## TECHNICAL MANUAL

DS, GS, AND DEPOT MAINTENANCE
MANUAL (INCLUDING REPAIR PARTS
AND SPECIAL TOOL LISTS)

VIEWER, STEREOSCOPIC ROLLFILM, PHOTOGRAPHIC INTERPRETATION AR-133A

## WARNING

Be careful when working on the 115-volt ac line connections. Serious injury or death may result from contact with these terminals.

## DON'T TAKE CHANCES!

# EXTREMELY DANGEROUS VOLTAGES EXIST IN THE FOLLOWING UNITS:

High-voltage	Transformer	(Secondary	Winding)	9,000	volts
Light Source	Terminals			9,000	volts

TECHNICAL MANUAL No. 11-6675-287-35

## **HEADQUARTERS** DEPARTMENT OF THE ARMY

Washington, D. C., 13 May 1971

## DS, GS, and Depot Maintenance Manual Including Repair Parts and **Special Tool Lists**

## VIEWER, STEREOSCOPIC ROLLFILM, PHOTOGRAPHIC INTERPRETATION AR-133A

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## CHAPTER 1

## INTRODUCTION

### 1-1. Scope

a. This manual covers direct support, general support, and depot maintenance for Viewer, Stereoscopic Rollfilm, Photographic Interpretation AR-133A (rollfilm viewer). It includes instructions for troubleshooting, testing, aligning, and repairing the equipment, replacing maintenance parts, and repairing specified maintenance parts. It also lists tools, materials, and test equipment required for these levels of maintenance.

*b.* The complete technical manual for this equipment includes TM 11-6675-287-12.

#### NOTE

Applicable forms and records are covered in TM 11-6675457-Z.

## 1-2. Reporting of Equipment Manual Improvements

Reporting of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-ME-NMP-EM, Fort Monmouth, N.J. 07703.

#### 1-3. Indexes of Publications

Refer to the latest issues of DA Pam 310-4 and DA Pam 310-7 to determine whether there are new editions, changes, or additional publications pertaining to this equipment.

## **CHAPTER 2**

# FUNCTIONING OF VIEWER, STEREOSCOPIC ROLLFILM PHOTOGRAPHIC INTERPRETATION AR-133A

#### Section I. MECHANICS.

## 2-1. Light Table Assembly (figs. 2-1 and 2-2)

The light table assembly consists of the X- (a below), Y- (b below), and Z- (c below) travel axis mechanisms, the stage cam shifting assemblies (d below), the film loop accumulation mechanism (e below), and the mask assemblies (f below).

a. X-Travel Axis Mechanism. The X-travel mechanism consists of the X-travel rail assembly and the bearing housing assembly. The Xbearing housing assembly contains the preloaded recirculating ball bearings which provide smooth positive motion along the X-travel axis, a drag brake, and the brush assembly, to provide a movable electrical contact for the electrical clutch. The bearing housing assembly is attached to and driven by the chain in the rail assembly. The X-travel rail assembly contains the drive mechansim for X-travel fine adjustments and consists of a control knob, a chain assembly, and an electrical clutch to hold the rail firmly in the desired position, eliminating drift. When the ON/OFF carriage switch (mounted on the right end of the rail assembly) is at ON, and the red carriage pushbutton switch on the Z-travel adapter plate assembly is depressed, the electrical clutch is released and the X-travel is free to move to the left or right. The X-travel control knob drives the chain assembly through a worm gear, bevel gears, and sprocket. As the chain moves, the X-bearing housing assembly slides along the rail assembly on the ball bearing assemblies. A drag brake on the X-bearing housing maintains the desired drag by maintaining contact (friction) on the rail assembly. The Z-travel mechanism is attached to the X-bearing housing assembly.

b. Y-Travel Axis Mechanism. The Y-travel

mechanism consists of a control knob, chain assemblies, an electrical clutch, a drag brake, the necessary bevel gears, sprockets, and two carriage support rails. The X-travel rail assembly is attached between the two carriage sup port rails so that any motion in the Y-travel direction moves the complete X-travel rail assembly. When the ON/OFF carriage switch is at ON, and the red carriage pushbutton switch on the Z-travel adapter plate assembly is depressed, the electrical clutch is released and the Y-travel is free to move forward or rearward. The chain assemblies in the Y-travel are anchored to both ends of the carriage support rails and do not move as in the X-travel. The Y-travel control knob drives the sprockets which move along the stationary chain assemblies, carrying the Y-travel mechanisms in a forward or rearward direction. The sprockets are driven by the control knob, through a worm gear mechanism and the necessary bevel gears. Bearing assemblies in the Y-travel mechanisms provide smooth positive movement on the carriage support rails.

C. Z-Travel Axis Mechanism. The Z-travel mechanism consists of a support slide assembly and a support assembly. The support slide assembly is attached directly to the X-bearing housing assembly of the X-travel mechanism. The support assembly moves up and down on the support slide assembly on preloaded recirculating ball bearings which provide smooth positive motion along the Z-travel axis. The Ztravel assembly contains both a course motion control knob and fine feed control. The coarse motion control drives a chain within the slide assembly, through a mechanical clutch, worm gear, bevel gears, and sprockets. The fine feed control drives the same chain through a worm gear and sprocket mechanism. The difference

between the coarse and fine feeds are the ratios between the worm gears and sprockets. The fine feed has a larger ratio.

- d. Stage Cam Shifting Assemblies. The stage cam shifting assemblies consist of control handles and cam mechanisms for movement of stage glass. Each viewing stage can be moved by this mechanism to open or close the stage separations.
- e. Film Loop Accumulator. The film loop accumulator permits viewing of adjacent filmslides spaced on the film up to 82 inches apart. This is done by looping the film down through the stage separation and looping it under two movable (traveling) rollers. The size of the loop is controlled by the distance the movable rollers are set from center, each roller being equidistant from the center at all times. The accumulator control FILM TAKEUP knob is on the front of the light table. The film loop accumulator mechanism consists of a combination of shafts, chains, magazines, chain guides, rollers, sprockets, miter gears, worm gears, couplings, and a control knob. For ease of operation, all aluminum parts in contact with drive chains have special surfacing which provides lubricity and long wear. The chains are positive driven by sprockets within their own tracks. At the left and right ends of each set of chains, an accumulator roller is attached. The chains are timed so that the accumulator rollers are equidistant from center at all times.
- f. Mask Assemblies. Two masking assemblies are provided to reduce the extraneous light while viewing film of various sizes. These assemblies are located between the light grids and each viewing stage. Each masking assembly consists of a sheet of 15-x 183/8-inch, 30-gage polyester film, dyed black; and a series of cables, rollers, and spring-loaded cable accumulator spools. The mechanism is accessible when the cover is removed from the electrical power box. Handles at the end of each viewing surface operate the mask assemblies in both fore and aft directions.

## 2-2. Stereoscope, Lens-Prism-Mirror, Aerial Photograph Interpretation AR\*135A (Zoom 240)

- a. Simultaneous Zoom (fig. 2-3). Simultaneous variable magnification (simultaneous zoom) is controlled by the common power changer knob which varies the magnification in both the left and the right optical systems simultaneously. The common power changer knob is used when the Zoom 240 is operated as a microscope or as a stereoscope. When the common power changer knob is turned, the common drive gear on the end of the common drive gear shaft turns the driven gears. In turn, the driven gears rotate the cylindrical cams about their axes. Top and bottom lens units are mounted on the cylindrical cams. Each lens unit contains a cell mount, a cam follower, and a lens assembly. The cam follower is seated in grooves cut in the top and bottom of the cylindrical cams. The lens unit follows the path prescribed by the groove cut in the cylindrical cam surface. The distance between the top and bottom lens units is increased or decreased, depending upon which direction the common power changer knob is turned. This variable spacing moves the lens units in a nonlinear manner to give the equivalent effect of many single lenses. The lens units are further guided by guide bars; these guide bars keep the lens units aligned with the optical axis.
- b. Independent Zoom. Independent variable magnification (independent zoom) is used when the Zoom 240 is operated as a stereoscope and two photographic images of different scales are being viewed. For independent zoom control of the optical systems, the common power changer knob is disengaged by setting it to 0.7X and lifting it to its uppermost limit. This action disengages the common drive gear and the driven gears, and independent control of the individual optical systems is taken over by the left and right power changer knobs. When either the left or right power changer knob is rotated, its associated drive gear turns the corresponding driven gear. The optical system then operates as de scribed in a above. The difference in the spacing of the lens units of each optical system provides the independent zoom.

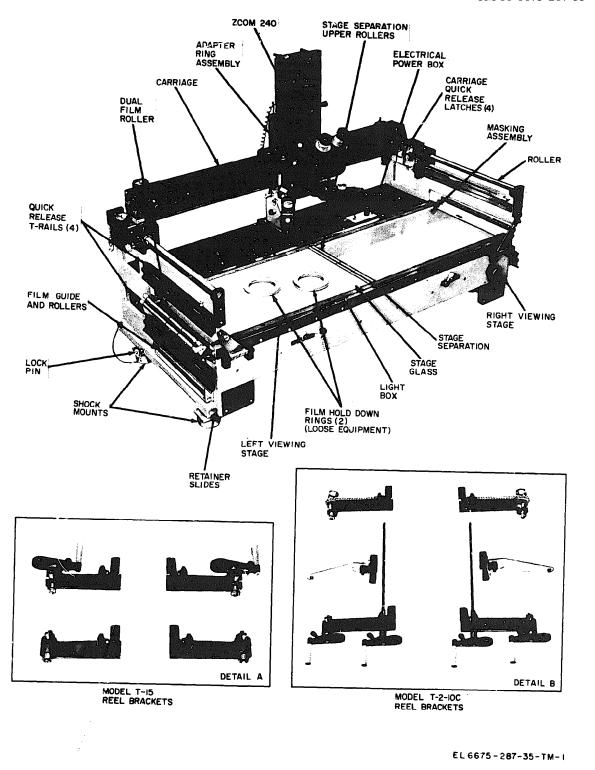


Figure 2-1. Details of rollfilm viewer.

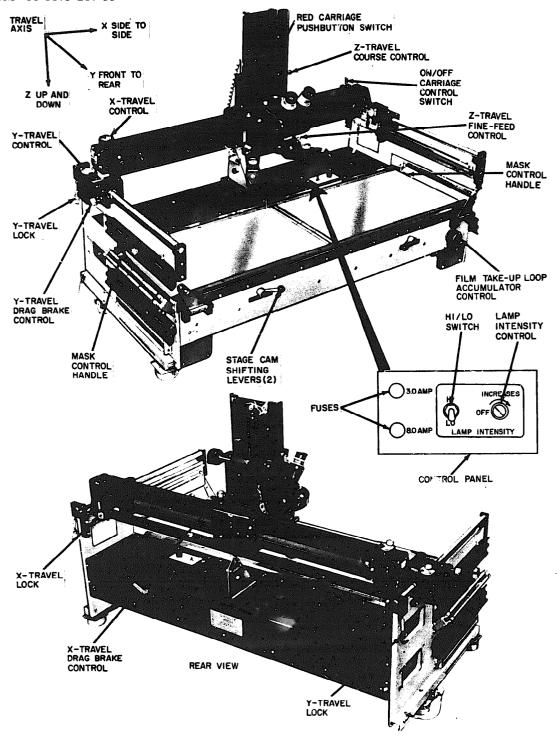


Figure 2-2. Carriage travel axis and light table controls.

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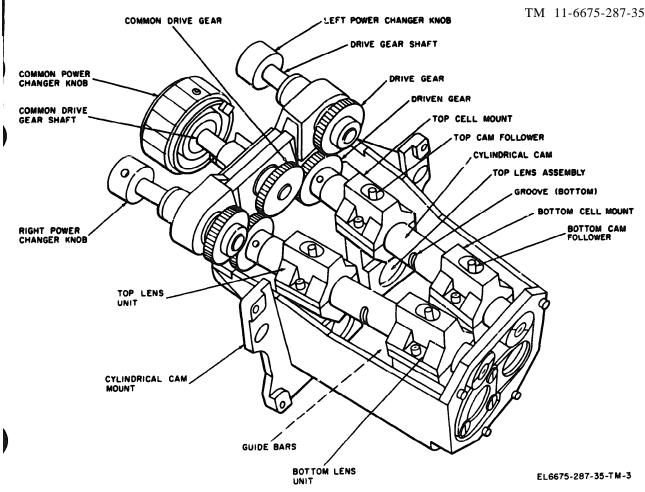


Figure 2-3. Power pod, mechanical schematic diagram.

#### Section II. OPTICS

## 2-3. Zoom Stereoscope Optical Arrangements

The optical functioning of the Zoom 240 used as a microscope is described in paragraph 2-4. Since the paths of the light rays through the optical systems in the power pod are identical when the Zoom 240 is operated as a stereoscope or a microscope, only the light ray path through the stereo rhomboid arms with stereo lenses is discussed in paragraph 2-4. Because of the complexities of the optical glass and the various indexes of refraction, the theoretical light ray path shown schematically is not meant to illustrate the actual light ray path.

## 2-4. Microscope (fig. 2-4)

a. The light rays (transmitted or reflected by

the subject being viewed) pass through the clear lens shield into the paired objective lens cells and the paired zoom lens assemblies. The combination of the objective lens cells and the zoom lens assemblies (zoom system) of each optical train provides a magnification range that is continuously variable between 0.7X and 3.0X.

b. The light rays from the zoom system are then diverted by the prism assemblies to the left and right eyepieces, respectively. The prism assemblies fold the light path, provide inclined viewing (tip the optical axis to an inclined position for comfortable viewing), and reposition the image of the subject to its normal perspective. The mechanical point of rotation of the mirror assemblies, and subsequently, the eyepiece assemblies, provides an interpupillary adjustment that does not disturb the viewed image

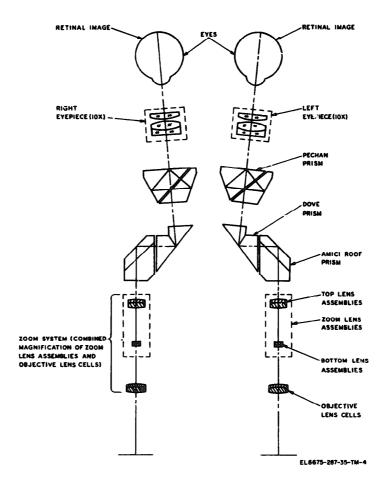


Figure 2-4. Typical microscope optical system, schematic diagram.

between the interocular distance of 60 to 72 millimeters (mm). The diverted light rays form a space image at the focal plane of the eyepiece.

- c. The space images are then made visible to the eyes with the eyepieces. Two pairs of eye pieces (10X and 20X) can be used interchange ably in the optical system. When the 10X eyepieces are used, the available magnification range is from 7X to 30X. Use of the 20X eyepieces extends the range from 14X to 60X. The 0.5X lens attachment is used in place of the clear lens shield to further extend the magnification range. The 0.5X lens attachment halves the available magnification range.
- d. The final retinal images formed on the retina of each eye appear to the eyes to be in a plane just above the viewed subject plane. The final retinal images are referred to as virtual

images because the light rays merely appear to come from the virtual images. The dashed lines going to the ends of these virtual images indicate that these are not actual rays of light, but merely extensions (in a downward direction) of the actual light rays. The actual light rays are shown in solid lines between the eyepieces and the eye. At about 10 inches, the virtual image is common for most observers. The virtual images of the individual optical trains lie in different planes. However, the angle of divergence is small enough to permit the eyes to accept it as a flat or nearly flat surface.

### 2-5. Stereoscope

(fig. 2-5)

a. The light rays (transmitted or reflected by each of the two subjects being viewed) are transmitted through the mirror and are directed through the focusing lens cells. The light rays

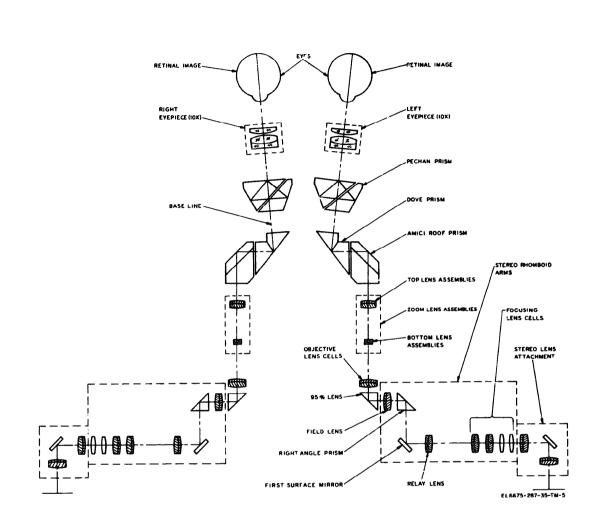


Figure 2-5. Typical stereoscope optical system, schematic diagram.

are then bent by the first surface mirror and reflected onto the prism of the arm. The rays are then reflected through the lens cells to a prism which transmits the subject to the objective lens.

**b.** The central rays, entering the rhomboid prisms, are perpendicular to the subject planes. Upon emerging from the prisms, the central rays remain perpendicular to the subject plane

but are displaced by a fixed amount. The line of emergence, projected to the first surface mirrors, now becomes the axis of mechanical rotation for the individual rhomboid prisms, which can be rotated individually or simultaneously. The central rays are then folded by the first surface mirrors and the triangular prism to match the separate axis of the optical system within the power pod. The central rays then enter the power pod (para 2-2).

## Section III. ELECTRICAL CIRCUITS

# 2-6. Rollfilm Viewer Electrical System (fig. 6-2)

The rollfilm viewer electrical system consists of a light source circuit, blower motor, fuses, two line filters, and a full-wave rectifier circuit which is used to energize the clutch circuits. The line voltage is distributed to the system through connector **P1**.

# 2-7. Light Source Circuit (fig. 2-6)

a. The mercury-argon light grids (light source) provide illumination for both rollfilm viewing surfaces. Power for the light source is provided by dimmer assembly Al which is a silicon-controlled rectifier regulated power sup ply.

- b. Dimmer assembly Al controls the current flowing through the primary windings of transformers T2 and TX The secondary windings of transformers T2 and T3 supply the high voltage output necessary to operate the light source. Current flow through the transformer's primary windings is controlled by silicon-controlled rectifier A1Q1 and A1Q2.
- c. At the beginning of each half-cycle, A1Q1 and A1Q2 do not conduct, and current flows through the primary windings of transformers T2 and T3, and the gating circuit. This current is not sufficient to induce a high voltage in the secondaries of T2 and T3 due to the high resistance of the gating circuit, which contains transformer A1T1, bridge rectifiers A1CR1 through A1CR4, trigger diode A1CR5, resistor A1R4,

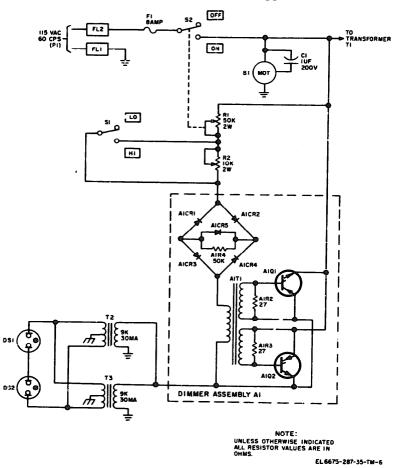


Figure 2-6. Dimmer assembly-light source circuit, simplified schematic diagram.

and variable resistors R1 and R2. Bridge rectifiers A1CR1 through A1CR4 always apply a forward bias to the outer regions of trigger diode A1CR5, regardless of the polarity of the applied voltage. The inner junction of trigger diode A1CR5 is reverse-biased, and the diode will not conduct until the voltage across it reaches a breakdown level of 32 volts.

d. When diode A1CR5 is nonconducting, the line voltage is dropped across resistors A1R4, R1, and R2. The setting of variable resistor R1 determines the voltage across the parallel combination of resistor A1R4 and trigger diode A1CR5. When the critical voltage level is reached, trigger diode A1CR5 conducts, shorting resistor A1R4 and causing a sudden surge of current to flow through the primary winding of transformer A1T1. This current induces a voltage in the secondary winding of transformer A1T1, which gates on A1Q1 or A1Q2. During the positive half-cycle, A1Q1 is gated on; A1Q2 is gated on during the negative half-cycle. Thus, A1Q1 or A1Q2 conducts for only the peak portion of a half-cycle and electrically connects the input directly across the primary of transformers T2 and T3, causing maximum current to flow through the primary winding.

e. The brightness of the light source is controlled by the setting of variable resistor R1. When the resistor is set for minimum resistance, diode A1CR5 is triggered early in the half-cycle. Rectifier A1Q1 or A1Q2 is gated and conducts until the end of the half-cycle. When variable resistor R1 is set for maximum resistance, trigger diode A1CR5 is triggered late in the half-cycle and either A1Q1 or A1Q2 conducts for a relative short period of time. The brightness of the light source is proportional to the length of time that A1Q1 and A1Q2 conducts.

f. Capacitors A1C1 and A1C2 (fig. 6-2) are connected in series with transformers T2 and T3, and in parallel with the trigger diode circuit. These capacitors shift the phase of the voltage across this circuit to delay the control voltage

by approximately 90° with respect to the line voltage. This action insures that control of the firing point begins near the end of each half-cycle during which either A1Q1 or A1Q2 can operate. As variable resistor R1 is adjusted to increase the brightness of light source DS1 and DS2, A1Q1 or A1Q2 is gated on earlier during the half-cycle, allowing firing closer to the time when peak voltage appears across this circuit. In no way do the capacitors affect the operation of this circuit once A1Q1 or A1Q2 is gated on. With either A1Q1 or A1Q2 gated on, the capacitors are effectively shorted out.

g. HI/LO switch **S1** is used to select the illumination range by connecting or removing variable resistor R2 from the circuit. When the switch is set to HI, variable resistor R2 is shorted out, increasing the voltage across the primary winding of transformer A1T1.

## 2-8. Clutch Circuit-Full-Wave Rectifier Circuit

(fig. 2-7)

a. Blower motor B1 is energized when power switch S2 is placed to the ON position. The blower motor is used to cool all the electronic components installed in the light table. Capacitor Cl is used to phase-shift the line voltage applied to the motor.

b. When LAMP INTENSITY control S2 is placed to the ON position, line voltage is also applied to the primary winding of transformer T1. Transformer T1 steps down the line voltage to 12 volts and applies this voltage to full-wave rectifier CR1. Full-wave rectifier CR1 rectifies the 12 volts ac to pulsating dc (6 volts) which is filtered by capacitor C2. The dc voltage across input filter capacitor C2 is applied to the carriage switch \$3. When carriage switch \$3 is placed to the ON position, voltage which energizes clutch solenoids Z1 and Z2 is routed across capacitor C3 and the clutch solenoids through red carriage pushbutton switch S4. The clutches are disengaged, allowing X- and Y-travel of the stereoscope over the light table.

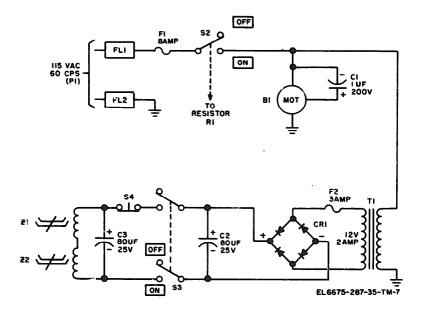


Figure 2-7. Clutch circuit-full wave rectify simplified schematic diagram.

## CHAPTER 3

### DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

#### Section I. GENERAL

### 3-1. Scope of Maintenance

Direct and general support maintenance duties for the rollfilm viewer are listed below, together with references to the paragraphs covering specific maintenance functions.

- a. Troubleshooting (para 3-3).
- b. General parts replacement techniques (para 3-13).
- c. Considerations before disassembly (para 3-14).
- d. Disassembly of light table assembly (para 3-15).
  - e. Disassembly of Zoom 240 (para 3-16).
  - f. Repair and cleaning (para 3-17).
  - g. Lubrication (para 3-18).
  - h. Adjustments (para 3-19).
- i. Reassembly of light table assembly (para 3-20).
- 3-2. Tools, Test Equipment, and Materials Required

The following tools, test equipment, and mate-

rials are required to perform direct and general support maintenance on the light table assembly.

- a. Toolkit, Photographic Repair TK-109/GF.
- b. Toolkit, Photographic Repair TK-77/GF.
- c. Multimeter TS-352/U.
- d. Oscilloscope AN/USM-81.
- e. Hand blower (air syringe) (FSN 5120-254-4612).
- f. Lens cleaner (FSN 6760-400-5175).
- g. Lens tissue (FSN 6640-393-2090).
- h. Xylene (FSN 6810-598-6610).
- i. Cleaning compound (FSN 7930-395-9542).
- j. Camel's-hair brush (FSN 8020-245-4509).
- k. Lint free cloth (FSN 8305-170-5062).
- l. Cotton swab (FSN 6515-303-8250).

## Section II. Troubleshooting

#### WARNING

When troubleshooting or making repairs in this equipment, be extremely careful. Voltages as high as 9,000 volts are present internally. Use insulated test probes when making the required

voltage measurements. Always disconnect the power cord from the equipment before touching any of the internal parts.

## 3-3. General Instructions

a. Troubleshooting at direct support, general

support, and depot maintenance categories includes all of the techniques outlined for organizational maintenance, and any special or additional techniques required to isolate a defective part. The direct support, general support, and depot maintenance procedures are not complete in themselves but supplement the procedures described in organizational maintenance. The systematic troubleshooting procedure, which begins with the operational and sectionalization checks performed at the organizational category of maintenance, must be completed by further localizing and isolating techniques. Paragraphs 3-5, 3-6, and 3-7 provide unit troubleshooting procedures which must be performed at the direct support, general support, and depot maintenance categories.

b. Troubleshooting may be performed while the equipment is operating or, if necessary, after the equipment (or parts of it) has been removed from service. When trouble occurs, certain observations and measurements can be made that will help to determine the source of trouble. Usually, when troubleshooting is performed while the equipment is operating, it is done at the organizational category (TM 11-6675-287-12). Troubleshooting at the direct support category is usually done with the component removed from the equipment with which it is normally associated. Paragraph 3-4 describes the systematic procedures to be followed which will enable the maintenance personnel to isolate the cause of the trouble and correct the fault.

## 3-4. Organization of General Troubleshooting Procedures

a. General. The first step in servicing a defective equipment is to sectionalize the fault. Sectionalization means tracing the fault to the major component. The second step is to localize the fault. Localization means tracing the fault to the defective section, stage, or unit. The third step, isolation, means tracing the fault to the defective part. Some faults, such as defective film transport mechanism or binding of mechanical components, can often be isolated by sight, touch, or hearing. The majority of faults, however, must be isolated by detailed electrical, mechanical, and optical checks.

### b. Sectionalization.

- (1) Visual inspection. The purpose of visual inspection is to locate faults without testing or measuring circuits or components. All visual signs should be analyzed to help localize the fault to a particular subchassis, stage, or unit. Mechanical faults are most often localized through visual inspection.
- (2) Operational tests. Operational tests frequently indicate the general location of trouble. In many instances, the tests will help to determine the exact nature of the fault. The operator's daily preventive maintenance checks (TM 11-6675-287-12) contain good operational tests. Additional operational tests are described in paragraph 3-6.
- c. Localization. The tests given in (1) and (2) below will aid in localizing the trouble. First, localize the trouble to a section or unit; then isolate the trouble within that section or unit by electrical, mechanical, or optical checks, as required. Use trouble localization methods as follows:
- (1) *Troubleshooting chart*. The trouble symptoms listed in this chart (para 3-6b) will aid in localizing trouble to a component part.
- (2) *Optical tests*, Optical testing procedures (para 4-6) will aid in localizing troubles within the optical system.

#### d. Isolation.

- (1) Voltage and resistance measurements. This equipment contains semiconductors. Observe all cautions given to prevent semiconductor damage. Make voltage and resistance measurements in this equipment only as specified. When measuring voltages, use tape or sleeving to insulate the entire test prod, except for the extreme tip. A momentary short circuit can ruin the semiconductors. Use resistor and capacitor color codes (fig. 6-1) to find the value of the components. Use voltage and resistance diagrams to find normal readings and compare them with readings taken.
- (2) Intermittent troubles. In all tests, the possibility of intermittent troubles should not be overlooked. If present, this type of trouble often may be made evident by tapping or jarring the equipment. Check the wiring and connections to the units of the set.

(3) Optical troubles. Troubles in optical systems can usually be located by following step-by-step testing procedures. Perform these tests (para **4-6**) to find the normal results and compare them with the results obtained.

## 3-5. General Operational Checks

- a. Preliminary Check.
- (1) Check the rollfilm viewer for completeness.
- (2) Check for broken, scratched, or chipped glass, and broken or bent controls.
- (3) Check for broken, bent, or damaged power cord.
  - b. Carriage Mechanism Check.
- (1) Check the operation of the X- and Y-carriages as follows:
- (a) Turn LAMP INTENSITY switch fully clockwise.
  - (b) Place ON/OFF carriage switch to ON.
  - (c) Depress red carriage pushbutton.
- (*d*) Move the X-carriage the length of the table vertically and the Y-carriage the length of the table horizontally.

#### NOTE

No binding of the carriage assemblies should be observed.

- (2) Check for positive action of the X- an Y-magnetic clutches as follows:
- (a) Turn LAMP INTENSITY switch fully counterclockwise to OFF.

(b) With a force of more than 10 pounds, move the X-carriage and then the Y-carriage the length of the table.

#### NOTE

The carriages should not move when a force of less than **10** pounds is applied.

- (3) Check for positive operation of the film tension screws by tightening the screws. The crank handles should not move.
  - c. Light Source Check.
- (1) Set the HI/LO switch to LO, and set the LAMP INTENSITY control to on.
- (2) Vary the LAMP INTENSITY control and check to see that the light source intensity varies.
- (3) Set the HI/LO switch to HI and check to see that light source intensity increases.

#### 3-6. Trouble localization

- a. General. If proper results are not obtained during the performance of the general operational checks (para 3-5), the trouble should be localized to the individual section of the equipment. Depending upon the nature of the operational symptoms, two different approaches may be necessary; the troubleshooting procedures given in b below, or the light source circuit electrical tests given in d below.
- b. Troubleshooting Chart. The troubleshooting chart (c below) lists the symptoms which the maintenance man observes while making general operational checks. The probable cause and corrective action for each trouble symptom are also presented in the chart. This chart supplements the troubleshooting charts given in TM 11-6675-287-12.

#### c. Troubleshooting Chart.

Item No.	Symptom	Probable trouble	Correction
1	Light source does not light; fuse F1 not blown; primary pow- er source circuit	a. Defective power cord	a. Remove power cord from ac outlet and check for short circuits; replace if defective (fig. 6-2).
	breaker tripped.	ь. Defective radio frequency interference filter.	b. Remove power cord from ac outlet and check for short circuit between input terminal and case, and output terminal

Item No.	Symptom	Probable trouble	Correction
2	Light source does not light; fuse F1 blown; and primary power source operating properly.	a. Defective LAMP INTEN- SITY switch S2.	and case. Replace radio frequency interference filter if short circuit is detected.  a. Check to see it blower motor B1 is operating. If blower motor is operating, switch S2 is operational. If blower motor B1 is not operating, and clutches Z1 and Z2 are not engaged when carriage assembly switch S3 is ON with red pushbutton depressed, switch S2 is defective. Replace LAMP INTENSITY switch S2 if defective (para 3-15g).
		<ul> <li>b. Defective dimmer assembly Al.</li> <li>c. Defective resistor R2</li> </ul> d. Defective grid assembly	<ul> <li>b. Test dimmer assembly (para 3-6d); replace if defective (para 3-15g).</li> <li>c. Remove primary power source and measure resistor R2 with ohmmeter. Resistance should be 10 K ohms; replace resistor R2 if defective (fig. 6-2).</li> <li>d. Test grid assembly transformers T2 and</li> </ul>
		transformers T2 and T3.  e. Defective light grid assemblies DS1 and DS2.	T3 (para 3-7); replace if defective (para 3-15g). e. Replace light grid assemblies DS1 and
3	Left or right side of light table does not illuminate.	semblies DS1 and DS2.  Defective left or right light grid assemblies (DS1 and DS2), and left or right grid assembly transformers (T2 and T3).	DS2 (para 3-15f).  Light grid assemblies and their associated transformers may be checked by a process of elimination.  Example: if the left grid assembly will not light, exchange left and right grid high voltage wires. Ii the grid lights after the exchange of wires, this will indicate the left grid transformer is defective and must be replaced. If the left grid still does not light after the exchange of high voltage wires, this may indicate that the grid assembly is defective.
4	Light source dim	a. Defective LAMP INTEN- SITY switch S2 (variable resistor R1).	a. Connect jumper across variable resistor R1. If light source illuminates, replace LAMP INTENSITY switch assembly (para 3-15g).
		b. Defective dimmer assembly Al. c. Defective grid assembly transformers T2 or T3.	<ul> <li>b. Test dimmer assembly (para 3-6d); replace if defective (para 3-15g).</li> <li>c. Test grid assembly transformers T2 or T3 (para 3-7); replace if defective (pars 3-15g).</li> <li>d. Replace light grid assembly DS1 or DS2</li> </ul>
5	Light source flashes (varies in intensity).	<ul> <li>d. Defective light grid assembly DS1 or DS2.</li> <li>a. Defective (intermittent) HI/LO switch S1.</li> </ul>	<ul> <li>(para 3-15f).</li> <li>a. Connect jumper between contacts of HI/LO switch S1. If light source intensity is steady and illuminates LO, replace switch. If light source still flashes, remove jumper.</li> </ul>
		<ul><li>b. Defective dimmer assembly Al.</li><li>c. Defective grid assembly transformer T2 or T3.</li></ul>	<ul> <li>h. Test dimmer assembly (para 3-6d); replace if defective (para 3-15g).</li> <li>c. Test grid assembly transformer T2 or T3 (para 3-7); replace if defective (para 3-15g).</li> </ul>
6	Light masks do not pull	d. Defective light grid assembly DS1 or DS2. Light mask roller assembly	d. Replace light grid assembly DS1 or DS2 (para 3-15f).  Clean mask assembly. Refer to TM 11-6675-
7	out freely.  Drag brake does not hold.	dirty.  Weak or defective drag brake spring.	287-12.  Replace drag brake spring (para 3-17b).

Item	Symptom	Probable trouble	Correction
No.			
8	Erratic carriage move- ment.	<ul> <li>a. Circulating ball bearing assemblies dirty.</li> <li>b. Ball bearings missing from circulating ball bearing assemblies.</li> </ul>	<ul> <li>a. Clean circulating ball hearing assemblies (para 3-17a(2)).</li> <li>b. Replace missing ball bearings (para 3-17a(1)).</li> </ul>
9	X- and Y-carriage fine feed controls inoperative.	a. Defective fuse £	a. Replace fuse F2.  Caution: Do not over fuse. Use 3AG3 amp fuse only.
		b. Defective carriage trans- former T1.	b. Test carriage transformer T1 using a voltmeter set on the 50-volt dc scale. Connect meter leads to red and black leads attached to the L-us bar located on the right side of the light table. With the carriage ON/OFF switch in the ON position, measure 12 volts dc. If zero volt is measured; replace carriage transformer T1 (para 3-15g).
		c. Defective full-wave recti- fier CR1 or input filter capacitor C2.	c. Measure approximately 6 volts dc across input filter capacitor C2 (fig. 6-2). If voltage is not measured, replace recti- fier CR1 or capacitor C2.
		d. Connector blocks not making contact.	d. Reseat connector blocks located on the left and right side of the carriage. Ad- just connector pins by removing the car- riage from the light table (para 3-19a).
		e. Dirty bus bars	e. Clean bus bar with a soft cloth dampened with cleaning compound (FSN 7930-395-9542.
		f. Defective ON/OFF car- riage switch.	f. Connect jumper wire between posts 1 and 2 (fig. 3-1) of ON/OFF switch. If switch is defective, the fine feed controls will now operate; replace defective switch.
		g. Defective red carriage pushbutton switch.	g. Connect jumper wire between two contacts of the red carriage pushbutton switch. This pushbutton switch is located at the left rear of the Zoom 240 adapter ring assembly. If pushbutton switch is defective, the carriage will move easily.
		h. Defective Y-travel clutch	h. The Y-travel clutch is located on the left side of the Zoom 240 carriage and controls the rapid and fine feed of the Zoom 240 carriage in the Y-direction. The clutch electrical connector block. located on the left side of the table, can be reset or adjusted (para 3-19a). If clutch will not operate after adjustment. perform a continuity test with an ohmmeter across the two clutch terminals (fig. 3-2). If continuity is not measured the clutch is defective; replace clutch (para 3-15d). If continuity is measured and clutch will not operate, a mechanical defect is indicated; replace clutch (para 3-15d).

Item No.	Symptom	Probable trouble	Correction
		i. Defective X-travel clutch	i. The X-travel clutch is located on the left side of the Zoom 240 carriage and controls the rapid and fine feed of the Zoom 240 carriage in the X-direction. Test the X-travel clutch by performing a continuity test with an ohmmeter across the two clutch terminals (fig. 3-3). I! continuity is not measured, the clutch is defective; replace clutch (para 3-15c). If continuity is measured and clutch will not operate, a mechanical defect is indicated; replace clutch (para 3-15c).

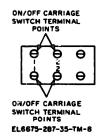


Figure 3-1. ON/OFF carriage switch, terminal points.

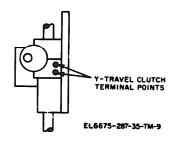


Figure 3-2. Y-travel clutch, terminal points.

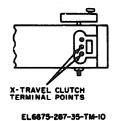


Figure 3-3. X-travel clutch, terminal points.

## d. Light Source Circuit Electrical Tests.

(1) Set the LAMP INTENSITY control to OFF.

- (2) Disconnect the light table from the primary power source by removing plug **P1**.
- (3) Connect the oscilloscope vertical input terminals, with a voltage attenuator, across the primary winding of grid assembly transformer T2 or T3. Connect plug P1 (light table) and line cord (oscilloscope) to the primary power source.
- (4) Turn the LAMP INTENSITY control until it clicks on. Using internal sync, synchronize the oscilloscope with the voltage across grid assembly transformer T2 or T3.
- (5) While observing the oscilloscope, vary the LAMP INTENSITY control between the minimum and maximum positions. Check to see that the pulse displayed on the oscilloscope increases in width and amplitude, gradually assuming the shape of a sine wave as the control is turned clockwise.
- (6) If the pulse displayed in (5) above is not correct, LAMP INTENSITY variable resistor R1, or dimmer circuit A?, is defective. If the pulse displayed in (5) above appears to be correct, but the light source does not operate properly, either the transformer or the light grid assembly is defective. To determine whether the transformers or the light grid assemblies are defective, perform the procedures given in paragraph 3-7.

### 3-7. Transformer and Light Source Check

a. Set the LAMP INTENSITY control to OFF. Disconnect the light table from the power source by removing plug **P1**.

#### WARNING

High voltage. up to 9,000 volts, may 'be present at the output terminals of transformers T2 and T3. Do not measure this voltage. Momentary contact can cause severe shock, electrical burns, or death. Check to see that power is removed from the roll-film viewer before the transformer is touched.

- b. Remove the coating from transformers T2 and T3 secondary terminals, and tag and unsolder the leads. Disconnect the transformer primary leads from terminal board TB3.
- c. Measure the resistance of the primary and secondary windings. The primary should measure 2.2 ohms, and the secondary should measure 23,000 ohms. If either of the two measure ments is off by more than 5 percent, replace the defective transformer.
- *d.* Reconnect the secondary (high voltage) leads to the transformers. Apply RTV coating 102 to the transformer secondary terminals before the transformers are **replaced.**
- e. Connect a power cord to the primary of either transformer T2 or T3 (be sure to use a 3wire power cord as shown in figure 6-3), and plug the cord into a 115-volt ac convenience outlet. The light grid assembly should give off a bright light. Remove the power cord from the first transformer being tested and reconnect power cord to other transformer (T2 or T3). Plug cord into 115-volt ac convenience outlet and the second light grid assembly should give off a bright light. If either or both light grid assemblies do not illuminate, replace the defective assembly, as described in paragraph 3-15f. If both light grid assemblies (DS1 and DS2) perform satisfactorily, the trouble is in the control circuit, as indicated in paragraph 3-6d.
- 3-8. X- and Y- Travel Clutch Assembly Check
- a. Connect power cord P1 into a 115-volt ac convenience outlet.
- b. Insure that LAMP INTENSITY switch is in the OFF position.
- c. Move the carriage assembly in the X- and then the Y-travel direction with sufficient force

to overcome both clutches. The carriage shall **not** move with a force of less than 10 pounds in either direction.

- d. Turn LAMP INTENSITY switch clockwise to on.
- e. Place carriage ON/OFF switch to the ON position.
- f. Depress the red carriage pushbutton and move the carriage assembly through the entire length of the X- and Y-travel. The carriage assembly shall not bind and should not require more than 3 pound8 of force for free movement.

#### NOTE

Make certain that the X- and Y-travel locks are released before moving the carriages.

