-258-14 for further information).

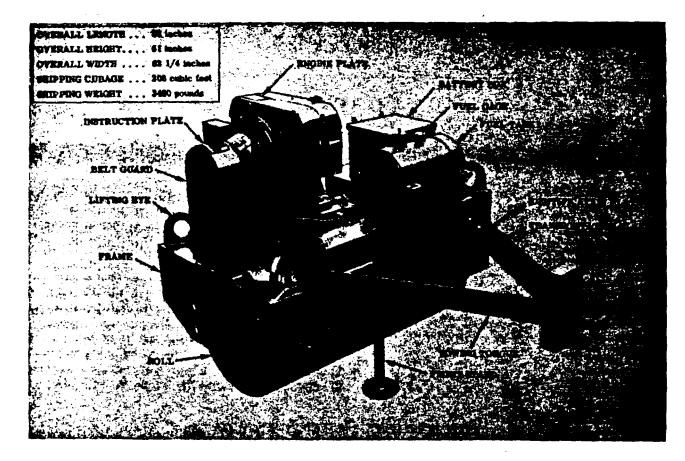


Figure 1-1. Roller, three-quarter right front view.



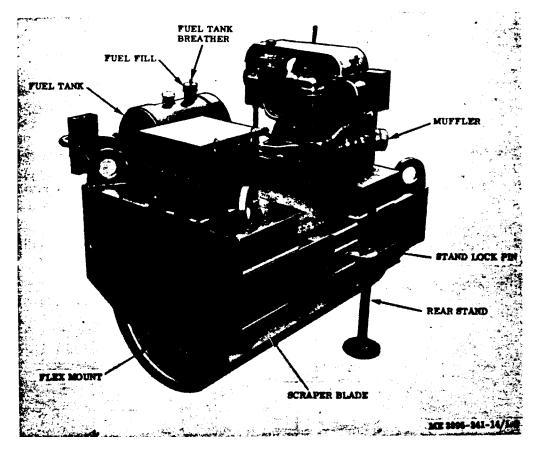


Figure 1-2. Roller, three quarter left rear view.

### b. Tabulated Data.

Ammeter

(1) Roller.	
Manufacturer	Essick Manufacturing Co.
Model	VR55TM
Туре	
Normal Towing Speed	1 ½ M. P. H.
Maximum Towing Speed	3 M. P. H.
Roll Diameter	30 inches
Roll Width	55 inches
Weight	3,460 lbs.
Vibrating Force	10,300 lbs.
Vibrations per Minute	1,300 to 1,600
Engine RPM-Full Throttle	3550
(2) Engine. This is the	Military Standard Engine
Model 2A042-3, FSN 2805-87	2-5971. For all data and
maintenance requirements, c	onsult TM 5-2805-258-14
and TM 5-2805-258-24P.	
(3) Accessory items.	
Fuel Gage	
Manufacturer	
Model	6680-L12-H70
Hourmeter	
Manufacturer	
Model	771

Manufacturer .....Stewart Warner

Oil Pressure Gauge Manufacturer Model Power Take-Off		r
Manufacturer	Twin Disc, Inc.	
Model		2
Air Inlet Housing		
Manufacturer	Alton Iron Wor	ks
Model	FSN 2805-895	-3050
Muffler		
Manufacturer	Wisconsin Mot	or Corporation
Model	WD-66	
Toggle Switches		
Manufacturer	Kulka Electric	Corporation
Model		
Model	MS-35058.30	
Model	MS-35059-23	
Pulleys		
Manufacturer		
Model		
Model	4-3V80-D	
Drive Belt	_	
Manufacturer		
Model (4) <i>Capacities</i>	4R / 3V-850	
Fuel Tank	10 gallons	

(5) Nut and bolt torque data.							
	SAE Gr. 2	SAE Gr. 5					
	(no marks on head)	(3 marks on					
head)							
3/8 inch dia	14-24 ft-lb.	26-36 ft-lb.					
7/16 inch dia	25-35 ft-lb.	45-55 ft-lb.					
1/2 inch dia	40-50 ft-lb.	70-80 ft-lb.					
9/16 inch dia	61-71 ft-lb.	105-115 ft-lb.					

	SAE Gr. 2	SAE Gr. 5
	(no marks on head)	(3 marks on
head)		
5/8 inch dia	8898 ft-lb.	145-155 ft-lb.
3/4 inch dia	145-155 ft-lb.	245-255 ft-lb.
7/8 inch dia	197-207 ft-lb.	373-383 ft-lb.
1 inch dia	295-305 ft-lb.	578-588 ft-lb.
1 1/8 inch dia	469-479 ft-lb.	777-787 ft-lb.
(6) Wiring di	iagram. Refer to figu	ire 1-3.

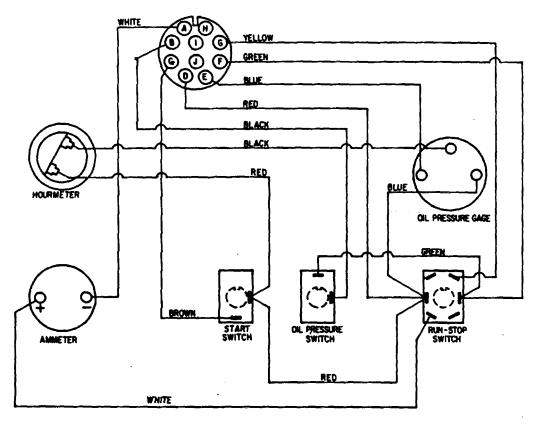


Figure 1-3. Wiring diagram.

<sup>1-4</sup> 

### **OPERATING INSTRUCTIONS**

### Section I. SERVICE UPON RECEIPT OF MATERIAL

### 2-1. Inspection and Servicing Equipment

Visually inspect entire roller for loss of parts or damage. Check engine assembly for secure mounting. Check

### Section II. CONTROLS AND INSTRUMENTS

### 2-2. General

This section describes the various controls and instruments and provides the operator/crew sufficient information to insure proper operation of the roller.

### 2-3. Controls and Instruments

a. "Run-Stop" Switch. This switch is shown in figure 2-1. It is a toggle switch and allows the engine to run when in the "up" position and stops the engine by grounding in the "down" position.

*b. Oil Pressure Switch.* This switch (fig. 2-1) is a toggle switch that is normally ON in the "down" position and momentarily OFF in the "up" position. When starting the engine it is held in the "up" position until oil pressure shows on the oil pressure gauge.

*c. Start Switch.* This switch is shown in Figure 2-1. It is a toggle switch that is normally OFF in the "down" position and momentarily ON in the "up" position. This is the engine starting switch and is held in the "up" position to start the engine.

drive belt for proper tension (para 4-12). Check engine for lube oil and fuel tank for fuel supply. Check that battery cells are full.

*d. Oil Pressure Gauge*. This gauge is shown in Figure 2-1. It indicates the engine oil pressure, and has a range. of 0 to 60 PSI. Normal operating pressure is approximately 35 PSI.

*e. Ammeter Gauge.* This gauge is shown in Figure 2-1. It indicates if the engine is charging or discharging and has a range of minus 15 to plus 15 amperes.

*f. Hourmeter.* This meter is shown in Figure 2-1. It indicates the total engine running time in hours and tenths of an hour.

g. Oil Temperature Switch. This switch is located in the engine oil pan, at the accessory end of the engine. It is wired to the magneto and will stop the engine if the oil reaches excessively high temperatures.

*h. Power Takeoff Operating Lever.* This lever shown in Figure 2-1. It engages and disengages the clutch located within the power takeoff.

*i. Fuel Level Gauge.* This gauge is shown in Figure 1-1. It indicates the amount of fuel in the fuel tank.

### Section III. OPERATION UNDER USUAL CONDITIONS

### 2-4. General

a. The instructions in this section are published for the information and guidance of personnel responsible for the operation of the roller.

b. The operator must know how to perform every operation of which the roller is capable. This section contains instructions on starting and stopping the roller, on operation of the roller, and on coordinating the basic motions to perform the specific tasks for which the equipment is designed. Since nearly every job presents a different problem, the operator may have to vary given procedures to fit the individual job.

### 2-5. Starting

a. Preparation for Starting.

(1) Perform the preventive maintenance services. (para 3-4)

(2) Lubricate the roller as specified in the LO 5-3895-341-12.

(3) Insure the fuel shutoff valve (fig. 4-3) is in "open" position.

(4) Place power takeoff operating lever (fig. 2-1) in disengaged position.

(5) Place engine throttle in idle position (TM 5-2805-258-14).

b. Starting

(1) Place "Run-Stop" Switch in "Run" position (fig. 2-1).

(2) Place, and hold, oil pressure and start switches in "up" position.

(3) Release start switch as engine starts.

(4) Release oil pressure switch when pressure on oil pressure gauge reaches 30.

(5) Place engine on full throttle after engine is warmed up. (TM 5-2805-258-14).

### 2-6. Stopping

a. Preparation for Stopping.

(1) Disengage power takeoff operating lever (fig. 2-1).

(2) Place throttle in idle position (TM 5-2805-258-14).

(3) Allow engine to idle (TM 5-2805-258-14).

b. Stopping.

(1) Place "Run-Stop" Switch in "Stop" position (down).

(2) Close the fuel shutoff valve.

(3) Perform the daily preventive maintenance services.

### 2-7. Roller Operation

General. The roller is a towed-type vibrating a. machine with a smooth drum. It is designed to compact fill materials by imparting vibrations which energize the soil in an area in front, under, and to the rear of the drum. The action is accomplished by an eccentric shaft within the drum, powered by a gasoline engine through a power belt.

### CAUTION

### Do not vibrate while passing over or standing on solid surfaces, such as concrete

### Section IV. OPERATION UNDER UNUSUAL CONDITIONS

### 2-9. Operation in Cold Weather (below 32°F.)

a. Engine Care (TM 5-2805-258-14).

b. Lubricate as specified in the current lubrication order.

c. Keep fuel tank filled at all times to reduce the risk of water forming in the tank. As any water in the fuel tank will be carried to the fuel strainer, it is important to drain the fuel strainer.

### 2-10. Operation in Extreme Heat

a. Engine Care (TM 5-2805-258-14).

b. Lubricate as specified in current lubrication order.

### 2-11. Operation in Dusty or Sandy Areas

Lubrication. Clean all lubrication points before a. applying lubricants. Clean area around the on filler cap and oil level gauge before inspecting or adding engine oil.

pavement. This will transmit great shock throughout the machine and will lead to possible damage of precision parts. Damage may also result to the surface passed over.

### NOTE

When the vibrator is engaged for the first time each day, it is advised that the clutch operating lever be engaged and disengaged three or four times in succession before leaving it engaged. This is most important in cold weather, where the grease in the vibrator shaft bearings may have become congealed.

b. Operation.

pin.

(1) Connect roller towing eye to towing vehicle.

(2) Place front and rear stands in "up" position and

(3) Start engine (para 2-5).

(4) Engage power takeoff operating lever (para 2-5).

(5) Maintain a steady speed of approximately 1 h miles per hour for best compaction.

### 2-8. Roller Shutdown

a. Shutdown.

(1) Bring towing vehicle to a stop.

(2) Disengage clutch operating lever. This will stop vibrator.

(3) Set engine throttle to idle.

(4) Stop engine (para 2-6).

(5) Remove pins from stands, lower stands and pin.

(6) Detach roller from towing vehicle.

After-Operation Services. b. Perform the daily preventive maintenance services.

b. Fuel System. Take all necessary precautions

to keep dust or sand from entering the fuel tank while filling. Inspect the fuel strainer sediment bowl frequently and service as necessary.

### 2-12. Operation under Rainy or Humid Conditions

General Coat exposed areas with a suitable a. lubricating oil or grease and keep the electrical system dry.

b. Lubrication. Lubricate in accordance with current LO 5-3895-341-12.

С. Fuel System. Keep fuel tank full to avoid condensation. Inspect the fuel strainer for water and sediment twice daily. Service the strainer as required.

### 2-13. Operation in Salt Water Areas

a. General. Paint all exposed non-polished

areas. Coat all other exposed areas with a suitable lubricating oil or grease.

*b. Fuel System.* Keep fuel tank full to minimize condensation. Service the fuel strainer daily.

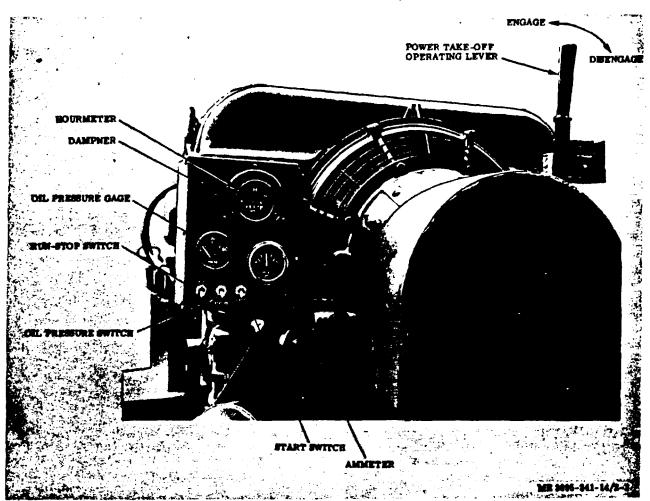
*c. Electrical System*. Keep system components clean and dry. Wipe off moisture and-salt deposits. Inspect magneto cap frequently and clean and dry as required.

### 2-14. Operation at High Altitudes

*a. General.* The roller is designed to operate without special attention up to 5,000 ft. above sea level.

*b. Fuel Tank.* Make certain the fuel tank cap is properly vented to allow for expansion of air within the tank. Do not fill the fuel tank completely full. Stop at least a half inch from the top.

*c. Air Cleaner.* Clean and service daily so that maximum air intake-can be accomplished for most efficient operation.





### CHAPTER 3

### **OPERATOR/ CREW MAINTENANCE INSTRUCTIONS**

### Section I. BASIC ISSUE ITEMS

Tools, equipment, and repair parts issued with or authorized for the roller are listed in the Basic Issue Items List, Appendix B.

### Section II. LUBRICATION INSTRUCTIONS

### 3-1. General Lubrication Information

This section contains lubrication instructions which are supplemental to, and not specifically covered in the current lubrication order (LO 5-3895-341-12).

### 3-2. Detailed Lubrication Information

a. General. Keep all lubricants in closed containers and store in a clean, dry place away from external heat. Allow no dust, dirt, or other foreign matter to mix with the lubricants. Keep all lubrication equipment clean and ready for use. *b.* Cleaning. Keep all external parts not requiring lubrication clean of lubricants. Before lubricating the equipment, wipe all lubrication points free of dirt and grease. Clean all lubrication points after lubricating to prevent accumulation of foreign matter.

*c. Points of Lubrication.* Service the lubrication points at proper intervals. Reference current lubrication order (LO 5-3895-341-12).

*d.* Refer to LO 5-2805-258-12 for engine lubrication instructions.

### Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

### 3-3. General

To insure that the roller 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 checks and services to be performed are listed in table 3-1. 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. Defects or unsatisfactory operating characteristics beyond the scope of the operator to correct must be reported on DA Form 2404 (Equipment Inspection and Maintenance Work Sheet) at the earliest possible opportunity.

### 3-4. Preventive Checks and Services

*a.* For the roller, perform these checks and services as directed in table 3-1.

*b.* For the engine, perform these checks and services as directed in TM 5-2805-258-14.

	Interval						B - Before Operation A - After Operation M - Monthly			
_	Operator			0	rg.	D - During Ope	eration W - Weekly W	- Quarterly		
Item		Daily		W	М	Q	Item to be Inspected	Procedure	Reference	
Number	В	D	Α							
1.	Х	Х	Х				Engine	Check oil level and engine accessories 5-2805-258-14	Paragraph 3-5	
2.				х			Battery cables	Check for loose or broken cables and dirty connections	Paragraph 3-6	
3.				х			Battery box	Check for loose or broken flex mountings	Paragraph 3-6	
4.	х						Fuel strainer	Check sediment bowl for dirty fuel or water	Paragraph 3-7	
5.				х			Muffler	Check for clogged holes	Paragraph 3-8	

### Table 3-1. Preventive Maintenance Checks and Services

### Section IV. MAINTENANCE OF ROLLER

### 3-5. Engine Care

Refer to TM 5-2805-258-14.

### 3-6. Batteries

- a. Inspect battery cables for loose connections.
- b. Inspect for insecure mounting of batteries.

### 3-7. Fuel Strainer

a. Inspect for leak.

- b. Inspect for cracked sediment bowl.
- c. Inspect for excessive dirt or water in sediment

## bowl.

- 3-8. Muffler
  - a. Inspect for clogged holes.
  - b. Inspect for holes caused by hot exhaust.

### **CHAPTER 4**

### **ORGANIZATIONAL MAINTENANCE INSTRUCTIONS**

### Section I. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

### 4-1. Special Tools and Equipment

No special tools or equipment required. 4-2. Maintenance Repair Parts Repair parts for organizational maintenance are listed in appendix D of this manual. Reference TM 5-2805-258-24P for engine repair parts listing.

### Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

### 4-3. Preventive Checks and Services

*a.* For the roller, perform the checks and services as directed in table 4-1.

*b.* For the engine, perform these checks and services as directed in TM 5-2805-258-14.

### Table 4-1. Preventive Maintenance Checks and Services

	Interval						B - Before Oper	ation A - After Operation M	- Monthly
	Operator		Org.		D - During Oper	ation W - Weekly W	W - Quarterly		
Item		Daily		W	Μ	Q	Item to be Inspected	Procedure	Reference
Number	В	D	Α						
1.					Х	Х	Engine	TM 5-2805-258-14.	
2.					Х		Batteries	Perform specific gravity test.	Paragraph 5-6(c.)
3.					Х		Gages and Switches.	Check for proper functioning.	
4.					Х		Clutch Assembly.	Check for proper operation an adjustment.	d Paragraph 4-10
5.					Х		Drive belt.	Check for worn or damaged belt.	Paragraph 4-12
6.					Х		Belt pulleys.	Check for worn grooves.	
7.					Х		Scraper blade.	Check for excessive wear.	Paragraph 4-14

### Section III. TROUBLESHOOTING

### 4-4. General

This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the roller and its components. Malfunctions which may occur are listed in Table 4-2. Each malfunction stated is followed by a list of probable causes. The corrective action recommended is described opposite the probable cause. **4-5. Engine Malfunction** 

If engine malfunctions refer to TM 5-2805-258-14.

### Section IV. RADIO INTERFERENCE SUPPRESSION

Refer to TM 5-2805-258-12 for instructions on radio in

interference suppression on the gasoline engine.

Malfunction	Probable Cause	Corrective Action
1. Engine fails to start.	a. Lack of fuel.	a. Fill fuel tank.
	b. Low battery charge.	<ul> <li>Recharge or replace battery.</li> </ul>
	c. Broken battery cable.	c. Replace cable.
	d. Dirty or loose battery cable	d. Clean and tighten battery cable
	connections.	connections.
	e. Dirty fuel strainer	e. Clean or replace strainer.
<ol><li>Clutch runs hot.</li></ol>	Shaft bearings are dry.	Lube per latest lubrication order.
<ol><li>Vibrator shaft not turning at</li></ol>	a. Belt loose.	a. Tighten bell
proper RPM.	b. Engine not running at proper	b. Ref. TM 5-2805-258-14.
	speed.	
<ol><li>Vibrator shaft does not turn.</li></ol>	a. Shaft bearings seized to shaft.	a. Report to general support
	b. Clutch slipping.	<ul> <li>Report to general support</li> </ul>

### Table 4-2. Troubleshooting

### Section V. ELECTRICAL SYSTEM

### 4-6. Batteries (fig. 4-11

a. Removal

(1) Loosen terminal connector bolts (1) and remove jumper cable (2).

(2) Loosen terminal connector bolt (3), remove nut (41, washer (5), bolt (6), and remove ground cable (7).

(3) Loosen terminal connector bolt (8), nut (9), washer (10), bolt (11), clamp (12), nut (13), and remove battery cable (14) by feeding it through hole il5) after dislodging grommet (16).

(4) Remove nut (17), washer (18), holddown bolt (19), and holddown (20). Lift out batteries (21).

