## TECHNICAL MANUAL

# DS, OS, $_{\text {S }}$ AND DEPOT MANTENANCE marual (INCLUDING REPAIR PARTS AMID SPECIAL TOOL LISTS) <br> <br> VIEWER, STEREOSCOPIC <br> <br> VIEWER, STEREOSCOPIC ROLLFILM, PHOTOGRPPHIC ROLLFILM, PHOTOGRPPHIC interpretation Ar-133A 

 interpretation Ar-133A}

HEADQUARTERS, DEPARTMENT OF THE ARMY

## 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
$\left.\begin{array}{l}\text { Technical Mandal. } \\ \text { No. 11-6675-2si-35 }\end{array}\right\}$
HEADQUARTERS DEPARTMENT OF THE ARMY Washington, D. C., I3 May 1971

## DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists <br> 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 <br> (figs. 2-l and 2-2)

The light table assembly consists of the X- (a below), Y- ( $\boldsymbol{b}$ 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 $15-\mathrm{x} 183 / 8$-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 0.7 X 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.


EL 6675-287-35-TM-1

Figure 2-1. Details of rollfilm viewer.


EL6675-287-35-TM-2
Figure 2-2. Carriage travel axis and light table controls.


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 0.7 X and 3.0 X .
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 7 X to 30 X . Use of the 20 X eyepieces extends the range from 14X to 60X. The 0.5 X lens attachment is used in place of the clear lens shield to further extend the magnification range. The 0.5 X 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 A1g1 and A1G2.
c. At the beginning of each half-cycle, A191 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 T 2 and T 3 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 R 1 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 R 1 is set for maximum resistance, trigger diode A1CR5 is triggered late in the halfcycle 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 $90^{\circ}$ with respect to the line voltage. This action insures that control of the firing point begins near the end of each halfcycle 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. $\mathrm{HI} / \mathrm{LO}$ switch $\mathbf{S 1}$ is used to select the illumination range by connecting or removing variable resistor R 2 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 S 2 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 S3. When carriage switch S3 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 S 4 . 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. $\underset{\text { Required }}{\text { Toolst }}$ Test Equipment, and Materials
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 5120-2544612).
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 $\mathbf{1 0}$ 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 $\mathbf{1 0}$ 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 $\mathrm{HI} / \mathrm{LO}$ 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 $\boldsymbol{b}$ 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 <br> No. | Symptom | Probable trouble | Correction |
| :---: | :---: | :---: | :---: |
| 1 | Light source does not <br> light; fuse F1 not <br> blown; primary pow- <br> er source circuit <br> breaker tripped. | a. Defective power cord........... | a. Remove power cord from ac outlet and <br> check for short circuits; replace if de- <br> fective (fig. 6-2). |
|  | b. Defective radio frequency |  |  |
| interference filter. |  |  |  |$\quad$| b. Remove power cord from ac outlet and |
| :--- |
| check for short circuit between input |
| terminal and case, and output terminal |


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 S 3 is ON with red pushbutton depressed, switch S 2 is defective. Replace LAMP INTENSITY switch S2 if defective (para 3-15g).
b. Test dimmer assembly (para 3-6d); replace if defective (para $3-15 \mathrm{~g}$ ).
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).
d. Test grid assembly transformers T 2 and T3 (para 3-7); replace if defective (para $3-15 \mathrm{~g}$ ).
e. Replace light grid assemblies DS1 and

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.
a. Connect jumper across variable resistor R1. If light source illuminates, replace LAMP INTENSITY switch assembly (para $3-15 \mathrm{~g}$ ).
b. Test dimmer assembly (para 3-6d); replace if defective (para $3-15 \mathrm{~g}$ ).
c. Test grid assembly transformers T 2 or T 3 (para 3-7); replace if defective (pars 3-15g).
d. Replace light grid assembly DS1 or DS2 (para 3-15f).
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.
h. Test dimmer assembly (para 3-6d); replace if defective (para $3-15 \mathrm{~g}$ ).
c. Test grid assembly transformer T2 or T3 (para 3-7); replace if defective (para $3-15 \mathrm{~g}$ ).
d. Replace light grid assembly DS1 or DS2 (para 3-15f).
Clean mask assembly. Refer to TM 11-6675-287-12.
Replace drag brake spring (para 3-17b).


| Item | 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 $23,000 \mathrm{ohms}$. 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 INTENSITTY 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.

## N O T E

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. M easure 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 $\mathrm{ON} / \mathrm{OFF}$ switch S 3 to the ON position.
g. Connect voltmeter (de scale) across capacitor C3 and depresg the red carriage pushbutton swivh SA. If 6 volts de is measured, circuit test is complete. If 6 volts de is not measured. perform the followine:
(1) Connect jumper across carriage ON/ OFF switch S3; if 6 volts dc is measured, remove jumper and replace ON/OFF switch (para $3-15 \mathrm{~g}$ ),
(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 tube 8 remain 8 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 $\mathbf{3 5} \mathrm{mm}$ ( 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. W ith 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.
h. Check to see that the magnification of the Zoom 240 is continuously variable from 0.7 X to 60 X .
i. Assemble the Zoom 240 a8 a microscope (TM 11-6675-287-12).
j. Verify that the magnification is continuously variable from $\mathbf{3 . 5 X}$ to $\mathbf{3 0 X}$ with the 0.5 X 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 procedure 8 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 3-1 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.

| $\begin{gathered} \text { Item } \\ \text { No. } \\ \hline \end{gathered}$ | Symptom | Prohable trouble | Correction |
| :---: | :---: | :---: | :---: |
| 1 | Difference in magnification 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 magnification 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 completely 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 optical 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. | a. Eyepiece tube centering defective. <br> b. Objective lens off center . . . . . <br> c. Complete optical system out of alignment. | a. Replace power pod. <br> h. Replace power pod. <br> 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 simultaneously. | Triangular prism out of alignment. | 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 part 8 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 bc 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 Ztravel) 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 $\backslash$
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 $3-15 \mathrm{a}$ ) 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 Xtravel 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 Xtravel 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.


Catch (MP1 and MP2)
2 Scree 6 (MP3 through
3 Terminal block (MP7 and
4 Screw (MP9 through
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)
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 (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)
Screw (MP47 and MP48)
29 Knob (MP49)
Figure 3-5. Disassembly of $X$-travel carriage, exploded view.

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)
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 Xbearing 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 backup 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
3 Screw (MP94 and MP95)
4 Strike and catch (MP96 and MPS7)
5 Screw (MP98 through MP105)
6 X-carriage support guide (MP106 and MP107)
7 Screw (MP108 through
8 Bumper (MP112 and MP13)
9 Bumper standoff (MP114 and MP115)
10 Screw (MP116 and MP117)
11 Bumper plate (MP118)
12 Screw (MP119 through MiP122)
13 Drag brake assembly (MP123)
14 Drag brake plate (MP124
15 Screw (MP125 through
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-taryel clfutch assembly
25 Nut (MP141)
26 Ball bearing (MP142
and MP143)
27 Chain assembly (MP144)
28 Screw (MP145)
29 Screw (MP146)
30 Wasser 5 (MP147 through
31 Sprocket (MP154)
32 Hubadjusting clamp
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 Screyp (MP 163 through
40 Cable clamp (MP167)
41 Brush assembly (MP168)
42 ScrenMSMP169 and
43 Left carriage support plate (MP171)
44 Right carriage support plate (MP172)
5 Screw (MP173 through
46 Chain assembly (MP181)
47 Screw (MP182)
47 Screw (MP183)
49 Washer (MP180) through
50 Retaining ring (MP191)
51 Right-hand fine feed mechanism shaft (MP192)
52 Sprocket (MP193)
52 Sub adjusting clamp (MP194)

54 Ball bearing (MP195)
55 Sprocket (MP196)
56 Hub (MP19if)
57 Bail bearing (MP198 and
58 Stud mounting bar (MP200)
59 Screw (MP201 through
60 Stabilizer rod support
61 Screw (MP209) through
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)
67 Left and right front Yrail support blocks (MP217 and MP218)
68 Ball bushing shaft (MP219 and MP220)

Figure 3-6. Disassembly of Y-travel carriage, exploded view.
(10) Remove three screws (19) securing Yfine 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 Ytravel 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 righthand 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 Ytravel 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


1 Stop pin (MP223)
2 Nut (MP221)
3 Screw (MP222)
4 Screw (MP224 and 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)
12 Support assembly (MP234)
13 Screw (MP2:35)
14 Pin (MP236)
15 Sprocket (MP237)
16 Retaining ring (MP238)
17 Spindle (MP239)
18 Bearing magazine (MP240)
19 Screw (MP241)
20 Pin (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)
33 Miniclutch assembly (MP261)
34 Key (MP262)
35 Shaft (MP263)
36 Bearing (MP264)
37 Screws (MP265 through MP268)
38 Optics heel pads (MP269 and MP270)
39 Screw (MP271 through MP278)
40 Screw (MP279 through MP282)
41 Washers (MP282 through MP286)
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)
47 Ball bearing (MP299)
48 Worm gear housing cr ver (MP300)
49 Chain (MP301)
50 Screw (MP302 through MP305)
51 Knob (MP306 and MP307)
52 Knob sleeves (MP308 and MP309)
53 Screw (MP310 through MP313)
54 Bearing caps (MP314 and MP315)
55 Bearing (MP316 through MP319)
56 Pin (MP320)
57 Worm gear (MP321)
58 Shaft (MP322)
59 Lall bearing (MP323)
60 Worm gear housing (MP324)
61 Screws (MP325 through MP327)
62 Washers (MP328 and MP329)
63 Worm gear (MP330)
64 Sprocket (MP331)

65 Setscrew (MP332)
66 Shim (MP333) 67 Spacer (MP334) 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) 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 3-7(1). Disassembly of Z-travel carriage, exploded view (part 1 of 3).


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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)
3 Spring standoff (MP4:37 and MP438)
4 Mounting knob (MP4:39 and MP440)
5 Spring pin (MP441)
6 T-rail (MP442)
7 Screw (MP443 and MP444)
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)
15 Roller bracket-right (MP477 and MP478)
16 Roller bracket-left (MP479 and MP480)
17 Screw (MP481 through MP488)

18 Strike (MP489 through MP492)
19 Screw (MP493 through MP500)
20 T-rail bracket (MP501 and MP502)
21 Screw (MP503 through MP510)
22 Lower roller (MP511 through MP514)
23 Roller bracket (MP515 through MP518)
Screw (MP519 and MP520)
25 Stage shifting lever (MP521 and MP522)
26 Knob (MP523)
27 Screw (MP524 through MP527)
28 Washer (MP528 through MP531)
29 Shipping lock assemblyright (MP532)
30 Shipping lock assemblyleft (MP533)
31 Screw (MP534 through MP557)
32 Power box cover (MP558)

33 Screw (MP559 and MP560)
34 Bus bar (W 1)
35 Screw (MP561 through MP572)
36 Front retainer (MP573)
36 Front retainer (MPs73) MP583)
38 Front stage guide-right (MP584)
39 Washer (MP585 through MP587
40 Roller (MP588)
41 Rear stage guide-right (MP589)
42 Stage glass assemblyright (MP590)
43 Screws (MP591 through MP600)
44 Front stage guide-left (MP601)
45 Washer (MP602 through MP604)
46 Roller (MP605)
4 : Rear stage guide-left (MP606)
48 Stage glass assemblyleft (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)
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)
60 Retainer slide-right (MP637)
61 Left and right light table shades (MP638/MP639) 62 Sheave wire (MP640) MP643)
6.3 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)

Figure 3-8. Disassembly of light table.
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 rearward 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).

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

## 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 $3-15 \mathrm{c}$, $d$, 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 $3-20 \mathrm{~b}$, 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 Ytravel 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 couplings; 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 <br> 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 Ytravel 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 Ytravel 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 $\mathrm{e}(2)$ 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 Xtravel 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 Xtravel rail assembly (61) with retaining ring (33) and nut (34).
(12) Secure backup plate (26) and assembled brush and housing assembly (27) to the Xrail bearing channel (35) with two screws (28).
(13) Screw drag lock assembly (25) into Xrail 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 Xbearing 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 Xtravel carriage. Refer to e(l) below for joining instructions.
e. Joining of the $X$-, $\quad Y$-, 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 Xtravel 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 Xtravel 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 quickrelease 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. $91 / 2$-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 $91 / 2$-inch aerial rollfilm.
b. Test Connections and Conditions. None required.
c. Procedure.

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




## 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 $\mathbf{1 0}$ 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 |  |  | Test procedure | Performance standard |
| :---: | :---: | :---: | :---: | :---: |
| No. | Test equipment | Equipmentt under test |  |  |
| 1 | N/A | Set HI/LO switch to LO and turn LAMP INTENSITY control clockwise. Allow 15minute warmup time. |  | Light table lights. |
| 2 | N/A | N/A | Turn LAMP INTENSITY 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 | $\mathrm{N} / \mathrm{A}$ | Turn LAMP INTENSITY 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. |



Note. In steps 6 through 9 above. the minimum brightness at all test locations in the 10 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 intengity reading in the LO range shall overlap the minimum intensity reading in the HI range at each test location, in figure $4-\mathrm{I}$.

left stage glass


RIGHT STAGE GLASS EL6675-287-35-TM-17

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

4-6. Zoom 240 Physical and Optical Tests

## a. Test Equipment and Materials.

(1) USAF R esolution Chart 1951.
(2) Aerial photographic negative.
b. Test Connections and Equipment.
(1) Z oom 240 must be mounted in arm assembly on retractable arm.
(2) Z oom 240 must be set up as a microscope.
(3) Place carriage switch to 0 N .
c. Procedure.


| Step |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 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 motion will become evident. | Lost motion of power changer knob shall not exceed 3 line widths of engraved scale. |
| 6 | N/A | Controls may be in any position. | R otate eyepieces to provide maximum ocular separation. | M ovement 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 extreme clockwise and counterclockwise positions. | 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 photographic negative and replace it with resolution chart. | a. None. |
|  |  |  | b. Install 0.5 X lens attachment. | b. None |
|  |  |  | c. Replace 10 X eyepieces 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 entire 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 $20 X$ eye pieces. | Z oom 240 must resolve a minimum of 200 lines per millimeter. |
| 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. N one. |
|  |  |  | b. Position resolution chart at center of the left viewing area. | b. N one. |
|  |  |  | c. Viewing chart through right eyepiece only, obtain best focus using mount height adjustment with right stereoscope rhomboid fine adjustment lever approximately in center of its extreme limits of travel. | c. Zoom 240 must resolve a minimum of 200 lines per millimeter. |
| 12 | N/A | N/A | a. Position resolution chart at one of four comer areas of left viewing area. | a. $N$ one. |


| $\begin{aligned} & \text { Step } \\ & \text { No. } \end{aligned}$ | Control apting |  | Test Procedure | Preformance standard |
| :---: | :---: | :---: | :---: | :---: |
|  | Test equipment | Equipment under test |  |  |
|  |  |  | 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.

Repeat steps 11 and 12 above for remaining three comers of left viewing area and at center and four corners of right viewing area.
a. Position Zoom 240 at center of left viewing area with rhomboid arms at maximum separation with Zoom 240 rotated clockwise at an approximate angle of 45 degrees with respect to .X-travel direction.
b. View resolution chart through right eyepiece and obtain best focus using zoom mount height adjustment in center of its extreme limits of travel.
c. Move resolution chart so that it may be viewed through left eye piece without moving Zoom 240.
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 approximately 90 degrees counterclockwise without translation of carriage.

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.
a. None.
b. Zoom 240 shall resolve a minimum of 200 lines per millimeter.
c. None.
d. Left eyepiece shall resolve a minimum of 200 lines per millimeter.
e. $N$ one.

| $\begin{aligned} & \text { Step } \\ & \text { No. } \end{aligned}$ | Control setting |  | Test Procedure | Performance standard |
| :---: | :---: | :---: | :---: | :---: |
|  | Test equipment | Equipment under test |  |  |
|  |  |  | f. View resolution chart through right eyepiece. | f. Zoom 240 shall resolve a minimum of 200 lines per millimeter with a maximum rotation of 25 degrees of right rhomboid fine focusing lever with respect to its initial setting. |
|  |  |  | g. Repeat e and fabove for left eyepiece. | g. Same as $f$ above. |
| 15 | N/A | Set common power changer knob to 3.0. | Repeat step 14a through $g$ above at center of right viewing area using same resolution and adjustment criteria. | Performance standards are same as indicated in 14a through g above. |

## 4-7. Test Data Summary

1. LIGHT SIOURCE TEST

Light output at surface of left and right stage glass with controls set for maximum brightness $\qquad$

20-to-1 dimming ratio from a maximum level of $2,200 \mathrm{fl}$ minimum.

## 2. ZOOM 240 TESTS

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. Zoom from 0.7 to 3.0 .............................................................. One image jump.
c. Reverse zoom direction at common power changer knob positions 1.0 and 2.0 $\qquad$ One image jump at each position
d. Eyepiece separation Variable from 60 to 72 millimeters.
e. Resolution with 0.5 X 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 <br> 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 Mainte- | TM | 11-6675-287-12 |  |
| nance $\quad$ Manual for |  |  |  |
| Viewer, $\quad$ Stereoscopic |  |  |  |
| Rollfilm, | Photographic |  |  |
| Interpretation AR-133A |  |  |  |

## 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 to be used in conjunction with the maintenance procedures given in chapters 1 through 4.

## Figure

No.
TM control No.
Title
6-1 ESC-FM-4113-69 Color code marking for MIL-STD re-

| Figure <br> No. | TM control No. |
| :---: | :---: |



| gano A |  | bano ${ }^{\text {b }}$ |  | band C |  | bano o |  | band E |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| caon |  | caor |  | colon | Len | color |  | Color |  | тепм. |
|  | 0 1 2 3 3 3 $\vdots$ $\vdots$ $\vdots$ |  | 0 1 2 3 3 $\vdots$ $\vdots$ $\vdots$ $\vdots$ |  | $\begin{array}{r} 100 \\ 10.000 \\ 10,000 \\ 1000000 \\ 1000,000 \\ 10.01 \\ 0.1 \end{array}$ | $\left\|\begin{array}{l} \text { sILver } \\ \left.\begin{array}{c} \text { eLe } \\ \text { RED..... } \end{array} \right\rvert\, \end{array}\right\|$ |  |  | $\begin{array}{\|l} \hline m \\ p \\ p \\ s \end{array}$ | ${ }_{\text {ERALE }}^{\text {Sodic }}$ |


band b - The secono significant figure of the resistance value,






$287-27$ oHMS $\quad 1000-10.0$ OHMS

composition-TYPE RESIITTORs



A. color code marking for mlitary standard resistors.

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

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


MICA-DIELECTRIC





table 3- For use with styles cm, cn, cy and cb.

| color | ${ }^{410}$ | $\begin{aligned} & \substack{\text { sigit } \\ \hline \text { fio }} \end{aligned}$ | $\begin{array}{\|c} \substack{20 \\ \text { sia } \\ \hline 100} \end{array}$ | LIER | capacitance tolernuce |  |  |  |  |  |  |  |  | (10entow |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Black | Cacter | - | 0 | 1 |  |  | 120\% | 120\% |  | ${ }^{1}$ |  |  | $-8{ }^{+0}+{ }^{+0}$ | 0-580 |
| anown |  | 1 | 1 | 10 |  |  |  |  | ${ }^{-}$ | E | - |  |  |  |
| neD |  | 2 | 2 | 100 | 士2\% |  | $\pm 2 \%$ | $\pm 2 \times$ | ${ }^{\circ}$ |  |  |  | -55\% ${ }^{\text {P0 }}$ |  |
| Ofange |  | 3 | 3 | 1,000 |  | $\pm$ ºx |  |  | - |  | - | 300 |  |  |
| reLow |  | 4 | 4 | 10,000 |  |  |  |  | E |  |  |  |  | 10.200004 |
| Onten |  | . | - |  | tow |  |  |  | r |  |  | 500 |  |  |
| BLUE |  | 6 | 6 |  |  |  |  |  |  |  |  |  | $-35^{\circ}+0^{+100 \%}$ |  |
|  |  | 7 | 7 |  |  |  |  |  |  |  |  |  |  |  |
| grey |  | 8 | 8 |  |  |  |  |  |  |  |  |  |  |  |
| white |  | , | , |  |  |  |  |  |  |  |  |  |  |  |
| 60L |  |  |  | 0.1 |  |  | 15\% | tow |  |  |  |  |  |  |
| sLVER | ${ }^{\text {cN }}$ |  |  |  | $\pm 10 \%$ | tiox | t10\% | tios |  |  |  |  |  |  |


axial LEAD



[^0]

Figure 6-2. Rollfilm viewer, schematic diagram.


## APPENDIX A

REFERENCES

The following applicable references are available the direct support, general support, and depot maintenance personnel of Viewer, Stereoscopic Rolffilm, Photographic Interpretation AR-133A.

DA Pam 310-4
DA Pam 310-7
TB SIG 355-1
TB SIG 355-2
TB SIG 355-3
ТВ 746-10
TM 11-5895-431-12
TM 11-5895-431-35
TM 11-6625-219-12
TM 11-6675-287-12

Index of Current Mechanical Manuals, Technical Bulletins, Supply Manuals, (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders. Index of Current M odification W ork O rders.
Depot Inspection Standard for Repaired Signal Equipment.
Depot Inspection Standard for Refinishing Repaired Signal Equipment.
Depot Inspection Standard for M oisture and Fungus Resistant Treatment.
Field Instructions for Painting and Preserving Electronics Command Equipment.
Organizational Maintenance Manual: Tactical Imagery Interpretation Facility AN/TSQ-43 and AN/TSQ-43A.
DS, GS, and Depot Maintenance M anual: Tactical Imagery Interpretation Facility AN/TSQ-43 and AN/TSQ-43A.
Organizational Maintenance M anual: O scilloscope AN/USM-81.
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 Equip-ment-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, crossreferenced 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.
P2- 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.
P9- 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 | $\ldots \ldots \ldots \ldots .$. | Organizational maintenance |
| F | $\ldots \ldots \ldots \ldots \ldots \ldots$ | Direct support maintenance |
| H | $\ldots \ldots \ldots \ldots \ldots \ldots$ | General support maintenance |
| D | $\ldots \ldots \ldots \ldots \ldots$ | Depot maintenance |

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

## Code

## Explanation

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<br>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 AR133 A 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.
(3) Third, locate the item sequence number in the repair parts list (sec. II).
b. When Federal stock number or reference number is known-
(1) Using the Federal stock number and reference number index (sec. IV) find the pertinent number and note the item sequence number.
(2) Locate the item sequence number in the repair parts list (sec. II).

## B-6. Federal Supply Codes for Manufacturers <br> Code Manufacturer

00159 ......... Acme Electric Corp., 40 Water St., Cuba, N.Y. 14727
00779 ..........
AMP Inc., P.O. Box 3608, Harrisburg, Pa. 17105
02145 ......... The Richards Corporation, 1545 Spring Hill Rd., P.O. Drawer 340, McLean, Virginia 22101
03296 .......... Nylon Molding Corp., 40 Brown St., Springfield, N.J. 07081
06175 .......... Bausch \& Lomb, Inc., 635 South Paul St., Rochester, N.Y. 14602
07886 ........... National Radio Co., Inc., Commercial Products Div., 37 Washington St., Melrose, Mass. 02176
08863 ......... Nylomatic Corp., Nolan Ave., Norrisville, Pa. 19067
14438 ........... The Mylok Co., Division of USM Corp., 3730 W. Morse, Lincolnwood, Ill. 60645
15605 .......... Cutler-Hammer, Inc., Milwaukee, Wis.
16428 .......... Belden Corp. P.O. Box 341, Richmond, Ind. 47374
18321 .......... T \& B Precision Products Co., Inc., St. Petersburg, Fla.
24011 ......... Electronized Chemical Corp., S. Bedford St., P.O. Box 57, Burlington, Mass. 01803
26002.......... Thompson Industries Limited, 1900 W. 144th St., Gardena, Calif. 90249
27545 .......... Hartford Universal Co., 1022 Elm St., Rocky Hill, Conn. 06067
44560 ......... Ohio Gear Div. of Townmotor Corp., 1333 E. 179th, Cleveland, Ohio 44110

Code
56289
70138

70276
70485
76901

71041

71400

71785 $\qquad$

72625

72962

73445

73957

73975

75495
75915 $\qquad$
76005

77122 $\qquad$
78643

81348

81349

## Manufacturer

Sprague Electric Co., Marshall St., North Adams, Mass. 01247
Aero \& Corry, Div. of Aero \& Flow Dynamics, Inc., 611 W. Main St., Corry, Pa. 16407
Allen Mfg. Co., Box 570, Hartford, Conn. 06101
Atlantic India Rubber Works, Inc., Chicago, Ill. 60607
Beemer Engineering Co., Industrial Park, Fort Washington, Pa , 19034
Boston Gear Works, Div. of N. American Rockwall Corp., 14 Hayward St., Quincy, Mass, 02171
Bussmann Mfg. Division of McGraw \& Edison Co., 2536 W. University St., St. Louis, Mo. 63017
Cinch Mfg. Co., Howard B. Jones Div., 1026 S. Homan Ave., Chicago, Ill. 60624
Amsted Industries, Inc., Diamond Chain Co. Div., 402 Kentucky Ave., Indianapolis, Ind. 46207
Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N.J. 07083

Amperex Electronic Corp., 230 Duffy Ave., Hicksville, Long Island, N.Y. 11801
Groov-Pin Corp., 1125 Hendricks Causeway, Ridgefield, N.J. 07657
Hamanacher Schlemmer \& Co., Inc., 145 E. 57th, New York, N.Y. 10022

Laminated Shim Co., 48 Union St., Glenbrook, Conn. 06906
Littlefuse, Inc., 800 E. Northwest Hwy., Des Plaines, Ill. 60016
Lord Mfg. Co., Lord Corp., 1635 W. 12th, Erie, Pa. 16512

Palnut Co., Mountainside, N.J. 07092
J. J. Tourek, 1901 S. Kilbourn Ave., Chicago, Ill. 60623
Federal Specifications, Promulgated by General Services Administration
Military Specifications, Promulgated by Standardization Div.

| Code | Manufacturer | Code | Manufacturer |
| :---: | :---: | :---: | :---: |
|  | Directorate of Logistic Services, | 94197 | Curtiss-Wright Corp., Electronics |
| 81640 | DSA <br> Controls Co. of America, Control |  | Div., 315 Market St., East Paterson, N.J. 07407 |
|  | Switch Div., 1420 Delmar Drive, Folcroft, Pa. 19032 | 94882 | Jergens Tool Specialty Co., 19520 Nottingham Rd., Cleveland, |
| 83086 | New Hampshire Ball Bearing, Inc., Peterborough, N.H. 03458 | 96881 | Ohio 44110 <br> Thomson Industries, Inc, 1029 |
| 83330 | Herman H. Smith, Inc., 812 Snediker Ave., Brooklyn, N.Y. 11207 |  | Plaudome Rd., Manhasset, N.Y. 11030 |
| 84256 | Audel, Inc., 212 S. Victory Blvd., Burbank, Calif. 91503 | 96906 | Military Standards Promulgated by Standardization, Div. Direc- |
| 84830 | Lee Spring Co., Inc., 30 Main St., Brooklyn, N.Y. 11201 | 98003 | torate of Logistic Services, DSA Nielsen Hardware Corp., 770 |
| 88044 | Aeronautical Standards Group, Dept. of Navy \& Air Force |  | Weathersfield Ave., Hartford, Conn. |
| 92830 | Wallace Barnes, Div. of Associated Spring Corp., 18 Main St., Bristol, Conn. 06012 | 99041 | The Miniclutch Co., 375 Morse <br> St., Hamden, Conn. 06514 |