#### 3-9. Clutch Circuit Check

- a. Connect power cord P1 into a 115-volt ac convenience outlet.
- b. Turn LAMP INTENSITY switch to on.
- c. Observe bloer motor B1 for cooling operation.
- d. Using a voltmeter (ac scale) measure 115 volt8 ac across the primary winding of transformer T1. Measure 12 volts ac across the secondary winding of transformer T1. If blower motor is operating and zero volt is measured across the primary winding, fuse F2 or transformer T1 is defective. Check fuse F2; if blown, replace fuse. If fuse is not blown, replace transformer T1.
- e. Using a voltmeter (dc scale), measure 6 volts dc across capacitor C2. If 6 volts dc is not measured but 12 volts ac is measured across the secondary winding of transformer T1 (above), full-wave rectifier CR1 or capacitor C2 is defective.
- f. Place carriage ON/OFF switch S3 to the ON position.
- g. Connect voltmeter (dc scale) across capacitor C3 and depress the red carriage pushbutton switch S4. If 6 volts dc is measured, circuit test is complete. If 6 volts dc is not measured, perform the following:

- (1) Connect jumper across carriage **ON**/OFF switch **S3**; **if 6 volts dc is measured, re**move jumper and replace **ON**/**OFF switch (para 3-15g).**
- (2) Connect jumper across red carriage pushbutton switch S4; if 6 volt8 dc is measured, remove jumper and replace pushbutton switch (para 3-15e).
- (3) Place LAMP INTENSITY switch to OFF. Disconnect leads to coil of clutch Z1 and Z2. Using an ohmmeter, measure both coil8 of clutch Z1 and Z2 for continuity. If continuity is measured, replace capacitor C3. If continuity is not measured, replace clutch coil8 Z1 or Z2.

### 3-10. Troubleshooting the Zoom 240

Before troubleshooting the Zoom 240, perform an operational check as outlined in paragraph 3-11.

## 3-11. Operational Check

- a. Assemble the Zoom **240 as a stereoscope** and install it in the arm assembly (TM 11/6675-287-12).
- b. Check the displacement of the eyepiece tubes. See that the movement of one eyepiece tube moves the other the same degree while maintaining the same horizontal axis, and that the spacing between the eyepiece tube8 remain8 a8 set until manually changed.
- c. Check to see that the range of interpupillary separation is adjustable from **60** to 72 mm.
- d. Place the photographic material to be viewed on the illuminated format8 under the **Zoom 240**.
- e. Space the eyepiece tubes for correct interpupillary separation, and focus the equipment.

## NOTE

After compensating for the difference in visual acuity between the eyes, set the focus and check to see that no further focus adjustment is required for various power changes. Focus to accommodate various thicknesses of photographic material by using the upper or lower focusing knobs.

f. Rotate the individual rhomboid arm8

- throughout their entire range. The motion should be smooth but with a slight damping action. The minimum separation of the rhomboid arm8 is 35 mm (1.33 inch); and the maximum separation is 381 mm (15 inches) on the Zoom 240.
- g. With the common power changer knob engaged for common control of the zoom lens assemblies, check to see that rotation of the common power changer knob varies the magnification of both halves of the optical system simultaneously. With the common power changer knob disengaged, check to see that the left and right power changer knob8 control the magnification of their respective optical trains.
- $\emph{h.}$  Check to see that the magnification of the Zoom 240 is continuously variable from 0.7X to 60X.
- i. Assemble the Zoom 240 a8 a microscope (TM 11-6675-287-12).
- j. Verify that the magnification is continuously variable from  ${\bf 3.5X}$  to  ${\bf 30X}$  with the 0.5X lens attachment in place.
- k. Rotate the common power changer knob, and check to see that the magnification of both halve8 of the optical system varies simultaneously.

#### 3-12. Localizing Trouble

a. *General.* If the proper results are not obtained by performing the operational check8 (para 3-11), the trouble should be localized to the individual section of the component. Depending on the nature of the operational symptoms, one or more of the localizing procedure8 will be necessary.

### NOTE

None of the parts of the Zoom 240 are interchangeable. Do not attempt to replace the entire Zoom 240. The defective unit must be returned to the manufacturer for repair.

b. Use of Chart. The troubleshooting chart is designed to supplement the troubleshooting chart in TM 11-6675-287-12 and the operational check8 (para 3-l 1). If operational symptoms are not known, repeat the operational checks (para

3-11) and refer to the troubleshooting chart below (d below).

c. Zoom 240, Troubleshooting Chart. The chart (*d* below) lists the symptoms which the maintenance man **observes** while making the

general operational check8 (para 3-11). The chart also indicate8 a method of localizing trouble to the individual section or component.

## d. Zoom 240 Troubleshooting Chart.

Item No.	Symptom	Probable trouble	Correction
1	Difference in magnifi- cation when common power changer knob is at low setting.	Foreign matter restricting zoom lens assembly movement.	Remove foreign matter, if fault not corrected, replace power pod.
2	Difference in magnifi- cation at high or low setting.	Stripped gears in power pod	Check for damaged gears; replace power pod if gears are damaged.
3	Left eyepiece focusing sleeve not effective.	Eyepiece not seated at bottom of eyepiece tube.	Reseat eyepiece tube; make sure that it is in contact with bottom of eyepiece tube.
4	Optical system com- pletely out of focus and will not zoom.	Sheared cam follower	Check for damaged cam follower; replace power pod if cam follower is damaged.
5	No image through op- tical system.	Defective prism assembly	Check prism assembly; replace power pod if mirror assembly is damaged.
6	No image through one or both optical trains.	Broken triangular prism	Replace stereo rhomboid arms with stereo lenses.
7	Stereo pair cannot be brought into fusion.	<ul> <li>a. Eyepiece tube centering defective.</li> <li>b. Objective lens off center</li> <li>c. Complete optical system out of alignment.</li> </ul>	a. Replace power pod. h. Replace power pod. c. Replace power pod.
8	Color fringes (blue and yellow) apparent on high-contrast object matter.	Optical system not aligned	Replace power pod.
9	Viewed stereo model appears tipped.	Mirror assembly alignment defective.	Replace power pod.
10	Both images cannot be focused simultan-eously.	Triangular prism out of align- ment.	Replace power pod.

#### Section III. DISASSEMBLY REPAIR, CLEANING, ADJUSTMENTS, AND REASSEMBLY

## 3-13. General Replacement Techniques

Most of the part8 in the rollfilm viewer can be easily reached and replaced without special procedures. However, the optical and some mechanical part8 are precisely made and the alignment of these part8 is critical. Defective optical and mechanical part8 are returned to the manufacturer for repair.

#### 3-14. Considerations Before Disassembly

Sectionalizing trouble in the rollfilm viewer can simplify repair by limiting the work to the defective area. Repair8 that can be made by disassembly of the particular part8 that operate as a group to perform a function are outlined below. Before disassembling the entire light table assembly, refer to paragraph8 that contain in-

structions concerning the defective area. Repair or replace the defective part or parts; then, assemble them to the light table assembly.

a. Carriage Assembly. The carriage assembly is composed of an X-travel carriage, a Y-travel carriage, and a Z-travel (vertical) carriage. Repair8 to the carriage assembly can be made without disassembling the entire light table assembly and without removing the light table assembly from its tracks. Refer to paragraph 3-15a for removal of the carriage assembly and paragraph 3-20f for installation of the carriage assembly. Each of the carriages (X-. Y-. and Z-travel) can be repaired individually. Before disassembling the X-, Y- or Z-travel carriages. separate them as instructed in paragraph 3-15b. Once separated, the travel carriages can be dis

**assembled as outlined in paragraphs 3-15c through e and** reassembled as outlined in paragraph **3-206 through d.** 

- **b. Light** *Table.* **Repair of the light table** can be made by removing the Zoom 240 (TM 11-6675-287-12) and removing the carriage assembly (para 3-15a) to permit removal of the components. Refer to paragraph 3-15f for disassembly and paragraph 3-20a for reassembly of the light table parts shown in figure 3-8.
- c. **Zoom** 240. Do not attempt to disassemble or lubricate the Zoom 240. The defective Zoom 240 shall be returned to the manufacturer for repair. Removal of the Zoom 240 from the carriage assembly is given in TM 11-6675-287-12. Refer to paragraph *3-17d* for cleaning the Zoom 240.

## 3-15. Disassembly of Light Table Assembly

- a. Removal of Carriage Assembly (fig. 3-4). Remove the carriage assembly from the light table as follows:
- (1) Remove Zoom 240 from carriage assembly. Refer to TM 11-6675-287-12 for removal instructions.
- (2) Release the shipping lock on the center carriage support. Open two quick-release catches located on the outer ends of the X-travel carriage and two quick-release catches on the inner sides of the Y-travel carriage. Carefully lift the X- and Z-travel carriages away from the light table.
- (3) Make certain shipping locks at both ends of the Y-travel carriage are disconnected.
- (4) Remove four screws and four washers at the front of light table and four screws, four washers, and carriage spacers at rear of light table that secure the Y-travel carriage to the light table assembly and remove the Y-travel carriage.
- b. Separation of the X-, Y-, and Z-Travel Carriages (fig. 3-4). Before disassembling the X-, Y-, or Z-travel carriages, separate them from each other as outlined below.
- (1) Make certain shipping locks at both ends of the Y-travel carriage are disconnected.

- (2) To separate the X- and 'L-travel carriages from the Y-travel carriage, open two quick-release catches located on the outer ends of the X-travel carriage and two quick-release catches on the inner sides of the Y-travel carriage. Carefully lift the X- and Z-travel carriages away from the light table.
- (3) To separate the Z-travel carriage from the X-travel carriage, proceed as follows:
- (a) Remove two screws securing two cable clamps to the Z-travel carriage housing.
- (b) Remove one screw securing one cable clamp to the X-travel carriage bearing housing.
- (c) Unsolder switch cord leads from terminal block located behind the X-travel carriage bearing housing.
- (d) Separate Z-travel carriage from X-travel carriage by removing four screws and four washers securing Z-travel carriage to the X-travel carriage bearing housing.
- c. Disassembly of the X-Travel Carriage (fig. 3-5).
- (1) Separate the X-travel carriage from the Z-travel carriage. Refer to b(3) above for separation instructions.
- (2) Remove four screws (2) securing two catches (1) to the left and right X-rail support plates (59) and remove catches.
- (3) Remove four screws (4) securing two terminal blocks (3) to the left and right X-rail support plates (59) and remove terminal blocks. Unsolder two wire loads from terminal blocks (3).
- (4) Remove two screws (6) securing carriage control switch bracket (5) to X-travel rail assembly (61).
- (5) Unsolder and tag leads from carriage switch (7) and remove carriage switch from carriage control switch bracket (5).
- (6) Remove two screws (9) securing two bumpers (8) to the X-travel rail assembly (61) and remove two spacers (10) and two bumpers (8).

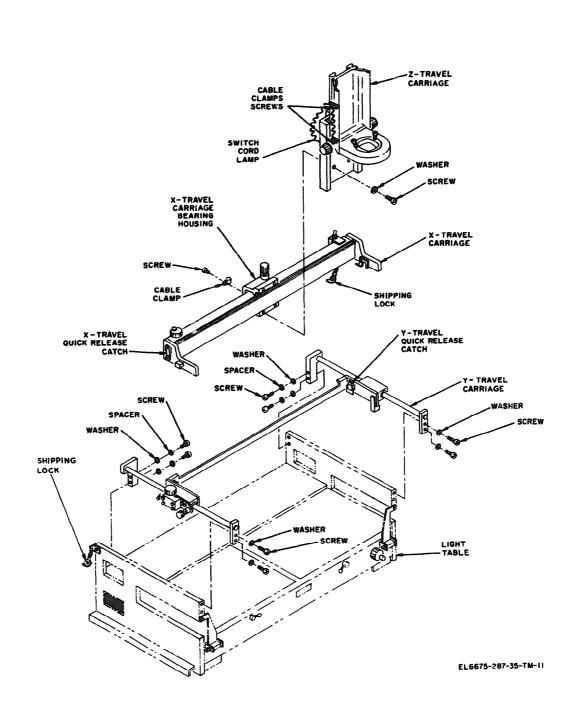
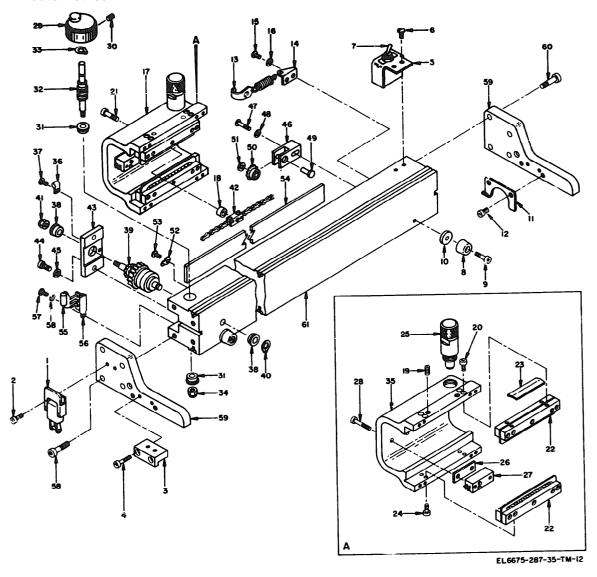


Figure 3-4. Removal and separation of carriage assembly, exploded view.



- 1 Catch (MP1 and MP2) 2 Screw (MP3 through MP6)
- 3 Terminal block (MP7 and MP8)
- 4 Screw (MP9 through MP12)

- MP12)
  5 Carriage control switch bracket (MP13)
  6 Screw (MP14 and MP15)
  7 Carriage switch (S3)
  8 Bumper (MP16 and MP17)
  9 Screw (MP18 and MP19)
  10 Spacer (MP20 and MP21)
  11 X-rail support guide (MP22 and MP23)
  12 Screw (MP24 through MP27)

- MP27)
  13 Catch assembly (MP28)
  14 Spring shipping lock
  bracket (MP29)

- 15 Screw (MP30 and MP31) 16 Washer (MP32 and MP33) 17 X-bearing housing assembly (MP34) 18 Spacer (MP35) 19 Setscrew (MP36 and MP37) 20 Screw (MP38) 21 Screw (MP39) 22 Ball bearing assembly

- 22 Ball bearing assembly (MP40 and MP41)
  23 Bearing backup plate (MP42)
- 24 Screw (MP43) 25 Drag lock assembly (MP44)
- 26 Backup plate (MP45) 27 Brush and housing assembly (MP46) 28 Screw (MP47 and MP48) 29 Knob (MP49)

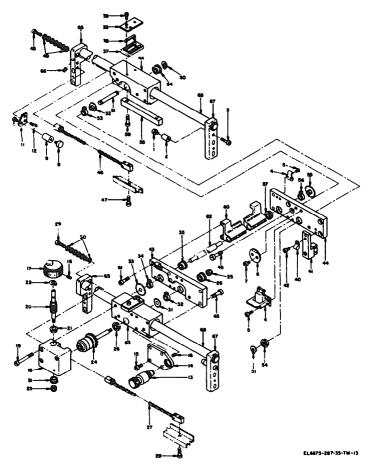
- 30 Setscrew (MP50) 31 Ball bearing (MP51 and M P 5 2)
- 32 Pinion assembly (MP53) 33 Retaining ring (MP54) 34 Nut (MP55)
- X-rail bearing channel (M P 5 6)
- 36 Cable 'clamp (MP57) 37 Screw (MP58) 38 Ball bearings (MP59 and M P 6 0 )
- X-travel clutch assembly (MP61)
- 40 Retaining ring (MP62) 41 Nut (MP63)
- 42 Chain assembly (MP64) 43 Clutch mounting plate (MP65)
- 44 Screw (MP66 and MP67) 45 Washer (MP68 and MP69)

- 46 Sprocket idler block (MP70)
  47 Screw (MP71)
  48 Washer (MP72)
  49 Sprocket idler shaft (MP73)
  50 Sprocket assembly

- 51 Washer (MP75) 52 Ring tongue terminal (E1) 53 Screw (MP76) 54 Bus bar (W2)
- 55 Capacitor (C1) 56 Terminal strip (TB2) 57 Screw (MP77)
- 58 Washer (MP78)
- 58 Washer (MP78) 59 X-rail support plate (MP79 and MP80) 60 Screw (MP81 through MP88) 61 X-travel rail assembly (MP89)

- (7) Remove four screws (12) securing two X-rail support guides (11) to X-rail support plates (59) and remove guides.
- (8) Unhook catch assembly (13) from X-bearing housing assembly (17) and the spring shipping lock bracket (14).
- (9) Remove two screws (15) and two washers (16) securing spring shipping lock bracket (14) to the X-travel rail assembly (61).
- (10) Remove screws (20 and 21) and two setscrews (19) and remove X-bearing housing assembly (17) and spacer (18).
- (11) Remove screw (24) and remove two ball bearing assemblies (22) from the X-rail bearing channel (35) and remove bearing back-up plate (23) and two ball bearing assemblies (22).
- (12) Unscrew drag lock assembly (25) from X-rail bearing channel (35).
- (13) Remove two screws (28) securing backup plate (26) and assembled brush and housing assembly (27) from the X-rail bearing channel (35).
- (14) Remove setscrew (30) and lift knob (29) off pinion assembly (32).
- (15) Remove retaining ring (33) and nut (34) and remove two ball bearings (31) and pinion assembly (32).
- (16) Remove screw (37) securing cable clamp (36) to clutch mounting plate (43) and remove cable clamp.
- (17) Unsolder and tag two white wire leads from capacitor (55).
- (18) Remove retaining ring (40) and nut (41) and remove X-travel clutch assembly (39) and two ball bearings (38).
- (19) Remove chain assembly (42) from sprocket assembly (50).
- (20) Remove clutch mounting plate (43) by removing two screws (44) and two washers (45).
  - (21) Remove screw (47) and washer (48)

- securing sprocket idler block (46) to X-travel rail assembly (61). Separate sprocket idler shaft (49), sprocket assembly (50), washer (51), and sprocket idler block (46).
- (22) Remove ring tongue terminal (52) by removing screw (53) and disconnect wires from bus bar (54).
- (23) Disconnect capacitor (55) from terminal strip (56) to X-travel rail assembly (61).
- (25) Separate two X-rail support plates (59) from X-travel rail assembly (61) by removing eight screws (60).
- d. Disassembly of Y-Travel Carriage (fig. 3-6).
- (1) Separate the X-travel and Z-travel carriages from the Y-travel carriage. Refer to b(1) above for separation procedure.
- (2) Remove two screws (3) securing two bumper spacers (2) and two bumpers (1) to the left and right front Y-rail support blocks (67). Remove bumper spacers and bumpers.
- (3) Remove eight screws (5) securing two strike and catches (4) to the left and right carriage support plates (43 and 44).
- (4) Remove four screws (7) securing X-carriage support guides (6) to the left and right carriage support plates (43 and 44) and remove guides.
- (5) Remove two screws (10) securing two bumpers (8) and two bumper standoffs (9) to bumper plates (11).
- (6) Remove four screws (12) securing bumper plates (11) to the left and right shaft and chain support brackets (65), and remove bumper plates.
- (7) Unscrew drag brake assembly (13) from drag brake plate (14).
- (8) Remove four screws (15) securing drag brake plate (14) to Y-travel bushing housing (63) and remove drag brake plate.
- (9) Remove setscrew (16) and lift knob (17) from Y-travel pinion assembly (20).



- 1 Bumper (MP90 and MP91)
- 2 Bumper spacer (MP92 and MP93)
- 3 Screw (MP94 and MP95)
- 4 Strike and catch (MP96 and MP97) 5 Screw (MP98 through MP105) 6 X-carriage support guide (MP106 and MP107) 7 Screw (MP108 through MP111)
- 8 Bumper (MP112 and MP13)

- MP13)
  9 Bumper standoff (MP114 and MP115)
  10 Screw (MP116 and MP17)
  11 Bumper plate (MP118)
  12 Screw (MP119 through MP122)
  13 Drag brake assembly (MP123)
  14 Drag brake plate
- 14 Drag brake plate (MP124
- 15 Screw (MP125 through MP128) 16 Setscrew (MP129)

17 Knob (MP130)

18 Y-fine feed housing

(MP131)
19 Screw (MP132 through MP134)
20 Y-travel pinion assembly (MP135)

- 21 Ball bearing (MP136 and MP137) 22 Retaining ring (MP138) 23 Nut (MP139)
- 24 Y-travel clutch assembly
- (MP 140)
  25 Nut (MP141)
  26 Ball bearing (MP142
  and MP143)
  27 Chain assembly (MP144)
  28 Screw (MP145)
  29 Screw (MP146)
  60 Weeker (MP146)
- 30 Washer (MP147 through MP153)
- 31 Sprocket (MP154) 32 Hub adjusting clamp (MP155)
- 33 Sprocket (MP156) 34 Hub adjusting clamp (MP157)
- 35 Ball bearing (MP158)

- 36 Connector cover (MP 159) 37 Connector housing (MP160)
- 38 Contact connector angle (MP161 and MP162) 39 Screw (MP163 through MP166)
- 40 Cable clamp (MP167) 41 Brush assembly (MP168) 42 Screw (MP169 and
- 43 Left carriage support plate (MP171)
  44 Right carriage support plate (MP172)
  45 Screw (MP173 through MP180)

- Chain assembly (MP181) Screw (MP182) Screw (MP183) Washer (MP184 through MP190)
- Retaining ring (MP191) Right-hand fine feed mechanism shaft
- (MP192) 52 Sprocket (MP193) 53 Hub adjusting clamp

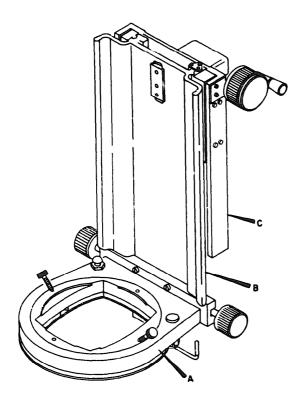
- 54 Ball bearing (MP195) 55 Sprocket (MP196) 56 Hub, adjusting clamp (MP197)
- 57 Bail bearing (MP198 and MP199)
- 58 Stud mounting bar
- (MP200) 59 Screw (MP201 through MP204)
- 60 Stabilizer rod support (MP205)
- 61 Screw (MP206 through MP209)

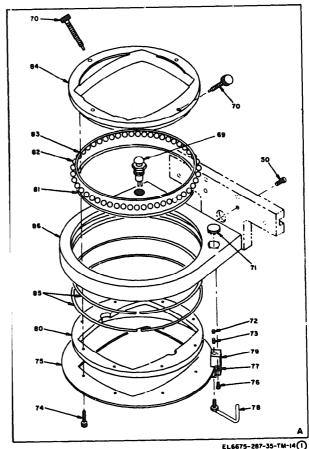
- 62 Stabilizer rod (MP210)
  63 Left Y-travel bushing
  housing (MP211)
  64 Right Y-travel bushing
  housing (MP212)
  65 Left and right shaft and
  chain support brackets
  (MP213 and MP214)
  66 Setscrew (MP215 and
  MP216)
- MP216) 67 Left and right front Y-
- rail support blocks (MP217 and MP218) 68 Ball bushing shaft (MP219 and MP220)

- (10) Remove three screws (19) securing Y-fine feed housing (18) to Y-travel bushing housing (63) and remove fine feed housing.
- (11) Remove retaining ring (22) and nut (23) and lift out Y-travel pinion assembly **(20)** and ball bearings **(21)** from Y-fine feed housing (18).
  - (12) Remove nut (25) and pull out Y-travel clutch assembly (24) and ball bearings (26) from Y-travel bushing housing (63).
  - (13) Remove screw (28), screw (29), and seven washers (30) and lift chain assembly (27) off sprockets (31 and 33).
  - **(14)** Remove hub adjusting clamp (32) and pull sprocket **(31)** off Y-travel clutch assembly (24).
  - (15) Remove hub adjusting clamp (34) securing sprocket (33) to stabilizer rod (62). Remove sprocket (33) and ball bearing (35).
  - (16) Remove connector cover (36), connecting housing (37), and two contact connector angles (38) from the left and then from the right Y-travel bushing housings (63 and 64) by removing four screws (39). Unsolder and tag wires connected to the contact connector angles (38).
  - (17) Remove two screws (42) securing cable clamp (40) and brush assembly (41) to right carriage support plate (44) and remove cable clamp and brush assembly.
  - (18) Remove eight screws (45) securing the left and right carriage support plates (43 and 44) to the left and right Y-travel bushing housings (63 and 64), and separate left and right Y-travel bushing housings from the left and right carriage support plates (43 and 44).
  - (19) Remove screw (47), screw (48), and seven washers (49), and remove chain assembly (46).
  - (20) Remove retaining ring (50) and remove right-hand fine feed mechanism shaft (51). Disconnect hub adjusting clamp (53) and remove sprocket (52) and ball bearing (54) from right-hand tine feed mechanism shaft (51).

- (21) Remove hub adjusting clamp (56) from stabilizer rod (62) and pull sprocket (55) and ball bearings (57) off stabilizer rod **(62)**.
- (22) Remove one stud mounting bar (58) from the left Y-travel bushing housing (63) and one stud mounting bar (58) from the right Y-travel bushing housing **(64)** by removing four screws (59).
- (23) Remove four screws (61) securing stabilizer rod support (60) to the left and right carriage support plates (43 and **44**) and remove stabilizer rod support (60) and stabilizer rod (62).
- (24) Remove left and right shaft and chain support brackets (65) from ball bushing shafts (68) by removing setscrews (66).
  - e. Disassembly of Z-Travel Carriage (fig. 3-7).
- (1) Separate Z-travel carriage from X-travel carriage (b(2) above).
- (2) Remove stop pin (1), from screw (3); then, remove nut (2) from screw (3).
- (3) Remove two screws (4) and anchor plate (5).
- (4) Loosen two screws (9) to put slack in chain (49).
- (5) Turn spinner knob (24) until connecting link (6) on chain (49) is accessible; then, disconnect connecting link (6).
- (6) Lift chain (49) from sprocket (8); turn spinner knob (24) until chain (49) is out from between sprockets (15) and (21).
- (7) Remove push nut fastener (7) from idler slide block assembly (10).
- (8) Remove sprocket (8) from idler slide block assembly (10).
- (9) Remove two screws (9); remove idler slide block assembly (IO).
- (10) Separate slide support assembly (11) from support assembly (12).
  - (11) Remove bearing magazine (18) from

#### TM 11-6675-287-35





- 1 Stop pin (MP223) 2 Nut (MP221) 3 Screw (MP222) 4 Screw (MP224 and MP225)
- MP225)
  5 Anchor plate (MP226)
  6 Connecting link (MP227)
  7 Push nut fastener (MP228)
  8 Sprocket (MP229)
  9 Screw (MP230 and

- MP231)
- 10 Idler slide block assembly (MP232)
- 11 Slide support assembly (MP233)
- (MP233) 12 Support assembly (MP234) 13 Screw (MP235) 14 Pin (MP236)

- 15 Sprocket (MP237)

- 15 Sprocket (MP237)
  16 Retaining ring (MP238)
  17 Spindle (MP239)
  18 Bearing magazine
  (MP240)
  19 Screw (MP241)
  20 Pin (MP242)
  21 Sprocket (MP242)

- 21 Sprocket (MP243) 22 Screw (MP244 and MP245)
- 23 Screw (MP246 through MP249)

- 24 Spinner knob (MP250)

- 25 Retaining ring (MP251) 26 Bearing (MP252) 27 Bracket (MP253) 28 Bearing (MP254)
- 29 Drive assembly housing (MP255)
  30 Screw (MP256 through MP258)
- 31 Worm gear (MP259) 32 Miniclutch housing
- (MP260)

- (MP260)
  33 Miniclutch assembly
  (MP261)
  34 Key (MP262)
  35 Shaft (MP263)
  36 Bearing (MP264)
  37 Screws (MP265 through
  MP268)
  39 Ontice heal pads (MP265

- MP268)
  38 Optics heel pads (MP269 and MP270)
  39 Screw (MP271 through MP278)
  40 Screw (MP279 through MP282)
  41 Washers (MP283 through MP286)
  42 Ball hearing assembly
- 42 Ball bearing assembly (MP287 and MP288) 43 Bearing shim (MP289) 44 Bearing backup plate (MP290)

- 45 Setscrew (MP291 through
- MP294)
  46 Screw (MP295 through MP298)
- MP298)
  47 Ball bearing (MP299)
  48 Worm gear housing or ver
  (MP300)
  49 Chain (MP301)
  50 Screw (MP302 through
  MP305)
  51 Knob (MP306 and
  MP307)
  52 Knob sleeves (MP308

- 52 Knob sleeves (MP308 and MP309) 53 Screw (MP310 through MP313)

- and MP315)
  55 Bearing (MP316 through MP319)
  56 Pin (MP320)
  57 Worm gear (MP321)
  58 Shaft (MP322)
  59 Eall bearing (MP323)
  60 Worm gear housing (MP324)
  61 Screws (MP325 through MP327)
  62 Washers (MP328 and MP329)
- MP329)
- 63 Worm gear (MP330) 64 Sprocket (MP331)

Figure 3-7 (1). Disassembly of Z-travel carriage, exploded view (part 1 of 3).

- 54 Bearing caps (MP314 and MP315)

- 65 Setscrew (MP332) 66 Shim (MP333) 67 Spacer (MP334) 68 Shaft (MP335)

- 68 Shaft (MP335)
  69 Switch (S4)
  70 Knurled screw (MP336
  and MP337)
  71 Button plug (MP338)
  72 Setscrew (MP339)
  73 Setscrew (MP340)
  74 Screw (MP341 through
  MP348)
  75 Disc brake (MP349)
- 75 Disc brake (MP349) 76 Screws (MP350 and MP351)
- 77 Bearing stop spring (MP352)
- 78 Lock lever (MP353)
- 79 Optics ring lock (MP354) 80 Ring bearing takeup (MP355)
- 81 Lower inner bearing race (MP356) 82 Balls (MP357 through
- MP427)
- 83 Upper inner bearing race (MP428)
- 84 Inner optics ring (MP429) 85 Outer bearing race (MP430 and MP431)
- 86 Outer optics ring (MP432)

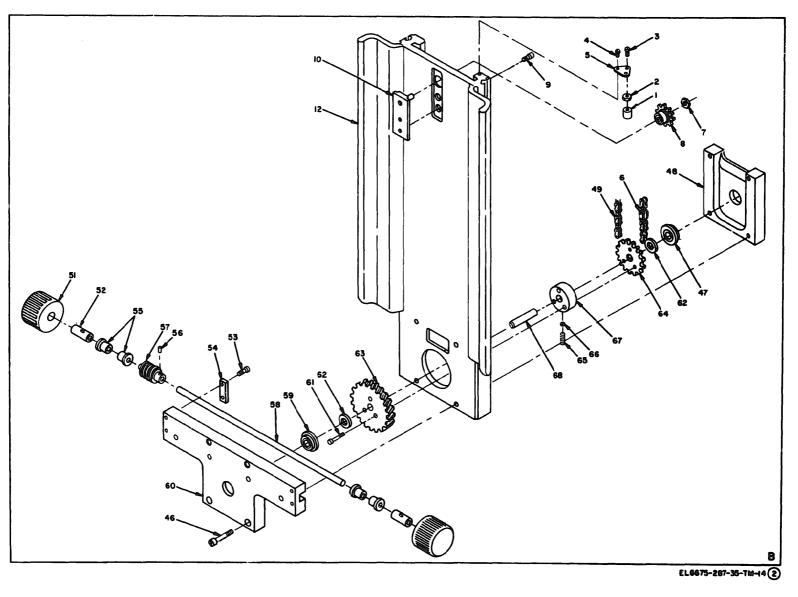


Figure 3-72. Disassembly of Z-travel carriage, exploded view (part 2 of 3).

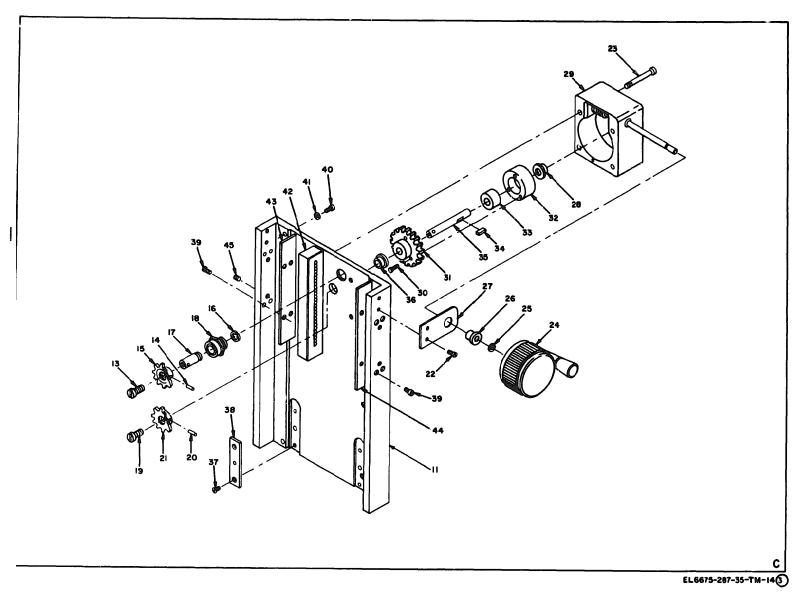
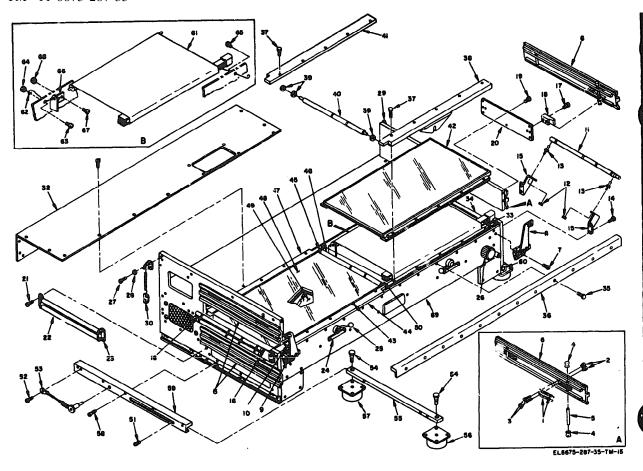


Figure 3-7**3**). Disassembly of Z-travel carriage, exploded view (part 3 of 3).

- slide support assembly **(11)**; then, remove screw (13), pin (14), sprocket (15), retaining ring (16), and spindle (17).
- (12) Remove screw (19), pin (20), and sprocket (21) from shaft (35).
- (13) Remove two screws (22) from bracket (27).
- (14) Remove four screws (23); then, remove worm gear/clutch assembly with drive assembly housing (29) from slide support assembly (11).
- (15) Loosen setscrew and remove spinner knob (24) from shaft of drive assembly housing (29).
- (16) Remove retaining ring (25), bearing (26), and bracket (27) from shaft of drive assembly housing (29).
- (17) Remove worm gear/clutch assembly from drive assembly housing (29); then, remove bearing (28).
- (18) Remove three screws (30); then, disassemble worm gear (31) and miniclutch housing (32) from shaft (35) and miniclutch assembly (33).
- (19) Remove miniclutch assembly (33) and key (34) from shaft (35).
- (20) Remove bearing (36) from slide support assembly (11).
- (21) Remove four screws (37) and two optics heel pads (38).
- (22) Remove eight screws (39), four screws (40), and four washers (41); then, remove two ball bearing assemblies (42), bearing shim (43), and bearing backup plate (44).
  - (23) Remove four setscrews (45).
- (24) Remove four screws (46); then, remove worm gear housing cover (48), ball bearing (47), and chain (49).
- (25) Remove outer optics ring (86) with worm gear housing (60) attached.
  - (26) Remove four screws (50) and separate

- outer optics ring (86) from worm gear housing (60).
- (27) Loosen setscrews in knobs (51) and remove two knobs (51) and two knob sleeves **(52)**.
- (28) Remove four screws (53), two bearing caps (54), four bearings (55), pin (56), worm gear (57), and shaft (58).
- (29) Remove ball bearing (59) from worm gear housing (60).
- (30) Remove three screws (61), two washers (62), worm gear (63), and sprocket (64).
- (31) Remove setscrew (65), shim (66), spacer (67), and shaft (68) from support assembly (12).
- (32) Remove switch (69) from outer optics ring (86).
- (33) Remove two knurled screws (70) from outer optics ring (86).
- (34) Remove button plug (71) and setscrews (72 and 73).
- (35) Remove eight screws (74) and disc brake (75). Hold assembly together when screws (74) are removed.
- (36) Remove two screws (76), bearing stop spring (77), optics ring lock (79), and lock lever (78).
- (37) Turn remaining assembly over on a flat surface; then, remove ring bearing takeup (80) and lower inner bearing race (81).
- (38) Turn remaining assembly on its side and remove 71 balls (82).
- (39) Remove inner optics ring (84) and upper inner bearing race (83).
- (40) Remove outer upper and lower bearing races (85) from outer optics ring (86).
  - f. Disassembly of Light Table (fig. 3-8).
- (1) Remove X-, Y-, and Z-travel carriages from light table (61) (*a* above).
  - (2) Remove four quick-release T-rails (6)



- 1 Spring (MP433 and MP434) 2 Screw (MP435 and
- MP436) MP436)
  3 Spring standoff (MP437 and MP438)
  4 Mounting knob (MP439 and MP440)
  5 Spring pin (MP441)
  6 T-rail (MP442)
  7 Screw (MP443 and MP444)
  8 Brace assembly—right

- 8 Brace assembly—right (MP445) 9 Screw (MP446 and MP447)

- 10 Brace assembly—left (MP448) 11 Upper roller (MP449 through MP452) 12 Locknut (MP453 through MP460)
- 13 Ball screw (MP461 through MP468) 14 Screw (MP469 through MP476)
- MP476)
  15 Roller bracket—right
  (MP477 and MP478)
  16 Roller bracket—left
  (MP479 and MP480)
  17 Screw (MP481 through
  MP488)

- 18 Strike (MP489 through MP492)

- MP492)
  19 Screw (MP493 through MP500)
  20 T-rail bracket (MP501 and MP502)
  21 Screw (MP503 through MP510)
- 22 Lower roller (MP51) through MP514) 23 Roller bracket (MP515 through MP518) 24 Screw (MP519 and MP520)
- MP520)
  25 Stage shifting lever
  (MP521 and MP522)
  26 Knob (MP523)
  27 Screw (MP524 through
  MP527)
  28 Washer (MP528 through

- 28 Washer (MP528 through MP531) 29 Shipping lock assembly— right (MP532) 30 Shipping lock assembly— left (MP533) 31 Screw (MP534 through MP557)

- 32 Power box cover (MP558)

- 33 Screw (MP559 and MP560) 34 Bus bar (W1) 35 Screw (MP561 through MP572) 36 Front retainer (MP573) 37 Screw (MP574 through MP583) 38 Front stage guide—righ
- 38 Front stage guide—right (MP584) 39 Washer (MP585 through MP587 40 Roller (MP588)
- 41 Rear stage guide—right (MP589)
- 42 Stage glass assembly— right (MP590) 43 Screws (MP591 through MP600)
- 44 Front stage guide—left (MP601) 45 Washer (MP602 through
- MP604)
  46 Roller (MP605)
  47 Rear stage guide—left (MP606)
- 48 Stage glass assembly— left (MP607) 49 Light grid-left (MP608)

- 50 Light grid—right (MP609) 51 Spring pin (MP610 and MP611) 52 Screw (MP612 and MP613) 53 Quick-release pin assembly (MP614 and MP615)

- MP615)
  54 Screw (MP616 through MP619)
  55 Slide (MP620 and MP621)
- 56 Front shock mount (MP622 and MP623)
- 57 Rear shock mount (MP624 and MP625) 58 Screw (MP626 through MP635)
- 59 Retainer slide—left (MP636)
- (MP636)
  60 Retainer slide—right
  (MP637)
  61 Left and right light table
  shades (MP638/MP639)
  62 Sheave wire (MP640/
  MP643)
  63 Screw (MP644/MP647)
  64 Nut (MP648/MP651)
  65 Screw (MP651/MP655)
  66 Bracket (MP656/MP657)
  67 Screw (MP658/MP665)
  68 Nut (MP666/MP673)
  69 Light table (MP674)

- and disassemble each T-rail by removing two springs (1), two screws (2). two spring standoffs (3), two mounting knobs (4). and spring pin (5) from T-rail (6).
- (3) Release fastener; then, pivot brace assembly (8) away from stud on right end plate assembly.
- (4) Remove two screws (7) from right brace assembly (8); then, remove right brace assembly (8).
- (5) Release fastener; then, pivot brace assembly (10) away from stud on left and plate assembly.
- (6) Remove two screws (9) from left brace assembly (10); remove left brace assembly (10).
- (7) Remove four upper rollers (11), eight locknuts (12), eight ball screws (13), eight screws (14), two right roller brackets (15), and two left roller brackets (16).
- (8) Remove eight screws (17) and four strikes (18) from T-rail brackets (20).
- (9) Remove eight screws (19) and two Tran brackets (20).
- (10) Remove eight screws (21), four lower rollers (22), and four roller brackets (23).
- (11) Remove two screws (24) and two stage shifting levers (25).
  - (12) Loosen setscrew; remove knob (26).
- (13) Remove four screws (27), four washers (28), right shipping lock assembly (29) and left shipping lock assembly (30) from ends of light table (69).
- (14) Remove 24 screws (31); remove power box cover (32).
- (15) Remove two screws (33) and bus bar (34).
- (16) Remove 12 screws (35) and front retainer (36).
- (17) From right side, remove 10 screws (37), front stage guide (38), three washers (39), roller

- (40), rear stage guide (41), and stage glass assembly (42).
- (18) From left side, remove 10 screws (43), front stage guide (44), three washers (45), roller (46), rear stage guide (47). and stage glass assembly (48).
- **(19) Place maskassemblies in extreme rear**ward position.
- (20) Disconnect wires to left light grid (49); then, remove left **light grid (49).**
- (21) Disconnect wires **to right light grid** (50); then, remove right light grid (50).
  - (22) Remove two spring pins (51).
- (23) Remove two screws (52) and two quick-release pin assemblies (53).
  - (24) Slide light table (69) from slides (55).
- (25) Remove four screws (54); then, separate two slides (55) from two front shock mounts (56) and two rear shock mounts (57).
- (26) Remove 10 screws (58), left retainer slide (59), and retainer slide (60) from light table (69).
- (27) On right side of light table, remove screw (63), nut (64). and screw (65) securing sheave wire (62) to light table (69).
- (28) Remove right-hand light table shade (61) by slipping end stud from bracket (66).
- (29) Remove bracket (66) from light table (69) by removing two screws (67) and two nuts (68).
- (30) To remove left-hand light shade (61) and associated ports, repeat steps (27) through (29) above, on left side of light table (69).
- g. Power *Box*. The power box may be disassembled in any sequence. A specific procedure is not required to replace the parts shown **in** figure 3-9 once the cover is removed. To remove the cover, remove 24 screws (31, fig. 3-8) securing power box cover (32) to light table (69).