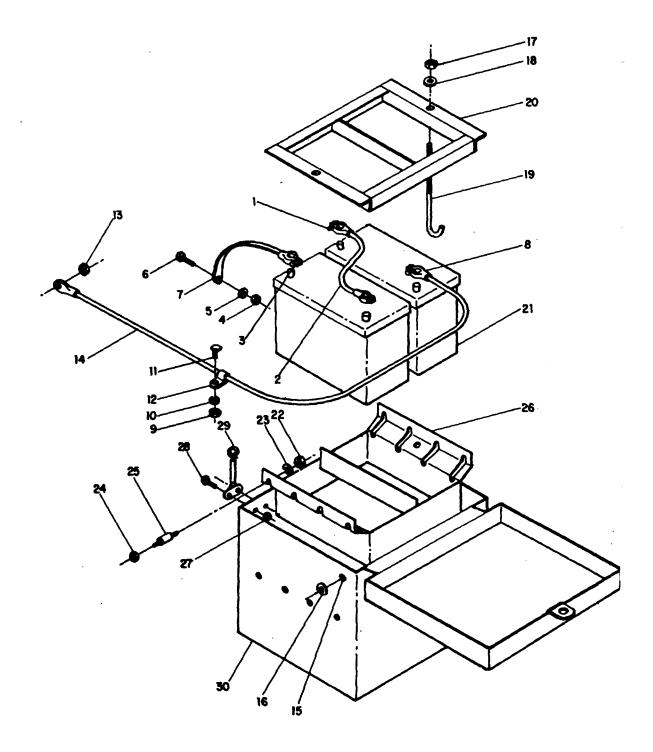
(5) Remove nuts (22), washers (23), nuts (24), flex bolt (25), and lift-out battery tray (26).

(6) Remove nuts (27), screws (28) and remove hasps (29) from battery box (30).

b. Installation. Installation is in the reverse of removal.

### **KEY TO FIGURE 4-1:**

- 1 Bolt 2 Cable, Jumper 3 Bolt 4 Nut 5 Washer 6 Bolt 7 Cable, Ground 8 Bolt 9 Nut 10 Washer 11 Bolt 12 Clump 13 Nut 14 Cable, Battery 15 Hole
- 16 Grommet 17 Nut 18 Washer 19 Bolt 20 Hold-Down 21 Battery 22 Nut 23 Washer 24 Nut 25 Flex Bolt 26 Tray, Battery 27 Nut 28 Screw 29 Hasp 30 Box, Battery



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Figure 4-1. Battery components removal and installation.

c. Specific Gravity Test. Specific gravity testing of the battery electrolyte determines the state of' charge in each battery cell. Use a hydrometer and thermometer, correcting the hydrometer reading for temperature (Note below). A corrected specific gravity reading of 1.285 in each cell indicates a fully charged battery. A specific gravity reading of 1.225 or less in each cell indicates that the battery must be recharged or replaced.

### NOTE

A temperature-corrected specific gravity measurement is obtained by adding 0.004 to the actual hydrometer reading for each 10 degrees F (5.5 degrees C) the electrolyte is above 80 degrees F (26.7 degrees C), or subtracting 0.004 from the actual hydrometer reading for each 10 degrees F (5.5 degrees C) the electrolyte is below 80 degrees F (26.7 degrees C).

### 4-7. Control Panel (fig. 4-2)

a. Removal.

(1) Remove cover plate screws (1). Lift off cover plate (2). Instruments and switches are attached to cover back side.

(2) Remove wires (3), screws (4) and remove hourmeter (5).

(3) Remove screws (6) and dampener (7).

(4) Remove wires (8), nuts (9), washers (10), wire

(11), clamp (12) and remove oil pressure gauge (13).

(5) Remove nuts (14), washers (15), wires (16), nuts (17), clamp (18) and remove ammeter (19).

(6) Remove all switch wires (20), nuts (21) and remove switches (22).

(7) Remove screws (23), washers (24), and wire assembly plug (25), from engine.

(8) Remove nut (26), screw (27), bracket (28), and dampener (29), from box (30).

(9) Remove nut (31), feed wires (20) through hole (32), and remove rubber washer (33), and steel washer (34), from wire assembly plug (25).

*b. Installation.* Installation is in the reverse of removal. (Wiring Diagram fig. 1-3 for re-wiring).

### **KEY TO FIGURE 4-2**

1 Screw 2 Cover Plate 3 Wire 4 Screw 5 Hourmeter 6 Screw 7 Dampener 8 Wire 9 Nut 10 Washer 11 Wire 12 Clamp 13 Gauge, Oil Pressure 14 Nut 15 Washer 16 Wire

18 Clamp 19 Ammeter 20 Wire 21 Nut 22 Switch 23 Screw 24 Washer 25 Wire Assembly Plug 26 Nut 27 Bolt 28 Bracket 29 Dampener 30 Box 31 Nut 32 Hole 33 Rubber Washer 34 Steel Washer

4-4

17 Nut

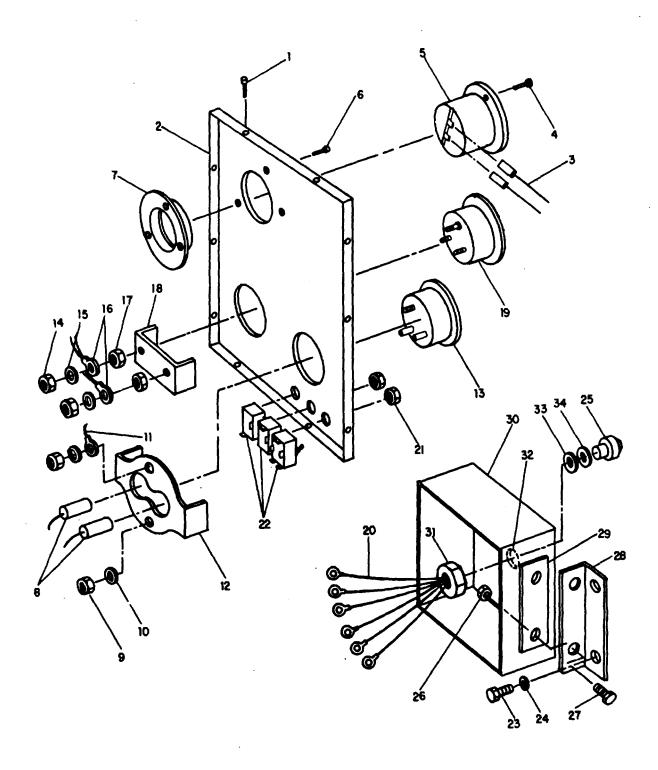


Figure 4-2. Control panel.

### 4-8. Fuel Strainer Service

*a.* Turn fuel strainer shutoff valve, (1. fig. 4-3), to closed position.

*b.* Loosen thumbscrew (2). Swing bail (3) to one side and remove bowl (4), gasket (5) and strainer (6) from head (7).

c. Inspect all parts for obvious damage and clean with solvent.

d. Reassembly in reverse of disassembly.

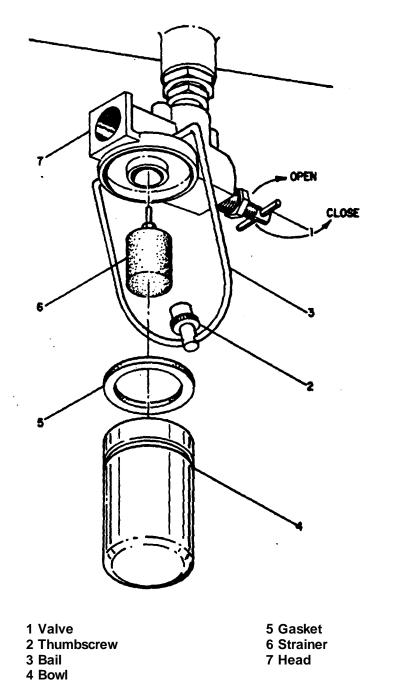


Figure 4-3. Fuel strainer.

### 4-9. Fuel Tank, Strainer and Gauge

a. Removal.

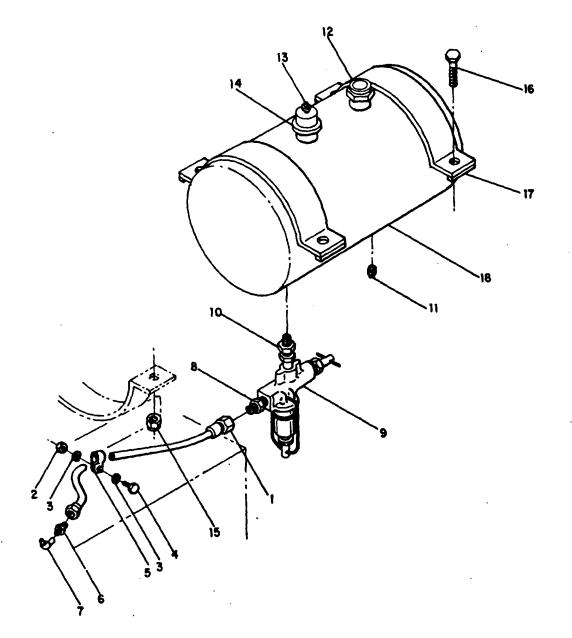
(1) Disconnect hose, (1. fig. 4-4).

(2) Remove nut (2), washers (3), bolt (4), clamp (5), and remove hose(I).

- (3) Remove adapter (6), and elbow (7) from engine.
- (4) Remove adapter (8), filter (9), and adapter (10).

(5) Remove drain plug (1 I.

- (6) Remove fuel gauge (12), breather (13), and cap (14).
- (7) Remove nuts (15), bolts (16), brackets (17), and remove tank (18).
  - b. Installation. Installation is in the reverse of removal.



ME3895-341-14/4-4

1 Hose	10 Adapter
2 Nut	11 Drain Plug
3 Washer	12 Fuel Gauge
4 Bolt	13 Breather
5 Clamp	14 Cap
6 Adapter	15 Nut
7 Elbow	16 Bolt
8 Adapter	17 Bracket
9 Strainer	18 Tank

Figure 4-4. Fuel tank, strainer and gauge.

### 4-10. Clutch Assembly Adjustment

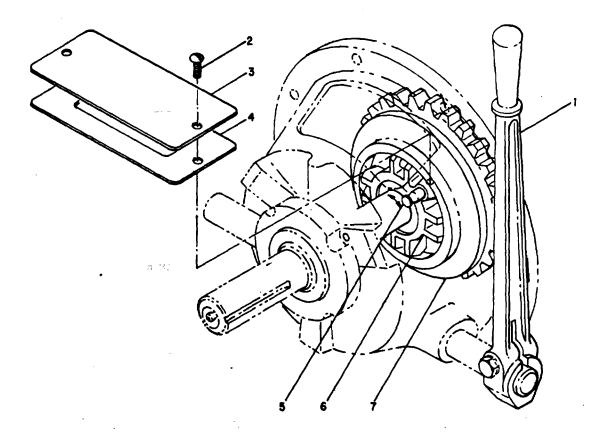
a. Place lever, (1. fig. 4-5') in disengaged position (para 2-3).

b. Remove screws (2), plate (3) and gasket (4).

c. Turn clutch until spring-loaded pin (5) is in full view. Pull out pin and turn adjusting yoke (6) in clockwise direction to tighten. Allow pin to reengage itself in one of the holes in the floating plate (7). d. Engage lever (1) to check clutch pressure. When a

slight pressure is felt at engagement with a snap into place, the clutch is adjusted properly. Disengage lever.

e. Replace gasket (4) and plate (3) with screws (2).



ME 3895-341-14/4-5

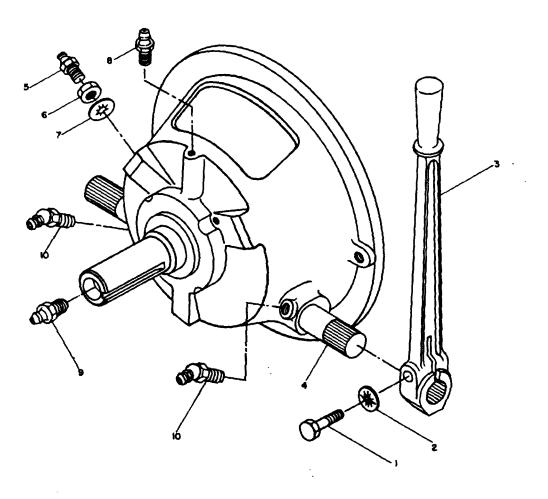
- 1 Lever, Operating
- 2 Screw, Machine
- 3 Plate, Model
- 4 Gasket
- 5 Pin
- 6 Yoke, Adjusting
- 7 Plate, Foating

Figure 4-5. Clutch Adjustment.

4-11. Operating Lever and Lube Fittings (fig. 4-6)

a. Removal.

- (1) Remove bolt (1, washer (2), and remove lever (3) from shaft (4).
- (2) Remove lube fitting 15), nut 16), and washer (7). (3) Remove remaining lube fittings (8), (9), and
- (10).
  - b. Installation. Installation is in the reverse of removal.



ME3895-341-14/4-6

1	Bolt	6 Nut
2	Washer	7 Washer
3	Lever	8 Lube Fitting
4	Shaft	9 Lube Fitting
5	Lube Fitting	10 Lube Fitting

Figure 4-6. Operating lever and lube fittings removal.

### 4-12. Drive Belt (fig. 4-7)

a. Adjustment.

(1) Loosen engine base upper nuts (1).

(2) Tighten engine lower nuts 12) equally around so that engine base (3) remains level.

(3) With fingers, squeeze belt (4) together, midway between pulleys (5) and (6). When the belt sides are approximately three inches apart, it is adjusted properly.

b. Removal.

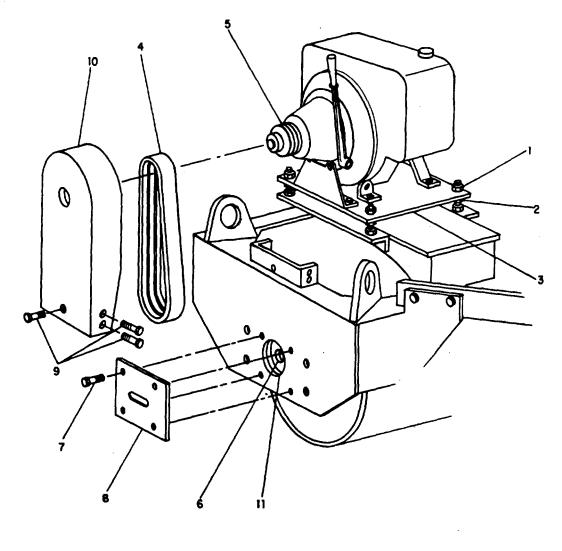
(1) Remove bolts (7) that secure cover plate (8) and remove cover plate.

(2) Remove bolts (9) that secure belt guard (10) and remove guard.

(3) Loosen engine base lower nuts (2) approximately 1/2 inch. This will allow engine base (3) to lower, and drive belt (4) to loosen. Disengage

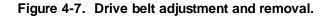
belt from pulley (5), free belt from pulley (6), using hole (1) for access and clearance. Lift belt (4) free.

c. Installation. Installation is in the reverse of removal.



ME3895-341-14/4-7

1	Nut	7	Bolt
2	Nut	8	Plate
3	Base	9	Bolt
4	Belt	10	Guard
5	Pulley	11	Hole
6	Pulley		



### 4-13. Roll Lube Fittings (fig. 4-8)

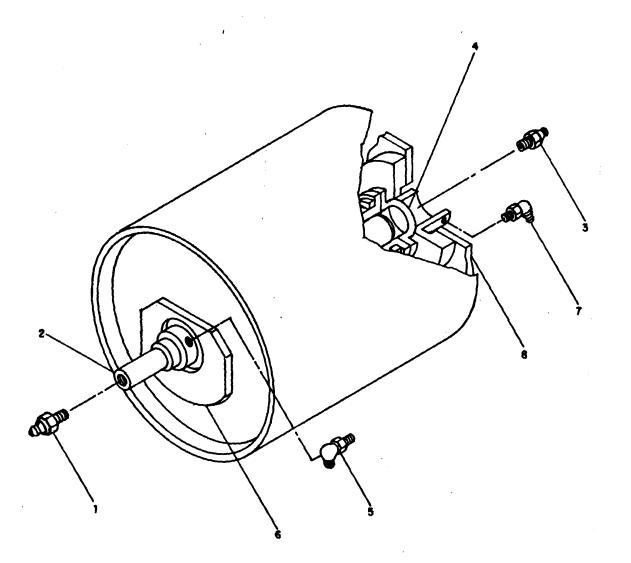
### a. Removal.

(1) Remove lube fitting 1) from end of shaft (2).

(2) Remove lube fitting (3) from end of bearing housing (4).

(3) Remove lube fitting (5) from flex mount (6).

(4) Remove lube fitting (7) from flex mount (8).b. Installation. Installation is in the reverse of removal.



NE 3895-341-14/4-8





### **KEY TO FIGURE 4-8:**

Lube Fitting
 Shaft
 Lube Fitting
 Bearing Housing
 Lube Fitting
 Flex Mount
 Lube Fitting
 Flex Mount

### Section VIII. ROLL, BLADE, MUFFLER, TEMPERATURE SWITCH TOWING EYE AND TONGUE

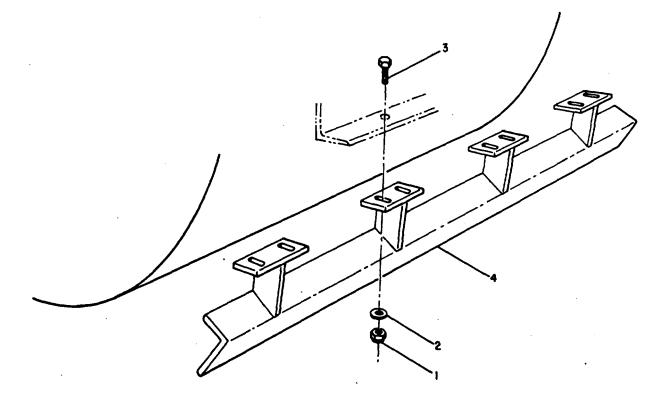
### 4-14. Scraper Blade (fig. 4-9)

a. Removal

- (1) Inspect for secure mounting.
- (2) Inspect for excessive wear.

(3) Removal Remove nuts (1), washers (2), bolts (3) and remove scraper blade (4).

b. Installation. Installation is in the reverse of removal.



ME 3895-341-14/4-9

- 1 Nut
- 2 Washer
- 3 Bolt
- 4 Scraper

Figure 4-9. Scraper blade removal.

### 4-15. Towing Components (fig. 4-10)

a. Removal.

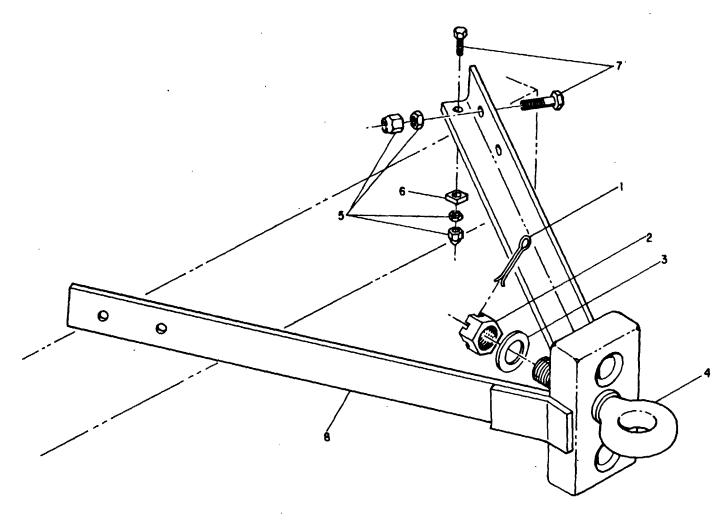
(1) Remove cotter pin (1), nut (2), washers (3) and remove towing eye (4).

(2) Remove nuts (5), washers (6), bolts (7) and remove towing tongue (8).

*b.* Installation. Installation is in the reverse of removal.

### **KEY TO FIGURE 4-10:**

- 1 Cotter Pin
- 2 Nut
- 3 Washer
- 4 Eye'
- 5 Nut
- 6 Washer
- 7 Bolt
- 8 Tongue



ME 3895-341-14/4-10

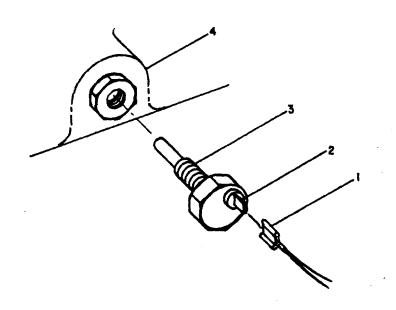
Figure 4-10. Towing Tongue and eye removal.

### 4-16. Muffler

a. Removal. Turn in counterclockwise direction.