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

| $\begin{gathered} \text { (1) } \\ \text { SMR } \\ \text { CODE } \end{gathered}$ | (2) FEDERAL STOCK NUMBER | OESCRIPTIONREFERENCE NUMBER \& MFR. CODE | $\begin{aligned} & \text { USABLE ON } \\ & \text { CODE } \end{aligned}$ | $\begin{aligned} & (4) \\ & \text { UNIT } \\ & \text { OF } \\ & \text { MEAS } \end{aligned}$ | (5)QTYINC INUNIT | (6) <br> 30-DAY OS MAINT ALLONANCE |  |  | (7) <br> 30-DAY GS MAINT ALLOUANCE |  |  | $\begin{gathered} \text { (8) } \\ 11 \mathrm{YR} \\ \text { ALHPER } \\ 1100 \\ \text { EQUIP } \\ \text { CHTGCY } \end{gathered}$ | (9)CEPOTMAINTALNPER100EQUIP | $\begin{gathered} (10) \\ \text { ILLUSIRAIIONS } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | (a) $1-20$ | (b) | $\begin{array}{\|c\|} \hline(\mathrm{c}) \\ 51-100 \\ \hline \end{array}$ | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | (b) | $\begin{gathered} \text { (c) } \\ 5+100 \end{gathered}$ |  |  | FIG H0. | $\begin{aligned} & \text { ITEM NO OR } \\ & \text { REFEREFICE } \\ & \text { DESIGMATION } \end{aligned}$ |
| $\|\mathrm{C}-\mathrm{DOO} \mathrm{~S}\|$ | 6675-235-4506 | VIEWER, STEREOSCOPE, AR133A: SME689309; (94197) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{C}-\mathrm{O}-\mathrm{s} \\ & \mathrm{AOO2} \end{aligned}\right.$ |  | - LIGHT TABLE ASSEMBLY, MIM5A: D18505; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \times 2-F \\ & \text { AOOS } \end{aligned}$ |  | $\begin{array}{\|l} \text {. RETAINER, SLIDE: } \\ \text { D16919-1; } \\ (02145) \end{array}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 59 |
| $\left\lvert\, \begin{aligned} & x 2-5 \\ & A 004 \end{aligned}\right.$ |  | $\begin{aligned} & \text {..RETAINER, SLIDE: } \\ & \text { E16919-2; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 60 |
| $\left\|\begin{array}{c} A--F-S \\ A 005 \end{array}\right\|$ |  | .. plate subassembly: <br> D17573-2; (02..45) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| AO2-F |  | ....magazine, ctain: <br> 027340-1; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {AOOT }} ^{2-F}$ |  | ...magazine, chain: <br> D17340-2; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \times 2-F \\ & A C D O \end{aligned}\right.$ |  | ... PLATE, Chain guide: <br> C17321; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & Y .2-F \\ & A 009 \end{aligned}\right.$ |  | $\begin{aligned} & \text {...GUILE, CENTER: } \\ & \text { B1?379; (02145) } \end{aligned}$ |  | EA. | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\{\begin{array}{l} \mathrm{X} 2-\mathrm{F} \\ \mathrm{AOD} 0 \end{array}\right.$ |  | $\begin{aligned} & \text { …GUIDE, CHALN, UPPER: } \\ & \text { B17368; (02145) } \end{aligned}$ |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{A O 11} ^{x 2-F}$ |  | ...GUILE, CHAIN, UPPER: SAME AS A010 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { X2-F } \\ & \text { A012 } \end{aligned}\right.$ |  | ...GUIDE, CHAIN, LOWER: B17367; (02145) |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \times 2-F \\ & A 013 \end{aligned}$ |  | ...GUIDE, CHAIN, LOWER: SAME AS AOL2 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| P-Fis | 3120-324-6424 | ... Bearing, Flanged: <br> FB46-2; (71041) |  | EA | 3 | 1 | 3 | 5 | 1 | 1 | 1 | 46 | 27 |  |  |
| P--F | 3120-324-6424 | $\begin{aligned} & \ldots \text { BEARING, FLANGED: } \\ & \text { SAME AS AOI } 4 \end{aligned}$ |  | EA | REF | REF | REF | REF | REF | REF | REF | REF' | REF |  |  |
| P--F | 3120-324-6424 | ... bearing, flanced: SAME AS AOI4 |  | EA | REF | REF | REF | REF | REF | REF | REF | REF | REF |  |  |
| P--F | 5315-844-5644 | $\begin{aligned} & \text { …PIN, SPEIMG: } \\ & \text { MS16562-194; }(96906) \end{aligned}$ |  | EA | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 33 | 18 |  |  |
| P--F | 5305-208-4861 | ...SCREW, MACEINE. MS35223-27; (96906) |  | EA | 27 | 2 | 4 | 7 | 1 | 1 | 2 | 83 | 56 |  |  |
| P-FF | 5305-959-1082 | $\begin{aligned} & \text {...SCREW, CAP, SOCKET HEAD: } \\ & \text { MS16995-18; }(96906) \end{aligned}$ |  | EA | 6 | 2 | 3 | 6 | 1 | 1 | 2 | 83 | 56 |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 02 \mathrm{O} \end{aligned}\right.$ | 5305-990-6381 | $\begin{aligned} & \ldots \text { SCREW, CAP, SOCKET, HEAD: } \\ & \text { MS16995-19; }(96906) \end{aligned}$ |  | EA | 2 | 2 | 4 | 8 | 1 | 1 | 2 | 164 | 125 |  |  |
| $\left\lvert\, \begin{aligned} & x 2-F \\ & A 021 \end{aligned}\right.$ |  | $\begin{aligned} & \text {...GUIDE, CHAIN: } \\ & \text { A17426; (02145) } \end{aligned}$ |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { X2-F } \\ & \text { A022 } \end{aligned}\right.$ |  | ...gutde, chatn: <br> SAME AS AOC1 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| X2-F |  | $\begin{aligned} & \text {....GUIDE, RETRACT ROLLER: } \\ & \text { B17587; }\left(02^{2} 45\right) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{X} 2-\mathrm{F} \\ & \mathrm{AO} 24 \end{aligned}$ |  | $\begin{aligned} & \ldots \text { PLATE, FRONT: } \\ & \text { C18349; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { X2-F } \\ & \text { AO25 } \end{aligned}\right.$ |  | $\begin{aligned} & \text {..PLATE, END: } \\ & \text { D18277-1; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |

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

| $\begin{aligned} & \text { (1) } \\ & \text { SMR } \\ & \text { CODE } \end{aligned}$ | (2) <br> FEDERAL STOCK NUMBER | (3) $\begin{gathered}\text { (3) } \\ \text { dESCRIPTION }\end{gathered}$ | $\begin{aligned} & \text { USABLE ON } \\ & \text { CODE } \end{aligned}$ | (4)UNITOFMEAS | (5)QTYINC INUNIT | (6) <br> 30-DAY DS MAINT ALLOUANCE |  |  | (7) <br> 30-DAY GS MAINT ALLOWANCE |  |  | (8)YRALHER PER100EQUIPCNIGCY | (9)© EPDTMANTALHPER100EQUIP | ILLUSTRATIOMS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | REFERENCE NUMBER \& MFR. CODE |  |  |  | $\begin{aligned} & \text { (a) } \\ & 1-20 \end{aligned}$ | $\begin{gathered} \text { (b) } \\ 21-50 \end{gathered}$ | $1 \begin{gathered} (c) \\ 51-100 \end{gathered}$ | $\begin{gathered} \text { (a) } \\ 1<20 \\ \hline \end{gathered}$ | $\begin{gathered} \text { (b) } \\ 21_{-50} \end{gathered}$ | $\begin{gathered} \text { (c) } \\ 51-100 \\ \hline \end{gathered}$ |  |  | F1G NO. | ITEM NO. OR REFERENCE DESIGKATICN |
| $\left\lvert\, \begin{aligned} & \mathrm{x} 2-\mathrm{F} \\ & \mathrm{AO} 2 \end{aligned}\right.$ |  | $\begin{aligned} & \text {.. PLATE, END: } \\ & \text { D18277-2; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{M}-\mathrm{D} \\ & \mathrm{~A} 027 \end{aligned}$ |  | $\begin{gathered} \text {...COVEP, POWER BOX: } \\ \text { D18372; }(02145) \end{gathered}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 32 |
| $\left\lvert\, \begin{aligned} & A-0-S \\ & A 028 \end{aligned}\right.$ |  | ..MOUNTING STRIP: D18503; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \times 2-F \\ & A 029 \end{aligned}\right.$ |  | '..SCREW, MACHINE: 200036-6; (02145) |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| M--D |  | ...STRIP, MOUNTING: |  | Ea | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|^{\mathrm{MO}-\mathrm{D}} \mathrm{D}$ |  | $\begin{aligned} & \text { …LABEL: } \\ & \text { B18495; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P--F | 5905-542-9440 | ...RESISTOR, VARIABLE: RV4NBYSD503A; (B13L9) |  | EA | 1 | - | 1 | 2 | * | 1 | 1 | 16 | 8 |  |  |
| $\begin{aligned} & \mathrm{P}--0 \\ & \mathrm{~A} 033 \end{aligned}$ | 5355-556-0151 |  |  | EA | 1 | * | 1 | 2 | * | 1 | 1 | 19 | 10 |  |  |
| $\begin{aligned} & \text { P--F } \\ & A 034 \end{aligned}$ | 5930-296-9034 | $\begin{aligned} & \text { …SWITCH, TOGGLE: } \\ & 8363 K 7 ;(15605) \end{aligned}$ |  | EA | 1 | 1 | 3 | 5 | 1 | 1 | 1 | 46 | 30 |  |  |
| $\begin{aligned} & P-F \\ & \mathrm{AO}-\mathrm{F} \end{aligned}$ | 5920-892-9311 | ...FUSEHOLDER: FHN26GI; (71400) |  | EA | 2 | $<$ | こ | 6 | 1 | 1 | 2 | 59 | 40 |  |  |
| P--F | 5920-892-9311 | ...FUSEHOLDER: SAME AS AO35 |  | EA | REF | REF | REF | REF | REF | REF | REF | REF | REF |  |  |
| $\left\lvert\, \begin{aligned} & P-0 \\ & \text { A037 } \end{aligned}\right.$ | 5920-050-4953 | ...fuce, cartrtdge: <br> FO2A250V1 1-2A; (81349) |  | EA | 1 | 2 | 6 | 11 | 1 | 2 | 3 | 130 | 100 |  |  |
| P--0 | 5920-280-4998 | $\begin{aligned} & \cdots \text { FUSE, CARTRIDGE: } \\ & 312008 ;(75915) \end{aligned}$ |  | E.a | 1 | 2 | 6 | 11 | 1 | 2 | 3 | 130 | 100 |  |  |
| $\left\|\begin{array}{l} A-F-n \\ A 039 \end{array}\right\|$ |  | $\begin{aligned} & \text {..CARRIAGE ASSEMBLY: } \\ & \text { D18523; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { P2-F-S } \\ & \text { A040 } \end{aligned}$ |  | ....CARRIAGE ASSEMBLY, X TRAVEL: <br> D18521; (02145) |  | EA | 1 | * | * | 1 | * | $\cdots$ | 1 | 8 | 3 |  |  |
| $\begin{aligned} & \mathrm{X} 2-\mathrm{F} \\ & \mathrm{~A} 041 \end{aligned}$ |  | .... RAIL ASSEMBLY, X travel: B16991-3; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 61 |
| P--F | 5305-958-6517 | .... SCREN, CAP, SOCKET HEAD: $\text { MSI6996-12; }(96906)$ |  | EA | 8 | 2 | 5 | 10 | 1 | 1 | 3 | 107 | 80 | 3-5 | 58 |
| $\left\{\begin{array}{l} \mathrm{X} 2-F \\ A 043 \end{array}\right.$ |  | …..PIN, SPIRAL: MS51923-197; (96906) |  | EA | 4 |  |  |  |  |  |  |  |  |  |  |
| $\left\{\begin{array}{l} \mathrm{X} 2-\mathrm{F} \\ \mathrm{~A} 044 \end{array}\right.$ |  | ```.....ROD: A18608-2; (02145)``` |  | EA | 4 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { X2-F } \\ & \text { A045 } \end{aligned}$ |  | ......ROD: <br> SAME AS AOL4 |  | E:A | HEF |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & x_{2}-F \\ & \text { AO46 } \end{aligned}$ |  | .....ROD: <br> SAME AS AOH4 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{X} 2-\mathrm{F} \\ & \mathrm{AO} 47 \end{aligned}$ |  | $\begin{aligned} & \text { ….ROD: } \\ & \text { SAME AS AO4 } \end{aligned}$ |  | $E A$ | REF |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{X} 2-F \\ & \mathrm{AOH} \end{aligned}\right.$ |  | $\begin{aligned} & \text { …RAIL: } \\ & \quad \text { B18370; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|} \text { X1-F } \\ \text { AO } \end{array}$ |  | $\begin{aligned} & \text {...BEARING HOUSING ASSEMBLY: } \\ & \text { C18517; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 17 |
| $\begin{aligned} & \mathrm{X}_{1}-\mathrm{F} \\ & \mathrm{AO} 0 \end{aligned}$ |  | $\begin{aligned} & \text {.... CHANNEL: } \\ & \text { B18368; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 35 |

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

| $(1)$ <br> SMR <br> $\operatorname{cose}$ | (2) FEDERAL STOCK NUMBER | gefference numer \& mfr. CODE | $\begin{gathered} \text { USABLE ON } \\ \text { COOE } \end{gathered}$ | $\begin{aligned} & (4) \\ & \text { UN1TT } \\ & \text { OF } \\ & \text { MEAS } \end{aligned}$ |  | $\begin{gathered} \text { (6) } \\ \text { 30-DAY DS MAINT } \\ \text { ALLOMAMCE } \end{gathered}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} (a) \\ 1-20 \\ \hline \end{gathered}$ | $\begin{gathered} (\mathrm{b}) \\ 21-50 \\ \hline \end{gathered}$ | (c) | ${ }_{1}^{\text {(a) }}$ | (b) | (c) |  |  |  |  |
| P-F |  | .....chain assembiy: <br> B16894-1; (02145) |  | EA | 1 | - | * | 1 | - | - | 1 | 8 | 3 | 3-5 | 42 |
| $\begin{aligned} & \mathrm{x}-\mathrm{F} \\ & \mathrm{~A} 052 \end{aligned}$ |  | …... LINKK: $_{\text {Al6762; (02145) }}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
|  |  | …...chaIs: $\quad$ B16994-3; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P-F | 5315-847-3735 | $\begin{aligned} & \text { …..PIR, SPRING: } \\ & \text { MS16562-190; } \\ & \text { (96906) } \end{aligned}$ |  | EA | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 33 | 16 |  |  |
| $\mathrm{P}_{\mathrm{a}-\mathrm{D}}^{\mathrm{D}}$ |  | ..... SPACER, SLEEVE: ${ }_{\text {116916-2; }}(02145)$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 28 |
| P-7 | 5305-988-7605 |  |  | ea | 1 | 2 | 3 | 6 | 1 | 1 | 2 | 71 | 50 | 3-5 | 21 |
| $\begin{aligned} & \mathrm{x} 2-\mathrm{F} \\ & \mathrm{AO57} \end{aligned}$ | 6740-249-8801 | $\underset{\text { B12142; }}{\ldots} \underset{(02145)}{\text { PILATE, BEARISG BACX UP: }}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 23 |
| $\left\lvert\, \begin{aligned} & \mathrm{P} \sim \mathrm{P} \\ & \mathrm{AOSO} \end{aligned}\right.$ | 5305-959-1082 | $\ldots$....screw, CAP, SOCKET HEAD: |  | ea | 4 | REF | REF | REF | REF | REF | REF | REF | REF | 3-5 | 20 |
| X2-F |  |  |  | EA | 2 |  |  |  |  |  |  |  |  | 3-5 | 19 |
| P-F | 6740-415-2567 |  |  | EA | 1 | 1 | . 3 | 5 | 1 | 1 | 1 | 53 | 32 | 3-5 | 22 |
| $\begin{array}{\|l\|l\|} \mid x 2-F \\ A 061 \end{array}$ |  | $\underset{\substack{\ldots . \text { SCREN, CAP, SOCKET } \\ 4-40 \times 1 S B S S T ; ~ \\(70138)}}{\text { HEAD: }}$ |  | ea | 2 |  |  |  |  |  |  |  |  | 3-5 | 24 |
| - | 5310-595-6211 | ...... MASHER, FLAF: ${ }_{\text {MS15795-803; }}(96906$ ) |  | ea | 2 | 2 | 4 | 7 | 1 | 1 | 2 | 77 | 54 |  |  |
| $\mathrm{P}-\mathrm{F}$ |  | …. litear ball mearimg assimbly SAME AS A060 |  | ea | 1 | REF | REF | REF | REF | feF | HEF | REF | REF | 3-5 | 22 |
| $\mathrm{x}_{\mathrm{A} 2 \mathrm{~F}}$ |  | …. SCREN, CAP, SOCKET READ: SAME A3 A061 |  | ea | 2 |  |  |  |  |  |  |  |  | 3-5 | 24 |
| P--P | 5310-595-6211 | $\begin{gathered} \text { …...UASHRR, FLAT: } \\ \text { SAME AS A062 } \end{gathered}$ |  | EA | 2 | REF | : 8 | REF | Rep | REP | REP | REF | REF |  |  |
| x2-F |  | $\cdots \underset{6-32 \times 7-16 S H S S T ;}{ } \quad$ (70276) |  | EA | 4 |  |  |  |  |  |  |  |  |  |  |
| P-7\% | 5360-422-1729 |  |  | EA | 2 | * | 1 | 2 | * | 1 | 1 | 19 | 10 |  |  |
| P-F ${ }^{\text {A068 }}$ | 5360-422-1729 | $\begin{gathered} \text { …. SPRIFG, HELICAL: } \\ \text { SAME AS AOGT } \end{gathered}$ |  | EA | REF | REF | REF | REF | REF | REF | REF | REP | REF |  |  |
| P-7 | 6740-246-8013 | ..... drag brake assembly: <br> 812139; (02145) |  | EA | 1 | - | 1 | $: 1$ | * | 1 | 1 | 13 | 6 | 3-5 | 25 |
| P-F | 6740-249-8800 |  |  | EA | 1 | - | - | 1 | - | - | 1 | 10 | 4 |  |  |
| xi-F |  | …...RETAINER, SPRTRG: <br> B12137: (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
|  |  | ........ housting: <br> B12138; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{x} 2-\mathrm{F} \\ & \mathrm{~A} 73 \end{aligned}$ | 5340-825-5906 | …...ITSERT, SCREW, THREAD: |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| x2-F |  | .......thimbscren: <br> PT25; (94882) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {x2-F }}$ | 5340-954-1141 | .......SPRIRG, HEEICAL, COKPRESSION: LCO55F3; (84830) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |


| $\begin{gathered} (1) \\ \text { SMR } \\ \operatorname{conE} \end{gathered}$ | (2) <br> FEDERAL <br> STOCK <br> NUMBER | (3) <br> DESCRIPTION <br> REFERENCE MUNBER \& MFR. CODE | $\begin{aligned} & \text { USABLE OA } \\ & \text { COOE } \end{aligned}$ | $\begin{gathered} \text { (4) } \\ \text { UMIT } \\ \text { OF } \\ \text { HEAS } \end{gathered}$ | (5)QTYINC IMUNIT | (6) <br> 30-DAY DS HAINT ALLOAAMCE |  |  | (7) <br> 30-DAY GS maint ALLOMAMCE |  |  | (8)1 YRALHPER100EqUIPCMISCy | (9)(EPOTMAIATMUPE100EQUIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{aligned} & \text { (a) } \\ & 1-20 \end{aligned}$ | $\begin{gathered} \text { (b) } \\ 21-50 \\ \hline \end{gathered}$ | $\begin{gathered} \text { (c) } \\ 5100 \end{gathered}$ | $\begin{aligned} & \text { (a) } \\ & 1-20 \end{aligned}$ | $\begin{gathered} \text { (b) } \\ 21-50 \end{gathered}$ | $\begin{gathered} (c) \\ 5100 \end{gathered}$ |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { P-F } \\ & \text { A076 } \end{aligned}\right.$ | 5305-543-2188 | $\begin{aligned} & \text {....... SCREW, MACHINE: } \\ & \text { MS35223-32; (96906) } \end{aligned}$ |  | EA | 12 | 2 | 4 | 7 | 1 | 1 | 2 | 83 | 60 |  |  |
| P-F |  | .....BRUSH ASSEPBLY: AlT220; (02145) |  | EA | 1 | 2 | 5 | 10 | 1 | 1 | 3 | 107 | 80 |  |  |
| A078 |  |  |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|} \text { X1-F } \\ \text { AO79 } \end{array}$ |  | $\begin{aligned} & \text { …....PIN, SPRING: } \\ & \text { 200596-12; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P-F |  | ...... BRUSH ASSEMBLY: <br> SAME AS AOT7 |  | EA | 1 | REFF | Pras | n.. | REF | REF | REF | REF | REF |  |  |
| $\left\{\begin{array}{l} \mathrm{XI}-\mathrm{F} \\ \text { A081 } \end{array}\right.$ |  | ....... BRUSH: <br> same as a0t8 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{X} 1-F \\ & \mathrm{A0} 2 \end{aligned}\right.$ |  | .......PIN, SPRING: <br> SAME AS A079 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & M--D \\ & A O B 3 \end{aligned}$ |  | ...... PLATE, BACK-UP: <br> A17272; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 26 |
| $\left\lvert\, \begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{AO} 4 \end{aligned}\right.$ | 5340-222-8562 | $\begin{aligned} & \text { …...CLANP, LOOP } \\ & \text { 833; (83330) } \end{aligned}$ |  | EA | 1 | * | 1 | 1 | * | 1 | 1 | 12 | 5 |  |  |
| $\begin{aligned} & P-F \\ & A 085 \end{aligned}$ | 5305-637-7079 | ......SCREW, MACHINE: MS35223-26; (96906) |  | EA | 1 | 3 | 7 | 13 | 1 | 2 | 3 | 153 | 120 |  |  |
| P--F | 5310-167-0816 | ......WASHER, FLAT: <br> AN960-6; (88044) |  | EA | 1 | 1 | 3 | 5 | 1 | 1 | 1 | 53 | 36 |  |  |
| $\begin{aligned} & P-F \\ & A 087 \end{aligned}$ | 5325-202-1612 | .....SIUD, SNAP FASTEAER: MS21326-1; (96906) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 27 | 12 |  |  |
| P-F | 6150-478-6229 | ```....buS BAR: B17266; (02145)``` |  | EA | 1 |  | - | 1 | * | * | 1 | 10 | 4 | 3-5 | 54 |
| $\begin{array}{\|l\|l\|} \hline \text { P-F } \\ \text { AOB9 } \end{array}$ | 5305-958-6517 | ....SCREW, CAP, SOCKET HEAD: SAME AS AUL2 |  | EA | 8 | HEF | R8F | REF | EEF | REF | REF | FEF | REF | 3-5 | 60 |
| $\left\lvert\, \begin{aligned} & M-D \\ & A 090 \end{aligned}\right.$ |  |  |  | EA | 2 |  |  |  |  |  |  |  |  | 3-5 | 59 |
| $\left\lvert\, \begin{aligned} & M-D \\ & A 091 \end{aligned}\right.$ |  | .....PLATE: <br> SAME AS A090 |  | EA | REF |  |  |  |  |  |  |  |  | 3-5 | 59 |
| $\left\lvert\, \begin{aligned} & P-F \\ & A 092 \end{aligned}\right.$ | 5305-051-6751 | $\begin{aligned} & \text {. . . . SCREW, CAP, SOCKET HEAD: } \\ & \text { MS16995-16; }(96906) \end{aligned}$ |  | EA | 4 | 2 | 3 | 6 | 1 | 1 | 2 | 59 | 40 | 3-5 | 2 |
| $\begin{aligned} & \text { P--F } \\ & \text { A093 } \end{aligned}$ | 5340-120-1881 | $\begin{aligned} & \text {.....CATCH: } \\ & \quad \text { SCB83314-2SS; ( } 98003 \text { ) } \end{aligned}$ |  | EA | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 33 | 20 | 3-5 | 1 |
| $\begin{aligned} & \text { P-F } \\ & \text { AOS } \end{aligned}$ | 5340-120-1881 | $\begin{aligned} & \text {.... CATCH: } \\ & \text { SAME AS A093 } \end{aligned}$ |  | EA | REFP | REF | REF | REF | REF | REFF | REF | REF | REF | 3-5 | 1 |
| $\begin{aligned} & \text { X2-F } \\ & \text { A095 } \end{aligned}$ |  | ....sCREW, CAP, SOCKET HEAD: 8-32X1-4SHSST; (70276) |  | EA | 4 |  |  |  |  |  |  |  |  | 3-5 | 12 |
| $\underset{A-D}{M-D}$ |  | $\begin{aligned} & \text {.....GUIDE: } \\ & \text { A16731-1; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\underset{A O-D}{M-D}$ |  | $\begin{aligned} & \text {....GUIDE: } \\ & \text { A16731-2; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 11 |
| $\begin{aligned} & \text { P-F } \\ & \text { A098 } \end{aligned}$ | 5305-990-6381 | ....SCREW, CAP, SOCKET HEAD: SAME AS ANzo |  | EA | 2 | REF | REF | REF | REF | REF | REF | REF | REF | 3-5 | 9 |
| $\begin{aligned} & \text { P-F } \\ & \text { A099 } \end{aligned}$ | 5340-209-9371 | .... BUNIPER, RUBBER: 381; (70485) |  | EA | 2 | 2 | 3 | 6 | 1 | 1 | 2 | 59 | 40 | 3-5 | 8 |
| $\begin{aligned} & \text { P--F } \\ & \text { A100 } \end{aligned}$ | 5340-209-9371 | .... BUMPER, RUBBER: SAME AS A099 |  | EA | REF | REF | RLF | REF | REF | REF | REF | REF | REF | 3-5 | 8 |

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

| $(1)$s.ma$\operatorname{cose}$ | (2) <br> FEERAL <br> STOCK NUMBER | degremence mumer a mir. CODE | $\begin{gathered} \text { USABLE ON } \\ \text { COOE } \\ \hline \end{gathered}$ | $\left\{\begin{array}{l} (4) \\ \text { UnIT } \\ \text { OF } \\ \text { HiS } \end{array}\right.$ | $(5)$ <br> QTY <br> INC IM <br> UNIT | (6)30-dAY DS MAINTALLOWANCE |  |  | $\begin{gathered} (7) \\ \text { 30-DAY } \operatorname{cs} \text { MAINT } \\ \text { ALLOUACE } \end{gathered}$ |  |  |  |  | $\begin{gathered} (10) \\ \text { IhUSTRATIONS } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} \hline(\mathrm{a} \\ 1-20 \\ \hline \end{gathered}$ | $\begin{gathered} \text { (b) } \\ 21-50 \end{gathered}$ | $\begin{gathered} (c) \\ 51-100 \\ \hline \end{gathered}$ | (a) | $\begin{gathered} \text { (b) } \\ 21-50 \\ \hline \end{gathered}$ | $\begin{gathered} (\mathrm{c}) \\ 5 \mathrm{c} 100 \end{gathered}$ |  |  | F16 N0. | ITEM NO. OR REFERENCE esignation |
| $\begin{aligned} & x_{2}-\mathrm{F} \\ & \mathrm{Al01} \end{aligned}$ |  | .... SHAPT, SPROCKET: B16868; (02145) |  | SA | 1 |  |  |  |  |  |  |  |  | 3-5 | 49 |
| P-F | 5310-809-4058 | .... WASHER, FLAT: MS27183-10; (95906) |  | EA | 1 |  |  | 1 | * |  | 1 | 8 | 3 | 3-5 | 51 |
| P-P | 5315-826-3251 | $\begin{aligned} & \ldots . . \text { PIN, SPRIRG: } \\ & \text { MS16562-223; (96906) } \end{aligned}$ |  | EA | 1 | - | * | * | * | * | - | 5 | 2 |  |  |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A}, \mathrm{~F} \end{aligned}$ | :3110-250-2099 | .... bearing, ball, flanged: <br> SFR1883PK25; (83086) |  | EA | 4 | 1 | 3 | 5 | 1 | 1 | 1 | 53 | 32 | 3-5 | 31 |
| P-F | :3110-250-2099 | .... bearing, ball, flanged: SAME AS ALOL |  | EA | ref | REF | REF | Ref | REF | REF | REF | REF | REF | 3-5 | 31 |
| $\left\lvert\, \begin{aligned} & \text { P-F-F } \\ & \text { AICO } \end{aligned}\right.$ | :3110-250-2099 | .... bearikg, balle, flangen : same as alot |  | EA | REF | REF | REF | REF | REF | REF | REF | REF | REF | 3-5 | 38 |
| $\left\lvert\, \begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 10 \mathrm{~T} \end{aligned}\right.$ | :3110-250-2099 | .... BEARIRG, BALL, FLANGED: SAME AS A1OL |  | EA | ReF | REF | REF | REF | REF | REF | REF | REF | REF | 3-5 | 38 |
| $\left\lvert\, \begin{aligned} & \mathrm{P}--\mathrm{F} \\ & \mathrm{AlO} \end{aligned}\right.$ | 5340-298-6564 | .....RING, Retaining: MS16624-4-25; (96906) |  | EA | 2 | 2 | 6 | 11 | 1 | 2 | 3 | 118 | 90 | 3-5 | 40 |
| P-F | 5305-637-7079 |  |  | EA | 5 | REF | REF | REF | REF | REF | REF | REF | REF |  |  |
| $\begin{aligned} & \mathrm{p}-\mathrm{F} \\ & \mathrm{~A} 11 \end{aligned}$ | 5930-296-9034 | ....switch, togele: SAME AS A034 |  | EA | 1 | REF | REF | REF | REF | REF | REP | REF | REF | 3-5 | 7 |
| $\left\lvert\, \begin{array}{ll} n-D \\ A 11 \end{array}\right.$ |  | $\begin{aligned} & \cdots \text {.... BRRCKET, SNTTCH: } \\ & \text { B16946; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 5 |
| P--F | 5340-103-0689 | $\begin{aligned} & \text { …. SPACER, SLLEEVE: } \\ & \text { E5712; (08863) } \end{aligned}$ |  | EA | 2 | $*$ | 1 | 1 | * | 1 | 1 | 13 | 6 | 3-5 | 10 |
| P--P | 5340-103-0689 | .....SPACER, SLEEVE: <br> SAME AS All2 |  | EA | REF | ref | ReF | REF | REF | REFF | REF | REF | REF | 3-5 | 10 |
| $\left\{\begin{array}{l} \mathrm{P}-\mathrm{F} \\ \text { A211 } \end{array}\right.$ |  | … SPROCKET ASSEMBLY: B16867-4; (02145) |  | EA | 1 | - | - | 1 | * | $\cdots$ | 1 |  | 3 | 3-5 | 50 |
| A115 |  | ```....SCREN, BUTTON HEAD:(70276)``` |  | EA | 1 |  |  |  |  |  |  |  |  | 3-5 | 47 |
| P-7 ${ }_{\text {P11 }}$ | 5310-685-3744 | .....WASHER, FLAT: <br> AN960C8; (88044) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 15 | 3-5 | 48 |
| M--D |  | $\cdots{ }_{\text {B16761; }}^{\text {BLOCK: }} \text { (021i4) }$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3.5 | 46 |
| P--P |  | ....clutch assmbiy: <br> B16865-3; (02145) |  | EA | 1 | - | * | 1 | * | - | 1 | 8 | 3 |  | 39 |
| A-F ${ }_{\text {P19 }}$ | 5310-275-1993 | .....nut, setp-Locking, hexacon: 22HMC2; (72962) |  | EA | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 33 | 20 | 3-5 | 41 |
|  |  | $\cdots \underset{\text { B16808; } ;(02145)}{\text { STRAIGHT: }}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P--P |  | .....gear ASSBMBLY: B16860; ( 02145 ) |  | EA | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 33 | 20 |  |  |
| x2-F <br> A122 <br> 1 |  | .........ashier, flat: <br> A16765; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\begin{aligned} & x_{1-P} \\ & \text { A123 } \end{aligned} \right\rvert\,$ |  | .......SPACER, SLEEVE: A16766; ( 02145 ) |  | EA | $2$ |  |  |  |  |  |  |  |  |  |  |
| $\left.\begin{gathered} x_{1-F} \\ \text { A124 } \end{gathered} \right\rvert\,$ |  | $\ldots . . . \text { SPACER, }_{\text {SALES AS ALEEVE: }}$ |  | EA | EEF |  |  |  |  |  |  |  |  |  |  |
| $\left\|\begin{array}{l} \text { xi-F } \\ \text { Al25 } \end{array}\right\|$ |  | ........gear, MODIFIED: |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |