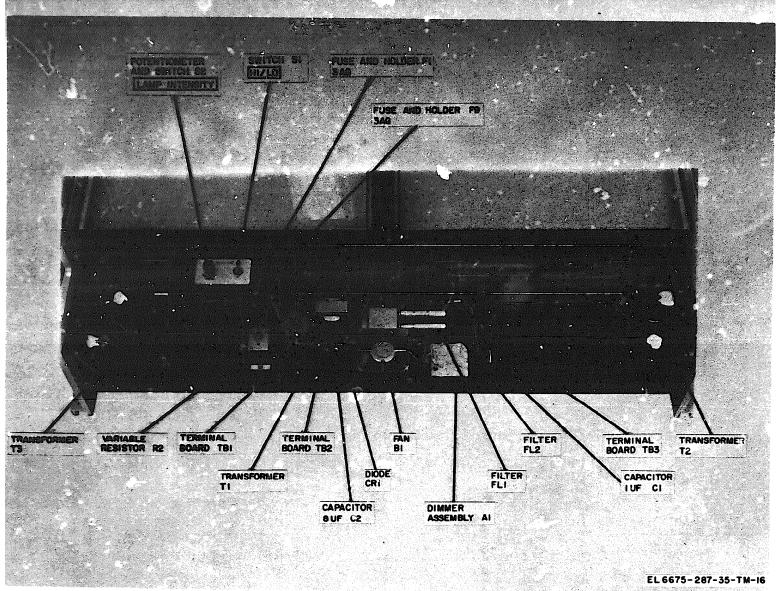


Figure 3-9. Electrical power box, location of parts. 3-22

### 3-16. Disassembly of Zoom 240

Do not disassemble or lubricate the Zoom 240. Return the Zoom 240 to the manufacturer for repair. Cleaning instructions are given in paragraph 3-17d.

### 3-17. Repair and Cleaning

### a. Circulating Ball Bearing Assemblies.

### (1) Replacing missing ball bearings.

- (a) Remove the circulating ball bearing assembly that is missing ball bearings by disassembling the applicable carriage (para 3-15c, *d.* or e).
- (b) Replace the missing ball bearings within the circulating ball bearing assembly by placing the replacement ball bearing along the ball bearing retainer and applying slight pressure to the ball bearing and the ball bearing retainer.
- (c) Replace the circulating ball bearing assembly and reassemble the applicable carriage (para 3-20b, c, or d).

### (2) Cleaning.

- (a) Remove the circulating ball bearing assembly by disassembling the applicable carriage (para 3-15c, d, or e).
- (b) Rinse the circulating ball bearing assembly with xylene (FSN 6810-598-6610).

### **CAUTION**

Do not use pressurized air to blow moisture from the assemblies.

- (c) Shake the circulating ball bearing assembly lightly to remove excess xylene and wipe with a clean, lint free cloth (FSN 8305-170-5062).
- (d) Replace the circulating ball bearing assembly and reassemble the applicable carriage (para 3-20b, c, or d).

### WARNING

Do not use cleaning compound near an open flame; an explosion may occur. Use cleaning compound only in an area which has adequate ventilation.

### b. Drag Brake Spring.

- (1) Disassemble the drag brake housing (25, *fig. 3-5*) or (13, fig. 3-6).
- (2) Remove the defective spring and replace with a new part.
- (3) Assemble the drag brake housing and replace the housing on the applicable carriage (para 3-20c or *d*).
- c. Dimmer Assembly. Dimmer assembly Al (fig. 3-9) is a non-repairable item. If a malfunction occurs, the entire assembly must be replaced. To replace the dimmer assembly, remove the retaining screws, and tag and disconnect all leads. Do not discard the defective dimmer assembly until the new dimmer assembly is installed; use the tags and the wiring diagram (fig. 6-3) as a guide.

### d. Zoom 240 Cleaning Procedures.

- (1) Use a soft camel's-hairbrush (FSN 8020-245-4509) or hand blower (FSN 5120-254-4612) and remove all loose dirt and dust from the zoom lens assembly and its respective objective lens cell.
- (2) If foreign matter still remains, moisten a cotton swab (FSN 6515-303-8250) with lens cleaner (FSN 6760-408-5175). With a circular motion (starting from the edge of the glass and working toward the center) gently spread the lens cleaner over the (optical surface being cleaned.

### **CAUTION**

Do not use a lens tissue that contains silicone to clean the optical surfaces. Any residue left on the optical surfaces by this kind of lens tissue could affect the performance of the optics.

(3) Carefully dry the cleaned optical parts with clean lens tissue (FSN 6640-393-2090); use the same circular motion described in (2) above.

### WARNING

Prolonged breathing of cleaning compound is dangerous; make sure that adequate ventilation is provided. Cleaning compound is flammable; do not use near a flame. Avoid contact with the



skin; wash off any that spills on the hands.

### **CAUTION**

Do not get cleaning compound on the lenses since it will effect their coating of reflection-reducing film.

#### 3-18. Lubrication

Lubrication of the rollfilm viewer can be accomplished at the organizational level. Refer to TM 11-6675-287-12.

### 3-19. Adjustment

### a. Terminal Blocks.

- (1) Separate X- and Z-travel carriages from Y-travel carriage (para *3-15b* (2)).
- (2) Loosen locknuts; then, adjust length of contact pins protruding from terminal blocks (3, fig. 3-5), to 11/32 plus or minus 1/32, from the base of the terminal blocks to the end of the contact pins. Tighten locknuts.
- (3) Replace X- and Z-travel carriages on Y-travel carriage (para 3-20e (2)).

### b. Film Loop Accumulator.

- (1) Place roll film viewer in operating position.
- (2) Remove 24 screws (31, fig. 3-8); then, remove power box cover (32, fig. 3-8).
- (3) Rotate FILM TAKEUP knob to the extreme clockwise position until it stops.
- (4) Loosen three accumulator shaft **coup**lings; one in right rear of electrical power box and two under the viewing stages.
- (5) Manually retract the film loop rollers to their stops.
- (6) Hold the film loop rollers in their stop position and tighten three accumulator shaft couplings.
- (7) Replace power box cover (32, fig. 3-8) and install 24 screws (31, fig. 3-8).

### 3-20. Reassembly of Light Table Assembly

a. Reassembly of Light Table (fig. 3-8).

- (1) Position left bracket (66) on light table and install two screws (67) and two nuts (68).
- (2) Position right bracket (66) on light table and install two screws (67) and two nuts (68).
- (3) Position left light table shade (61) by slipping end stud into bracket (66).
- (4) Position right light table shade (61) by slipping end stud into bracket (66).
- (5) Position left sheave wire (62) capturing sheaves of light table shade (61) and install screw (65), screw (63), and nut (64) to light table (69).
- (6) Position right sheave wire (62) capturing sheaves of light table shade (61) and install screw (65), screw (63), and nut (64) to light table (69).
- (7) Position left retainer slide (59) on light table (61) and install five screws (58).
- (8) Position right retainer slide (60) on light table (61) and install five screws (58).
- (9) Place two front shock mounts (56) on slides (55) and install two screws (54).
- (10) Place two rear shock mounts (57) on slides (55) and install two screws (54).
  - (11) Slide light table (61) on slides (55).
- (12) Install two quick-release pin assemblies (53) and install two screws (52).
  - (13) Install two spring pins (51).
- (14) Install right light grid (50) and connect wires.
- (15) Install left light grid (49) and connect wires.
- (16) Place left stage glass assembly (48) in position; and assemble left rear stage guide (47), left front stage guide (44) (engaging shift mechanism lever in light table (61)), three washers (45) (two washers toward the rear), and roller (46).
- (17) Install 10 screws (43) to secure left stage assembly to light table (61).

- (18) Place right stage glass assembly (42) in position; and assemble right rear stage guide (41), right front stage guide (38) (engaging shift mechanism lever in light table (61)), three washers (39) (two washers toward the rear), and roller (40).
- (19) Install 10 screws (37) to secure left stage assembly to light table (61).
- (20) Position front retainer (36) on light table (61) and install 12 screws (35).
- (21) Place bus bar (34) in proper position and install two screws (33).
- (22) Place power box cover (32) on light table (61) and install 24 screws (31).
- (23) Install left shipping lock assembly (30) and secure with two washers (28) and two screws (27).
- (24) Install right shipping lock assembly (29) and secure with two washers (28) and two screws (27).
- (25) Place knob (26) in position and tighten setscrew to secure in place.
- (26) Place two stage shifting levers (25) in position and install two screws (24).
- (27) Place four lower rollers (22) in four roller brackets (23) and install with eight screws (21).
- (28) Position two T-rail brackets (20) on light table (61) and install eight screws (19).
- (29) Place four strikes (18) on T-rail brackets (20) and secure in place with eight screws (17).
- (30) Install two right roller brackets (15) and two left roller brackets (16) and secure in place with eight screws (14).
- (31) Install eight ball screws (13), eight locknuts (12), and four upper rollers (11).
- (32) Position left brace assembly (10) on light table (61), install two screws (9); then, pivot brace assembly (10) up to engage stud on light table (61).
  - (33) Position right brace assembly (8) on

- light table (61), install two screws (9); then, pivot brace assembly (8) up to engage stud on light table (61).
- (34) Install spring pin (5), two mounting knobs (4), two spring standoffs (3), two screws (2), and two springs (1) on each T-rail (6).
- (35) Install four assembled quick-release Trails (6) on light table (61).
- (36) Install X-, Y-, and Z-travel carriages on light table (61). Refer to f below.
  - b. Reassembly of Z-Travel Carriage (fig. 3-7).
- (1) Install outer upper and lower bearing races (85) in outer optics ring (86).
- (2) Install upper inner bearing race (83) on inner optics ring (84); then, place inner optics ring (84) in outer optics ring (86).
- (3) Turn assembled optics rings (84 and 86) upside down; then install 71 balls (82).
- (4) Install lower inner bearing race (81) and ring bearing takeup (80). Leave assembly in inverted position.
- (5) Assemble lock lever (78) and optics ring lock (79), position in outer optics ring (86); then, install bearing stop spring (77) and two screws (76).
- (6) Insert disc brake (75); then, install eight screws (74).
- (7) Install setscrews (72) and (73); then, install button plug (71).
- (8) Install two knurled screws (70) in outer optics ring (86).
- (9) Install switch (69) in outer optics ring (86).
- (10) Place spacer (67) on shaft (68) and secure in place with shim (66) and setscrew (65); then, place assembly in hole in support assembly (12).
- (11) Place sprocket (64) and worm gear (63) on shaft (68) and install three screws (61).

- (12) Place two washers (62) on each end of shaft (68).
- (13) Install ball bearing (59) in worm gear housing (60).
- (14) Install worm gear (57) on shaft (58) and secure in place with pin (56).
- (15) Install four bearings (55) on shaft (58); then, position in worm gear housing (60) and secure with two bearing caps (54) and four screws (53).
- (16) Place two knob sleeves (52) on shaft (58); then, install two knobs (51) and secure in place by tightening setscrews in knobs (51).
- (17) Position outer optics ring assembly (86) and worm gear housing (60); then, secure together by installing four screws (50).
- (18) Place assembly of sprocket (64) and worm gear (63) in worm gear housing (60).
  - (19) Place chain (49) on sprocket (64).
- (20) Install ball bearing (47) in worm gear housing cover (48).
- (21) Place worm gear housing cover (48) in position and install four screws (46).
  - (22) Install four setscrews (45).
- (23) Position bearing backup plate (44), bearing shim (43), two ball bearing assemblies (42); then, secure by installing eight screws (39), four washers (41), and four screws (40).
- (24) Position two optics heel pads (38) and secure with four screws (37).
- (25) Install bearing (36) in slide support assembly (11).
- (26) Place key (34) in shaft (35); then, install miniclutch assembly (33).
- (27) Place miniclutch housing (32) and worm gear (31) on shaft (35), and secure with three screws (30).
- (28) Install bearing (28) in drive assembly housing (29); then, place worm gear/clutch assembly in housing (29).

- (29) **Install** bearing (26) in bracket (27); then, **place** on shaft of drive assembly housing (29) and install retaining ring (25).
- (30) Place spinner knob (24) on shaft of drive assembly housing (29) and secure with setscrew in knob (24).
- (31) Position assembled drive assembly housing (29) on slide support assembly (11) and install four screws (23).
- (32) Position bracket (27) on slide support assembly (11) and install two screws (22).
- (33) Install sprocket (21) on shaft (35); then, install pin (20) and screw (19).
- (34) Assemble retaining ring (16), sprocket (15), pin (14), and screw (13) on spindle (17); then, place in bearing magazine (18).
- (35) Assemble slide support assembly (11) to support assembly (12); then, remove slack by adjusting four setscrews (45).
- (36) Place idler slide block assembly (10) in lowest position and loosely install two screws (9).
- (37) Place sprocket (8) on shaft of idler slide block assembly (10); then, install push nut fastener (7).
- (38) Place chain (49) over sprocket (8); then, feed chain (49) between sprockets (15) and (21).
- (39) Connect connecting link (6) on chain (49).
- (40) Pull up on sprocket (8) to remove all slack in chain (49); then, tighten two screws (9).
- (41) Install anchor plate (5) and two screws (4).
- (42) Place stop in (1) on screw (3); then, insert screw (3) in hole in anchor plate (5) and secure with nut (2).
- (43) Install Z-travel carriage on X-travel carriage (e(1) below).
- c. Reassembly of Y-Travel Carriage (fig. 3-6).

- (1) Secure left and right shaft and chain support brackets (65). on ball bushing shafts (68) with setscrews (66).
- (2) Secure stabilizer rod support (60) to the left and right carriage support plates (43 and 44) with four screws (61). Mount stabilizer rod (62) in stabilizer rod support (60).
- (3) Secure stud mounting bars (58) to the left and right Y-travel bushing housings (63 and 64) with four screws (59).
- (4) Place ball bearings (57) and sprocket (55) on right side of stabilizer rod (62) and secure with hub adjusting clamp (56).
- (5) Place sprocket (52) on right-hand fine feed mechanism shaft (51) and secure with hub adjusting clamp (53).
- (6) Mate left and right carriage support plates (43 and 44) to the left and right Y-travel bushing housings (63 and 64). Make certain that right-hand fine feed mechanism shaft (51) is inserted through hole in Y-travel bushing housing (64).
- (7) Place ball bearing (54) on right-hand fine feed mechanism shaft (51) and secure fine feed mechanism shaft to right Y-travel bushing housing (64) with retaining ring (50).
- (8) Place chain assembly (46) on sprockets (52 and 55) and secure one end of chain assembly to left and right shaft and chain support bracket (65) with seven washers (49) and screw (48).
- (9) Secure the other end of chain assembly (46) with screw (47).
- (10) Secure mated left and right support plates (43 and 44) to left and right Y-travel bushing housings (63 and 64), respectively, with eight screws (45).
- (11) Secure brush assembly (41) and cable clamp (40) to right carriage support plate (44) with two screws (42).
- (12) Correctly solder two wires to the contact connector angles (38) as indicated by tags.
  - (13) Secure contact connector angles (38),

- connector housing (37), and connector cover (36) to the left Y-travel bushing housing (63) and then to the right Y-travel bushing housing (64) with four screws (39).
- (14) Place ball bearings (35) and sprocket (33) on left side of stabilizer rod (62) and secure with hub adjusting clamp (34).
- (15) Secure sprocket (31) with hub adjusting clamp (32) on Y-travel clutch assembly (24).
- (16) Place chain assembly (27) on sprockets (31 and 33) and secure one end of chain assembly to left and right shaft and chain support bracket (65) with seven washers (30) and screw (29).
- (17) Secure other end of chain assembly with screw (28).
- (18) Insert left Y-travel clutch assembly (24) into Y-travel bushing housing (63) and secure with nut (25).
- (19) Secure ball bearings (21) and pinion assembly (20) to Y-fine feed housing (18) with retaining ring (22) and nut (23).
- (20) Secure Y-fine feed housing (18) to Y-travel bushing housing (60) with three screws (3).
- (21) Secure knob (17) on Y-travel pinion assembly (20) with setscrew (16).
- (22) Secure drag brake plate (14) to left Y-travel bushing housing (63) with four screws (15).
- (23) Screw drag brake assembly (13) into drag brake plate (14).
- (24) Secure bumper plates (11) to the left and right shaft and chain support brackets (65) with four screws (12).
- (25) Secure X-carriage support guides (6) to the left and right carriage support plates (43 and 44) with four screws (7).
- (26) Secure two strike and catches (4) to the left and right carriage support plates (43 and 44) with eight screws (5).

- (27) Secure two bumpers (1) and two bumper spacers (2) to the left and right front Y-rail support blocks (67) with two screws (3).
- (28) Join the Y-travel carriage to the X- and Z-travel carriages as outlined in e(2) below.
  - d. Reassembly of X-Travel Carriage (fig. 3-5).
- **(1)** Secure two X-rail support plates (59) to X-travel rail assembly (61) with eight screws (60).
- (2) Secure terminal strip (56) to X-travel rail assembly **(61)** with washer (58) and screw **(57)**.
- **(3)** Solder leads of capacitor (55) to terminal strip (56).
- (4) Connect wires to bus bar (54) and secure ring tongue terminal (52) with screw (53).
- (5) Assembly sprocket idler shaft (49), sprocket assembly (50), washer **(51)**, and sprocket idler block (46) and secure assembled parts to X-travel rail assembly **(61)** with washer (38) and screw (47).
- (6) Secure clutch mounting plate (43) to X-travel rail assembly **(61)** with two washers **(45)** and two screws (44).
- (7) Mount chain assembly **(42)** on sprocket assembly (50).
- (8) Assemble ball bearings (38) on X-travel clutch assembly (39). Insert X-travel clutch assembly through clutch mounting plate (43) and secure the X-travel clutch assembly to the clutch mounting plate and the X-travel rail assembly (61) with retaining ring (40) and nut (41).
- (9) Solder two white wire leads to capacitor (55).
- **(10)** Secure cable clamp (36) to clutch mounting plate (43) with screw (37).
- (11) Assemble ball bearings (31) on pinion assembly (32). Secure pinion assembly to X-travel rail assembly (61) with retaining ring (33) and nut (34).

- (12) Secure backup plate (26) and assembled brush and housing assembly (27) to the X-rail bearing channel (35) with two screws (28).
- (13) Screw drag lock assembly (25) into X-rail bearing channel (35).
- (14) Secure two ball bearing assemblies (22) and bearing backup plate (23) to X-rail bearing channel (35) with screw (23) and screws (20 and 21). Screws (20 and 21) shall be loosely tightened.
- (15) Mount X-bearing housing assembly (17) on X-travel rail assembly (61) and secure with two setscrews (19). Tighten screws (20 and 21).
- (lb) Secure spring shipping lock bracket (14) to X-travel rail assembly **(61)** with two washers (16) and two screws (15).
- (17) Hook catch assembly (13) to the X-bearing housing assembly (17) and the spring shipping lock bracket (14).
- (18) Secure two X-rail support guides (11) to X-rail support plates (59) with four screws (12).
- (19) Secure two spacers (10) and two bumpers (8) to X-travel rail assembly **(61)** with two screws (9).
- (20) Solder carriage switch (7) leads to terminals and mount and secure carriage switch (7) on carriage control switch bracket (5).
- (21) Secure carriage control switch bracket (5) to X-travel rail assembly (61) with two screws (6).
- (22) Secure two terminal blocks (3) to the left and right X-rail support plates (59) with four screws (4). Solder two wire leads to each terminal block.
- (23) Secure catches (1) to the left and right X-rail support plates (59) with four screws (2).
- (24) Join the Z-travel carriage to the X-travel carriage. Refer to e(l) below for joining instructions.

- e. Joining of the X-, Y-, and Z-Travel Carriages (fig. 3-4). After reassembly of the individual carriages has been accomplished, join the carriages as follows:
- (1) To join the Z-travel carriage to the X-travel carriage, proceed as follows:
- (a) Secure the Z-travel carriage to the X-travel carriage bearing housing with four screws and four washers.
- (b) Secure switch cord to Z-travel carriage housing with two cable clamps. Secure clamps to housing with two screws.
- (c) Secure switch cord to back of X-travel carriage bearing housing with one cable clamp. Secure cable clamp to bearing housing with one screw.
- (d) Solder two switch cord leads to terminals on terminal block located behind the X-travel carriage housing.
- (2) Join the assembled X- and Z-travel carriages to the Y-carriage by carefully mounting the X-travel carriage on the Y-travel carriage and securing with two quick-release catches located on the outer ends of the X-travel carriage

and two quick-release catches on the inner sides of the Y-travel carriage.

- *f. Installation of Carriage Assembly* (fig. 3-4). Install the carriage assembly on the light table assembly as follows:
- (1) Place the Y-travel carriage in position as shown in figure 3-4. Secure the front blocks of the Y-travel carriage to the light table assembly with four screws and four washers.
- (2) Secure rear brackets of the Y-travel carriage to the light table assembly with four screws, four washers, and carriage spacers as required.
- (3) Join the X-travel carriage to the Z-travel carriage. Refer to e(l) above.
- (4) Install the X-travel carriage and Z-travel carriage to the light table assembly by carefully mounting the X-travel carriage on the Y-travel carriage as shown in figure 3-4 and secure with two quick-release catches located on the outer ends of the X-travel carriage and two quick-release catches on the inner sides of the X-travel carriage.
- (5) Perform light table tests as outlined in paragraphs 4-4 and 4-5 to determine if light table is in proper working order.

# CHAPTER 4 GENERAL SUPPORT TESTING PROCEDURES

### 4-1. General

a. Testing procedures are prepared for use by electronics field maintenance shops and service organizations responsible for general support maintenance of electronics equipment to determine the acceptability of a repaired electronics equipment. These procedures set forth specific requirements that repaired electronics equipment must meet before it is returned to the using organization. The testing procedures may also be used as a guide for the testing of equipment that has been repaired at direct support maintenance if the proper tools and test equipment are available. A summary of the performance standards is given in paragraph 4-7.

**b.** Comply with the instructions preceding each chart before proceeding to the chart. Do not vary the sequence. For each step, perform all the actions required in the *Test equipment* and *Equipment under test* columns; then, perform each specific test procedure and verify it against its performance standard.

# **4-2. Test Equipment, Tools, and Material** All test equipment, tools, materials, and other

equipment required to perform the testing procedures given in this chapter are listed in *a* through d below.

- a. Meter, Spot, Brightness Spectra LM-150A.
- b. USAF Resolution Chart 1951.
- c. Aerial photographic negative.
- d. 9½-inch aerial rollfilm.

### 4-3. Modification Work Orders

Perform the work specified by modification work orders (MWO) pertaining to this equipment before making the tests specified. DA Pam 310-7 lists all available MWO's.

### 4-4. Light Table Physical Lists and Inspection

- a. Test Equipment and Materials. Two (2) 9½-inch aerial rollfilm.
- b. Test Connections and Conditions. None required.

### c. Procedure.

Step.	Control setting			
No.	Test equipment	Equipment under test	Test procedure	Performance standard
1	N/A	Controls may be in any position.	a. Inspect all controls and mechanical assemblies for loose or missing screws, bolts, and nuts. b. Inspect right and left stage glass for cracks or chips. c. Inspect connectors, power cord, wires, and receptacles, including fuse holders for looseness and damage. d. Insure that 3.0 amp and 8.0 amp fuses	<ul> <li>a. Screws, bolts, and nuts must be tight; none missing.</li> <li>b. Stage glass must not be scratched or chipped.</li> <li>c. No looseness or damage evident.</li> <li>d. Fuses of correct value must be installed.</li> </ul>

Step No.	Test equipment	Equipment under test	Test procedure	Performance standard
			are installed in fuse holder. e. Inspect case for damage, missing parts, and condition of finish and panel lettering.  Note. Touchup paint is recommended in place of refinishing whenever practicable. Screwheads, receptacles, and plated fastener parts will not be painted or polished with abrasives.	e. No damage or missing parts evident. External surfaces intended to be painted must not show bare metal. Panel letter- ing must be legible.
2	N/A	LAMP INTENSITY control set to ON and carriage switch to ON.	Move carriage in X- and then Y-travel di- rections with a force sufficient to overcome	Carriage shall not move with a force less than 10 pounds in either direction.
3	N/A	LAMP INTENSITY control set to ON and carriage switch to ON.	magnetic clutches. a. Press red carriage pushbutton switch and move carriage entire length of X-travel direction. b. Press red carriage pushbutton switch and move carriage entire length of Y-travel direction. c. Move carriage entire length of X-travel direction with X-travel control knob. d. Move carriage entire length of Y-tire length of Y-tire length of Y-	<ul> <li>a. Carriage shall not bind and shall not require more then 3 pounds of force for free movement.</li> <li>b. Carriage shall not bind and shall not require more than 3 pounds of force for free movement.</li> <li>c. Carriage must move freely without evidence of binding.</li> <li>d. Carriage must move freely without evidence of binding.</li> </ul>
4	9½-inch aerial rollfilm.	Controls may be in any position.	travel direction with Y-travel control knob.  a. Load 9½-inch aerial rollfilm in conventional film mode (TM 11-6675-287-12).  b. Load film in takeup mode (TM 11-6675-287-12). Turn FILM TAKEUP loop accumulator control knob, driving retracting rollers (accumulator) to insure ease of movement of rollers to takeup and short takeup positions.  c. Load two films in split vertical mode	<ul> <li>ing.</li> <li>a. Film must be easily moved forward and in revers with crank.</li> <li>b. Film must be easily moved forward and in revers in both takeup position and rollers must moved freely.</li> <li>c. Both films must easily move in each direction.</li> </ul>

Step	С	ontrol setting		
No.	Test equipment	Equipment under test	Test procedure	Performance standard
			a combined width less than 10 inches side-by-side in take up mode (TM 11- 6675-287-12).	move independently in both directions.
	N/A	Controls may be in any position.	a. Disengage film ten- sion screws and operate all crank handles.	a. Crank handles turn freely.
6	N/A	LAMP INTENSITY control set to OFF.	b. Tighten film screws. a. Set HI/LO switch to HI; then, to LO. b. Turn LAMP INTEN- SITY control fully clockwise; then, fully counterclock- wise.	<ul> <li>b. Crank handles do not turn.</li> <li>a. Switch operates freely to both positions.</li> <li>b. LAMP INTENSITY control turns smoothly and locks positively at OFF.</li> </ul>
7	N/A	Controls may be in any position.	Move both stage cam shifting levers to CLOSE; then, to OPEN.	Right and left stage glass must move freely to its open position, then to its closed position.
8	N/A	Controls may be in any position.	Move mask control han- dles toward front of unit so that mask cov- ers entire viewing area.	Mask must move easily with- out evidence of binding through entire length of movement.

### 4-5. Light Source Test

- a. Test Equipment and Materials. Meter, Spot, Brightness Spectra LM-150A (SBM).
- b. Test Connections and Conditions. Turn on primary power source.

### NOTE

Set SBM meter switch to LOW and power switch to TEST for at least **10** seconds and observe output meter. Output meter indication should be a minimum of 1 volt. If output meter indication is less than 1 volt, replace battery pack.

### c. Procedure.

Step	Control	setting		
No.	Test equipment	Equipment under test	Test procedure	Performance standard
1	N/A	Set HI/LO switch to LO and turn LAMP IN- TENSITY control clockwise. Allow 15- minute warmup time.		Light table lights.
2	N/A	N/A	Turn LAMP INTEN- SITY control through entire range.	Intensity of light varies as switch is turned through entire range.
3	N/A	Set HI/LO switch to HI.	Observe light table	Light intensity increases.
4	N/A	N/A	Turn LAMP INTEN- SITY control through en tire range.	Intensity of light varies as switch is turned through entire range.
5	a. Set SBM meter switch to HIGH; operate power switch to ON.	a. N/A	a. None	a. None.

Step	Control	setting		
No.	Teat equipment	Equipment under test	Teat procedure	Performance standard
	Note: Allow 5-minute warmup time.			
	b. Set SBM filter se- lector switch to	b. N/A	b. Separate light source into sections, as	b. None.
1	ZERO, and	' !	indicated in fig- ure 4-l.	
	range selector switch to 10K;		ure 4-1.	
	adjust output			
l	meter to zero,			
1	using ZERO			
1	control. Repeat			
l	this adjustment with meter			
Į.	switch set to			
	LOW.			
ľ	Note. If SBM meter is not completely warmed up. in-			
1	dicator needle will creep			
l	upward from zero setting. Wait until meter has warm-			
	ed up before making final			
6	zero adjustment. s e t SBM <b>meter</b>	Set HI/LO switch to	Using SBM meter. mea-	Output meter indicates 2,200
Ů	switch to HIGH.	HI and LAMP IN-	sure light intensity 2	fl minimum in each position.
ļ	and filter selector	TENSITY control	inches from comers	•
1	switch to foot-lam-	fully clockwise	in each quadrant and	
į	berts.	(maximum).	center of light source (fig. 4-l) for both the	
i			right and left viewing	
	l		area. Check output	
- 1			meter.	
7	Same as step 6	Set HI/LO switch to	Same as step 6	Output meter indicates 1,000
- 1		HI and LAMP IN- TENSITY control		fl minimum in each position.
- 1		fully counter-		
		clockwise (mini-		
		mum) but not to		
ا ،	C. A. C.D.M.	the OFF position.	S 6	Outrat mater indicates 1 000
8	Set SBM meter switch to LOW,	Set HI/LO switch to LO and LAMP IN-	Same as step 6	Output meter indicates 1,000 fl minimum in each position.
- 1	and filter selector	TENSITY control		The same of the same and the sa
1	switch to foot-lam-	fully clockwise	ì	
	berts.	(maximum).		0
9	Same as step 8	Set HI/LO switch to LO and LAMP IN-	Same as step 6	Output meter indicate8 110 fl minimum in each position.
		TENSITY control	İ	minimum in each position.
		full counterclock-	1	
		wise, minimum but	1	ĺ
		not to the OFF po-	l	
Į.		sition.	(	

Note. In steps 6 through 9 above, the minimum brightness at all test locations in the LO range shall not exceed 5 percent of the maximum brightness previously obtained in the HI range. Light intensity may go to extinction in all test locations in the LO range. The maximum intensity reading in the LO range shall overlap the minimum intensity reading in the HI range at each test location, in figure 4-1.

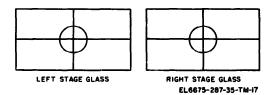


Figure 4-1. Stage glass, sectioned for test.

- 4-6. Zoom 240 Physical and Optical Tests
  - a. Test Equipment and Materials.
    - (1) USAF Resolution Chart 1951.
    - (2) Aerial photographic negative.
  - b. Test Connections and Equipment.

- (1) Zoom 240 must be mounted in arm assembly on retractable arm.
- (2) Zoom 240 must be set up as a microscope.
  - (3) Place carriage switch to ON.
  - c. Procedure.

Step	Co	ontrol setting	-	
No.	Test equipment	Equipment under teat	Test Procedure	Performance standard
1	N/A	Rotate LAMP IN- TENSITY control past INCREASE fully clockwise.	a. Inspect optical elements for scratches, bubbles, dirt, lint, and scum within field of view. b. Inspect Zoom 240 for damage or missing parts.  Note. Touchup painting is recommended in place of refinishing whenever practicable Screwheads and plated fastener parts will not be painted or polished with abrasives.	a. There must not be any scratches, bubbles, dirt, lint, or scum in field of view.  b. No damage or missing parts evident. External surface8 intended to be painted must not show bare metal.
2	N/A	Turn right and left power changer knobs fully counterclockwise; set common power changer knob to 3.0.	a. Place resolution chart on illumi- nated format with lines oriented hori- zontally and verti- cally.	a. None.
		5.0.	b. With 20X eyepieces, focus Zoom 240 over resolution chart. c. Without changing fo- CUS, set common power changer knob to 0.7.	b. Right and left optic trains each resolve 200 lines per millimeter.      c. Right and left optic trains each resolve a minimum of 60 line8 per millimeter.
3	N/A	Check that common power changer knob is at 0.7.	a. Remove resolution chart and replace it with aerial pho- tographic negative. b. Focus Zoom 240. Note. Perform procedures given in c below using each	a. None.  b. None.
			eyepiece.  c. While observing image, set common power changer knob to 3.0.  Note. Perform procedures given in d below using each eyepiece.	c. There must not be more than one image jump a end of zoom travel.
			d. While observing image, first set common changer knob to 1.0; then, to 2.0. At each position, abruptly reverse rotation of common power changer knob.	d. There must not be more than one image jump a each common power changer knob position.

Step No.		ntrol setting		
No.	Test equipment	Equipment under test	Test Procedure	Performance standard
4	N/A	Controls may be in any position.	Replace 20X eyepieces with 10X eyepieces.	There must be no reduction in field of view.
5	N/A	Rotate common power changer knob until 2 power line is aligned with fiducial line on body.	Reverse common power changer knob so that any excessive lost mo- tion will become evi- dent.	Lost motion of power changer knob shall not exceed 3 line widths of engraved scale.
6	N/A	Controls may be in any position.	Rotate eyepieces to pro- vide maximum ocular separation.	Movement must be sufficient to provide separation from 60 to 72 millimeters.
7	N/A	Controls may be in any position.	Rotate common power changer knob to ex- treme clockwise and counterclockwise po- sitions.	The 0.7 and 3 line markings must be approximately aligned with markings on power pod.
8	N/A	Set common power changer knob to 3.0.	a. Remove aerial pho- tographic negative and replace it with resolution chart.	a. None.
			b. Install 0.5X lens at- tachment.	b. None
		ę.	c. Replace 10X eye- pieces with 20X eyepieces.	c. None.
			d. Focus Zoom 240 and observe resolution chart.	d. Zoom 240 must resolve a minimum of 100 lines per millimeter.
9	N/A	Attach IX stereo rhomboid system to adapter plate.	Rotate rhomboids throughout their en- tire range.	Motion shall be smooth but with sufficient resistance to prevent free movement.
10	N/A	Check that common power changer knob is set to 3.0.	Focus Zoom 240 and observe resolution chart through 20X eye pieces.	Zoom 240 must resolve a min- imum of 200 lines per milli- meter.
11	N/A	Check that common power changer knob is set to 3.0.	a. Position rhomboid arms at maximum separation and parallel to X-travel direction.	a. None.
:			b. Position resolution chart at center of the left viewing	b. None.
			area.  c. Viewing chart through right eyepiece only, obtain best focus using mount height adjustment with right stereoscope rhomboid fine adjustment lever approximately in center	c. Zoom 240 must resolve a minimum of 200 lines per millimeter.
12	N/A	N/A	of its extreme limits of travel.  a. Position resolution chart at one of four comer areas of left viewing area.	a. None.

Step	Con	atrol setting		
· No.	Test equipment	Equipment under test	Test Procedure	Preformance standard
			b. View resolution chart through right eyepiece only.	b. Zoom 240 must resolve a minimum of 200 lines per millimeter with a maximum rotation of 50 degrees of right rhomboid fine focusing lever with respect to its original setting at center of left viewing area.  Note. 13-degree rotation of the fine focusing lever is equivalent to a 0.006-inch vertical movement of the rhomboid.
13	N/A	N/A	Repeat steps 11 and 12 above for remaining three comers of left viewing area and at center and four corners of right viewing area.	Zoom 240 shall resolve a minimum of 200 lines per millimeter with a maximum rotation of 50 degrees of right rhomboid focusing lever from its initial setting at center of left viewing surface in all areas.
14	N/A	Set common power changer knob to 3.0.	a. Position Zoom 240 at center of left viewing area with rhomboid arms at maximum separa- tion with Zoom 240 rotated clock- wise at an approx- imate angle of 45 degrees with re- spect to .X-travel direction. b. View resolution chart through right eyepiece and ob- tain best focus using zoom mount height adjustment in center of its ex-	b. Zoom 240 shall resolve a minimum of 200 lines per millimeter.
	1		treme limits of travel. c. Move resolution chart so that it may be viewed through left eye piece without moving Zoom 240.	c. None.
			d. Focus using only focusing adapter to balance acuity of observer's eye (if necessary) and left rhomboid fine focusing lever.  e. Rotate Zoom 240	d. Left eyepiece shall resolve a minimum of 200 lines per millimeter.  e. None.
			approximately 90 degrees counter- clockwise without translation of car- riage.	

Step	Control	setting	_	
No.	Test equipment	Equipment under test	Test Procedure	Performance standard
			f. View resolution chart through right eyepiece.	f. Zoom 240 shall resolve a minimum of 200 lines per millimeter with a max- imum rotation of 25 de- grees of right rhomboid fine focusing lever with respect to its initial set- ting.
15	N/A	Set common power changer knob to 3.0.	g. Repeat e and f above for left eyepiece. Repeat step 14a through g above at center of right viewing area using same resolution and adjustment criteria.	g. Same as f above.  Performance standards are same as indicated in 14a through g above.

### 4-7. Test Data Summary

### 1. LIGHT SOURCE TEST

### a. Resolution:

a. Resolution.	
(1) Common power changer knob set to 3.0	200 lines per millimeter.
(2) Common power changer knob set to 0.7	60 lines per millimeter.
<b>b.</b> Zoom from 0.7 to 3.0	One image jump.
c. Reverse zoom direction at common power changer knob positions 1.0 and <b>2.0</b>	One image jump at each position
d. Eyepiece separation	Variable from 60 to 72 millimeters.
e. Resolution with 0.5X attachment	100 lines per millimeter,
f. Resolution with stereo rhomboid arms with stereo lenses (all right and left stage glass viewing areas)	. 200 lines per millimeter.

# CHAPTER 5 DEPOT OVERHAUL STANDARDS

# 5-1. Applicability of Depot Overhaul Standards

Viewer, Stereoscopic Rollfilm, Photographic Interpretation AR-133A must be tested thoroughly after rebuild or repair to insure that it meets adequate performance requirements for return to stock and reissue. The tests outlined in this chapter are designed to measure the performance capability of the repaired equipment. Equipment that is to be returned to stock should meet the standards given in these tests.

### 5-2. Applicable References

a. Repair Standards. Applicable procedures of the depots performing these tests and the general standards for repaired equipment given in TB SIG 355-1, TB SIG 355-2, and TB SIG 355-3 form a part of the requirements for testing this equipment.

b. Technical Publications. The technical publication listed below is applicable to these tests.

Title Number

Organizational Maintenance Manual for Viewer, Stereoscopic Rollfilm, Photographic Interpretation AR-133A TM 11-6675-287-12

### 5-3. Rollfilm Viewer Test Requirements

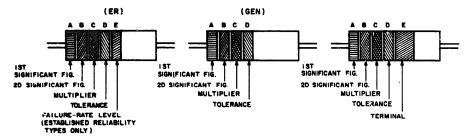
The test requirements for the depot overhaul standards are the same as the test requirements given in chapter 4. Equipment that is tested and meets the performance standards given in paragraphs 4-4 through 4-6 should be considered as having passed the depot overhaul standards.

# CHAPTER 6

## FINAL ILLUSTRATIONS

6-1. General Listed below are the final illustrations which are	Figure No.	TM control No.	Title
to be used in conjunction with the maintenance procedures given in chapters 1 through 4.			sistors, inductors, and capacitors.
Figure No. TM control No. Title	6-2 EI	L6675-287-35-20	Rollfilm viewer, schematic dia-
6-l ESC-FM-4113-69 Color code marking for MIL-STD re-	6-3 EL	6675-287-35-21 R	gram. collfilm viewer, wir- ing diagram.

TM 11-6675-287-35



COLOR CODE MARKING FOR COMPOSITION TYPE RESISTORS.

COLOR-CODE MARKING FOR FILM-

COLOR CODE FOR COMPOSITION TYPE AND FILM TYPE RESISTORS.

BAN	DA	BAN	D B	BAN	D C	В	AND D	BAND E					
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)	COLOR	FAILURE RATE LEVEL	TERM.			
BLACK BROWN RED ORANGE YELLOW GREEN BLUE PURPLE (VIOLET) GRAY WHITE	0 1 2 3 4 5 6 7	BLACK BROWN RED. ORANGE. YELLOW GREEN BLUE. (VIOLET) GRAY WHITE	0 1 2 3 4 5 6 7	BLACK BROWN RED ORANGE YELLOW GREEN BLUE SILVER GOLD	1 00 000,000 0,000 0,000,000 1,01 1,01	SILVER.	±10 (COMP. TYPE ONLY) ±5 ±2 (NOT AP- PLICABLE TO ESTABLISHED RELIABILITY).	BROWN RED ORANGE YELLOW WHITE	M P R S	SOLD- ERABLE			

BAND A - THE FIRST SIGNIFICANT FIGURE OF THE RESISTANCE VALUE (BANDS A THRU D SHALL BE OF EQUAL WIDTH.)