- b. Installation. Installation is in the reverse of removal.
- 4-17. Temperature Switch (fig. 4-11)
- (1) Remove wire (1) from tab (2).
- (2) Remove temperature switch (3), from engine (4).
  - b. Installation. Installation is in the reverse of removal.

a. Removal.



ME 3895-341-14/4-11

- 1 Wire 2 Tab
- 3 Switch
- 4 Engine



### CHAPTER 5

# DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

### Section I. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

#### 5-1. Special Tools and Equipment

No special tools or equipment required.

### 5-2. Maintenance Repair Parts

Repair parts for direct and general support are listed in appendix D of this manual. Reference TM 5-2805-258-24P for engine repair parts listing.

### Section II. TROUBLESHOOTING

### 5-3. General

Malfunctions which may occur are listed in Table 5-1. Each malfunction stated is followed by a list of probable

causes. The corrective action recommended is described opposite the probable cause.

#### Table 5-1. Troubleshooting

Malfunction	Probable Cause	Corrective Action				
1. Vibrator shaft does not turn.	<ul> <li>a. Shaft bearings seized to shaft.</li> <li>b. Clutch slipping.</li> </ul>	<i>a.</i> Replace shaft hearings. <i>b.</i> Adjust or replace clutch disc.				
2. Engine	TM 5-2805-258-14	TM 5-2805-258-14				

### Section III. REMOVAL AND INSTALLATION OF MAJOR COMPONENTS

### 5-4. Power Takeoff

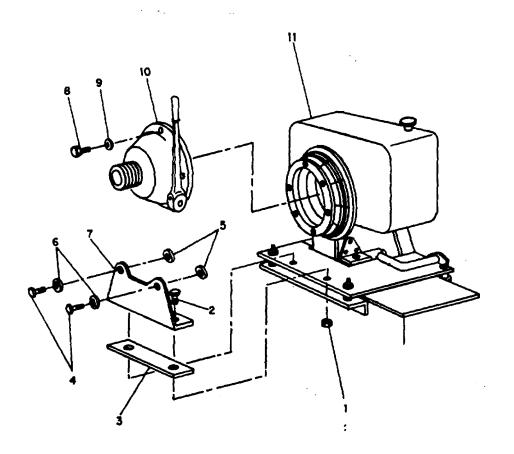
a. Removal (fig. 5-1)

(1) Remove belt guard and belt (para 4-12).

(2) Remove nuts (1), bolts (2), shim (3), bolts (4), washers (5) and (6) remove support (7).

(3) Remove bolts (7), washers (8), and remove power takeoff (9) from engine (10).

b. Installation. Installation is in the reverse of removal.



ME 3895-341-14/5-1

- 1 Nut 2 Bolt 3 Shim 4 Bolt 5 Washer 6 Washer 7 Support 8 Bolt 9 Washer
- 10 Power takeoff
- 11 Engine

#### Figure 5-1. Power takeoff removal.

### 5-5. Engine Assembly

- a. Removal (fig. 5-2).
  - (1) Remove belt guard and belt (para 4-12).
  - (2) Remove power takeoff (para 5-4).
- (3) Turn fuel strainer shutoff valve to closed position (para 4-9).

(4) Disengage latches (1) and remove engine top shroud (2).

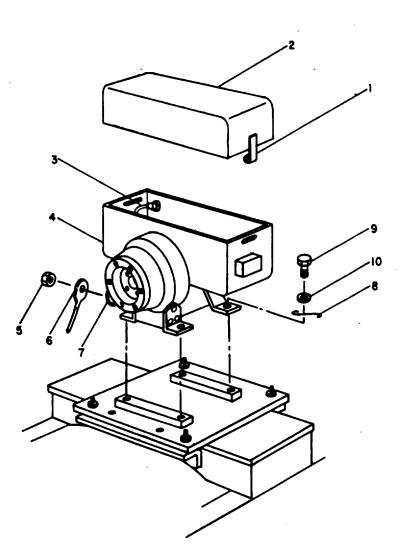
(5) Disconnect hose (3) at engine (4), and remove hose from engine.

(6) Remove nut (5) and battery cable (6) from starter (7).

(7) Remove wire (8), bolts (9), and washers (10).

(8) Attach suitable lifting device to engine. Reference TM 5-2805-258-14, and lift engine free.

b. Installation. Installation is in the reverse of removal.



ME-3895-341-14/5-2

1 Latch 2 Shroud 3 Hose 4 Engine 5 Nut 6 Cable 7 Starter 8 Wire 9 Bolt 10 Washer

Figure 5-2. Engine assembly removal.

### 5-6. Roll and Shaft Assembly

a. Removal. (fig. 5-3).

(1) Remove belt guard and belt (para 4-12).

(2) Place sling lifting hooks into eyes (1) and lift sling until hooks are taut in eyes. Do not lift roller.

(3) Remove nuts (2), bolts (3) and lift roller frame

(4) free of roll (5). Shims (6) may have been used between frame and flex mounts (7) to give an initial compression of approximately 1 / 16 inch to the flex mounts.

b. Installation. Installation is in the reverse of removal.

### KEY TO FIGURE 5-3:

1 Eye

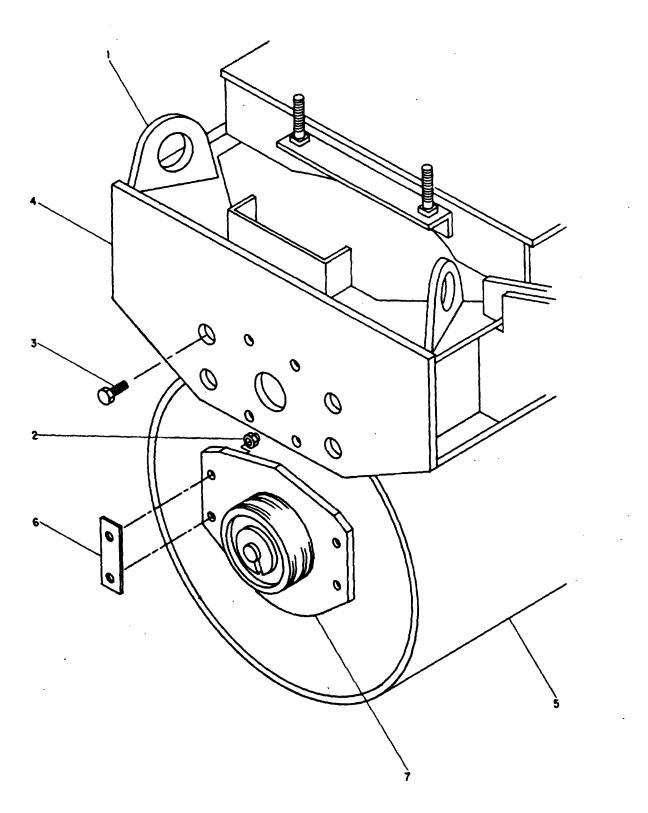
2 Nut

3 Bolt

4 Frame 5 Roll

6 Shim

7 Flex Mount



ME 3895-341-14/5-3

Figure 5-3. Roll and shaft assembly removal.

#### 6-1. General

The roll assembly consists of a roll, shaft, bearings, bearing housings, stub axles, pulley and flex mountings with bushings.

### 6-2. Removal

Remove nuts (1), bolts (2), bolts (3), and shims (4). (para 5-6).

### 6-3. Disassembly (fig. D-6)

- a. Remove bushing lock screw (5).
- b. Remove bushing (6), pulley (7) and remove key (8).
- c. Remove flex mounts (9) and thrust washers (10).

*d.* Remove nuts (11), stub axles (12) and (13). A slight tapping with a brass mallet around the periphery of the stub axles will release them.

e. Remove shaft (14). Place 3/4 inch diameter steel rod, 18 to 24 inches long, into hole provided in short end of shaft; and 1 ½l or 2 inch standard pipe, approximately 5 feet long, over long end of shaft. With one man holding the rod, a second man pushes on the pipe. Shaft is fed through the roll (15) in this manner. Pipe will not allow shaft to fall into roll. The bearing housing (16) at the short end of the shaft will come away with shaft. Remove bearing housing (16) and shims (17) from roll (15) and shaft (14).

*f.* Remove bearings (18) from bearing housings (16). Bearings are a light press fit into housings and must be removed with an arbor press. Use a 31h inch diameter piece of tubing or solid steel, 4 to 6 inches long, and place against bearing inner race.

g. Remove studs (19).

*h.* Remove grease fittings 120) from end of shaft 1141 and stub axle (13).

*i.* Remove screw (21), washer (22) and remove bushing

(23) from flex mount (9).

j. Remove grease fitting (24) from flex mount (9).

#### 6-4. Cleaning-Inspection-Repair

*a.* Clean all parts with an approved cleaning solvent and dry thoroughly.

*b.* Inspect grease hole in end of shaft that it is open. Clean out old grease with wire.

*c.* Inspect shaft bearing surfaces for build-up of carbon. Polish with very fine emery cloth.

*d.* Inspect bearing housings for out-of-roundness. Replace if .005 inch or more.

*e.* Inspect stub axles for scarred bushing surfaces. Replace -if scarred.

*f.* Inspect flex mounts for cracks in, or sagging of rubber. Replace if cracks are ¼ inch deep or more and if rubber is sagging 'A inch or more.

*g.* Bushing should be replaced anytime the roller is down for repairs.

*h.* Inspect bearings for scarred rollers or roller surfaces and for carbon build-up. Replace if bearing rollers are scarred or show a build-up of carbon. Bearing inner race must turn freely and smoothly.

### 6-5. Reassembly (fig. D-6)

*a.* Hand-pack the bearings (18) and fill the cavities of the stub axles (12) and (13) with grease. See latest lubrication order.

b. Reassembly is the reverse of disassembly.

*c.* When assembled, shaft (14) must have end play of 1/16 to  $\frac{1}{2}$  inch. This is accomplished by the use of shims (17) as required between the bearing housings (16) and roll (15).

#### 6-6. Installation. (para. 5-6)

Installation is in the reverse of removal.

### 7-1. General

The power takeoff houses the clutch, and when engaged, transmits power from the engine to the vibrator shaft through the drive belt. It is a dry-running clutch with single, one-piece molded driving disc with gear tooth engagement.

### 7-2. Removal

Remove belt (1), bolts (2), and washer (3) (para 5-4).

### 7-3. Disassembly (fig. D-3)

a. Remove bushing (4), pulley (5) and key (6).

b. Remove bolt (71, washer (8), and remove lever (9).

c. Remove screw (10), cover (11) and gasket (12).

*d.* Flatten washer (14). Remove nut (13) and washer (14).

e. Remove cotter pins (151 and pins (16).

f. Remove hub and back plate group (15), (17), (18),

(19), (20), (21), (22), (23), (24), (25) and (26) as a unit.

*g.* Remove adjusting yoke group (15), (18), (23), (24), (25) and (26) as a unit.

*h.* Remove floating plate (19), driving plate (20), springs (21) and plate pin (22) from hub and back plate (17).

*i.* Remove cotter pins (15), pins (23), finger levers (24), lock pin (25) and spring (26) from adjusting yoke (17).

j. Remove key (27).

*k.* Remove lube fittings (28), nut (29), washer (30), hose fitting (31), hose (32) and hose fitting (33).

*I.* Remove sliding sleeve group (15), (34), (35), (36) and (37).

*m.* Remove cotter pins (15), pins (35), links (36) and release bearing (37) from sliding sleeve (34).

*n.* Remove bolts (38) and washers (39). Tap end of shaft (41) lightly until keys (401 become visible. Remove keys (40), shaft (41) and operating yoke (42).

o. Remove snap ring (43), shaft (44) and lube fitting (45).

*p.* Remove bolts (46), washers (47), bearing retainer (48) and, remove bearing (49).

q. Remove lube fittings (50) from housing (51).

*r*. Remove bolts (52), washer (47), and remove driving ring (53).

s. Remove lock wires (54), bolts (55), washers (47), and remove adapter (56).

t. Remove bearing (57).

### 7-4. Cleaning-Inspection-Repair

*a.* Clean all parts with an approved cleaning solvent and dry thoroughly.

*b.* Inspect all parts for cracks, bad threads and excessive wear.

*c.* Inspect clutch shaft bearing surface for buildup of carbon. Polish with very fine emery cloth. Inspect that grease hole in end of shaft is open. Clean out with piece of wire.

*d.* Inspect bearing that it is smooth turning. Replace if rough turning or-showing carbon buildup that will not clean off.

e. Inspect floating and back plates for extreme discoloration on surface that contacts driving plate. Replace if excessive.

f. Inspect driving plate for wear. Replace if wear is greater than 1/8 inch.

g. Inspect release bearing for excessive wear in the groove and that the trunnions have no flat areas. Replace the release bearing as a unit only when necessary.

### 7-5. Reassembly (fig. D-3)

Reassembly is the reverse of disassembly.

### 7-6. Installation (para 5-4)

a. Installation is the reverse of removal.

b. Adjust clutch after installation (para 4-11).

### APPENDIX A

### REFERENCES

A-1. Fire Protection TB 5-4200-200-10 A-2. Lubrication	Hand Portable Fire Extinguishers for Army Users
C9100-IL LO 5-3895-341-12	Fuels, Lubricants, Oils and Waxes End Item LO
LO 5-2805-258-12 A-3. Painting	Engine LO
TM 9-213 A-4. Radio Suppression	Painting Instructions for Field Use
TM 11-483 A-5. Maintenance	Radio Interference Suppression
TM 38-750	Army Equipment Record Procedures
TM 5-2805-258-14	Operator, Organizational, Direct and General Support Maintenance Manual for Engine, Gasoline, 10 HP, Military Models 2A042-2 and 2A042-3
TM 5-2805-258-24P	Organizational, Direct and General Support Maintenance Repair Parts Manual for Gasoline Engine, Military Standard Models 2A042-2 and 2A042-3
TM 9-6140-200-15	Operator, Organizational, Field and Depot Maintenance Manual for Storage Batteries, Lead-Acid Type
A-6. Shipment and Storage	
TM 740-90-1	Administrative Storage of Equipment
TM 750-244-3	Procedures for Destruction of Equipment to

Procedures for Destruction of Equipment to Prevent Enemy Use

A-1

### BASIC ISSUE ITEMS LIST

### Section I. INTRODUCTION

#### B-1. Scope

This appendix lists items which accompany the roller or are required for installation, operation, or operator's maintenance.

### B-2. General

This Basic Issue Items List is divided into the following sections:

*a. Basic Issue Items-Section II.* A list of items which accompany the roller and are required by the crew/operator for installation, operation, or maintenance.

*b. Maintenance and Operating Supplies-Section III.* A listing of maintenance and operating supplies required for initial operation.

### **B-3. Explanation of Columns**

The following provides an explanation of columns in the tabular list of Basic Issue Items, Section II.

a. Source, Maintenance, and Recoverability Codes (SMR):

(1) Source code indicates the source for the listed item. Source codes are:

Code	Explanation
Р	Repair parts, Special Tools and Test Equipment
	supplied from the GSA / DSA, or Army supply
	system and authorized for use at indicated
	maintenance categories.
P2	Repair parts, Special Tools and Test Equipment which
	are procured and stocked for insurance purposes
	because the combat or military essentiality of the
	end item dictates that a minimum quantity be
М	available in the supply system.
IVI	Repair parts, Special Tools and Test Equipment which
	are not procured or stocked, as such, in the supply system but are to be manufactured at indicated
	maintenance levels.
А	Assemblies which are not procured or stocked as
7.	such, but are made up of two or more units. Such
	component units carry individual stock numbers and
	descriptions, are procured and stocked separately
	and can be assembled to form the required
	assembly at indicated maintenance categories.
Х	Parts and assemblies that are not procured or stocked
	because the failure rate is normally below that of the
	applicable end item or component. The failure of
	such part or assembly should result in retirement of
	the end item from the supply system.
X1	Repair parts which are not procured or stocked. The
	requirement for such items will be filled by use of
VO	the next higher assembly or component.
X2	Repair parts, Special Tools and Test Equipment which
	are not stocked and have no foreseen mortality.

The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage, the item may be requisitioned with exception data, from the end item manager, for immediate use.

G

R

S

Т

Manager, for infinitedate use. Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

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

Code Explanation

C Crew / Operator

(3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are nonrecoverable. Recoverability codes are:

Code Explanation

- Applied to repair parts, (assemblies and components) special tools and test equipment which are considered economically reparable at direct and general support maintenance levels. When the item is no longer economically repairable. it is normally disposed of at the GS level. When supply considerations dictate, some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-50. When so listed, they will be replaced by supply on an exchange basis.
  - Repair parts, special tools, test equipment and assemblies which are economically reparable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable. they will be evacuated to a depot for evaluation and analysis before final disposition.
    - High dollar value recoverable repair parts, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repatred or overhauled at depot maintenance activities only. No repair may be accomplished at lower levels.

Repair parts, special tools and test equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value or reusable casings or castings.

*b.* Federal Stock Number. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

*c.* Description. This column indicates the Federal item, name and any additional description of the item required. The abbreviation "w / e", when used as a part of the nomenclature, indicates the Federal stock number, includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parenthesis. Repair parts quantities included in kits, sets, and assemblies are shown in front of the repair part name.

*d.* Unit of Measure (U/M). A ,two-character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. Quantity Incorporated in Unit. This column indicates the quantity of the item used in the assembly group. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc.)

f. Quantity Furnished With Equipment. This column indicates the quantity of an item furnished with the equipment.

g. Illustration. This column is divided as follows:

(1) Figure number. Indicates the figure number of the illustration in which the item is shown.

(2) Item number. Indicates the callout number used to reference the item in the illustration.

B4. Explanation of the Columns in the Tabular List of Maintenance and Operating Supplies-Section III

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

*b.* Federal Stock Number. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

*c.* Description. This column indicates the item name and brief description.

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

e. Quantity Required for Eight Hours Operation. This column indicates the estimated quantities required for an average 8 hours of operation.

*f.* Notes. This column indicates informative notes keyed to data appearing in a preceding column.

### Section II. BASIC ISSUE ITEMS

(1)	(2)	(3)		(4)	(5)	(6)	(	(7)
				Unit	Qty	Qty	Illust	tration
SMR	Federal Stock	Description		of	inc	furn	(A)	(B)
code	Number	Ref No. & Mfr Code	Usable on code	meas	in	with	Fig	Item
					unit	equip	No.	No.
PC	7510-889-3494	Binder: Equipment Log Book		Ea		1		
PC	7520-559-9618	Case: Operator and Maintenance Publications		Ea		1		
		Department of the Army Operator and Organizational						
		Maintenance Manual TM 5-2805-258-14						
		DA Lubrication Order LO 5-3895-341-12				1		
		DA Technical Manual 5-3895-341-14 with Repair Parts				1		

B-3

### Section III. MAINTENANCE AND OPERATING SUPPLIES

(1)	(2)	(3)	(4)	(5)	(6)
Component	Federal	Description	Quantity	Quantity	Notes
application	stock number		required	required	
			F initial	F/8 hrs	
			operation	operation	
1. Tank Fuel	9130-160-	Fuel Gasoline: Automotive Bulk as follows:	10 GAL	12.5 GAL	(1) See C9100IL for additional data
	1818	91A Grade	(3)	(1)	and requisitioning procedures.
	(1)				
					(2) See current L.O. for Grade
2. Grease Points		Grease, Automotive and Artillery: 5 lb. Can as follows:	as req.		application and replenishment
	9150-190-	(2) GAA			intervals.
	0905	Grease, Ball and Roller Bearing: 5 lb. Can as follows:			
	(1)	(2) BR	as req.		(3) Tank capacity.
	9150-663-				
	9795				
	(1)				

B-4

APPENDIX C

### MAINTENANCE ALLOCATION CHART

### Section I. INTRODUCTION

#### C-1. General

*a.* This section 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 functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions

c. Section III. (Not applicable).

d. Section IV. (Not applicable).

#### C-2. Explanation of Columns in Section II

a. Group Number, Column (1). The assembly group is a numerical group assigned to each assembly in a topdown breakdown sequence. The applicable assembly groups are listed on the MAC in disassembly sequence beginning with the first assembly removed in a top-down disassembly sequence.

b. Functional Group, Column (2). This column contains a brief description of the components of each assembly group..

*c. Maintenance Functions, Column (3).* This column lists the various maintenance functions (A through K) and indicates the lowest maintenance category authorized to perform these functions. The symbol designations for the various maintenance categories are as follows:

C-Operator or crew

O-Organizational maintenance

F-Direct .support maintenance

H-General support maintenance

The maintenance functions are defined as follows:

A-Inspect: To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.

B-Test: To verify serviceability and to detect electrical or mechanical failure by use of test equipment.

C-Service: To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air. If it is desired that elements, such as painting and lubricating, be defined separately, they may be so listed.