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


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


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

|  | (2) FEDERAL stock NUMBER | description | $\begin{gathered} \text { USABLE O:N } \\ \text { COOE } \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline \text { (4) } \\ \text { unft } \\ \text { of } \\ \text { reas } \end{array}$ | $\begin{array}{\|c\|} \hline \text { (5) } \\ \text { QTY } \\ \text { THC IN0 } \\ \text { UNIT } \end{array}$ | $\begin{aligned} & \text { (6) } \\ & \text { 30-DAY DS MAIMT } \\ & \text { ALLOSAMCE } \end{aligned}$ |  |  | $\begin{aligned} & \text { (7) } \\ & \text { 30-Dar Es malit } \\ & \text { ALLOWACE } \end{aligned}$ |  |  |  | (9)DEPPTMIMTAYPER100EQUIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} \hline(\mathrm{a}) \\ 1-20 \\ \hline \end{gathered}$ | $\begin{gathered} (\mathrm{b}) \\ 21-50 \end{gathered}$ | $\int_{51-100}^{(c)}$ | $\begin{gathered} \substack{\text { (a) } \\ 1-20} \end{gathered}$ | $\begin{aligned} & (\mathrm{b}) \\ & 21-50 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { (c) } \\ & \hline 5400 \end{aligned}$ |  |  |  |  |
|  |  |  |  | ea | 2 |  |  |  |  |  |  |  |  | 3-6 | 58 |
| A177 |  |  |  | ea | REP |  |  |  |  |  |  |  |  | 3-6 | 58 |
| $\left.\right\|_{\text {A178 }} ^{P--F}$ |  | -...ROD, STABILIZER: |  | en | 1 | - | * | 1 | - | - | 1 | 8 | 3 | 3-6 | 62 |
|  |  |  |  | En | 2 |  |  |  |  |  |  |  |  | 3-6 | 11 |
|  |  |  |  | za | REF |  |  |  |  |  |  |  |  | 3-6 | 11 |
| $\mathrm{P}-\mathrm{F}$ |  | ....CLITCH ASSEMBLY: B16902; ( 02145 ) |  | ea | 1 | - | - | 1 | - | - | 1 | 8 | 3 | 3-6 | 24 |
| $\underset{\mathrm{P}-\mathrm{F}}{\mathrm{~N}} \mathbf{2}$ | 5310-275-1993 |  |  | EA | 1 | REF | REFP | REF | REP | TRE | REF | REF | RIEP | 3-6 | 25 |
| ${ }_{\text {xi }}$ |  | ..... SHaFT, STRAIGHT: A16849; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| ${ }_{\mathrm{P}-\mathrm{F}}^{\mathrm{P}} \mathrm{~F}$ |  | .....GEAR ASSBRBLY: B16860; ( 02145 ) |  | ea | 1 | * | 1 | 1 | - | 1 | 1 | 13 | 6 |  |  |
| x2-F |  | …... WASHER, PLAT: SAME AS A122 |  | ea | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {A1-F }} ^{x}$ |  | $\underset{\text { …... SPACER, SLEEVE: }}{\text { SAME AS ALE3 }}$ |  | ea | 2 |  |  |  |  |  |  |  |  |  |  |
| $\boldsymbol{x}_{\mathrm{x}_{1}-\mathrm{F}}$ |  | '.......spacen, sleevz: SAME AS A123 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| (1888 |  | .......gEAR, MODIFIED: SAME AS Al25 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\mathrm{Xa}-\mathrm{F}}$ |  | ...... ARMATURE, clutch: SAME AS A126 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\mathrm{P}-\mathrm{F}} ^{\mathrm{A} 90}$ | :3120-725-6598 | .......bearing, sleEve: SAME AS A127 |  | ea | 1 |  | REF | REF | REF | REP | REF | REF | RERP |  |  |
| P--F | 5310-167-0797 | . . . . . . WASHER, FLAT: SAME AS A128 |  | EA | 2 |  |  |  |  |  |  | REF | REF |  |  |
| $\begin{aligned} & \text { X2-F } \\ & \text { A192 } \end{aligned}$ | 15305-531-9520 | .......SCP Y, machine: SAME AS AL29 |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| P-FF | :5305-068-5411 | ......sCREN, CAP, SOCKGT HRAD: same as aljo |  | ea | 2 | REP | refr | REF | REF | REFP | REP | REF | REF |  |  |
| $\begin{aligned} & \mathrm{M}-\mathrm{D} \\ & \mathrm{Alg4} \end{aligned}$ |  | ......SPACER, сLUTCH: <br> A16764-1: (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { X2-F } \\ & \text { A195 } \end{aligned}\right.$ |  | .....ROTOR, MODIFIED: SAME AS A132 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| X1-F |  | $\begin{aligned} & \ldots . . \text { FIELD: } \\ & \text { SANE AS A133 } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|} \mathbf{x} 2-\mathbf{F} \\ \text { A1997 } \end{array}$ |  | ......WASHER, FLAT: SAME AS A134 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|} x_{1-F} \\ A 198 \end{array}$ |  | .....collar, cLuTch: SAME AS A135 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { P--F } \\ & \text { A199 } \end{aligned}\right.$ | !5315-753-3892 | ......PIN, SPRING: SAME AS A136 |  | EA | 1 |  | REF |  | fer |  | REF | REF | ReF |  |  |
| $\begin{aligned} & \mathbf{x}_{1}-\mathrm{F} \\ & \mathrm{~A} 200 \end{aligned}$ |  | ....housing, y fine feed: <br> B16738; (0214\%) |  | EA | 1 |  |  |  |  |  |  |  |  | 3-6 | 18 |

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


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

| $\begin{gathered} (1) \\ \hline \text { SMR } \\ \text { cODR } \end{gathered}$ | (2) FEDERAL STOCK NUMBER | MEEFERENCE NUMBER \& MFR. CODE | $\underset{\text { CODE }}{\underset{\text { USABLE }}{\text { ON }}}$ | $\begin{aligned} & (4) \\ & \text { UWIT } \\ & \text { OF } \\ & \text { PEAS } \end{aligned}$ | $\left\lvert\, \begin{gathered} \text { (5) } \\ \text { OTY } \\ \text { OHC IM } \\ \text { UWIT } \end{gathered}\right.$ | (6) <br> 30-DAY DS MAINT <br> ALLOMAHCE |  |  | (7)30-dar GS MaintMLLOANCE |  |  |  |  | ( 101 illustratiohs |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{array}{\|c\|} \hline(\mathrm{a}) \\ 1-20 \\ \hline \end{array}$ | $\begin{gathered} (\mathrm{b}) \\ 21-50 \\ \hline \end{gathered}$ | $5 \begin{gathered} (c) \\ 51-100 \end{gathered}$ | $\begin{gathered} (a) \\ 1-20 \end{gathered}$ | $\begin{gathered} (b) \\ 21-50 \end{gathered}$ | $\begin{aligned} & \text { (c) } \\ & 05100 \end{aligned}$ |  |  | F16 NO. | ITEM NO. OR REFERENCE DESIGHATION |
| P-F-F | 5340-298-6564 |  |  | EA | 1 | REF | REF | REF | REF | REF | REF | REF | REF | 3-6 | 22 |
|  | 5310-275-1993 | -...NUT, SELF-LOTKIMG, Hexacon: |  | EA | 1 | HeF | REF | REF | REF | REF | REF | REF | REP | 3-6 | 23 |
| ( $\begin{aligned} & \text { X1-F } \\ & \text { A228 }\end{aligned}$ |  | .....shaft, straight: |  | ea | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|c} \text { P--F } \\ \text { A229 } \end{array}$ | 3020-640-4476 |  |  | EA | 1 | REF | REF | REF | REF | REF | REF | REF | REF |  |  |
| $\left.\right\|_{\mathbf{x}_{1}-\mathrm{F}} ^{\mathrm{A} 230}$ | 5315-550-5011 | ….PIN, SPRISG: SAME AS A146 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\int_{\text {A23I }}^{N-D D}$ |  |  |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P-F-F | 5305-959-0382 |  |  | EA | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 40 | 24 |  |  |
| P--F | 5305-990-6381 | $\underset{\text {-....SCREN, CAP, SOCKET HEAD: }}{\text { SAME AS AOZO }}$ |  | EA | 4 | Ref | REF | REF | ReF | REF | REF | REF | REF |  |  |
|  | 5305-043-6476 | …...SCREw, MACHINE: |  | EA | 4 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
|  |  | $\begin{aligned} & \text { …CATCH: } \\ & \text { SAME AS A093 } \end{aligned}$ |  | ea | 2 | hef | REF | REF | ReFF | ReFr | REP | REF | REF | 3-6 | 4 |
| P-F\% |  | $\begin{aligned} & \text { …CATCH: } \\ & \text { SAME AS A093 } \end{aligned}$ |  | EA | REF | fef | REF | PREF | ReF | HisF | Ref | REF | REP | 3-6 | 4 |
| P--F | 5340-817-5516 | …. BUMPER: $\quad 16 ;(70485)$ |  | ea | 2 | * | 1 | 1 | - | 1 | 1 | 13 | 6 | 3-6 | 8 |
| P-7 P | 5340-817-5516 | $\ldots$.... PIMPER: $\underset{\text { SAME AS A237 }}{ }$ |  | EA | REF | REF | REF | REF | REF | REF | REF | REF | REF | 3-6 | 8 |
| H-D |  | $\begin{aligned} & \text {.....STANDOFF: } \\ & \text { A18411: }(02145) \end{aligned}$ |  | ea | 2 |  |  |  |  |  |  |  |  | 3-6 | 9 |
| M--D |  | ....STANDOFF: SAME AS A239 |  | EA | REF |  |  |  |  |  |  |  |  | 3-6 | 9 |
| P--F | 5305-272-3533 | ....SETSCREW; |  | EA | 6 | 1 | 2 | 3 | 1 | 1 | 1 | 33 | 18 | 3-6 | 66 |
| X2-F |  | $\begin{gathered} \ldots . . \text { CLAMP, } \\ \text { L1-6; } \\ \text { HUB: } \\ \hline 1041) \end{gathered}$ |  | EA | ? |  |  |  |  |  |  |  |  | 3-6 | 32 |
| ${ }_{\text {¢ }} \times 2-\mathrm{F}$ |  | ....CLAMP, HUB: SAME AS A24z |  | EA | REF |  |  |  |  |  |  |  |  | 3-6 | 34 |
| P--F |  | .... BEARING, BALL, FLANGED: SFR43FK25; (83086) |  | ea | 6 | 1 | 2 | 3 | 2 | 1 | 1 | 40 | 24 | 3-6 | 26 |
| ${ }_{\text {A }}^{\text {P2 } 245}$ |  | .... bearing, ball, flanged: <br> SAME AS A244 |  | EA | REF | ref | ref | Ref | Ref | ref | ReF | REF | fer | 3-6 | 26 |
| P--F |  | ....bearing, ball, fianged: SAME AS AzL4 |  | EA | Ref | REF | Ref | ReF | REF | REF | Rep | ReF | REF | 3-6 | 35 |
| P--F |  | ....bearing, ball, flanged: SAME AS A2L4 |  | EA | Ref | REF | REF | ref | REF | fer | Ref | REF | REF | 3-6 | 54 |
| P--F |  | ....bearing, ball, flanged: SAME AS ACL! |  | EA | REF | Ref | REF | Ref | fef | REF | Ref | Ref | REF | 3-6 | 54 |
| P-- P |  | ....bearing, ball, flanged: SAME AS AZL4 |  | EA | ReF | REF | REF | REF | REF | REF | REF | Ref | REF | 3-6 | 57 |
| $\left.\right\|_{\mathrm{A}-\mathrm{F}} ^{\mathrm{P} 20 \mathrm{O}}$ |  | ....bearing, ball, flanged: SAME AS AIOL |  | EA | 2 | Ref | Ref | Ref | mef | REF | ReF | REF | REF | 3-6 | 21 |

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

| $\begin{gathered} (1) \\ \cos 2 \\ \cos 2 \end{gathered}$ | (2) FEDERAL STOCK NUMBER | DESCRIPTIOMREFEREMCE MUNER \& MFR. COOE | $\underset{\text { COOE }}{\text { USABLE }}$ |  |  | $\begin{aligned} & \text { (6) } \\ & \text { 30-BAY DS MajNT } \\ & \text { ALL OHANCE } \end{aligned}$ |  |  | $\begin{aligned} & \text { (7) } \\ & \text { 30-Dar }{ }^{2} \text { maint } \end{aligned}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | (a) | (b) ${ }_{\text {(b) }}$ | ${ }_{\text {S }}^{\text {(c) }}$ | ( ${ }_{\text {( }}^{1-20}$ | 21-50 | T 5 |  |  |  |  |
| P-7 |  | ....brartig, ball, plamged: SNAE AS A104 |  | EA | REP | REF | REF | REF | REP | REF | REF | REF | REP | 3-6 | 21 |
| $\underset{p-p}{\text { P25 }}$ | 5340-298-6564 | $\begin{gathered} \text {.... rime, restaisitig: } \\ \text { Sane as aiō } \end{gathered}$ |  | ma | 2 | REP | REP | REP | REFP | REF | REF | REF | REF | 3-6 | 50 |
| $\mathrm{P}_{2253}$ |  |  |  | sa | 1 | REP | REF | $n 0^{08}$ | REF | REP | REP | REF | REF | 3-6 | 17 |
| $\mathrm{P}_{\mathrm{P} 254}$ | 5315-841-4442 | ....PIF, SPRIMG: ${ }_{\text {MS16562-224; }}$ (96906) |  | ea | 1 | - | - | 1 | - | - | 1 | 8 | 3 |  |  |
| $P-p$ | 5310-949-6284 |  |  | EA | 14 | 1 | 2 | 3 | 1 | 1 | 1 | 55 | 42 | 3-6 | 30 |
| P-P | 5305-988-7605 | ....sCREW, CAP, sOCIGT RIRAD: same as a056 |  | ${ }_{8 n}$ | 6 | REP | REF | REF | REF | REP | REF | REF | REF | 3-6 | 29 |
| $\begin{aligned} & \mathrm{x} 2-\mathrm{F} \\ & \mathrm{~A} 257 \end{aligned}$ |  |  |  | ea | 3 |  |  |  |  |  |  |  |  | 3-6 | 19 |
| P-- | 5305-959-1909 |  |  | ${ }_{\text {en }}$ | 8 | 1 | 2 | 3 | 1 | 1 | 1 | 40 | 24 | 3-6 | 45 |
| P-P | 5305-637-7079 | $\begin{aligned} & \text { … SCREBN, MACHISES: } \\ & \text { SAEE AS AOBS } \end{aligned}$ |  | EA | 4 | REF | SEP | REIP | REP | REF | REP | REF | ReEf | 3-6 | 5 |
| ${ }^{\text {x2-p }} \mathbf{A 2 6 0}$ |  | $\cdots \underset{6-32 \pi T-8 S H B 8 T ; ~(70276)}{\text {...schen, }}$ |  | en | 2 |  |  |  |  |  |  |  |  | 3-6 | 3 |
| P-7 ${ }_{\text {A }}$ |  |  |  | en | 2 | - | 1 | 1 | * | 1 | 1 | 13 | 6 | 3-6 | 68 |
| R--F |  | ....shart, baill bushise: save as A261 |  | ea | REF | REF | REF | REF | REF | REF | REFP | REP | REF | 3-6 | 68 |
| P-P | 5305-988-7603 |  |  | ea | 4 | 4 | 9 | 16 | 1 | 2 | 4 | 164 | 126 | 3-6 | 59 |
| $\mathrm{P}-\mathrm{F}$ | 5340-209-9371 | .... EURPPRA, RUBBER: sAKE is A099 |  | ER | 2 | REF | REF | REF | REF | res | REP | REP | REF | 3-6 | 1 |
|  | 5340-209-9371 | … sugerra, hubbss: |  | ¢a | REP | REF | REF | REF | REF | REP | REF | REF | REF | 3-6 | 1 |
| P-P | 5325-202-1612 |  |  | sa | 1 | REF | REF | Ref | REF | heif | REF | REF | REF |  |  |
| P-7 ${ }^{267}$ | 5977-478-6207 | $\cdots \text {.... Brush ASSmaty; }$ |  | ${ }^{\text {en }}$ | 1 | - | - | 1 | - | - | 1 | 8 | 3 | 3-6 | 41 |
| P--P | 5305-990-6381 | ....SCREN, CAP, BOCIXT GRAD: sane as aozo |  | Ba | 2 | Feg | REP | REF | REP | REP | REP | HEP | REP | 3-6 | 42 |
| (2269 |  |  |  | en | 1 |  |  |  |  |  |  |  |  |  |  |
| A2-p |  | …. Housirg, Brusis: |  | ¢a | 1 |  |  |  |  |  |  |  |  |  |  |
| P--P |  | ......brush asserbly : SARE AS AOT7 |  | en | 1 | REP | REF | R ${ }^{\text {Pr }}$ | REF |  | REF | REP | REF |  |  |
| - |  | .......BRUSH: <br> SAME AS AOT8 |  | ra | 1 |  |  |  |  |  |  |  |  |  |  |
| 起-F |  | .......PIN, SPRING: <br> SANE AS A079 |  | Ea |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & P-F \\ & A 274 \end{aligned}$ |  | ......brush assabbly: SAME AS AOTT |  | ea |  | RIEP | REF | REF | REP | REP | REP | HeF | REF |  |  |
| $\mathrm{x}_{\mathrm{a} 275}$ |  | .......BRUSH: <br> SAVE AS AOT8 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| B-14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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


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


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


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

| $\begin{gathered} (1) \\ \operatorname{SNR} \\ \operatorname{CoDR} \end{gathered}$ | (2) federal NUMBER | $\begin{gathered} (3) \\ \text { DESCRIPTION } \end{gathered}$ | $\begin{gathered} \text { USABLE ON } \\ \text { CODE } \end{gathered}$ | $\begin{array}{\|c\|} \hline(4) \\ \text { UNTIT } \\ \text { OF } \\ \text { WEAS } \end{array}$ | (5TOMYIMITUNIT | $\begin{aligned} & \text { (6) } \\ & \text { 30-DAY DS MIIMT } \\ & \text { ALLLOHAKCE } \end{aligned}$ |  |  | $\begin{gathered} \text { (7) } \\ \text { 30-DAY ES MINT } \\ \text { ALLOUAMCE } \end{gathered}$ |  |  |  |  | IMSTRATIOUS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | REFEPEMCE MUMEER \& MFR. CODE |  |  |  | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | $\begin{gathered} (\mathrm{b}) \\ 21-50 \\ \hline \end{gathered}$ | $5(\mathrm{c})$ | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | $1 \begin{aligned} & (\mathrm{b}) \\ & 21-50 \end{aligned}$ | $\int_{5 \rightarrow 100}$ |  |  | FIG WO. |  |
| $\begin{aligned} & \text { x2-P } \\ & A 376 \end{aligned}$ |  | $\cdots \xrightarrow{\text { HRTMNSD; }} \text { (07886) }$ |  | EA | 2 |  |  |  |  |  |  |  |  | 3-7 | 51 |
|  |  | $\begin{gathered} \ldots \text { SNOB: } \\ \text { SAS A376 } \end{gathered}$ |  | EA | ref |  |  |  |  |  |  |  |  | 3-7 | 51 |
| P--P |  | ....SWITCH, PUSHBYTTON: <br> C1129R; (81640) |  | EA | 1 | * | - | 1 | - | - | 1 | 8 | 3 | 3-7 | 69 |
| $\begin{gathered} P-77 \\ 1379 \end{gathered}$ | 3120-662-8185 | .....bearimg, slekye: She as als6 |  | EA | 4 | ger | REF | fief | ref | REF | ger | REF | REF | 3-7 | 55 |
| $\left\lvert\, \begin{aligned} & \text { P-F } \\ & \text { A3D } \end{aligned}\right.$ | 3120-662-8185 | .....mearing, slezve: SAME AS ALS6 |  | ea | fer | REF | FEF | fiEP | pef | ger | gef | REF | fef | 3-7 | 55 |
| P-789 | 3120-662-8185 | .... EEAPITG, SIEEVE: SAME RS A156 |  | ea | feF | feF | fer | feF | nef | fer | REF | REF | EEF | 3-7 | 55 |
| P-F | 3120-662-8185 | .... prarimg, siseve: SAEF AS A. 56 |  | EA | REF | fief | HEF | REF | hef | REF | fer | REF | fer | 3-7 | 55 |
| $\underset{\sim}{18-83}$ |  | ....CEAIT, MDIFIET; 316994-2; (02145) |  | EA | 1 | - | * | 1 | , | - | 1 | $\varepsilon$ | 3 | 3-7 | 49 |
| P-7 | 5305-637-8249 | .... ScFEw. MACHINE: 4535223-43; (96906) |  | EA | 2 | 2 | 3 | 6 | 1 | 1 | 2 | 65 | 45 | 3-7 | 22 |
|  | 5305-988-7603 | ....SCEEN, CAP, SOCRET HEAD: SAME as Aこ63 |  | EA | 4 | fer | fef | fies | Pep | EEF | Eme | feF | REF | 3-7 | 50 |
| $\frac{x>-7}{2306}$ |  | .... itactet, mearimg, fast feed: A16569; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  | 3-7 | 27 |
|  |  |  |  | EA | 2 |  |  |  |  |  |  |  |  | 3-7 | 52 |
| ${ }^{220-5}$ |  | $\begin{aligned} & \cdots . \operatorname{SLEENE}, \\ & \text { SANE AS A } 387 \end{aligned}$ |  | EA | fief |  |  |  |  |  |  |  |  | 3-7 | 52 |
| 18-7 | 5305-419-6733 |  |  | EA | 2 | - | 1 | 1 | - | 1 | 1 | 13 | 6 | 3-7 | 70 |
| $\left\lvert\, \begin{aligned} & x=-7 \\ & 2030 \end{aligned}\right.$ | 6740-249-8801 | .... PLATE, BEARIWG, EACX UP: SNEE AS ADS7 |  | EA | 1 |  |  |  |  |  |  |  |  | 3-7 | 44 |
| \%2-7 |  | ....frace, bentivg: <br> 814648-1; (02145) |  | ea | 2 |  |  |  |  |  |  |  |  | 3-7 | 81 |
| ars |  |  SAME AS A3y1 |  | ea | fef |  |  |  |  |  |  |  |  | 3.7 | 83 |
| P-F | 5315-039-5563 | $\begin{aligned} & \text { … FIB, STMING: } \\ & \text { RS16562-211; } \\ & \hline 196006 \text { ) } \end{aligned}$ |  | EA | 1 |  | - | 1 | - | - | 1 | 8 | 3 |  |  |
| F-F | 5315-058-9698 | … FIIV. SPRIIGG: ${ }_{\text {WSI6562-191; }}$ (96906) |  | EA | 1 | - | * | 1 | - | - | 1 | 8 | 3 | 3-7 | 56 |
| 8-7 |  | ....litic, commectivg: <br> CAU4127LLDD; (72625) |  | EA | 1 | * | - | 1 | - | - | 1 | 8 | 3 | 3-7 | 6 |
| - 0 | 5340-720-8064 | .....fing, FETATMITG: <br> रS16621-1025; (96906) |  | EA | 1 | - | - | 1 | - | - | 1 | 8 | 3 | 3-7 | 25 |
| \%-2 |  | ....PAD, HEEL, CPTICS: A149h1: (02145) |  | EA | $2$ |  |  |  |  |  |  |  |  | 3-7 | 38 |
| $\underset{x}{k \rightarrow 09}$ |  | .... PAD, HREL, OPTICS: SANE AS A397 |  | EA | feF |  |  |  |  |  |  |  |  | 3-7 | 38 |
|  | 5305-013-3359 | ....sctew, wachive: <br> (35241-19; (96906) |  | EA | $2$ | * | 1 | 1 | - | 1 | 1 | 13 | 6 | 3-7 | 37 |
| nes |  | ....COILED COFD, MODIFIED: 316971-2; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |

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

| $\begin{gathered} (18) \\ \sin \\ \cos \end{gathered}$ | (2) <br> FEDERAL STOCK NUMBER | (3)DESCRIPTIONREFERENLE NUHBER \& MFR. CODE USABLE ONCODE |  | $\begin{gathered} \text { (4) } \\ \text { UNIT } \\ 0 F \\ \text { MEAS } \end{gathered}$ | (5)QTYINC INUNIT | (6) 30-DAY DS MAINTALLOWANCE |  |  | (7) <br> 30-DAY GS MAINT ALLOWANCE |  |  | (8)1 YRALHPER100ECUIPCMTGCY | (9)DEPOTMAINTALHPER100EQUIF | IHLUSTRATIONS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{gathered} (\mathrm{a}) \\ 1-20 \end{gathered}$ |  | $\begin{gathered} \hline(\mathrm{b}) \\ 21-50 \\ \hline \end{gathered}$ | $\begin{gathered} (c) \\ 51-100 \end{gathered}$ | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | $\begin{gathered} \hline(\mathrm{b}) \\ 21-50 \\ \hline \end{gathered}$ | $\begin{gathered} \text { (c) } \\ 5100 \end{gathered}$ | F1G NO. |  |  | $\begin{aligned} & \text { REFERENCE } \\ & \text { OESIGAATION } \end{aligned}$ |
| $\mathrm{P}_{\mathrm{A} 401}$ | 5340-998-0612 | $\begin{aligned} & \text {.... CLAMP, LOOP: } \\ & \text { MS25281F2; }(96 ; 06) \end{aligned}$ |  |  | EA | 2 | * | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| P-T | 5340-998-0612 | .... CLAMP, LOOP: SAME AS A4O1 |  | EA | FEF | REF | feF | EEF | REF | HEF | REF | REF | DEF |  |  |
| $\begin{aligned} & P-F \\ & A 603 \end{aligned}$ | 5310-167-0816 | .... WASHER, FLAT: <br> SAME AS A086 |  | EA | 2 | REF | REF | REF | FEF | REF | KEF | REF | REF |  |  |
| P-F | 5310-771-3861 | .....WASHER, FLAT: AN $960-416 \mathrm{~L} ;(88014)$ |  | EA | 4 | 1 | 2 | 3 | 1 | 1 | 1 | 40 | 25 | 3-7 | 62 |
| P-F | 5310-914-8217 | .... FASTENER, PUSH NUT: <br> PS188007; (77122) |  | EA | 1 | * | * | 1 | - | * | 1 | 8 | 3 | 3-7 | 7 |
| $\sum_{A * 06}=0$ |  | ..... HOUSING, CLUTCH: Aㄴ568; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  | 3-7 | 32 |
| $\left\lvert\, \begin{array}{ll} x-D \\ A 407 \end{array}\right.$ |  | ....SiAFT, ELEvating, FAST FEED: <br> samp. as a339 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & M-D \\ & A 408 \end{aligned}$ |  | ....sRIM, LAMINATED: <br> A17649; (02145) |  | EA | 3 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & x-7 \\ & \text { f. } 40, \end{aligned}$ |  | ....SCREW, CAP, SOCKET HEAD: SAME AS A066 |  | EA | 8 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & P-F \\ & A 410 \end{aligned}$ |  | $\begin{aligned} & \text { … SPPOCKET: } \\ & \text { A1 } 6328 ;(02145) \end{aligned}$ |  | EA | 2 | * | 1 | 1 | * | 1 | 1 | 13 | 6 | 3-7 | 21 |
| $\stackrel{?}{\text { PR }}$ |  | .....SPROCKET : <br> SANE AS Ah10 |  | EA | REF | REF | REF | REF | REF | feF | REF | REF | HEF | 3-7 | 21 |
| $4-D$ 4612 |  | $\begin{aligned} & \text { …PLATE: } \\ & \text { B17RS8; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P-F ${ }_{\text {P }}$ | 5305-959-0382 | ...SCREW, CAP, SOCKET READ: SAME AS AC32 |  | EA | 4 | FEF | REF | FeF | REF | REF | REF | REF | REF |  |  |
| $3{ }^{3} 7$ | 5305-959-0379 | ...SCREW, CAP, SOCKET HEAD: SAME AS A3HI |  | EA | 4 | REF | ${ }_{\mathrm{n}} \mathrm{EF}$ | REF | REF | REF | REF | REF | FEF |  |  |
| $\begin{aligned} & 62-7 \\ & 4.5 \end{aligned}$ |  | . . PEAR PLA'IE SUBASSEMBLY: D17580-2; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 2-7 \\ & 1416 \end{aligned}$ |  | ... magazine, chain : <br> sade as a00G |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 2-7 \\ & 6177 \end{aligned}$ |  | ... MAGAZINE, CHAIN: SAME AS A007 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| 2-F |  | . . . plate, chaill guide: SAVE AE AODB |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $2-7$ 40 |  | ... GUIDE, CEMTER: SALE AE A009 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 2-7 \\ & i 2 \end{aligned}$ |  | ...GUDE, CHATA, UPPER: SANE AS ACIC |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 3-7 \\ & 0.21 \end{aligned}$ |  | ...GTDE, CHATM, UPPER: SANE AS AD10 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & z= \\ & i z \end{aligned}$ |  | ...gise, cuain, lowen: SALE AS AOLT |  | EA | $a$ |  |  |  |  |  |  |  |  |  |  |
|  |  | …GIDE, GHATM, LOWER: उAve AS A01? |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| F | 120-324062 |  |  | E:A | $z$ | PEF | REF | FEF | PEF | RET | REF | REF | Rt F |  |  |
| $-\bar{z}$ | $312056-6$ |  |  | EA | PEF | PEF | PEF | REF | PFF | FEF | Ref | REF | PEF |  |  |

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

|  | (2) <br> FEDERAL <br> STOCK NUMBER | Prescris) ofion | $\begin{aligned} & \text { USABLE ON } \\ & \text { CODE } \end{aligned}$ | (4)UNITOFHEAS | $\|$$(5)$ <br> GTY <br> INC INM <br> UNIT | (6) <br> 30-DAY DS MAINT ALLOAANCE |  |  | (7) <br> 30-DAY GS MAINT ALLOWANCE |  |  | (8)1 YRALy PER100EqUIPCHIGCY | (9)DEPOTMAINTALLAPER100EQUIP |  (10) <br> ILLUSTRATIONS  <br> (a) (b) <br> FIG ITEM NO. OR <br> NO. REFEAENCE <br> DESIGAATION  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} (\mathrm{a}) \\ 1-20 \\ \hline \end{gathered}$ | $\begin{gathered} \text { (b) } \\ 21-50 \\ \hline \end{gathered}$ | $\begin{aligned} & (\mathrm{c}) \\ & 51-100 \\ & \hline \end{aligned}$ | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | $\begin{gathered} \text { (b) } \\ 21-50 \end{gathered}$ | $\begin{gathered} (c) \\ 5100 \end{gathered}$ |  |  |  |  |
| $\left\lvert\, \begin{aligned} & P-F \\ & \text { A426 } \end{aligned}\right.$ | 5315-935-3553 | ...PIN, SPRING: $\quad$ 15-250-0500; (73975) |  | EA | 2 | - | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| P--F | 5305-639-4777 | ...SCREN, MACHINL: MS35233-27; (96906) |  | EA | 27 | 2 | 4 | 8 | 1 | 1 | 2 | 101 | 75 |  |  |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 428 \end{aligned}$ | 5305-959-1082 | ...SCREW, JAP, SOCKET HEAD: SAMF in AOI9 |  | EA | 2 | REF | REF | REF | REF | REF | REF | FEF | REF |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 429 \end{aligned}\right.$ | 5305-990-6381 | ... SCFEW, CAP, SOCKET HEAD: <br> SAME 15 S AO2O |  | EA | 2 | REF | REF | REF | HEF | HEF | REF | REF | FEF |  |  |
| $\text { X } \begin{aligned} & \text { X2-F } \\ & \text { A430 } \end{aligned}$ |  | $\begin{aligned} & \text {....GUTDE, CHATN: } \\ & \text { SAME AS AO21 } \end{aligned}$ |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & x_{2-F} \\ & A 431 \end{aligned}$ |  | ...GUIDE, CEALN: SAME AS AO21 |  | EA | FEF |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { X2-F } \\ & \text { Al432 } \end{aligned}\right.$ |  | ...GUTDE: SAME AS A023 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\{\begin{array}{l} \text { A--F-S } \\ \text { A4 } 33 \end{array}\right.$ |  | ..STAGE ASSEMBLY: C17611-1; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { P- } \\ & \text { A } 43 \end{aligned}$ |  | ...STAGE GLASS ASSEMBLY: <br> C17481; (02145) |  | EA | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 40 | 25 | 3-8 | 42 |
| $\left\lvert\, \begin{aligned} & \mathrm{X}-0 \\ & \text { A435 } \end{aligned}\right.$ |  | $\begin{aligned} & \text { ….STRIP: } \\ & \quad \text { B17310-1; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{x}-0 \\ & \mathrm{~A}_{4} 36 \end{aligned}\right.$ |  | $\begin{aligned} & \text { …SIRIP: } \\ & \text { B17310-2; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & x-0 \\ & \mathrm{~A}_{1}-0 \end{aligned}\right.$ |  | $\begin{array}{r} \text { … CAP, STAGE ERD: } \\ \text { B17370; }(02145) \end{array}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\{\begin{array}{l} x_{1}-0 \\ A_{4} 38 \end{array}\right.$ |  | .... GLASS, STAGE: <br> A16658; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & x-0 \\ & \mathrm{~A}_{1}-39 \end{aligned}$ |  | $\begin{aligned} & \cdots \text { UUSHIOX: } \\ & \text { B17585; }(02145) \end{aligned}$ |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & x-0 \\ & A 440 \end{aligned}\right.$ |  | .... Cushion: <br> SAME KS A439 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{Y}_{1}-0 \\ & \text { A44 } \end{aligned}\right.$ |  | $\begin{aligned} & \ldots \text { DIFFUSER: } \\ & \text { A16657; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{Xa}-\mathrm{r} \\ & \mathrm{~A}, \mathrm{a} \text { ? } \end{aligned}$ |  | $\begin{aligned} & \cdots \text {. SPACER, DIFFUSER: } \\ & \text { : } 17625 ;(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| X2-F | 5303-984-7360 | ...SCREW, CAP, SOCKET HEAD: MS35191-26B; (96906) |  | EA | 3 |  |  |  |  |  |  |  |  |  |  |
| P-.F |  |  |  | EA | 1 | * | 1 | 1 | * | 1 | 1 | 13 | 6 | 3-8 | 40 |
| P-F |  | .... TOLEER: <br> 316689-3; (02145) |  | EA | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 40 | 24 | 3-8 | 40 |
| $\left\lvert\, \begin{aligned} & P-F \\ & A 64, ~ \end{aligned}\right.$ |  | $\begin{aligned} & \ldots \text { PJLEER: } \\ & \quad 31 \leq E 80-4 ;(02145) \end{aligned}$ |  | EA | 1 | * | 1 | 1 | * | 1 | 1 | 13 | 6 | 3-8 | 40 |
| $\begin{aligned} & x_{2-F}-F \\ & 4448 \end{aligned}$ |  | $\begin{aligned} & \cdots \text { SHAFT: } \\ & \text { A16928; (0214;) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 40 |
| F-F | 3110-640-8166 | ... bearing, ball , atimlar: SFR168K25: (83086) |  | EA | 6 | 4 | 9 | 16 | 1 | 2 | 4 | 127 | 150 |  |  |
| $\begin{aligned} & \text { P--F } \\ & A 450 \end{aligned}$ | 3110-640-8166 | ... BEAFING, BALL, ANYULAR: <br> SAVE AS ALLG |  | EA | REF | REF | REF | REF | REF | REF | FEF | REF | REF |  |  |

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


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

| $\begin{gathered} (1) \\ \operatorname{sMR} \\ \operatorname{coDE} \end{gathered}$ | (2) FEDERAL STOCK NUMBER | OESCRIPTIOM | $\begin{gathered} \text { USABLE ON } \\ \text { CODE } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline(4) \\ & \text { UWIIT } \\ & \text { OF } \\ & \text { MEAS } \end{aligned}$ | $\begin{array}{\|l\|} \hline(5) \\ \text { OTY } \\ \text { OCLIM } \\ \text { UNIT } \end{array}$ | (6)30-DAY DS MAINTALLOWAMCE |  |  | (7)$30-$ DAYALL OSNALNT |  |  | (8)1 YRALYPR100EQUIPCKTGCY | (9)QEPOTMalALPTLPEEQUIP | $\begin{gathered} (10) \\ \text { IhUSTRATIONS } \\ \hline \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | REFERENCE MUHBER \& MFR. CODE |  |  |  | $\begin{array}{\|c\|} \hline(\mathrm{a}) \\ 1-20 \\ \hline \end{array}$ | (b) | (c) ${ }_{5}$ | $\begin{array}{\|c\|} \hline \text { (a) } \\ 1-20 \\ \hline \end{array}$ | (b) | (c) |  |  | F16 H0. | ITEM MO. OR KEFERENCE DESICHATAON |
| $\left\lvert\, \begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 476 \end{aligned}\right.$ | 3110-640-8166 | ...bearimg, ball, anmular: |  | EA | her | REP | HEF | Hep | HEF | Hep | HEP | ger | REF |  |  |
| P-F ${ }^{\text {P4TT7 }}$ | 3110-646-8166 | ...bearing, ball, andular: SAME AS A449 |  | ea | REP | fer | REF | fer | rep | ref | HEP | REF | REF |  |  |
| P-F-F | 3110-640-8166 | ... BEARING, BALL, ANNULAR: SAME AS A449 |  | EA | fer | REF | REF | REF | REP | FEF | REF | fef | fef |  |  |
| A479 | 3110-640-8166 | ...bearing, ball, ansurar: SAME AS A449 |  | EA | ref | REF | REF | FEF | refe | ref | REF | FEF | REF |  |  |
| P-F-F | 3110-640-8166 | ... BEARING, BALL, ANMULAR: SAME AS A449 |  | EA | ref | REF | REF | REF | REF | fer | REF | ref | REF |  |  |
| $\begin{aligned} & \text { X2-F } \\ & \text { A481 } \end{aligned}$ |  | ...GUTDE, STAGE: SAME AS A455 |  | EA | - |  |  |  |  |  |  |  |  | 3-8 | 47 |
| $\left.\right\|_{\text {A4-F }}$ |  | ...GJIDE, STAGE: <br> SAME AS A456 |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 44 |
| $\mathrm{X}_{2} \mathrm{X}_{2} \mathrm{~F} \mathrm{~F}$ | 5305-988-7602 | ...SCREW, CAP, SOCKET HEAD: SAME AS Al 38 |  | EA | 10 |  |  |  |  |  |  |  |  | 3-8 | 43 |
| $\mathrm{P}_{\text {P-7 }} \mathrm{P}_{484}$ | 5310-141-1795 | $\begin{aligned} & \text {...WASHER, FLAT: } \\ & \text { SAME AS AL5 } \end{aligned}$ |  | EA | 3 | fep | fep | FEF | REF | REF | REF | Ref | REF | 3-8 | 45 |
| $\begin{aligned} & \text { x2-F } \\ & \text { A485 } \end{aligned}$ |  | -. PETARIER, FEAR, MODIFIED: |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| A-P |  | .. mask mechatism subasserbiy : <br> c18469-1; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & P-F \\ & \text { A487 } \end{aligned}$ |  | ... BAR ASD ROLLER SUBASSEMBLY: <br> C18502-1; (02145) |  | EA | 1 | * | * | 1 | * | - | 1 | 8 | 3 |  |  |
|  |  | $\begin{aligned} & \text {....SHAFT, MASK: } \\ & \text { A18069; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P-P |  | … $\left.\begin{array}{c}\text { BAR SUBASSEABLIY } \\ \text { B18501; } \\ (02145)\end{array}\right)$. |  | EA | 1 | * | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| ${ }^{\text {X2-F }}$ |  | ..... BAR, LICHT MASK: B18066; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| X2-F |  | $\underset{\text { B18324; }}{\cdots(02145)}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P--F |  | $\underset{A 18073 ;}{\ldots} \begin{gathered} \text { PULLET, } \\ (02145) \end{gathered}$ |  | EA | 1 | - | 1 | 1 | - | 1 | 1 | 13 | 6 |  |  |
| P--F <br> A493 |  |  |  | EA | 1 | * | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| $\mathrm{P}^{\text {P-7 }}$ |  | ...SPRING, MOTOR: B17719; (02145) |  | EA | 1 | - | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| $\begin{aligned} & \text { x2-F } \\ & \mathrm{A}^{4} 95 \end{aligned}$ | 5310-994-6964 | ....NUT, PLATE, hexacon: N535650-83; (96906) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| X2-F | 5310-167-0878 | ...WASHER, LDCK, INTERHAL TOOTH: As936aio; (88044) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{aligned} & \text {.. HETATEER, REAR, MODTHED: } \\ & \text { SAME AS AL } 85 \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| A-F |  | .. Mask mechantsm subassembiy: C18469-2; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P-7-F |  | ...baf and roller subassembly: <br> C18502-2; (02145) |  | EA | $1$ | - | * | 1 | - | * | 1 | 8 | 3 |  |  |
| $\left\lvert\, \begin{aligned} & \text { x2-F } \\ & A 500 \end{aligned}\right.$ |  | $\cdots \underset{\text { SAME AS ALOB }}{\text {.... MASK }}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |

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

| $\begin{gathered} (1) \\ \operatorname{senR} \\ \operatorname{codez} \end{gathered}$ | (2) federal stock NUMBER | DEEFERENCE NUMBER \& MFR. CODE | $\underset{\text { CODE }}{\text { USABLE ON }}$ | $\begin{aligned} & \text { (4) } \\ & \text { UNIT } \\ & \text { OF } \\ & \text { MEAS } \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { (5) } \\ \text { OTY } \\ \text { INCIN } \\ \text { UNTT } \end{array}$ | $\begin{gathered} \text { (6) } \\ \text { 30-DAY DS MAINT } \\ \text { ALLOWANCE } \end{gathered}$ |  |  | $\begin{aligned} & \text { (7) } \\ & \text { 30-DAY GS MAINT } \\ & \text { ALLOWANCE } \end{aligned}$ |  |  |  | (9)OEPROMARTALPFER100EQUIP | $\begin{aligned} & \text { ILLUSTRATIONS } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | (a) | (b) ${ }^{\text {(b) }}$ |  |  |
|  |  |  |  |  |  | $\begin{aligned} & \text { (a) } \\ & 1-20 \end{aligned}$ | $\begin{gathered} (b) \\ 21-50 \\ \hline \end{gathered}$ | $\begin{gathered} (\mathrm{c}) \\ 51-100 \\ \hline \end{gathered}$ |  |  |  | $\begin{gathered} \text { (a) } \\ 1-20 \\ \hline \end{gathered}$ |  | $\begin{array}{r} \text { (b) } \\ 21-50 \\ \hline \end{array}$ | $\int_{51-100}$ | NO. | REFERENCE designation |
| $\left\lvert\, \begin{aligned} & \text { Pave } \\ & \hline A 500 \end{aligned}\right.$ |  | $\cdots$.... BAR SUBASSEMBLY: |  | EA | 1 | ReF | ref | REF | fef | REF | REF |  | ref | REF |  |  |
|  |  | ....LIGHT MASK: SAME AS AL91 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| ? 3 a 7 |  | . . . PULLEY, MODIFIED: SAME AS A492 |  | EA | 1 | REP | REF | REF | fef | fer | fef | fer | fer |  |  |
| $\left\lvert\, \begin{aligned} & ?-\bar{c} \\ & A S O L \end{aligned}\right.$ |  | ...SPRIMG, HELICAL, EXI _ISION: sAME AS A493 |  | EA | 1 | REF | REF | REF | REF | REF | REF | REF | REP |  |  |
| $\left\lvert\, \begin{aligned} & 3--7 \\ & 3505 \end{aligned}\right.$ |  |  |  | EA | 1 | Ref | feF | Ref | HEF | REF | REF | Ref | REF |  |  |
| $\left\lvert\, \begin{aligned} & x=-7 \\ & A 506 \end{aligned}\right.$ | 5310-994-6964 | $\underset{\text {....nUT, PLAIN, HEXAGON: AS AL95 }}{\text { SANE }}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & x_{2-7} \\ & 55007 \end{aligned}\right.$ | 5310-167-0878 | ...WASHER, TOCK, INTERNAL TOOTH: SANE AS AL96 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $A-F$ |  | $\begin{aligned} & \text {. ROLLER SUBASSEMBLY: } \\ & \text { C18470; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 11 |
| $\underset{\substack{\mathrm{x}_{\mathrm{i}}^{2-F} \\ i 505}}{ }$ |  | ...SHAFS, STRAIGHT: A166\%); $(02145)$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{P-7}{B=1}$ |  | ...screw, Machine: <br> A17387; (02145) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| - 258 |  | $\begin{aligned} & \cdots \text { RELEASE: } \\ & \text { AL7LOU; }(021.5) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| 72-7 $\mathbf{S 5 1 2}$ |  | ...spacer, sLeEve: <br> A1 $7.57,(02145)$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| ?-7 |  | ... ROLLER, FETRACT: <br> B16688-1; (02145) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| $\stackrel{\square}{\square-7}$ |  | .... FOLLEF, RETRACT: 216688-2; ( 01245 ) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| P-7 |  | -..rcller: ${ }_{\text {SANE }}^{\text {AS AL46 }}$ |  | EA | 1 | ref | HEF | Ref | rer | ref | neF | REF | REF |  |  |
|  |  |  |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| ¢8- |  | ...WASHEP, FLAT: <br> 200612; (02145) |  | sa | 1 |  |  |  |  |  |  |  |  |  |  |
| 3 | 3110-640-8166 | ... emarigg, ball, aniflaf: save as ally |  | EA | 6 | ReF | Ref | ref | Ref | feF | feF | feF | REF |  |  |
| - | 3110-640-8166 | ... beaping, ball, ammuar: <br> same as allog |  | EA | ref | REF | ref | ref | fef | feF | nef | REF | REF |  |  |
| $15 \approx$ | 3110-640-8166 | ...jehimg, baid, hovilaf: उne at atho |  | EA | REF | feF | PEF | ReF | FEF | ref | ref | REF | ReF |  |  |
| 52. | 3110-640-8166 | ...jenatig, iall, amthar: <br> SANE AS ALLG |  | EA | PEF | fer | ReF | PEF | mef | pef | feF | REF | ReF |  |  |
| $5 \overline{5 x}$ | 3110-640-8166 |  |  | EA | PEF | REF | Ref | pef | REP | ref | ref | fef | ref |  |  |
| $52$ | 3110-640-8166 | ...jestimg. छall. ammar: <br> save as atho |  | EA | per | ref | PrF | REF | fef | refe | Fef | 2EF | Ref |  |  |
| $\begin{aligned} & 2-5 \\ & 520 \end{aligned}$ |  | $\begin{aligned} & \text {...3:2IL: } \\ & \text { s01532; (786.3) } \end{aligned}$ |  | モA | 1 |  |  |  |  |  |  |  |  |  |  |
| Fies |  | ...sppitic, helical, coupherion: <br> : 003203 : (21830) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |

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


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

| $\begin{gathered} \overline{(1)} \\ \operatorname{cosen} \\ \cos \end{gathered}$ | (2) FEDERAI sтоск NUMBER | $\begin{gathered} (3) \\ \text { DESCRIPION } \end{gathered}$ |  | unit | $\left[\begin{array}{l} (5) \\ \text { GTY } \end{array}\right]$ |  | (6) AY DS M |  | 30-0A | $\begin{aligned} & (7) \\ & \\ & \hline \end{aligned}$ | mint | $\begin{aligned} & \hline(8) \\ & 1^{Y R} \end{aligned}$ | $\begin{gathered} \text { (9) } \\ \text { DEPPT } \\ \hline \text { PNANT } \end{gathered}$ |  | $\begin{aligned} & \text { (10) } \\ & \text { ILLUSIRATIONS } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | of |  | 30-01 | ALLOSAN |  | 30-0 | ALLOUAN | NC: | $\begin{aligned} & \text { ALLIPRER } \\ & 1000 \end{aligned}$ | Maint |  |  |
|  |  | \| PEFEREEMCE MUHBER \& MFR. CODE | $\underset{\text { CODE }}{\text { USABLE ON }}$ |  |  | $\begin{aligned} & \text { (a) } \\ & 1-20 \end{aligned}$ | $\begin{gathered} \text { (b) } \\ 21-50 \\ \hline \end{gathered}$ | (c) | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | $\begin{gathered} (0) \\ 21-50 \end{gathered}$ | $\Gamma_{51}(\mathrm{c})$ | EQuIP | $\left\{\begin{array}{c} \substack{1021 \\ 100 \\ \text { EQUIP } \\ \hline} \end{array}\right.$ | 116 N0. |  |
| $\text { - } \mathrm{F} 5$ |  | ... POLLER, RETRACT: SAME AS A446 |  | EA | 1 | REF | HEF | KEF | REF | HEF | REF | REF | KEF |  |  |
| $\begin{aligned} & 2-7 \\ & 552 \end{aligned}$ |  | $\begin{aligned} & \text {. SETSCREN: } \\ & \text { SAME AS ASI6 } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| 2-7 |  |  |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| 55 | 3110-640-8166 | $\cdots$... BEARING, BALL, ANMULAR: |  | EA | 6 | REF | REF | REF | ref | REF | fer | REF | REF |  |  |
| $-755$ | 3110-640-8166 | ... BEARIRG, BALL, AMNULAR: SANE AS ALL9 |  | EA | ReF | FeF | fef | Ref | REF | REF | fer | REF | REF |  |  |
| $\overline{556}$ | 3110-640-8166 | ... bearing, ball, antular: <br> SAME AS ALLI 9 |  | EA | REF | REF | ${ }_{\text {REF }}$ | FEF | REF | REF | fef | Ref | REF |  |  |
| 557 | 3110-640-8166 | ...baring, ball, anmular: <br> SANE AS A4L9 |  | EA | REF | HEF | hef | fef | KEF | REF | REF | REF | REF |  |  |
|  | 3110-640-8166 | ... bearing, ball, AnNular: <br> SAME AS A449 |  | EA | REF | Ref | REF | REF | fig | ref | fep | ref | REF |  |  |
| $\frac{-\mathrm{F}}{559}$ | 3110-640-8166 | ...bearing, ball, anmurar: SANE AS A449 |  | EA | REP | REF | REF | REF | feF | REF | ref | REFF | REF |  |  |
| $\begin{aligned} & 3-7 \\ & 560 \end{aligned}$ |  | $\begin{aligned} & \ldots \text { SHELL: } \\ & \text { SANE AS A524 } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $-\bar{F} 1$ |  | ... Sprisg, helical, compression: <br> SAEE AS A525 |  | EA | 1 | REF | FEF | REF | REF | REF | REF | REF | REF |  |  |
| F |  | . ROLLER SUBASSEMBLY: SAME AS ASC8 |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 11 |
| $\begin{aligned} & 1-7 \\ & i 63 \end{aligned}$ |  | ...shaft, straight: <br> SANE As A509 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\text { - } 764$ |  | .. SCREW, MACHINE: SANE AS A510 |  | EA | 1 | feF | REF | REF | feF | REF | REF | Ref | REF |  |  |
| $\begin{aligned} & 1-7 \\ & 165 \end{aligned}$ |  | ...release: <br> SAVE AS ASII |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $1-86$ |  | $\begin{aligned} & \text {...SPACER, SLEEVE: } \\ & \text { SANE AS ASI2 } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| -7 |  | … Roller, metract: SAME AS AS13 |  | EA | 1 | FEF | ref | feF | FEF | feF | REF | REF | fer |  |  |
| -8 |  | ... POLLER, RETRACT: SAME AS A514 |  | EA | 1 | REF | REF | REF | REF | ref | feF | HEF | REF |  |  |
| $\begin{aligned} & -\bar{F} \\ & 69 \end{aligned}$ |  | ... ROLLER: <br> SANE AS A4L6 |  | EA | 1 | ref | FEF | REF | ref | fef | PEF | fef | REF |  |  |
| $\overline{7}$ |  | SETSCPETH <br> SAVE AS A5:6 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & -\bar{F} \\ & T \mathcal{I} \end{aligned}$ |  | ...absEEF, FLAT: SANE AS Aj17 |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & -? \\ & ? \\ & ? \end{aligned}$ | 3110-640-8166 | ... EzARIHG, BALL, ANNULAR: <br> save aí ally |  | EA | 6 | REF | feF | REF | ref | REF | FEF | REF | REF |  |  |
| $\begin{aligned} & -7 \\ & i \end{aligned}$ | 3110-640-8166 | ....seaptigg, balla antu ar: SACE AS ithty |  | $=$ | REF | REF | fer | REF | fer | REF | REF | REF | REF |  |  |
| - 2 | 3110-640-8166 | ... JEASING, BALL. ANMTAR: save as allug |  | iA | REF | ReF | fef | Ref | REF | REF | REF | REF | REF |  |  |
| \% | 3110-640-8166 | ...jersist ball, antular: save his ALLG |  | EA | REF | HEF | REF | FEF | feF | ref | REF | REF | REF |  |  |