BAND B - THE SECOND SIGNIFICANT FIGURE OF THE RESISTANCE VALUE.

BAND C - THE MULTIPLIER. THE MULTIPLIER IS THE FACTOR BY WHICH THE TWO SIGNIFICANT FIGURES ARE MULTIPLIED TO YIELD THE NOMINAL RESISTANCE VALUE.)

BAND D - THE RESISTANCE TOLERANCE.

S A N D E - WHEN USED ON COMPOSITION RESISTORS, BAND E INDICATES
ESTABLISHED RELIABILITY FAILURE -RATE LEVEL. ON FILM
RESISTORS, THIS BAND SHALL BE APPROXIMATELY I-I/2 TIMES THE
WIDTH OF OTHER BANDS, AND INDICATES TYPE OF TERMINAL.

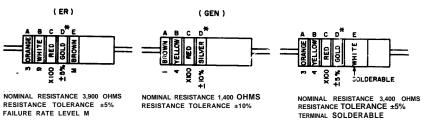
RESISTANCES IDENTIFIED BY NUMBERS AND LETTERS (THESE ARE NOT COLOR CODED)

SOME RESISTORS ARE IDENTIFIED BY THREE OR FOUR DIGIT ALPHA NUMERIC DESIGNATORS. THE LETTER R IS USED IN PLACE OF A DECIMAL POINT WHEN FRACTIONAL VALUES OF AN OHM ARE EXPRESSED. FOR EXAMPLE:

2R7 - 2.7 OHMS 10R0 - 10.0 OHMS

FOR WIRE-WOUND-TYPE RESISTORS COLOR CODING IF NOT USED, IDENTIFICATION MARKING IS SPECIFIED IN EACH OF THE APPLICABLE SPECIFICATIONS.

### EXAMPLES OF COLOR CODING



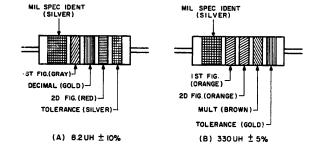
COMPOSITION-TYPE RESISTORS

FILM - TYPE RESISTORS

\* IF BAND D IS OMITTED. THE RESISTOR TOLERANCE IS ±20% AND THE RESISTOR IS NOT MIL-STD.

A. COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS.

Figure 6-1. Color code marking for MIL-STD resistors, inductors, and capacitors.



COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES, AT A, AN EXAMPLE OF OF THE CODING FOR AN 8.2 UH CHOKE IS GIVEN. AT B, THE COLOR BANDS FOR A 330 UH INDUCTOR ARE ILLUSTRATED.

TABLE 2
COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES.

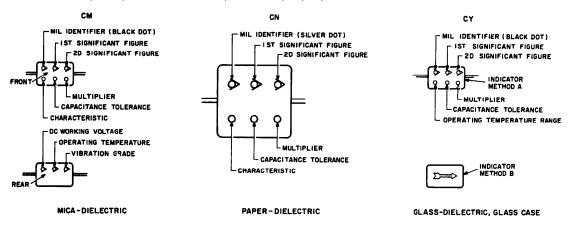
COLOR	SIGNI- FICANT FIGURE	MULTIPLIER	INDUCTANCE TOLERANCE (PERCENT)
BLACK	0	ı	Augusta tokontok magazina andari karangan
BROWN	ı	10	1
RED	2	100	2
ORANGE	3	700	3
YELLOW	4		
GREEN	5		
BLUE	6		
VIOLET	7		
GRAY	8		
WHITE	9		
NONE			20
SILVER			10
GOLD	DECIMAL	POINT	5

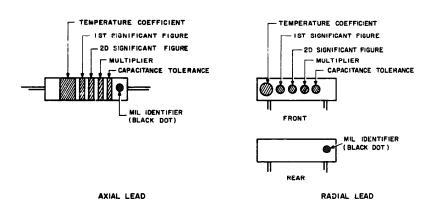
MULTIPLIER IS THE FACTOR BY WHICH THE TWO COLOR FIGURES ARE MULTIPLIED TO OBTAIN THE INDUCTANCE VALUE OF THE CHOKE COIL.

B. COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.

6 - 3

#### CAPACITORS, FIXED, VARIOUS-DIELECTRICS, STYLES CM, CN, CY, AND CB.





C. COLOR CODE MARKI

Q

REAR

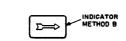
MIL IDE

#### CAPACITORS, FIXED, VARIOUS-DIELECTRICS, STYLES CM, CN, CY, AND CB. CY MIL IDENTIFIER (BLACK DOT) MIL IDENTIFIER (SILVER DOT) MIL IDENTIFIER (BLACK DOT) TIST SIGNIFICANT FIGURE - IST SIGNIFICANT FIGURE - IST SIGNIFICANT FIGURE - MIL IDENTIFIER (BLACK DOT) - 20 SIGNIFICANT FIGURE -20 SIGNIFICANT FIGURE - 2D SIGNIFICANT FIGURE - IST SIGNIFICANT FIGURE INDICATOR METHOD A - 2D SIGNIFICANT FIGURE MULTIPLIER MULTIPLIER LMULTIPLIER

MULTIPLIER

CAPACITANCE TOLERANCE

- CHARACTERISTIC



MICA - DIELECTRIC PAPER-DIELECTRIC

CAPACITANCE TOLERANCE

-VIBRATION GRADE

CHARACTERISTIC

DC WORKING VOLTAGE FOPERATING TEMPERATURE

GLASS-DIELECTRIC, GLASS CASE

L-CAPACITANCE TOLERANCE

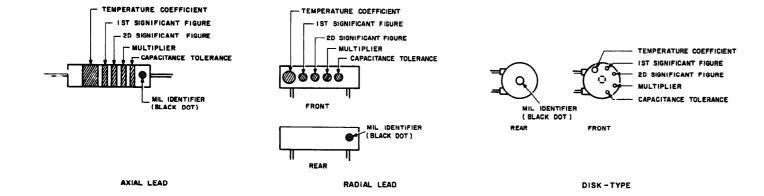
- OPERATING TEMPERATURE RANGE

MICA, BUTTON TYPE

-- CAPACITANCE TOLERANCE

CHARACTERISTIC

CB



C. COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS.

TABLE 3 - FOR USE WITH STYLES CM, CN, CY AND CB.

COLOR	MIL	SIG	2D SIG FIG.	MULTIPLIER	CAPA	CITANO	E TOLE	RANCE	CHAR	ACTE	RISTIC	DC WORKING VOLTAGE	OPERATING TEMP. RANGE	VIBRATION GRADE
		FIG.	PIG.		CM	CN	CY	CB	CM	CN	CB	CM	CY, CM	CM
BLACK	CM, CY CB	0	0	1			±20%	±20%		٨			-55° <sub>TO</sub> +70°C	Ю-58 Н Z
BROWN		1	. 1	10					В	E	8			
RED		2	2	100	±2%		±2%	±2%	С				-55° <sub>TO</sub> +85°C	
ORANGE		3	3	1,000		±30%			D		D	300		
YELLOW		4	4	10,000					Ε				-55° <sub>TO</sub> H25°€	10-2,000
GREEN		5	5		±5%				F			500		
BLUE		6	6										-55° <sub>⊤0</sub> +150°C	
PURPLE (VIOLET)		7	7											
GREY		8	8											
WHITE		9	9											
GOLD				0.1			±5%	±5%						
SILVER	CN				±10%	±10%	±10%	±10%						

TABLE 4 - TEMPERATURE COMPENSATING, STYLE CC.

	TEMPERATURE	IST	20		CAPACITANCE	TOLERANCE	
COLOR	COEFFICIENT4	SIG FIG.		MULTIPLIER	CAPACITANCES OVER 10 UUF	CAPACITANCES 10 UUF OR LESS	MIL
BLACK	0	0	0	ı		± 2.0 UUF	CC
BROWN	-30	1	1	10	±1%		
RED	-80	2	2	100	±2 %	± 0.25 UUF	
ORANGE	-150	3	3	1,000			
YELLOW	-220	4	4				
GREEN	-330	5	5		±5%	± 0.5 UUF	
BLUE	-470	6	6				
PURPLE (VIOLET)	-750	7	7				
GREY		8	8	0.01			
WHITE		9	9	0.1	±10%		
GOLD	+100					±1.0 UUF	
SILVER					·	_	

- 1. THE MULTIPLIER IS THE NUMBER BY WHICH THE TWO SIGNIFICANT (SIG) FIGURES ARE MULTIPLIED TO OBTAIN THE CAPACITANCE IN UUF.
- 2. LETTERS INDICATE THE CHARACTERISTICS DESIGNATED IN APPLICABLE SPECIFICATIONS: MIL-C-5, MIL-C-25D, MIL-C-11272B, AND MIL-C-10950C RESPECTIVELY.
- 3. LETTERS INDICATE THE TEMPERATURE RANGE AND VOLTAGE-TEMPERATURE LIMITS DESIGNATED IN
- 4. TEMPERATURE COEFFICIENT IN PARTS PER MILLION PER DEGREE CENTIGRADE.

ESC-FM 4113-69

TM 11-6675-287-35

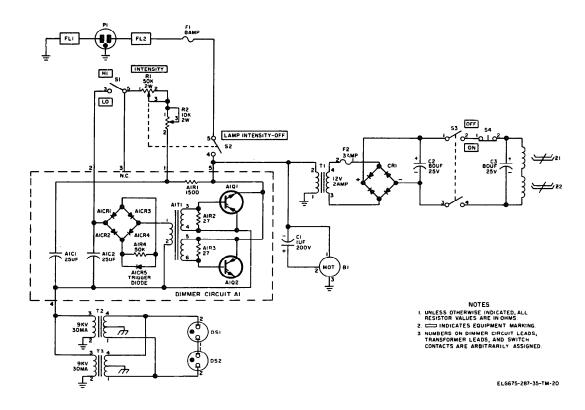


Figure 6-2. Rollfilm viewer, schematic diagram.

6 - 4

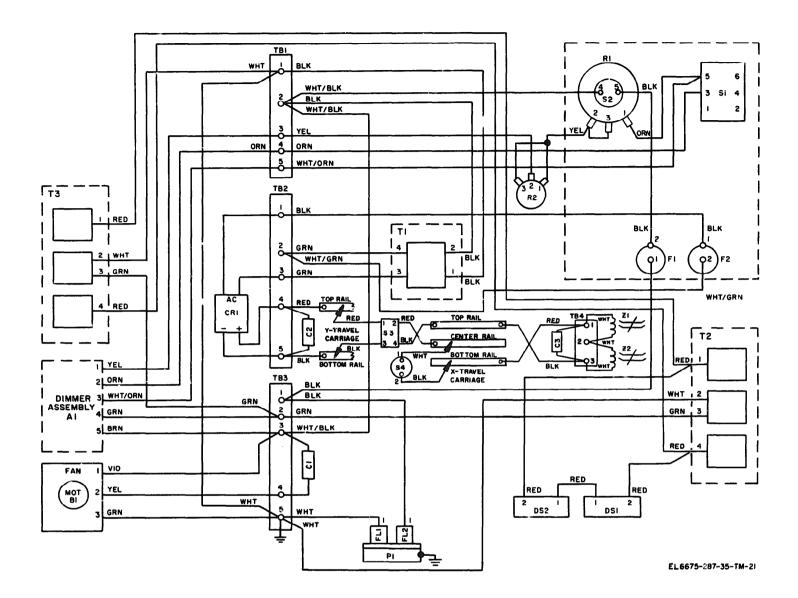


Figure 6-3. Rollfilm viewer, wiring diagram.

6 - 5

# APPENDIX A

### **REFERENCES**

The following applicable references are available maintenance personnel of Viewer, Stereoscopic Rollfilm, Photographic Interpretation AR-133A.

DA Pam 310-4	Index of Current Mechanical Manuals, Technical Bulletins, Supply Man-
	uals, (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
DA Pam <b>310-7</b>	Index of Current Modification Work Orders.
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment.
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment.
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treat- ment.
TB 746-10	Field Instructions for Painting and Preserving Electronics Command Equipment.
TM 11-5895-431-12	Organizational Maintenance Manual: Tactical Imagery Interpretation Facility AN/TSQ-43 and AN/TSQ-43A.
TM 11-5895-431-35	DS, GS, and Depot Maintenance Manual: Tactical Imagery Interpretation Facility AN/TSQ-43 and AN/TSQ-43A.
TM 11-6625-219-12	Organizational Maintenance Manual: Oscilloscope AN/USM-81.
TM 11-6675-287-12	Organizational Maintenance Manual: Viewer, Stereoscopic Rollfilm,
	Photographic Interpretation AR-133A.

### APPENDIX B

# DS, GS, AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

#### SECTION 1. INTRODUCTION

### B-1. Scope

This appendix lists repair parts and special tools required for the performance of direct support, general support, and depot maintenance of the AR-133A.

### B-2. General

This repair parts and special tools list is divided into the following sections:

- a. Repair Parts-Section II. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.
- b. Special Tools, Test and Support Equipment-section III. Not applicable.
- c. Federal Stock Number and Reference Number Index-Section IV. A list of Federal stock numbers in ascending numerical sequence followed by a list of reference numbers in ascending alphanumerical sequence, cross-referenced to the item sequence number.
- d. Figure and Item Number to Item Sequence Number Index-Section V. A list of figure and item numbers, in ascending numerical sequence, cross-referenced to item sequence numbers.

### B-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in sections II and III.

- a. Source, Maintenance, and Recoverability Codes (SMR), Column 1.
- (1) Source codes indicate the selection status and source for the listed item. Source codes used are-

Code

Explanation

- P Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system and authorized for use at indicated maintenance categories.
- P 2 Repair parts 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.
- P 9 Assigned to items which are NSA design controlled: Unique repair parts, special tools, test, measuring, and diagnostic equipment, which are stocked and supplied by the Army COMSEC logistic system, and which are not subject to the provisions of AR 380-41.
- P10- Assigned to items which are NSA design controlled: Special tools, test, measuring, and diagnostic equipment for COMSEC support, which are accountable under the provisions of AR 380-41, and which are stocked and supplied by the Army COMSEC logistic system.
  - M Repair parts which are not procured or stocked, but are to be manufactured at indicated maintenance levels.
  - A Assemblies which are not procured or stocked as such, but are made up to 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.

code

Explanation

- X Parts and assemblies which are not procured or stocked and the mortality of which normally is 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 the next higher assembly or component.
- X 2 Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain same through cannibalization. Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.
  - C Repair parts authorized for local procurement. Where such repair parts are not obtainable from local procurement, requirements will be requisitioned through normal supply channels accompanied by a supporting statement of nonavailability from local procurement.
- G 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 or GS level or returned to depot supply level.
- (2) Maintenance codes, indicate the lowest category of maintenance authorized to install the listed item. The maintenance level code are-

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

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

- R Repair parts and assemblies which are economically reparable at DSU and GSU activities and are normally furnished by supply on an exchange basis
- S Repair parts 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 which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
- U Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, or high-dollar value reusable casings, or castings.
- b. Federal Stock Number, Column 2. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
- c. Description, Column 3. This column indicates the Federal item name and any additional description of the item required. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. On subsequent appearances of an item, the part number and Federal supply code is replaced by "Same As" (applicable sequence number).
- d. Unit of Measure (U/M), Column 4. A two-character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, eg., ft., ea., pr., etc.
- e. Quantity Incorporated in Unit, Column 5. This column indicates the quantity of the item used in the Viewer, Stereoscope, AR-133A. A "V" appearing in this column in lieu of a quantity cannot be indicated (eg., shims, spacers, etc).

f. 30-Day DS/GS Maintenance Allowances, Columns 6 and 7.

### NOTE

Allowances in GS column are for GS maintenance only.

- (1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the applicable allowance columns. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.
- (3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. *Example*, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.
- g. One-Year Allowances per 100 Equipments/ Contingency Planning Purposes, Column 8. This column indicates, opposite the first appearance of each item, the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for 1 year.
- h. Depot Maintenance Allowance per 100 Equipments, Column 9. This column indicates, opposite the first appearance of each item, the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have the letters "REF" in the allowance column. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

- i. Illustration, Column 10. This column is divided as follows:
- (1) Figure number, column 10a. Indicates the figure number in which the item is shown.
- (2) Item number, column 10b. Indicates the callout number used to reference the item in the illustration.

### **B-4.** Special Information

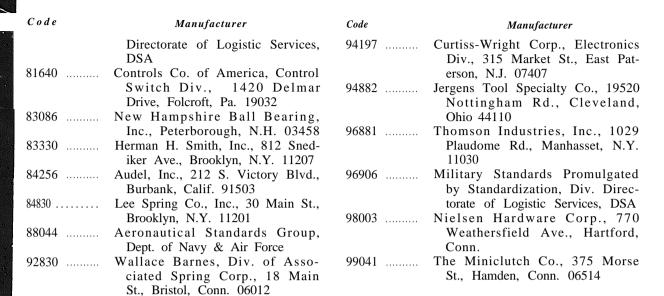
- a. Repair parts mortality is computed from failure rates derived from experience factors with the individual parts, in a variety of equipments. Variations in one specific application and periods of use of electronic equipment, the fragility of electronic piece parts, plus intangible material and quality factors intrinsic to the manufacture of electronic parts, do not permit mortality to be based on hours of end item use. However, long periods of continuous use under adverse conditions are likely to increase repair parts mortality.
- b. Split coding such as AF, MD, PH, etc., found in the source column, indicates parts which require manufacture, assembly, or stockage at a category higher than that authorized to install the item. For example, an item coded MD-O denotes the source of the item to be manufactured (M) at the depot level (D) and authorized for installation at the organizational level (0).
- c. The following publications pertain to AR-133A and its components.

TM 11-6675-287-12 . . . . . Organizational Maintenance Manual

### B-5. How to Locate Repair Parts

- a. When Federal stock number or reference number is unknown-
- (1) First, review the illustrations to determine if the repair part is shown for organizational maintenance and note the figure and item number, if applicable.
- (2) Second, using the figure and item number cross-reference to item sequence number index (sec. V) find the figure and item number and note the item sequence number listed.

	locate the item sequence number	Code	Manufacturer
	earts list (sec. II).	56289	Sprague Electric Co., Marshall St., North Adams, Mass. 01247
number is know		70138	Aero & Corry, Div. of Aero & Flow Dynamics, Inc., 611 W. Main St., Corry, Pa. 16407
reference numb	g the Federal stock number and ber index (sec. IV) find the perti-	70276	Allen Mfg. Co., Box 570, Hartford, Conn. 06101
nent number a ber.	and note the item sequence num-	70485	Atlantic India Rubber Works, Inc., Chicago, Ill. 60607
(2) Locate repair parts list	e the item sequence number in the t (sec. II).	76901	Beemer Engineering Co., Industrial Park, Fort Washington, Pa, 19034
B-6. Federal Manufac	Supply Codes for eturers	71041	Boston Gear Works, Div. of N. American Rockwall Corp., 14
Code	Manufacturer		Hayward St., Quincy, Mass, 02171
00159	St., Cuba, N.Y. 14727	71400	Bussmann Mfg. Division of Mc- Graw & Edison Co., 2536 W.
00779	AMP Inc., P.O. Box 3608, Harrisburg, Pa. 17105		University St., St. Louis, Mo. 63017
02145	The Richards Corporation, 1545 Spring Hill Rd., P.O. Drawer 340, McLean, Virginia 22101	71785	Cinch Mfg. Co., Howard B. Jones Div., 1026 S. Homan Ave., Chi- cago, Ill. 60624
03296	Nylon Molding Corp., 40 Brown St., Springfield, N.J. 07081	72625	Amsted Industries, Inc., Diamond Chain Co. Div., 402 Kentucky
06175	Bausch & Lomb, Inc., 635 South Paul St., Rochester, N.Y. 14602	72962	Ave., Indianapolis, Ind. 46207 Elastic Stop Nut Corp. of Amer-
07886	National Radio Co., Inc., Commercial Products Div., 37		ica, 2330 Vauxhall Rd., Union, N.J. 07083
00062	Washington St., Melrose, Mass. 02176	73445	Amperex Electronic Corp., 230 Duffy Ave., Hicksville, Long
08863	Nylomatic Corp., Nolan Ave., Norrisville, Pa. 19067	73957	Island, N.Y. 11801 Groov-Pin Corp., 1125 Hendricks
14438	The Mylok Co., Division of USM Corp., 3730 W. Morse, Lincoln-	72075	Causeway, Ridgefield, N.J. 07657
15605	wood, Ill. 60645 Cutler-Hammer, Inc., Milwaukee, Wis.	73975	Hamanacher Schlemmer & Co., Inc., 145 E. 57th, New York, N.Y. 10022
16428	Belden Corp. P.O. Box 341, Rich-	75495	Laminated Shim Co., 48 Union
18321	mond, Ind. 47374  T & B Precision Products Co., Inc. St. Petersburg, Fla.	75915	St., Glenbrook, Conn. 06906 Littlefuse, Inc., 800 E. Northwest
24011	Inc., St. Petersburg, Fla. Electronized Chemical Corp., S. Bedford St., P.O. Box 57, Bur-	76005	Hwy., Des Plaines, Ill. 60016 Lord Mfg. Co., Lord Corp., 1635 W. 12th, Erie, Pa. 16512
26002	lington, Mass. 01803 Thompson Industries Limited,	77122	Palnut Co., Mountainside, N.J. 07092
075:-	1900 W. 144th St., Gardena, Calif. 90249	78643	J. J. Tourek, 1901 S. Kilbourn Ave., Chicago, Ill. 60623
27545	Hartford Universal Co., 1022 Elm St., Rocky Hill, Conn. 06067	81348	Federal Specifications, Promulgated by General Services Ad-
44560	Ohio Gear Div. of Townmotor Corp., 1333 E. 179th, Cleve- land, Ohio 44110	81349	ministration Military Specifications, Promulgated by Standardization Div.



### SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1)		TION II REPAIR PARTS FOR DIRECT	(4)	(5)	GENE	(6)	5011	OK1,	(7)	DEI			1211/11	(10)
SMR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION	UNIT	QTY INC IN		AY DS N ALLOWAN			ILLOWAI	AAINT ICE	1 YR ALM PER 100	(9) DEPOT Maint	(a)	ILLUSTRATIONS (b)
	NUMBER	USABLE C REFERENCE NUMBER & MFR. CODE CODE	N MEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c)	EQUIP	100	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
				İ										
G 0-S A001	6675-235-4506	VIEWER, STEREOSCOPE, AR133A: SME689309; (94197)	EA	1										
G0-S A002		.LIGHT TABLE ASSEMBLY, MIM5A: D18505; (02145)	EA	1										
X2-F A003		RETAINER, SLIDE: D16919-1; (02145)	EA	1									3 <b>-</b> 8	59
X2-F A004		RETAINER, SLIDE: D16919-2; (02145)	EA	1									3-8	60
AF-S A005		PLATE SUBASSEMBLY: D17573-2; (02145)	EA	1										
X2~F A006		MAGAZINE, CKAIN: D17340-1; (02145)	EA	1										
X2-F A007		MAGAZINE, CHAIN: D17340-2; (02145)	EA	1										'
X2-F AC08		PLATE, CHAIN GUIDE: C17321; (02145)	EA	1										
Х2-F A009		GUIDE, CENTER: B17379; (02145)	EA	1										
X2-F A010		GUIDE, CHAIN, UPPER: B17368; (02145)	EA	2										
X2-F AG11		GUIDE, CHAIN, UPPER: SAME AS A010	EA	REF										
X2-F A012		GUIDE, CHAIN, LOWER: B17367; (02145)	EA	2										
X2-F A013		GUIDE, CHAIN, LOWER: SAME AS A012	EA	REF										
PF A014	3120-324-6424	BEARING, FLANGED: FB46-2; (71041)	EA	3	1	3	5	1	1	1	46	27		
PF A015	3120-324-6424	DEARING, FLANGED: SAME AS A014	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF A016	3120-324-6424	BEARING, FLANGED: SAME AS AO14	EA	REF	REF	REF	REF	ref	REF	REF	REF	REF		
PF A017	5315-844-5644	PIN, SPRING: MS16562-194; (96906)	EA	2	1	2	3	1	1	1	33	18		
PF A018	5305-208-4861	screw, Machine. MS35223-27; (96906)	EA	27	2	14	7	1	1	2	83	56		
PF A019	5305-959-1082	screw, cap, socket head: MS16995-18; (96906)	EA	6	2	3	6	1	1	2	83	56		
PF A020	5305-990-6381	screw, cap, socket, head: MS16995-19; (96906)	EA	2	2	4	8	1	1	2	164	125		
X2-F A021		GUIDE, CHAIN: A17426; (02145)	EA	5										
X2-F A022		GUIDE, CHAIN: SAME AS AOC1	EA	REF										
X2-F A023		GUIDE, RETRACT ROLLER: B17587; (02'45)	EA	1										
X2-F A024		PLATE, FRONT: C18349; (02145)	EA	1										
X2-F A025		PLATE, END: D18277-1; (02145)	EA	1										

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1)	(2)	I (3)	·			т—									ANCE (Continueu)
SMR CODE	FEDERAL STOCK	DESCRIPTION		UNIT OF	(5) QTY INC I	30-1	(6) Day ds Allow <i>a</i>		30-0	(7) IAY GS Allow <i>i</i> a	MAINT NCE	(8) 1 YR ALW PE	(9) DEPOT MAINT ALWPEI 100	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a)	(b)	(c)	EQUIF	ALWPE 100 EQUIP	FIĞ NO.	ITEM NO. OR
1	. 1														
X2-F A026		PLATE, END: D18277-2; (02145)		EA	1										
4D 1027		COVEP, POWER BOX: D18372; (02145)		EA	1									3-8	32
0-S 028		MOUNTING STRIP: D18503; (02145)		EA	1										
2-F 029		screw, machine: 200036-6; (02145)		EA	5										
D 030		STRIP, MOUNTING: D18371; (02145)		EA	1							l			
D 031		LABEL: B18495; (02145)		EA	1										
F 032	5905-542-9440	RESISTOR, VARIABLE: RV4NBYSD503A; (81349)		EA	1	•	1	2	*	1	1	16	8		
0 033	5355-556-0151	KNOB: MS91528-1D2B; (96906)		EA	1	•	1	2	•	1	1	19	10		
F 034	5930-296-9034	SWITCH, TOGGLE: 8363K7; (15605)		EA	1	1	3	5	1	1	1	46	30		
F 035	5920-892-9311	FUSEHOLDER: FHN26G1; (71400)		EA	2	2	د	દ	1	1	2	59	40		
F )36	5920-892-9311	SAME AS A035		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
0 037	5920-050-4953	FUSE, CARTRIDGE: FO2A250Vl 1-2A; (81349)		EA	1	2	6	11	1	2	3	130	100		
0 038	5920-280-4998	FUSE, CARTRIDGE: 312008; (75915)		EA	1	2	6	11	1	2	3	130	100		
-F- ^ )39		CARRIAGE ASSEMBLY: D18523; (U2145)		EA	1										
2-F-S		CARRIAGE ASSEMBLY, X TRAVEL: D18521; (02145)		EA	1	٠	*	1	•	•	1	8	3		
2-F 041		RAIL ASSEMBLY, X TRAVEL: B16991-3; (02145)		EA	1									3-5	61
F 042	5305-958-6517	SCREW, CAP, SOCKET HEAD: MS16996-12; (96906)	İ	EA	8	2	5	10	1	1	3	107	80	3-5	58
2-F 043		PIN, SPIRAL: MS51923-197; (96906)		EA	4								İ		
2-F 344		ROD: A18608-2; (02145)		EA	1,										
2-F 045		ROD: SAME AS A044		EA	REF						Ì			ļ	
2-F 046		SAME AS A044	Ī	EA	REF						l			j	
2-F 047		ROD: SAME AS A044		EA	REF			l							
-F 48		RAIL: B18370; (02145)		EA	1							ļ			
-F 49		BEARING HOUSING ASSEMBLY: C18517; (02145)		EA	1									3-5	17
-F 50		CHANNEL: B18368; (02145)		EA	1				Ì			ļ		3-5	35
1												}			

# SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(2) FEDERAL	(3)		(4)	(5)		(6)			(*)		(8)	(9) DEPOT		(10)
STOCK	DESCŘÍPTION										1 YR ALWPER 100	DEPOT MAINT MAINT	(a)	ILLUSTRATIONS (b)
NOMBER	BEFERENCE NUMBER & MFR. CODE	USABLE ON CODE	2	UW.11	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100	1 EQULP	מסו וי	MA .	ITEM NO. OR REFERENCE DESIGNATION
	ava tv. Agameru				_		١.	١.						
	B16894-1; (02145)		. KA	1	"	•	1	1	•	1	8	3	3-5	42
	LINK: A16762; (02145)		EA	1					ļ		ŀ	:		
	CHAIN: B16994-3; (02145)		EA	1						ĺ				
5315-847-3735	PIN, SPRING: MS16562-190; (96906)		EA	2	1	2	3	1	1	1	33	16		
	SPACER, SLEEVE: 416916-2; (02145)		EA	1									3-5	18
5305-988-7605	SCREW, CAP, SOCKET HEAD: MS16995-29; (96906)		EA	1	2	3	6	1	1	2	71	50	3-5	21
6740-249-8801	FLATE, BEARING BACK UP: B12142; (02145)		EA	1									3-5	23
5305-959-1082	SCREW, CAP, SOCKET HEAD: SAME AS A019		EA	4	REF	ref	ref	ref	ref	ref	ref	ref	3-5	20
	SETSCREW: 200545-6; (02145)		EA	2									3-5	19
6740-415-2567	LINEAR BALL BEARING ASSEMBLY: C12320-2; (02145)		EA	1	1	. 3	5	1	1	1	53	32	3-5	22
i	SCREW, CAP, SOCKET HEAD: 4-40X1SHSST; (70138)		EA	2									3-5	24
5310-595-6211	washer, flat: MS15795-803; (96906)		EA	2	2	4	7	1	1	2	77	54		
	Linear ball bearing assembly: SAME AS A060		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-5	22
	SCREW, CAP, SOCKET HEAD: SAME AS A061		EA	2									3-5	24
5310-595-6211	WASHER, FLAT: SAME AS A062		EA	2	REF	REF	REF	REF	REP	REF	REF	REF		
	SCREW, CAP, SOCKET HEAD: 6-32X7-16SHSST; (70276)		EA	lş.										
5360-422-1729	SPRING, HELICAL: A17253; (02145)		EA	2	•	1	5	•	1	1	19	10		
5360-422-1729	SPRING, HELICAL: SAME AS A067		EA	REF	REF	REF	REF	REF	REF	REF	ref	REF		
6740-246-8013	DRAG BRAKE ASSEMBLY: B12139; (02145)		EA	1	•	1	, 1	•	1	1	13	6	3-5	25
6740-249-8800	PLUNGER: B12133; (02145)		EA	1	•	•	1	•	•	1	10	4		
	RETAINER, SPRING: B12137: (02145)		EA	1										
	HOUSING: B12138; (02145)		EA	1	l									
5340-825-5906	INSERT, SCREW, THREAD: HS25020-12; (73957)		EA	1										
	THUMBSCREW: PT25; (94882)		EA	1										
5340-954-1141	SPRING, HELICAL, COMPRESSION: LC055F3; (84830)		EA	1	ļ									
		İ	- 1									I		
	\$TOCK NUMBER  5315-847-3735  5305-988-7605  6740-249-8801  5305-959-1082  6740-415-2567  5310-595-6211  5360-422-1729  5360-422-1729  6740-246-8013  6740-249-8800	### STOCK NUMBER ### CODE  ### CODE    CHAIN ASSEMBLY: B16894-1; (02145)  LINK: A16762; (02145)  LINK: B16994-3; (02145)  LINK: B16994-3; (02145)  LINK: B16995-29; (96906)  SPACER, SLEEVE: V16916-2; (02145)  LINK: B16995-29; (96906)  SCREN, CAP, SOCKET HEAD: M516995-29; (96906)  SCREN, CAP, SOCKET HEAD: SAME AS A019  LINEAR BALL BEARING BACK UP: B12142; (02145)  LINEAR BALL BEARING ASSEMBLY: C12320-2; (02145)  LINEAR BALL BEARING ASSEMBLY: C12320-2; (02145)  LINEAR BALL BEARING ASSEMBLY: C12320-2; (02145)  LINEAR BALL BEARING ASSEMBLY: SAME AS A060  LINEAR BALL BEARING ASSEMBLY: SAME AS A060  LINEAR BALL BEARING ASSEMBLY: SAME AS A060  LINEAR BALL BEARING ASSEMBLY: SAME AS A060  LINEAR BALL BEARING ASSEMBLY: SAME AS A060  LINEAR BALL BEARING ASSEMBLY: SAME AS A060  LINEAR BALL BEARING ASSEMBLY: SAME AS A060  LINEAR BALL BEARING ASSEMBLY: SAME AS A061  LINEAR BALL BEARING ASSEMBLY: SAME AS A061  LINEAR BALL BEARING ASSEMBLY: B12139; (02145)  LINEAR BALL BEARING ASSEMBLY: B12139; (02145)  LINEAR BALL BEARING ASSEMBLY: B12139; (02145)  LINEAR BALL BEARING ASSEMBLY: B12139; (02145)  LINEAR BALL BEARING ASSEMBLY: B12139; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING ASSEMBLY: B12137; (02145)  LINEAR BALL BARRING A	### STOCK NUMBER ### CODE	### STOCK NUMBER ### NFR. CODE USABLE ON CODE  #### CODE USABLE ON CODE  ***CHAIN ASSEMBLY: B16994-1; (02145)  ***LINK: A16762; (02145)  ***CHAIN: B16994-3; (02145)  ***CHAIN: B16994-3; (02145)  ***STOCK NUMBER # NFR. CODE  ***STOCK NUMBER # NFR. C	STOCK   NUMBER   REFERENCE NUMBER & MFR. CODE   SABLE ON COD	### STOCK NUMBER #### NFR. CODE   USABLE ON KEAS   LICI II   (a)   1-20	### STOCK NUMBER   SAFERENCE NUMBER & MFR. CODE	### STOCK NUMBER ### NUMBER & MARK & OCCE ###	STOCK NUMBER   USABLE ON   CODE   Code   Cod	STOCK NUMBER A MFR. CODE USABLE ON RAT UNIT (2) (b) (c) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	STOCK NUMBER & NFR. CODE    SABLE ON   NEAS   NAIL COMMERCE	### STATEMAN ASSEMBLY:   MAINTAIN ASSEMBLY:   MAINT	### STREET NAME OF A 1978, CODE   U.SABLE OF ACT.   SALLOWING.   SALLO	## NOTIFIES AND ALL ON CORE   No.

# SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR CODE	(2) FEDERAL STOCK	(3) Description	UNI OF	T QTY	IN T	(6) Day ds Allow			(7) Ay GS Allow/		(8) 1 YR ALH PE	MAI N	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE COOL		SUMIT	[ (a)		(c) 051-100	(a) 1-20	(b) 21-50	(c) 51-100	EQUI	ALMPE 100 EQUIF	FIG	
	ı													
PP A076	5305-543-2188	SCREW, MACHINE: MS35223-32; (96906)	EA	12	2	4	7	1	1	2	83	60		
PF A077		BRUSH ASSEMBLY: A17220; (02145)	EA	1	2	5	10	1	1	3	107	80		
X1-F A078		BRUSH: A17218; (02145)	EA	1		ļ					1			
X1-F A079		PIN, SPRING: 200596-12; (02145)	EA	1		l								
PF A080		BRUSH ASSEMBLY: SAME AS A077	EA	1	REP	कृष	h	REF	ref	REF	REF	REF		
X1-F A081		BRUSH: SAME AS A078	EA	1										
X1-F A082		PIN, SPRING: SAME AS A079	EA	1										
MD A083		PLATE, BACK-UP: A17272; (02145)	EA	1									3-5	26
PF A084	5340-222-8562	CLAMP, LOOP 833; (83330)	EA	1	•	1	1	•	1	1	12	5		
PF A085	5305-637-7079	screw, machine: MS35223-26; (96906)	EA	1	3	7	13	1	2	3	153	120		
PF A086	5310-167-0816	WASHER, FLAT: AN960-6; (88044)	EA	1	1	3	5	1	1	1	53	36		
PF A087	5325-202-1612	stud, snap fastener: MS21326-1; (96906)	EA	1	1	1	2	1	1	1	27	12		
PF A088	6150-478-6229	BUS BAR: B17266; (02145)	EA	1		•	1	•		1	10	ŗ	3-5	54
PF A089	5305-958-6517	SCREW, CAP, SOCKET HEAD: SAME AS AU42	EA	8	REF	ref	REF	REF	REF	REF	REF	REF	3-5	60
MD A090		PLATE: B16841; (02145)	EA	2									3-5	59
MD A091		PLATE: SAME AS A090	EA	REF									3-5	59
PF A092	5305-051-6751	SCREW, CAP, SOCKET HEAD: MS16995-16; (96906)	EA	14	2	3	6	1	1	2	59	40	3-5	2
PF A093	5340-120-1881	CATCH: SCB83314-2SS; (98003)	EA	2	1	2	3	1	1	1	33	20	3-5	1
P—F A094	5340-120-1881	CATCH: SAME AS A093	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-5	1
X2-F A095		SCREW, CAP, SOCKET HEAD: 8-32X1-4SHSST; (70276)	EA	14									3-5	12
MD A096		GUIDE: A16731-1; (02145)	EA	1							ļ			
MD A097		GUIDE: A16731-2; (02145)	EA	1									3-5	11
PF A098		SCREW, CAP, SOCKET HEAD: SAME AS A020	EA	2	REF	REF	REF	REF	REF	REF	REF	REF	3-5	9
PF A099	5340-209-9371	BUMPER, RUBBER: 381; (70485)	EA	2	2	3	6	1	1	2	59	140	3-5	8
PF A100	5340-209-9371	BUMPER, RUBBER: SAME AS A099	EA	REF	REF	REF	REF	REF	REF	REF	ref	REF	3-5	8

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

حببر		TION II REFAIR FARTS FOR	DIRECT			GEN		BUIT	OA1,		עע י			TELV	
(1) SMR COOE	(2) FEDERAL STOCK	DESCRIPTION		(4) UNIT OF	(5) QTY INC IN		(6) Ay DS Allowa			(7) AY 6S ALLOWA		(8) 1 YR ALM PES	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100	EQUIP CNT6CY	MAINT ALMPER 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
l	Ì .														
X2-P A101	į	SHAFT, SPROCKET: B16868; (02145)		<b>E</b> A	1									3-5	49
PF A102	5310-809-4058	WASHER, FLAT: MS27183-10; (95906)		EA	1		*	1		•	1	8	3	3-5	51
PF A103	5315-826-3251	PIN, SPRING: MS16562-223; (96906)		EA	1	•	•	•	•	•	٠.	5	5		
PF Al04	<b>3</b> 3110-250-2099	BEARING, BALL, FLANGED: SFR1883PK25; (83086)		EA	4	1	3	5	1	1	1	53	32	3–5	31
PF A105	<b>3</b> 3110-250-2099	BEARING, BALL, FLANGED: SAME AS AlO4		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-5	31
PF Al0ó	33110-250-2099	BEARING, BALL, FLANGED: SAME AS AlO4		EA	REF	REF	REF	REF	REF	REF	REF	ref	REF	3-5	38
PF A107	<b>3</b> 3110-250-2099	BEARING, BALL, FLANGED: SAME AS Alok		EA	REF	REF	REF	REF	REF	REF	REOP	REF	REF	3-5	38
PF A108	5340-298-6564	RING, RETAINING: MS16624-4-25; (96906)		EA	2	2	6	11	1	2	3	118	90	3-5	<b>μ</b> Ο
PF A109	5305-637-7079	SCREW, MACHINE: SAME AS A085		EA	5	REF	REF	REF	REF	REF	REF	REF	REF		
P-F Allo	5930-296-9034	SWITCH, TOGGLE: SAME AS A034		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-5	7
<b>M-</b> -D		BRACKET, SWITCH: B16946; (02145)		EA	1									3-5	5
PF All2	5340-103-0689	SPACER, SLEEVE: N5712; (08863)		EA	2	*	1	1	•	1	1	13	6	3-5	10
PF All3	5340-103-0689	SPACER, SLEEVE: SAME AS All2		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-5	10
P-F All4		SPROCKET ASSEMBLY: B16867-4; (02145)		EA	1	*	•	1	•	*	1	ì	3	3-5	50
.2 <b>-F</b> A115		screw, button head: scretnhdsst8-32x7-8; (70276)		EA	1									3-5	<b>1</b> .7
P7 All6	5310-685-3744	WASHER, FLAT: AN960C8; (88044)		EA	1	1	1	2	1	1	1	27	15	3-5	48
MD All?	:	BLOCK: B16761; (02145)		EA	1									35	46
PF Al18		CLUTCH ASSEMBLY: B16865-3; (02145)		EA	1	•	•	1	*	•	1	8	3	3-5	39
P-F All9	5310-275-1993	NUT, SELF-LOCKING, HEXAGON: 22NMC2; (72962)		EA	1	1	2	3	1	1	1	33	20	3-5	41
XI-F Al20		SHAFT, STRAIGHT: B16808; (02145)		EA	1										
PF A121		GEAR ASSEMBLY: B16860; (02145)	İ	EA	1	1	2	3	1	1	1	33	20		
X2-F A122		WASHER, FLAT: A16765; (02145)	l	EA	1				l						
X1-F A123		SPACER, SLEEVE: A16766; (02145)		EA	2				Ì						
X1-F A124		SPACER, SLEEVE: SAME AS A123		EA	REF							l			
X1-F A125		GEAR, MODIFIED: A16769; (02145)	ļ	EA	1										
				İ	- [					ļ		-		- 1	

## SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION  OFFERENCE NUMBER & MFR. CODE	usable on Code	(4) UNIT OF	(5) QTY INC IM	(6) 30-day DS Maint ALLOMANCE			(7) 30-DAY GS HAINT ALLOHANCE			(8) 1 YR ALH PER 100	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b) ITEM NO. OR	
				MEAS	URIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100	EQUIP	ו ססון	FIG NO.	REFERENCE DESIGNATION	
	, 															
1-F 126		ARMATURE, CLUTCH: A16835; (02145)		EA	1											
F	3120-725-6598	BEARING, SLEEVE: Bh6-3; (710h1)		EA	1	٠	1	2	•	1	1	27	15			
F	5310-167-0797	WASHER, FLAT: AN960C3; (88044)		EA	2	1	1	2	1	1	1	27	12			
(2 <b>-F</b> 1129	5305-531-9520	SCREW, MACHINE: MS35233-2; (96906)		EA	2											
F 130	5205-068-5411	screw, cap, socket head: Ms16995-3; (96906)		EA	2	1	2	3	1	1	1	59	20			
ID 131		BUSHING, CLUTCH: A18623; (02145)		EA	1										:	
(2 <b>-</b> F 1132		ROTOR, MODIFIED: A18381; (02145)		EA	1											
11-F 1133		FIELD: FG1-1022-904; (27780)		EA	1											
2-F 134		WASHER, FLAT: VH6-2000-942; (27780)		EA	1											
1-F 135		collar, clutch: rg1-1024-901; (27780)		EA	1											
F 136	5315-753-3892	PIN, SPRING: MS16562-216; (96906)		EA	1		•	1	٥	•	1	10	4		-	
11 <b>-F</b> 1137		SPACER, CLUTCH: A16915; (02145)		EA	1											
PF 1138	5305-988-7602	SCREW, CAP, SOCKET HEAD: MS16995-26; (96906)		EA	2	6	12	22	2	3	6	270	210	3-5	<b>և</b> և	
1139	5310-685-3744	WASHER, FLAT: SAME AS Al16		EA	2	REF	ref	REF	REF	REF	REF	REF	REF	3-5	45	
12 <b>-7</b> 1140		PLATE: A16737-2; (02145)		EA	1									3-5	43	
PF	5355-419-1019	KFOB: A17165; (02145)		EA	1	1	2	3	1	1	1	33	20	3-5	29	
PF A142		PINION ASSEMBLY: B16874; (02145)		EA	1			1	١.	١.	1	8	3	3-5	32	
PF A143	5310-275-1993	nut, self-locking, hexagon: same as all9		EA	1	REF	ref	REF	REF	REF	REF	REF	REF	3-5	34	
X1-F A144		shaft, straight: B16814; (02145)		EA	1											
PF A145		GEAR, WORM: HDTH; (71041)		EA	1	1	1	2	1	1	1	27	12			
X1-F A146	5315-550-5011	PIN, SPRING: MS16562-200; (96906)		EA	1											
PF A147	5310-262-5076	nut, plain, hexagon: MS20341-6B; (96906)		EA	1	1	1	2	1	1	,	27	12	3. 5	36	
PF A148	5340-807-6638	CLAMP, LOOP: 1471; (83330)		EA	1			1		•	1	8		3-5	52	
PF A149	5940-283-5280	TERMINAL, LUG: 320561; (00779)		EA	1	•	•	1			1	8	3	3-7	اد ا	
PF A150	5305-207-2788	SCREW, MACHINE: A18632; (02145)		EA	ļ <sup>1</sup>	1	1	5	1	1	1	27	12		ĺ	

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

711	(2)	CTION II REPAIR PARTS FOR DIRECT	(4)		GEN	(6)	, SUI	IOKI	(7)					(10)
(1) SMR CODE	FEDERAL STOCK	(3) DESCRIPTION	UNIT	(5) QTY INC II		AY DS I ALLOHA		30-D	AY 6S ALLOMA	MAINT NCE	(8) 1 YR ALM PER 100 EQUIP	DEPOT MAINT	(a)	ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. COJE CODE	N MEAS	UNIT	(a) 1-20	(b)	(c) 51-100			(c) 51-100	EQUIP CNTGCY	100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
	ļ Ī		į				ļ							
D 151		TERMINAL, BLOCK: B16767; (02145)	EA	2									3-5	1
D 152		TERMINAL, BLOCK: SAME AS A151	EA	REF	1								3-5	3
⊢-D 153	5930-514-7576	PLATE, DESIGNATION: 508; (83330)	EA	1										
2-F 154		,BUTTON ASSEMBLY: A17166; (02145)	EA	1		i.					l			
F 155		EUTTON: A17167; (02145)	RSA.	1	1	1	2	1	1	1	13	6		
—F 156	3120-662-8185	BEARING, SLEEVE: FB35-3; (71041)	EA	1	2	4	8	1	1	2	101	75		
F	E21E_402 2621	PIN, SPRING: MS59231-196; (96906)	EA	1	1	1	2	1	1	1	27	12		
F	5315-402-2621 5310-045-4007	WASHER, LOCK: MS35338-41; (96906)	EA	1			1			1	8	3	3-5	58
_F		TERMINAL STRIP: A17215; (02145)	EA	1			1			1	8	3	3-5	56
159 P	5940-471-8796 5910-241-9589	CAPACITOR, FIXED, PAPER, DIELECTRIC: C426ARF80; (73445)	EA	1	1	1	2	1	1	1	27	12	3-5	55
160 2-F		SCREW, CAP, SOCKET HEAD:	EA	4					İ				3-5	4
161 !		SCRCAPSCHSST6-32X1; (70138)CATCH ASSEMBLY:	EA	1									3-5	13
D		B18513; (02145)	EA	1										
163 P		A18375; (02145)SPRING, HELICAL, EXTENSION:	EA	1	1	2	3	1	1	1	46	27		
164 2-7		LEO55D3; (84830)BRACKET:	EA	,									3-5	14
165		A18376-1; (02145)SCREW, MACHINE: SAME AS A018	EA	1	ref	ref	REF	REF	ref	ref	REF	ref	3-5	15
P 166	•	DAME AD ACIO		İ										
F 167		VASHER, FLAT: SAME AS A086	EA	2	REF	REF	REF	REF	REF	REF	REF	REF	3-5	16
_F 168	5305-988-7605	SCREW, CAP, SOCKET HEAD: SAME AS A056	EA	4	REF	REF	REF	REF	REF	REF	REF	REF		
2- <b>F-</b> S 169		CARRIAGE ASSEMBLY, Y TRAVEL: R18522; (02145)	EA	1	•	•	1	•	•	1	8	3		
2-F 170		GUIDE: A16732; (02145)	EA	2									3–6	6
2-F 171		GUIDE: SAME AS A170	EA	REF									3-6	6
D 172		cover, commector: A16768; (02145)	EA	2									3 <b>-</b> 6	36
D 173		COVER, COMMECTOR: SAME AS A172	EA	REP									3-6	36
D		HOUSING, CONNECTOR: B16834; (02145)	EA	2									3 <b>-</b> 6	37
D		HOUSING, CONNECTOR: SAME AS A174	EA	REF							Ì		3 <b>-</b> 6	37
			ĺ								ł			
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SECTION II REPAIR PARTS FOR DIREST SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SHR COOE	(2) FEDERAL STOCK NUMBER	DESCRIPTION		(4) UNIT OF	(5) QTY INC II	8	(6) AY DS ALLOMA			(7) AY 6S ALLOM		(8) 1 YR ALH PE	(9) DEPOT MAINT	(a)	(10) ILLUS RATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE OH CODE	MEAS	UNIT	(a)	(b) 21-50	(c)	(a)	(b)	(c)	EOUT	ALMPE 100 EQUIP	FIG	ITEM NO. OR
<b>M</b> D		BAR:		EA	2										
A176 MD		B18377; (02145)		EA.	REF									3–6	58
A177 PF		SAME AS A176ROD, STABILIZER:											ļ	3-6	58
A178 MD		A16564-2; (02145)		EA	1		•	1	•	•	1	8	3	3-6	62
A179		BUMPER PLATE: A12176; (02145)		EA	2									3-6	11
MD A180		BUMPER, PLATE: SAME AS A179		EA	REF									3-6	11
PP A181		CLUTCH ASSEMBLY: B16902; (02145)		EA	1	•	•	1	•	•	1	8	3	3-6	24
P <b>P</b> A182	5310-275-1993	HUT, SELF-LOCKING, HEXAGON: SAME AS All9		EA	1	REF	rep	rep	rep	REF	ref	ref	REF	3–6	25
X1-F A183		SHAFT, STRAIGHT: A16849; (02145)		EA	1										
PF A184		GEAR ASSEMBLY: B16860; (02145)		EA	1	•	1	1	•	1	1	13	6		
X2-F A185		WASHER, FLAT: SAME AS A122		EA	1										
X1-F A186		SPACER, SLEEVE: SAME AS A123		EA	2										
X1-F A187		SPACER, SLEEVE: SAME AS A123	ŀ	EA	ref										
X1-F A188	:	GEAR, MODIFIED: SAME AS A125		EA	1										
X1-F A189		ARMATURE, CLUTCH: SAME AS A126		EA	1										
PF A190	3120-725-6598	BEARING, SLEEVE: SAME AS A127	ŀ	EA	1	REF	REF	RET	REF	RET	REF	REF	REF		
PF A191	5310-167-0797	Washer, Flat: Same as al28		EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
X2-F A192	5305-531-9520	SCF W, MACHINE: SAME AS A129	ŀ	EA	2										
PF A193	5305-068-5411	SCREW, CAP, SOCKET HEAD: SAME AS AL30		EA	2	REF	REF	REF	REF	REF	REP	REF	REF		
MD A194		SPACER, CLUTCH: A16764-1; (02145)		EA	1		į						j		
X2-F A195		ROTOR, MODIFIED: SAME AS A132		EA	1				j				Į		
X1-F A196		FIELD: SAME AS A133		EA	1										
X2-F A197		WASHER, FLAT: SAME AS A134		EA	1				ļ		İ				
X1-F A198		COLLAR, CLUTCH: SAME AS A135		EA	1										
P <b>F</b>	5315-753-3892	PIN, SPRING: SAME AS A136		EA	1	REF	REF	REF	REF	ref	REF	REF	REF		
(1-F 1200		HOUSING, Y FINE FEED: 816738; (02145)	İ	EA	1						- 1	I	Ì	3-6	18

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR	(2) FEDERAL	(3) DESCRIPTION		(4) UNIT	(5) QTY		(6) Ay DS I		ŀ	(7) AY 6S	W8 T N T	(8)	(9)	<u> </u>	(10) ILLUSTRATIONS
CODE	STOCK NUMBER	USA	VBLE ON CODE		INC IN UNIT	(a)	ALLOMAI	NCE (c)	(a)	ALLOHA	NCE (c)	ALW PER 100 EQUIP	100	NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
H		NETERENCE NOTICEN & FIFT, COOL	CODE			1-20	21-50	51-100	1-20	21-50	5 1-100	CNTGCY	EQUIP		DESIGNATION
X1-F		Block:		EA	2									3-6	67
A201 X1-F	-	B15016-2; (02145) BLOCK:		EA	REF		<u> </u>							3-6	67
A202 PF		SAME AS A201 SPROCKET, MODIFIED:		EA	2		1	1	١.	1	1	13	6	3-6	33
A203 PF		B16296-1; (02145)SPROCKET, MODIFIED:		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-6	55
A204 PF		SAME AS A203SPROCKET, MODIFIED:		ьA	2		1	1		1	1	13	6	3-6	31
A205		B16296-2; (02145)SPROCKET, MODIFIED:		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-6	
A206		SAME AS A205CHAIN ASSEMBLY:		EA	1				, war	l "in	nuir	r	nar -		52
AF A207	E20E_000 7601	b16895; (02145)SCREW, CAP, SOCKET HEAD:		EA	2	٠	10	18		,		220	171	3-6	27
PP A208	5305-988-7601	MS16995-25; (96906)				5	10	l	1	3	5	220	171	3-6	28
PF A209		B16994-1; (02145)		EA	1		1	1		1	1	13	6		
MD A210		A16746; (02145)		EA	2										
MD A211		BLOCK: A16760; (02145)		£Α	2										
PF A212	5315-847-3735	PIN, SPRING: SAME AS A054		EA	14	REF	REF	REF	REF	REF	REF	REF	REF		
AF A213		CHAIN ASSEMBLY: SAME AS A207		EA	1									3-6	46
P—F A214	5305-988-7601	SCREW, CAP, SOCKET HEAD: SAME AS A208		EA	2	REF	REF	REF	REF	REF	REF	REF	REF	3-6	<b>1</b> 7
PF A215		CHAIN: SAME AS A209		EA	1										
MD A216		BLOCK: SAME AS A210		EA	1										
MD A217		BLOCK: SAME AS A211		E*	1										
PF A218	5315-847-3735	PIN, SPRING: SAME AS A054		EA	2	REF	REF	REF	REF	ref	REF	REF	REF		
MD A219		BRACKET: B16695; (02145)		EA	2									3-6	65
MD A220		BRACKET: SAME AS A219		EA	REF									3-6	65
MD A221		SHAFT: B1637; (02145)		EA	1									3-6	51
X1-F A222		HOUSING: B18367-1; (02145)		EA	1									3-6	63
X2-F A223		PLATE: B18369; (02145)		EA	1									3-6	<b>L</b> L
X2-F A224		PLATE: c16291-2; (02145)		EA	1									3-6	43
PF		PINION ASSEMBLY: B16873: (02145)		EA	l	•	*	1	*	*	1	8	3	3-6	50
A≥25					l							Ì			
												ļ			
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(1) SMR CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION		UNIT OF	(5) QTY INC IN	30-0	(6) NAY DS ALLOWA			(7) AY GS ALLOW/		(8) 1 YR ALMPEI	(9) DEPOT MAINT ALMPE	(0)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21 <b>-</b> 50	(c) 51-100	EQUIP CNTGCY	1 100	1 10	ITEM NO. OR REFERENCE DESIGNATION
,	•				İ			ĺ	]		ł				
PF A226	5340-298-6564	ring, petaining: same as alo8		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-6	22
PF A227	5310-275-1993	NUT, SELF-LOCKING, HEXAGON: SAME AS All9		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3 <b>-</b> 6	23
X1-F A228		SHAFT, STRAIGHT: B16 <sup>-7</sup> 9; (02145)		EA	1										
F 1229	3020-640-4476	GPAR, WORM: SAME AC A145		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
11-F 1230	5315-550-5011	PIN, SPRING: SAME AS Al <sup>1</sup> 6		EA	1		Ì		ĺ						
ID 1231		BUSHING, CLUTCH: SAME AS Al31		EA	1			}	i						
P-F 1232	5305-959-0382	screw, cap, socket head: ms16995-17; (96906)		EA	1	1	2	3	1	1	1	40	24		
PF 1233	5305-990-6381	SCREW, CAP, SOCKET HEAD: SAME AS A020		EA	14	REF	REF	ref	REF	REF	REF	REF	REF		
F 1234	5305-043-6476	SCREW, MACHINE: MS35221-15; (96906)		EA	l.	1	1	2	1	1	1	27	12		
F 235		CATCH: SAME AS A093		EA	2	REF	REF	REF	REF	REF	REF	REF	REF	3-6	<b>4</b>
F 236		CATCH: SAME AS A093		EA	REF	REF	REF	REF	REF	REF	REF	RET	REF	3-6	L L
F 237	5340-817-5516	BUMPER: 16; (70485)		EA	2	•	1	1	•	1	1	13	6	3-6	8
F 238	5340-817-5516	BUMPER: SAME AS A237		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-6	8
D 239		STANDOFF: A18411; (02145)		EA	2									3 <b>-</b> 6	9
D 240		STANDOFF: SAME AS A239		EA	REF								1	3–6	9
F 241	5305-272-3533	SETSCREW: MS51023-49; (96906)		EA	6	1	2	3	1	1	1	33	18	3-6	66
2-F 242		CLAMP, HUB: L1-6; (71041)		EA	5									3–6	32
2-F 243		CLAMP, HUB: SAME AS A242		EA	REF									3-6	34
F 244		BEARING, BALL, FLANGED: SFR43FK25; (83086)		EA	6	1	2	3	1	1	1	40	24	3–6	26
F 245		BEARING, BALL, FLANGED: SAME AS A244		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-6	26
F 246		BEARING, BALL, FLANGED: SAME AS A244		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3–6	35
F 247		BEARING, BALL, FLANGED: SAME AS A244		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-6	54
F 248		BEARING, BALL, FLANGED: SAME AS A21!		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3–6	54
F 249		BEARING, BALL, FLANGED: SAME AS A244		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3–6	57
F		BEARING, BALL, FLANGED: SAME AS A104		EA	2	REF	REF	REF	REF	REF	REF	REF	REF	3-6	21
250						İ									
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(1) SAR CODE	(2) FEDERAL STOCK	OESCRIPTION		(4) UNIT OF	(5) QTY INC IN		(6) AY DS I			(?) N 6: NLOWA		ALM PER	(9) DEPOT MAINT	7.5	(10) Illustrations (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a)	(b)	(c) 51-100	(8)	(b)	(6)	EQUIP	ALMPER 100 EQUIP	ÌΪĠ	ITEM NO. OR REFERENCE DESIGNATION
PP A251		BEARING, BAUL, FLANGED: SAME AS Alok		EA	REF	R <b>EO</b> P	ref	REF	REP	rep	REP	REP	REF	3 <b>-</b> 6	21
PP A252	5340-298-6564	RING, RETAINING: SAMB AS ALOS		EA	2	REF	REF	REP	REF	ref	RET	REF	REF	3-6	50
PP A253		KHOB: SAME A3 Albi		EA	1	REF	REF	nZP	REF	REP	REF	REF	REF	3-6	17
P-F A254	5315-841-4442	PIN, SPRING: M816562-224; (96906)		EA	1	•	•	1	•	٠	1	8	3		
PP A255	5310-949-6284	WASHER, SPRING TENSION: B0375-015; (92830)		EA	14	1	2	3	1	1	1	65	42	3-6	30
PP A256	5305-988-7605	screw, cap, socket head: SAME AS A056	,	EA	6	REF	REF	REF	REF	REF	REF	REF	REF	3-6	29
X2-F A257		SCREW, CAP, SOCKET HEAD: 8-32X1-5-8SHSST; (70276)		EA	3									3-6	19
PP A258		SCREW, CAP, SOCKET HEAD: MS16996-11; (96906)		EA	8	1	2	3	1	1	1	40	24	3-6	45
P—P A259		SCREW, MACHINE: SAME AS A085SCREW, CAP, SOCKET HEAD:		EA .	14	REF	REF	REF	REP	REF	REP	REF	REF	3-6	5
12-F A260 PF		6-32X7-8SESST: (70276)		EA EA	2		1	1		1	1	13	6	3-6	68
A261 PP		\$\$0CS3-\$X23-1-\$; (26002) SHAFT, BALL BUSHING:		EA	RIGP	RET	REF	REF	REF	REF	REP	REP	REF	3-6	68
A262 PF	5305-988-7603	SAME AS A261SCREW, CAP, SOCKET HEAD:		EA	la la	i,	9	16	1	2	 I4	164	126	3-6	59
A263 PP	5340-209-9371	MS16995-27; (96906) BUMPER, RUBBER:		EA.	2	REP	REF	REF	RET	REF	rep	REF	REF	3-6	1
A264 PP A265	5340-209-9371	SAME AS A099 BUMPER, RUBBER: SAME AS A099		EA	REF	REF	REF	RETE	REF	REF	REP	REP	REF	3-6	1
PP A266	5325-202-1612	STUD, SHAP PASTERER: SAME AS A087		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
PP A267	5977-478-6207	BRUSH ASSEMBLY: B18516; (02145)	ĺ	EA	1	•	٠	1	•		1	8	3	3-6	41
PP A263	5305-990-6381	SCREW, CAP, SOCKET HEAD: SAME AS A020		EA	2	ref	REP	REF	RET	REP	REP	REF	rep	3-6	42
X1-F A269	•	BRACKET: B18361; (02145)		EA	1						İ				
X1-P A270		HOUSING, BRUSE: B17847; (02145)		EA	1										
PP A271		BRUSH ASSZABLY: SAME AS A077		EA	1	REF	REF	REF	REST	٠.	RESP	REF	REF		
X1-F A272		SAME AS A078		RA .	1						j				
X1-F A273		SAME AS A079		EA											
PF A274		Brush assembly: same as aot7Brush:		EA	1	REF	REF	REP	REP	REF	REF	HEP	REF	ı	
X1-P A275	,	SAME AS A078		EA	1					ŀ					
									İ						
The second secon										i			ļ		

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR	(2) FEDERAL	(3) Description		(4) UNIT	(5) QTY	20 )	(6)	WATHT	T	(7)	MATER	(8) 1 YR	(9) (EPOT		(10)
CODE	STOCK NUMBER	USA	ABLE ON		INC IN UNIT	(a)	AY DS I ALLOMAI (b)	MCE (c)		ALLOMA (b)	NCE	ALM PER	ALMPER	(a)	ILLUSTRATIONS (b) ITEM NO. OR REFERENCE
	<del> </del>	REFERENCE NUMBER & MFR. CODE	CODE		-	1-20	21-50	51-100	1-20	21-50	51-100	EQUIP CHTGCY	EQUIP	10.	DESIGNATION
X1-F A276		PIN, SPRING: SAME AS A079		EA	1										
PF A277	3110-444-3832	BUSHING, BALL: ADJ12202658; (96881)		EA	4	1	1	2	1	1	1	27	12		
PF A278	3110-444-3832	Bushing, Ball: SAME AS A277		RA	rep	REF	REF	REF	REF	REP	rep	REF	ref		
P-F A279	3110-444-3832	BUSHING, BALL: SAME AS A277		EA	REF	REF	REF	REF	REF	ref	REP	REF	REF		
PF A280	3110-444-3832	BUSHING, BALL: SAME AS A277		EA	ref	REP	REF	REF	rep	rep	REF	ref	REP		
M D A281		ANGLE: A16770; (02145)	}	EA	14									3–6	38
MD A282		ANGLE: SAME AS A281		EA	REF									3-6	38
MD A283		ANGLE: SAME AS A281		EA	REF									3-6	38
MD A284		ANGLE: SAME AS A281		EA	REF									3-6	38
PF A285	5305-051-6785	SCTEW, CAP, SOCKET HEAD: SAME AS A092		EA	14	ref	REF	REF	REF	REF	rep	REF	REF	3-6	5
MD A286		PLATE: B18412; (02145)		EA	1									3-6	14
X1-F A287		SUPPORT, STABILIZER ROD: B17182-2; (02145)		EA	1									3 <b>-</b> 6	60
X2-F A288		BUTTON ASSEMBLY: SAME AS A154		EA	1										
P-F A289		BUTTON: SAME AS A155		EA	1	ref	REF	REF	REF	RE	REF	REF	REF		
PF A290	3120-555-7544	BEARING, SLEEVE: FB35-2; (71041)	l	EA	1	•	•	1	•	•	1	8	3		
PF A291		PIN, SPRING: SAME AS A157	ĺ	EA	1	REF	REF	REF	REF	REF	REP	REP	REP		
PF A292	6740-246-8013	DRAG BRAKE ASSEMBLY: SAME AS A069		EA	1	REF	REF	REF	REF	REF	REF	ref	REF	3-6	13
PF A293	5340-954-1141	SPRING, HELICAL, COMPRESSION: SAME AS A075		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	İ	
PP A294	5740-249-8800	PLUNGER: SAME AS AC70	İ	EA	1	REF	ref	REF	REF	REF	REF	REF	ref		
X1-F A295		HOUSING: SAME AS A072	:	EA	1										
X1-F A296		INSERT: 25020-12; (14438)		EA	1										
X1-F A297		RETAINER, SPRING: SAME AS A073	İ	EA	1						i				
X2-F A298		THUMBSCREW: SAME AS A074		EA	1								i		
PF A299	5305-988-7602	SCREW, CAP, SOCKET HEAD: SAME AS AL38		EA	i.	REF	REF	REF	REF	REF	REF	REF	REF		
MD A300		SPACER: A18413; (02145)		EA	2								ļ	3-6	2
			i.								1				

(1) SMR CODE	(2) FEDERAL STOCK	DESCRIPTION		(4) UNIT OF	(5) QTY INC IN	30-0	(6) AY DS I	MAINT	30-D	(7) AY GS ALLONA	MAINT NCE	(8) 1 YR ALWPER 100 EOUIP	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a)	(b) 21-50	(c)	(a)	(b)	(c) 51-100	EQUIP ENTECY	ALMPER 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
MD A301		SAME AS A300		EA	REF									3-6	2
P2-F-S A302		CARRIAGE ASSEMBLY, VERT TRAVEL: D16791; (02145)		EA	1	٠	٠ ا	1	٠		1	8	3		
X1-F A 303		SLIDE SUPPORT OPTICS: c16587; (02145)		EA	1									3-7	11
X1-F A304		SUPPORT ASSEMBLY, VERT TRAVEL: C16996; (02145)		EA	1									3-7	12
PF A305		RING, OPTICS, OUTER: C16590; (02145)		EA	1	٠	٠	1		•	1	8	3	3-7	86
PF <b>A</b> 306		RING, OPTICS, INNER: C16583; (02145)		EA	1	•	٠	1	•	•	1	8	3	3-7	84
X1-F A307		HOUSING, ELEVATING DRIVE: C16581; (02145)		EA	1									3-7	29
P—F A308		LINEAR BALL BEARING ASSEMBLY: SAME AS A050		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-7	42
X2-F A309		SCREW, CAP, SOCKET HEAD: SAME AS A061		EA	2									3-7	40
X1-F A310	5310-595-6211	WASHER, FLAT: SAME AS A062		EA	2									3-7	41
PF A311		LINEAR BALL BEARING ASSEMBLY: SAME AS A060		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-7	42
X2-7 <b>A3</b> 12		SCREW, CAP, SOCKET HEAD: SAME AS A061		EA	2									3-7	40
XI-F A313	5310-595-6211	WASHER, FLAT: SAME AS A062		EA	2									3-7	41
X2-F A314		SHIM, CIRCULATING BEARING: B15778; (02145)		EA	1									3-7	43
X2-F A315		BLOCK, IDLER, SLIDE: B16319; (02145)		EΑ	1									3-7	10
X2-F A316		PLATE, ANCHOR: A15459; (02145)		EA	1									3-7	5
X2-F A317		DISC, BRAKE: B16675; (02145)		EΑ	1									3-7	75
K2-F A318		RING, BEARING TAKE UP: B16578; (02:45)		EA	1									3-7	80
K2-F A319		RACE, BEARING: B16748-2; (0214-)		EA	2									3-7	85
(2-F 1320		RACE, BEARING: SAME AS AR19		EA	REF									3-7	85
(1-F (321		HOUSING, WORM GEAR: B16588; (02145)		EA	1									3-7	60
(2-F 1322		LOCK, OPTICS RING: A16775; (02145)		EA	1									3-7	79
(2-7 1303		LEVER, LOCK OPTICS RING: A16774; (02145)		EA	1									3-7	78
(D 1324		CAP, INSULATING: SRC3; (24011)		EA	1										
X2-F 325		SCREW, CAP, HEXAGON HEAD: 10-32X3-8HHCDPL: (70148)		EA	1							İ			
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SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION		(4) UNIT OF	(5) (5)		(6) Ay DS I			(7) AY GS I ALLOMA		(8) 1 YR ALH PER	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	RFFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b)	(c) 51-100	(a)	(b)	(c)	טטון,	I TOO	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
PF A326	:	SPRING, BEARING STOP: A16776; (02145)		EA	1	•	•	1	•	•	1	8	3	3-7	77
MD A327		CAP, BEARING: A16554; (02145)		EA	2									3-7	54
MD A328		CAP, BEARING: SAME AS A327		EA	REF									3-7	54
MD A329		SHAFT, FINE FEED: A16580; (02145)		EA	1					Ì				3-7	54
MD A330		SHAFT, SPROCKET: A16566; (02145)		EA	1									3-7	68
MD A331		cover, worm gear housing: a16589; (02145)		EA	1									3-7	48
X2-F A332		SPACER, SPROCKET: A16556; (02145)		EA	1									3-7	67
PF A333		gear: A16567; (02145)		EA	1		•	1	٠	•	1	8	3	3-7	60
PF A334		SPROCKET: A16557; (02145)		EA	1	•		1	•		1	8	3	3-7	64
PF A335		GEAR, WORM: A16562; (02145)		EA	1	•	•	1	•	•	1	8	3	3-7	31
X2-F A336		SHAFT, WORM GEAR: A16654; (02145)		EA	1									3-7	35
X2-F A337		SP:\dle, Shaft, SPROCKET: A16357; (02145)		EA	1									3-7	17
PF A338		SPROCKET: N14B18; (726^5)		EA	1	•	1	1	•	1	1	19	o.	3-7	21
X2-F A339		SHAFT ELEVATING, FAST FEED: a16579; (02145)		EA	1										
PF A340	5315-177-7758	PIN, SPRING: TYPE24-3-16X3-4; (73957)		EA	1	•	•	1	٠	•	1	9	3		
PF A341	5305-959-0379	SCREW, CAP, SOCKET HEAD: MS16995-10; (96906)		EA	8	1	3	5	1	1	1	53	35	3-7	3
X2-F A342		PIN, "TOP- A15914; (02145)		EA	1									3-7	1
PF A343	5305-988-1721	SCREW, MACHINE: MS 35206-277; (96906)		EA	1,	1	1	2	1	1	1	27	12	3-7	9
PF A344	5305-978-9346	SCREW, CAP, SOCKET HEAD: MS16997-18; (96906)		EA	2	•	1	1	•	1	1	13	- (	3-7	76
PF A345	5305-978-9348	SCREW, CAP, SOCKET HEADS: MC16997-20; (96906)		EA	16	5	3	6	1	1	2	65	45	3-7	39
PF A346	5305-068-5276	SCPEW, CAP, SOCKET HEAD: MS16995-9; (96906)		EA	2	ì	1	2	1	1	1	27	12	3-7	ù,
PF A347	5305-990-6381	SCHEW, CAP, SOUKET HEAD: SAME AS A020		EA	3	RFF	REF	HEF	REF	PEF	REF	REF	REF	3-7	61
X2-F A348		gcrew, cap, socket head: MS16995-14; (96906)		EA	ŗ										
А34° РF А349	5305-068-5415	schew, cap, socket head: MS16995-20; (1906)		ΕA	l,	1	1	0	1	1	1	27	12	9-7	46
P F	5305-656-0320	ceen, MacHine: MG35002-30; (96906)		EA	2	•	1	1		1	1	13		3-7	1.7
<b>A3</b> 50		4 0 m + 1 − 20 <b>v + + 2M2M</b> 11													
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•															
				<u></u>		L	L		<u> </u>	<u></u>	<u> </u>	<u></u>	<u> </u>	<u> </u>	<u></u>

(1)	(2)	(2)	(4)	(5)		(6)			(7)	_	(8)	(9)		(10)
SAR	FEDERAL STOCK	(3) DESCRIPTION	UNIT	QTÝ INC IN		Y DS M	NT	30-DA	Y 65 P	IAINT ICE	1 YR Alli Per	DEPOT MAINT	(a)	ILLUSTRATIONS (b)
	NUMBER	USABLE ON DESTREAMENT MARKER & MER. CODE CODE	MEAS	UNIT			(c)	(a)	(b)	(c)	ALLIPER 100 EQUIP CNTGCY	100 FOULP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
$\vdash$	$\vdash$	REFERENCE NUMBER & MFR. CODE CODE	_		1-20	21-30	31-100	1-20	21-30	3 F100	CRIBEI	Equa.		
_			EA	1			,			1	8	3	3–7	65
;? A351	5305-638-2260	SETSCHEW: MS51021-34; (96906)				ı								
?—? 1352	5305-272-3533	SETSCREW: SAME AS A241	EA	1	REF	REF	REF	REF	REF	nep	REF	REF	3-7	72
PP A353	5305-241-3120	setscrew: #S51023-48; (96906)	EA	1	•	•	1	•	•	1	8	3	3-7	73
PP A35 -	5305-543-2671	SETSCREW: MS51029-51; (96906)	EA	1,	1	1	2	1	1	1	27	12	3-7	45
PF A355	5310-534-9743	NUT, PLAIN, HEXAGON: MS35649-244; (96906)	EA	1	•	•	•	•	•	•	5	2	3-7	5
PP A356		SFTSCREW: 5-16-18X3-16SST; (70138)	EA	13	1	1	2	1	1	1	27	12		
?? A357	5315-058-9731	PIN, SPRING: MS16562-213; (96906)	EA	2	•	1	2	•	1	1	18	9	3-7	14
2• • A358		BALL, STAINLESS: 25: (83086)	EA	71	5	11	20	1	3	5	242	.00	3-7	82
PF A359	5340-865-0219	PLUG, BUTTON: 653; (83330)	EA	1	•	•	1	•	•	1	8	3	3-7	71
P—F 1360		GEAR, WORM: HW3201; (44560)	EA	1	•	•	1	•	•	1	8	3	3-7	57
P.—.? A361		HEARING, BALL, FLANGED: SAME AS A244	EA	2	REF	rzp	ref	REF	REF	REF	rep	ref	3-7	47
P7 4362		BEARING, BALL, FLANGED SAME AS A244	EA	REF	REF	ref	rzf	ref	REF	REF	ref	ref	3-7	59
P—7 4363		GEAR, WORM: adue; (83086)	EA	1	٠.	•	1	•	١.	1	8	3		
?? A364	3120-787-9013	ERATING, SLEEVE: ,7346; (71041)	EA	5	1	1	2	1	1	1	27	15	3-7	26
PP 4365	3120-787-9013	BEARING, SLEEVE: SAME AS A364	EA	REP	REF	REF	REF	REF	REF	REF	REP	REF	3-7	28
P7 A364	3120-787-9013	BEARING, SLEEVE: SAME AS A364	EA	RE7	ref	PEF	REF	REF	REF	REF	ref	REF	3-7	36
P/ A367	3120-787-9013	BEARING, SLEEVE: SAME AS A364	EA	PEF	REF	REF	REF	REF	HEF	HEF	REF	REF		
₽—₽ #368	3120-787-9013	BEARING, SLEEVE: SAME AS A 364	EA	REF	REF	PEF	ref	rref	REF	REP	REF	REF		
?7 436?	58%) - 927 - 5892	MEGICLUTCH: HU5L44%; (99041)	EA	1	•	•	1	•		1	8	3	3-7	33
PF 1170	5335-045-2561		EA	1	i	!	2	1	1	1	27	15	3-7	34
2		FRENCHET ASSEMBLY, MODIFIED; 316867-2: (02145)	EA	1		•	1		.	1	8	3	3-7	8
P—F A372		SP-POTICET: SAME AS A335	EA	1	PEF	PEF	PEF	PEF	PEF	PEF	REF	PEF		
P— P A373	1120-461-4431	BRAGING, SLEEVE: 534-3; (71041)	EA	1		•	1	•		1	9	3		
P A775	3112-464-1705	FEARING MAGAZINE: C223. (27545)	F.A.	1	•	•	1	•	•	1	3	3	3-7	18
E-7	90000	ഇതും, ടുറിയത്തി: ആടുസ്യസൂലം (മറിൽ)	EA	1	and the same of th								3-7	2ti
es environment.					-									
The second secon														
			<u> </u>		<u> </u>	<u> </u>			1		Ь	Ц		<u> </u>

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SKR CODE	(2) FEDERAL STOCK	(3) Description	(4) UNIT OF	(5) QTY INC IN		(6) AY DS P		30-D	(7) NY 65 I	MAINT	(8) 1 YR ALMPER	(9) DEPOT HAINT	<u></u>	(10) ILLUSTRATIONS
	NUMBER	REFERENCE NUMBER & MFR. CODE CODE	MEAC	UNIT	(a)	(b) 21-50	(c)	(a)	(b)	(c)	100 EQUIP CNTGCY	100	(a) FIG NO.	(b) ITEM MO. OR REFERENCE DESIGNATION
12-P 1376		KNOB: HRTMS2D; (07886)	EA	2									3-7	51
2-F 377		KNOB: SAME AS A376	EA	REF									3-7	51
F 378		SWITCH, PUSHBUTTON: Cll29R; (81640)	EA	1	•	٠	1	•	٠	1	8	3	3-7	69
F 379	3120-662-8185	BEARING, SLEEVE: SAME AS A156	EA	14	REF	REF	REF	REF	REF	REF	REF	REF	3-7	55
F 380	3120-662-8185	BEARING, SLEEVE: SAME AS A156	EA	REF	REF	REF	REF	REF	ref	REF	REF	REF	3-7	55
F 381	3120-662-8185	BEARING, SLEEVE: SAME AS A156	EA	REF	REF	REF	REF	REF	PEF	REF	REF	REF	3-7	55
2-F 382	3120-662-8185	BEARING, SLEEVE: SAME AS A156	EA	REF	REF	REF	REF	HEP	REP	REP	REF	REF	3-7	55
F 1383		CHAIN, MODIFIED; B16994-2; (02145)	EA	1	•	•	1	•	•	1	8	3	3-7	19
F 1384	5305-637-8249	SCHEW. MACHINE: MS35223-43; (96906)	EA	2	2	3	6	1	1	2	65	45	3-7	22
—ғ 385	5305-988-7603	SCREW, CAP, SOCKET HEAD: SAME AS A263	EA	h	REF	REF	ref	EF	REF	KET	REF	REF	3-7	50
2-F 386		BRACKET, BEARING, FAST FEED: A16569; (02145)	EA	1									3-7	27
2-F 387		SIEEVE, KNOB: A16565; (02145)	EA	2									3-7	52
2-F 388		SLEEVE, KONOB: SAME AS A387	EA	REF									3-7	52
—₹ 389	5305-419-6733	SCHEW, KNUHLED HEAD: A17259; (02145)	EA	2	•	1	1	•	1	1	13	6	3-7	70
2-F 390	6740-249-8801	PLATE, HEARING, BACK UP: SAME AS AD57	EA	1									3-7	հե
2-F 391		RACE, BEARING: B16748-1; (02145)	EA	2									3-7	81
12-F 1392		RACE, BEARING: SAME AS A391	EA	REF									3-7	83
F 1393	5315-039-5563	FIN, SPRING: MS16562-211; (96906)	EA	1	•	•	1	•	•	1	8	3		
F 394	5315-058-9698	FIN. SPRING: MS16562-191; (96906)	EA	1	•	•	1	•	•	1	8	3	3-7	56
F 1395		LINK, CONNECTING: CAUALATCLOD; (72625)	EA	1	•	•	1	٠	•	1	8	3	3-7	6
	5340-720-8064	fing, fetaining: %516621-1025; (96906)	EA	1		٠	1	٠	•	1	8	3	3-7	<i>2</i> 5
⊷® 1397		PAD, HEEL, OPTICS: A16944; (02145)	EA	ş									3-7	38
p p .399		PAD, HEEL, OPTICS: SAME AS A397	EA	REF									3-7	38
	5305-013-3359	screw, Machine: MS35241-19; (96906)	EA	2		1	1	•	1	1	13	6	3-7	37
1399 1D 1400		COILED CORD, MODIFIED: B16971-2; (02145)	EA	1										
#UU														
					L			L	L	L				

(1) SAR	(2) FEDERAL	(3) DESCRIPTION		(4) UNIT	(5) QTY		(6) Y DS M		30-D/	(7) Y GS 1	MINT	(8) 1 YR	(9) DEPOT MAINT	,	(10) ILLUSTRATIONS
CODE	STOCK NUMBER	ARTERIOR AND A MED. CODE	USABLE ON	OF MEAS	INC IN UNIT	(a)	(b)	(c)	(a)	(b)	(c)	ALM PER 100 EQUIP CNTGCY	100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
		REFERENCE NUMBER & MFR. CODE	CODE			1-20	21-50	51-100	1-20	21-30	5 P100	CHIGGI	EQUIT		(ESIGNATION
PP A401	5340-998-0612	CLAMP, LOOP: MS25281F2; (96)06)		EA	2	•	1	1		1	1	13	6		
PF A402	5340-998-0612	CLAMP, LOOP: SAME AS A401		EA	REF	REF	REF	REF	REF	REF	REF	REF	PEF		1
PF A403	5310-167-0816	WASHER, FLAT: SAME AS A086		EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
P—F A404	5310-771-3861	washer, FLAT: AN960-416L; (88044)		EA	4	1	2	3	1	1	1	40	25	3-7	62
PF A405	5310-914-8217	FASTENER, PUSH NUT: PS188007; (77122)		EA	1		•	1	•	•	1	8	3	3-7	7
M-D A406		HOUSING, CLUTCH: A16568; (02145)		EA	1									3-7	32
MD A407		SHAFT, ELEVATING, FAST FEED: SAME AS A339		EA	1									İ	
MD A408		SHIM, LAMINATED: A17649; (02145)		EA	3				1		ļ				
X2 -F		SCREW, CAP, SOCKET HEAD: SAME AS A066		EA	8										
P—F A410		SPPOCKET: A16328; (02145)		EA	2	*	1	1	•	1	1	13	6	3-7	21
P—F A <sup>1</sup> 11		SPROCKET: SAME AS AL10		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-7	21
M-D A412		PLATE: B17898; (02145)		EA	1										
PP A413	5305-959-0382	SCHEW, CAP, SOCKET HEAD: SAME AS A232		EA	14	REF	REF	REF	REF	REF	REF	REF	REF		
?—F	5305-959-0379	SCREW. CAP. SOCKET HEAD: SAME AS A341		EA	4	REF	лЕF	REF	REF	REF	REF	REF	REF		
(2-? (415		REAR PLATE SUBASSEMBLY: D17580-2; (02145)		EA	1						Ì				
12-F 1416		MAGAZINE, CHAIN: SAME AS A006		EA	1								į		
2-F 417		MAGAZINE, CHAIN: SAME AS A007		EA	1										
2-F 418		PLATE, CHAIN GUIDE: SAME AS A008		EA	1	ĺ			ļ						
2-F 419		GUIDE, CENTER: SAME AS A009		EA	1										
2-F 420		GUIDE, CHAIN, UPPER: SAME AS A010		EA	2					ļ			ļ		
? <b>-</b> : •21		GUIDE, CHAIN, UPPER: SAME AS A010		EA	REF										
22		GUIDE, CHAIN, LOWER: SAME AS A012		EΑ	2										
1-7 123		Guide, Chain, Lower: SAME AS A012		EA	REF										
-F 25	3120-326-6626	BRARING, SLEEVE: SAME AS A014		EA	2	REF	REF	PEF	PEF	REF	REF	REF	REF		
<b>-F</b> 25	3120-326-4626	BEAPING, SLEEVE: SAME AS ADIA		EA	PEF	PEF	PEF	REF	PEF	PEF	REF	REF	PEF		
												1			