D-Adjust: To rectify to the extent necessary to bring into proper operating range.

E-Aline: To adjust specified variable elements of an item to bring to optimum performance.

F-Calibrate: To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.

G-Install: To set up for use in an operational environment such as an emplacement, site, or vehicle.

H-Replace: To replace unserviceable items with serviceable like items.

I-Repair: Those maintenance operations necessary to restore an item to serviceable condition through correction of material damage or a specific failure. Repair may be accomplished at each category of maintenance.

J-Overhaul: Normally, the highest degree of maintenance performed by the Army in order to minimize time work in process is consistent with quality and economy of operation. It consists of that maintenance necessary to restore an item to completely serviceable condition as prescribed by maintenance standards in technical publications for each item of equipment. Overhaul non. ally does not return an item to like new, zero mileage, or zero hour condition.

K-Rebuild: The highest degree of material maintenance. It consists or restoring equipment as nearly as possible to new condition in accordance with original manufacturing standards. Rebuild is performed only when required by operational considerations or other paramount factors and then only at the depot maintenance category. Rebuild reduces to zero the hours or miles the equipment, or component thereof, has been in use.

*d. Tools and Equipment, Column (4).* This column is provided for referencing by code the special tools and test equipment. (section III) required to perform the maintenance functions (sec II).

*e. Remarks, Column (5).* This column is provided for referencing by code the remarks (sec IV) pertinent to the maintenance functions.

### Section II. MAINTENANCE ALLOCATION CHART

(1) G	(2)	(3) Maintenance functions								(4) Tools and	(5) Remarks			
R	Functional group		_		1					Γ.	Γ.		Tools and equipment	Remarks
0 U		_A	В	С	D	E	F	G	н		J	K		
P N U B E R		I N S P E C T	T E S T	S E R V I C E	A D J U S T	A L G N	A L B R A T E	I N S T A L L	R E P L A C E	R E P A I R	O V E R H A U L	R E B U I L D		
01 02 03 04 05 06 07	ENGINE ASSEMBLY Temperature Switch Muffler FUEL SYSTEM Tank, Fuel Fuel Strainer Gauge, Fuel POWER TAKE-OFF CLUTCH ASSEMBLY Drive Pulleys Shafts Bearings Drive Belt CONTROL PANEL Switches Gauges BATTERY & BATTERY BOX Battery Battery Cables Battery Box ROLL & SHAFTASSEMBLY Roll Shaft Bearings Bushings Axles Scraper, Roll FRAME & TOWING ATTACHMENT Tongue, Towing Towing Eye	c c c	0	с о	0				F00 000 FFF0 00 000 FFFFF0 00	F				

### **REPAIR PARTS LIST**

### Section I.. INTRODUCTION

### D-1. Scope

*a.* This appendix lists repair parts, special tools, test and support equipment required for the performance of organizational, direct support and general support maintenance of the roller.

*b.* Repair parts listed represent those authorized for use at indicated maintenance levels and will be requisitioned (on an "as required" basis until stockage is justified by demand in accordance with AR 735-35 or AR 710-2).

### D-2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Repair Parts-Section II. A list, in figure and item number sequence, of repair parts authorized at the organizational level for the performance of maintenance, including those items which must be removed for replacement of the authorized item. Items are listed by assembly group in top down breakdown sequence.

b. Special Tools, Test and Support Equipment-Section III. A list of special tools, test and support equipment authorized for the performance of maintenance at the organizational level. (Not Applicable)

c. Repair Parts-Section IV. A list, in figure and item number sequence, of the repair parts authorized for the performance of maintenance at the direct support and general support levels, including those items which must be removed for replacement of the authorized item. Items are listed by assembly group in top down breakdown sequence.

d. Federal Stock Number and Reference Number Index-Section VI. A list of Federal Stock Numbers in ascending numerical sequence, followed by a list of reference numbers appearing in all listings, in ascending alpha-numeric sequence, cross-referenced to the illustration figure and item number.

#### 3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in Sections II through V.

a. Source, Maintenance, Recoverability Codes (SMR).

(1) Source code indicates the source for the listed items. Source Codes are:

Code	Explanation
Р	Repair parts, Special Tools and Test Equipment supplied from the GSA / DSA, or Army supply system and authorized for use at indicated maintenance categories.
P2	Repair parts, Special Tools and Test Equipment which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
Μ	Repair parts, Special Tools and Test Equipment which are not procured or stocked, as such, in the supply system but are to be manufactured at indicated maintenance levels.
A	Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.
Х	Parts and assemblies that are not procured or stocked because the failure rate is normally below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.
X1	Repair parts which ire not procured or stocked. The requirement for such items will be filled by use of the next higher assembly or component.
X2	Repair parts, Special Tools and Test Equipment which are not stocked and have no foreseen mortality. The indicated maintenance level requiring such repair parts will attempt to obtain the parts through cannibalization or salvage, if not obtainable through cannibalization or salvage, the item may be requisitioned with exception data, from the end item manager, for immediate use.
G	Major assemblies that ore procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level. <b>NOTE</b>
for any i aircraft s	lization or salvage may be used as a source of supply items source coded above except those coded X1 and support items as restricted by AR700-42.
	Maintenance code indicates the lowest level of ance authorized to install the listed item. Repair
	· · · · · · · · · · · · · · · · · · ·

maintenance authorized to install the listed item. Repair parts and special tools assigned Maintenance Code "C" may be stocked at the operator level of maintenance when authorized by the Unit Commander. The maintenance level codes are:

Code

Code

Explanation

C ..... Crew or Operator maintenance

O ..... Organizational maintenance

F ..... Direct Support maintenance

H ..... General Support maintenance

(3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

Explanation

- R Applied to repair parts, (assemblies and components) special tools and test equipment which are considered economically reparable at direct and general support maintenance levels. When the item is, no longer economically repairable, it is normally disposed of at the GS level. When supply considerations dictate, some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-50. When so listed, they will be replaced by supply on an exchange basis.
- S Repair parts, special tools, test equipment and assemblies which are economically reparable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before final disposition.
- T High dollar value recoverable repair parts, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be evacuated to the depot for overhaul or final disposition. Communication-Electronics and missile support items will be repaired / overhauled only at depots.

U Repair parts, special tools and test equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value or reusable casings or castings.

*b.* Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

*c.* Description. Indicates the Federal item name and any additional description of the item required. Assembly components and subassemblies are indented under major assemblies. The abbreviation "w / e" when used as part of the nomenclature, indicates the Federal stock number, includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parenthesis. Repair parts quantities included in kits and sets are shown in front of the repair part name. Material required for manufacture or fabrication is identified.

*d.* Unit of Measure (U/M). A two-character alphabetic abbreviation indicating the amount or quantity of the item, as used, upon which the allowances are based, e.g., ft., ea., pr., etc.

e. Quantity Incorporated in Unit. Indicates the quantity of the item used in the assembly group. A "V" appearing in this column in. lieu of a quantity indicates that a definite quantity cannot be indicated, (e.g., shims, spacers, etc.).

#### f. Fifteen-Day Organizational Maintenance

(1) Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The allowance columns are divided into four subcolumns. Indicated in each subcolumn is the total quantity of special tools authorized for the number of equipments supported. (Not Applicable)

### g. Thirty-Day DS/ GS Maintenance Allowance

(1) Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The allowance columns are divided into three subcolumns. The quantitative allowance of special tools for DS / GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported. (Not Applicable)

h. Items Authorized.

(1) Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) This column indicates the total quantity of special tools required for distribution and contingency planning purposes. (Not Applicable)

*i. Illustration.* This column is divided as follows:

(1) Figure number. Indicates the. Figure number of the illustration on which the item is shown.

(2) Item number. Indicates the callout number used to reference the item on the illustration.

### 4. Special Information

a. Parts which require manufacture or assembly of a maintenance level higher than that authorized for installation will indicate in the source column the higher maintenance level.

*b.* The following publications pertain to roller and its components.

TM 5-2805-258-14	Operator, organizational, direct support and general support maintenance manual: Engine, gasoline, 10 hp, Military Standard models (model 2A042-2 and 2A042-3).
TM 5-2805-258-24P	Organizational, direct and general support maintenance repair parts and special tool lists: Engine, 10 hp,

Military Standard models (model 2A042-2 and 2A042-3).

LO 5-2805-258-12 Engine, gasoline, 10 hp, Military Standard Models (model 2A042-2 and 2A042-3).

LO 5-3895-341-12 Roller, towed, vibrating, airmobile, gasoline engine driven (Essick Model VR55TM).

*c.* The same illustrations are used to illustrate the repair parts and special tools listed in both organizational maintenance section and direct and general support and depot maintenance section.

#### 5. How to Locate Repair Parts

*a.* When the Federal Stock Number or Reference Number is Unknown:

(1) First. Using the table of contents, determine the assembly group within which the repair part belongs. This is necessary since illustrations are prepared for assembly groups, and listings are divided into the same groups.

(2) Second. Find the illustration covering the assembly group to which the repair part belongs.

(3) Third. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) Fourth. Using the Repair Parts Listing, find the assembly group to which the repair part belongs and locate the illustration figure and item number noted on the illustration.

*b.* When the Federal Stock Number or Reference Number is Known:

(1) First. Using the Index of Federal Stock Numbers and Reference Numbers find the pertinent Federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in alpha-numeric sequence, cross-referenced to the illustration figure number and item number. (2) Second. Using the Repair parts listing, find the assembly group of the repair part and the illustration figure number and item number referenced in the' Index of Federal Stock Numbers and Reference Numbers.

*c.* When the Federal Stock Number or Reference Number is Known and the Repair Part is not Illustrated:

(1) First. Using the Index of Federal Stock Numbers and Reference Numbers find the pertinent Federal stock number or reference number in the section titled "Items Not Illustrated" and note the group number. This section is in ascending FSN sequence followed by a list of reference numbers in alpha-numeric sequence cross-referenced to assembly group number.

(2) Second. Using the Table of Contents, locate the assembly group number and page number.

(3) Third. Using the applicable group number and page number, locate the pertinent stock number or reference number in the Repair Parts Listing.6. Abbreviations

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(1)	(2)	(3)	(4)	(5)	15		(6) GANIZAT NANCE A		ILI	(7) _US- ATION
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION USABLE ON	UNIT OF MEAS	QTY INC IN	(a) 1-5	(b) 6-20	(c) 21-50	(d) 50-100	(a) FIG. NO.	(b) ITEM NO.
-		REF NUMBER & MFR CODE CODE		UNIT						
		SECTION II - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE								
		GROUP 01 - ENGINE ASSEMBLY								
ΡO	2990-691-3185	MUFFLER WD66 (66289)	EA	1	*	*	*	*	D1	8
ΡO		ELBOW, EXHAUST: 45 DEG STREET, 1 IN. NPT	EA	1	*	*	*	*	D1	9
РО		911111 (20988) NIPPLE, EXHAUST: 1 ¼ IN. NPT, 3 INL LG	EA	1	*	*	*	*	D1	10
ΡO	8310-732-0558	912110 (20988) NUT, LOCK, HEXAGON: EXHAUST FLANGE MTG, 3/8-16 THD SIZE	EA	2	*	*	*	*	D1	11
ΡO	5310-637-9541	MS 51967-8 (96906) WASHER, LOCK: EXHAUST FLANGE MTG, 3/8 IN. SCREW SIZE	EA	2	*	*	*	*	D1	12
ΡO	5305-269-3215	MS 35338-46 (96906) SCREW, CAP, HEXAGON HEAD: EXHAUST FLANGE MTG, 3/8-16 THD SIZE, 1 <sup>3</sup> /4 IN. LG	EA	2	*	*	*	*	D1	13
X20		MS 90725-65 (96906) FLANGE, EXHAUST 104904 (20988)	EA	1					D1	14
ΡO	6150-405-4826	WIRE ASSEMBLY: TEMPERATURE SWITCH TO MAGNETO	EA	1	*	*	*	*	D1	15
ΡO	5930-111-1831	105022 (20988) SWITCH, TEMPERATURE 363AE (57733)	EA	1	*	*	*	*	D1	16
X20		ADAPTER, MODIFIED: ENGINE OIL PAN 105021 (20988)	EA	1					D1	17
		GROUP 02 - FUEL SYSTEM								
ΡO	4730-187-4201	PLUG, PIPE, SQUARE HEAD: TANK DRAIN, ¼ IN. NPT WWP471 (81348)	EA	1	*	*	*	*	D2	1
ΡO	5310-655-7145	NUT, LOCK, HEXAGON: FUEL HOSE CLAMP MTG, 5/16-18 THD SIZE	EA	1	*	*	*	*	D2	2
ΡO	5310-584-5272	42NE058 (72962) WASHER, FLAT: HOSE CLAMP MTG, ½ IN. SCREW SIZE	EA	1	*	*	*	*	D2	3
ΡO	5306-753-4322	MS35338-49 (96906) BOLT, MACHINE, HAXAGON HEAD: HOSE CLAMP MTG, 5/16-18 THD SIZE, 1 IN. LG	EA	1	*	*	*	*	D2	4
ΡO	5340-432-4025	MS51095-334 (96906) CLAMP: FUEL HOSE MTG	EA	2	*	*	*	*	D2	5
ΡO		TA639TD8 (84971) HOSE ASSEMBLY, FUEL: ENGINE 105019 (20988)	EA	1	*	*	*	*	D2	6
ΡO		ELBOW: FUEL PUMP 911004 (20988)	EA	1	*	*	*	*	D2	7
X20		ADAPTER: FUEL HOSE 835WM (30327)	EA	2					D2	8
ΡO		BUSHING: FUEL FILTER 911238 (20988)	EA	1	*	*	*	*	D2	9
X20	2805-413-6178	VENT, AIR: FÙEL TÁNK 304810 (95879)	EA	1					D2	10

(1)	(2)	(3)	(4)	(5)	15		(6) GANIZAT NANCE A		ILI	(7) _US- \TION
SMR	FEDERAL	DESCRIPTION	UNIT	QTY	(a)	(b)	(c)	(d)	(a)	(b)
CODE	STOCK NUMBER	USABLE ON REF NUMBER & MFR CODE CODE	OF MEAS	INC IN UNIT	1-5	6-20	21-50	50-100	FIG. NO.	ITEM NO.
ΡO	2910-425-5900	CAP, FUEL TANK	EA	1	*	*	*	*	D2	11
ΡO		105018 GAGE, FUEL	EA	1	*	*	*	*	D2	12
FU		6680L 12H70 (09393)	LA	I					DZ	12
ΡO	5310-763-8905	NUT, LOCK, HEXAGON: FUEL TANK MTG, 5/8-18 THD SIZE	EA	4	*	*	*	*	D2	13
ΡO	5305-725-4105	MS51968-20 (O6906) SCREW, CAP, HEXAGON HEAD: HEAT TREAT, FUEL TANK MTG, 5/8-18 THD SIZE, 2 IN. LG	EA	4	*	*	*	*	D2	14
X20		MS90726-164 (96906) STRAP: FUEL TANK MTG	EA	2					D2	15
	0040 405 5000	104766 (20988)			*	*	*	*	Do	10
ΡO	2910-425-5899	TANK, FUEL 104765 (20988) GROUP 03 - POWER TAKE-OFF CLUTCH ASSEMBLY	EA	1	Î	*	*	*	D2	16
ΡO	3030-758-9704	BELT, DRIVE	EA	1	*	*	*	*	D3	1
ΡO	5305-475-0631	4-3\850 (11288) SCREW, CAP, HEXAGON HEAD: HEAT TREAT, CLUTCH HAND LEVER, ½-13 THD SIZE	EA	1	*	*	*	*	D3	7
ΡO	5310-194-1483	M2004R (61208) WASHER, LOCK: INTERNAL TOOTH, HAND LEVER MTG, ½ IN. SCREW SIZE	EA	1	*	*	*	*	D3	8
X20	3040-653-9200	MS35333-44 (96906) LEVER, HAND 3799 (61208)	EA	1						9
ΡO	5305-236-3598	SCREW, MACHINE: COVER PLATE MTG, %-20 THD SIZE, ½ IN. LG	EA	2	*	*	*	*	D3	10
X20		M2023F (61208) PLATE, INSTRUCTION COVER	EA	1						11
ΡO	5330-414-9267	1965A (61208) GASKET: INSTRUCTION COVER PLATE A1339A (61208)	EA	1	*	*	*	*	D3	12
ΡO	4730-050-4208	FITTING, LÜBRICÁTION: CLUTCH, 1/8 IN. NPTF	EA	2	*	*	*	*	D3	28
ΡO	5310-655-7423	MS15003-1 (96906) NUT, JAM, HEXAGON: CLUTCH, 5/8-18 THD SIZE	EA	1	*	*	*	*	D3	29
ΡO	5310-543-4385	M2027AN (61208) WASHER, LOCK: INTERNAL TOOTH, CLUTCH, 5/8 IN. SCREW SIZE	EA	1	*	*	*	*	D3	30
ΡO	4730-048-1788	MS 35333-46 (96906) FITTING, LUBRICATION: CLUTCH, ¼ IN. NPTF	EA	1	*	*	*	*	D3	45
ΡO	4730-050-4203	6026 (03990) FITTING, LUBRICATION: CLUTCH, %-28 THD SIZE	EA	2	*	*	*	*	D3	50
ΡO	5305-984-4988	6009 (03990) GROUP 04 - CONTROL PANEL SCREW, MACHINE: CONTROL PANEL BOX, NO. 6-32 THD SIZE, 3/8 IN. LG	EA	10	*	*	*	*	D4	1
ΡO	5975-280-6079	MS35206-228 (96906) NUT, LOCK, HEXAGON: CONTROL PANEL BOX MS 39081-10 (96906)	EA	1	*	*	*	*	D4	2

(1)	(2)	(3)		(4)	(5)	15		(6) GANIZATI NANCE AI	-	ILL	(7) LUS- LTION
SMR	FEDERAL	DESCRIPTION		UNIT	QTY	(a)	(b)	(c)	(d)	(a)	(b)
CODE	STOCK NUMBER	(	ABLE ON ODE	OF MEAS	INC IN UNIT	1-5	6-20	21-50	50-100	FIG. NO.	ITEM NO.
ΡO	5310-432-4466	WASHER, RUBBER: ELECTRICAL INLET		EA	1	*	*	*	*	D4	3
		PLUB 105009 (20988)									
ΡO	5310-432-4467	WASHER, FLAT: ELECTRICAL INLET PLUB 300490 (20988)		EA	1	*	*	*	*	D4	4
ΡO	5935-431-4889	PLUG, WIRE ASSEMBLY 105011 (20988)		EA	1	*	*	*	*	D4	5
ΡO	5310-208-1919	NUT, LOCK, HEXAGON: BOX SUPPORT ANGLE MTG, ½-20 THD SIZE		EA	4	*	*	*	*	D4	6
ΡO	5305-068-0502	29NE040 (72962) SCREW, CAP, HEXAGON HEAD: BOX SUPPORT ANGLE MTG, ¼-20 THD SIZE, ¾ IN. LG MS90725-6 (96906)		EA	1	*	*	*	*	D4	7
X20		BRACKET, PANEL		EA	1					D4	8
ΡO		104965 (20988) DAMPENER, PANEL		EA	1	*	*	*	*	D4	9
X20		105007 (20988) BOX, CONTROL PANEL		EA	1					D4	10
ΡO	6150-405-2211	104968 (20988) WIRE ASSEMBLY: START SWITCH TO HOURMETER		EA	1	*	*	*	*	D4	11
ΡO	6150-428-7518	105015 (20988) WIRE ASSEMBLY: HOURMETER TO OIL PRESSURE GAGE		EA	1	*	*	*	*	D4	12
ΡO	6150-405-2205	105017 (20988) WIRE ASSEMBLY: RUN-STOP SWITCH TO START SWITCH		EA	1	*	*	*	*	D4	13
ΡO		105012 (20988) WIRE ASSEMBLY: RUN-STOP SWITCH TO OIL PRESSURE SWITCH		EA	1	*	*	*	*	D4	14
ΡO		105013 (20988) WIRE ASSEMBLY: RUN-STOP SWITCH TO AMMETER		EA	1	*	*	*	*	D4	15
ΡO	6150-405-4825	105016 (20988) WIRE ASSEMBLY: RUN-STOP SWITCH TO OIL PRESSURE GAGE 105014 (20988)		EA	1	*	*	*	*	D4	16
ΡO	5305-889-3000	SCREW, MACHINE: CONTROL PANEL COVER MTG, NO. 6-32 THD SIZE, ½ IN. LG MS 35206-230 (96906)		EA	6	*	*	*	*	D4	17
ΡO	6645-089-8842	METER, HOUR		EA	1	*	*	*	*	D4	18
ΡO	5310-579-0079	MODEL 771 (26992) WASHER, LOCK: INTERNAL TOOTH, CONTROL PANEL COVER MTG, NO. 6 THD SIZE		EA	6	*	*	*	*	D4	19
ΡO	2815-786-1564	MS35333037 (96906) DAMPENER: HOURMETER		EA	1	*	*	*	*	D4	20
ΡO	6620-056-9584	M3888 (57733) GAGE, OIL PRESSURE		EA	1	*	*	*	*	D4	21
ΡO	6625-272-9928	505T (57733) AMMETER		EA	1	*	*	*	*	D4	22
ΡO	5930-655-1582	359L (57733) SWITCH, TOGGLE: ENGINE RUN-STOP		EA	1	*	*	*	*	D4	23
ΡO	5930-655-1521	MS35059-23 (96906) SWITCH, TOGGLE: OIL PRESSURE MS35058-29 (96906)		EA	1	*	*	*	*	D4	24