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

| $\begin{gathered} (1) \\ \text { SMR } \\ \operatorname{coDR} \end{gathered}$ | (2) FEDERAL STOCK NUMBER | $\begin{gathered} (3) \\ \text { DESCRIPTION } \end{gathered}$ | $\begin{gathered} \text { USABLE ON } \\ \text { CODE } \end{gathered}$ | (4)UWITOFMEAS | $\|$(5) <br> QTY <br> IMC <br> UNI <br> II | $\begin{gathered} (6) \\ \text { 30-DAY DS MAINT } \\ \text { ALLOUANCE } \end{gathered}$ |  |  | $\begin{aligned} & \text { (7) } \\ & \text { 30-DAY GS MIHT } \\ & \text { ALLOUANCE } \end{aligned}$ |  |  | (8)1 YRALis PER100EQUIPCNTECY | (9)REPOTFAINTALIPER100EQUIP | $\begin{gathered} (10) \\ \text { ILLUSTRATIONS } \\ \hline \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | (a) | ${ }^{\text {(b) }}$ |  |  |
|  |  |  |  |  |  | $\begin{array}{\|c\|} \hline(\mathrm{a}) \\ 1-20 \\ \hline \end{array}$ | $\begin{array}{\|c} \hline \text { (b) } \\ 21-50 \\ \hline \end{array}$ | $\begin{gathered} (\mathrm{c}) \\ 519100 \end{gathered}$ |  |  |  | $\begin{aligned} & \text { (a) } \\ & i-20 \end{aligned}$ |  | $\begin{gathered} (b) \\ 21-50 \\ \hline \end{gathered}$ | $\begin{gathered} (\mathrm{c}) \\ 5+100 \end{gathered}$ | F16, H0. | ITEA NO. OR REFERENCE DESIGMATION |
| P-F | 3110-640-8166 | ...bearing, ball, ammular: SAME AS A449 |  | EA | fLF | IEF | REF | REF | REF | REF | REF |  | HEF | FEF |  |  |
| $\left\lvert\, \begin{aligned} & \text { P-F } \\ & A 5 T 7 \end{aligned}\right.$ | 3110-640-8166 | ...bearing, hail, annular: SAME AS A449 |  | ea | REF | fef | ref | fer | ref | PeF | ref | fef | ref |  |  |
| $\left.\right\|_{\text {AST }} ^{\mathrm{x}-\mathrm{F}}$ |  | $\cdots{ }_{\text {SAME AS A5 }} \ldots$ |  | za | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{A 579} ^{P--F}$ |  | ...SPRING, HELICAL, COMPRESSION: same as ase5 |  | ea | 1 | feF | REF | ReF | REF | ref | ReF | ref | REF |  |  |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 580 \end{aligned}$ |  | ..LIGHT GRID ASSEMBLY: <br> C18473-1; (02145) |  | EA | 1 | * | * | 1 | * | * | 1 | 8 | 3 | 3-8 | 50 |
| $\begin{aligned} & \mathrm{x} 2-\mathrm{F} \\ & 0581 \end{aligned}$ | 5305-068-8431 | $\underset{\text { NSI6996-13; }}{\substack{\text { SCREN, } \\(96906)}}$ |  | EA | 5 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {P--F }} ^{\text {A582 }}$ |  | $\begin{aligned} & \text {. . LIGGT GRID ASSEMBLY: } \\ & \text { C18473-2; (O2145) } \end{aligned}$ |  | EA | 1 | * | * | 1 | - | - | 1 | 8 | 3 | 3-8 | 49 |
| $\left\lvert\, \begin{aligned} & x_{2}-\mathrm{F} \\ & \mathrm{~A} 583 \end{aligned}\right.$ | 5305-068-8431 | ..sCREW, CAP, SOCKET HEAD: SAME AS A581 |  | EA | 5 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{A 5 B 4} ^{A-F}$ |  | ..T-RaIl ASSEMbly quick melease: C18504; (02145) |  | ea | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{x} 2-\mathrm{F} \\ & \mathrm{~A} 585 \end{aligned}\right.$ |  | $\begin{aligned} & \text {...T-fAIL: } \\ & \text { C18350; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 6 |
| $\left.\right\|_{A 58-F} ^{x 2-F}$ |  | $\cdots \underset{\text { A1835 }}{ }=\text { T-RAL } ;(02145)$ |  | EA | 2 |  |  |  |  |  |  |  |  | 3-8 | 4 |
|  |  | $\underset{\text { SAFE AS }}{\ldots \text { RTBOB }}$ |  | EA | fig |  |  |  |  |  |  |  |  | 3-8 | 4 |
|  |  | ...PIT, SPRIKG: A18356: (02145) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 | 3-8 | 5 |
| $\left.\right\|_{A \leq 89} ^{x 2-p}$ |  | $\ldots{ }_{\text {AIE }} \quad \text {. } 355 \text {; (02145) }$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & x_{2590} \\ & \hline \end{aligned}$ |  |  |  | EA | 2 |  |  |  |  |  |  |  |  | 3-8 | 3 |
| ${ }^{x 2-F}$ |  | ...SI-3DOFF: <br> SAME AS ASOO |  | EA | REP |  |  |  |  |  |  |  |  | 3-8 | 3 |
| $\left.\right\|_{\text {P592 }} ^{P-F}$ |  | ...jprigg, :ELical, Exiension: <br> LE029C7; (eL830) |  | EA | 2 | 1 | 2 | 3 | 1 | 1 | 2 | 40 | 24 | 3-8 | 1 |
| $\left.\right\|_{A 50} ^{P-F}$ |  | ...spring, helical, emtersion: SAME AS A59? |  | ea | nef | REF | ref | pef | ref | fef | nef | Ief | fef | 3-8 | 1 |
| $\begin{array}{\|l\|l\|} x_{2}-F \\ A 594 \end{array}$ | 5305-543-5080 | $\begin{aligned} & \text {...SCREX MACHINE: } \\ & \text { NS } 35223-2 ;(96906) \end{aligned}$ |  | EA | 2 |  |  |  |  |  |  |  |  | 3-8 | 2 |
| $\left\lvert\, \begin{aligned} & A-F \\ & A 595 \end{aligned}\right.$ |  | ..T-Rail assembly quick felease: SAME AS A56b |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {A } 2 \text { SOF }}$ |  | $\begin{aligned} & \text {.-T-PAIL: } \\ & \text { SANE AS A5 } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 6 |
| $\begin{aligned} & \mathrm{x} 2-\mathrm{F} \\ & \text { A5s7 } \end{aligned}$ |  | .. KTOD, T-fAIL: SAME AS A586 |  | EA | 2 |  |  |  |  |  |  |  |  | 3-8 | 4 |
| $\left.\right\|_{\text {A598 }} ^{x 2-F}$ |  | ...knob, t-pail: SANE: AS A586 |  | EA | ref |  |  |  |  |  |  |  |  | 3-8 | 1 |
| $\left\lvert\, \begin{aligned} & P--F \\ & A S 99 \end{aligned}\right.$ |  |  |  | E: | 1 | REF | Ref | nef | RFF | REF | REF | Ref | fef | 3-8 | S |
| $x_{2}-F$ A600 |  | $\begin{aligned} & \text {...PTN: } \\ & \text { SANE AS ASug } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |

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


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

| $\begin{array}{\|c\|} \hline(1) \\ \operatorname{sengr} \\ \operatorname{cose} \end{array}$ | (2) FEDERAL stock NUMBER | OESCRIPTION |  | $\left[\left.\begin{array}{l} \text { (4) } \\ \text { Bit } \\ \text { OF } \\ \text { MES } \end{array} \right\rvert\,\right.$ |  | (6)30-DAY DS MAINTALLOWANE |  |  | $\begin{aligned} & \text { (7) } \\ & \text { 30-DAY GS WIITT } \\ & \text { ALLONANCE } \end{aligned}$ |  |  | (8)RRALMPER100EQUPPCNTGCY | (9)DEPOTMINTALHPLN100EQUIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | (a) |  | ${ }_{2}^{\text {(b) }}$ | $\begin{gathered} \text { (c) } \\ 51-1000 \end{gathered}$ | $\begin{gathered} (a) \\ 1-20 \\ \hline \end{gathered}$ | $\begin{aligned} & (\mathrm{b}) \\ & 21-50 . \end{aligned}$ | (c) |  |  |  |  |
|  | 5305-988-7601 | …STFEN, CAP, SOCKCT AEAD: SANE AS ACOB |  |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| (1702 | 5310-934-6964 | …nut, platm, hiexacon: SAME AS A495 |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & x 2-F \\ & A 703 \end{aligned}\right.$ | 5025-306-2657 | $\begin{aligned} & \text {... FASTWNER: } \\ & \text { SANE AS AG994 } \end{aligned}$ |  | ea | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {ATOL }} \begin{aligned} & \text { A-F } \end{aligned}$ |  | . . CACE ASSEMEIY: SANE AS AlG2 |  | En | 1 |  |  |  |  |  |  |  |  | 3-8 | 30 |
| P-F-F incos | 5305-637-7079 | . . SCREE, MACTINE: SAME as ands |  | EA | 1 | fer | feF | fer | ref | fer | fer | fef | fer | 3-8 | 27 |
| $\left\lvert\, \begin{aligned} & x_{\mathrm{C}}^{\mathrm{C}}-\mathrm{F} \\ & \mathrm{~A} 06 \end{aligned}\right.$ | 5310-167-0876 | .. WASuER, LOCN, ImTERNAL TOCTH: AN93646; (88044) |  | EA | 1 |  |  |  |  |  |  |  |  | 3.8 | 28 |
| $\left.\right\|_{\text {ATOT }} ^{M-D}$ |  | -. . EATCH: <br> SAME AS AlG3 |  | $\mathrm{F}_{4}$ | ref |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { P--F } \\ & \text { A708 } \end{aligned}\right.$ |  | ...SpRING, HELICAL, EXTYETSTON: SAME AS AI 64 |  | EA | 1 | $\mathrm{Rex}^{\mathrm{F}}$ | fef | ref | fef | ref | fgF | ReF | fig |  |  |
| A $\begin{aligned} & \text { A. } \\ & \text { A } 709\end{aligned}$ |  | .. CATCH ASSEMBLY: <br> SAME AS A162 |  | EA | 1 |  |  |  |  |  |  |  |  | 3-6 | 30 |
| $\left.\right\|_{R 110} ^{P-F}$ | 5305-637-7079 | $\begin{aligned} & \text {..SCREw, MACHINE: } \\ & \text { SANE AS A08S } \end{aligned}$ |  | EA | 1 | fer | ref | ref | $\mathrm{R}_{4} \mathrm{~F}$ | FEF | REF | REF | REF | 3-8 | 27 |
|  | 5310-167-0876 | .hasher, lock interial toorn: SAME AS AT06 |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 28 |
| $\left.\right\|_{A>12} ^{n \rightarrow D}$ |  | $\begin{aligned} & \text { … CATCH: } \\ & \text { SAME AS A163 } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P--F |  | ....SPRTNG, HELICAL, EXTENSION: SAME. AS Al64 |  | EA | 1 | HEF | fer | per | ref | Rur' | ref | ref | ref |  |  |
| $\underset{\text { AT14 }}{ }$ |  | $\begin{aligned} & \text {. SCREER , AIR INTAAK: } \\ & \text { B10373; (02145) } \end{aligned}$ |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { H-D } \\ & A 715 \end{aligned}$ |  | .. Screen, atr intake: SAME AS A714 |  | EA | ref |  |  |  |  |  |  |  |  |  |  |
| $\underset{A 716}{\substack{x-D}}$ |  | $\begin{aligned} & . . \text { GUIDE, LITHT MASK: } \\ & \text { B18301: }(0.2145) \end{aligned}$ |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\underset{\text { R717 }}{\text { K-D }}$ |  | .. GUIDE, LIGHT MLSK: same as a7le |  | EA | fer |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{A-\mathrm{F}-\mathrm{S}}{412 \mathrm{~S}}$ |  | . . WORM MECL B17572; (02145) |  | EA | i |  |  |  |  |  |  |  |  |  |  |
| $3-F$ | 5305-988-7603 | ..SEREW, CAP, SOCKE: HEAD: SAME AS :363 |  | EA | 2 | REF | REF | REF | REF | REF | ref | FEF | fEF |  |  |
| $\frac{L-D}{}$ |  | $\begin{aligned} & \text { …SHAFT, STPAIGHT: } \\ & \text { A1 } 6660 ;(02145) \end{aligned}$ |  | ea | 1 |  |  |  |  |  |  |  |  |  |  |
| -F | 3120-324-6424 | ... bearing, flanged: <br> SAME AS AOL 4 |  | EA | 4 | fer | REF | REF | REF | REF | REF | RF9 | REF |  |  |
| --F | 3120-324-6424 | $\begin{aligned} & \ldots \text { BEARING, FLANGED: } \\ & \text { SAME AS A014 } \end{aligned}$ |  | EA | rep | FEF | FEF | feF | REF | HEF | REF | FEF | REF |  |  |
| $-\mathrm{F}$ | 3120-324-6424 | ... bearimg, flanged; <br> SAME AS AO14 |  | EA | ref | EEF | REF | fef | fEF | REF | REF | REF | ref |  |  |
| $\overline{{ }_{2}^{24}}$ | 3120-324-6424 | ...DEARTMG, FIANGED: <br> SAME AS AOIk |  | EA | REF | FEF | REF | PEF | fef |  | REF | FEF | REF |  |  |
| $\cdots$ |  | $\underset{\text { B17338; }}{\text { BRACET: }}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |


| $\begin{gathered} (1) \\ \operatorname{SMR} \\ \operatorname{cooz} \end{gathered}$ |  | REFEKENCE MUNBER \& MFR. CODE | $\begin{gathered} \text { USABIE OH } \\ \text { COOE } \end{gathered}$ | $\begin{aligned} & (4) \\ & \text { UMIT } \\ & \text { OF } \\ & \text { NEAS } \end{aligned}$ | $\left[\begin{array}{l}(5) \\ \text { CTY } \\ \text { WCIM } \\ \text { UNIT }\end{array}\right]$ | $\begin{gathered} \text { (6) } \\ \text { 30-aAY DS MAINT } \\ \text { ALLOANCE } \end{gathered}$ |  |  | $\begin{gathered} (7) \\ \text { 30-DAY ©S marnt } \\ \text { ALLOHANCE } \end{gathered}$ |  |  |  | (9)apporMINTALYPEAEQUTPEQU |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} \hline(\mathrm{d} \\ 1-\mathrm{Kn} \\ \hline \end{gathered}$ | $\begin{gathered} (b) \\ 21-50 \\ \hline \end{gathered}$ | $\prod_{54}(\mathrm{c})$ | $\begin{gathered} (\mathrm{a} \\ 1=20 \\ \hline \end{gathered}$ | $\begin{gathered} (\mathrm{b}) \\ 21-50 \\ \hline \end{gathered}$ | $\prod_{5 H-00}^{(c)}$ |  |  |  |  |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} \neq 26 \end{aligned}$ |  | $\underset{\text { Al7570; }}{\substack{\text { COUPLING: } \\ \text { (02145) }}}$ |  | EA | 1 | - | 1 | 2 | - | 2 | 1 | 18 | 9 |  |  |
| $\left\lvert\, \begin{aligned} & x_{2-y}-{ }^{2} \\ & A 727 \end{aligned}\right.$ |  | ..SCREW, CAP, SOCKET HEAD: $4-40 \times 5-16 S H S S T:(70138)$ |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| ${ }_{(A 728}^{P-F}$ | 3020-640-4901 | $\underset{\text { HGTH; }}{\ldots \text { GIRAR }}(71041)$ |  | EA | 1 | * | * | 1 | - |  | 1 | 8 | 3 |  |  |
| $\left.\right\|_{\mathrm{P}-\mathrm{F}-\mathrm{F}}$ | 5315-853-0681 | $\begin{aligned} & \text {...PIN, SPRING: } \\ & \text { MSI6562-201; } \\ & \text { (96906) } \end{aligned}$ |  | EA | 1 | - | * | 1 | * | - | 1 | 8 | 3 |  |  |
| $\left.\right\|_{\text {P--F }} ^{\mathrm{P} 730}$ |  | .. miter gear: <br> A17410; (02145) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| $\left\lvert\, \begin{aligned} & P--F \\ & A \because 31 \end{aligned}\right.$ | 5315-823-8745 | ...PIN, SPRING: ${ }_{\text {NSIÓ562-215; }}(96906)$ |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| : $\mathrm{F}-\mathrm{F} 32$ | 5310-771-3861 | ...WASHER, FLAT: SAME AS A |  | EA | 1 | fef | REF | rer | ref | nef | REF | Ret | gre |  |  |
| $\left.\right\|_{\text {P--F }} ^{P-F}$ | 5310-141-1795 | $\begin{gathered} \text {.. WASHER, FLAT: } \\ \text { SAME AS AL5 } \end{gathered}$ |  | EA | 1 | REF | REF | ref | feF | REF | ReF | REF | nEF |  |  |
| ${ }_{\text {PT3 }}^{\text {P-F }}$ | 5315-058-9731 | ...PIN, SPRING: SANE AS A357 |  | EA | 1 | ref | ref | rep | ref | REF | Fef | ref | Ref |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 735 \end{aligned}\right.$ |  | $\begin{aligned} & \ldots \text {..GEAR, WORM: } \\ & \text { A17477; (02145) } \end{aligned}$ |  | EA | 1 | - | - | 1 | - | - | 1 | 8 | 3 |  |  |
| ${\underset{c}{N-D}}_{\substack{A T S 6}}$ |  | $\underset{\text { Al } 7336 \text {; }}{\text { SHART, }}$ (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\mathrm{A}-\mathrm{F} 37}$ |  | $\begin{aligned} & . \text { ROI ERR, FILM: } \\ & \text { B16i89-2; (02145) } \end{aligned}$ |  | EA | 2 | - | 1 | 1 | - | 1 | 1 | 13 | 6 |  |  |
| P-F |  | ..ROLIER, FILM: |  | EA | fer | neF | Ref | REF | meF | REF | mef | TEF | feF |  |  |
| P-F ${ }_{\text {P/ }}$ |  | -. ROLIER, FILM: |  | EA | 2 | REF | REF | ref | REF | sef | ref | ISF | REF |  |  |
| P--F |  |  |  | EA | ref | ref | fef | pef | fef | ref | ref | ref | PEF |  |  |
|  |  | $\begin{aligned} & \text {.. ROLLER, FTLM: } \\ & \text { B16689-5; (02145) } \end{aligned}$ |  | EA | 2 | - | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| P--F |  |  |  | EA | FEF | ref | EEF | ref | ref | ref | fer | ref | PEF |  |  |
| $\mathfrak{c}$ |  | ..GUTDE, FILM: |  | EA | 4 |  |  |  |  |  |  |  |  |  |  |
|  |  | . GUIDE, FILM: SAME AS A743 |  | EA | ref |  |  |  |  |  |  |  |  |  |  |
| ${\underset{c}{M-D}}_{\substack{A \\ \hline \\ \hline}}$ |  | $\begin{aligned} & . . \text { GUIDE, FILM: } \\ & \text { SAME AS A743 } \end{aligned}$ |  | EA | ref |  |  |  |  |  |  |  |  |  |  |
| $\int_{\substack{M-D \\ A 746}}$ |  | $\begin{aligned} & \text {. GUTDE, FTLM: } \\ & \text { SAME AS A743 } \end{aligned}$ |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\underset{A--F}{P-F}$ |  |  |  | EA | 4 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| P-F P |  | $\left.\right\|_{\text {SAME AS ATLT }}$ |  | EA | fSF | SEF | REF | ger | me\% | fer | REF | fef | fef |  |  |
| P--F |  | $\begin{aligned} & \text { CCHATN ASSEMBLY: } \\ & \text { SANE AS AT47 } \end{aligned}$ |  | EA | ref | REF | fef | REF | fef | fef | fer | fer | gef |  |  |
| $\text { P-F } \mathrm{F}$ |  | . CHAIN ASSEMBLY: SANE AS AT4T |  | ea | REF | REF | REF | REF | feF | ref | REF | PEF | ref |  |  |

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

|  | (2) federal STOCK NUMBER |  | $\underset{\text { COOE }}{\substack{\text { USALE }}}$ | $\substack{(4) \\ \text { unit } \\ \text { OF } \\ \text { reas }}$ |  | $\begin{aligned} & (6) \\ & \text { 30-DAY DS MAIMT } \\ & \text { ALLOWAHCE } \end{aligned}$ |  |  | $\begin{gathered} \text { (7) } \\ \text { 30-DAY } \\ \text { NLS OSAMCE } \\ \text { MAINT } \end{gathered}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} 197 \\ 1-20 \\ \hline \end{gathered}$ | ${ }_{21}^{(b)}$ | (c) | (a) $1-20$ | (b) | (c) |  |  |  |  |
| $1751$ |  |  |  | EA |  |  |  |  |  |  |  |  |  |  |  |
| 48 |  | . COVER, MhGAzINE CHAIN: SAME As atsl |  | Ea | ref |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { L70 } \\ & 1753 \end{aligned}$ |  | . .cover, magazine chain: SAME AS ATSI |  | Ea | figf |  |  |  |  |  |  |  |  |  |  |
| -175 |  | .. cover, magacine main: SANE AS A751 |  | EA | ReF |  |  |  |  |  |  |  |  |  |  |
| - 75 |  | -. LABEL: ${ }_{\text {B17482; }}$ (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\leftarrow}{\boxed{L} 5}$ |  | .. COVER, FILTER: B18352; (02245) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| :2-9 | 5340-839-9050 |  |  | ea | 4 |  |  |  |  |  |  |  |  |  |  |
| $\sigma_{8}^{F}$ |  | . BRACKET ASSEMBLY: B18553-1; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{-759}{759}$ | 5305-988-7601 | . SCREN, CAP, SOCKIT HEAD: SANE AS AZO8 |  | ea | 2 | Rer | fep | REF | Ref | ref | fef | Prer | figs |  |  |
|  |  | ... BRACKET, PTILLEY: A18280; (02145) |  | EA | $\lambda$ |  |  |  |  |  |  |  |  |  |  |
| $7{ }_{761}$ |  | ....PULIEY, NYLON: |  | ea | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| -762 |  | ... FASTENER, PISHRUT: <br> PSO62032; (77122) |  | EA | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| - 76 | 5315-844-5644 | ...pin, Spring: |  | EA | 1 | ReF | ref | ref | ref | fer | Ref | fef | fEF |  |  |
| 76 |  | $\begin{aligned} & \text { BRACKEF ASSEMBLY: } \\ & \text { SAME AS A75i } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $-\bar{F}$ | 5305-988-7601 | . SCREw, CAP, SOCKET HEAD: SAME AS ACOB |  | EA | 2 | fer | fef | ref | fef | REF | Ref | ref | FEF |  |  |
| - |  |  |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| -7 |  |  |  | EA | 1 | REF | ref | ref | fef | ref | feF | fef | feF |  |  |
| - 76 |  | ... FASTENER, PUSHNIT: SAME AS A762 |  | EA | 1 | HEF | mef | Ref | fef | REF | ficf | REF | Ref |  |  |
| $-\mathbf{F}$ | 5315-844-5644 | ...PIN, SPRIRG: SAME AS A017 |  | EA | 1 | ref | REF | ref | feF | ref | FteF | ref | reF |  |  |
| - 7 |  | .- BRACKET ASSEMBLY: B18553-2; (02145) |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{-F}{71}$ | 5305-988-7601 | .. SCREW, CAP, SOCKET HEAD: same as azob |  | EA | 2 | mef | ref | REF | fef | fef | FEF | Ref | ReF |  |  |
| -D |  | ... BRACKET, PULLEY: SAME AS A760 |  | za | 1 |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\text { - }}{7}$ |  | $\begin{gathered} \text { … PULLEY, NYION: } \\ \text { SAME AS A761 } \end{gathered}$ |  | EA | 1 | REF | REF | ref | Ref | ref | ref | Ref | fef |  |  |
| $\underset{7}{-F}$ |  | ... FASTERER, pushnut: SAME AS A762 |  | EA | 1 | REF | Ref | REF | ReF | Ref | REF | fef | ref |  |  |
| $\stackrel{-F}{75}$ | 5315-844-5644 | $\begin{gathered} \text { …PIN, SPRING: } \\ \text { SAME AS AOLI } \end{gathered}$ |  | EA | 1 | ref | ref | REF | Ref | REF | REF | ref | ref |  |  |


| $\begin{gathered} \begin{array}{c} 11 \\ \text { SNR } \\ \text { CNORE } \end{array} \end{gathered}$ | (2) FEDERAL STOCK NUMBER |  |  | $\begin{aligned} & \text { (4) } \\ & \text { UWIT } \\ & \text { OF } \\ & \text { HEAS } \end{aligned}$ |  | $\left[\begin{array}{c} \text { (6) } \\ \text { 30-DAY DS HAIMT } \\ \text { ALLOUAHCE } \end{array}\right.$ |  |  | $\begin{aligned} & \text { (7) } \\ & \text { 30-dAY ©S MAINT } \\ & \text { ALLOWAHCE } \end{aligned}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | (a) |  | (b) ${ }^{(b)}$ | (c) | (a) | (b) ${ }_{2}$ | (ic) |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { A-F } \\ & \text { AT76 } \end{aligned}\right.$ |  | - Frack hssenty: SAME as a7to |  |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \text { AT7T } \end{aligned}\right.$ | 5305-988-7601 | ..SCREM, CAP, SOCKET HEAD: SANE AS AZO8 |  | EA | 2 | Ref | fer | REF | fisf | ReF | feF | REF | REF |  |  |
|  |  | $\begin{gathered} \text { …BRACKET, PULHEY: } \\ \text { SNE AS A760 } \end{gathered}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| P-7-F |  |  |  | EA | 1 | Hef | REF | EEF | FEEF | ref | fer | feF | FEF |  |  |
| ${ }_{\text {ATB }}^{\text {P-F }}$ |  |  |  | EA | 1 | REF | gef | fiEP | REF | REF | fef | REF | gef |  |  |
| P-F ${ }_{\text {A781 }}$ | 5315-844-5644 | $\begin{aligned} & \text {...FIN, SPRISG: } \\ & \text { SAEE AS AOIT } \end{aligned}$ |  | EA | 1 | fef | EEF | REF | FEF | REF | fer | REF | feF |  |  |
| M-D ${ }_{\text {M }}$ |  | $\begin{aligned} & \text {. BRACEET: } \\ & \text { B18110; }(02145) \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{A 78} ^{\mu} A-D$ |  | $\begin{aligned} & \text {..LABEL: } \\ & \text { A11471-1; (02145) } \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| AT84 |  | -.SPACER: |  | EA | 8 |  |  |  |  |  |  |  |  |  |  |
| $\int_{A 785}^{M-D}$ |  | $\begin{aligned} & \text {..SPACER: } \\ & \text { SANE AS AT84 } \end{aligned}$ |  | EA | ref |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & M-D \\ & A 786 \end{aligned}\right.$ |  | $\begin{aligned} & \text {. SPACER: } \\ & \text { SAME AS A784 } \end{aligned}$ |  | ea | ref |  |  |  |  |  |  |  |  |  |  |
| $\mathrm{M}_{\mathrm{A} 787}^{\mathrm{M}-\mathrm{D}}$ |  | . SPACER: SANE AS A784 |  | Eh | ref |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{A 788} ^{M-D}$ |  | $\begin{aligned} & \text {. SPACER: } \\ & \text { SAME AS A784 } \end{aligned}$ |  | EA | ref |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{array}{\|c\|c\|} A-D \\ A 789 \end{array}\right.$ |  | $\begin{aligned} & \text {. .SPACER: } \\ & \text { SAME AS ATBL } \end{aligned}$ |  | EA | feF |  |  |  |  |  |  |  |  |  |  |
| $\boldsymbol{N}_{\mathrm{A}-\mathrm{D} 9 \mathrm{D}}$ |  | -. SPACER: ${ }_{\text {SAIE AS }}$ |  | EA | kef |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {AT91 }} ^{\text {Min }}$ |  |  |  | Ea | REF |  |  |  |  |  |  |  |  |  |  |
| P-F |  | . .GEAR, MITER: SAME AS ATJO |  | EA | 3 | REF | fef | REF | REF | REF | fer | REF | feF |  |  |
| ${ }^{\text {P--F }}$ A793 |  | . GEAR, MITER: SAME AS A730 |  | EA | Ref | ref | Ref | ref | fef | ref | fer | REF | gef |  |  |
| P--F |  | . .GEAR, MITER: SAME AS AT30 |  | EA | fer | fer | Ref | Ref | ficf | ReF | fer | REF | fef |  |  |
| $\left\lvert\, \begin{gathered} \mathrm{M}-\mathrm{D} \\ \mathrm{~A} 795 \end{gathered}\right.$ |  | $\begin{aligned} & \text {..BLDCK: } \\ & \text { A16669; (02145) } \end{aligned}$ |  | EA | 3 |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {AT96 }} ^{\mathrm{M}-\mathrm{D}}$ |  | .. вLоск: <br> SAME AS A795 |  | EA | ReF |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \mathrm{N}-\mathrm{D} \\ \text { A797 } \end{gathered}$ |  | .. Biock: sAME AS AT95 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {A798 }} ^{\mu-D}$ |  | $\begin{aligned} & \text {. STRIKE, T-RAIL: } \\ & \text { SANE AS A659 } \end{aligned}$ |  | EA | 4 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { M--D } \\ & \text { A799 } \end{aligned}\right.$ |  | $\begin{aligned} & \text {. STRTKE, T-RAIL: } \\ & \text { SAME AS RG59 } \end{aligned}$ |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{gathered} M-D \\ A B 00 \end{gathered}\right.$ |  | $\begin{aligned} & \text {. STRIKE, T-RALL: } \\ & \text { SAME AS AG59 } \end{aligned}$ |  | EA | REF |  |  |  |  |  |  |  |  |  |  |