(1) SMR CODE	(2) FEDERAL STOCK	DESCRIPTION		(4) UNIT	(5) QTY	30-D	(6) Ay DS I	MAINT		(7) AY 6S		(8) 1 YR	(9) DEPOT		(10) ILLUSTRATIONS
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	OF MEAS	INC IN UNIT	(a)	(b) 21-50	(c)	(a)	(b) 21-50	(c)	ALM PER 100 EQUIP CNTGCY	100	(a) F16 NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
											1				DESTGRATION
P F A426	5315-935-3553	PIN, SPRING: 15-250-0500; (73975)		EA	2	•	1	1	•	1	1	13	6		
PF A427	5305-639-4777	SCREW, MACHINE: MS35233-27; (96906)		EA	27	2	14	8	1	1	2	101	75		
PF A428	5305-959-1082	SCREW, AP, SOCKET HEAD: SAMF AS A019		EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
PF A429	5305-990-6381	SCHEW, CAP, SOCKET HEAD: SAME AS A020		EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
X2-F A430		GUIDE, CHAIN: SAME AS A021		EA	2										
X2-F A431		GUIDE, CHAIN: SAME AS A021		EA	REF										
X2-F A432		GUIDE: SAME AS A023		EA	1										
4F-S 4433		STAGE ASSEMBLY: C17611-1; (02145)		EA	1										
P0 4434		STAGE GLASS ASSEMBLY: C17481; (02145)		EA	1	1	2	3	1	1	1	40	25	3-8	42
Q-0 1435		STRIP: B17310-1; (02145)		EA	1										
11-0 1436		STRIP: B17310-2; (02145)		EA	1										
II-0 1437		CAP, STAGE END: B17370; (02115)	:	EA	1										
11-0 1438		GLASS, STAGE: A16658; (02145)		EA	1										
11-0 1439		zushiom: B17585; (02145)		EA	2										
11-0 1440		CUSHION: SAME AS A <sup>1,</sup> 39		EA	REF										
11-0		DIFFUSER: A16657; (02145)		EA	1										
01-0 1442		SPACER, DIFFUSER: A17625; (02145)		EA	1										
2-F 443		CAM, STAGE SHIFT: B17251; (02145)		EA	1										
12-F	5303-984-7360	SCREW, CAP, SOCKET HEAD: MS35191-268; (96906)		EA	3										
F 1445		ROLLER: B16689-1; (02145)		EA	1	•	1	1	•	1	1	13	6	3-6	40
—F		FULLER: B16689-3; (02145)		EA	1	1	2	3	1	1	1	40	24	3-8	40
F 1447		POLLER: B15680_4; (02145)		EA	1	•	1	1		1	1	13	6	3-8	40
2-F		SHAFT: A16928; (02115)		EA	1									3-8	40
F		BEARING, BALL, ANNULAR: SFP168K25; (83086)		EA	6	lı	9	16	1	2	14	187	150		
P 450	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	İ	

(1) SMR CODE	(2) FEDERAL STOCK	(3) Description		(4) UNIT OF	(5) QTY INC IN		(6) NY DS M			(7) YGSF LLOMAN		(8) 1 YR ALW PER	MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USAR:. ON CODE	HEAS	UNIT	(a)	(b) 21-50	(c)	(a) 1-20	(ь) 21 <b>-</b> 50	(c) 51-100	100 EQUIP CNTGCY	100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
															-
P-F A451	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REP	REF	REF	REF	REF	REF	ref	REF	REF		
P—F 4452	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REP	REF	REF	REF	REF	REF	REF	REF	REF		
P—F A453	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF A454	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	ref	REF	REF	REP	REF	REF	REF	REF		
12-F 1455		GUIDE, STAGE: D17303-1; (02145)		EA	1									3-8	41
K2-F 1456		guide, STAGE: D17303-2; (02145)		EA	1									3-8	38
?—? 1457	5305-988-7602	screw, cap, socket, head: same as al38		EA	10	REF	REF	REF	REF	ref	ref	REF	REF	3–8	37
`_F 1458	5310-141-1795	washer, FLAT: AN960-416; (88044)		EA	3	1	3	5	1	1	1	46	27	3-8	39
F-S 459		STAGE ASSEMBLY: C17611-2; (02145)		EA	1										
0 460		STAGE GLASS ASSEMBLY: SAME AS Ab3b		EA	1	REF	ref	REF	REF	REP	REF	REF	ref	3-8	48
1-0 461		STRIP: SAME AS A435		EA	1										
1-0 462		STRIP: SAME nJ A436		EA	1										
1-0 162		STRIP: SAME AS A436		EA	1										
l=0 ∔63		CAP, STAGE END: SAME AS A437		EA	1										
.=0 164		GLASS, STAGE: SAME AJ A438		EA	1										
. <b>-</b> 0 65		CUSHION: SAME AS A439		EA	2	1	ļ								
-0 -66		CUSHION: SAME AS A439		EA	REF	ĺ	ĺ								
-c 67		DIFFUSER: SAME AS AUL1		EA	1										
-0 68		SPACER, DIFFUSER: SAME AS A442		EA	1										
-? 69		CAM, STAGE SHIFT: SAME AS A443		EA	1										
-F 70	5305-984-7360	SCHEW, CAP, SOCKET HEAD: SAME AS AUGU		EA	3										
-F		ROLLER: SAME AS AUU5		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-8	46
. <b>?</b> '?		ROLLER: SAME AS ALL6		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-8	46
. <b>?</b> '3		ROLLER: SAME AS A447		EA	1	REF	REF	REF	REF	ref	REF	REF	REF	3-8	46
7		SHAFT: SAME AS A448		EA	1		ĺ					İ			
<b>?</b> 5	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	6	REF	REF	REF	REF	REF	REF	REF	REF		
-						İ	ĺ	ĺ		ĺ		l			İ

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR CODE	(2) FEDERAL STOCK	(3) Description	(4) UNIT OF	(5) QTY INC IN		(6) AY DS P		30-D/	(7) AY GS I	MAINT NCE	ALM PER	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)	}
	NUMBER	LREFERENCE NUMBER & MFR. CODE CODE	MEAS	UNIT	(a) 1-20	(b)		(a)	(b)	(c)	EQUIP CNTGCY	100	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION	l
															١
PF A476	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	ref	REP	ref	REF	ref	REF	ref	ref	REF			
PF A477	3110-646-8166	BEARING, BALL, ANNULAR: SAME AS AU49	FA	ref	ref	ref	REF	ref	REF	rep	ref	ref			
PF A478	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	ref	REF	REF	REF	REF	REF	ref	REF	REF			
PF A479	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	ref	REF	ref	REF	ref	REF	REF	REF	REF			
PF A480	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	REF	REF	ref	REF	REP	REF	REF	REF	REF			
X2-F A481		GUIDE, STAGE: SAME AS A455	EA	-									3-8	47	
X2-F A482		GUIDE, STAGE: SAME AS A456	EA	1									3-8	44	
X2-F A493	5305-988-7602	SCREW, CAP, SOCKET HEAD: SAME AS A138	EA	10									3-8	43	
PF A484	5310-141-1795	Washer, Flat: SAME AS A458	EA	3	REF	REF	REP	REF	REF	ref	REF	REF	3-8	45	
X2-F A485		RETAINER, REAR, MODIFIED: C18363; (02145)	EA	1						'					
AF A486		MASK MECHATISM SUBASSETBLY: C18469-1; (02145)	EA	1											H
PF A487		BAR AND ROLLER SUBASSEMBLY: C18502-1; (02145)	EA	1	١.	•	1	*	•	1	8	3			
X2-F Al88		SHAFT, MASK: A18069; (02145)	EA	1											
P—F A489		BAR SUBASSEMBLY: B18501; (02145)	EA	1	•	1	1	•	1	1	13	6			
X2-F A <sup>1</sup> 90		BAR, LIGHT MASK: B18066; (02145)	EA	1											
X2-F A <sup>1</sup> 91		LICHT, MASK: B18324; (02145)	EA	1	1										
PF A492		PULLEY, MODIFIED: A18073; (02115)	EA	1	•	1	1	٠.	1	1	13	6			
PF A493		SPRING, HELCIAL, EXTENSION: LEO34C7; (84830)	EA	1		1	1	١.	1	1	13	6			
P—F A494		SPRING, MOTOR: B17719; (02145)	EA	1	•	1	1		1	1	13	6			
X2-F A495	5310-994-6964	nur, Plain, Hexagon: MS35650-83; (96906)	EA	1											
X2-F A496	5310-167-0878	WASHER, LOCK, INTERNAL TOOTH: AN936AlO; (88044)	EΑ	1											
X2-F A497		.RETAINER, REAR, MODIFIED: SAME AS AL85	EA	1											
AF A498		MASK MECHANISM SUBASSEMBLY: C18469-2; (02145)	EA	1											
PF A499		BAR AND ROLLER SUBASSEMBLY: C18502-2; (02145)	EA	1			1		•	1	8	3			20
X2-F A500		SHAFT, MASK: SAME AS 4488	EA	1											
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			I	l	l	l	ı	l	l	I	l	ì			

(1) SMR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION		(4) UNIT OF	(5) QTY INC IN		(6) AY DS M ALLOWAN			(7) AY GS I ALLOWA	uce.	ALLUFER	(9) DEPOT MAINT	(a)	(10) 1LLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100	100 EQUIP CNTGCY	ALMPER 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
PF		BAR SUBASSEMBLY: SAME AS A489		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
<b>12-F</b> 1502		LIGHT MASK: SAME AS A491		EA	1										,
<del></del>		PULLEY, MODIFIED: SAME AS A492		EA	1	REJ:	REF	REF	REF	REF	REF	REF	REF		ļ
-F		SPRING, HELICAL, EXILASION: SAME AS A493		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
F		SPRING, MOTOR: SAFE AS A494		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
2-F 506	5310-994-6964	NUT, PLAIN, HEXAGON: SAME AS A495		EA	1				]						
I2-F I507	5310-167-0878	WASHER, LOCK, INTERNAL TOOTH: SAME AS A496		EA	1										
F 508		ROLLEP SUBASSEMBLY: C18470; (02145)		EA	1									3 <b>-</b> 8	11
2-F 1509		SHAFT, STRAIGHT: A166~0; (02145)		EA	1										
—F		screw, MACHINE: A17387; (02145)		EA	1	1	1	2	1	1	1	27	12		
2-F		RELEASE: A17404; (021-5)		EA	1			ļ							
2-F 512		SPACER, SLEEVE: A17457, (02145)		EA	1										
P		ROLLER, RETRACT: B16688-1; (02145)		EA	1	1	1	2	1	1	1	27	12		
F		ROLLER, RETRACT: B16688-2; (01245)		EA	1	1	1	2	1	1	1	27	12		
F 515		ROLLER:		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		l
2-F 516		SETSCREW: MS51923-12; (96906)		EA	1			ĺ							i.
2-F 517		WASHER, FLAT: 200612; (02145)		EA	1										
F 518	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	6	RE F	REF	REF	REF	REF	REF	REF	REF		
—F 519	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
F 520	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		j
F	3110-640-8166	BEARING, BALL, ATMULAR: SAME AS A449		EA	PEF	REF	REF	PEF	REF	REF	REF	REF	REF		
F 522	3110-640-8166	BEARING, BALL, ANNULAR: SANT AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
F 523	3110-640-8166	BEAPING, BALL, ANNULAR: SAME AS A449		EA	PEF	REF	REF	REF	REF	REF	PEF	REF	REF		
2-F 524		SHELL: 50103L; (78643)		EA	1										
-F		SPRING, HELICAL, COMPRESSION: LCOSEDS, (84830)		EA	l	1	1	2	1	1	1	27	12		
-/															
ı															

(1) SMR CODE	(2) FEDERAL STOCK	DESCRIPTION			(5) QTY INC IN	30-DA	(6) Y DS M LLOHAN	AINT CE	30-DA	(7) YGS P LLOWAN	AINT CE	ALH PER	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a)	(b) 21-50	(c)	(a)	(b)	(c)	EQUIP CNTGCY	ALMPER 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
AF A526		ROLLER SUBASSEMBLY: SAME AS A508		EA	1									3-8	13
X2-F A527		SHAFT, STRAIGHT: SAME AS A509		EΑ	1										
PF A528		SCREW, MACHINE: SAME AS A510		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
X2-F A529		RELEASE: SAME AS A51		EA	1										
X2-F A530		SPACER, SLEEVE: SAME AS A512		EA	1										
PF A531		ROLLER, RETRACT: SAME AS A513		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
PF A532		ROLLER, RETRACT: SAME AS A514		EA	1	REF	REF	REF	REF	REF	ref	REF	REF		
PF A533		ROLLER: SAME AS A446		EA	1	KEF	REF	REF	REF	KEF	REF	ref	REF		
X2-F A534		SETSCREW: SAME AS A516		EA	1										
X2-F A535		WASHER, FLAT: SAME AS A517		EA	1										
PF A536	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A'49		EA	6	REF	REF	REF	REF	REF	REF	REF	REF		
P-F A537	3110-640-8166	PEARING, BALL, ANNULAP: SAME AS A449		EA	REF	REF	REF	REF	ref	REF	REF	REF	REF		
PF A538	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	ref	REF	REF	REF	REF		
P—F A539	3110-640-8166	BEARING, BALL, ANNULAR: ' SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
P-F A540	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS AUL9		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF A541	3110-640-8166	BEARING, HALL, ANNULAR: SAME AS ALL9		EA	REF	REF	REF	KEF	PEF	REF	REF	REF	REF		
X2-F A542		SHELL: SAME AS A524		EA	1							}			
PF A543		SPRING, HELICAL, COMPRESSION: SAME AS A525		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
AP A544		ROLLEP, SUBASSEMBLY: SAME AS A508		EA	1								1	3-3	11
X2-F A545		SHAFT, STRAIGHT: SAME AS A509		EΑ	1										
PF A546		SCREW, MACHINE: SAME AS A510		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
X2-F A547		RELEASE: SAME AS A511		EA	1					1			1	Ì	
X2-F A548		SPACER, SLEEVE: SAME AS A512		EA	1										
PF A549		ROLLER, RETRACT: SAME AS A513		EA	. 1	REF	REF	REF		REF		1	1	1	
PF A550		ROLLER, RETRACT: SAME AS A514		EA	.   1	REF	REF	REF	REF	REF	REF	REF	REF		
-		1		١	1	}	1	1	1	1		1	1		ł

(1) SAR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION			(5) QTY INC IN		(6) NY DS M		30-DA	(7) Y GS P LLOWAN	IA), NT	(8) } yr Alm Per 100	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b) ITEM NO. OR
	NUMBER		BLE ON	MEAS	UKIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(ь) 21-50	(c)	EQUIP CNTGCY	100 1	FIG NO.	REFERENCE DESIGNATION
<u>−</u> ₽ .551		ROLLER, RETRACT: SAME AS A446		EA	1	REF	REF	REF	REF	REF	REF	REF	HEF		
2-F 552		setscrew: Same as a516		EA	1										
2-F 553		WASHER, FLAT: SAME AS A517		EA	1										
—F 554	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	6	REF	REF	REF	REF	REF	REF	REF	rep		
F 555	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	ref	REF	REF	REF	rep		
—F 556	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A419		EA	REF	REF	REF	REF	REF	REF	PEF	REF	REF		
<b>F</b> 557	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
<b></b> ₹ 558	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
<b>—F</b> 559	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	ref	REF	REF	REF	REF	REF	ref	REF		
2 <b>-F</b> 560		SHELL: SAME AS A524		EA	1							!			
<b>-₽</b> 561		SPRING, HELICAL, COMPRESSION: S/ME AS A525	!	EA	1	REF	REF	ref	REF	REF	REF	REF	REF		
<b>-</b> F i62		ROLLER SUBASSEMBLY: SAME AS A508		EA	1									3-8	11
: <b>⊢</b> F ;63		SHAFT, STRAIGHT: SAME AS A509		EA	1										
—Р :64		SCREW, MACHINE: SAME AS A510		EA	1	ref	REF	ref	rep	REF	REF	REF	REF		
:=F :65		RELEASE: SAME AS A511		EA	1	ļ		}						}	
'-P '66		SPACER, SLEEVE: SAME AS A512		EA	1								İ		
-F 67		ROLLER, RETRACT: SAME AS A513		EA	1	ref	REF	REF	REF	REF	REF	REF	REF		
-F €8		POLLER, RETRACT: SAME AS A514		EA	1	REF	REF	REF	REF	REF	REF	HEF	REF		
-F 69		ROLLER: SAME AS AL46		EA	1	ref	REF	REF	REF	REF	REF	REF	REF		
-F 70		SETSCREW: SAME AS A516		EA	1										
-F 71		WASHEP, FLAT: SAME AS A517		EA	1										
- <b>?</b> 72	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9		EA	6	REF	REF	REF	REF	REF	REF	REF	REF		
-F 13	3110-640-8166	BEARING, HALL, ANNU AR: SAME AS A449		-	REF	REF	RET	REF	REF	REF	REF	REF	REF		
.? (b	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ABLO		έA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
. <b>F</b> '5	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS AUL9		EA	REF	HEF	REF	PEF	REF	REF	REF	REF	REF		
	I														

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9)		(10)
SMR CODE	FEDERAL STOCK	DESCRIPTION		UNIT	QTY INC IN		AY DS I ALLOWAI		<b>30-</b> 0/		MAINT NCE			(a)	ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a)	(b) 21-50	(c)	(a) 1-20	(b) 21-50	(c) 51–100	ALM PER 100 EQUIP CNTGCY	ALMPER 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
		l													
P—F A576	3110-640-8166	BEARING, BALL, AFNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	HEF	REF		
PF A577	3110-640-8166	BPARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
X2-F A578		SHELL: SAME AS A524		EA	1			'							
PF A579		SPRING, HELICAL, COMPRESSION: SAME AS A525		EA	1	REF	REF	REF	REF	REF	ref	REF	REF		
PF A580		LIGHT GRID ASSEMBLY: C18473-1; (02145)		EA	1	•	•	1	٠	٠.	1	8	3	3-8	50
X2-F 4581	5305-068-8431	SCREW, CAP, SOCKET HEAD: MS16996-13; (96906)		EA	5										
PF A582		LIGHT GRID ASSEMBLY: C18473-2; (02145)		EA	1		•	1	•	٠	1	8	3	3-8	49
X2-F A583	5305-068-8431	SCREW, CAP, SOCKET HEAD: SAME AS A581		EA	5										
AF A584		T-RAIL ASSEMBLY QUICK RELEASE: C18504; (02145)		EA	1										
X2-F A585		T-RAIL: C18350; (02145)		EA	1									3-8	6
X2-F A586		KNOB, T-RAIL: A18358; (02145)		EA	2									3~8	L.
X2-F A587		KNOB, T-RAIL: SAME AS A586		EA	REF			İ	İ					38	L.
PF A588		PIN, SPRING: A18356; (02145)		EA	1	1	1	2	1	1	1	27	12	3-8	5
X2~F A589		PIN: A16355; (02145)		EA	1										
X2-F A590		STANDOFF: A18354; (02145)		EA	2									3-8	3
X2-F A591		S1-NDOFF: SAME AS A590		EA	REF									3-8	3
PF 4592		SPRING, HELICAL, EXTENSION: LE02907; (84830)		EA	2	1	2	3	1	1	1	40	5,1	3-8	1
P—F A593		SPRING, HELICAL, EXTENSION: SAME AS A592		EA	REP	REF	REF	REF	REF	REF	REF	REF	REF	3-8	1
X2-F A594	5305-543-5080	SCREW, MACHINE: MS35223-2; (96906)		EA	2									3-8	2
AF A595		T-RAIL ASSEMBLY QUICK RELEASE: SAME AS A584		EA	1										
X2-F A596		T-RAIL: SAME AS A585		EA	1									3-8	6
X2-F A597		KNOB, T-RAIL: SAME AS A586		EA	2							1		3-8	r
X2F A598		KNOB, T-RAIL: SAME AS A586		EA	REF									3-8	ł.
PF A599		Pin, SPRING: SAMA AS A588		EA	1	REF	REF	KEF	RFF	REF	REF	REF	REF	3-8	5
X2-F A600		PIN: SAME AS A509		EA	1										

(1) SAR 300年	(2) FEDERAL STOCK	DESCRIPTION			(5) QTY INC IN	30-DA	(6) Y DS M LLOWAN	AINT CE	30-DA	(7) Y GS P LLOWAN		AI WUED	(9) DEPOT MAINT ALWPER	(a) FIG	(10) ILLUSTRATIONS (b) ITEM NO. OR
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21 <b>-</b> 50	(c) 51-100	(a) 1-20	(b) 21 <b>-</b> 50	(c) 51-100	100 EQUIP CNTGCY	100 EQUIP	NO.	ITEM NO. OR REFERENCE DESIGNATION
2-F 601		STANDOFF: SAME AS A590		EA	2									3-8	3
2-F		STANDOFF:		EA	REF									3-8	3
602 F		SAME AS A590SPRING, HELICAL, EXTENSION:		EA	2	REF	REF	REF	REF	REF	REF	REF	REF	3-8	1
603 F		SAME AS A592SPRING, HELICAL, EXTENSION:		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-8	1
60. 2 <b>-</b> F	5305-543-5080	AME AS A592		EA	2								•	3-8	2
605 2-F		SAME AS A594T-RAIL ASSEMBLY QUICK RELEASE:		EA	REF										
506 2-F		SAME AS AS84		EA	1									3-8	6
507 ?-F		SAME AS A585KNOB, T-RAIL:		EA	2							ļ		3-8	i.
508 2-F		SAME AS ASSO KNOB, T-PAIL:		EA	REF									3 <b>-</b> 8	ù
509		CAME AS A586		EA	1	REF	REF	REF	REF	REF	REF	HEF	REF	3-8	5
F 610		PIN, SPRING: SAME AS A588		1											
2-F 511		PIN: SAME AS A589		EA	1										_
2-F 512		STANDOFF: CAME AS A590		EA	2	]								3-6	
2-F 513		STANDOFF: SAME AS A590		EA	PEF									3-6	3
F 614		GPRING, HELICAL, EXTENSION: SAME AS A590		AΞ	5	PEF	REF	PEF	REF	PEF	PEF	PEF	REF	3-8	1
<b>7</b> 615		spring, Helical, EXTENSION: SAME AS A592		EA	PEF	REF	PEF	PEF	PEF	REF	FEF	REF	PEF	; <del>-</del> 8	i
2-= 616	5305-543-5080	SCREW, MACHINE: SAME AS ASS4		EA	5							1	Ì	3-9	7
2-F 617	E-Participation of the Partici	T-PAIL ASSEMBLY: SAME AS AS84		EA	PEF										
2 <b>-F</b> 61	revision de la company de la c	T-RAIL: SAME AS ASBS		EA	1					l			ĺ	٠	
2-F 619		KMOB, T-RAIL: SAME AS AF86		EA	2									<b>%_</b> 8	4.
2-F	Constant of Constant	KTMB, T-PAIL: SAME AS AS86		EA	PEF									3-8	ů.
620 <del>4-7</del>		PIN, SPPING: SAME AD A588		FA	1	PEF	PEF	PEF	REF	PEF	REF	REF	REF		5
68. 8 <del>-</del> 5	accepta	PIN:		EA	1										
622 2-5	Englished in the Control of the Cont	SAME AS ACTOTARISTY:		EA											
629 2 <b>-</b> F	e para di mana	CAME AS ATOS STANSORF:		EA	PEF										1
626 F		SAME AS A090 SPRING, MELICAL, EXTENSION:		EA		PRF	PEF	PEF	PEF	PEF	HEF	HEF	PEF		
52°	90444 **********************************	CAME AC 4190			1										

(1) SMR CODE	(2) FEDERAL STOCK	DESCRIPTION			(5) QTY INC IN	30-D	(6) NY DS P NLLOWAR	AINT ICE		(7) N GS I		(8) 1 YR ALM PER	(9) DEPOT MAINT ALMPER	1 - 7	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	HEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51–100	EQUIP CNTGCY	100	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
ļ		•													
PF A626		SPRING, HELICAL, EXTENSION: SAME AS A592		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-8	1
12-F 1627	5305-543-5080	SIREW, MACHINE:		EA	2									3-8	2
F 628		ROLLER ASSEMBLY, LOWER: C18511; (02145)		EA	1									3-8	22
—F 629	5305-988-7602	SCREW, CAP, SOCKET HEAD: SAME AS A138		EA	2	REF	REF	REF	REF	REF	REF	ref	REF	3-8	21
F 630		ROLLER, FTLM: B15149; (02145)		EA	2	1	1	2	1	1	1	27	12		
— <b>Р</b> 631		POLLER, FILM: SAME AS A630		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
<b></b> ⊃ 1632		BRACKET, ROLLER: B18300; (02145)		EA	2									3-8	23
<b>⊢−</b> D √633		BRACKET, ROLLER: SAME AS A632		EA	REF									3-8	23
⊢_D .634		SHAFT, STRAIGHT: B18323; (02145)		EA	2										
⊢-D .635		SHAPT, STRAIGHT: SAME AS A634		EA	FEEF										
— <b>F</b> 636	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	Į,	REF	REF	REF	REF	REF	REF	REF	REF		
—F 637	3110-640-8166	BEAFING, BALL, ANNULAR: SAME AS A449		FA	REF	REF	REF	REF	REF	PEF	REF	REF	REF		
—F 638	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
F 639	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
2-F 640		WASHER, FLAT: AN960-716L; (88044)		EA	8										
—F 641	5340-298-6564	RING, RETAINING: SAME AS ALOB		EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
F 642		ROLLER ASSEMBLY, LOWER: SAME AS A623		EA	1									3-8	22
F €43	5305-986-7601	SCHEW, CAP, SOCKET HEAD: SAME AS A208		EA	2	REF	REF	REF	REF	REF	REF	REF	REF	3-8	21
— F 644		ROLLER, FILM: SAME AS A630		EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
—F 645		ROLLER, FILM: SAME AS A630		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
D		BRACKET, ROLLER: SAME AS A632		EA	2									3–8	23
—D 647		BRACKET, ROLLER: SAME AS A632		EA	REF									3–8	23
D		SHAFT, STRAIGHT: SAME AS A63L		EA	2										
D 649		SHAPT, STPAIGHT: SAME AS A634		EA	REF										
—F 650	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALLO		£A	4	PEF	REF	PEF	REF	ref	REF	REF	REF		
				1	•										

) R	(2) FEDERAL	(3) DESCRIPTION		(4) UNIT	(5) QTY	30-DA	(6) Y DS M	AINT	30-DA	(7) Y GS P	AINT	(8) 1 YR ALW PER	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)	
E	STGCK NUMBER	US REFERENCE NUMBER & MFR. CODE	SABLE ON CODE		INC IN UNIT	(a)	(b) 21-50	(c)	(a)	(b)	(c)	ALW PER 100 EQUIP CNTGCY	100	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION	
-		REFERENCE INCOME & FIRST VONE				1-20										
P 1	3110-64/-8166	HEARING, BALL, ANNULAR: SAME AS A449		EA	REF	PEP	REF	ref	REF	REF	REF	REF	REF			
7. 2	3110-640-8166	BEARING, BALL, BANNULAR SAME AS A449		EA	REF	REF	REF	REF	ref	REF	REF	REF	REF			
F 3	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449		EA	REF	REF	REF	REF	REF	REF	REF	REF	PEF			
.F	5310-167-0838	WASHER, FLAT: SAME AS A640		EA	8											
. <b>?</b> 35	5340-298-6564	RING, RETAIRING: SAME AS ALO8		EA	2	REF	REF	REF	ref	REF	REF	REF	REF			
-D 56		BRACKET ASSEMBLY: B18515; (02145)		EA	2									_ ^		
- <b>?</b> 57	5305-988-7602	SAME AS A138		EA	2									3-8	19	
-D 58		PLATE, MOUNTING: 018296; (02145)		EA	1	ĺ								3-8	20	
-0 59		STRIKE: A18444; (02145)		EA	2									3-8	18	
-D 60		STRIKE: SAME AS A659		EA	REF									3-8	18	
-F 61	530 <b>=_988</b> _7:05	SCREW, C1P, SOCKET HEAD: SAME AS A056		EA	4	REF	REF	REF	REF	REF	REF	REF	REF	3-8	17	
-D 62		BRACKET ASSEMBLY: SAME AS A656		EA	REF											
-F 53	5305-98 <b>8-</b> 7602	screw, caf. socket head: same as albe		EA	2	REF	REF	REF	REF	REF	REF	श्रम	ÆF	3-8	19	
-D 64		Plate, mounting: SAME AS A658		EA	1									3-8	20	
-D 65		STPIKE: SAME AS A659		EA	2									3-3	18	
-0 66		STRIKE: SAME AS A659		EA	REF						Ì			3-8	18	
-₹ 67	5305 <b>-9</b> 89-7605	30°5W, CAP, SOCKET HEAD: SAME AS AC56		EA	Į,	PEF	REF	4EF	REF	REF	REF	REF	REF	3-8	17	
-D 68	Bongstah versus alore	PLATE: C18321-1; (02145)		EA	1											
-₽ 69		PLATE: C18321-2; (02145)		EΑ	1											
-F 79		SRACKET: 018366-1; (02145)		ĒΑ	1									{ 		
-f 71		BRACKET: c18366-2; (02145)		ĒΑ	1										!	
-F 72		50%, PNER: p18344; (02145)		EA	1										1	
		SLIDE: 316920; (02145)		EA	2									3-8	55	
- <b>?</b> 75		SLIDE: SAME AS A673		EA	PEF						ĺ			3-8	5>	
2-F 173 2-F 171 175 175	Programmy of the Control of the Cont	. RANDLE, MODIFIED: B17849; (C2145)		EA	2									3-6	25	
		5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5						İ					!			
					1	1	1					1		1		

Af 91	REFERENCE NUMBER A	D: (.)	USABLE ON CODE	EA EA EA EA EA EA	REF  1  1  2  PEF  2  PEF  1	(a)	AAY LES ALLOMA (b) 21-50	(c) 51-100	1-20	(b) 21-50	51-100	100 EQUIP CNTGCY	(9) DCPOT MAINT 100 EQUIP	(a) FiG	<u>IÆSIGNĀTIŌN</u> 25
A676  P—F A677  M—1 A618  A618  M—D A680  M—D A681  M—D A682  M—D A683  M—D A683  M—D A684  M—D A685  M—D A686  X2=F A686  X2=F A686  X2=F A689  X2=F A689  X2=F A689	HANDLE, MODIFIER SAME AS A675BUS BAR: E17264; (02145)LASEL: B17390; (02145)LASEL: B17391; (02145)LASEL: B17392; (02145)BRACKET, POLLER: B18299-1; (02145)BRACKET, POLLER: SAME AS A681BRACKET, POLLER: SAME AS A683ETTAINER: E18362; (02145)BRACKET, POLLER: SAME AS A683ETTAINER: E18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)BRACKET, ASSEMBLY B18362; (02145)	D: (.)	CODE	EA EA EA EA EA EA	1 1 1 2 PEF 2 PEF 1	1-20			1-20	21-50	51-100	<u>CNTGCY</u>	EQUIP	3-6 3-6 3-6	25 34 24 15
A676  P—P A677  M—1, A618  M—D A680  M—D A681  M—D A682  M—D A683  M—D A684  M—D A685  M—D A686  M—D A686  M—D A686  M—D A686  M—D A687  M—D A688	SAME AS A675 . BUS BAR:	; ; ; ;		EA EA EA EA EA EA	1 1 1 2 PEF 2 PEF 1		ì	1		1	1	4.	5	3-6 3-6	54 24 15
A677 M	E17861; (02145)LABEL: .B17990; (02145)LABEL: .B17391; (02145)LABEL: .B17392; (02145)BRACKET, POLLER: .B18299-1; (02145)BRACKET, FOLLER: .SAME AS A661BRACKET, FOLLER: .B18299-2; (02145)BRACKET, FOLLER: .SAME AS A683PETAINER: .SAME AS A683PETAINER:SAME AS A683PETAINER:SAME AS A683PETAINER:SAME AS A683PETAINER:SEMEAU, CO2145SCHEW, CVP, SOCKESCHEW, CVP, SOCKESCHEW, AT A138	:		EA EA EA EA EA	1 1 2 PEF 2 PEF 1	•	l	1		3	1	4.0	5	3-6. 3-8	2 <b>u</b> 15
## - D ##	B17590; (02145)LABEL: B17391; (02145)LABEL: B17392; (02145)BRACKET, POLLEP: B18299-1; (02145)BRACKET, ROLLEP: SAME AS A681ERACKET, POLLEP: B18299-2; (02145)BRACKET, POLLEP: B18298-2; (02145)BRACKET, POLLEP: SAME AS A683ETAINEH: B18562; (02145)BRACKET ASSEMBLY B18068-1; (02145)BRACKET ASSEMBLY B18068-1; (02145)BRACKET ASSEMBLY B18068-1; (02145)BRACKET ASSEMBLY B18068-1; (02145)BRACKET ASSEMBLY B18068-1; (02145)	5) 5) 5)		EA EA EA EA EA	1 2 PEF 2 PEF									3 <b>-</b> 8	15
######################################	B17391: (02145)LABEL: B17392; (02145)BRACKET, POLLEP: B18299-1; (02145)BRACKET, POLLEP: SAME AS A661ERACKET, POLLEP: SAME AS A662;BEACKET, POLLEP: SAME AS A662;ETAINEH: B18362; (02145)BRACKET, ASSEMBLY B16362; (02145)BRACKET, ASSEMBLY B16362; (02145)BRACKET, ASSEMBLY B16362; (02145)BRACKET, ASSEMBLY B16362; (02145)BRACKET, ASSEMBLY B16362; (02145)BRACKET, ASSEMBLY B16364; (02145)BRACKET, ASSEMBLY B16364; (02145)	5) 5) 5)		EA EA EA EA	1 2 PEF 2 PEF									3 <b>-</b> 8	15
A680 MD A681 MD A683 MD A683 MD A683 MD A686 X2=F A686 X2=F A686 X2=F A686 X2+F A689 X2+F A689 X2+F A689 X2+F A689 X2+F A689 X2+F A689 X2+F A689	B17392; (02145) BRACKET, POLLEP: B18299-1; (02145) BRACKET, BOLLER: SAME AS A681 ERACKET, POLLER: B18299-2; (02145) BRACKET, POLLER: SAME AS A682 FETAINER: B18362; (02145) BRACKET ASSEMBLY B18368-1; (02145) BRACKET ASSEMBLY B18368-1; (02145) SCPEM, CFP, SOCKE SAME AT A138	5) 5) 5)		EA EA EA EA	PEF									3 <b>-</b> 8	15
### D	B18299-1; (02145) BRACKET, BOLLER: SAME AS A681 ERACKET, BC11ER: B18299-2; (02145) BRACKET, BC11ER: SAME AS A683 FETAINER: 918362; (02145) BRACKET ASSEMELY P1808-1; (02145) BRACKET ASSEMELY P1808-1; (02145) SCPEW, CFP, SOCKE SAME AT A138	5) 5) 5)		EA EA EA	PEF 2 PEF										
### ##################################	SAME AS A681 ERACKET, POLLEH: 21829-2: (C2145) BRACKET, POLLEH: SAME AS A683 ETTAINEH: 218362: (O2145) BRACKET ASSEMBLY 218308-1: (O2145) SCPEW, CAP, SOCKE SAME AT A138	;) ;		EA EA	2 PEF									3 <b>-</b> ē	15
### A683   #### A685   #### A686   #### A6	B18299-2; (02115)  BRACKET, POILER: SAME AS A682  PETAINER: 218362; (02115)  BRAIKET ASSEMBLY 218008-1; (02115)  SCREW, CAP, SOCKE SAME AT A138	;; ; ;		EA EA	PEF 1										
### 2008   ### 2008	SAME AS A689PETAINEH:	: )		EA	1									Ì	
### ##################################	B18362: (02145)BPAIRLY ASSEMBLY B16508-1: (02145)SCPEW, CAP, SOCKE SAME AT A138	3											ı	1	
#666 #21-7 #667 #2-F #669 #2-F #669 #2-F #690 #2-F #690 #2-F #690	8-7602 -: SCPEN, CAP, SOCKE SAME AT A138	3		EA	1									3-6	3 <b>6</b>
X2-F A666 X2-F A669 X2-F A690 X1-F 5305-722 A191	SAME AT A138	ET HEAD:										5		3 <b>-</b> 6	19
#686 %2-7 #689 %2-7 #690 %1-9 5305-722 #691	METHOD LLCCT.			EA	2									9 <b>-</b> 2	9
#689 #2-F #690 #2-F   5305-722 #191	#EURT, SEACE: BI63%8; (19145)			EA	1						İ				
#690 XX-F   5305-722 Af 91	PIVOT, BRACE A1834T; (02145)			EA	1										
Af 91	BRACE, END PLATE A183%6-1; (021%5			EA	i										
FF 6355-988	2-9397######## ##51523-53; (969			EA	2						1		İ	İ	
±6 €:	8-7601SCREW, CAP, SOCK SAME AS ASOC	KET HEAD:		EA	2	PEF	PEF	REF	HEF	PEF	PEY	FZF	PEF	İ	
X2-ў 5110-994 Деог	SAME AD ALM	A707:		EΑ	2										
क्राच्या १९१८-५५८ संद्रा	(=0997  FAIJFREE: 繁215日=111 (969	≥g≮ ,		EA	1	İ				7000	l				
X-7 A699	PRACTOT ACCEMBLY: BIRSCR-2: (52240)			EA	1		ĺ				į		ACTIVITIES VALUE	; <sup>2</sup>	<del></del>
X°+7 (95°±6°°± A6°°	L-শাসুরএজেরম, এম., ১০জের এমত এম ১১৪৮	ET HEAL:		EA	2						7	ļ		;	
X2-3 1 97	YOUST, BRACE: CAME AS A£82			EA	:					1		-			
ZZ-F 14,0-5	PIVOG, BHACE: SAME AS A669			EA	:							ĺ	A 142	ļ	
7:-F 16:93		: ·		£å	:										
£147 (2004-10 - £100	-2 :			EA				j		İ			-		

(1) SMR CODE	(2) FEDERAL STOCK	OESCRIPTION			(5) QTY INC IN		(6) Ay DS P Alloway			(7) NY GS I		ALLIGED	(9) DEPOT MAINT	(a)	(10) Illustrations (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	HEAS	UNIT	(a)	(b)	(c)	(a)	(b)	(c)	EQUIP CNTGCY	ALMPEK 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
X2-F A701	5305-988-7601	STYEW, CAP, SOCKET HEAD: SAME AS A208		EA	2										
X2-F A702	5310-934-6964	nut, Plain, Hexagon: Same as Al95		EA	2							İ			
X2-F A703	5025-306-2657	FASTSNER: SAME AS A694		EA	1										
AF A704		CACCH ASSEMBLY: SAME AS AL62		Eia	1					İ				3-8	30
PF A705	5305-637-7079	SCREW, MACHINE: SAME AS A085		EA	1	ref	REF	ref	REF	REF	REF	REF	REF	3-8	27
X2~F A706	5310-167-0876	WASHER, LOCK, INTERNAL TOOTH: AN936A6; (88044)		EA	1									3-8	28
MD A707		CATCH: SAME AS AL63		FA	REF										
PF A708		SPRING, HELICAL, EXTENSION: SAME AS A164		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
AF A709		CATCR ASSEMBLY: SAME AS A162		EA	1									3-6	30
P—F A710	5305-637-7079	screw, machine: same as a085		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	3-8	27
X2-F A711	5310-167-0876	.WASHER, LOCK INTERNAL TOOTH: SAME AS A706		EA	1									3-8	28
MD A712		CATCH: SAM& AS A163		EA	1										
PF A713		SPRING, HELICAL, EXTENSION: SAMC AS A164		EA	1	REF	REF	esp	REF	Rue	REF	REF	REF		
MD A714		SCREEN, AIR INTAKE: B1U373; (02145)		EA	2										
MD A715		SCREEN, AIR INTAKE: SAME AS A714		EA	ref										
MD A716		GUIDE, LIGHT MASK: B18301; (02145)		EA	2										
MD A717		GUIDE, LIGHT MASK: SAME AS A716		EA	ref										
AF-S A718	<u> </u>	WORM MECLANISM ASSEMBLY: B17572; (02145)		EA	ì										
³—F 1719	5305-988-7603	SCREW, CAP, SOCKET HEAD: SAME AS 263		EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
<b>⊢-</b> D ₁720		SHAFT, STPAIGHT: A16660; (02145)		EA	1										
721	3120-324-6424	BEARING, FLANGED: SAME AS A014		EA	h	REF	REF	REP	REF	REF	REF	RFF	REF		
F 722	3120-324-6424	BEARING, FLANGED: SAME AS A014		EA	REF	REF	REF	PEF	REF	REF	ref	PEF	REF		
—₽ /23	3120-324-6424	BEARING, FLANGED; SAME AS A014		EA	REF	9001	REF	REF	REF	REF	REF	REF	REF		
-F 124	3120-324-6424	BLARING, FLANGED: SAME AS AOL		EA	REF	REF	REF	PEF	REF	REF	REF	REF	REF		
D '25		BRACKET: B17338; (02145)		EA	1										
I															