(1)	(2)	(3)		(4)	(5)	15		(6) GANIZAT NANCE A		ILI	(7) _US- ATION
SMR	FEDERAL	DESCRIPTION		UNIT	QTY	(a)	(b)	(c)	(d)	(a)	(b)
CODE	STOCK NUMBER		USABLE ON CODE	OF MEAS	INC IN UNIT	1-5	6-20	21-50	50-100	FIG. NO.	ITEM NO.
ΡO	5930-655-1522	REF NUMBER & MFR CODE SWITCH, TOGGLE: ENGINE START	CODE	EA	1	*	*	*	*	D4	25
X20		MS35058-30 (96906) PLATE, INDICATING		EA	1					D4	26
X20		104972 (20988) COVER, CONTROL PANEL		EA	1					D4	27
720		104967 (20988)		En						Dq	21
		GROUP 05 - BATTERY AND BATTERY BOX									
ΡO	5310-655-7145	NUT, LOCK, HEXAGON: BATTERY TRAY MTG, 5/16-18 THD SIZE 43NE058 (72962)		EA	12	*	*	*	*	D5	1
ΡO	5310-081-4219	WASHER, FLAT: BATTERY HOLD-DOWN, GROUND CABLE AND CLAMP MTG, 5/16 IN. SCREW SIZE MS17183-12 (96906)		EA	4	*	*	*	*	D5	2
ΡO	5306-753-4322	SCREW, CAP, HEXAGON HEAD: CABLE CLAMP MTG, 5/16-18 THD SIZE, 1 IN. LG		EA	2	*	*	*	*	D5	3
		MS51095334 (96906) CABLE, GROUND: BATTERY		EA	1	*	*	*	*	D5	4
ΡO	6150-257-1472	105004 (20988) CABLE, JUMPER: BATTERY		EA	1	*	*	*	*	D5	5
ΡO	5340-432-4021	105005 (20988) CLAMP, CABLE: BATTERY TA611S7 (84971)		EA	3	*	*	*	*	D5	6
ΡO	5325-432-4739	GROMMET: BATTERY BOX 11022 (98388)		EA	1	*	*	*	*	D5	7
ΡO		CABLE, LEAD: BATTERY 105006 (20988)		EA	1	*	*	*	*	D5	8
ΡO		BOLT, HOLD-DOWN: BATTERY 101643 (20988)		EA	2					D5	9
X20		HOLD-DOWN, BATTERY 104770 (20988)		EA	1					D5	10
X20	6140-057-2553	BATTERY: 12v 2HN11 (88169)		EA	2	*	*	*	*	D5	11
ΡO	5310-984-3806	NUT, LOCK, HEXAGON: BATTERY TRAY MTG, 5/16-18 THD SIZE		EA	8	*	*	*	*	D5	12
ΡO	5306-450-0372	MS51922-9 (96906) MOUNTING, FLEXIBLE BOLT: BATTERY TRAY MTG		EA	8	*	*	*	*	D5	13
ΡO		J46243 (76005) TRAY, BATTERY		EA	1						14
X20	5310-208-1918	104769 (20988) NUT, LOCK, HEXAGON: HASP MTG, NO. 10-24 THD SIZE		EA	4	*	*	*	*	D5	15
ΡO	5305-984-6210	AN365-1024A (88044) SCREW, MACHINE: HASP MTG, NO. 10-24		EA	4	*	*	*	*	D5	16
ΡO		THD SIZE, ½ IN. LG MS 35206-263 (96906) HASP: BATTERY BOX		EA	2					D5	17
X20		2033 (78252)									
_		GROUOP 06 - ROLL AND SHAFT ASSEMBLY									
ΡO	4730-172-0034	FITTING, LUBRICATION: FLEXIBLE MOUNT BUSHING, 90 DEG X 1/8 IN. NPTF 6007 (03990)		EA	2	*	*	*	*	D6	12

(1)	(2)	(3)		(4)	(5)	15		(6) GANIZAT NANCE A		ILI	(7) _US- ATION
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	(a) 1-5	(b) 6-20	(c) 21-50	(d) 50-100	(a) FIG. NO.	(b) ITEM NO.
ΡO	4730-050-4208	FITTING: LUBRICATION, VIBRATOR SHAFT BEARING, 1/8 IN. NPTF MS15003-1 (96906)	0002	EA	2	*	*	*	*	D6	24
		GROUP 07 - FRAME AND TOWING ATTACHMEN	ITS								
ΡO	5310-087-4652	NUT, LOCK, HEXAGON: GUARD MTG, 3/8-16 THD SIZE MS51922-17 (96906)		EA	5	*	*	*	*	D7	1
ΡO	5305-269-3211	SCREW, CAP, HEXAGON HEAD: GUARD MTG, 3/8-16 THD SIZE, 1 IN. LG MS90725-60 (96906)		EA	5	*	*	*	*	D7	2
X20		GUARD, BELT		EA	1					D7	3
ΡO	5305-253-5614	104773 (20988) SCREW, DRIVE: PLATE MTG, NO. 4 X 3/16 IN. LG, TYPE U		EA	12	*	*	*	*	D7	4
X20		MS21318-20 (96906) PLATE, INSTRUCTION 105025 (20988)		EA	1					D7	5
ΡΟ	5305-450-0385	SCREW, LOCK, HEXAGON HEAD: COVER PLATE MTG, 3/8-16 THD SIZE, % IN. LG		EA	4	*	*	*	*	D7	6
ΡO	5310-595-7237	967016 (20988) WASHER, LOCK, INTERNAL TOOTH, COVER PLATE MTG, 3/8-16 THD SIZE,		EA	4	*	*	*	*	D7	7
X20		MS35333-42 (96906) PLATE, COVER: DRIVEN PULLEY 104856 (20988)		EA	1					D7	8
ΡO	5310-732-0558	NUT, LOCK, HEXAGON: SCRAPER MTG, 3/8-16 THD SIZE MS51967-8 (96906)		EA	8	*	*	*	*	D7	9
ΡO	5310-209-1962	WASHER, FLAT: SCRAPTER MTG, 3/8 IN. SCREW SIZE		EA	8	*	*	*	*	D7	10
ΡO	5305-269-3214	61-0542-1 (42280) SCREW, CAP, HEXAGON HEAD: SCRAPER MTG, 3/8-16 THD SIZE, 1 ½ IN. LG MS90725-64 (96906)		EA	8	*	*	*	*	D7	11
ΡO	3895-425-5901	SCRAPER, ROLL 101465 (20988)		EA	1	*	*	*	*	D7	12
ΡO	5310-980-7524	NUT, LOCK, HEXAGON: TONGUE MTG, %-10 THD SIZE 49NE120 (72962)		EA	6	*	*	*	*	D7	13
ΡO	5310-763-8921	NUT, HEXAGON: TONGUE MTG, %-10 THD SIZE MS51967-23 (96906)		EA	4	*	*	*	*	D7	14
ΡO	5310-838-1702	NUT, JAM, HEXAGON: TONGUE MTG, ¾-10 THD SIZE		EA	2	*	*	*	*	D7	15
X20		MS35691-57 (96906) WASHER, BEVELED: TONGUE MTG, % IN. SCREW SIZE		EA	2					D7	16
ΡO	5305-716-6318	923618 (20988) SCREW, CAP, HEXAGON HEAD: HEAT TREAT, TONGUE MTG, %-10 THD		EA	6	*	*	*	*	D7	17
X20		SIZE, 2 ¾ IN. LG 963560 (20988) TONGUE, TOWING		EA	1					D7	18
ΡO	5315-187-9600	104751 (20988) PIN, COTTER: TOWING EYE, 3/8 IN. DIA, 4 IN. LG MS24665-754 (96906)		EA	1	*	*	*	*	D7	19

(1)	(2)	(3)		(4)	(5)	15		(6) GANIZAT NANCE A		IL	(7) LUS- ATION
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	(a) 1-5	(b) 6-20	(c) 21-50	(d) 50-100	(a) FIG NO	(b) ITEM NO.
ΡO	5310-450-0317	NUT, SLOTTED, HEXAGON: TOWING EYE, 1 ¾ IN. THD SIZE		EA	1	*	*	*	*	D7	20
ΡO	5310-432-8206	968433 (20988) WASHER, FLAT: TOWING EYE, 1 ¾ IN. SCREW SIZE		EA	2	*	*	*	*	D7	21
X20		923180 (20988) EYE, TOWING 104750 (20988)		EA	1					D7	22
X20		PIN, STAND 925128 (20988)		EA	2					D7	23
X20		STAND 104843 (20988)		EA	2					D7	24
X20		PLATE, IDENTIFICATION 105023 (20988)		EA	1					D7	25
X20		PLATE, TRANSPORTATION 105024 (20988)		EA	1					D7	26

(1)	(2)	(3)	(4)	(5)		(6) DAY DS N ALLOWAN			(7) AY GS M LOWAN		(8)	(9)	(10) ILLUSTRA	) ATION
		DESCRIPTION		QTY	(a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR CODE	FEDERAL STOCK NUMBER	USABLE ON REF. NUMBER & MFR CODE CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGCY	ALW PER 100 EQUIP	FIG NO.	ITEM NO.
		SECTION IV - REPAIR PARTS FOR DS,CGS MAINTENANCE GROUP 01 - ENGINE ASSEMBLY												
ΡF	5305-269-3214	SCREW, CAP, HEXAGON HEAD: HEAT TREAT, CLUTCH MTG, 3/816 THD SIZE 1 1/2 IN. LG MS90725 (96906)	EA	2	*	*	*	*	*	*	*	*	D1	1
ΡF	5310-209-1962	WASHER, FLAT: CLUTCH SUPPORT, 3/8 IN. SCREW SIZE	EA	2	*	*	*	*	*	*	*	*	D1	2
ΡF	5310-595-7237	61-0542 (42280) WASHER, LOCK: INTERNAL TOOTH, ENGINE AND CLUTCH SUPPORT MTG, 3/8 IN. SCREW SIZE	EA	6	*	*	*	*	*	*	*	*	D1	3
ΡF	5310-59-7421	MS35333-42 (96906) NUT, LOCK, HEXAGON: ENGINE BRACKET MTG, 1/2-13 THD SIZE	EA	3	*	*	*		*	*	*	*	D1	4
ΡF	5305-042-6417	MS17829-8C (96906) SCREW, CAP, HEXAGON HEAD: HEAT TREAT, ENGINE BRACKET MGT, 1/2-13 THD SIZE, 1 // IN. LG	EA	3	*	*	*	*	*	*	*	*	D1	5
X2F		MS90725-113 (96906) SUPPORT POWER TAKEOFF	EA	1									D1	6
ΡF	5365-472-5296	104899 (20988) SHIM, LEVELING: 18 GAGE THK	EA	1	*	*	*	*	*	*	*	*	D1	7
ΡF	5365-451-8980	104901 (20988) SHIM, LEVELING: 16 GAGE THK	EA	1	*	*	*	*	*	*	*	*	D1	8
ΡO	2990-691-3185	104900 (20988) MUFFLER	EA	1	*	*	*	*	*	*	*	*	D1	9
ΡO		WD66 (66289) ELBOW, EXHAUST: 45 DEG STREET, 1 IN. NPT	EA	1	*	*	*	*	*	*	*	*	D1	10
ΡO		911111 (20988) NIPPLE, EXHAUST: 1 ¼ IN. NPT, 3 IN. LG	EA	1	*	*	*	*	*	*	*	*	D1	11
ΡO	5310-732-0558	912110 (20988) NUT, LOCK, HEXAGON: EXHAUST FLANGE MTG. 3/8-16 THD SIZE MS51967-8 (96906)	EA	2	*	*	*	*	*	*	*	*	D1	12
ΡO	5310-637-9541	WASHER, LOCK: EXHAUST FLANGE MTG, 3/8 IN. SCREW SIZE MS35338-46 (96906)	EA	2	*	*	*	*	*	*	*	×	D1	13
P 0	5305-269-3215	SCREW, CAP, HEXAGON HEAD: EXHAUST FLANGE MTG, 3/8-16 THD SIZE, 1 3/4 IN. LG	EA	2	*	*	*	*	*	*	*	*	D1	14
X20		MS90725-65 (96906) FLANGE EXHAUST	EA	1										
ΡO	6150-405-4826	104904 (20988) WIRE ASSEMBLY: TEMPERATURE SWITCH TO MAGNETO	EA	1	*.	*	*	*	*	*	*	*	D1	15
ΡO	5930-111-1831	105022 (20988) SWITCH, TEMPERATURE	EA	1	*	*	*	*	*	*	*	*	D1	16
X20		363AE (57733) ADAPTER, MODIFIED: ENGINE OIL PAN	EA	1									D1	17
ΜF		105021 (20988) WIRE, LOCK, SCREW RETAINING, REAR ENGINE MTG BRACKET QQW4423 (81348)	SL	2									D1	18
ΡF	9505-242-7527	MANUFACTURER FROM: WIRE, STEEL, 18 GAGE X 11 IN. LG			*	*	*	*	*	*	*	*		
L	1	l	<u> </u>	I	I	-							,	<u> </u>

(1)	(2)	(3)		(4)	(5)	30-	(6) DAY DS M ALLOWAN		30-D/	(7) AY GS M LOWAN		(8)	(9)	(10) ILLUSTR/	
		DESCRIPTION			QTY	(a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR CODE	FEDERAL STOCK NUMBER	L REF. NUMBER & MFR CODE	JSABLE ON CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGCY	ALW PER 100 EQUIP	FIG NO.	ITEM NO.
OODL	NUMBER		CODE	iner to	0.111										
ΡF	5305-939-1185	SCREW, CAP, HEXAN HEAD HEAT TREAT ENGINE SUPPORT, MTG, 3/8-16 THD SIZE, 1 1/4 IN. LG		EA	4	*	*	*	*	*	*	*	*	D1	19
ΡF	530-735322	MS1095-361 (96906) BOLT, MACHINE, HEXAGON HEAD: HEAT TREAT, ENGINE BRACKET MTG, 5/16-18 THD SIZE 11N. LG		EA	10	*.	*	*	*	*	*	*	*	D1	20
ΡF	5310l-9566	MS51095-334 (96906) WASHER, LOCK: ENGINE BRACKET MTG, 5/16 IN. SCREW SIZE		EA	6	*	*	*	*	*	*	*	*	D1	21
X2F		MS35338-45 (96906) BRACKET: ENGINE SUPPORT		EA	2									D1	22
MF		104895 (20988) WIRE, LOCK: SCREW RETAINING, END ENGINE MTG BRACKET QQW23 (81348)		SL	4									D1	23
P F X2F	9505-242-7527	MANUFACTURE FROM: WIRE, STEEL, 18 GAGE X 9 IN. LG BRACKET: ENGINE SUPPORT 104898 (20988)		EA	1	*	*	*	*	*	*	*		D1	24
ΡF	5310-838-1702	NUT, JAM, HEXAGON, ENGINE BASE MTG, %-10 THD SIZE MS35691-57 (96906)		EA	8	*	*	*	*	*	*	*	*	D1	25
X2F		BASE, ENGINE 105010 (20988)		EA	1	*	*	*	*	*	*	*	*	D1	26
ΡF	2805-872-5971	ENGINE, GASOLINE: MODEL 2A042-3 13206E0500 (97403)		EA	1	*	*	*	*	*	*	*	*	D1	27
		GROUP 02 - FUEL SYSTEM													
ΡO	4730-187-4201	PLUG, PIPE, SQUARE HEAD: TANK DRAIN, 1/4 IN. NPT WWP471 (81348)		EA	1	*	*	*	*	*	*	*	*	D2	1
ΡO	5310-655-7145	NUT, LOCK, HEXAGON: FUEL HOSE CLAMP MTG, 5/16-18 THD SIZE 42NE058 (72962)		EA	1	*	*	*	*	*	*	*	*	D2	2
ΡO	5310-584-5272	WASHER, FLAT: HOSE CLAWP MTG, 1/2 IN. SREW SIZE		EA	1	*	*	*	*	*	*	*	*	D2	3
ΡO	5306-753-4322	MS35338-48 (96906) BOLT, MACHINE, HEXAGON HEAD HOSE CLAMP MTG, 5/16-18 THD SIZE, 1 IN. LG		EA	1	*	*	*	*	*	*	*	*	D2	4
ΡO	5340-432-4025	MS51095-334 (96906) CLAMP: FUEL HOSE MTG TA639TD8 (84971)		EA	2	*	*	*	*	*	*	*	*	D2	5
ΡO		HOSE ASSEMBLY, FUEL: ENGINE 105019 (20988)		EA	1	*	*	*	*	*	*	*	*	D2	6
ΡO		ELBOW: FUEL PUMP 911004 (20988)		EA	1	*	*	*	*	*	*	*	*	D2	7
X20		ADAPER: FUEL HOSE 835WM (30327)		EA	2	*	*	*	*	*	*	*	*	D2	8
ΡO		BUSHING: FUEL FILTER 911238 (20988)		EA	1	*	*	*	*	*	*	*	*	D2	9
X20	2805-413-6178	VENT, AIR: FUEL TANK 304810 (95879)		EA	1	*	*	*	*	*	*	*	*	D2	10
ΡO	2910-425-5900	CAP, FUEL TANK 105018 (20988)		EA	1	*	*	*	*	*	*	*	*	D2	11

(1)	(2)	(3)	(4)	(5)	30-	(6) DAY DS M ALLOWAN	1AINT CE	30-D/	(7) AY GS M LOWAN		(8)	(9)	(10) ILLUSTR/	ATION
		DESCRIPTION		QTY	(a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR CODE	FEDERAL STOCK NUMBER	USABLE ON REF. NUMBER & MFR CODE CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGCY	ALW PER 100 EQUIP	FIG NO.	ITEM NO.
РO		GAGE, FUEL	EA	1	*	*	*	*	*	*	*	*	D2	12
ΡO	5310-763-8905	668OL12H70 (09393) NUT, LOCK, HEXAGON: FUEL TANK MTG, 5/8-18 THD SIZE	EA	4	*	*	*	*	*	*	*	*	D2	13
ΡO	5305-725-4105	MS51968-20 (96906) SCREW, CAP, HEXAGON HEAD: HEAT TREAT, FUEL TANK MTG, 5/8-18 THD SIZE, 2 IN, LG	EA	4	*	*	*	*	*	*	*	*	D2	14
X20		MS90726-164 (96906) STRAP: FUEL TANK MTG	EA	2									D2	15
ΡO	2910-425-5899	104766 (20988) TANK, FUEL	EA	1	*	*	*	*	*	*	*	*	D2	16
		104765 (20988)												
		GROUP 03 - POWER TAKE-OFF CLUTCH ASSEMBL	Y											
ΡF	2990-425-5902	POWER TAKE-OFF CLUTCH: SPEC 33772 C106SP6 (61208)	EA	1	*	*	*	*	*	*	*	*	D3	
ΡO	3030-758-9704	BELT, DRIVE 4-3V850 (11288)	EA	1	*	*	*	*	*	*	*	*	D3	1
ΡF	5305-269-3213	SCREW, LOCK, HEXAGON HEAD: HEAT TREAT, CLUTCH MTG, 3/8-16 THD SIZE, 1 1/4 IN. LG	EA	6	*	*	*	*	*	*	*	*	D3	2
ΡF	5310-595-7237	MS90725 (96906) WASHER, LOCK: INTERNAL TOOTH, POWER TAKEOFF MTG, 3/8 IN. SCREW SIZE	EA	6	*	*	*	*	*	*	*	*	D3	3
ΡF	5365-197-7885	MS33533-42 (96906) BUSHING, PULLEY: SHAFT, 1 7/16 IN. BORE	EA	1	*	*	*	*	*	*	*	*	D3	4
ΡF	3020-425-5829	SH-17-16 (24161) PULLEY, DRIVE	EA	1	*	*	*		*	*	*	*	D3	5
ΡF	5315-432-4337	-3V36QD (11288) KEY: DRIVE PULLEY, 3/8 IN. SQUARE, 1 1/2 IN. LG	EA	1	*	*	*	*	*	*	*	*	D3	6
ΡO	5305-475-0631	010021 (20988) SREW, CAP, HEXAGON HEAD: HEAT TREAT, CLUTCH HAND LEVER, 1/2-13 THD SIZE	EA	1	*	*	*	*	*	*	*	*	D3	7
ΡO	5310-194-1483	M2004R (61208) WASHER, LOCK: INTERNAL TOOTH, HAND LEVER MTG, 1/2 IN. SCREW SIZE	EA	1	*	*	*	*	*	*	*	*	D3	8
X20	3040-653 9200	MS35333-44 (96906) LEVER, HAND	EA	1									D3	9
ΡO	5305-236-3598	3799 (61208) SCREW, MACHINE: COVER PLATE MTG, ¼-20 THD SIZE, 1/2 IN. LG	EA	2	*	*	*	*	*	*	*	*	D3	10
X20		M2023F (61208) PLATE, INSTRUCTION COVER	EA	1									D3	11
ΡO	5330-414-9267	1965A (61208) GASKET: INSTRUCTION COVER PLATE	EA	1	*	*	*	*	*	*	*	*	D3	12
ΡF	5310-189-8432		EA	1	*	*	*	*	*	*	*	*	D3	13
ΡF	5310-423-8022	2727 (61208) WASHER, LOCK: HUB NUT	EA	1	*	*	*	*	*	*	*	*	D3	14
ΡF	5315-236-8345	A1587 (61208) PIN, COTTER: CLUTCH, 1/32 IN. DIA, 1/2 IN. LG	EA	12	*	*	*	*	*	*	*	*	D3	15
		MS24665-5 (96906)												