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


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



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

| $\begin{gathered} 7!1 \\ \sin 2 \\ \operatorname{cosec} \end{gathered}$ | (2) FEDERAL STOCK NUMBER | $\operatorname{seccaibtiow}_{(3)}$ |  | (4) | $\left[\begin{array}{l} (5) \\ 9 \pi y \end{array}\right]$ |  | (6) ar DS | haint |  | $\begin{aligned} & \text { ar } \\ & \text { ar } \end{aligned}$ | malnt | $\prod_{1}^{(8)}$ | $\int \begin{gathered} (9) \\ \text { OPPOT } \end{gathered}$ |  | $\begin{gathered} (10) \\ \text { 1husiRAIIgas } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | ALLOUA |  |  |  |  |  | maint |  |  |
|  |  |  | $\underset{\text { CODE }}{\substack{\text { USABLE } \\ \text { Cow }}}$ |  |  | $\begin{gathered} \hline(\mathrm{a} \mid \\ 1-20 \end{gathered}$ | $\begin{gathered} (\mathrm{b}) \\ 21.50 \\ \hline \end{gathered}$ | $\begin{gathered} (\mathrm{c}) \\ 51-100 \end{gathered}$ | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | $\begin{gathered} (b) \\ 21.50 \end{gathered}$ | (c) | $\left\{\begin{array}{l} \text { EquIp } \\ \text { chitecy } \end{array}\right.$ | $\begin{gathered} \text { Par } \\ 100 \\ \text { EqUIP } \end{gathered}$ | F16. |  |
| $\stackrel{P}{\text { P }}$ | 5310-141-1795 | . WAGHER, FLAT: SANE AS AL58 |  | za | 2 | ${ }_{\text {REP }}$ | RgF | REP | REF | Her | REF | REP | Req |  |  |
| $1852$ |  | ..P1R, QUTCK-PELEASE: BLS5B14SL10; (84256) |  | Ea | 2 | - | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| $\stackrel{-65}{165}$ | 5315-823-8742 | .. PITA. ETRING: MS16562-252; (90900) |  | EA | 2 | * | 1 | 1 | - | 1 | 1 | 13 | 6 | 3-8 | 51 |
| (12-7 | 5305-983-7447 | - sciase cap, sucker imal: : (ब16998-7シ; (96906) |  | zA | 4 |  |  |  |  |  |  |  |  | 3-8 | 54 |
| $\begin{aligned} & 12-\mathrm{F} \\ & 8.85 \% \end{aligned}$ |  | - SCREN. CAP, SOCTET HEAD: SAEE AS A066 |  | Ea | 4 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 2-F } \\ & 1: 256 \end{aligned}$ | 5305-984-6191 | . . SCREM, MACHIER: M535206-243: : 96906 ) |  | EA | 22 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 2-7 \\ & 857 \end{aligned}$ | 5305-990-6381 | ..SCREN, CAP, SOCXET READ: SAME AS AOZO |  | Ea | 4 |  |  |  |  |  |  |  |  |  |  |
| -858 | 5305-988-7605 | ..SCREN, CAP, SOCKEC READ: SAN AS A056 |  | ER | 6 | ref | fEF | REF | fep | fep | REP | REP | RES |  |  |
| -789 | 5310-771-3861 | .. HASHER, FLAT: SAVE AS ALCL |  | 8 in | 3 | REF | ng\% | REF | nef | REF | fer | HEP | figi |  |  |
| $\text { -F } \mathrm{F} 0$ | 5305-959-0382 | ..SCREW, CAP, SOCEET IEAD: same as az32 |  | 8 A | 3 | REF | REF | REF | rep | fep | REP | REF | REP |  |  |
| $\begin{aligned} & 2-F 1 \\ & 861 \end{aligned}$ | 5305-622-1509 | . SCEETM, MACBIER: <br> ME3522i-63; (96906) |  | EA | 4 |  |  |  |  |  |  |  |  |  |  |
| $\overrightarrow{36}$ | 5305-990-6381 | ..SCREN, CAP, SOCKET READ: SANE AS AO20 |  | EA | 6 | HeF | REF | fer | 3 SF | REF | rep | RIEP | REP |  |  |
| $-\mathbf{F} 63$ | 5310-595-6211 | .. WASHER, FLAT: SANE AS AO62 |  | ER | 12 | REF | HEF | REEF | ref | REF | feF | REF | fer |  |  |
| $364$ | 5310-934-9739 | . KUN, PLATH, REXACON: v335649-242; (96906) |  | EA | 6 |  |  |  |  |  |  |  |  |  |  |
| $-\mathrm{p}$ | 5305-959-1082 | .. SCNEW, CAP, SOCMET HEAD. <br> SAVE AS A019 |  | EA | 4 | REF | REF | fer | ref | REF | fer | FEF | fer |  |  |
| $\begin{aligned} & 160 \mathrm{P} \\ & \hline \end{aligned}$ | 5340-420-7606 | .CLAMP, LOOP: |  | EA | 4 |  |  |  |  |  |  |  |  |  |  |
| $6 \mathrm{~F}$ | 5340-420-7606 | $\begin{aligned} & \text {.CLAMP, LOOP: } \\ & \text { SANE AS AB6G } \end{aligned}$ |  | En | kEF |  |  |  |  |  |  |  |  |  |  |
| $-\bar{F}$ | 5340-420-7606 | $\begin{aligned} & \text {.CTMAP, TOCP: } \\ & \text { SAME AS AB56 } \end{aligned}$ |  | EA | HEF |  |  |  |  |  |  |  |  |  |  |
| $-7$ | 15340-420-7606 | . CLANP, LONP: SANE AS A856 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| 78 |  | .. MOURT, hestlitart: <br> (TR2-35; 176005) |  | EA | $\therefore$ | - | 1 | 1 | - | 1 | 1 | 13 | 6 | 3-8 | 56 |
| $\stackrel{\mathrm{F}}{\mathrm{~F}}$ |  | .NDUKT, RESILIEEAT: <br> SAEE AS A870 |  | ea | FEF | REF | REF | REF | FEF | ReF | REF | REF | REF | 3-8 | 56 |
| $\begin{gathered} -\mathrm{F} \\ \mathrm{i} \end{gathered}$ | '5340-119-4791 | ..MGUNT, RRSTLIERT: UTZ-50; $(76005)$ |  | ea | 2 | - | 1 | 1 | - | 1 | 1 | 13 | 6 | 3-8 | 57 |
| 73 | 5340-119-4791 | ..MOUNT, RESILIENT: SAVE AS A6T2 |  | EA | feF | REF | REF | REF | REF | REF | REF | REF | REF | 3-8 | 57 |
| - ${ }_{\text {- }}$ |  | $\begin{aligned} & \text {. KHOB, SPIANER: } \\ & \text { SAME AS } A 175 \end{aligned}$ |  | EA | 1 |  |  |  |  |  |  |  |  | 3-8 | 26 |
| ir |  | $\begin{aligned} & \text {. BALL, JOLMT: } \\ & \text { SIO3: } \\ & (78643) \end{aligned}$ |  | EA | 8 | 1 | 2 | 3 | 1 | 1 | 1 | 40 | 24 | 3-8 | 13 |

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

| (1)SMRCORE | (2) <br> FEDERAL STOCK NUMBER |  | USABLE ON CODE | (4)unItOfNaS | $\left[\begin{array}{c}(5) \\ \text { OTY } \\ \text { INC It } \\ \text { UNIT }\end{array}\right]$ | (6)30-DAY DS MAIMTALL MAMCE |  |  | (7) <br> 30-DAY GS MAIKT ALLCMACE |  |  | (8)1 YaMLy per100EquIPchtecy | (9)0epotHAINTALYPE100EQUIP | $\begin{aligned} & \text { (10) } \\ & \text { IhhusigAIIOAS } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} (\mathrm{a}) \\ 1-20 \end{gathered}$ | $\begin{gathered} \text { (b) } \\ 21-50 \end{gathered}$ |  | $\begin{gathered} \text { (a) } \\ 1-20 \end{gathered}$ | $\int_{21-50}^{(t)}$ | $\begin{gathered} \text { (c) } \\ 5 \rightarrow 100 \end{gathered}$ |  |  | $\begin{aligned} & 516 \\ & 60 . \end{aligned}$ | $\begin{aligned} & \text { ITEH HO OR } \\ & \text { OEFERERCE } \\ & \text { OESIGMTIO } \end{aligned}$ |
| $\begin{aligned} & P--F \\ & A 876 \end{aligned}$ |  | ..BALL JOIFT: <br> SAVE AS AB75 |  | EA | FEF | REF | REF | REF | PEF | REF | KEF | feF | REF | 3-8 | 13 |
| $\begin{aligned} & \mathrm{P}--\mathrm{F} \\ & \mathrm{AB} 77 \end{aligned}$ |  | -. BALL JOIET: <br> SAVE AS ART5 |  | EA | FEF | REF | REF | FEF | REF | REF | EXP | REF | REF | 3-8 | 13 |
| $\begin{aligned} & \text { P-F } \\ & A 878 \end{aligned}$ |  | .. BALL JOINT: <br> SAlyE AS ABTS |  | EA | FRY | REP | REF | REF | REF | REF | REF | PEF | REF | 3-8 | 13 |
| $\begin{aligned} & \text { P-F } \\ & \text { A879 } \end{aligned}$ |  | .. BALL JOINT: <br> SANE AS AB75 |  | EA | LIEF | FEF | REF | RE ${ }^{\text {P }}$ | REF | FEP | REF | FEP | REF | 3-8 | 13 |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 880 \end{aligned}$ |  | .. ball Joist: <br> SAEE AS AB75 |  | EA | PEF | REF | REF | REF | FEF | REF | Fis ${ }^{\text {P }}$ | REF | REF | 3-8 | 13 |
| P--F |  | .. BALL JOINT: SAME AS AB75 |  | EA | REF | fef | REF | REF | REF | REF | PEF | REF | 72F | 3-8 | 13 |
| $\left\lvert\, \begin{aligned} & P--F \\ & \text { A8B2 } \end{aligned}\right.$ |  | ..BALL JOIET: <br> SAME AS AB75 |  | EA | HEF | HEF | REP | REF | REF | PEF | REF | REF | fef | 3-8 | 38 |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{AB83} \end{aligned}$ | 5325-766-7026 | . . GROMET, PLASTIC: G5TEE3; (03296) |  | Ef. | 4 | 1 | 1 | 2 | 1 | 1 | 1 | 27 | 12 |  |  |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{AB84} \end{aligned}$ | 5325-766-7026 | ..GPOMET, PLASTIC: sAVE AS A883 |  | EA | HEF | fer | feF | feF | REF | ref | REF | REF | REF |  |  |
| $\left\lvert\, \begin{aligned} & \text { P-F } \\ & \text { A885 } \end{aligned}\right.$ | 5325-766-7026 | $\begin{aligned} & \text {. GROMAET PLASTIC: } \\ & \text { SAME AS A883 } \end{aligned}$ |  | EA | HEF | REF | FI | REF | REF | REP | ref | REF | PIEF |  |  |
| $\begin{aligned} & \text { P--F } \\ & \text { A886 } \end{aligned}$ | 5325-766-7026 | ..GROMET, PLASTIC: SNE AS AR83 |  | EA | REF | REP | REF | REF | REF | REF | REF | REF | REF |  |  |
| $\begin{aligned} & X_{2}-F \\ & A 887 \end{aligned}$ | 5325-721-7367 | . GROMAET, RUBBER: US 35490-4; (96906) |  | EA | 2 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{X} 2-\mathrm{F} \\ & \mathrm{AB88} \end{aligned}$ | 5325-721-7367 | . GROMAET, RUBBER: $\text { SAME AS } A 887$ |  | EA | feF |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { P-F } \\ & \text { A889 } \end{aligned}\right.$ | 3120-662-6787 | $\begin{aligned} & \text {.BZARIEG, SLEEVE: } \\ & \text { FBL6-3; }(71041) \end{aligned}$ |  | EA | 3 | - | 1 | 2 | - | 1 | 1 | 18 | 9 |  |  |
| $\left\lvert\, \begin{aligned} & \text { P-F } \\ & \text { A890 } \end{aligned}\right.$ | 3120-662-6787 | .. BEAPIEG, SLEEVE: SAME AS A889 |  | EA | FEF | HEF | FEF | ref | REF | FEF | REF | HEF | RET |  |  |
| $\left\{\begin{array}{l} P-F \\ A 891 \end{array}\right.$ | 3120-662-6787 | .. BEARING, SLEEVE: SAME AS A889 |  | EA | PEF | REF | REF | REF | REF | HEF | HEF | HEF | HEF |  |  |
| P--F | 3110-640-8166 | .. bearing, bail, antular: SAME AS A449 |  | EA | 12 | REF | feF | REF | REF | REF | REF | REF | REF |  |  |
| ${ }_{\left(\begin{array}{l} \text { P-F } \\ \text { A893 } \end{array}\right.}$ | 3110-640-8166 | . . BEARTNG, BALL, ARHLTAR: SANE AS A449 |  | EA | REF | REF | REF | REF | REF | HEF | REF | REF | REF |  |  |
| $\begin{aligned} & P-F \\ & A 894 \end{aligned}$ | 3110-640-8166 | . BEARIFG, BALI, ABMULAR: SAME AS Allig |  | EA | REF | REF | REF | REF | REF | REF | REF | REF | ref |  |  |
| $\begin{aligned} & \mathrm{P}-\mathrm{F} \\ & \mathrm{~A} 895 \end{aligned}$ | 3110-640-8166 | .. BEARING, BAII, ANHULAR: SAME AS AlLG |  | EA | REF | REF | FEF | REF | REF | ref | REF | REF | REF |  |  |
|  | 3110-640-8166 | . . BEARING, BALL, ANINULAR: SAME AS ALL9 |  | EA | REF | REF | REF | REF | REF | RE. | REF | REF | REF |  |  |
| $\begin{aligned} & \text { P-F } \\ & \text { A897 } \end{aligned}$ | 3110-640-8166 | . . BEARING, BALL, ANHULAA: SAME AS Allug |  | EA | REF | REF | REF | REF | REF | REF | REF | REF | REF |  |  |
| P-F ${ }_{\text {AB98 }}$ | 3110-640-8166 | .. BEARING, BALL, ARNULAR: SAME AS Allig |  | EA | REF | REF | RFF | REF | REF | REF | REF | REF | REF |  |  |
| P--F | 3110-640-8166 | .. BEARING, BALL, AHTULAR: SAME AS Ahly |  | EA | REF | REF | PEF | REF | PEF | REF | REF | meF | REF |  |  |
| ${ }_{\text {P_-F }}$ | 3110-640-8166 | .. BEARING, BALL, ANNULAR: SANE AS A4L9 |  | EA | REF | REF | FEF | PEF | PEF | REF | REF | REF | REF |  |  |

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

| $\begin{aligned} & \text { (1) } \\ & \text { cubs } \end{aligned}$ | $\begin{gathered} \text { (2) } \\ \text { FEDERAL } \\ \text { STOCK } \\ \text { NUMBER } \end{gathered}$ |  | $\begin{array}{\|l} (4) \\ \text { Uult } \\ \text { OF } \\ \text { OEAS } \end{array}$ | $\begin{array}{\|l\|} \hline(5) \\ \text { oTY } \\ \text { INCIN } \\ \text { UaIT } \end{array}$ | $\begin{gathered} (6) \\ \text { 30-DAY OS MaIMT } \\ \text { ALLCHAMCE } \end{gathered}$ |  |  | $\begin{gathered} \text { (7) } \\ \text { 30-day } 65 \text { MAINT } \\ \text { ALLONACE } \end{gathered}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $\begin{aligned} & (\mathrm{a}) \\ & 1=20 \\ & \hline \end{aligned}$ | $\begin{gathered} \text { (b) } \\ 21-50 \\ \hline \end{gathered}$ | $\begin{gathered} \text { (c) } \\ 5 \mathrm{~L}-100 \end{gathered}$ | $\begin{array}{\|c\|} \hline(\mathrm{a}) \\ 1-20 \\ \hline \end{array}$ | $\begin{gathered} (\mathrm{b}) \\ 21-50 \end{gathered}$ | $\begin{aligned} & (c) \\ & 0.5100 \end{aligned}$ |  |  |  |  |
| $\stackrel{\text { P--F }}{4901}$ | 3110-640-8166 | .. gearing, ball, ammelar: SAME AS 8449 | EA | Sef | Ref | REF | fef | fer | REF | REP | REF | fer |  |  |
|  | 3110-640-8166 | . . gEhFING, EALL, ammuAR: SAME AS A449 | EA | Rep | REF | REF | REF | ref | REF | fer | REF | REF |  |  |
| $\stackrel{-7}{1903}$ | 3110-640-8166 | ..ezaprgc, eall., ammlar: SAME AS A4LT | ea | FEP | REP | REP | Ref | rep | REF | Res | feF | esp |  |  |
| $\cdots$ | 3120-662-0754 | ..egapinc. thrust: <br> TB410: (7.041) | EA | 2 | * | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| $\cdots$ | 3120-662-0754 | .. bearing , thrust: SAME AS AOOL | EA | Hep | ref | HeF | pef | REF | fef | ref | REF | REF |  |  |
| $\cdots$ | 5315-045-2561 | .. TEY, wCODRUFF: same as ajuo | EA | 4 | Ref | REF | REF | ref | feF | fer | REF | feF |  |  |
| $-\mathrm{F}$ | 5315-045-2561 | .. KEY, WOODRUFF: SAME AS A370 | EA | Ref | feF | REF | REF | REF | REF | fef | [ PrF' | PEF |  |  |
| -7\% | 5315-045-2561 | . KEY. WOCDRUFF: SANE AS A370 | EA | ref | res | REF | ReF | HEF | REF | fef | fer | REF |  |  |
| $\stackrel{-8}{709}$ | 5315-045-2561 | .. KEy, woodruff: <br> SAME AS A370 | EA | REF | REF | REF | REF | REF | REF | Ref | REF | fer |  |  |
| -F | 3120-723-6758 | .. bearimg, sleEve: FF6 36-2; (70901) | EA | 2 | * | 1 | 1 | * | 1 | 1 | 13 | 6 |  |  |
| ${ }^{-7}$ | 3120-723-6758 | .. gearing, slesve: <br> SANE AS A910 | EA | feF | REF | Ref | REF | REF | REF | mef | REF | REF |  |  |
| -F | 5315-240-1014 | ..PIN, SPhing: पS16562-5; (96906) | EA | 4 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & -F \\ & 13 \end{aligned}$ | 5975-273-0788 | . STRATI RELIEF; SR6P1; (28520) | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} -D \\ 14 \end{gathered}$ |  | $\begin{aligned} & \text {. POWER CORD: } \\ & 174125 ;(16428) \end{aligned}$ | EA | 1 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & -\mathrm{F} \\ & \stackrel{15}{ } \end{aligned}$ |  | $\left\lvert\, \begin{aligned} & \text {.CLAMP, LDOP: } \\ & \text { MS25281-6; }(96906) \end{aligned}\right.$ | ea | 3 |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\cdot}{\cdot}$ |  | $\begin{aligned} & \text {. CLAMP, LOOP: } \\ & \text { SAME AS A915 } \end{aligned}$ | EA | fef |  |  |  |  |  |  |  |  |  |  |
| $7$ |  | .. CLAMP, LOOP: same as agls | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{F}{8}$ | 6740-464-9198 | ..DIMMER ASSEMBLY: B16221: $(02145)$ | EA | 1 | * | - | 1 | * | - | 1 | 8 | ; |  |  |
| $\begin{aligned} & \mathrm{F} \\ & \mathrm{~g} \end{aligned}$ |  | $\underset{\text { B15432; }}{\text { FAN: }}$ | EA | 1 | - | * | 1 | - | - | 1 | 8 | 3 |  |  |
| $\begin{aligned} & \text { F } \\ & 0 \end{aligned}$ |  | . CAPACITOR, FIXED, PAPER, DIELECTAIC: C28OAE: (73445) | EA | 1 | * | * | 1 | * | * | 1 | 8 | 3 |  |  |
| \% | 5910-241-9589 | . CAPACITOR, FIKED, PAPEP, DIELECTRIC: save as algo | A | 1 | PEF | REF | REF | Ref | PFF | REF | pef | REF |  |  |
| ; |  | ..DIDDE bFIDGE aSSEMBLY: <br> ICRDGA; ( 81348 ) |  | 1 | - | * | 1 | * | - | 1 | 8 | 3 |  |  |
| , |  | -. FUSE, CAPTHIDCE: $\text { उACA: }(71400)$ | Ei | 1 | 1 | $?$ | * | 1 | 1 | 1 | 40 | 25 |  |  |
|  |  | .. FUSE, captridge: <br> 3AG3: (T1400) | EA | 1 | 3 | 7 | . 3 | i | ? | 3 | 164 | $12 \%$ |  |  |
|  | 5915-081-4831 |  |  | ? | * | 1 | . | * | 1 | 1 | 13 | $t$ |  |  |

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

| $\begin{gathered} (1) \\ \sin \\ \operatorname{cosex} \end{gathered}$ | (2) <br> FEDERAL STOCK NUMBER | (3) |  | $\begin{aligned} & \text { (4) } \\ & \text { UNIT } \\ & \text { Of } \\ & \text { UEAS } \end{aligned}$ | (5)QTY$1 \% C$ IVUNIT | (6) <br> 30-DAY DS MAIKT ALLOAMACE |  |  | $\begin{aligned} & \text { (7) } \\ & \text { 30-DAY GS MAINT } \\ & \text { ALLOUAMCE } \end{aligned}$ |  |  | $\begin{array}{\|c\|} \hline(8) \\ 1 \\ \text { YR } \\ \text { ALyPREA } \\ 100 \\ \text { Equip } \\ \text { CMIGCY } \end{array}$ | (9)pepotWAIRTNuIPR2100EQUIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { USABLE OM } \\ & \text { COOR } \end{aligned}$ |  |  | $(\mathrm{a}$ <br> $1-20$ | [ $\begin{gathered}\text { (b) } \\ 21-50\end{gathered}$ | $5 \begin{gathered} (c) \\ 5-100 \end{gathered}$ | $\begin{gathered} \text { (0) } \\ 1.20 \end{gathered}$ | $\begin{gathered} (b) \\ 21-50 \end{gathered}$ | $\begin{gathered} (c) \\ 51000 \end{gathered}$ |  |  |  |  |
| $\begin{aligned} & \text { P-F } \\ & \text { A926 } \end{aligned}$ | ؛5915-081-4831 | .FFLIER: SANE AS A925 |  | Ea | FEF | REF | REF | REF | FEF | REF | REF | ficF | REP |  |  |
| P--F | '5905-556-3350 | .. TESIETOA, VARIADIE: PGLSAYSDIO3A; (81349) |  | EA | 1 | - | - | 1 | - | - | 1 | 8 | 3 |  |  |
| $\left\lvert\, \begin{aligned} & P--F \\ & \text { A928 } \end{aligned}\right.$ | '5930-296-9034 | .. TiTCTh, TOGRE: save as mo34 |  | EA | 1 | HEF | REP | REF | PEF | FEF | REF | REF | HEF |  |  |
| $\begin{aligned} & \text { P-F } \\ & \text { A929 } \end{aligned}$ | 5905-556-4105 | ...FSISTOR, VARIAELE: <br>  |  | $\pm 6$ | 1 | - | - | 1 | - | * | 1 | 8 | 3 |  |  |
| $\left\{\begin{array}{l} \text { P- F } \\ \text { A930 } \end{array}\right.$ | 5950-648-1764 | ..Tpanspoger: <br> P8130; (97965) |  | EA | 1 | - | - | 1 | - | - | 1 | 8 | $?$ |  |  |
| \|P-F |  | -.TRASSFOFVER: <br> 258354: (00159) |  | EA | 2 | - | 1 | $i$ | - | $1$ | $1$ | 13 | 6 |  |  |
| $\left\lvert\, \begin{aligned} & \text { P--F } \\ & \text { A932 } \end{aligned}\right.$ |  | .. TPANSPOMER: SAUE AS ng31 |  | EA | HEF | REF | feF | REF | fEF | REF | HEF | REF | fEF |  |  |
| $\left\lvert\, \begin{aligned} & \mathbf{x} 2-7 \\ & A 933 \end{aligned}\right.$ | 5940-272-2906 | ..TESTASAL BCAPI: 5-170; (71785) |  | EA | 3 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \mathrm{X} 2-F \\ & \text { A924 } \end{aligned}\right.$ | 5940-272-2906 | TEPMTA: SCAPL: SAVE AS A93? |  | EA | mef |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & x_{2}-F \\ & A 935 \end{aligned}$ | 5940-272-2906 | - TEphyAL BCAPD: |  | EA | PEF |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{y} 2-\mathrm{F} \\ & \text { A93 } \end{aligned}$ |  |  |  | EA | 45 |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & x=-F \\ & A 937 \end{aligned}\right.$ |  | ..STPAP TIE: SANE AS A936 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| x2-F |  | . STPAP TIE: SAME AS A936 |  | EA | feF |  |  |  |  |  |  |  |  |  |  |
| $\left\{\begin{array}{l} \mathrm{X}=-\mathrm{F} \\ \mathrm{~A} 939 \end{array}\right.$ |  | -. STRAE TIE: SAVE AS A936 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| A2-F |  | . STRAP TTE: SANE AS A936 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\left\{\begin{array}{l} X_{2}-F \\ A 9 L_{i} \end{array}\right.$ |  | - Stpar tie: Save as a936 |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $x 2-F$ A942 |  | . STRAP TIE: SANI AS A936 |  | EA | PEF |  |  |  |  |  |  |  |  |  |  |
| $\left\lvert\, \begin{aligned} & X_{2}-F \\ & A 943 \end{aligned}\right.$ |  | .. STRAE TIE: ${ }_{\text {SAVE AS A936 }}$ |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\left.\right\|_{\text {X2-F }} ^{A_{2}-F}$ |  | . Strap tie: SAME AS A936 |  | EA | PEF |  |  |  |  |  |  |  |  |  |  |
| $\mathrm{X} 2-\mathrm{F}$ A945 |  | . STPAP TIE: SAME AS A93E |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| X2-F A946 6 |  | . STRAP TIE: SANE AS A93E |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
|  |  | . Strap TiE: SAME AS A03E |  | EA | REF |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \times 2-F \\ & A 94 P \end{aligned}$ |  |  |  | EA | P.EF |  |  | \| |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { X2-F } \\ & \text { A949 } \end{aligned}$ |  | .. STPAP TIE: SARE AS A936 |  | EA | PEF |  |  |  |  |  |  |  |  |  |  |
| $\left\{\begin{array}{l} x_{2}-F \\ A 950 \end{array}\right.$ |  | ..STRAP TIE: SAME AS 49\%́ |  | EA | PEF |  |  |  |  |  |  |  |  |  |  |