(1) SMR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION		(4) UNIT OF	(5) QTY INC IN		(6) Ay DS P Alloman			(7) IY 65 I ILLOHAI	WINT ICE	(8) 1 YR ALM PER 100	(9) DEPOT MAINT ALMPER 100	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-29	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21- <b>5</b> 0	(c) 51-100	EQUIP	100 Pluga	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
	1														
PF A726		coupling: A17570; (02145)		EA	1	•	1	2	•	ı	1	18	9		
X2-F A727		screw, cap, socket head: 4-40x5-16chsst: (70138)		EA	5										
PF A728	3020-640-4901	GEAR, WORM: HQTH; (71041)		EA	1	•	٠	1	•	٠	1	8	3		
PF A729	5315-853-0681	PIN, SPRING: MS16562-201; (96906)		EA	1	•	•	1	•	٠	1	8	3		
PF A730		MITER GEAR: A17410; (02145)		EA	1	1	1	2	1	1	1	27	12		
PF A''31	5315-823-8745	PIN, SPRING: MS16562-215; (96906)		EA	1	1	1	2	1	1	1	27	12		
PF A732	5310-771-3861	WASHER, FLAT: SAME AS ALOL		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
PF A733	5310-141-1795	Washer, Flat: Same as a458		БА	1	REF	REF	REF	REF	REF	REF	REF	nEF		
7-F 1734	5315-058-9731	PIN, SPRING: SAME AS A357		EΑ	1	REF	REF	REF	REF	REF	REF	REF	REF		
PF 1735		GEAR, WORM: A17477; (02145)		EA	1	•	•	1	•	•	1	8	3		
+-D 1736		SHAFT, STRAIGHT: A17336; (02145)		EA	1	!									
F 1737		ROILER, FILM: B16689-2; (02145)		EA	2	•	1	1	•	1	1	دَ1	6		
PF A738		ROLLER, FILM: SAME AS A737		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF N739		ROLLER, FILM: SAME AS A446		EA	5	REF	REF	REF	REF	REF	REF	æf	REF		
PF A740		ROLLER, FTLM: SAME AS A446		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF 1741		ROLLER, FILM: B16689-5; (02145)		EA	2	•	1	1	•	1	1	13	6		
PF AT42		ROLLER, FILM: SAME AS A741		EA	REF	REF	ref	REF	REF	REF	REF	REF	REF		
4D 1743		GUIDE, FILM: B18302; (02145)		EA	ì.										
<b>Կ</b> D <b>\</b> 7ԿԿ		GUIDE, FILM: SAME AS A7 <sup>1</sup> 3		EA	REF										
4D 4745		GUIDE, FILM: SAME AS A743		EA	REF										
4D 4746		GUIDE, FILM: SAME AS A743		EA	REF										
PF A747		CHAIN ASSEMBLY: B17241; (02145)		EA	1.	1	1	2	1	1	1	27	12		
P—F A748		CHAIN ASSEMBLY: SAME AS A747		EA	REF	REF	REF	ref	REF	FEF	REF	REF	ref		
PF A749		CHAIN ASSEMBLY: SAME AS A747		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
7F		CHAIN ASSEMBLY: SAME AS AT&T		EA	REF	REF	REF	REF	REF	REF	REF	PEF	REF		

(1) SXR CODE	(2) FEDERAL STOCK	DESCRIPTION	(4) UNIT OF	(5) QTY THC IN		(6) AY DS P		30-0/	(7) NY 6S I	AINT	(8) 1 yr Alwper	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
0000	NUMBER	REFERENCE NUMBER & MFR. CODE CODE	562 AC	CRIT	(a)	(b) 21-50	(c)	(a)	(6)	(c)	ALW PER 100 EQUIP CHTGCY	ALWPER 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
4B 1751		cover, magazine chain: B17341; (02145)	EA	i,										
←_D 1752		COVER, MAGAZINE CHAIN: SAME AS A751	EA	REF										
6D 1753		COVER, MAGAZINE CHAIN: SAME AS A751	EA	REF										
4—D 1754		COVER, MAGAZINE ("HAIN: SAME AS A751	EA	REF										
<b>1−−</b> D 1755		LABEL: B17482; (02145)	EA	1										
F-D 1756		COVER, FILTER: B18352; (02145)	EA	1										
:2-F :757	5340-839-9050	nut, self-locking, clinch: s632-2; (46384)	EA	L.										
<b>F</b> ∴58		BRACKET ASSEMBLY: B18553-1; (02145)	EA	1										
F 759	5305-988-7601	screw, cap, socket head: same as a208	EA	2	REF	REP	REF	REF	REF	REF	PEP	REF		
D 760		BRACKET, PULLEY: A18280; (02145)	EA	ı										
F 761		PULLEY, NYLON: N6172; (08863)	EA	1	1	1	2	1	1	1	27	12		
F 762		FASTEMER, PUSHNUT: PS062032; (77122)	EA	1	1	1	2	1	1	1	27	12		
—F 763	5315-844-5644	PIN, SPRING: SAME AS A017	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
F 764		BRACKET ASSEMBLY: SAME AS A750	EA	1										
F	5305-988-7601	screw, cap, socket head: same as a208	EA	2	REF	REF	REF	REF	REF	RZF	REF	REF		
D		BRACKET, PULLEY: SAME AS A760	EA	1										
r66 ∓		PULLEY, NYLON: SAME AS A761	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
167 :-₽		FASTENER, PUSHNUT: SAME AS A762	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
′68 –F	5315-844-5644	PIN, SPRING: SAME AS A017	EA	1	REF	REF	REF	REF	REF	REF	ref	REF		
-F		BRACKET ASSEMBLY: B18553-2; (02145)	EA	1										
70 -F	5305-988-7601	SCREW, CAP, SOCKET HEAD: SAME AS A208	EA	2	REF	REF	REF	REF	REF	ref	REF	REF		
71 -D		BRACKET, PULLEY: SAME AS A760	ĒΑ	1										
72 -F		PULLEY, NYLON: SAME AS A761	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	!	
73 -F		FASTENER, PUSHNUT: SAME AS A762	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
74 -F	5315-844-5644	PIN, SPRING: SAME AS A017	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
75	1	SAME AS AULI												
					l	İ								

SAR CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION			(5) QTY INC IN		(6) Ay DS I Alloma		30-D	(7) AY GS ALLOWA	MAINT NCE	(8) 1 YR ALW PER 100	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	HEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	I (C)	EQUIP	1 100	FIG NO.	ITEM NO. OP. REFERENCE DESIGNATION
AF AT76		FRACKET ASSEMBLY: SAME AS A770		EA	1				İ			Ì			
PP A777	5305-988-7601	SCREW, CAP, SOCKET HEAD: SAME AS A208		EA	2	REF	REF	REF	RBF	REF	REF	ref	REF		
MD A778		BRACKET, PULLEY: SAME AS A760		EA	1					1					
PF A779		PULLEY, MYLON: SAME AS A761		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
PF A780		FASTENER, PUSHRUT: SAME AS A762		EA	1	ref	æF	RET	REF	REF	REF	REF	REF		
PF A781	5315-844-5644	PIN, SPRING: SAME AS A017		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		
MD A782	:	BRACKET: B18110; (02145)		EA	1										
MD A783		LABEL: All471-1; (02145)		EA	1										
MD A784		SPACER: A18374; (02145)		EA	8										
MD A785		SPACER: SAME AS A784		EA	REF										
MD A786		SPACER: SAME AS A784		EA	REF										
MD A787		SPACER: SAME AS A784		EA	REF										
HD A788		SPACER:		EA	REF										
MD		SAME AS A784		EA	REF										
A789 MD		SAME AS A781		EA	REF										
A790 MD		SAME AS A784		EA	REF										
A791 PF		SAME AS A784GEAR, MITER:		EA	3	REF	REF	REF	REF	REF	REF	REF	REF		
A792 PF		SAME AS A730 GEAR, MITER:		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
A793 PF		SAME AS A730 GEAR, MITER:		EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
A794 MD		SAME AS A730 ELOCK:		EA	3										
A795 MD		A16669; (02145)		EA	REF										
A796		SAME AS A795		EA	REF										
MD A797		SAME AS A795			rer L										
MD A798		SAME AS A659		EA											
MD A799		STRIKE, T-RAIL: SAME AS A659		EA	REF										
MD A800		STRIKE, T-RAIL: SAME AS A659		EA	REF										

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR CODE	(2) FEDERAL STOCK	DESCRIPTION	(4) UNIT OF	(5) QTY INC IN		(6) Ny DS M WLOMAN		30-D/	(7) IY GS P	GAINT ICE	(8) 1 YR ALWPER 100	(9) DEPOT MAINT ALWPER	(a)	(10) ILLUSTRAYIONS (b) ITEM NO. GR
	NUMBER	USABLE OI REFERENCE NUMBER & MFR. CODE CODE	MEAS	UNIT	(a) 1-20	(b) 21-50		(a) 1-20	(ь) 21-50	(c)	EQUIP CNTGCY	100	FIG NO.	REFERENCE DESIGNATION
			-	, pro										
MD A801		STRIKE, T-RAIL: SAME AS A659	EA	REF										
MD A802		SPACER: A17622; (02145)	EA	1										
MD A803		SHAFT, STRAIGHT: A16661; (02145)	EA	2										
PF A804		SPROCKET: A17412; (021145)	EA	۱.	1	1	2	1	1	1	27	12		
PF <b>A</b> 805		SPROCKET SAME AS A804	EA	REF	REF	bek	REF	REF	REF	REF	REF	REF		
PF A806		SPROCKET: SAME AS A804	EA	REF	REF	ÆF	REF	REF	REF	REF	REF	RET		
PF A807		SPROCKET: SAME AS A804	EA	REF	REF	REF	REF	REF	REF	FEF	REF	REF		
MD A808		SHAFT, STRAIGHT: A16652; (021145)	EA	2				1						
MD A809		SHAFT, STRAIGHT: SAME AS A808	EA	REF										
PF A810		COUPLING: SAME AS A726	EA	2	REF	REF	REF	REF	REF	REF	REF	REF		
PF A811		COUPLING: SAME AS A726	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
MD A812		SHAFT, STRAIGHT: A16927; (02145)	EA	2										
MD A813		SHAFT, STRAIGHT: SAME AS A812	EA	REF										
F A814		ARM ASSEMBLY : A17274; (02145)	EA	2		1	1	•	1	1	13	6		
PF A815		ARM ASSEMBLY : SAME AS A814	EA	REF	REF	REF	REF	REF	REF	REF	PEF	REF		
MD AB16		BRACKET: SAME AS A165	EA	1			İ							
₩D A817		BRACKET: A18376-2; (02145)	EA	1										
YF 4818		SHAFT: A17337; (02145)	EA	1										
4-D 1819		BRACKET: A18311-1; (02145)	EA	2					}					
4D		. BRACKET: SAME AS A819	EA	REF	1			]						
4-D 1821		. BRACKET: A18311-2; (02145)	EA	2										
1921 1922		A10311-27 (U2145)  BRACKET: SAME AS A821	EA	PEF							1			
F-D 1823		SPACER:	EA	3	1									
<b>⊢-</b> D		A18312; (02145) SPACER:	EA	REF										
,824 H-D		SAME AS A823	¥.A	1							 			
.825		A18387; (02145)												
				ŀ										
		l		1	<u> </u>		l	<u> </u>	L	L_		<u>.                                    </u>		L

	NUMBER				QTY INC IN		(6) Y DS M LLOMAN		30-D/	T CON W	AINT ICE	1 YR ALWPER 100	DEPOT	(0)	ILLUSTRATIONS (b)
		PEFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a)	(b)		(a)	(b)	(c)	EQUIP ENTGCY	100	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
l'	1														
PF A326	5305-959-1909	SCREW, CAP, SOCKE? HEAD: SAME AS A258		EA	10	REF	REF	REF	REF	REF	REF	REF	REF	3-8	58
PF A827	5305-068-5276	screw, cap, socket Head: SAME AS A346		E.,	2	REF	REF	REF	REF	REF	REF	REF	REF	3-8	52
PF A828	5305-988-7602	SCREW, CAP, SOCKET HEAD: SAME AS A138		EA	12	REF	REF	REF	REF	REF	REF	REF	REF	3-8	7
P—F A829	5305-988-7601	SCREW, CAP, SOCKET HEAD: SAME AS A208		EA	39	REF	REF	REF	REF	REF	REF	REF	REF		
X2~F A830	5310-655-7287	NUT, SELF-LOCKING, HEXAGON: 22FTTM82; (72962)		EA	10										
P-F A831	5305-988-7603	SCREW, CAP, SOCKET HEAD: SAME AS A263		EA	32	REF	REF	REF	REF	REF	REF	REF	REF	3-8	17
PF A832	5305-637-8249	SCREW, MACHINE: SAME AS A384		EA	12	REF	REF	REF	PEF	REF	REF	REF	REF	3-8	35
PF A833	5305-637-7079	SCREW, MACHINE: SAME AS A085		EA	12	REF	REF	REF	REF	REF	REF	REF	REF	3-8	27
X2-F A834	5310-167-0876	WASHER, LOCK: SAMT AS A706		EA	7									3+8	28
X2-F A835	5305-068-5406	screw, cap, socket head: MS16996-15; (96906)		EA	L,										
X2-F A836	5310-167-0818	WASHER, FLAT: AN960-10; (88044)		EA	8										
PF 1º37	5305-958-6517	SCREW, CAP, SOCKET HEAD: SAME AS A042		EA	Li.	RET	REF	REF	REF	REF	REF	REF	inz. <sup>pr</sup>		
PF A838	5310-167-0816	WASHER, FLAT: SAME AS A086		EA	7	REF	REF	REF	REF	REF	REF	REF	REF		
X2-F A839	5305-984-6189	SCREW, MACHINE: MS35206-241; (96906)		EA	16										
X2~F A840	5305-988-7606	SCREW, CAP, SOCKET HEAD: MS16995-30; (96906)		EA	8							ļ			
X2~F A841		WASHER, FLAT: AN960-8L; (88044)		EA	8										
X2-F A842	5310-208-9255	nut, self-locking: 79nmo2; (72962)		EA	В										
X2~F A843	5305-984-4988	screw, Machine: MS35206-228; (96906)		EA	1										
X2-F A8bb	5305-576-0528	screw, Machine: MS35223-47; (96906)		EA	2										
X2-F A845	5310-605-3744	WASHER, LOCK: SAME AS Al16		EA	2										
X2-F A846	5305-988-7606	SCREW, CAP, SOCKET HEAD: SAME AS A840		EA	2										
X2-F A847	5305-988-7602	SCREW, CAP, SOCKET HEAD: SAME AS A138		EA	16										
PF A848	5315-823-8745	PIN, SPRING: SAME AS A731		EA	3	REF	REF	REF	REF	REF	REF	REF	REF		
PF A849	5325-202-1612	STUD, SNAP FASTENER: SAME AS A087		EA	2	REF	REF	REF	REF	REF	REF	RLF	REF		
X2-F A850		WASHER, FLAT: 515-875; (75495)		EA	2										

(1) SHR	(2) FEDERAL	(3) JESCREPTION	(4) UNI1			(6) Ay DS (			(7) AY 65		(8) 1 YR ALH PER	(9) DEPOT		(10) ILLUSTRATIONS
COSE	STOCK NUMBER	USABLE REFERENCE NUMBER & MFR. CODE CODE		INC I	(a)	(b) 21-50	(c)		(b) 21-50		100 EQUIP CHTGCY	<b>LALLY PER</b>	FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
				T										
P-F 4851	5310-141-1795	Washer, Flat: Eame as A458	EA	2	REP	REF	REP	REF	REF	REF	rep	REF		
PF		PIN, QUICK-RELEASE: BLS5B14sL10; (84256)	EA	2	•	1	1		1	1	13	6		
?F 1653	5315-823-8742		EA	2	•	1	1	٠ ا	1	1	13	6	3-8	51
(2-P 1854	5305-983-7447	surem, cap, sucket head: NE16998-73; (96906)	EA	1.		ļ		ļ					3-8	54
12-P 1855		screw, cap, socket head: same as ad66	EA								j			
12-F 1856	5305-984-6191	SCREW, MACHINE: ME35206-243; (96906)	EA	22				•						
2-F 857	5305-990-6381	SCREW, CAP, SOCKET HEAD: SAME AS A020	EA	l,										
F 858	5305-988-7605	SCREW, CAP, SOCKET HEAD: SAJE AS A056	EA	6	REF	RET	REF	REP	REF	REP	REF	rep		
P 859	5310-771-3861	Washer, Flat: Same as alcl	Eá	3	REF	REP	REF	REF	REP	REP	REP	REF		
F 860	5305-959-0382	SCREW, CAP, SOCKET HEAD: SAME AS A232	EA	3	REF	REF	REF	REF	REP	REF	PUED?	REP		
2-F 861	5305-622-1509	SCREW, MACRINE: ME3522-63; (96906)	EA	4				İ			İ			
-F 362	5305-990-6381	SCREW, CAP, SOCRET HEAD: SAME AS A020	EA	6	REF	REF	REF	REF	REF	ref	REP	REP		
<b>F</b> 363	5310-595-6211	Washer, Flat: Same as A062	EA	12	REF	REF	REF	ref	REF	REF	REF	REF		
?-P 364	5310-934-9739	NUT, PLAIN, HEXAGON: ME35649-242; (96906)	EA	6				Ì						
P 165	5305-959-1082	SCREW, CAP, SOCKET HEAD: SAME AS A019	EA	۱.	REF	REF	REF	REF	ref	REF	rep	REP		
:-P	5340-420-7606	CLAMP, LOOP: MS25281-4; (96906)	EA	1.										
∟ <b>₽</b> 67	5340-420-7606	CLAMP, LOOP: SAME AS A866	EA	REF			l				ł			
F 68	5340-420-7606	CLAMP, LOOP: SAME AS A866	EA	KEF										
-F 69	5340-420-7606	CLAMP, LOOP: SAME AS A856	EA	REF										
-F 70		MOUNT, RESILIENT: UT2-35; (76005)	EA	٤	•	1	1	•	1	1	13	6	3-8	56
-F 71		MOUNT, RESILIENT: SAME AS A8TO	EA	REF	REF	REF	REF	ref	REF	REP	REF	REF	3-8	56
-F 72	'5340-119-4791	MGUNT, RESILIERT: UT2-50; (76005)	EA	5		1	1	•	1	1	13	6	3-8	57
- <b>P</b> 13	5340-119-4791	MOUNT, RESILIEFT: SAME AS A672	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF	3-8	57
.p		KNOB, SPINNER: SAME AS AR75	EA	1									3-8	26
. <b>p</b> * '5		BALL, JOINT: S103; (78643)	EA	8	1	2	3	1	1	1	40	24	3-8	13
	'		1	1		[	[	ĺ	ĺ	ĺ				

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1) SMR CODE	(2) FEDERAL STOCK	OESCRIPTION	(4) UNIT OF MEAS	(5) QTY INC IN UNIT		(6) NY DS K NLLOMAN		30-04	(7) Y GS P LLOMAN	ALIKT ICE	ALMATO	(9) DEPOT MAINT ALMPER	(a)	(10) ILLUSTRATIONS (b) ITEM NO. OR
	NUMBER	REFERENCE NUMBER & MFR. CODE CODE	וויט	WIT.	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100	EQUIP CHTGCY	ALMPER 100 EQUIP	FIG NO.	REFERENCE DESIGNATION
P 876		BALL JOIYT: SAME AS A875	EA	REF	ref	REF	REF	REF	REF	REF	REF	REF	3-8	13
F 877		BALL JOINT: SAME AS ASTS	EA	rep	RE7	REF	REF	REF	REF	REF	REF	REF	3-8	13
F 878		BALL JOINT: SAME AS A875	EA	RE?	REP	REF	REF	REP	REF	REF	REF	REF	3-8	13
F 879		BALL JOINT: SAME AS ABT5	EA	REF	REF	REF	RET	REF	REP	REF	REP	REF	3-8	13
—F 880		BALL JOINT: SAME AS A875	EA	REF	REF	REF	REF	REF	REF	RE?	REF	REF	3-8	13
F 881		BALL JOINT: SAME AS A875	EA	REP	REF	REF	REF	REF	REF	REF	ref	REP	3-8	13
F 1882		BALL JOIET: SAME AS A875	EA	REF	REF	REF	REF	REP	REF	REF	REP	REF	3-8	38
F 1883	5325-766-7026	GROMMET, PLASTIC: G5TNB3; (03296)	E/.	1.	1	1	2	1	1	1	27	12		
F 884	5325-766-7026	GROMMET, PLASTIC: SAME AS A883	EA	REF	ref	REF	REP	REF	REF	REF	REF	REF		
F .885	5325-766-7026	GROMMET, PLASTIC: SAME AS A883	EA	REF	REF	RT .	REF	REF	REP	ref	REF	REF		
F 886	5325-766-7026	GROMMET, PLASTIC: SAME AS A883	EA	REF	REP	REF	REF	ref	REF	REF	ref	REF		
2-F 887	5325-721-7367	GROMMET, RUBBER: MS35490-1; (96906)	EA	2										
2-F 888	5325-721-7367	GROMMET, RUBBER: SAME AS A887	EA	REF										
F 889	3120-662-6787	BEARING, SLEEVE: FB&6-3; (71041)	EA	3	•	1	2	•	1	1	18	9		
PF 1890	3120-662-6787	BEAPING, SLEEVE: SAME AS A889	EA	PEF	REF	REF	REF	REF	REF	REF	REF	RET		
F 1891	3120-662-6787	BEARING, SLEEVE: SAME AS AB89	EA	REF	REF	REF	REF	REF	REF	REF	HEF	REF		
PF 1892	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A <sup>LL</sup> 9	EA	12	REF	REF	REF	REF	REF	REF	REF	REF		
F 1893	3110-640-8166	BEARING, BALL, ANNUTAR: SAME AS ALL9	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF A895	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF A896	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9	EA	REF	REF	REF	REF	REF	RE.	REF	REF	REF		
PF A897	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF 4898	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALL9	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
PF 1899	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	REF	REF	PEF	REF	PEF	REF	REF	REF	REF		
PF A900	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	REF	REF	REF	PEF	REF	REF	REF	REF	REF		

(1) SMR CUOE	(2) FEDERAL STOCK	(3) Description		(5) QTY INC IN		(6) AY DS P			(7) NY 65 I		(8) 1 YR ALW PER	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	USABLE ON REFERENCE NUMBER & MFR. CODE CODE	MEAS	UNIT	(a)	(b) 21-50	(c)	(a)	(b)	(c)	EQUIP CNTGCY	ALMPER 100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
							37.10	,		- 100				
PF A901	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS ALLO	EA	ref	REF	REF	REF	REF	REF	REP	REF	REF		
PF A902	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	REF	ref	REF	REF	ref	REF	REF	REF	REF		
PF 4903	3110-640-8166	BEARING, BALL, ANNULAR: SAME AS A449	EA	REP	REF	REP	REF	REF	ref	REF	REF	REP		
?—F -304	3120-662-0754	BEARING, THRUST: TB410; (71041)	EΑ	2	•	1	1	٠	1	1	13	6		
?F 1905	3120-662-0754	BEARING, THRUST: SAME AS A904	,EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
906	5315-045-2561	KEY, WCODRUFF: SAME AS A370	EA	4	R⊵F	REF	REF	REF	ref	REF	REF	REF		
—F 907	5315-045-2561	KEY, WOODRUFF: SAME AS A370	EA	REF	REF	REF	REF	REF	REF	REF	REF	PEF		ļ
F 908	5315-045-2561	KEY, WOODRUFF: SAME AS A370	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
P 909	5315-045-2561	KEY, WOODRUFF: SAME AS A370	EA	REF	REF	REF	REF	REF	REF	REF	REF	HEF		
F 710	3120-723-6758	BEARING, SLEEVE: FF636-2; (70901)	EA	2		1	1	,	1	1	13	6		
-F 111	3120-723-6758	BEARING, SLEEVE: SAME AS A910	EA	REF	REF	REF	REF	REF	REF	REF	REF	REF		
-F	5315-240-1014	PIN, SPHING: MS16562-5; (96906)	EA	4										
-F 13	5975-273-0788	strain relief: SR6P1; (28520)	EA	1										
-D 14		POWER CORD: 174125; (16428)	EA	1										
-F L5		CLAMP, LOOP: MS25281=6; (96906)	EA	3										
•F 16		CLAMP, LOOP: SAME AS A915	EA	REF										* !
F 7		CLAMP, LOOP: SAME AS A915	EA	REF										
F 8	6740-464-9198	DIMMER ASSEMBLY: B16221; (02145)	EA	1	•	•	1	•	•	1	8	3		
F 9		FAN: B16432; (02145)	EA	1	٠		1	•	•	1	8	3		
F D		CAPACITOR, FIXED, PAPER, DIELECTRIC: C280AE; (73445)	EA	1	•	•	1	•	•	1	8	3		
, l	5910-241-9589	CAPACITOR, FIXED, PAPEP, DIELECTRIC: SAME AS A160	· A	1	PEF	PEF	REF	REF	REF	REF	PEF	REF		
?		DIODE BRIDGE ASSEMBLY: 108D6A; (81348)		1		•	l	•	٠	1	8	3		
1		FUSE, CAPTHIDGE: 3AG9; (71400)	EΑ	1	1	2	٩	1	1	1	40	25		
		FUSE, CAPTRIDGE: 3AG3; (71400)	EA	1	3	7	. 3	1	2	3	164	12¢		
	5915-081-4831	FILTER: :JX29; (56269)	EA	2	٠	1	ì	•	1	1	13	$\epsilon$		

(1) SMR CODE	(2) FEDERAL STOCK	DESCRIPTION			(5) QTY INC IN		(6) IY DS H LLOMAN		30-D/	(7) NYGS! NLLOWAN	AINT ICE	ALM PER	(9) DEPOT MAINT ALMPER	(a)	(10) ILLUSTRATIONS (b) ITEM NO. OR
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100	EQUIP CNTGCY	100	FIG NO.	REFERENCE DESIGNATION
PF <b>A9</b> 26		FILTER: SAME AS A925		EA	REP	REF	REF	REF	REF	REF	REF	REF	REP		
PF A927	15905-556-3350	.RESISTOR, VARIABLE: RVNNAYSDIO3A; (81349)		EA	1	•	•	1	•	٠	1	8	3		
P+-F <b>A9</b> 28	15930-296-9034	SWITCE, TOGGLE: SAME AS A034		EA	1	REF	REP	REF	REF	REF	REF	REF	REP		
PF A929	5905-556-4105	HESISTOR, VARIABLE: RV4MF 5D104A; (81349)		EA	1	•	•	1	•	•	1	8	3		
PF A930	5950-648-1764	TRANSFORMER: P8130; (97965)		EA	1	•	•	1	•	•	1	8	3		
PF A931		TRANSFORMER: T58354; (90159)		EA	2	•	1	ì		1	1	13	6		
PF A932		TRANSPORMER: SAME AS A931		EA	REF	REF	PEF	REF	REF	REF	REF	REP	REF		
X2-F A933	5940-272-2906	TEPMINAL BOARD: 5-170; (71785)		EA	3										
X2-F A934	5940-272-2906	terminal board: same as a933		EA	REF										
X2-F A935	5940-272-2906	TEFMINAL BOARD: SAME AS A933		EA	PEF				l				ļ		
X2-F <b>A93</b> 6		STRAP TIE: TY21M; (18321)		EA	45										
X2-F A937		STRAP TIE: SAME AS A936		EA	REF							l			
X2-F A938		STRAP TIE: SAME AS A936		EA	REF										
X2-F A939		SAME AS A936		EA	REF										
X2-F A940		STRAP TIE: SAME AS A936		EA EA	REF										·
X2-F		SAME AS A936		EA	REF										
X2-F A942		SAME AS A936		EA	REF								}		
X2-F A943		STRAF TIE: SAME AS A936 STRAP TIE:		EA	PEF										
X2-F A9hh X2-F		SAME AS A936		EA	REF										
X2-F A945 X2-F		SAME AS A936		EA	REF										
A946 X2-F		SAME AS A936 strap Tie:		EA	REF										
A947 X2-F		SAME AS A936		EA	PEF										
A948 X2-F		SAME AS A936 STPAP TIE:		EA	PEF										
A949 X2-F		SAME AS A936 strap Tie:		EA	PEF										
A950		SAME AS 493f					1			1					

SPR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION			(5) QTY INC IN	30-0	(6) IY DS P ILLOMAN	AINT ICE		(7) IYGS I ULLOHAI		ALH PER	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUPBER	REFERENCE NUMBER & MFR. CODE	USABLE ON Text	MEAS	UNIT			(c) 51-109		(b)	(c)	EQUIP CNTGCY	ALWPER 100 EQUIP	(a) FiG NO.	ITEM NO. OR REFERENCE DESIGNATION
$\top$															
-P 151		STRAP TIE: SAME AS A936		EA	rzp										
9-P 952		STRAP TIE: SAME AS A936		EA	PEF										
2-P 253		STRAP TIE: SAME AS A936		EA	PZF										
-F		STRAP TIE: SAME AS A936		EA	REP										
		STRAP TIE: SAME AS A936		EA	REP										
?-F 956		STRAP TIE: SAME AS A936		EA	REF										
2-F 957		STRAP TIE: SAME AS A936		ZA	rep	:									
2-F 958		STRAP TIE: SAME AS A936		έA	ræf										
2-F 959		STRAP TIE: SAME AS A936		EA	rep										
2-F 960		STRAP TIE: SAME AS A936		EA	ref										
2-F 961		STRAP TIE: SAME AS A936		EA	REP										
2-F 962		STRAP TIE: SAME AS A936		EA	ref										
2 <b>-F</b> 963		STRAP TIE: SAME AS A936		EA	REF										
2-F 964		STRAP TIE: SAME AS A936		EA	REF										
2-P 965		STRAP TIE: SAME AS A936		EA	REF				1						
2-F 966		STRAP TIE: SAME AS A936		EA	REF				Ì						
2-F 967		STRAP TIE: SAME AS A936		EA	REF				i						
2-F 968		STRAP TIE: SAME AS A936		EA	REF										
2-F 969		STRAP TIE: SAME AS A936		EA	REF										
2-F 970		STRAP TIE: SAME AS A936		EA	REF										
2-F 971		STRAP TIE: SAME AS A936		EA	REF										
2-F 972		STRAP TIE: SAME AS A936		EA	PEF										
2-F 973		STRAP TIE: SAME AS A936		EA	REF										
?-F 974		STRAP TIE: SAME AS A936		EA	REF										
?-F 975		STRAP TIE: SAME AS A936		EA	REF										

	P (2)													
(1) SMR CODE	(2) FEDERAL STOCK	(3) Description	(4) UNIT Or	(5) QTY INC IN		(6) NY DS M NLLOWAN		30-D	(7) NY GS I NLLOMAN	HAINT NCE	(8) 1 yr Alw fer	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	USABLE ON	MEAS	UNIT	(a)	(b)	(c)	(a)	(b)	(c)	ALW PER 100 EQUIP	ALMPER 100	FIG NO.	ITEM NO. OR REFERENCE
<b>-</b>		REFERENCE NUMBER & MFR. CODE CODE	├	$\vdash$	1-20	21-50	51-100	1-20	21-50	51-100	CHTGCY	EQUIP	NO.	DESIGNATION
				i										
X2-F A976		STRAP TIE: SAME AS A996	EA	FEF										
X2-F A977		STRAP TIE: SAME AS A936	EA	REF										
X2-F A978		STRAP TIE: SAME AS A936	EA	ref										
X2-F A979		STRAP TIE: SAME AS A036	EA	rieip										
X2-F A980		STRAP TIE: SAME AS A936	EA	REF										
G0-T A981		.STEREDSCOPE, AR135A: SME689312GH2; (54197)	EA	1										
P2-0-T <b>A</b> 982	6675-478-6175	200M 240: 53-70-25; (06175)	EA	1	•	1	1	•	1	1	13	6		
P0 A983		EYEGUARD: 31-05-64; (06175)	EA	2	•	•	1	•	•	1	16	8		
P0 A984		eyeguard: same as a983	EA	REF	ref	REF	REF	REF	REF	REF	REF	REP		
P0 A985	6650-986-5197	EYEPIECE, 20X: 31-05-63-02; (06175)	EA	2	•	1	1	•	1.	1	13	6		
P0 <b>A986</b>	6650-986-5197	EYEPIECE, 20X: SAME AS A985	EA	REF	REF	REF	REF	REP	REF	rep	REF	REF		
P2-0-T A987	6675-478-6177	MONO LENS, 0.5X: 53-70-32; (06175)	EA	1	•	•	1	•	•	1	10	1,		
P0 A988		eyeguard: 31-05-68; (06175)	EA	2	•	•	1	•		1	10	4		
P0 <b>A</b> 989		eyeguard: same as a989	EA	REF	REP	REF	REF	REF	REP	REF	REF	REF		
P0 A990	6675-478-6205	E/EPIECE: 537096-220; (06175)	EA	2	•	•	1		_ '	1	10	14		
P0 <b>A99</b> 1	6675-478-6205	EYEPIECE: SAME AS A990	EA	REF	REF	ref	REF	REF	REF	REF	REF	REF		
P2-0-T <b>A99</b> 2		ADAPTER, SLIDE: 53-70-27; (06175)	EA	1	•	•	1			1	8	3		
P2-0-T A993		.RHOMEOID, ARM: 53-70-26; (06175)	EA	2	•	1	1		1	1	13	6		
P2-0-T A994		.RHOMBOID, ARM: SAME AS A993	EA	REF	REF	PSF	REF	REF	REF	REF	REF	REF		
1														
											1	i		

## SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER

FEDERAL STOCK NUMBER	ITEM Sequence Number	FEDERAL STOCK NUMBER	ITEM Sequence Number	FEDERAL STOCK NUMBER	ITEM Sequence Number
NUMBER	NUMBER	<b>11</b>	H		<u> </u>
3020-640-4476	<b>A</b> 145	3110-640-8166	<b>A</b> 577	3120-662-8165	<b>A</b> 156
3020-640-4476	A229	3110-640-8166	A636	3120-662-8165	A379
3020-640-4401	A728	3110-640-8166	A637	3120-662-8165	a390
3110-640-8166	A1149	3110-640-8166	A638	3120-662-8165	#361
3110-640-8166	A450	3110-640-8166	A639	3120-662-8165	A382
3110-640-8166	A451	3110-640-8166	A650	3120-723-6758	A910
3110-640-8166	A452	3110-640-8166	A651	3120-723-6758	A911
3110-640-8166	A453	3110-640-8166	A652	3120-725-6598	A127
3110-640-8166	A4=4	3110-640-8166	A653	3120-725-6598	A190
3110-640-8166	A475	3110-640-8166	A892	3120-787-9013	A364
3110-640-8166	A476	3110-640-8166	A693	3120-787-9013	A365
3110-640-8166	A477	3110-640-8166	A994	3120-787-9013	<b>A</b> 366
3110-640-8166	A478	3110-640-8166	A895	3120-787-9013	A367
3110-640-8166	A479	3110-640-8166	A896	3120-787-9013	#368
3110-640-8166	A480	3110-640-8166	A897	5305-013-3359	A399
3110-640-8166	A518	3110-640-8166	A898	5305-043-6476	A234
3110-640-8166	A519	3110-640-8166	A899	5305-051-6751	A092
3110-640-8166	A520	3110-640-8166	A900	5305-051-6751	A235
3110-640-8166		3110-640-8166		5305-051-6751	
3110-640-8166	A521	3110-640-8166	A901	5305-068-5276	A346
	A522	3110-640-8166	A902	1	AB27
3110-640-8166	A523	3110-940-8166	A903 A374	5305-068-5406 5305-068-5411	A335
3110-640-8166	A536				A130
3110-640-8166	A537	3120-324-6424	A014	5305-068-5411	A193
3110-640-8166	A538	3120-324-6424	A015	5305-068-5415	A349
3110-640-8166 3110-640-8166	A539	3120-324-6424	<b>A</b> 016	5305-068-8431	<b>A</b> 581
	\$5\$ D	3120-324-6424	A424	5305-068-8431	<b>A</b> n∂3
3110-640-8166	A*41	3120-324-6424	A+C+	5305-208-4961	<b>A</b> 318
3110-640-8166	<b>4</b> 554	3120-324-6424	<b>A</b> T21	5305-208-4961	A166
3110-640-8166	Asss	3120-324-6424	ATRO	5305-272-8533	A241
3110-640-8166	ASSE	3120-324-6424	ATT /	5305-272-8533	A352
3110-640-8166	A <sup>RR</sup> 7	3120-324-6424	AT24	5305-241-3120	<b>A</b> 363
3110-640-8166	<b>A</b> 55 <b>8</b>	3120-555-7544	Apgn	5305-531-9520	A129
3110-640-8166	A559	3120-661-4991	A3779	5305-531-9520	A190
3110-640-8166	A: 72	3120-662-0754	A904	9905=F\$ 4=5198	ASTR
3110-640-8166	Ac21	3120-662-0754	¥30:	Krosekupepéti	A 4
3110-640-8166	A574	3120-662-6797	A≗PĢ	KR05-543-50-0	A1 94
3110-640-8166	<u>*</u> ε⊐ε,	3120-662-6797	ARGO	# 90# # # # 10 B0	Ar 14
3110-640-8166	A: "A	3120-662-6797	Asol	1301-143-40+1	Ar vir

## SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	ITEM Sequence Number
5305-543-5080	M62°	5305-984-7367	ALLL	5305-990-6381	A233
5315-550-5011	A146	5305-984-7360	A470	5305-990-6381	A268
5315-550-5011	A230	5305-988-1721	A343	5305-990-6381	A347
5305-576-0528	ASAL	5305-988-7601	A208	5305-990-6381	A429
5305-622-1509	<del>48</del> 61	5305-988-7601	A214	5305-990-6381	n257
5305-637-7079	<b>A</b> 0 <del>8</del> 5	5305-988-7601	A643	5305-990-6381	A862
5305-637-7079	A109	5305-988-7601	A692	5310-045-4007	A158
5305-637-7079	A259	5305-988-7601	A701	5310-141-1795	A458
5305-637-7079	<b>47</b> 05	5305-988-7601	A759	5310-141-1795	A161
5305-637-7079	<b>A7</b> 10	5305-988-7601	A765	5310-141-1795	A733
5305-637-7079	<b>A</b> 633	5305-988-7601	A771	5310-141-1795	A851
5305-637-8249	4384	5305-988-7601	A7T7	5310-167-0797	A128
5305-637-8249	¥835	5305-988-7601	A829	5310-167-0797	A191
5305-638-2260	A351	5305-988-7602	A136	5310-167-0816	A086
5305-639-4777	A427	5305-988-7602	A299	5310-167-0816	A167
5305-656-8320	A350	5305-988-7602	A457	5310-167-0816	A4C3
5305-728-9397	A691	5305-988-7602	<b>894A</b>	5310-167-0816	A838
5305-722-9397	A700	5305-988-7602	A629	5310-167-0818	A836
5305-958-6517	A042	5305-988-7602	A657	5310-167-0838	A640
5305-958-6517	A089	5305-988-7602	A663	5310-167-0838	A654
5305-958-6517	<b>A</b> 637	5305-988-7602	<b>A</b> 687	5310-167-0876	A706
5305-959-0379	As-1	5305-988-7602	A696	5310-167-0876	A711
5305-959-0379	ALLL	5305-988-7602	A828	5310-167-0876	A834
5305-959-0382	A232	5305-988-7602	748A	5310-167-0878	a':96
5305-959-0382	A413	5305-988-7603	A263	5310-167-0878	A507
5305-959-0382	<b>A</b> 660	5305-988-7603	A385	5310-208-9255	A842
5305-959-1082	A019	5305-988-7603	A719	5310-262-5076	All7
5305-959-1082	Acce	5305-988-7603	A851	5310-275-1993	A119
5305-959-1082	A42F	5305-988-7605	A056	5310-275-1993	A143
5305-959-1082	P (SE)	5305-988-7605	A168	5310-275-1993	A182
5305-959-1909	AL E	5305-988-7605	A25€	5310-275-1993	A227
5305-959-1909	ARS*	5305-988-7605	A6€1	5310-595-6211	A062
5305-978-93446	بلطق ۾	5305-988-7605	A667	5310-595-6211	A065
5305-978-9346	A 345	5305-988-7605	Afre	5310-595-6211	A310
5305-983-7447	A95 <u>4</u>	5305-988-7606	ASUG	5310-595-6211	A313
5305-984-4988	ASL3	5305-988-7606	A9≒€	5310-595-6211	A863
5305-984-6189	A639	5305-990-6381	AGPG	5310-655-7287	0£6 <b>A</b>
5305-984-6191	ARSF	5305-990-6381	.0 <b>9</b> F	5310-685-3744	All6

# SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER	ITEM SEQUENCE MUMBER	FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	LTEM SEQUENCE NUMBER
5310-685-3744		5315-847-3735		5340-954-1141	
5310-685-3744	A845	5315-853-0681	A729	5340-954-1141	A293
5310-771-3861	ALOL	5325-202-1612	A087	5340-998-0612	ALOI
5310-771-3861	A732	5325-202-1612	A266	5340-998-0612	1402
5310-771-3861	A859	5325-202-1612	A849	5355-556-0151	A033
5310-809-4058	A102	5325-306-2357	<b>A</b> 694	5841-921-8692	A369
5310-914-8217	A405	5325-306-2357	A703	5905-542-9440	AC32
5310-934-9739	<b>A</b> 864	5325-721-7367	A387	5905-556-3350	A927
5310-934-9748	1355	5325-721-7367	<b>A688</b>	5905-556-4105	A929
5310-994-6964	A495	5325-766-7026	E83A	5910-241-9589	A160
5310-994-6964	A506	5325-766-7026	488A	5910-241-9589	4921
5310-994-6964	A693	5325-766-7026	<b>A</b> 885	5915-081-4831	A925
5310-994-6964	A702	5325-766-7026	A886	5915-081-4831	A926
5310-949-6284	A255	5340-103-0689	A112	5920-050-4953	A037
5315-039-5563	A393	5340-103-0689	A113	5920-280-4998	650A
5315-045-2561	A370	5340-119-4791	A872	5920-892-9311	A035
5315-045-2561	A906	5340-119-4791	A873	5920-892-9311	A036
5315-045-2561	A907	5340-209-9371	A099	5930-296-9034	#EDA
5315-045-2561	1908	5340-209-9371	<b>A10</b> 0	5930-296-9034	A110
5315-045-2561	A909	5340-209-9371	A264	5930-296-9034	A928
5315-058-9698	A394	5340-209-9371	A265	5930-514-7576	A153
5315-058-9731	A357	5340-222-8562	480A	5940-272-2906	A933
5315-058-9731	A734	5340-298-6564	801A	5940-272-2906	A934
5315-240-1014	A912	5340-298-6564	A226	5940-272-2906	A935
5315-753-3892	A136	5340-298-6564	A252	5940-283-5280	A149
5315-753-3892	A199	5340-298-6564	A641	5950-648-1764	A930
5315-823-8742	A853	5340-298-6564	A655	6650-986-5197	<b>A9</b> 85
5315-823-8745	A731	5340-420-7606	A866	6650-986-5197	<b>A9</b> 86
5315-823-8745	A848	5340-420-7606	, i, e <sup>*</sup> *	6740-246-8013	A069
5315-828-3251	A103	5340-420-7606	A868	6740-246-8013	A292
5315-841-4442	A254	5340-420-7606	A869	6740-249-8800	AC70
5315-844-5644	A017	5340-720-8064	A396	6740-249-8800	A29h
5315-844-5644	A763	5340-807-6638	A148	6740-249-8801	AOST
5315-844-5644	A769	5340-817-5516	A237	6740-249-8801	A390
5315-844-5644	A775	5340-817-5516	A238	6740-464-9198	A918
5315-844-5644	A761	5340-825-5906	A073		
5315-847-3735	A054	5340-839-9050	A757		
5315-847-3735	A212	5340-865-0219	4359		

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
	<b>—</b>			7				
REF NO.	<u> 1676 00.</u>	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MOFG CO.	ITEM SEQ. NO.
ALJ122026SS	96881	A277	A16554	02145	A328	A16760	02145	A211
ADJ122026SS	96881	A278	A16556	02145	A332	A16760	02145	A217
ADJ122026SS	96881	A279	A16557	02145	A334	A16762	02145	A052
ADJ122026SS	96881	A280	A16562	02145	A335	A16761-1	02145	A194
AN936ALC	86011	4496	A16561-2	02145	A178	A16765	02145	A122
AN936A10	58044	<b>A</b> 507	A16565	02145	A387	A16765	02145	A185
AN936A6	88044	A706	A16565	02145	A388	A16766	02145	A123
AN936A6	88011	A711	A16566	02145	A330	A16766	02145	A124
AN936A6	68044	A834	A16567	02145	A333	A16766	02115	A186
AN960-10	44088	A836	A16568	02145	A406	A16766	02145	A187
AN960-416	88011	A458	A16569	02145	A386	A16768	02145	A172
A7960-416 AN960-416	66011	ALSL	A16579 A16579	02145	A339	A16768	02145	A173
AN960-416	68044	A733 A851	A16580	02145 02145	A407	A16769	02145	A125
•	68044	#for			A329	A16769	02145	A188
AN960-416L			A16589	02145	A331	A16770	02145	A281
AN960-416L AN960-416L	68044	A732	A16652	02145	A808	A16770	02145	A282
		A859	A16652	02145	A809	A16770	02145	A283
AN960-6 AN960-6	88077 88077	A086 A167	A16654 A16657	02145	A336	A16770 A16771	02145	A284
AN960-6	68977		A16657	02145 02145	A467		02145	A323
AN960-6	68077	A%3 A83€	A16656	02145	A438	A16775 A16776	02145 02145	A322 A326
		-					02145	
AN960-716L	66077	A610	A16660	02145	AL6L	A16835		A126 A189
A1960-716L A1960-8L	88011	A654 A841	A16661	02145	A720 A803	A16835 A16849	02145 02145	A183
AN960C3	88627	V758	A16669	02145	A795	A16915	02145	A137
AN960C3	68044	A191	A16669	02145	A796	A16916-2	02145	A055
AN960C8	68014	A116	A16669	02145	A797	A16927	02145	A∺12
An96008	88044	A139	A16670	02145	A509	A16927	02145	A813
AN960C8	68044	A845	A16670	02145	A527	A16928	02145	A448
A11471-1	02145	A783	A16670	02145	A545	A16928	02145	A474
A12176	02145	A179	A16670	02145	A563	A16944	02145	A397
A12176	02145	A180	A16731-1	02145	A096	A16944	02145	A398
A15459	02145	A160 A316	A16731-2	02145	A096 A097	A17165	02145	A141
		A310	A16732	02145	A170	A17165	02145	A253
A15914 A16328	02145 02145	A110	A16732	02145	A171	A17166	02145	A154
A16328	02145	A410	A16737-2	02145	A140	A17166	02145	A288
A16357	021-5	110A 7EEA	A16746	02145	A210	A17167	02145	A155
A16554	02145	A327	A16746	02145	A216	A17167	02145	A289

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK Number	1	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	
				7			• •	
REF TO.	MFG CO.	ITEM SEQ. NO.	HEF NO.	MFG CO.	ITEM SEQ. NO.	REF MC.	MFG CO.	ITEM SEQ. NO.
17215	02145	1159	A17457	02145	A512	A18355	02145	A589
17219	02145	A078	A17457	02145	A530	A18355	02145	200A
17219	02145	A081	A17457	02145	A548	A18355	02145	A611
17218	02145	A272	A17457	02145	A566	A18355	02145	# <sub>25</sub>
17218	02145	A275	A17477	02145	A735	A18356	02145	<b>4</b> 588
17220	02145	A077	A17570	02145	A726	A18356	02145	A599
17220	02145	A080	A17570	02145	A810	A18356	02145	A610
17220	92145	A271	A17570	02145	A811	A18356	02145	<b>A</b> 621
17226	02145	A274	A17622	02145	A802	A18358	02145	<b>A</b> 586
17253	02145	A067	A17625	02145	A442	A18358	02145	<b>4587</b>
17253	02145	A068	A17625	02145	A468	A18358	02145	AL · a
17259	CHILE	A389	A17649	02145	A408	A18358	02145	<b>A</b> 609
17272	02145	A083	A18069	02145	A488	A1 8358	02145	A619
17274	02145	A814	A18069	02145	A500	A18358	02145	A620
17274	02145	A815	A18073	02145	A492	A18358	02145	A597
17336	02145	A736	A18073	02145	A503	A18358	02145	<b>A</b> 598
17337	02145	A818	A18280	02145	A760	A18374	02145	A784
.7339	02145	A725	A18280	02145	A766	A16374	02145	<b>A</b> 785
7397	02145	A510	A18280	02145	A772	A18374	02145	<b>A</b> 786
7387	02145	A528	A18280	02145	A778	A18374	02145	A767
7387	02145	A546	A18311-1	02145	A819	A18374	02145	A786
7387	02145	A564	A18311-1	02145	A820	A1837L	02145	A789
7404	02145	A511	A18311-2	02145	AP21	A18374	02145	A790
7404	02145	A529	A18311-2	02145	A820	A18374	02144	A791
74.04	02145	A5L7	A18312	02145	A823	A18375	02114	A163
7404	02145	<b>A</b> 565	A18312	02145	A° 24	A18375	02145	A707
7410	02145	A730	A18346-1	02145	<b>A</b> €90	A18375	02145	AT12
*410	02145	A792	A19346-2	02145	A699	A18376-1	00145	A1#5
<b>,1</b> 10	02145	A *93	A18347	02145	A649	A18376-1	92145	A916
110	02145	A794	A18347	02145	A698	A18376-2	02145	4817
410	02145	<b>A</b> 804	A18354	07145	<b>A</b> 5.99	A18391	07145	A132
412	02145	<b>A</b> 805	Alegel	02145	A591	A18381	00145	A195
412	02145	<b>A</b> 806	A18255	02145	A601	A19397	02145	Afic
412	02145	A807	A1º354	02145	A€na	A18411	02145	AC 39
426	02145	A021	A1835	02145	<b>A</b> £12	A18411	02145	<b>A</b> 240
<b>126</b>	02145	A022	9163c#	02145	A613	A1841:	02144	<b>A</b> 300
106	02145	06.4A	A18<54	02145	A623	A1641?	92145	A301
126	02145	A431	A19354	02145	A624	Aletta	02145	A659

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER	1.1	ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER
	7		<del> </del>	— —			<b></b>	فينجيب الباديبيييي
REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MPG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
A18444	02145	<b>A</b> 660	B16317	02145	A221	B16767	02145	A151
A18444	02145	A665	B16319	02145	A315	B16767	02145	A152
A18444	02145	A666	B16432	02145	A919	B16779	02145	A228
A18444	02145	A798	B16578	02145	A318	B16808	02145	A120
A1844	02145	A799	B16588	02145	A321	B16814	02145	Alli
Al Shah	02145	A800	B16675	02145	A317	B16834	02145	A175
11866	02145	A801	в16688-1	02145	A513	B16841	02145	A090
118603-2	02145	A011	B16688-1	62145	A531	B16841	02145	A091
T18608-5	02145	A045	в16688-1	02145	A549	в16860	02145	A121
118608-2	02145	A046	B16688-1	02145	A567	B16860	02145	A184
r18608-5	02145	A047	B16688-2	02145	A514	B16865-3	02145	A118
118623	02145	A131	B16688-2	02145	A532	B16867-2	02145	A371
u8623	02145	A231	B16688-2	02145	A550	B16867-4	02145	A114
18632	02145	A150	B16688-2	02145	A568	B16868	02145	A101
LS5B14SL10	84256	A852	B16 <b>689-1</b>	02145	A445	B16873	02145	A225
0375-015	92830	A255	в16689-1	02:45	A471	B16874	02145	A142
12133	02145	A070	B16689-2	02145	A737	B16894-1	02145	A051
12133	02145	A294	B16689-2	02145	A738	B16895	02145	A207
12137	02145	A071	B16689-3	02145	Apre 9	B16895	02145	A213
12137	02145	A297	B16689-3	02145	A472	B16902	02145	A181
12138	02145	A072	B16689-3	02145	A515	B16920	02145	A673
12138	02145	A295	B16689-3	02145	A533	B16920	02145	A674
312139	02145	AG69	B16689-3	02145	A551	B16946	02145	A111
12139	02145	Az 92	B16689-3	02145	A569	B16971-2	02145	A400
12142	02145	A057	B16689-3	02115	A739	B16991-3	02145	A01-1
12142	02145	A390	B16689-3	02145	A740	B16994-1	02145	A209
15016-2	02145	A2:	B16689-4	02145	ALLT	B16994-1	02145	A215
15016-2	02145	A20:	B16689-4	02145	A473	B16994-2	02145	A383
15149	02145	<b>a</b> €30	B16689-5	02145	A741	B16994-3	02145	A053
15149	02145	A631	B16689-5	02115	A742	B17182-2	02145	A287
15149	02145	абы	B16695	02145	A219	B1724	02145	A747
115149	02145	A645	B16695	02145	A220	B17241	02145	A748
15778	02145	A314	B16738	02145	A200	B17241	02145	A749
16221	02145	A918	516748-1	02:45	A391	B17241	02145	A750
316296-1	02145	A203	B16748-1	02145	A392	B17249	02145	A675
316296-1	02145	A204	B16748-2	02145	A319	B17249	02145	A676
316296-2	02145	A205	B16748-2	02145	A320	817251	02145	V1'1'3
316296-2	02145	A206	B1 <i>676</i> 1	02145	A117	B17251	02145	A469

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER	1 1	ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
				<b>—</b>			7,	
REF NO.	187G CO.	ITEM SEQ. NO.	REP NO.	MPG CO.	ITEM SEQ. NO.	REP NO.	MDFG CO.	ITEM SEQ. NO.
17264	02145	A677	B18110	02145	A782	B18508-1	02145	A686
17266	02145	880A	B18299-1	02145	A681	B18508-2	02145	A695
17310-1	02145	A435	B18299-1	02145	A682	B18513	02145	A162
17310-1	02145	A461	B18299-2	02145	A683	B18513	02145	A704
17310-2	02145	A436	B18299-2	02145	A684	B18513	02145	A709
17310-2	02145	A465	B18300	02145	A632	B18515	02145	A656
17341	02145	A751	B18300	02145	A633	B18515	02145	A662
17341	02145	A752	B18300	02145	A646	B18516	02145	A267
17341	02145	A753	B18300	02145	A647	B18553-1	02145	A758
17341	02145	A754	B18301	02145	A716	B18553-1	02145	A764
1736?	02145	A012	B18301	02145	A717	B18553-2	02145	A770
17367	02145	A013	B18302	02145	A743	B18553-2	02145	A776
17367	02145	A422	B18302	02145	A744	B18634	02145	A174
17367	02145	A423	B18302	02145	A745	B34-3	71041	A373
17368	02145	A010	B18302	02145	A746	B46-3	71041	A127
17368	02145	A011	B18323	02145	A634	B46-3	71041	A190
17368	02145	A420	B18323	02145	A635	CAU4147CL00	72625	A395
17368	02145	A421	B18323	02145	A648	C1129R	81640	A376
17370	02145	A437	B18323	02145	A649	C12320-2	02145	A060
17370	02145	A463	B18324	02145	A491	C12320-2	02145	A063
17379	02145	A009	B18324	02145	A502	C12320-2	02145	ROEA
L7379	02145	A419	B18348	02145	A688	C12320-2	02145	A311
17390	02145	A678	B18348	02145	A697	C16291-2	02145	A224
17391	02145	A679	B18352	02145	A756	C16581	02145	A307
17392	02145	A680	B18361	02145	A269	C16583	02145	A306
.7482	02145	A755	B18362	02145	A685	C16587	02145	A303
.7572	02145	A718	B18367-1	02145	A222	C16590	02145	A305
.7585	02145	A439	B18368	02145	A050	C16995	02145	A304
7585	02145	A440	B18369	02145	A223	C17321	02145	A008
7585	02145	A465	B18370	02145	A048	C17321	02145	A418
7585	02145	A466	B18373	02145	A714	C17481	02145	A636
7587	02145	A023	B18373	02145	A715	C17481	02145	A460
7587	02145	A432						.1
7719	02145	A494	B18377 B18377	02145	A176 A177	C17611-1 C17611-2	02145	A433 A459
7719	02145	A505	B18412		A286	1	02145	A658
1847	02145	A270	•	02145		C18296 C18296		A664
1898	02145	A412	B18495	02145	A031 A489		02145	A668
3066	02145	AL90	B18501	02145		C18321-1	02145	
A100	02145	AMYU	B18501	02145	A501	C18321-2	02145	A669

#### SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER	<b></b>	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	STOCK SEQUENCE		FEDERAL STOCK NUMBER	<b></b>	ITEM SF <sub>U</sub> UENCE NUMBER
HEF NO.	MPG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MPG CO.	ITEM SEQ. NO.
C18349	02145	A024	D17340-1	02145	A416	FF636-2	70901	A911
:18350	02145	A585	D1 /340-2	02145	A007	FG1-1022-904	27780	A133
C18350	02145	A596	D17340-2	02±45	A417	FG1-1022-904	27780	A196
C18350	02145	A607	D17573-2	02145	A005	FG1-1024-901	27780	A135
C18350	02145	A618	r17580-2	02145	A415	FG1-1024-901	27780	► A198
C18363	02145	A485	D18277-1	02145	A025	FHH26G1	71400	A035
C18363	02145	A497	D18277-2	02115	A026	FHN 26G1	71400	~ A036
C18366-1	02145	A670	D18344	02145	A672	F02A250V1	81349	A037
C18366-2	02145	A671	D18371	02145	A030	G57NB3	C3296	A883
c18469 <b>-</b> 1	02145	A486	D18372	02145	A027	G57WB3	03296	A884
218469-2	02145	A498	D18503	02145	A028	G57NB3	03296	A885
C18470	02145	A508	D18505	02145	A002	G57MB3	03296	A886
C16470	02145	A526	D18521	02145	OHOA	HDTH	71041	A145
C18470	02.145	A544	D18523	02145	A039	HDTH	71041	A229
C18470	02145	A562	FB35-2	71041	A290	HDUH	83086	A363
C18473-1	02145	A580	FB35-3	71041	A156	нотн	71041	A728
C18473-2	02145	A582	FB35-3	71041	A379	HRTMS2D	07886	A376
218502-1	02145	A187	FB35-3	71041	A380	HRTMS2D	07886	A377
C18502-2	02172	A499	F935-3	71041	A381	HS25020-12	73957	A073
C18504	02145	A584	FB35-3	71041	A382	HU54A4K	99041	A369
C18504	02145	A595	FB46	71041	A364	HW3201	44560	A360
C18504	02145	A606	PB46	71041	A365	LC032D3	84830	A525
C18504	02145	.617	FB46	71041	A366	LC032D3	84830	A543
C18511	02145	A628	FB46	71041	A367	LC032D3	84830 84830	A561 A579
c18511	02145	W6/15	FB46	71041	A368	LC032D3	84830	A075
C18517	02145	A049	FB46-2	71041	A014	LC055F3	84830	A293
C223	27545 73445	A374 A920	FB46-2	71041	A015 A016	LC055F3	84830	A592
C280AE C426ARF80	73445	A160	FB46-2	71041 71041	A424	LE029C7	84830	A593
C426ARF80	73445	A921	FB46-2 FB46-2	71041	A424 A425	LE029C7	84830	A603
D16791	02145	A302	FB46-2	71041	A721	LE029C7	84830	A604
D16919-1	02145	A003	FB46-2	71041	A722	LE029C7	84830	A614
D16919=1 D16919=2	02145	A004	FB46-2	71041	A723	LE029C7	84830	A615
D17303-1	02145	A455	FB46-2	71041	A724	LE029C7	84830	A625
D17303-1	02145	A481	FB46-3	71041	A889	LE029C7	84830	A626
D17303-2	02145	A456	FB46-3	71041	A890	LE034C7	84830	A493
D17303-2	02145	A482	FB46-3	71041	A891	LE034C7	84830	A504
D17340-1	02145	A00b	FF636-2	70901	A910	1.E055D3	84830	A164
			ì					

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER
	<b></b>			<b>—</b>			<b></b>	
REP NO.	METG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
LE055D3	84830	A708	MS16995~10	96906	A341	MS16995-26	96906	A687
LE055D3	84830	A713	ME16995-10	96906	A414	MS16995-26	96906	A696
ш-6	71041	A242	ME16995-14	96906	84EA	MS16995-26	96906	A826
L1-6	71041	A243	MS16995-16	96906	A092	M516995-26	96906	<b>748</b> 4
MB15795-803 •	96906	A062	MS16995-16	96906	A285	MS16995-27	96906	A263
MS15795-803	96906	A065	MS16995-17	96906	A232	MS16995-27	96906	A385
MS15795-803	96906	A310	MS16995-17	9€906	Al:13	MS16995-27	96906	A719
MS15795-803	96906	A313	MS16995-17	96906	A860	MS16995-27	96906	A831
MB15795-803	96906	A863	MS16995-19	96906	A019	MS1(995-29	96906	A056
MS16562-190	96906	A054	MS16995-18	96906	A058	MS16995-29	96906	A168
MS16562+190	96906	A212	MS16995-18	96906	A428	MS16995-29	96906	A256
MS16562-190	96906	A218	MS16995-18	96906	A865	M516995-29	96906	<b>A66</b> 1
MB16562=191	96906	A394	MS16995-19	96906	A020	MS16995-29	96906	A667
MS16562-194	96906	A017	MS16995-19	96906	A098	MS16995-29	96906	A858
MB16562-194	96906	A763	MS16995-19	96906	A233	MS16995-3	96906	A130
<b>451</b> 6562 <b>-</b> 194	96906	A769	MS16995-19	96906	A268	MS16995-3	<i>9</i> 6906	A193
<b>\$1</b> 6562 <b>-</b> 194	96906	A775	MS16995-19	96906	A347	MS16995-30	96906	A840
<b>©</b> 165€.'=194	96906	A781	MS16995-19	96906	A429	MS16995-30	96906	A846
<b>E</b> 16562-200	96906	A146	MS16995-19	96906	A857	MS16995-9	96906	A346
<b>B</b> 16562 <b>-2</b> 00	96906	A230	MS16995-19	96906	A862	MS16995-9	96906	A8a-
<b>E</b> 16562 <b>-</b> 201	96906	A729	MS16995-20	96906	A349	MS16996-11	96906	A258
B16568-211	96906	A393	MB16995-25	96906	ACC 9	MS16996-11	96906	A826
B16562-213	96906	A357	MS16995-25	96906	A214	MS16996-12	96906	A042
B16562-213	96906	A734	MS16995-25	96906	A643	MS16996-12	96906	A089
B16562-215	96906	A731	MS16995-25	<b>9</b> 6906	A692	MS16996-12	96906	A837
516562-215	96906	A948	MS16995-25	96906	A701	MS16996+13	9690€	A581
316562-216	96906	A1 36	MS16995-25	9690€	A759	MS16996-13	96906	A583
316562-216	96906	A199	MS16995-25	96906	A765	MS16996-15	96906	A335
316562-223	96906	A103	MS16995-25	96906	A771	MS16997-18	96906	A3LL
316562-224	96906	A254	M316995-25	96906	A777	MS16997-20	96906	A345
116562-252	96906	4853	MS16995-25	96906	A829	MS16998-73	96906	A851
116562-5	96906	A912	MS16995-26	96906	A138	MS20341-6B	96904	A147
16624-1025	96906	A396	MS16995-26	96906	A299	MS21326-1	96906	A087
16624-4025	96906	Al08	MS16995-26	96906	A457	MS21326-1	96906	A266
16624-4025	96906	A226	MS16995-26	96906	A483	MS21326-1	96906	A849
16624-4025	96906	A252	MS16995-26	96906	A629	MS21332-11	96906	A694
16624-4025	96906	A641	MS16695-26	96906	A657	MS21332-11	96906	A703
16624-4025	96906	A655	MS16995-26	96906	A663	MS25281-4	96906	A866

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL Stock Number		ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER
	$\dashv \vdash$		<del> </del>	<del></del>			1	
ref no.	MPG CO.	ITEM SEQ. BO.	REP NO.	MOPG CO.	ITEM SEQ. NO.	REF NO.	MPG CO.	ITEM SEQ. NO.
M525281-4	96906	AB67	NS35338-41	96906	A158	N6172	08863	A779
MS25281-4	96906	A868	NS35490-4	96906	A887	PS062032	77122	A762
MB25281-4	96906	AB69	MS35490-4	96906	<b>AB8</b> 8	PS062032	77122	A768
MB25281-6	96906	A915	MS35649-242	96906	<b>486</b> 1	PS062032	77122	A774
<b>6</b> 25281 <b>-</b> 6	96906	A916	MS35649-244	96906	A355	PS062032	77122	A780
<b>4</b> 825281 <b>-</b> 6	96906	A917	MS35650-83	96906	A495	PS188007	77122	A405
625281 <b>F</b> 2	96906	A401	NG35650-83	96906	A506	PT25	94882	A074
S25281F2	96906	A402	M635650-83	96906	A693	PT25	94882	A298
1527183-10	96906	¥705	MS35650-83	96906	A702	P8130	97965	A930
<b>6</b> 35191 <b>-</b> 268	96906	ALL	M535756-32	96906	A370	RV4HAYSD103A	81349	A927
<b>6</b> 35191-268	96906	A470	NE35756-32	96906	A906	RV4KBYSD104A	81349	A929
£35206-228	96906	AB43	NS35756-32	96906	A907	RV4mbysd503A	81349	A032
MB35206-241	96906	A839	NS35756-32	96906	A908	R18522	02145	A169
<b>4</b> 535206-243	96906	A856	MS35756-32	96906	A909	SC#83314-28S	98003	A093
<b>6</b> 35206 <b>-</b> 277	96906	A343	MS51021-34	96906	A351	SCB83314-288	98003	A094
<b>6</b> 35221-15	96906	A234	MS51023-12	96906	A516	SCB83314-255	98003	A235
£35223 <b>-</b> 2	96906	A594	N651023-12	96906	A534	SCB83314-288	98003	A236
<b>6</b> 35223 <b>-</b> 2	96906	A605	NE51023-12	96906	A552	SCRETWHDSET8-32X7-8	70276	A115
MS35223-2	96906	<b>A6</b> 16	NE51023-12	96906	A570	SCRCAPSCHSST6-32X1	70138	A161
<b>6</b> 35223 <b>-</b> 2	96906	A627	MS51023-48	96906	A353	SFR168K25	83086	A449
MS35223-26	96906	A085	MS51023-49	96906	A241	SFR168K25	83086	A450
<b>6</b> 35223-26	96906	A109	M551023-49	96906	A352	SFR168K25	83086	A451
MS35223-26	96906	A259	MS51023-53	96906	A691	SFR168K25	83086	A452
MS 35223-26	96906	A705	MS51023-53	96906	A700	SFR168K25	83086	A453
MB35223-26	96906	A710	MS51029-51	96906	A354	SFR166K25	83086	A454
<b>4</b> 535223 <b>–2</b> 6	96906	A833	H551923-1 <b>9</b> 7	96906	WOF3	SFR168K25	83086	A475
MS35223-27	<b>9690</b> δ	A018	NB59231-196	96906	A157	SFR168K25	83086	A476
MB35223-27	96906	A166	<b>16</b> 59231-196	96906	A291	SFR168K25	83086	A477
MS35223-32	96906	A076	MS91528-1D2B	96906	A033	SFR168K25	83086	A478
MB35223-39	96906	A350	NPS17S2LE	07886	A375	SFR168K25	83086	A479
MB35223-43	96906	A384	MPS17S2LE	07886	A874	SPR168K25	83086	C84A
MB35223-43	96906	A832	N14318	72525	A338	SFR168K25	83086	A518
MS35223-47	96906	A844	N14B18	72625	A372	SFR168K25	83086	A519
MB35224-63	96906	A861	N5712	08863	A112	SFR168K25	83086	A520
MS35233-2	9~306	A129	N5712	08863	A113	SFR168K25	83086	A521
MS35233-2	96906	A192	N6172	08863	A761	SFR168K25	83086	A522
MB35233-27	96906	A427	N6172	08863	A767	รเคาเช้ชีส์25	83086	A523
MB35241-19	96906	A399	N6172	08863	A173	SFR168K25	83086	A536
			1					
						l		

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER	1 1	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER
			ſ	7			7 7	1
REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MPG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
SFR168K25	83086	A537	SPR1883PK25	83086	A105	TY24M	18321	A941
3PR168K25	83086	A538	SFR1883PK25	83086	A106	TY24M	18321	A942
3FR168K25	83086	A539	SFR1883PK25	83086	A107	TY24 <b>M</b>	18321	A943
3FR168K25	83086	A540	SFR1883PK25	83086	A250	TY24M	18321	A944
3FR168K25	83086	A541	SFR1883PK25	83086	A251	TY24M	18321	A945
IPR168K25	83086	A554	SFR43PK25	83086	A244	TY24M	18321	A946
IFR168K25	83086	A555	9 <b>FR</b> 43FK25	83086	A245	тугчи	18321	A947
FR168K25	83086	A556	SFR43PK25	83086	A246	TY24 <b>M</b>	18321	A948
FR168K25	83086	A557	SFR43PK25	83086	A247	TY24M	18321	A949
FR168K25	63086	A558	SFR43PK25	83066	A248	TY24M	18321	A950
FR168K25	83086	A559	SFR43PK25	83986	A249	TY24M	18321	A951
PR168K25	83086	A572	SPR43PK25	83086	A361	TY24N	18321	A952
PR168K25	83086	A573	SPR43PK25	83086	A362	тү24и	18321	A953
PR168K25	83086	A574	SME689309	94197	A001	TY24 <b>M</b>	18321	A954
PR168K25	83086	A575	SME689312GR2	94197	A981	TYShM	18321	A955
7R168K25	83086	A576	SRC3	24011	A324	TY24 <b>M</b>	18321	A956
70168K25	83086	A577	SR6P1	28520	A913	TY24M	18321	A957
71.68K25	83086	A636	SO1C 3L	78643	A524	TY24M	18321	A958
R168K25	83086	A637	S0103L	78643	A542	тү24м	18321	A959
R168K25	83086	a638	S0103L	78643	A560	TY24M	18321	A960
R168K25	83086	A639	S0103L	78643	A578	TY24M	18321	A961
R168KE5	83086	A650	s.03	78643	A875	TY24M	18321	A962
R168K25	83086	A651	£103	78643	A876	TY24M	18321	A963
11.68K25	83086	A652	S103	78643	A877	TY2LM	18321	A964
1168K25	83086	A653	5103	78643	A878	TX5#N	18321	A965
1168K25	83086	A892	5103	78643	A879	TX5pm	18321	A966
1168K25	83086	A893	S103	78643	A880	TY24M	18321	A967
168K25	83086	A894	S103	78643	A881	TY24M	18321	A968
168K25	83086	A895	S103	78643	A882	TY24M	18321	A969
168K25	83086	A896	s632-2	46384	A757	TY2LM	18321	A970
168K25	83086	A897	TB410	71041	A904	TY24M	18321	A971
168K25	83086	A898	TB410	71041	A905	TY24M	18321	A972
168K25	83086	A899	TYPE24-3-16X3-4	73957	<b>A3</b> 4u	TY2LW	18321	A973
.68 <b>K2</b> 5	83086	A900	TY24M	18321	A936	TY24M	18321	A974
68K25	83086	A901	TX5#W	18321	A937	TY24M	18321	A975
68K25	83086	A902	TY2hM	18321	A938	түг↓м	18321	A976
68K25	83086	A903	TY24M	18321	A939	TY24M	18321	A977
883PK25	83086	A104	TX5#W	18321	A940	TY24M	18321	<b>897</b> 8

SECTION IV INDEX-FEDERAL STOCK NUMBER & REFERENCE NUMBER CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FEDERAL STOCK NUMBER	<b></b>	ITEM SEQUENCE NUMBER	FEDERAL STOCK HUMBER	<b>-</b>	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
	7 1	•	]	. ,	•		1 ;	
REF NO.	MFG CO.	ITEM SEQ. NO.	REP NO.	MPG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
TY24M	18321	A979	31-05-63-02	06175	A985	8-32X1-4SHSST	70276	A095
TY24M	18321	A980	31-05-63-02	06175	A986	8-32X1-5-8SHSST	70276	A257
T58354	00159	A931	31-05-64	06175	A983	833	83330	A084
T58354	00159	A932	31-05-64	06175	A984	8363K7	15605	A034
UT2-35	76005	AB70	31-05-68	06175	A988	8363K7	15605	A).10
UT2-35	76005	A871	31-05-68	06175	A989	8363K7	15605	A928
UT2-50	76005	A872	312008	75915	A038			
UT2-50	76005	AB73	320561	00779	A149			
VH6-2000-942	27780	A134	381	70485	A099			
VH6-2000-942	27780	A197	381	70485	A100			
10-32X3-8HHCDFL	70138	A325	3°1	70485	A264			
10BD6A	81348	A922	381	70485	A265	1		
1471	83330	A148	1-40X1SHSST	70138	A061			
15-250-0500	73975	A426	4-40X1SHSST	70138	A064			
16	70485	A237	4-40xishsst	70138	A309			
16	70485	A238	4-40X1SHSST	70138	A312			
174125	16428	A914	4-40X5-161 SST	70138	A727			
200036-6	02145	A029	440CS3-4X23-1-4	26002	A261			
200545-6	02145	A059	ььосs3-ьx23-1-ь	26002	A262			
200596–12	02145	A079	5-16-18%3-16SST	70138	A356			
200596-12	021,72	A082	5-170	71785	A933			
200596-12	02145	A273	5-170	71785	A934			
200596-12	02145	A276	5-170	71785	A935			
200612	02145	A517	508	83330	A153			
200612	02145	A535	515-875	75495	A850	i		
200612	02145	A553	53-70-25	06175	A982	ļ		
200612	02145	A571	53-70-26	06175	A993			
22NKTM82	72962	A830	53-70-26	06175	A994			
22NM02	72962	A119	53-70-27	06175	A992			
25NW05	72962	A143	53-70-32	06175	A987			
25NW05	962ר7	A182	537096-220	06175	A990			
2.5W05	72962	A227	537096-220	06175	A991	İ		
25	83086	A358	6-32X7-16SHSST	70276	A066			
25020-12	14438	A296	6-32X7-16SHSST	70276	V#00			
3AG3	71400	W35p	6-32X7-16SHSST	70276	A855			
3AG8	71400	<b>A9</b> 23	6-32X7-8SHSST	70276	A260			
3JX29	56289	A925	653	83330	A359			
3JX29	56289	<b>A9</b> 26	томмог	72962	V81'5			

SECTION V INDEX-FIGURE & ITEM NUMBER
CROSS REFERENCE TO ITEM SEQUENCE NUMBER

FIGURE NUMBER	ITEM NUMBER	TTEM SEQUENCE NUMBER	FIGURE NUMBER	IYEM NUMBER	. TEM SEQUENCE NUMBER	FIGURE NUMBER	ITEM NUMBER	ITEM SEQUENCE NUMBER
3-5	1	A093	3-5	42	A051	3-6	21.	A251
3-5	1	A094	3-5	43	A140	3-6	22	A226
3-5	10	Al 12	3-5	44	A138	3-6	23	A227
3-5	10	A113	3-5	45	A139	3-6	24	A181
3-5	11	A097	3-5	46	A117	3-6	25	A182
3-5	12	A095	3-5	47	A115	3-6	26	A244
3-5	13	W195	3-5	48	A116	3-6	26	A245
3-5	14	A165	3-5	49	A101	3-6	27	A207
3-5	15	W796	3-5	5	A111	3-6	28	A208
3-5	16	A167	3-5	5C	A114	3-6	29	A256
3-5	17	A049	3-5	51	<b>A</b> 102	3-6	3	A260
3-5	18	A055	3-5	52	A149	3-6	30	A255
3-5	19	A059	3-5	54	880A	3-6	31	A205
3-5	2	A092	3-5	55	<b>A</b> 160	3-6	32	A242
3-5	20	A058	3-5	56	A159	3-6	33	A203
3-5	21	A056	3-5	Er	W075	3-6	34	A243
3-5	25	<b>A0</b> 60	3-5	59	A158	3-6	35	A246
3-5	22	A063	3-5	59	A090	3-6	36	A172
3-5	23	A057	3-5	59	A091	3-6	36	A173
3-5	54	A061	3-5	60	A089	3-6	37	A174
3-5	24	A064	3-5	61	A041	3-6	37	A175
3-5	25	A069	3-5	7	A110	3-6	38	A281
3-5	26	A083	3-5	8	A099	3-6	38	A282
3-5	59	A1#↑	3-5	8	A1:00	3-6	38	A283
3-5	3	A151	3-5	9	8ęca	3-6	38	A28L
3-5	3	Ai52	3-6	1	A264	3-6	l.	A235
3-5	31	A104	3-6	1	A265	3-6	4	A236
3-5	31	<b>A</b> 105	3-6	11	A179	3-6	41	A267
3-5	32	W175	3-6	11	A180	3-6	42	A268
3-5	34	A143	3-6	13	A292	3-6	43	A224
3-5	35	A050	3-6	14	A286	3-6	եե	A223
3-5	36	A148	3-6	17	A253	3-6	45	A258
3-5	38 .	910€	3-6	18	A200	3-6	46	<b>A</b> 213
3-5	38	A107	3-6	19	A257	3-6	47	A214
3-5	39	A118	3-6	2	A300	3-6	5	A259
3-5	4	A161	3-6	5	A301	3-6	5	A285
3-5	40	A108	3-6	20	A225	3-6	50	A252
3-5	41	. 19	3-6	21	A250	3-6	51	A221

SECTION V INDEX-FIGURE & ITEM NUMBER
CROSS REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FIGURE NUMBER	ITEM NUMBER	ITEM SEQUENCE NUMBER	FIGURE NUMBER	ITEM NUMBER	ITEM Sequence Number	FIGURE NUMBER	ITEM NUMBER	ITEM SEQUENCE NUMBER
3-6	52	A206	3-7	25	A396	3-7	54	A329
3-6	54	A246	3-7	26	A364	3-7	55	A379
3-6	ج <b>ل</b>	A248	3-7	27	A386	3-7	55	A380
3-6	55	A201	3-7	28	A365	3-7	55	A381
3-6	57	A219	3-7	29	A307	3-7	55	A382
3-6	58	A176	3-7	3	£484	3-7	56	A 194
3-6	58	A177	3-7	31	A335	3-7	57	A360
3-6	59	A263	3-7	32	A406	3-7	59	A362
3-6	6	A170	3-7	33	A369	3-7	6	A395
3-6	6	A171	3-7	34	A370	3-7	60	A321
3-6	60	A287	3-7	35	A336	3-7	61	A347
3-6	62	A178	3-7	36	A366	3-7	62	A404
3-6	63	A222	3-7	37	A399	3-7	63	A333
3-6	65	A219	3-7	38	A397	3-7	64	A334
3-6	65	<i>1</i> ,220	3-7	38	A398	3-7	65	A351
3-6	66	A241	3-7	:9	A345	3-7	67	A332
3-6	67	A201	3-7	L	A346	3-7	68	A330
3-6	67	A202	3-7	40	A309	3-7	69	A379
3-6	68	A261	3-7	10	A312	3-7	7	A405
3-6	68	A262	3-7	<b>h</b> 1	A310	3-7	70	A389
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<b>4</b>	<u> </u>	<b>A</b> 603	÷	 	A642	: <del>-</del> 8	4	#609
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### SECTION V INDEX-FIGURE & ITEM NUMBER CROSS REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

FIGURE NUMBER	ITEM NUMBER	ITEM Sequence Number	FIGURE NUMBER	ITEM NUMBER	ITEM SEQUENCE NUMBER	FIGURE NUMBER	ITEM NUMBER	SEQUL/ACE NUMBER
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#### der of the Secretary of the Army:

W. C. WESTMORELAND, General, United States Army, Chief of Staff.

al:
IE L. BOWERS,
General, United States Army,
djutant General.

TOAD (10)

ntion: ive Army LEAD (7) USASA (2) **ATAD (5)** CNGB(1) GENDEP (2) ACSC-E(2) Sig Sec GENDEP (5) Dir of Trans (1) Sig Dep (6) CofEngrs (1) Units org under fol TOE: CofSptS(1) (1 cy ea unit) USACDC (2) 1-78 USACDC Agey (t) except USACDCINTA (5) 1-102 1-128USAMB (10) 6-401 USAMC (1) 6-575 CONARC (5) 11-96 ARADCOM (2) 11-127 ARADCOM Rgn (1) 11-158 OS Maj Comd (4) 11-226 LOGCOMD (5) 11-237 USAPA (5) 11-500 (AA-AC) USAESC (70) 17-15 USAUC (5) 17-51 MDW (1) 29-134 Armies (2) 29-136 Corps (2) 29-427 Div (2) SigFLDMS (1) 30-5 30-6 ATS (1) 30-7 USAERDAA (2) 30-14 USAERDAW (2) JSACCREL (2) 30-17 lyc Colleges (2) 30-18 30-25 JSAINTS (40) 30-26 JSAOC&S (10) 31-105 JSASCS (10) 31-107 JSASESS (5) JSAAESWBD (5) 51-1 52-1 JSACDCEC (10) 't Holabird (10) NG: None. 't Gordon (10) 't Huachuca (10) USAR: None. VSMR (5) 't Camon (10) For explanation of abbreviations used, see AR 310-50. ırmy Dep (1) except LBAD (10) SAAD (10)

# END 01-07-83

DATE