(1)	(2)	(3)		(4)	(5)		(6) DAY DS M ALLOWAN		30-D/	(7) AY GS M LOWAN		(8)	(9)	(10) ILLUSTR	) ATION
		DESCRIPTION			QTY	(a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR	FEDERAL STOCK		USABLE ON	UNIT OF	INC IN	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP	ALW PER 100	FIG	ITEM
CODE	NUMBER	REF. NUMBER & MFR CODE	CODE	MEAS	UNIT							CNTGCY	EQUIP	NO.	NO.
ΡF	2520-690-8983	PIN, HEADED: LEVER LINK		EA	4	*	*	*	*	*	*	*	*	D3	16
X2F	3010-423-8028	B1537B (61208) HUB AND BACK PLATE		EA	1									D3	17
X2F	2520-366-7191	A3024 (61208) YOKE, ADJUSTING		EA	1									D3	18
X2F	3010-362-2951	3206 (61208) PLATE, FLOATING		EA	1									D3	19
X1		3951 (61208) PLATE, DRIVING		EA	1									D3	20
X2F	3895-200-6367	A3507 (61208) SPRING, RELEASE		EA	6									D3	21
X2F	5315-244-3906	A2286 (61208) PIN, PLATE		EA	1									D3	22
ΡF	5315-069-7465	110D3 (61208) PIN, HEADED: FINGER		EA	4	*	*	*	*	*	*	*	*	D3	23
X2F	3010-423-8040	B1537A (61208) LEVER, FINGER		EA	4									D3	24
X2F	5315-362-2948	2411 (61208) PIN, LOCK, ADJUSTING		А	1									D3	25
X2F	3010-362-2954	2042 (61208) SPRING: ADJUSTING LOCK PIN		EA	1									D3	26
ΡF	5315-281-7549	1382 (61208) KEY, CLUTCH: ¼ IN. SQUARE,		EA	1	*	*	*	*	*	*	*	*	D3	27
		1 7/8 IN. LG 178-3769 (25681)					*	*	*	*	*				
ΡO	4730-050-4208	FITTING, LUBRICATION: CLUTCH, 1/8 IN. NPTF		EA	2	*	*	*	*	*	*	*	*	D3	28
ΡO	5310-655-7423	MS15003-1 (96906) NUT, JAM, HEXAGON, CLUTCH,		EA	1	*	*	*	*	*	*	*	*	D3	29
		5/8-18 THD SIZE MS027AN (61208)													
ΡO	5310-543-4385	WASHER, LOCK: INTERNAL TOOTH, CLUTCH, 5/8 IN. SCREW SIZE		EA	1	*	*	*	*	*	*	*	*	D3	30
ΡF		MS35333-46 (96906) FITTING, HOSE: CLUTCH		EA	1	*	*	*	*	*	*	*	*	D3	31
ΡF	3820-802-2038	100-00157 (79470) HOSE, FLEXIBLE		E.A	1	*	*	*	*	*	*	*	*	D3	32
ΡF	4730-277-8273	M1292A (61208)* FITTING, HOSE: CLUTCH		EA	1	*	*	*	*	*	*	*		D3	33
X2F	3010-366-7185	400X4 (79470) SLEEVE, SLIDING		EA	1	*	*	*	*	*	*	*	*	D3	34
ΡF	5315 069-4766	2969 (61208) PIN, HEADED: LEVER LINK		EA	4	*	*	*	*	*	*	*	*	D3	35
X2F	3910-423-8042	B1537C (61208) LINK, LEVER		EA	8	*	*	*	*	*	*	*	*	D3	36
X1		2968 (61208) BEARING, RELEASE		EA	1	*	*	*	*	*	*	*		D3	37
ΡF	5305-269-3217	X117C8 (61208) SCREW, CAP, HEXAGON HEAD: HEAT		EA	2	*	*	*	*	*	*	*		D3	38
		TREAT, OPERATING YOKE, 3/8-16 THD SIZE,													
		1 1/2 IN. LG MS90725 (96906)													
ΡF		WASHER, LOCK: INTERNAL TOOTH, HEAVY, OPERATING YOKE, 3/8 IN.		EA	2	*	*	*	*	*	*	*	*	D3	39
		SCREW SIZE 923501 (20988)													
							1								
							1								
							1								
									ļ						
					D	-13									

(1)	(2)	(3)	(4)	(5)		(6) DAY DS M ALLOWAN			(7) AY GS M LOWAN		(8)	(9)	(10) ILLUSTRA	ATION
		DESCRIPTION		QTY	(a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR	FEDERAL STOCK	USABLE	UNIT OF	INC	1-20	21-50	51-100		21-50	51-100	100 EQUIP	ALW PER 100	FIG	ITEM
CODE	NUMBER	REF. NUMBER & MFR CODE CODE	MEAS	UNIT		21.00	01.100				CNTGCY	EQUIP	NO.	NO.
ΡF	5315-243-1159	KEY, WOODRUFF OPERATING SHAFT, 1/4 IN.	EA	2	*	*	*	*	*	*	*	*	D3	40
X2F	3010-423-8041	1B8733 (11083) SHAFT, OPERATING	EA	1									D3	41
X2F	3010-128-2701	2757 (61208) YOKE, OPERATING	EA	1									D3	42
X2F	5340-282-4986	1037 (61208) RING, SNAP, EXTERNAL: CLUTCH SHAFT	EA	1									D3	43
X1		A1002 (61208) SHAFT, CLUTCH	EA										D3	44
ΡO	4730-048-1788	A3026 (61208) FITTING, LUBRICATION: CLUTCH, 1/4 IN. NPTF	EA	1	*	*	*	*	*	*	*	*	D3	45
ΡF	5305-475-0630	6026 (03990) SCREW, CAP, HEXAGON HEAD: HEAT TREAT, CLUTCH BEARING RETAINER, 5/16-18 THD SIZE, 5/8 IN. LG	EA	4	*	*	*	*	*	*	*	*	D3	46
ΡF	5310-167-0721	M2001E (61208) WASHER, LOCK, INTERNAL TOOTH, RING, ADAPTER, CLUTCH BEARING RETAINER, 5/16 IN. SCREW SIZE MS35333-41 (96906)	EA	14	*	*	*	*	*	*	*	*	D3	47
X2F	3040-447-8831	RETAINER, BEARING	EA	1									D3	48
X1		A1181 (61208) BEARING, CLUTCH OUTER	EA	1									D3	49
ΡO	4730-050-4203	308MFCODETLO (38443) FITTING, LUBRICATION: CLUTCH, 1/4-28 THD SIZE	EA	2	*	*	*	*	*	*	*	*	D3	50
X1		6009 (03990) HOUSING: NO. 6 SAE	EA	1									D3	51
PF	5306-225-8502	8539 (61208) SCREW, LOCK, HEXAGON HEAD: HEAT	EA	6	*	*	*	*	*	*	*	*	D3	52
		TREAT, ADAPTR AND RING MTG, 5/16-18 THD SIZE, 1 1/2 IN. LG MS90725-38 (96906)												
X2F		RING, DRIVING 6939 (61208)	EA	1									D3	53
MF		WIRE, LOCK: SCREW RETAINING, ADAPTER QQW423 (81348) MANUFACTURE FROM:	SL	1									D3	54
P F P F	9502-242-7527 5306-853-2228	WIRE, STEEL, 18 GAGE X 18 IN. LG BOLT, MACHINE, HEXAGON HEAD: HEAT TREAT, ADAPTER MTG, 5/16-18 THD SIZE, 1 1/4 IN. LG	EA	4	*	*	*	*	*	*	*	*	D3	55
X2F		MS51095-335 (96906) ADAPTER: FLYWHEEL	EA	1									D3	56
X1		104794 (20988) BEARING, CLUTCH, INNER	EA	1									D3	57
		205SFCODETL0 (38443) GROUP 04 - CONTROL PANEL												
ΡO	5305-984-4988	SCREW, MACHINE: CONTROL PANEL BOX, NO. 6-32 THD SIZE, 3/8 IN. LG	EA	10	*	*	*	*	*	*	*	*	D4	1
ΡO	5975-280-6079	MS35206-228 (96906) NUT, LOCK, HEXAGON: CONTROL PANEL BOX MS39081-10 (96906)	EA	1	*	*	*	*	*	*	*	*	D4	2

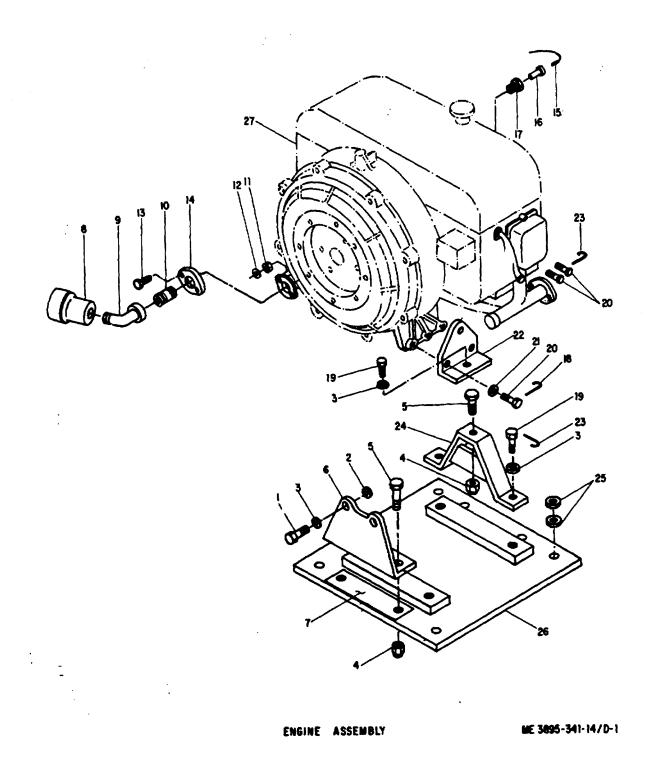
(1)	(2)	(3)	(4)	(5)		(6) DAY DS M			(7) AY GS M LOWAN		(8)	(9)	(10) ILLUSTRA	ATION
		DESCRIPTION		QTY	, (a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR	FEDERAL STOCK	USABLE ON	UNIT OF	INC IN	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP	ALW PER 100	FIG	ITEM
CODE	NUMBER	REF. NUMBER & MFR CODE CODE	MEAS	UNIT							CNTGCY	EQUIP	NO.	NO.
ΡO	5310-432-4466	WASHER, RUBBER: ELECTRICAL INLET PLUB	EA	1	*	*	*	*	*	*	*	*	D4	3
ΡO	5310-432-4467	105009 (20988) WASHER, FLAT: ELECTRICAL INLET PLUG 300490 (20988)	EA	1	*	*	*	*	*	*	*	*	D4	4
ΡO	5935-431-4889	PLUG, WIRE ASSEMBLY	EA	1	*	*	*	*	*	*	*	*	D4	5
ΡO	5310-208-1919	105011 (20988) NUT, LOCK, HEXAGON: BOX SUPPORT ANGLE MTG; 1/4-20 THD SIZE	EA	4	*	*	*	*	*	*	*	*	D4	6
ΡO	5305-008-0502	29NE-040 (72962) SCREW, CAP, HEXAGON HEAD: BOX SUPPORT ANGLE MTG, %-20 THD SIZE, 3/4 IN. LG	EA	4	*	*	*	*	*	*	*	*	D4	7
X20		MS90725- (96906) BRACKET, PANEL	EA	1									D4	8
ΡO		104965 (20988) DAMPENER PANEL	EA	1	*	*	*	*	*	*	*	*	D4	9
X20		105007 (20988) BOX, CONTROL PANEL	EA	1									DC	10
		104968 (20988)			*	*	*	*	*	*			-	
ΡO	6150-405-2211	WIRE ASSEMBLY: START SWITCH TO HOURMETER	EA	1	*	*	*	*	*	*	*	*	D4	11
ΡO	6150-428-7518	105015 (20988) WIRE ASSEMBLY: HOURMETER TO OIL PRESSURE GAGE	EA	1	*	*	*	*	*	*	*	*	D4	12
ΡO	6150-405-2205	105017 (20988) WIRE ASSEMBLY: RUN-STOP SWITCH TO START SWITCH	EA	1	*	*	*	*	*	*	*	*	D4	13
ΡO		105012 (20988) WIRE ASSEMBLY: RUN-STOP SWITCH TO OIL PRESSRE	EA	1	*	*	*	*	*	*	*	*	D4	14
ΡO		105013 (20988) WIRE ASSEMBLY: RUN-STOP SWITCH TO AMMETER 105016 (20988)	EA	1	*	*	*	*	*	*	*	*	D4	15
ΡΟ	6150-405-4825	WIRE ASSEMBLY: RUN-STOP SWITCH TO OIL PRESSURE GAGE 105014 (20988)	EA	1	*	*	*	*	*	*	*	*	D4	16
ΡO	5305-889-3000	SCREW, MACHINE: CONTROL PANEL COVER MTG, NO. 6-32 THD SIZE, 1/2 IN. LG MS35206 (96906)	EA	6	*	*	*	*	*	*	*	*	D4	17
ΡO	6645-089-8842	METER, HOUR	EA	*	*	*	*	*	*	*	*	*	D4	18
ΡO	5310-579-0079	MODEL 771 (26992) WASHER, LOCK: INTERNAL TOOTH, CONTROL PANEL COVER MTG, NO. 6 THD SIZE NO. 6 THD SIZE (2000)	EA	6	*	*	*	*	*	*	*	*	D4	19
ΡO	2815-786 1564	MS35333-37 (96906) DAMPENER: HOURMETER	EA	1	*	*	*	*	*	*	*	*	D4	20
РO	6620-056-9584	M3888 (57733) GAGE, OIL PRESSURE	EA	1	*	*	*	*	*	*	*	*	D4	22
РО	6625-272-9928	505T (57733) AMMETER	EA	1	*	*	*	*	*	*	*	*	D4	22
PO		359L (57733)		*	*	*	*	*	*	*	*	*	D4	
PO	5930-655-1582 5930-655-1521	SWITCH, TOGGLE: ENGINE MS35059 (96906) SWITCH, TOGGLE: OIL PRESSURE	EA EA	1	*	*	*	*	*	*	*	*	D4 D4	23 24
		MS35058 (96906)												

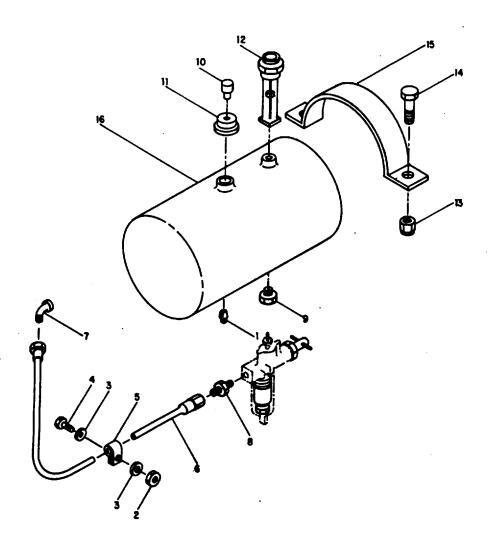
(1)	(2)	(3)		(4)	(5)	30-	(6) DAY DS M ALLOWAN		30-D/	(7) AY GS M LOWANG		(8)	(9)	(10) ILLUSTRA	
		DESCRIPTION			QTY	(a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR CODE	FEDERAL STOCK NUMBER	REF. NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGCY	ALW PER 100 EQUIP	FIG NO.	ITEM NO.
	TIONDER														
ΡO	6930-655-1522	SWITCH, TOGGLE: ENGINE START		EA	1	*	*	*	*	*	*	*	*	D4	25
X20		MS35058-30 (96906) PLATE, INDICATING		EA	1									D4	26
X20		104972 (20988) COVER, CONTROL PANEL 104967 (20988)		EA	1									D4	27
		GROUP 05- BATTERY AND BATTERY BOX													
ΡO	5310-655-7145	NUT, LOCK, HEXAGON: BATTERY TRAY MTG 5/16-18 THD SIZE 42NE058 (72962)		EA	12	*	*	*	*	*	*	*	*	D5	1
ΡO	5310-081-4219	WASHER, FLAT: BATTERY HOLD-DOWN, GROUND CABLE AND CLAMP MTG, 5/16 IN SCREW SIZE		EA	4	*	*	*	*	*	*	*	*	D5	2
ΡO	5306-753-4322	MS27183-12 (96906) SCREW, CAP, HEXAGON HEAD: CABLE CLAMP MTG, 5/16-18 THD SIZE,		EA	2	*	*	*	*	*	*	*	*	D5	3
ΡO		1 IN. LG MS51095 (96906) CABLE, GROUND: BATTERY		EA	1	*	*	*	*	×	×	*	*	D5	4
ΡO	6150-257-1472	105004 (20988) CABLE, JUMPER: BATTERY		EA	1	*	*	*	*	*	*	*	*	D5	5
ΡO	55340-432-4021	105005 (20988) CLAMP, CABLE: BATTERY		EA	3	*	*	*	*	*	*	*	*	D5	6
РO	5325-432-4739	TA11S7 (84971) GROMMET: BATTERY BOX		EA	1	*	*	*	*	*	*	*	*	D5	7
ΡO		11022 (98388) CABLE, LEAD: BATTERY		EA	1	*	*	*	*	*	*	*	*	D5	8
X20		105006 (20988) BOLT, HOLD-DOWN BATTERY		EA	2									D5	9
		101643 (20988) HOLD-DOWN, BATTERY		EA	1									D5	10
ΡO	6140-057-2553	100643 (20988) BATTERY: 12V		EA	2	*	*	*	*	*	*	*	*	D5	11
ΡO	5310-984-3806	2HN11 (88169) NUT, LOCK, HESAGON: BATTERY TRAY WTG, 5/16-18 THD SIZE MS51922-9 (96906)		EA	8	*	*	*	*	*	*	*	*	D5	12
ΡO	5306-450-0372	MOUNTING, FLEXIBLE BOLT: BATTERY TRAY MTG J46243 (76005)		EA	8	*	*	*	*	*	*	*	*	D5	13
X20		TRAY, BATTERY 104769 (20988)		EA	1									D5	14
ΡO	5310-208-1918	NUT, LOCK, HEXAGON: HASP MTG, NO. 10-24 THD SIZE AN365-1024A (88044)		EA	4	*	*	*	*	*	*	*	*	05	15
ΡO	5305-984-6210	SCREW, MACHINE: HASP MTG, NO. 10-24 THD SIZE, 1/2 IN. LG MS35206-263 (96906)		EA	*	*	*	*	*	*	*	*	*	D5	16
X20	tlP,	HASP: BATTERY BOX 2033 (78252)		EA	2									D5	17
		GROUP 06 - ROLL AID SHAFT ASSEMBLY													
х		ROLL AND SHAFT ASSEMBLY 104536 (20988)		EA	1									D6	
ΡF	3895-425-5895	FLEXIBLE MOUNT ASSEMBLY, W/BUSHING 104759 (20988)	i	EA	2	*	*	*	*	*	*	*	*	D6	1
		<u> </u>												<u> </u>	1