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


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


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

| FEDERAL STOCK NUMBER | ITEM SEquence WUMEEP | FEDERAL STOCK NUMBER | ITEM SEQuence numaer | $\underset{\substack{\text { FEDERAL } \\ \text { STOCK }}}{ }$ NUMBER | $\begin{gathered} \text { ITEM } \\ \text { SEQUEME } \\ \text { NUMERR } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3020-640-4476 | nib 5 | 3110-640-8166 | 2577 | 3120-662-8165 | 8436 |
| 3020-640-4476 | $: 229$ | 3110-640-8166 | п¢ 36 | 3120-662-8165 | dis |
| 3020-640-4401 | ara | 3110-640-8166 | 4637 | 3120-662-8165 | 800 |
| 3110-640-8166 | *-49 | 3110-640-8166 | 4632 | 3120-662-8165 | $4{ }^{\text {a }}$ ¢ |
| 3110-640-8166 | Su5. | 3110-640-8166 | 259 | 3120-662-8165 | 2392 |
| 3110-640-8166 | 245 | 3110-640-8166 | \% 590 | 3120-723-6758 | 290 |
| 3110-640-8166 | 2.53 | 3110-640-8166 | nes: | 3120-723-6758 | 492 |
| 3110-640-8166 | :453 | 3110-640-8166 | ¢ 585 | 3120-725-6598 | $4{ }^{2}$ |
| 3110-640-8166 | 20\% | 3110-640-8166 | n<5? | 3120-725-6598 | $\therefore 30$ |
| 3110-640-8166 | n's | 3110-640-8166 | 1292 | 3120-787-9013 | tué* |
| 3110-640-8166 | 2urs | 3110-640-8166 | 4 n 9 ? | 3120-787-9013 | 236\% |
| 3110-640-8166 |  | 3110-640-8166 | :994. | 3120-787-9013 | $\pm$ ¢ $¢ 6$ |
| 3110-640-8166 | AnP\% | 3110-640-8166 | : $=95$ | 3120-787-9013 | 25: 7 |
| 3110-640-8166 | 949 | 3110-640-8166 | А 496 | 3120-787-9013 | $\underline{\sim} 369$ |
| 3110-640-8166 | atzo | 3110-640-8166 | n99 | 5305-013-3359 | a 599 |
| 3110-640-8166 | A513 | 3110-640-8166 | 2953 | 5305-043-6476 | 203 |
| 3110-640-8166 | A5:9 | 3110-640-8166 | n) $^{29} 9$ | 5305-051-6751 | 9592 |
| 3110-640-8166 | :520 | 3110-640-8166 | n900 | 5305-051-6751 | 2255 |
| 3110-640-8166 | A59 | 3110-640-8166 | 490: | 5305-068-5276 | 236 |
| 3110-640-8166 | A52? | 3110-640-8166 | 2952 | 5305-068-5276 | nex |
| 3110-640-8166 | A52? | 3110-640-8166 | n903 | 5305-068-5406 | 成事 |
| 3110-640-8166 | : 536 | 3110-926-1402 | A.7- | 5305-068-5411 | 210 |
| 3110-640-8166 | 2937 | 3120-324-6424 | n02 ${ }^{\text {a }}$ | 5305-068-5411 | 499\% |
| 3110-640-8166 | 253 ${ }^{\text {a }}$ | 3120-324-6424 | 20.5 | 5305-068-5415 | n:-9 |
| 3110-640-8166 | \% 5 \% | 3120-324-6424 | a 4 | 5305-068-8431 | $\dot{R}^{2}=$ |
| 3110-640-8166 | $\because$ | 3120-324-6424 | 2.5. | 5305-068-8431 | $\bigcirc$ |
| 3110-640-8166 | $\boldsymbol{n}$ - | 3120-324-6424 | in: | 5305-208-4961 | nis |
| 3110-640-8166 | iss | 3120-324-6424 | $\cdots$ | 5305-208-4961 | : 1 |
| 3110-640-8166 | $\lambda=5$ | 3120-324-6424 | :- | 5305-272-8533 | 20. |
| 3110-640-8166 | A 5 \% | 3120-324-6424 | $\cdots$ | 5305-272-8533 | 2: 5 |
| 3110-640-8166 | $\cdots$ | 3120-324-6424 | $\cdots$ | 5305-241-3120 | $\dot{n}=5$ |
| 3110-640-8166 | 85.8 | 3120-555-7544 | 40 | 5305-531-9520 | A29 |
| 3110-640-8166 | $\mathrm{A}=0$ | 3120-661-4991 |  | 5305-531-9520 | n) |
| 3110-640-8166 |  | 3120-662-0754 | 40. | 50--1--:- | $\therefore \cdot$ |
| 3110-640-8166 | - - | 3120-662-0754 | A? ${ }^{\text {a }}$ | ¢•- - - | $\dot{4}$. |
| 3110-640-8166 | $\therefore$ - | 3120-662-6797 |  |  | $\therefore \%$ |
| 3110-640-8166 | $x \rightarrow 5$ | 3120-662-6797 | Aagh | \%--* | i |
| 3110-640-8166 | $i=-$ | 3120-662-6797 | $\cdots$ | : - - - - | $\therefore$ |

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

| FEDERAL STOCK NUMBER |  | FEDERAL STOCK NUMBER | sequence THIVER | FEDERAL STOCK NUMBER | $\begin{gathered} \text { MEA } \\ \text { SEQUEMCE } \\ \text { MUWRER } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5305-543-5080 | 20 | 5305-984-7367 | A.64. | 5305-990-6381 | A233 |
| 5315-550-5011 | Erse | 5305-984-7360 | 2470 | 5305-990-6381 | A268 |
| 5315-550-5011 | $: 230$ | 5305-988-1721 | A 3.3 | 5305-990-6381 | A347 |
| 5305-576-0528 | \% | 5305-988-7601 | A 208 | 5305-990-6381 | A42S |
| 5305-622-1509 | 2tar: | 5305-988-7601 | 2014 | 5305-990-6381 | nö57 |
| 5305-637-7079 | 2005 | 5305-988-7601 | 2643 | 5305-990-6381 | A86: |
| 5305-637-7079 | 4.19 | 5305-988-7601 | A692 | 5310-045-4007 | his8 |
| 5305-637-7079 | 2859 | 5305-988-7601 | A) ${ }^{1}$ | 5310-141-1795 | A4.58 |
| 5305-637-7079 | $\pm 705$ | 5305-988-7601 | A759 | 5310-141-1795 | $\mathrm{A}_{464}$ |
| 5305-637-7079 | :730 | 5305-988-7601 | a765 | 5310-141-1795 | A733 |
| 5305-637-7079 | ¢E33 | 5305-988-7601 | 6771 | 5310-141-1795 | A851 |
| 5305-637-8249 | ¢EL | 5305-988-7601 | 477 | 5310-167-0797 | A128 |
| 5305-637-8249 | 5 EP | 5305-988-7601 | A829 | 5310-167-0797 | A191 |
| 5305-638-2260 | 5258 | 5305-988-7602 | A 236 | 5310-167-0816 | A086 |
| 5305-639-4777 | S-27 | 5305-988-7602 | 4299 | 5310-167-0816 | A167 |
| 5305-656-8320 | 2350 | 5305-988-7602 | -4.57 | 5310-167-0816 | 8.403 |
| 5305-728-9397 | 269\% | 5305-988-7602 | Aน83 | 5310-167-0816 | А 238 |
| 5305-722-9397 | $2 \rightarrow 00$ | 5305-988-7602 |  | 5310-167-0818 | 4836 |
| 5305-958-6517 | 20ts | 5305-988-7602 | A657 | 5310-167-0838 | AELO |
| 5305-958-6517 | 20\%9 | 5305-988-7602 | A663 | 5310-167-0838 | ats 4 |
| 5305-958-6517 |  | 5305-988-7602 | : 687 | 5310-167-0876 | ATOE |
| 5305-959-0379 | A- ${ }^{1}$ | 5305-988-7602 | AE96 | 5310-167-0876 | ATii |
| 5305-959-0379 | 2-: | 5305-988-7602 |  | 5310-167-0876 | 2834 |
| 5305-959-0382 | - | 5305-988-7602 | fel 7 | 5310-167-0878 | 4:96 |
| 5305-959-0382 | -13 | 5305-988-7603 | A263 | 5310-167-0878 | A. 07 |
| 5305-959-0382 | - 50 | 5305-988-7603 | A 385 | 5310-208-9255 | A842 |
| 5305-959-1082 | $20: 9$ | 5305-988-7603 | AT19 | 5310-262-5076 | A 447 |
| 5305-959-1082 | asm | 5305-988-7603 | A ${ }^{\text {a }}$ \% | 5310-275-1993 | 4119 |
| 5305-959-1082 | $\therefore \mathrm{A}$ | 5305-988-7605 | ACS6 | 5310-275-1993 | A143 |
| 5305-959-1082 | \% ${ }^{\text {\% }}$ | 5305-988-7605 | Al6e | 5310-275-1993 | $\mathrm{Al}_{18} \mathrm{C}$ |
| 5305-959-1909 |  | 5305-988-7605 | hest | 5310-275-1993 | A 2 at |
| 5305-959-1909 | : $=$ - | 5305-988-7605 | het | 5310-595-6211 | A0ta |
| 5305-978-93446 | - | 5305-988-7605 | 4ter | 5310-595-6211 | A06s |
| 5305-978-9346 | m:5 | 5305-988-7605 | A 6 es | 5310-595-6211 | A310 |
| 5305-983-7447 | nest | 5305-988-7606 |  | 5310-595-6211 | 4.313 |
| 5305-984-4988 | $8 \times$ | 5305-988-7606 | A 5 - | 5310-595-6211 | AEts: |
| 5305-984-6189 | -55 | 5305-990-6381 | $40 \%$ | 5310-655-7287 | A830 |
| 5305-984-6191 | n=si | 5305-990-6381 | 009 | 5310-685-3744 | A 216 |

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| FEDERAL STOCK NUMBER | $\begin{gathered} \text { ITEM } \\ \begin{array}{c} \text { SERUEMCE } \\ \text { HOMERER } \end{array} \end{gathered}$ | FEDERAL sTock NUMBER | $\begin{aligned} & \text { ITEA } \\ & \text { SEQUEMCE } \\ & \text { RUNERR } \end{aligned}$ | FEDERAL STOCK NUMBER |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5310-685-3744 |  | 5315-847-3735 | --- | 5340-954-1141 |  |
| 5310-685-3744 | 2845 | 5315-853-0681 | A729 | 5340-954-1141 | 299 |
| 5310-771-3861 | A404 | 5325-202-1612 | 4087 | 5340-998-0612 | a401 |
| 5310-771-3861 | A732 | 5325-202-1612 | 4266 | 5340-998-0612 | 240 |
| 5310-771-3861 | 8899 | 5325-202-1612 | A849 | 5355-566-0151 | 4033 |
| 5310-809-4058 | A102 | 5325-306-2357 | A694 | 5841-921-8692 | 8369 |
| 5310-914-8217 | A 405 | 5325-306-2357 | a703 | 5905-542-9440 | Rc32 |
| 5310-934-9739 | a864 | 5325-721-7367 | 4987 | 5905-566-3350 | Ag2t |
| 5310-934-9748 | - 355 | 5325-721-7367 | A888 | 5905-566-4105 | 4929 |
| 5310-994-6964 | A495 | 5325-766-7026 | A883 | 5910-241-9589 | 216a |
| 5310-994-6964 | asob | 5325-766-7026 | 4884 | 5910-241-9589 | 4921 |
| 5310-994-6964 | а693 | 5325-766-7026 | a885 | 5915-081-4831 | 1925 |
| 5310-994-6964 | A722 | 5325-766-7026 | A886 | 5915-081-4831 | 4926 |
| 5310-949-6284 | A25s | 5340-103-0689 | 0.12 | 5920-050-4953 | 2037 |
| 5315-039-5563 | A393 | 5340-103-0689 | 4113 | 5920-280-4998 | 2030 |
| 5315-045-2561 | 4370 | 5340-119-4791 | A872 | 5920-892-9311 | 4035 |
| 5315-045-2561 | A906 | 5340-119-4791 | A873 | 5920-892-9311 | 4036 |
| 5315-045-2561 | A907 | 5340-209-9371 | $\therefore \times 99$ | 5930-296-9034 | 0.34 |
| 5315-045-2561 | 1508 | 5340-209-9371 | alo | 5930-296-9034 | A1LO |
| 5315-045-2561 | A909 | 5340-209-9371 | A264 | 5930-296-9034 | 8929 |
| 5315-058-9698 | A394 | 5340-209-9371 | A265 | 5930-514-7576 | 4.53 |
| 5315-058-9731 | n357 | 5340-222-8562 | ${ }^{\text {A08 }} 4$ | 5940-272-2906 | 4933 |
| 5315-058-9731 | AT34 | 5340-298-6564 | A108 | 5940-272-2906 | 2934 |
| 5315-240-1014 | 0912 | 5340-298-6564 | A226 | 5940-272-2906 | 0935 |
| 5315-753-3892 | ${ }^{4} 36$ | 5340-298-6564 | A252 | 5940-283-5280 | 1249 |
| 5315-753-3892 | A199 | 5340-298-6564 | A641 | 5950-648-1764 | 4930 |
| 5315-823-8742 | A853 | 5340-298-6564 | A655 | 6650-986-5197 | 4985 |
| 5315-823-8745 | ${ }^{\text {A732 }}$ | 5340-420-7606 | A866 | 6650-986-5197 | 4986 |
| 5315-823-8745 | A848 | 5340-420-7606 | $\therefore$ | 6740-246-8013 | 4069 |
| 5315-828-3251 | A203 | 5340-420-7606 | A868 | 6740-246-8013 | 4292 |
| 5315-841-4442 | A254 | 5340-420-7606 | A869 | 6740-249-8800 | acto |
| 5315-844-5644 | ${ }^{\text {A }} 17$ | 5340-720-8064 | A 396 | 6740-249-8800 | 2294 |
| 5315-844-5644 | A763 | 5340-807-6638 | A248 | 6740-249-8801 | 4057 |
| 5315-844-5644 | A 769 | 5340-817-5516 | A237 | 6740-249-8801 | A390 |
| 5315-844-5644 | A775 | 5340-817-5516 | A2 38 | 6740-464-9198 | 4918 |
| 5315-844-5644 | A701 | 5340-825-5906 | 4073 |  |  |
| 5315-847-3735 | A054 | 5340-839-9050 | A757 |  |  |
| 5315-847-3735 | A212 | 5340-865-0219 | 4359 |  |  |

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

| FEDERAE stock NUMEER |  | ITEM SEquence NUMBE? | FEDERAL STOCK NUMBER |  | ITEM sequence NUMBER | FEDERAL STOCK NUNBER |  | ITEM SEquence Muners |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FEF \%O. | YEG $\infty$. | ITEY SES. MO | HEE TO. | NEG $0^{0}$. | ITEM SEG. NO. | FEF MC. | NEG $x$. | STEY SEF. MO. |
| A17215 | 02145 | 459 | A1745 | 02145 | A512 | A18359 | 02145 | 5589 |
| A17219 | 02145 | A078 | A. 3.457 | 00245 | A 530 | 218355 | 02145 | A 600 |
| ALP2 ${ }^{\text {a }}$ | 021.5 | A09 1 | 4,545? | 02145 | A) 48 | A19355 | 0.645 | 4612 |
| A 7218 | 02145 | 2272 | A17457 | 02145 | A566 | A18355 | 02145 | $4 \times 28$ |
| A 4 T28 ${ }^{\text {a }}$ | 02145 | A2\% 5 | A 2747 | 02345 | 273s | 248356 | $02: 45$ | $\pm 5$ ¢ 6 |
| 417220 | 02145 | A077 | AL7570 | 02145 | A 276 | A! 2356 | 02145 | 4599 |
| 117220 | 02145 | 9080 | A 7570 | 02165 | A9\% | LiA35t | 021.5 | né: 0 |
| 117220 | 22145 | A271 | A1950 | 02:45 | A311 | A18396 | 02145 | AEc: |
| 4729 | 02145 | 20274 | A1) 723 | 02145 | A802 | A18358 | 02145 | A5ce |
| 1-9 | 02145 | A06 ${ }^{\text {a }}$ | 51.685 | 02145 | A4is? | A18359 | 02145 | $\mathrm{A}_{5}{ }^{\circ}$ |
| 1059 | 02165 | A068 | ablas | 02145 | ALP 8 | A18258 | 22165 | Re ${ }^{-7}$ |
| 19240 | cres | A 399 | A17649 | 02145 | ALOA | AL8358 | 02145 | necos |
| 17090 | 02545 | A083 | A18069 | 02245 | A498 | A18358 | 02.245 | Re:9 |
| 17274 | 02245 | A834 | 218069 | 02145 | A 500 | A 4858 | 0214 | neas |
| 17274 | 02145 | A8: 5 | Al8ct? | 02145 | A 492 | A. 93.83 | 02145 | - 5 5 ${ }^{\text {P }}$ |
| 17736 | 021.5 | $A^{7}{ }^{36}$ | A1807 3 | 02145 | A503 | 218369 |  | 459 |
| 17237 | 02145 | A818 | A18280 | 02145 | $\mathrm{A}^{-60}$ | A18374 | 02145 | 478. |
| .7332 | 02145 | A $7^{2}$ | Al 8290 | 02145 |  | A 8374 | 021.5 | $\boldsymbol{n T S}$ |
| 7387 | 02145 | 4590 | A) $\mathrm{P}_{2} \mathrm{O}_{0}$ | 02145 | AT7: | Algest | 324.5 | $\mathrm{a}^{750}$ |
| 7307 | 02165 | A529 | A19280 | 021.5 | ATPa | A19374 | 02145 | $\mathrm{n}-\mathrm{C}$ |
| 7387 | 02145 | A546 | A18321-1 | 02145 | A819 | Ale372 | 0765 | n7ee |
| 3307 | 02145 | A564 | A19311-1 | 02145 | Ason | A18374 | 02145 | $\mathrm{n}_{7} \mathbf{5 9}$ |
| 7404 | 02145 | A511 | A19311-2 | 02145 | A. 21 | A18374 | 1.2.45 | 4790 |
| 74.4 | 02.45 | A 20 | $\mathrm{Al}^{8} 3.2 \mathrm{i}-2$ | 02145 | A ${ }^{\text {a }}$ ( | A26374 | 02145 | A-9 |
| 7.48 | 02:45 | A5L? | A18312 | 02145 | A823 | A 88.875 | 215 | ait: |
| 7.04 | 02:56 | A5c5 | Al832? | 0.3145 | $\mathrm{A}^{\circ} \mathrm{OL}$ | Alests | $\because 145$ | $\dot{n}^{+}$ |
| $4: 0$ | 02145 | AT30 | Alsatel | 02145 | AF90 | Alerps | a, 65 | m 3 |
| 40 | 02145 | $\mathrm{A}^{702}$ | A10 246 c - | 02145 | A 99 | A183-4.1 | 0,1.5 | Sils |
| 410 | 02.45 | A 0 ? | Ai834- | 0.145 | Afas | A $28376-1$ | 0.145 | A : |
| $4: 0$ | 02145 | A794 | A 29347 | 028145 | A 90 | ALBOTf.: | 0.2.45 | $:^{-1}$ |
| 4.2 | 0214. | A 90. | A18254 | 0.160 | Aros | A103c: | 0.:30 | aide |
| 412 | 02245 | A005 | $\mathrm{Al}^{6} 3 \mathrm{Sc} 4$ | 201.42 | A5ct | Al829: | c.:- | m: 25 |
| 415 | 02.45 | A bet | Al ${ }^{\text {aras }}$, | 50.145 | A691 | A) 5389 | 0.25 | A $=$ - |
| 412 | 02145 | A $\mathrm{SO}_{7}$ | [15 035 | 023.45 | Af ${ }^{2}$ | A1) $\mathrm{Tl}_{4} 12$ | 0214 | A.30 |
| 426 | 02145 | A021 | Ais ${ }^{8} 5$ | 02165 | A-12 | A cail | 021.5 | A |
| 126 | $02: 45$ | A0, | -1exis | 20.45 | A617 |  | 0.144 | 4,00 |
| 126 | 02145 | A470 |  | 10.2145 | AFE? | A2F4: | 02145 | $\mathrm{A}^{2} \mathrm{Cl}$ |
| 126 | 02145 | A. 31 | $\mathrm{Al}^{9} 3 \mathrm{Cl}$ | 118145 | Ar 24 | A182.64 | 08.45 | At:0 |

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

| FEperal stock cunalar |  | ITEM sequence MMABER | $\begin{gathered} \text { fEDERAL } \\ \text { STOCK } \\ \text { HUPERR } \end{gathered}$ |  | $\begin{gathered} \text { ITER } \\ \text { sequaice } \\ \text { MOHBER } \end{gathered}$ | $\begin{aligned} & \text { FEDERAL } \\ & \text { STOCK } \\ & \text { RUNEER } \end{aligned}$ |  | $\begin{gathered} \text { ITEM } \\ \substack{\text { sepurace } \\ \text { muterer }} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REP 80. | NOCCO. | ITEM SEC. ${ }^{\text {O }}$ O. | REP BO . | vect co. | ITIM SES. BO | FEP mo. | NTGCO. |  |
| 817264 | 02145 | 4677 | 818110 | 02145 | A782 | B18508-1 | 02145 | 1686 |
| 817266 | 02145 | 1088 | 818299-: | 02145 | 4681 | 218508-2 | 02145 | 4695 |
| 817310-1 | 02145 | A435 | 818299-1 | 02145 | 4682 | B18513 | 02145 | 4162 |
| 817310-1 | 02145 | ${ }^{4} 461$ | 838299-2 | 02145 | 4683 | 818513 | 02145 | A704 |
| 217310-2 | 02145 | 2436 | B18299-2 | 02145 | 1684 | 818523 | 02145 | 1709 |
| 317310-2 | 02145 | A462 | 818300 | 02145 | A632 | 818515 | 02145 | 1656 |
| 317341 | 02145 | A751 | B18300 | 02145 | 4633 | B28515 | 02145 | 1662 |
| 317341 | 02145 | A752 | 818300 | 02145 | 1646 | 818516 | 02145 | 1267 |
| 147341 | 02145 | 1753 | 818300 | 02145 | A647 | 818553-1 | 02145 | 1758 |
| 117341 | 02145 | A754 | 818301 | 02145 | 4716 | B18553-1 | 02145 | ${ }^{1764}$ |
| 137369 | 02145 | 1012 | 818301 | 02145 | 4717 | 818553-2 | 02145 | A770 |
| 117367 | 02145 | 4013 | 818302 | 02145 | A743 | 818553-2 | 02145 | 4776 |
| 117367 | 02145 | A42? | 818302 | 02145 | A764 | B18634 | 02145 | 0174 |
| 117367 | 02145 | A423 | 818302 | 02145 | A745 | 834-3 | 72061 | 4373 |
| 17368 | 02145 | A010 | B18302 | 02145 | 2746 | 846-3 | 71041 | A127 |
| 17368 | 02145 | 4011 | 818323 | 02145 | A634 | B46-3 | 71041 | 0190 |
| 17368 | 02145 | A420 | 818323 | 02145 | A635 | CaU4147cloo | 72625 | A395 |
| 17368 | 02145 | $\mathrm{A}_{421}$ | 818323 | 02145 | A648 | 211298 | 81640 | A375 |
| 17370 | 02145 | Ab37 | 818323 | 02145 | A649 | C12320-2 | 02145 | 1060 |
| 17370 | 02145 | ${ }^{\text {A463 }}$ | 818324 | 02145 | A491 | C12320-2 | 02145 | 4063 |
| 17379 | 02145 | 1009 | $\mathrm{BI}_{18324}$ | 02145 | A502 | c12320-2 | 02145 | A309 |
| 17379 | 02145 | ${ }^{4} 419$ | 818348 | 02145 | A688 | C12320-2 | 02145 | А34 |
| 17390 | 02145 | A678 | 818348 | 02145 | A697 | C16291-2 | 02145 | 4224 |
| 17391 | 02145 | А679 | ${ }^{818352}$ | 02145 | 0756 | C16581 | 02145 | 0307 |
| 17392 | 02145 | A680 | ${ }^{818361}$ | 02145 | A269 | C16583 | 02145 | A306 |
| . 7482 | 02145 | ATSS | ${ }^{188362}$ | 02145 | A685 | C16587 | 02145 | A303 |
| . 7572 | 02145 | A728 | B18367-1 | 02145 | A222 | C16590 | 02245 | A305 |
| 7585 | 02145 | 4439 | 818368 | 02145 | A050 | c16995 | 02145 | A304 |
| 7585 | 02145 | A440 | B18369 | 02145 | A223 | C17321 | 02145 | 2008 |
| 7585 | 02145 | A465 | 818370 | 02145 | A048 | C17321 | 02145 | A418 |
| 7585 | 02145 | ${ }^{\text {a }} 466$ | ${ }_{818373}$ | 02145 | A714 | C174E1 | 02145 | A434 |
| 7587 | 02145 | 1023 | ${ }^{188373}$ | 02145 | A715 | C17481 | 02145 | A460 |
| 7587 | 02145 | A432 | 818377 | 02145 | A176 | C176i1-3 | 02145 | ${ }^{\text {A4 }} 33$ |
| 7719 | 02145 | ${ }^{\text {A494 }}$ | 818377 | 02145 | A17T | C17611-2 | 02145 | A459 |
| 1719 | 02145 | A505 | ${ }^{818412}$ | 02145 | A286 | C18296 | 02145 | A658 |
| 7847 | 02145 | A270 | ${ }^{\text {B18495 }}$ | 02145 | ${ }^{\text {A03 }} 1$ | C18296 | 02145 | 2664 |
| 1898 | 02145 | A41: | ${ }_{818501}$ | 02145 | A489 | C18321-1 | 02145 | A668 |
| 3066 | 02145 | Al90 | $\mathrm{Br}_{18501}$ | 02145 | A501 | C18321-2 | 02145 | A66\% |

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TO ITEM SEQUENCE NUMBER (Continued)

| FEDERAL STOCK Mumber |  | $\begin{gathered} \text { ITEM } \\ \text { SEQUEMCE } \\ \text { NUHBER } \end{gathered}$ | FEDERAL STOCK MUFBER |  | $\begin{gathered} \text { ITER } \\ \text { SEQUEME } \\ \text { MUHERER } \end{gathered}$ | FEDERAL STOCK HUWBER |  | $\begin{aligned} & \text { ITEM } \\ & \text { ST UEEACE } \\ & \text { OUABER } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EEF 10. | EPGCO. | IREM SES. 80. | fer mo. | Mac co. | ITRM SEQ. RO. | REF RO. | MRC.co. | ITEM EEP. HO. |
| C18349 | 02145 | 2024 | D17340-1 | 02145 | 0426 | Fr636-2 | 1.70901 | ${ }^{1911}$ |
| C18350 | 02145 | A585 | D1/340-2 | 02145 | 4007 | FG1-1022-904 | 27780 | ${ }^{1} 33$ |
| C18350 | 02145 | A596 | D17340-2 | 02.45 | 0.417 | PG1-1022-904 | 27780 | A196 |
| C18350 | 02145 | $a 607$ | D17573-2 | 02145 | 0005 | FG1-1024-901 | 27780 | ${ }^{\text {a }} 35$ |
| C18350 | 02145 | A618 | 517580-2 | 02145 | A415 | FG1-1024-901 | 27780 | - 1198 |
| C18363 | 02145 | A485 | D18277-1 | 02145 | 4025 | FWiz6G: | 71400 | 4035 |
| C18363 | 02145 | A497 | D18277-2 | 02.15 | au26 | FHP26al | 71400 | $\therefore 1036$ |
| c18366-1 | 02145 | А ¢́to $^{\text {a }}$ | D18344 | 02445 | A672 | POEA2SOLI | 81349 | 4037 |
| C18366-2 | 02245 | 4671 | D18371 | 02145 | 1030 | G57Eb3 | C'S296 | A883 |
| c18469-1 | 02145 | A486 | D18372 | 02145 | A027 | 657rb3 | 03296 | A884 |
| C18469-2 | 02145 | A498 | D18503 | 0214: | A028 | C57883 | 03296 | ${ }^{4885}$ |
| C18470 | 02145 | A508 | D18505 | 02145 | A002 | C57ab3 | 03296 | A886 |
| C18470 | 02145 | 2526 | D18521 | 02145 | 1040 | hoth | 71041 | 0.45 |
| C18470 | $0 \times 145$ | A544 | D18523 | 02145 | 4039 | HDIE | 71041 | A229 |
| C18470 | 02145 | A562 | FP35-2 | 71041 | A290 | hdon | 83086 | A363 |
| C18473-1 | 02145 | 4580 | FB35-3 | 71041 | 1156 | н¢¢ | 71041 | A728 |
| C18473-2 | 02145 | A582 | F835-3 | 7204] | A379 | hricisid | 07886 | A376 |
| C18502-1 | 02145 | $\mathrm{A}^{4} 87$ | FB35-3 | 71041 | A380 | hrivsid | 07886 | A377 |
| C18502-2 | 02145 | Al99 | F-35-3 | 71041 | A381 | hS25020-12 | 73957 | A073 |
| C18504 | 02145 | ${ }^{\text {A5 }} 84$ | F835-3 | 71041 | A382 | hustahk | 99041 | A369 |
| C18504 | 02145 | A595 | FB46 | 71041 | A364 | HW3201 | 44560 | A360 |
| C18504 | 02145 | A506 | FP46 | 71041 | A365 | Lc032d3 | 84830 | A525 |
| C18504 | 02145 | . 617 | FB46 | 71041 | ${ }^{\text {A }} 366$ | LC032d3 | 84830 | A543 |
| c18511 | 02145 | A628 | FB46 | 71041 | A367 | LC032, 3 | 84830 | A561 |
| c18511 | 02145 | A642 | F846 | 71041 | A368 | LCO32d3 | 84830 | A579 |
| C18517 | 02145 | A049 | FBL6-2 | 71041 | ${ }^{\text {a }} 14$ | LC055F3 | 84830 | A075 |
| C23 | 27545 | A374 | FB46-2 | 71041 | A015 | LC055F3 | 84830 | A293 |
| crbone | 73445 | A920 | F346-2 | 71041 | A016 | Leorgct | 84830 | A592 |
| ClCharfao | 73445 | ${ }^{\text {al6 }}$ C | FBL6-2 | 71041 | $\mathrm{A}^{2} 24$ | LE029CT | 84830 | ${ }^{\text {A593 }}$ |
| CLIEARF80 | 73445 | A921 | FB46-ic | 71041 | A425 | LE029C7 | 84830 | A603 |
| D16791 | 02145 | A302 | FB46-2 | 71041 | AT21 | LE02907 | 84830 | A604 |
| D16919-1 | 02145 | ${ }^{1003}$ | FBL6-2 | 71041 | A722 | LE029C7 | 84830 | ${ }^{\text {A614 }}$ |
| D16919-2 | 0.145 | A004 | FB46-2 | 71041 | A723 | LE029C7 | $848 \%$ | A615 |
| D17303-1 | 02145 | A. 45 | FBL6-2 | 71041 | ${ }^{\text {A }}$ 24 4 | Leozgct | R4830 | A625 |
| D17303-1 | 02145 | ${ }^{\text {A481 }}$ | Fbl6-3 | 71041 | A889 | LE029C7 | 84830 | A626 |
| D17303-2 | 02145 | A456 | FB46-3 | 71041 | A890 | LEO3LCT | 84830 | ${ }^{\text {Al93 }}$ |
| D17303-2 | 02145 | ALP2 | FPL6-3 | 71041 | ${ }^{\text {A891 }}$ | LE034C7 | 84830 | A504 |
| D17340-1 | 02145 | A000 | FF636-2 | 70901 | A910 | LE055D3 | 84830 | A164 |