DESCRIPTION         UNDER	(1)	(2)	(3)	(4)	(5)		(6) DAY DS N			(7) AY GS M		(8)	(9)	(10) ILLUSTR	) ATION
Object         FEEDERAL PERMANE         DESCRIPTION         UNICATION			DESCRIPTION		QTY		1					ALW PER	MAINT	(a)	(b)
Description         Description         EA         A         C         C         C         C         C         D <thd< th="">         D         <thd< th="">         D</thd<></thd<>		STOCK	ON	OF	INC IN							EQUIP	100		ITEM
P         Division La         Division La <thdivision la<="" th=""> <thdivis< td=""><td></td><td>NOMBER</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdivis<></thdivision>		NOMBER			-										
PF     \$300-939-80     SCREED, DFURSON     EA     4     -	ΡF	5310-680-7524	MOUNT TO FRAME, 3/4-10 THD	EA	8	*	*	*	*	*	×	*	*	D6	2
PF     S035-903-783     SUB372-47 (1980) (1980) - 40 (1980)     EA     4     -     -     -     -     -     -     -     -     DB     4       PF     S035-903-783     SORE CONC. IN CONC. IN CONT. DEALE, 2001, 10 SUB10, 140, 140, 140, 140, 140, 140, 140, 1	ΡF	5305-939-9204	49NE120 (72962) SCREW, CAP HEXAGON HEAD: FLEXIBLE MOUNT TO FRAME, 3/4-10	EA	4	*	*	*	*	*	*	*	×	D6	3
PF       S26-424 2431       SHIFT FLORE MOUNT OF FRAME. 1018 IN THE SHIP       EA       2       ' <td>ΡF</td> <td>5305-903-7298</td> <td>MS90725-187 (96906) SCREW, CAP, HEXAGON HEAD: FLEXIBLE MOUNT TO FRAME,</td> <td>EA</td> <td>4</td> <td>*</td> <td>*</td> <td>×</td> <td>*</td> <td>*</td> <td>×</td> <td>*</td> <td>*</td> <td>D6</td> <td>4</td>	ΡF	5305-903-7298	MS90725-187 (96906) SCREW, CAP, HEXAGON HEAD: FLEXIBLE MOUNT TO FRAME,	EA	4	*	*	×	*	*	×	*	*	D6	4
P F     S36-42-449     SMM< FLEXBLE MOUNT TO FRAME, 110 (N, N)     EA     2     1 <t< td=""><td>ΡF</td><td>5365-432-8231</td><td>SHIM: FLEXIBLE MOUNT TO FRAME, 1/8 IN. THK</td><td>EA</td><td>2</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>×</td><td>*</td><td>*</td><td>D6</td><td>5</td></t<>	ΡF	5365-432-8231	SHIM: FLEXIBLE MOUNT TO FRAME, 1/8 IN. THK	EA	2	*	*	*	*	*	×	*	*	D6	5
PF       S368-619-0803       SMM FLEXIBLE MOUNT TO FRAME, ZG GRACE TWO DESCRIPTION       EA       1       -       -       -       -       -       -       -       -       D6       6         PF       S305-724-6803       SOERW, SET: ORIVER PULLEY BUSHING, LOCKING, SF16 TH'D SS0606       EA       1       -       -       -       -       -       D6       6         PF       S305-425-4303       PULLEY ON FORMS       EA       1       -       -       -       -       -       D6       8         PF       S305-431-162       BUSHING, CILEY       EA       1       -       -       -       -       -       D6       8         PF       S305-431-1523       SOERW, CAP, JEXAGONE       EA       1       -       -       -       -       -       D6       8         PF       S305-431-1523       SOERW, CAP, JEXAGONE       EA       2       -       -       -       -       D6       10         BUSHING ASEMONT       EA       2       -       -       -       -       -       -       0       D6       10         BUSHING ASEMONT       EA       2       -       -       -       -       -<	ΡF	5365-432-4489	SHIM: FLEXIBLE MOUNT TO FRAME, 1/16 IN. TK	EA	2	*	*	*	*	*	*	*	*	D6	5
PF       505-724-886       SOREW, SET: DRIVEN PULLEY BUSHING, DIAL       EA       1       -       -       -       -       -       -       DB       6         PF       3120-432-8116       BUSHING, DIAL       EA       1       -       -       -       -       -       -       DB       8         PF       3025-425-680       BUSHING, TO LEXEL       EA       1       -       -       -       -       -       -       DB       8         PF       3025-425-680       PLLLEYROD(11280)       EA       1       -       -       -       -       -       DB       8         PF       3025-425-680       PLLEYROD(11280)       EA       1       -       -       -       -       -       DB       9         BUSHING: TO LEXELE MOUNT       EA       2       -       -       -       -       -       -       DB       DB       0         PF       BUSHING: TEXELE MOUNT       EA       2       -       -       -       -       -       DB       1       1       Image: Some Some Some Some Some Some Some Some	ΡF	5365-619-8063	SHIM: FLEXIBLE MOUNT TO FRAME, 22 GAGE THK	EA	2	*	*	*	*	*	*	*	*	D6	5
PF       3120-432-8176       BUSHING, PULLEY       EA       1       * <t< td=""><td>ΡF</td><td>5305-724-5896</td><td>SCREW, SET: DRIVEN PULLEY BUSHING, LOCKING, 5/16-18 THD SIZE, 5/16 IN. LG</td><td>EA</td><td>1</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>D6</td><td>6</td></t<>	ΡF	5305-724-5896	SCREW, SET: DRIVEN PULLEY BUSHING, LOCKING, 5/16-18 THD SIZE, 5/16 IN. LG	EA	1	*	*	*	*	*	*	*	*	D6	6
PF     3025-425-830     PULLEY, DRIVEN     EA     1     *	ΡF	3120-432-8116	BUSHING, PULLEY	EA	1	*	*	*	*	*	*	*	*	D6	7
PF       5305-451-1525       SOREW. CAP, HEXAGON HEAD: BUISHING TO FLEXIBLE MOUNT: SAME TO TO FLEXIBLE MOUNT: SAME TO TO FLEXIBLE MOUNT: SAME TO TO FLEXIBLE MOUNT: BUISHING STEP, TISH AN LOG SUBJENCE TEXTED AND TO THE SAME TO THE SAM	ΡF	3025-425-5830	PULLEY, DRIVEN	EA	1	*	*	*	*	*	*	*	*	D6	8
PF       5310-616-798       WASHER, LÖCK, INTERNAL TOOTH, SCREW SIZE       EA       2       1	ΡF	5305-451-1525	SCREW, CAP, HEXAGON HEAD: BUSHING TO FLEXIBLE MOUNT; 3/8.16 THD SIZE, 13/16 IN. LG	EA	2	*	*	*	*	*	*	*	*	D6	9
PF     BUSHNO: FLEXIBLE MOUNT     EA     2     *    <	PF	5310-616-7998	WASHER, LOCK: INTERNAL TOOTH, BUSHING ASSEMBLY, 3/8 IN. SCREW SIZE	EA	2	*	*	*	*	*	*	*	*	D6	10
P.O.     4730-172-0034     FITTING, LUBRICATION: FLEXBIBLE 6007 (0390)     EA     2     *     *     *     *     *     *     *     *     *     *     D6     12       P.F     5315-432-438     KEY: DRIVEN PULLEY, 38 IN. SQUARE, 2 NI, LG     DEG     13     *     *     *     *     *     *     *     *     *     *     6     13       P.F     5315-432-436     KEY: DRIVEN PULLEY, 38 IN. SQUARE, 2 NI, LG     EA     12     *     *     *     *     *     *     *     *     *     6     13       SQUARE, 1MR, STUB, AXEES 10535 (20088)     EA     12     * <t< td=""><td>ΡF</td><td></td><td>BUSHING: FLEXIBLE MOUNT</td><td>EA</td><td>2</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>D6</td><td>11</td></t<>	ΡF		BUSHING: FLEXIBLE MOUNT	EA	2	*	*	*	*	*	*	*	*	D6	11
PF       5315-432-4336       KEY. DRIVEN PULLEY, 38 IN. GOUARE, 21N. GOUARE, 22N. GOUA	ΡO	4730-172-0034	FITTING, LUBRICATION: FLEXIBLE MOUNT BUSHING, 90 DEG X 1/8 IN. NPTF	EA	2	*	*	*	*	*	*	*	*	D6	12
PF     3120-472-8474     VVASHER, THRUST: STUB AXLES     EA     2     ·	ΡF	5315-432-4336	KEY: DRIVEN PULLEY, 3/8 IN. SQUARE, 2 IN, LG	EA	1	*	*	*	*	*	*	*	*	6	13
HOUSING TO ROLL, 598-18 THO SIZE MSS 1922-53 (96006)       FA       1       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       DE       16       16       16       17         PF       2530-425-5828       AXLE, STUB, OPONE NDD 101479 (2088)       EA       1       ·       ·       ·       ·       ·       ·       ·       ·       DE       16       17         PF       2530-425-5827       AXLE, STUB, CLOSEDE END 101478 (20888)       EA       1       ·       ·       ·       ·       ·       ·       DE       18         XF       ROLL       EA       1       ·       ·       ·       ·       ·       ·       ·       DE       19         XF       ROLL       EA       1       ·       ·       ·       ·       I       DE       19         XF       HOUSING, EARING       EA       2       ·       ·       I       I       I       I       DE       19         XF       HOUSING, EARING       EA       2       ·       I       I       I       I       I       I       I       I       I       I       I       I		3120-472-8474	WASHER, THRUST: STUB AXLES	EA	2	*	*					*	*	6	14
PF       2530-425-5828       AXLE, STUB, OPEN END 101479 (20988)       EA       1       ·       ·       ·       ·       ·       ·       ·       ·       ·       D6       16         PF       2530-432-1661       AXLE, STUD, OLOSED END 101478 (20988)       EA       1       ·       ·       ·       ·       ·       ·       ·       D6       17         PF       3040-425-5897       SHAFT, VIBRATOR 104530 (20988)       EA       1       ·       ·       ·       ·       ·       ·       D6       18         XF       ROLL 1004530 (20988)       EA       1       ·       ·       ·       ·       ·       I       ·       ·       D6       19         XF       ROLL 1004530 (20988)       EA       2       ·       ·       I       I       I       ·       I       D6       19         XF       ROLL 100481 (20988)       EA       2       ·       I	ΡF	5310-225-6408	HOUSING TO ROLL, 5/8-18 THD SIZE	EA	12	*	*	*	*	*	*	*	*	D6	15
P F       2530-432-1661       AXLE, STUD, CLOSED END 101478 (20988)       EA       1       •       •       •       •       •       D6       17         P F       3040-425-5897       SHAFT, VIBRATOR 104530 (20988)       EA       1       •       •       •       •       •       D6       18         XF       ROLL 104530 (20988)       EA       1       •       •       •       I       I       •       •       I       I       D6       18         XF       ROLL 104530 (20988)       EA       1       •       •       I       I       I       I       I       I       I       IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ΡF	2530-425-5828-	AXLE, STUB, OPEN END	EA	1	*	*	*	*	*	*	*	*	D6	16
P F       3040-425-5897- 104530 (20988) ROLL       SHAFT, VIBRATOR 104530 (20988) ROLL       EA       1       .	ΡF	2530-432-1661	AXLE, STUD, CLOSED END	EA	1	*	*	*	*	*	*	*	*	D6	17
XF     ROLL     EA     1       XF     HOUSING, BEARING     EA     2       101481 (20988)     EA     2	ΡF	3040-425-5897-	SHAFT, VIBRATOR	EA	1	*	*	*	*	*	*	*	*	D6	18
XF HOUSING, BEARING 101481 (20988) LINE ALL CONSTRAINES LINE ALL CONSTRA	XF		ROLL	EA	1									D6	19
	XF		HOUSING, BEARING	EA	2									D6	20
► · · · · · · · · · · · · · · · · · · ·															
		-		•	ח	-17	•		•		•			•	·

(1)	(2)	(3)	(4)	(5)	30-	(6) DAY DS N	IAINT	30-D/	(7) AY GS M	AINT	(8)	(9)	(10) ILLUSTRA	TION
		DESCRIPTION		QTY	(a)			(a)	LOWAN(	CE (c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
0.40	FEDERAL	USABLE	UNIT	INC	(a) 1-20	(b) 21-50	(c) 51-100		(D) 21-50	(C) 51-100	100 EQUIP	ALW PER 100	FIG	(b) ITEM
SMR CODE	STOCK NUMBER	REF. NUMBER & MFR CODE CODE	MEAS	IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	CNTGCY	EQUIP	NO.	NO.
ΡF	5365-472-5295	SHIM: BEARING HOUSING TO ROLL, 26 GAGE THK	EA	1	*	*	*	*	*	*	*	*	D6	21
ΡF	5365-469-3717	101625 (20988) SHIM: BEARING HOUSING TO ROLL, 22 GAGE THK	EA	1	*	*	*	*	*	*	*	*	D6	21
ΡF		101624 (20988) BEARING: VIBRATOR SHAFT	EA	2	*	*	*	*	*	*	*	*	D6	22
ΡF	5307-431-8986	BS215443 (36422) STUD: BEARING HOUSING TO ROLL, 5/8-18 THD SIZE, 3/4 IN. LG	EA	12	*	*	*	*	*	*	*	*	D6	23
ΡO	4730-050-4208	101532 (20988) FITTING: LUBRICATION, VIBRATOR SHAFT BEARING, 1/8 IN. NPTF MS15003-1 (96906)	EA	2	*	*	*	*	*	*	*	*	D6	24
		GROUP 07 - FRAME AND TOWING ATTACHMENTS												
ΡO	5310-087-4652	NUT, LOCK, HEXAGON: GUARD MTG, 3/8-16 THD SIZE MS51922-17 (96906)	EA	5	*	*	*	*	*	*	*	*	D7	1
ΡO	5305-269-3211	SCREW, CAP, HEXAGON HEAD: GUARD MTG, 3/8-16 THD SIZE, 1 IN. LG MS90725-60 (96906)	EA	5	*	*	*	*	*	*	*	*	D7	2
X20		GUARD, BELT 104773 (20988)	EA	1									D7	3
ΡO	5305-253-5614	SCRW, DRIVE: PLATE MTG, NO. 4 X 3/16 IN. LG, TYPE U MS21318-20 (96906)	EA	12	*	*	*	*	*	*	*	*	D7	4
X20		PLATE, INSTRUCTION 105025 (20988)	EA	1									D7	5
ΡO	5305-450-0385	SCREW, LOCK, HEXAGON HEAD: COVER PLATE MTG, 3/8-16 THD SIZE, 3/4 IN. LG	EA	4	*	*	*	*	*	*	*	*	D7	6
ΡO	5310-595-7237	967016 (20988) WASHER, LOCK: INTERNAL TOOTH, COVER PLATE MTG, 3/8 IN. SCREW SIZE	EA	4	*	*	*	*	*	*	*	*	D7	7
X20		M535333-42 (96906) PLATE, COVER: DRIVEN PULLEY	EA	1									D7	8
ΡO	5310-732-0558	104856 (20988) NUT, LOCK, HEXAGON: SCRAPER MTG, 3/8-16 THD SIZE	EA	8	*	*	*	*	*	*	*	*	D7	9
ΡO	5310-201962	MS51967-8 (96906) WASHER, FLAT: SCRAPER MTG, 3/8 IN. SCREW SIZE 61-0542-1 (42280)	EA	8	*	*	*	*	*	*	*	*	D7	10
ΡO	5305-269-3214	SCREW, CAP, HEXAGON HEAD: SCRAPER MTG, 3/8-16 THD SIZE, 1 1/2 IN. LG MS90725-64 (96906)	EA	8	*	*	*	*	*	*	*	*	D7	11
ΡO	3895-425-5901	SCRAPER, ROLL 101465 (20988)	EA	1	*	*	*	*	*	*	*	*	D7	12
ΡO	5310-980-7524	NUT LOCK, HEXAGON: TONGUE MTG, 3/-10 THD SIZE 49NE120 (72962)	EA	6	*	*	*	*	*	*	*	*	D7	13
ΡO	5310-763-8921	NUT, HEXAGON: TONGUE MTG, %-10 THD SIZE MS51967-23 (96906)	EA	4	*	*	*	*	*.	*	*	*	D7	14
ΡΟ	5310-838-1702	NUT, JAM, HEXAGON: TONGUE MTG, 3/4-10 THD SIZE MS35691 (96906)	EA	2	*	*	*	*	*	*	*	*	D7	15
	I			I		-		I	1	I				I

(1)	(2)	(3)		(4)	(5)	(6) 30-DAY DS MAINT ALLOWANCE		(7) 30-DAY GS MAINT ALLOWANCE			(8)	(9)	(10) ILLUSTR/	) ATION	
		DESCRIPTION			QTY	(a)	(b)	(c)	(a)	(b)	(c)	1-YR ALW PER	DEPOT MAINT	(a)	(b)
SMR CODE	FEDERAL STOCK NUMBER	U REF. NUMBER & MFR CODE	ISABLE ON CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGCY	ALW PER 100 EQUIP	FIG NO.	ITEM NO.
X20		WASHER, BEVELED: TONGUE MTG, % IN. SCREW SIZE		EA	2									D7	16
P 0	5305-716-6318	923618 (20988) SCREW, CAP, HEXAGON, HEAD: HEAT TREAT, TONGUE MTG, %-10 THD SIZE, 2 % IN. LG		EA	6	*	*	*	*	*	*	*	*	D7	17
X20		963560 (20988) TONGUE, TOWING		EA	1									D7	18
P 0	5315-187-9600	104751 (20988) PIN COTTER: TOWING EYE, 3/8 IN. DIA, 4 IN. LG		EA	1	*	*	*	*	*	*	*	*	D7	19
P 0	5310-450-0317	MS24665 (96906) NUT, SLOTTED, HEXAGON: TOWING EYE, 1 ¾ IN. THD SIZE 968433 (20988)		EA	1	*	*	*	*	*	*	*	*	D7	20
P 0	5310-432-8206	WASHER, FLAT: TOWING EYE, 1 ¾ IN. SCREW SIZE 923180 (20988)		EA	2	*	*	*	*	*	*	*	*	D7	21
X20		EYE, TOWING 104750 (20988)		EA	1									D7	22
X20		PIN, STAND 925128 (20988)		EA	2									D7	23
X20		STAND 104843 (20988)		EA	2									D7	2X
X20		PLATE, IDENTIFÌCATIÓN 105023 (20988)		EA	1									D7	25
X20		PLATE, TRANSPORTATION 105024 (20988)		EA	1									D7	26
X2F		FRAME, ROLLER 104764 (20988)		EA	1									D7	27
							1								
L		1									L			I	1

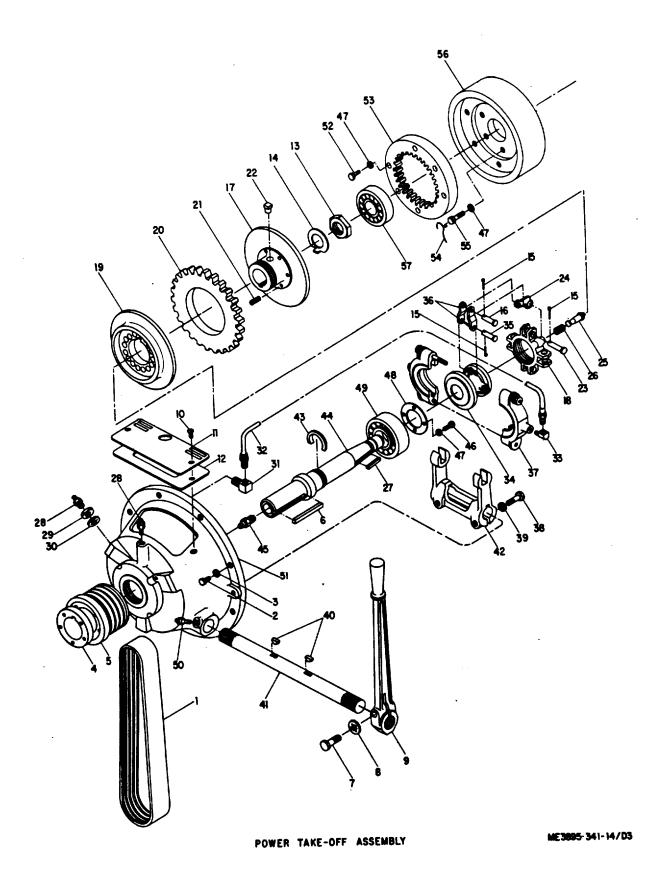


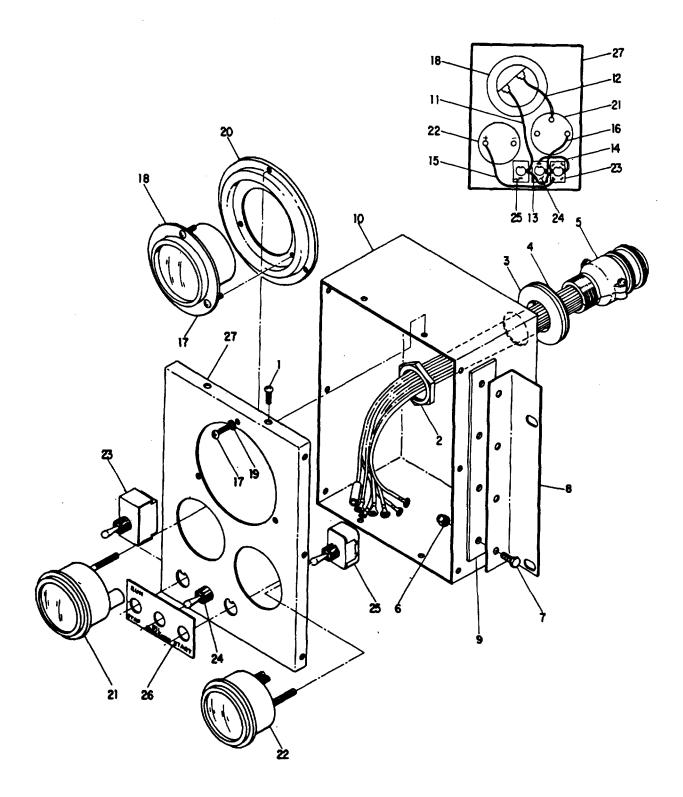


FUEL SYSTEM

ME 3895-341-14/D2

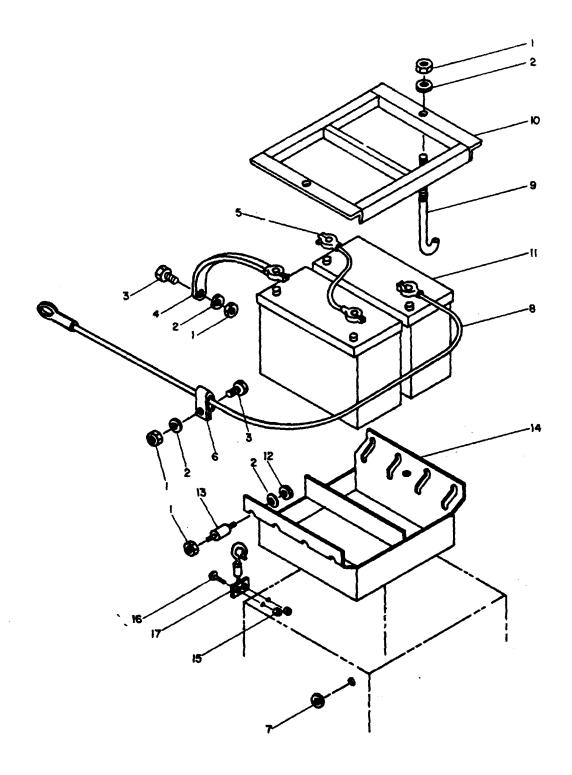
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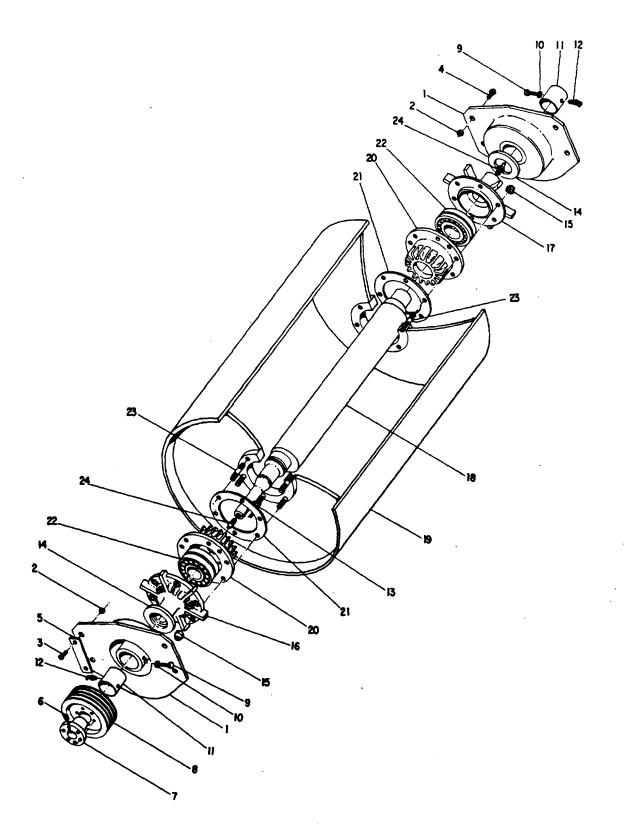
CONTROL PANEL

ME3895-341-14/D4



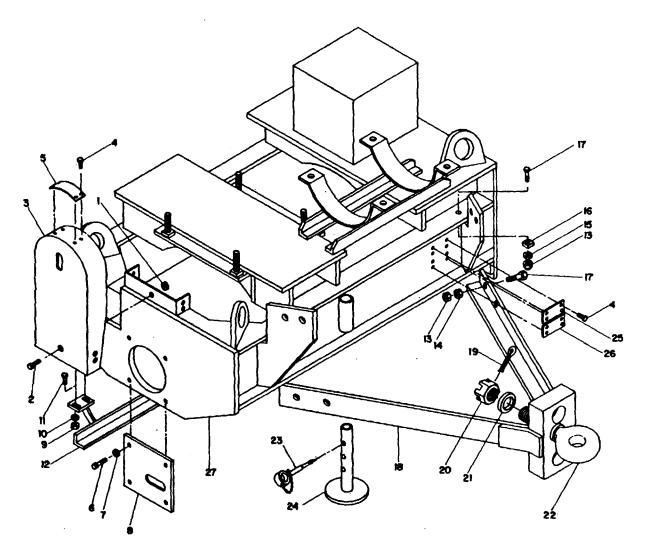
BATTERY AND BATTERY BOX

ME 3895-341-14/D5



ROLL AND SHAFT ASSEMBLY

ME 3895-341-14/06



FRAME AND TOWING ATTACHMENTS

ME 3895-341-14-07

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				BER	
STOCK NUMBER	FIGURE No.	ITEM No.	STOCK NUMBER	FIGURE No.	ITEM No.
2520-366-7191 2520-690-8933 2530-425-5828 2530-432-1661 2805-413-6178 2805-872-5971	D3 D3 D6 D6 D2 D1	18 16 16 17 10 27	5310-450-0317 5310-543-4385 5310-579-0079 5310-584-5272 5310-595-7237	D7 D3 D4 D2 D1 D7	20 30 19 3 3 7
2815-786-1564 4910-425-5899 2910-425-5900 2990-425-5902 2990-691-3135 3010-128-2701	D4 D2 D2 D3 D1 D3	20 16 11 8 42	5310-595-7421 5310-616-7998 6310-637-9541 5310-655-7145	D3 D1 D6 D1 D2 D5	, 4 10 12 2 1
3010-362-2951 3010-362-2954 3010-366-7185 3010-423-8028	D3 D3 D3 D3 D3	19 26 34 17	5310-655-7423 5310-680-7524 7310-732-0558	D3 D6 D1 D7	29 2 11 9
3010-423-8040 3010-423-8041 3020-425-5829 3020-425-5830 3030-758-9704	D3 D3 D3 D6 D3	24 41 5 8 1	5310-768-8905 5310-763-8921 8310-838-1702 5310-980-7524	D2 D7 D1 D7 D7	13 14 25 15 13
3040-425-5897 3040-447-8831 3040-653-9200 3120-432-8116 3120-472-8474	D6 D3 D3 D6 D6	18 48 9 7 14	5310-984-3806 5315-069-4766 5315-069-7465 5315-187-9600 5315-236-8345	D5 D3 D3 D7 D3	12 35 23 19 15
3820-802-2038 3895-200-6367 3895-425-5895 3985-425-5901 3910-423-8042 4730-048-1788	D3 D3 D6 D7 D3 D3 D3	32 21 1 12 36 45	5315-243-1159 5315-244-3906 5315-281-7549 5315-362-2948 5315-432-4336 5315-432-4337	D3 D3 D3 D3 D3 D6 D3	40 22 27 25 13 6
4730-050-4203 4730-050-4208 4730-172-0034 4730-187-4201	D3 D3 D6 D6 D2	50 28 24 12 1	5325-432-4739 5330-414-9267 5340-282-4986 5340-432-4021 5340-432-4025	D5 D3 D3 D5 D2	7 12 43 6 5
4730-277-8273 5305-042-6417 5305-068-0502 5305-236-3598 3505-253-5614 5305-269-3211 5305-269-3213	D3 D1 D4 D3 D7 D7 D3	33 5 7 10 4 2 2	5365-197-7885 5365-432-4489 5365-432-8231 5365-451-8980 5365-469-3717 5365-472-5295 5365-472-5296	D3 D6 D6 D1 D6 D6 D1	4 5 7 21 21 7
5305-269-3214 5305-269-3215 5305-269-3217 5305-450-0385 5305-451-1525	D1 D7 D1 D3 D7 D6	1 11 13 38 6 9	5365-619-8063 5930-111-1831 5930-655-1521 5930-655-1522 5930-655-1582 5935-431-4889	D6 D1 D4 D4 D4 D4 D4	5 16 24 25 23 5
5305-475-0630 5305-475-0631 5305-716-6318 5305-724-5896 5305-725-4105 5305-889-3000	D3 D3 D7 D6 D2 D4	46 7 17 6 14 17	5975-280-6079 6140-057-2553 3150-257-1472 6150-405-2205 6150-405-2211 6150-405-4825	D4 D5 D5 D4 D4 D4 D4	2 11 5 13 11 16
5305-903-7298 5305-939-1185 5305-939-9204 5305-984-6210 5306-225-8502	D6 D1 D6 D4 D5 D3	4 19 3 1 16 52	6150-405-4826 6150-428-7518 6620-056-9584 6625-272-9928 6645-089-8842	D1 D4 D4 D4 D4 D4	15 12 21 22 18
5306-450-0372 5306-753-4322 5306-853-2228	D5 D1 D2 D5 D3	13 20 4 3 55			
5307-431-8986 5310-081-4219 5310-081-4219 5310-167-0721 5310-189-8432 5310-194-1483 5310-208-1918 5310-208-1919 5310-209-1962	D6 D5 D7 D3 D3 D3 D3 D5 D4 D2 D7	33 2 1 47 13 8 15 6 2 10			
5310-225-6408 5310-407-9566 5310-423-8022 5310-432-4466 5310-432-4467 5310-432-8206	D7 D6 D1 D3 D4 D4 D7	10 15 21 14 3 4 21			

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NABS-102AA         800-44         D5         15         010023         2088         D6         13           A1101         61708         D3         40         100-0057         74-07         D3         12           A1157         61708         D3         40         100-0057         74-07         D3         12           A1567         61708         D3         44         100-0057         74-07         D3         12           A1567         61708         D3         74         101-047         2088         D6         40           A1567         61708         D3         74         101-047         2088         D6         40           A357         61708         D3         22         101534         2088         D6         21           A357         61708         D3         23         101534         2088         D6         21           A157         61708         D3         24         101254         2088         D6         21           A157         61708         D3         11         1010544         2088         D6         21         21           A157         61708         D3         11	REFERENCE No.	MFG CODE	FIG No.	ITEM No.	REFERENCE No.	MFG CODE	FIG No.	ITEM No.
MS15003-1       9606       D3       28       102825       20888       D6       5         MS17023-BC       96066       D1       4       1037       20885       D6       18         MS21655-5       96066       D3       15       104536       20885       D6       18         MS24655-5       96066       D7       12       1047507       20805       D7       21         MS25065-20       96066       D4       24       104764       20885       D6       1         MS25065-23       96906       D4       25       104764       20885       D6       14         MS25065-23       96906       D4       1       104769       20885       D6       14         MS25062-23       96906       D4       1       104779       20885       D6       16         MS25062-23       96906       D4       19       104774       20898       D7       27         MS25062-23       96906       D5       16       104770       20885       D6       10         MS25078-23       96906       D5       17       104774       20898       D7       24         MS25078-23       96906 <th>A1002 A1181 A1339A A1587 A2286 A3024 A3026 A3507 BS215443 B1537A B1537B B1537C C106SP6 J46243</th> <td>61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208</td> <td>D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D</td> <td>43 48 12 14 21 17 44 20 22 23 16 35 13</td> <td>1B8733 100-00157 101465 101478 101479 101481 101627 101532 101534 101535 101573 101624 101625 101643</td> <td>11083 79470 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988</td> <td>D3 D7 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6</td> <td>40 31 12 17 16 20 9 23 11 14 5 21 21 9</td>	A1002 A1181 A1339A A1587 A2286 A3024 A3026 A3507 BS215443 B1537A B1537B B1537C C106SP6 J46243	61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208 61208	D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D	43 48 12 14 21 17 44 20 22 23 16 35 13	1B8733 100-00157 101465 101478 101479 101481 101627 101532 101534 101535 101573 101624 101625 101643	11083 79470 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988	D3 D7 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6 D6	40 31 12 17 16 20 9 23 11 14 5 21 21 9
96906         DF         7         104895         20988         D7         8           MS3533-44         96906         D3         8         104893         20988         D1         6           MS35338-45         96906         D3         8         104893         20988         D1         6           MS35338-46         96906         D3         10         104804         20988         D1         7           MS35338-47         96906         D3         10         104804         20988         D4         27           MS35038-47         96906         D7         15         104805         20988         D4         27           MS30081-10         96906         D7         12         104867         20988         D4         26           MS51095-334         96906         D2         4         105004         20988         D5         5           MS51095-334         96906         D7         1         105007         20988         D4         3           MS51095-334         96906         D6         15         105010         20988         D4         3           MS51922-53         96906         D6         15	MS15003-1 MS17829-8C MS21318-20 MS24665-5 MS24665-754 MS27183-12 MS35058-29 MS35058-30 MS35059-23 MS35206-228 MS35206-228 MS35206-228 MS35206-263 MS35206-263 MS3533-37 MS35333-37	96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906	D3 D6 D1 D7 D5 D5 D4 D4 D4 D4 D4 D5 D4 D5 D4 D5 D4 D3 D1	28 24 4 15 19 2 24 25 23 1 17 16 19 47 3	102835 1037 104532 104530 104536 104750 104751 104759 104764 104765 104766 104769 104770 104773 104773 104798	20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988	D6 D6 D6 D7 D7 D7 D6 D7 D2 D2 D2 D2 D6 D5 D7 D3 D6	5 42 19 18 22 18 17 16 15 14 10 3 56 7
MS51095-335       96906       D3       55       105006       20988       D4       9         MS51095-361       96906       D7       1       105009       20988       D4       3         MS51922-53       96906       D5       12       105010       20988       D4       5         MS51922-9       96906       D5       12       105011       20988       D4       13         MS51967-23       96906       D7       14       105013       20988       D4       14         MS51967-23       96906       D7       9       105015       20988       D4       16         MS51967-23       96906       D7       9       105015       20988       D4       16         MS51967-23       96906       D1       5       105017       20988       D4       15         MS50725-187       96906       D6       3       105018       20988       D1       17         MS80725-187       96906       D7       2       105021       20988       D1       17         MS80725-64       96906       D3       2       105021       20988       D1       175         MS90725-65       9690	MS35338-45 MS35338-46 MS35338-48 MS35691-57 MS39081-10	96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906	D6 D7 D3 D1 D1 D2 D1 D2 D1 D7 D4 D1 D2	10 7 8 21 12 30 3 25 15 2 20 4	104856 104895 104898 104899 104900 104901 104904 104905 104967 104968 104972 105004	20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988	D7 D1 D1 D1 D1 D1 D1 D4 D4 D4 D4 D4 D4 D5	8 22 24 6 7 7 14 8 27 10 26 4
MS90725-189         96906         D6         4         105019         20988         D2         6           MS90725-38         96906         D3         52         105021         20988         D1         17           MS90725-6         96906         D7         2         105022         20988         D7         25           MS90725-62         96906         D3         2         105024         20988         D7         26           MS90725-64         96906         D1         1         105025         20988         D7         5           96906         D7         11         110D3         61208         D3         22           MS90725-65         96906         D1         13         11022         98388         D5         7           MS90725-67         96906         D2         14         1382         61208         D3         26           M1292A         61208         D3         32         178-3769         25681         D3         11           M2021E         61208         D3         46         1965A         61208         D3         17           M2027AN         61208         D3         29         2042	MS51095-361 MS51922-17 MS51922-53 MS51963-82 MS51967-23 MS51967-23 MS51967-8 MS51968-20 MS90725-113	96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906	D5 D3 D7 D6 D5 D6 D7 D1 D7 D1 D7 D2 D1	3 55 19 1 12 6 14 11 9 13 5	105005 105006 105007 105009 105010 105011 105012 105013 105013 105014 105015 105016 105017	20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988	D5 D5 D4 D1 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4 D4	5 8 9 3 26 5 13 14 16 11 15 12
M2004R         61208         D3         7         2HN11         88169         D5         17           M2023F         61208         D3         10         2033         78252         D5         25           M2027AN         61208         D3         29         2042         61208         D3         24           QQW423         81348         D1         18         2411         61208         D3         24           QQW423         81348         D1         123         2727         61208         D3         41           B1348         D3         54         2757         61208         D3         46           SH17-16         24161         D3         4         29NE040         72962         D4         6           TA61157         84971         D5         6         2968         61208         D3         36           TA639TD8         82971         D2         5         2969         61208         D3         34           WD66         66289         D1         8         300490         20988         D3         4           WWP471         81348         D2         1         304810         95879         D	MS90725-189 MS90725-38 MS90725-60 MS90725-60 MS90725-62 MS90725-64 MS90725-65 MS90725-65 MS90725-67 MS90726-164 M1292A	96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 61208	D6 D3 D4 D7 D3 D1 D7 D1 D3 D2 D3	4 52 7 2 1 11 13 38 14 32	105019 105021 105022 105023 105024 105025 110D3 11022 13206E0500 1382 178-3769	20988 20988 20988 20988 20988 20988 20988 61208 98388 97403 61208 25681	D2 D1 D7 D7 D7 D3 D5 D1 D3 D3 D3	6 17 15 25 26 5 22 7 27 27 26 11
	M2004R M2023F M2027AN M3888 QQW423 SH17-16 TA611S7 TA639TD8 WD66 WWP471	61208 61208 57733 81348 81348 81348 81348 24161 84971 82971 66289 81348	D3 D3 D4 D1 D1 D3 D3 D5 D2 D2 D1 D2 D3	7 29 20 18 23 54 6 5 8 1	2HN11 2033 2042 205SFC0DDTL0 2411 2727 2757 29NE040 2968 2969 300490 300490 304810	88169 78252 61208 38443 61208 61208 61208 72962 61208 61208 61208 61208 61208 86379	D5 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3 D3	17 25 57 24 13 41 6 36 36 34 4 10

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359L 363AE 3799 3951 4-3V36QD 4-3V80QD 4-3V850 400X4 42NE058	57733 57733 61208 61208 11288 11288 11288 11288 79470 72962 72962	D4 D1 D3 D3 D3 D6 D3 D3 D3 D2 D5	22 16 9 19 5 8 1 33 2 1 2
49NE120	72962 72962 72962	D6 D7	2 13
50ST 6007 6009 6026 61-0542	57733 03990 03990 03990 42280 42280	D4 D6 D3 D3 D1 D7	21 12 50 45 2 10
6680L12H70 6939 835WM 8539 911004 911111 911238 912110 923180 923501 923618 925128 925128 963560 967016 968433	42260 09393 61208 30327 61208 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988 20988	D2 D2 D3 D2 D2 D1 D2 D1 D7 D7 D7 D7 D7	10 12 53 8 51 7 9 9 9 10 21 39 16 21 39 16 21 6 20

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