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T0 ITEM SEQUENCE NUMBER (Continued)


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

| FEDERAL STOCK MUMBER |  | ITEM SEquence MUNBER | FEDERAL STOCK <br>  |  | ITEA SEquEACE堌HER | $\begin{aligned} & \text { FEDERAL } \\ & \text { STOCK } \\ & \text { HUNBER } \end{aligned}$ |  | ITEM <br> SEquetuce <br>  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HeF EO. | HPGCO. | TTEM SEP. FO. |  | 1 MPC 00. | ITPM SEP, HO. | SEP EO. | MPGCO. |  |
| MS25281-4 | 96906 | A867 | NS35338-41 | 96906 | A158 | \$6172 | 08863 | A779 |
| MS25281-4 | 96906 | A868 | *635490-4 | 96906 | 4887 | PS062032 | 77122 | A762 |
| MS25281-4 | 96906 | A869 | KE35490-4 | 96906 | 4888 | PS062032 | 77122 | A768 |
| Ms25281-6 | 96906 | 4915 | 1835649-242 | 96906 | A864 | PS06203? | 77122 | A774 |
| MS25281-6 | 96906 | A916 | US35649-244 | 96906 | A355 | PS062032 | 77122 | A780 |
| Ms25281-6 | 96906 | 4917 | vS35650-83 | 96906 | Al95 | PS182007 | 77122 | A 405 |
| ME25281P2 | 96906 | A 401 | M535650-83 | 96906 | A506 | PT25 | 94882 | A074 |
| MS25281F2 | 96906 | A402 | M635650-63 | 26906 | A693 | PT25 | 94882 | A298 |
| MS27183-10 | 96906 | Ri02 | MS35650-83 | 96906 | 4702 | P8130 | 97965 | A930 |
| M835191-268 | 96906 | Alblu | M535756-32 | 96906 | A370 | FVLIEAYSDIO3A | 81349 | 4927 |
| MS35191-268 | 96906 | A470 | NS35756-32 | 96906 | A906 | FV4EBYSDIO4A | 81349 | A929 |
| MS35206-228 | 96906 | A843 | -835756-32 | 96906 | A907 | EVLEEBYSDS03A | 81349 | 4032 |
| MB35206-241 | 96906 | A839 | 4535756-32 | 96906 | A908 | R18522 | 02145 | A169 |
| M335206-243 | 96906 | 4856 | M635756-32 | 96906 | A909 | SCP83314-2SS | 98003 | 4093 |
| Ms35206-277 | 96906 | 0343 | M551021-34 | 96906 | A351 | SCB83314-288 | 98003 | A094 |
| M635221-15 | 96906 | A234 | 4651023-12 | 96906 | A516 | SCB83314-288 | 98003 | A235 |
| M535223-2 | 96906 | AS94 | 1651023-12 | 96906 | A534 | SCB83314-288 | 98003 | A236 |
| M535223-2 | 96906 | 0605 | 4551023-12 | 96906 | A552 | SCRETzHDSET8-32x7-8 | 70276 | Alls |
| M535223-2 | 96906 | 8616 | KS51023-12 | 96906 | A570 | S ${ }^{\text {RCAPSCHSST6-32x1 }}$ | 70138 | 8.161 |
| MS35223-2 | 96906 | 4627 | NS51023-48 | 96906 | 4353 | SFR168525 | 83086 | A449 |
| MS35223-26 | 96906 | A085 | NS51023-49 | 96906 | A241 | SFR168K25 | 83086 | A450 |
| Ms35223-26 | 96906 | A109 | M551023-49 | 96906 | A352 | SFR168x25 | 83036 | A451 |
| Ms35223-26 | 96906 | A259 | MS51023-53 | 96906 | A691 | SFR168K25 | 83086 | A452 |
| MS35223-26 | 96906 | A705 | 18551023-53 | 96906 | A700 | SFR168K25 | 83086 | A453 |
| M335223-26 | 96906 | A710 | MS51 229-51 | 96906 | A354 | SFR166K25 | 83086 | A454 |
| MS35223-26 | 96906 | A833 | H551923-197 | 96906 | AOL3 | SFRl68k25 | 83086 | A475 |
| MS35223-27 | 96905 | A018 | v559231-196 | 96906 | A157 | SFR168K25 | 83086 | A476 |
| M335223-27 | 96906 | A166 | V659231-196 | 96906 | A291 | SFR168K25 | 83086 | A477 |
| Ms35223-32 | 96906 | A076 | 1691528-1D2B | 96906 | A033 | SPRI68K25 | 83086 | AL78 |
| M335223-39 | 96906 | A350 | NPG17S2LE | 07886 | A37\% | SFR168K25 | 83086 | AL79 |
| M835223-43 | 96906 | A384 | MPSITS2LE | 07886 | $A 874$ | SFR168K25 | 83086 | A480 |
| MB35223-43 | 96906 | A832 | \$14818 | TE525 | A338 | SFRI68k25 | 83086 | AS18 |
| MS35223-47 | 96906 | A844 | N14818 | 72625 | A372 | SFR168K25 | 83086 | A519 |
| M835224-63 | 96906 | A861 | \$5712 | 08863 | All2 | SFR168K25 | 83086 | A520 |
| Ms35233-2 | $9 \times 306$ | A129 | 185712 | 08863 | All3 | SFR268k25 | 83086 | A521 |
| MS35233-2 | 96906 | A192 | K6172 | 08863 | A751 | SFR168K25 | 83086 | A522 |
| M835233-27 | 96906 | A427 | 16172 | 08863 | A767. |  | 83086 | A523 |
| M835241-19 | 96906 | A399 | N6172 | 08863 | AT73 | SFR168K25 | 83086 | A536 |

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|  |  |  | $\begin{aligned} & \text { FEDERCL } \\ & \text { STOCL } \\ & \text { Hutick } \end{aligned}$ |  | $\begin{aligned} & \text { sequence } \\ & \text { RUNAER } \end{aligned}$ | $\begin{aligned} & \text { FEOERGL } \\ & \text { STOCK } \\ & \text { SUEER } \end{aligned}$ |  | $\begin{aligned} & \text { ITEA } \\ & \text { SEQUEMCE } \\ & \text { HUHEER } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REP 90. | vec co. | TTEM SEQ. HO. $^{\text {S }}$ | Hex mo. | Hecico. | ITEA SES, MO. | R9P mo. | yTCOS. | LTEX 529. mo. |
| SF76 68 K 25 | 83086 | 4537 | SFRE883px25 | 83086 | 1105 | TY24M | 18321 | 1941 |
| 3FRa\%8\%25 | 83086 | 2538 | SFR2883PR25 | 83086 | A106 | T724M | 18321 | 4942 |
| 3PR168k25 | 83086 | A539 | SFR1883Fk2S | 83086 | A107 | ту24M | 18321 | 4943 |
| 3P716ax25 | 83096 | A540 | SFFı883Fk25 | 83086 | 1250 | trebum | 18321 | A944 |
| 3F9168x25 | 83086 | ${ }^{5} 41$ | SPF1883PK25 | 83086 | 1251 |  | 18321 | 1945 |
| [PR268\%25 | 83086 | A554 | SFR43PX25 | 83086 | 4244 | TY24M | 28321 | 0946 |
| urabakes | 83086 | A555 | SFR43PK25 | 83086 | A245 | те24M | 18321 | 4947 |
| [PR168\%25 | 83086 | A556 | SFR43PK25 | 83086 | 4246 | ту24, | 18321 | 2946 |
| FRI68k25 | 83086 | A557 | SFRb3PK25 | 83086 | 1247 | т724M | 18321 | 4949 |
| Pra6ek25 | 03086 | A5S8 | SFR43PK2S | 83086 | A248 | Tr24M | 18321 | A950 |
| FRI68K25 | 83086 | A559 | SFR43PK25 | 83086 | A249 | туг4M | 18321 | 2951 |
| PR168k25 | 83086 | 1572 | SFR43PR25 | 83086 | A361 | тү24M | 18321 | 1952 |
| P4168K25 | 83086 | A573 | SFR43PK25 | 83086 | A. 362 | т 724 M | 18321 | 4953 |
| 7R168K25 | 83086 | A574 | sMe689309 | 94197 | 1001 | туг4 | 18321 | 1954 |
| ${ }^{\text {rR168k25 }}$ | 83086 | A575 | SME6893120R2 | 94197 | A981 | түгi, | 18321 | A955 |
| 7168K25 | 83086 | A576 | SRC3 | 24011 | A324 | тх24\% | 18321 | A956 |
| T168\%25 | 83086 | A577 | SR6P1 | 28520 | 1913 | т724M | 18321 | 4957 |
| F168k25 | 83086 | A636 | solc 3L | 78643 | A524 | TY24M | 18321 | 4958 |
| H168k25 | 83086 | A637 | S01035 | 78643 | A542 | тY24, | 18321 | 4959 |
| R168k25 | 83086 | ${ }^{6638}$ | s0103L | 78643 | ${ }^{\text {a }} 60$ | TY24M | 18321 | 1960 |
| R168k25 | 83086 | A639 | s0:03L | 78643 | A578 | тү24M | 18321 | A961 |
| R168K25 | 83086 | 1650 | s. 03 | 78643 | A875 | тY24M | 18321 | 1962 |
| т168к25 | 83086 | 1651 | E.03 | 78643 | A876 | т724M | 18321 | A963 |
| 1168 k 25 | 83086 | A652 | S103 | 78643 | A877 | тY24M | 18321 | 1964 |
| 1468k25 | 83086 | A653 | S103 | 78643 | A878 | т724M | 18321 | A965 |
| $1168 \times 25$ | 83086 | A892 | 5103 | 78643 | A879 | Tr24M | 18321 | 1966 |
| $168 \times 25$ | 83086 | A893 | 5103 | 78643 | A880 | ту24M | 18321 | A967 |
| 168\%25 | 83086 | 1894 | S103 | 78643 | ${ }^{\text {A881 }}$ | T724M | 18321 | A968 |
| 168 k 25 | 83086 | A895 | S103 | 78643 | A882 | TY24M | 18321 | 1969 |
| 168k25 | 83086 | ${ }^{1896}$ | 8632-2 | 46384 | A757 | тY24M | 18321 | A970 |
| 168K25 | 83086 | A897 | 78410 | 71041 | A904 | тצ24M | 18321 | ${ }^{\text {A971 }}$ |
| 168 k 25 | 83086 | A898 | T8410 | 71041 | A905 | тY24M | 18321 | A972 |
| 168 x 25 | 83086 | A899 | TYPE24-3-16×3-4 | 73957 | A34u | TY2LM | 18321 | A973 |
| .68×25 | 83086 | A900 | TY24M | 18321 | A936 | TY24M | 18321 | A974 |
| $68 \times 25$ | 83086 | A901 | TY24M | 18321 | A937 | тY24M | 18321 | A975 |
| 68 K 25 | 83086 | 2902 | ту24M | 18321 | A938 | тугиM | 18321 | A976 |
| 68K25 | 83086 | A903 | TY24M | 18321 | A939 | TY24M | 18321 | A977 |
| 883Pk25 | 83086 | A104 | TY24M | 18321 | A940 | TY24M | 18321 | A978 |

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

| federal STOCK NUWBER |  | ITEM SEQUEMCE MLABER | FEDERAL STOCK NUHER |  | ITEM SEQUENCE WURBER | FEDERAL STOCK NUMBER |  | ITEA SEqUEHCE NUMBER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EEF no. | MPGG ${ }^{\text {c }}$ | ITEM SEQ. HO. | EEF HO | MPG CO. | ITEM SEQ. NO. | HEF HO. | MFO CO. | ITEM SEQ. MO. |
| TY24M | 18321 | 1979 | 31-95-63-02 | 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 | $8363 \mathrm{K7}$ | 15605 | A034 |
| UT2-35 | 76005 | A870 | 31-05-68 | 06175 | A988 | 8363к7 | 15605 | N10 |
| UT2-35 | 76005 | 4871 | 31-05-68 | 06175 | A989 | 8363167 | 15605 | A928 |
| UT2-50 | 76005 | 4872 | 312008 | 75915 | A038 |  |  |  |
| UT2-50 | 76005 | A873 | 320561 | 00779 | A. 49 |  |  |  |
| VH6-2000-942 | 27780 | Al34 | 381 | 70485 | A099 |  |  |  |
| vH6-2000-942 | 27780 | A197 | 381 | 70485 | A100 |  |  |  |
| 10-32×3-8\#HCDPL | 70138 | A325 | ${ }^{3}{ }^{1}$ | 70485 | A264 |  |  |  |
| 10BD6A | 81348 | A922 | 381 | 70485 | A265 |  |  |  |
| 1471 | 83330 | A148 | 4-40xashsst | 70138 | 4061 |  |  |  |
| 15-250-0500 | 73975 | A426 | 4-40x1SHSST | 70138 | A064 |  |  |  |
| 16 | 70485 | A237 | 4-40xashest | 70138 | A309 |  |  |  |
| 16 | 70485 | A238 | 4-40x1shist | 70138 | A312 |  |  |  |
| 174125 | 16428 | A914 | $4-40 \times 5-162.5 S T$ | 70138 | A727 |  |  |  |
| 200036-6 | 02145 | A029 | 440cs $3-4 \times 23-1-4$ | 26002 | A261 |  |  |  |
| 200545-6 | 02145 | A059 | 440cs3-4×23-1-4 | 26002 | A2G2 |  |  |  |
| 200596-12 | 02145 | A079 | 5-16-1873-16SST | 70138 | A356 |  |  |  |
| 200596-12 | 021:5 | 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 | A. 153 |  |  |  |
| 200612 | 02145 | A535 | 515-875 | 75495 | A850 |  |  |  |
| 200612 | 021.5 | A553 | 53-70-25 | 06175 | A982 |  |  |  |
| 200612 | 02145 | A571 | 53-70-26 | 06175 | A993 |  |  |  |
| 22NKTM82 | 72962 | A830 | 53-70-25 | 06175 | A994 |  |  |  |
| 22NMO2 | 72962 | A119 | 53-70-27 | 06175 | A992 |  |  |  |
| 22NMO? | 72962 | A143 | 53-70-32 | 06175 | A987 |  |  |  |
| 22NMO2 | 7962 | Al82 | 537096-220 | 06175 | A990 |  |  |  |
| C2NMO2 | 72962 | A227 | 537006-220 | 06175 | A991 |  |  |  |
| 25 | 83086 | A358 | 6-32.7-1ESHSST | 70276 | 4066 |  |  |  |
| 25020-12 | 14438 | A296 | 6-32x7-16SHSST | 70274 | A 409 |  |  |  |
| 3AG3 | 72400 | A924 | 6-2 $2 \times 7$-1654Es? | 73276 | A 9.55 |  |  |  |
| 3ACP | 71400 | A923 | 6-3287-ESHSST | 70276 | A260 |  |  |  |
| $35 \times 29$ | 56289 | A925 | 653 | 83330 | A 359 |  |  |  |
| $35 \times 29$ | 58280 | A926 | 7ommo? | 72962 | $\mathrm{ARH}_{4}$ ? |  |  |  |

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CROSS REFERENCE TO ITEM SEQUENCE NUMBER

| FIGURE NUMBER | $\begin{aligned} & \text { ITER } \\ & \text { NUWBER } \end{aligned}$ | $\begin{aligned} & \text { TTEM } \\ & \text { SEQUENCE } \\ & \text { NUMGER } \end{aligned}$ | FIGURE NUMBER | ITER NUMBER | IEM SEQUENCE NUMBER | FIGURE NUMBER | $\begin{aligned} & \text { YUNER } \\ & \text { NUPR } \end{aligned}$ | $\begin{gathered} \text { ITER } \\ \text { SEqueMce } \\ \text { MUMBER } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3-5 | : | 2093 | 3-5 | 42 | Ausi | 3-6 | 21 | 2251 |
| 3-5 | 1 | A094 | 3-5 | 43 | A140 | 3-6 | 22 | 4226 |
| 3-5 | :0 | A12 | 3-5 | 44 | A138 | 3-6 | 23 | 2227 |
| 3-5 | :0 | A113 | 3-5 | 15 | ${ }^{1} 39$ | 3-6 | 24 | A182 |
| 3-5 | 1: | 2097 | 3-5 | 40 | A117 | 3-6 | 25 | ${ }^{18} 82$ |
| 3-5 | 12 | 4095 | 3-5 | 47 | A115 | 3-6 | 26 | 0244 |
| 3-5 | 13 | A162 | 3-5 | 48 | A116 | 3-6 | 26 | 4245 |
| 3-5 | 14 | A165 | 3-5 | 49 | A101 | 3-6 | 27 | A207 |
| 3-5 | 15 | A166 | 3-5 | 5 | A111 | 3-6 | 28 | A208 |
| 3-5 | 16 | A167 | 3-5 | 50 | A114 | 3-6 | 29 | 1256 |
| 3-5 | 17 | A049 | 3-5 | 51 | A102 | 3-6 | 3 | -260 |
| 3-5 | 18 | A055 | 3-5 | 52 | ${ }^{\text {A }} 49$ | 3-6 | 30 | 4255 |
| 3-5 | 19 | A059 | 3-5 | 54 | ${ }^{\text {a }} 088$ | 3-6 | 31 | A2OS |
| 3-5 | 2 | A092 | 3-5 | 55 | A160 | 3-6 | 32 | 0242 |
| 3-5 | 20 | A058 | 3-5 | 56 | A159 | 3-6 | 33 | 1203 |
| 3-5 | 21 | A056 | 3-5 | cr | A042 | 3-6 | 34 | A243 |
| 3-5 | 22 | A0GC | 3-5 | 59 | A158 | 3-6 | 35 | A246 |
| 3-5 | 22 | 4063 | 3-5 | 59 | A090 | 3-6 | 36 | A172 |
| 3-5 | ${ }^{3} 3$ | AOS? | 3-5 | 59 | A091 | 3-6 | 36 | A173 |
| 3-5 | 2 | ${ }^{\text {A061 }}$ | 3-5 | 60 | A089 | 3-6 | 37 | A174 |
| 3-5 | 24 | A064 | 3-5 | 61 | ${ }^{\text {a }} 41$ | 3-6 | 37 | ${ }^{\text {Al7 }}$ |
| 3-5 | 25 | A069 | 3-5 | 7 | A210 | 3-6 | 38 | A281 |
| 3-5 | 26 | A083 | 3-5 | 8 | A099 | 3-6 | 38 | A28? |
| 3-5 | ${ }^{39}$ | ${ }^{\text {Al4 }} 4$. | 3-5 | 8 | Aioo | 3-6 | 38 | $\mathrm{A}_{293}$ |
| 3-5 | 3 | A151 | 3-5 | 9 | AD38 | 3-6 | 38 | A284 |
| 3-5 | 3 | Ais2 | 3-6 | 1 | A264 | 3-6 | 4 | A235 |
| 3-5 | 31 | A204 | 3-6 | 1 | A265 | 3-6 | 4 | A236 |
| 3-5 | 31 | A205 | 3-6 | 11 | A179 | 3-6 | 41 | A267 |
| 3-5 | 32 | $\mathrm{A}_{2} \mathrm{~L}_{2}$ | 3-6 | 11 | Al80 | 3-6 | 42 | A268 |
| 3-5 | 34 | A143 | 3-6 | 13 | A292 | 3-6 | 43 | A224 |
| 3-5 | 35 | A050 | 3-6 | 14 | A285 | 3-6 | 4. | A223 |
| 3-5 | 36 | ${ }^{\text {a } 148}$ | 3-6 | 17 | A253 | 3-6 | 45 | A258 |
| 3-5 | 38 | A10 6 | 3-6 | 18 | A200 | 3-6 | 46 | A213 |
| 3-5 | 38 | A107 | 3-6 | 19 | A257 | 3-6 | 47 | A214 |
| 3-5 | 39 | A12A | 3-6 | 2 | A300 | 3-6 | 5 | A259 |
| 3-5 | $\stackrel{1}{4}$ | A151 | 3-6 | 2 | A301 | 3-6 | 5 | A285 |
| ${ }^{3-5}$ | 40 | A108 | 3-6 | 20 | A225 | 3-6 | 50 | A252 |
| 3-5 | 4 | 19 | 3-6 | ${ }^{21}$ | A250 | 3-6 | 51 | A221 |

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CROSS REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

| FIGURE NUMBER | $\begin{aligned} & \text { ITEM } \\ & \text { MUWER } \end{aligned}$ | $\begin{gathered} \text { ITEM } \\ \text { SERUENCE } \\ \text { RUMEER } \end{gathered}$ | FIGURE NUMBER | ITEM | ITEM SEQUEHCE NUMBER | FIGURE NUMBER | $\begin{aligned} & \text { NUEMEM } \\ & \text { NUKER } \end{aligned}$ | $\begin{aligned} & \text { ITEM } \\ & \text { SEOUEACE } \\ & \text { MUPERER } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3-6 | 52 | 2206 | 3-7 | 25 | A396 | 3-7 | 54 | A329 |
| 3-6 | 54 | 2346 | 3-7 | 26 | A364 | $3-7$ | 55 | ¢379 |
| 3-6 | 4 | A248 | 3-7 | 27 | A386 | $3-7$ | 55 | A380 |
| 3-6 | 55 | A $\mathrm{CO}_{3}$ | 3-7 | 28 | A365 | 3-7 | 55 | A381 |
| 3-6 | 57 | A249 | 3-7 | 29 | A307 | 3-7 | 55 | A38: |
| 3-6 | 58 | A176 | 3-7 | 3 | A341 | 3-7 | 56 | A,94 |
| 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 | ¢ | A395 |
| 3-6 | 6 | hifl | 3-7 | 34 | A370 | 3-7 | 60 | 4321 |
| 3-6 | 60 | A287 | $3-7$ | 35 | A336 | 3-7 | 6 | A347 |
| 3-6 | 62 | A178 | $3-7$ | 36 | A366 | 3-7 | 62 | A 404 |
| 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 | :220 | $3-7$ | 38 | A 398 | 3-7 | 65 | A351 |
| 3-6 | 66 | $n \mathrm{n} 21$ | 3-7 | \% | A 345 | 3-7 | 67 | A 382 |
| 3-6 | 67 | A201 | 3-7 | 4 | A 3.46 | 3-7 | 68 | A330 |
| 3-6 | 67 | A202 | 3-7 | 40 | A309 | 3-7 | 69 | A379 |
| 3-6 | 68 | ${ }^{\text {A261 }}$ | 3-7 | 40 | A312 | 3-7 | 7 | ALOS |
| 3-6 | 68 | A262 | 3-7 | 41 | A310 | 3-7 | 70 | A389 |
| 3-6 | 8 | A237 | 3-7 | 41 | A313 | 3-7 | 71 | A359 |
| 3-6 | 8 | A238 | 3-7 | 42 | A308 | 3-7 | 72 | A352 |
| 3-6 | 9 | A239 | 3-7 | 42 | A311 | 3-7 | 73 | A35 3 |
| 3-6 | 9 | A2LO | 3-7 | 43 | 4314 | 3-7 | 75 | A317 |
| 3-7 | 1 | A322 | 3-7 | 4 | A390 | 3-7 | 76 | A344 |
| 3-7 | 10 | A315 | 3-7 | 45 | A354 | 3-7 | 77 | A326 |
| $3-7$ | 11 | A303 | $3-7$ | 46 | A 349 | 3-7 | 78 | A323 |
| $3-7$ | 12 | A304 | 3-7 | 47 | A361 | 3-7 | 79 | A322 |
| 3-7 | 13 | A350 | $3-7$ | 49 | A331 | 3-7 | 8 | 4371 |
| 3-7 | 14 | 8357 | $3-7$ | 49 | A383 | 3-7 | 80 | A318 |
| 3-7 | 17 | A337 | 3-7 | 5 | A316 | 3-7 | 81 | A391 |
| 3-7 | 18 | A374 | $3-7$ | 50 | A385 | 3-7 | 83 | A35, |
| $3-7$ | 2 | A355 | 3-7 | 51 | A376, | 3-7 | 83 | A39: |
| 3-7 | 21 | A338 | $3-7$ | 51 | A 377 | $3-7$ | 8. | A $30 \%$ \% |
| 3-7 | 21 | ${ }^{\text {A }} 10$ | $3-7$ | 52 | A387 | $3-7$ | 85 | A 319 |
| 3-7 | 21 | A411 | $3-7$ | $5{ }_{5}$ |  | 3-7 | 8 e | A 3.0 |
| $3-7$ | 22 | A 381 | 3-7 | ${ }^{4} 4$ | A 237 | 3-7 | er | 1305 |
| $3-7$ | 24 | A375 | 3-7 | 5.4 | $\mathrm{A}_{2} \mathrm{C}$ | $3-7$ | 9 | am: |

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## SECTION $V$ INDEX-FIGURE \& ITEM NUMBER

CROSS REFERENCE TO ITEM SEQUENCE NUMBER (Continued)


## SECTION V INDEX-FIGURE \& ITEM NUMBER

CROSS REFERENCE TO ITEM SEQUENCE NUMBER (Continued)

dez of the Secretary of the Army:

> W. C. WESTMORELAND, General, United States Ammy, Chief of Staff.
at:
IEL. BOWIERS
General. United States Amy. diutant Generil.

| we Amy |  |
| :---: | :---: |
| USAES (2) | LEAD (7) |
| CNOE | ATAD (5) |
| ACGC-E (2) | GENDEP (2) |
| Div of trana 1 | Sig Sec GENDEF (5) |
| Cotengrs (H) | Sig Dep (0) |
| Conspes al | Units orf under fol TOE: |
| USACDC ${ }^{(2)}$ | (1) cy ea mit) |
| CSACDC Agcy fexcept | 1-78 |
| Si9ACDCINTA (5) | 1-102 |
| US AME (10) | -128 |
| PSAMC [1\% | 6-401 |
| CONARC (5) | 6-575 |
| ARADCOM ${ }^{\text {a }}$ ) | 11-96 |
| ARADCOM Rgm | 11-127 |
| Gs Maj Comd (ty | 11-158 |
| LOGCOMD (S) | 11-226 |
| USAPA (5) | 11-237 |
| USAESC 60 | 11-500 (AA-AC) |
| USAIC ${ }^{\text {c }}$ (5) | 17 -15 |
| MDW (1) | 17-515 |
| Arraies (2) | 29-134 |
| Corps (2) | 29-136 |
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| SigFLDMS | $30-5$ |
| ETS (1) | 30-6 |
| USAERDAA (2) | 30-7 |
| USAERDAW (2) | 30-14 |
| USACCREL. (2) | 30-17 |
| sve Colleges (2) | $3-18$ |
| JSAINTS (40) | $30-25$ |
| ISAOCES (10) | 30-26 |
| ISASCS 110 | 31-105 |
| JSASESS (5) | 31-107 |
| JSAAESWBD (5) | $51-1$ |
| JSACDCEC (10) | 52-1 |
| 't Holabird (10) |  |
| 't Gordon (10) | NG: None. |
| \% Huachuca (10) |  |
| USMR (5) | USAR: None. |
| Ctamen (10) | Fur explanation of abbreviations used, see AR 310-50. |
| LBAD (10) |  |
| SAAD (10) |  |
| TOAD (10) |  |

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[^0]:    1. THE Multriler is The vumber by which the two sismiciant (sig) figures are multipled to obtain
    2. Lettrrs inolcate the charact rilitic desinated in applicable specifications: Ml-c.-5,
    3. Lettres invicate the temperature range and voltage-Temperature lumis designated in
    4. temperature coefficilent in parts per mlluon per degree centigade.
