

TECHNICAL MANUAL

**DS, GS, AND DEPOT MAINTENANCE
MANUAL INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LISTS
CAMERA SET, STILL PICTURE
KS-101A**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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DS, GS, and Depot Maintenance Manual
Including Repair Parts and Special Tools lists
CAMERA SET, STILL PICTURE KS-101A

	Paragraph	Page
CHAPTER 1. FUNCTIONING		
Section I. General		
Scope	1-1	1-1
Indexes of publications	1-2	1-1
Reporting of equipment publication improvements	1-3	1-1
II. Functioning mechanisms		
General	1-4	1-1
Shutter assembly	1-5	1-1
Function of shutter assembly manual controls	1-6	1-1
Focusing mechanism	1-7	1-3
Flash operation	1-8	1-4
III. Functioning of finder assembly and electrical circuits		
Finder assembly	1-9	1-4
Electrical circuits	1-10	1-6
CHAPTER 2. TROUBLESHOOTING		
Section I. General troubleshooting information		
General instructions	2-1	2-1
Organization of general troubleshooting procedures	2-2	2-1
General troubleshooting procedures	2-3	2-1
Special test equipment and tools required	2-4	2-2
II. Troubleshooting charts		
Camera set troubleshooting	2-5	2-2
Shutter assembly troubleshooting	2-6	2-3
Finder assembly troubleshooting	2-7	2-5
CHAPTER 3. PARTS REPLACEMENT AND REPAIRS		
Section I. Disassembly		
Parts replacement techniques	3-1	3-1
Considerations before disassembly and reassembly	3-2	3-1
Removing camera subassemblies	3-3	3-1
Disassembling the front cover	3-4	3-3
Disassembling the shutter assembly	3-5	3-3
Disassembling the base block and electronic mounting block assemblies	3-6	3-5
Disassembling the body/bellows assembly	3-7	3-7
Disassembling the back cover	3-8	3-9
Disassembling the finder assembly	3-9	3-11
II. Repair, cleaning and lubrication		
Repair and cleaning	3-10	3-13
Lubrication	3-11	3-13
III. Reassembly		
Reassembling the electronic mounting block and base block assemblies	3-12	3-14
Reassembling the shutter assembly	3-13	3-16
Reassembling the body/bellows assembly	3-14	3-18
Reassembling the back cover	3-15	3-19
Reassembling the finder assembly	3-16	3-20
Reassembling the front cover	3-17	3-21
Reassembling camera component subassemblies	3-18	3-22
IV. Adjustment		
Base block assembly and electronic mounting block assembly	3-19	3-22
Electronic mounting block color code/value table	3-20	3-25

	Paragraph	Page
Chapter 3. PARTS REPLACEMENT AND REPAIRS-Continued		
Section IV. Adjustments-Continued		
Preliminary adjustment of finder assembly _____	3-21	3-25
Shutter cable release installation and adjustment _____	3-22	3-26
Final adjustment of finder assembly _____	3-23	3-27
CHAPTER 4. DEPOT OVERHAUL STANDARDS		
Applicability of depot overhaul standards _____	4-1	4-1
Applicable references _____	4-2	4-1
Test facilities required _____	4-3	4-1
General operational test for Camera Set KS-101A _____	4-4	4-1
Shutter assembly operational test _____	4-5	4-2
Finder assembly operational test _____	4-6	4-2
Lens and finder assembly collimation _____	4-7	4-3
APPENDIX A. REFERENCES _____		A-1
B. DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST -----		B-1

CHAPTER 1 FUNCTIONING

Section I. GENERAL

1-1. Scope

a. This manual covers direct support, general support, and depot maintenance for Camera Set, Still Picture KS-101A. It includes instructions appropriate to direct support, general support, and depot maintenance for troubleshooting, testing, and repairing the equipment. It also lists tools, materials, and test equipment authorized for direct support, general support, and depot maintenance. Detailed functions of the camera set are covered in the theory section.

b. The complete technical manual for this camera set includes TM 11-6720-239-12.

c. Appendix B current as of 10 August 1970.

NOTE

For applicable forms and records, refer to paragraph 1-3, TM 11-6720-239-12.

1-2. Indexes of Publications

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

b. Refer to the latest issue of DA Pam 310-7 to determine whether there are modification work orders (MWO'S) pertaining to the equipment.

1-3. Reporting of Equipment Publication Improvements

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

Section II. FUNCTIONING MECHANISMS

1-4. General

The camera mechanisms include the lens and shutter assembly and the focusing mechanism (coupling between shutter and finder assembly). Paragraphs 1-5 through 1-8 describe the functioning of the camera mechanisms and flash operation. Paragraphs 1-9 and 1-10 describe the functioning of the finder assembly and the electrical circuits.

1-5. Shutter Assembly

The shutter assembly contains both electronic circuits and mechanical components. The electronic circuits adjust the shutter speed in accordance with the selected film speed and aperture opening, and the intensity of the light from the subject striking the photocell. The functional operation of the electronic circuits are discussed in section III

of this chapter. The mechanical components are covered in the remainder of this section.

1-6. Function of Shutter Assembly Manual Controls

a. Film Speed Control and Lighting Selector Control (fig. 1-1). The FILM SPEED Control (aperture wheel) and the lighting selector control set the aperture opening (on the aperture wheel) and the timing circuit (determining the operating limits of the photocell), respectively. The photocell's operating limits are controlled by the selected timing network that is in series with the photocell. The photocell, however, controls the shutter speed by varying the resistance of the timing circuit. The resistivity of the photocell is controlled by the light reflected upon it.

For each four of the FILM SPEED dial settings of the aperture wheel a bright (large) or dull

(small) opening in the aperture wheel is positioned directly in line with the lens and shutter. The aperture opening used is determined by the position of the lighting selector control.

A spring loaded detent block is connected to the actuator arm of the lighting selector control, and rides the toothed ratchet of the aperture wheel. The openings in the aperture wheel are oriented to the teeth on the ratchet.

The larger openings are slightly offset from the crest of the tooth. When the detent block is in the raised position and cradled in the trough between teeth, the larger opening to the left of the top tooth is directly in line with the lens. As long as the detent block is in the raised position, only the larger openings will be selected as the FILM SPEED dial settings of the aperture wheel are changed.

The smaller openings in the aperture wheel are slightly offset from the trough between teeth. When the detent block is in the lowered position, and cradled in the trough between teeth, the smaller opening to the left of the top tooth is directly in line with the lens.

The position of the detent block is shifted by the lighting selector control. When the lighting selector control is in the extreme left (dull) position, the detent block is in the lowered position and the tab at the top of the readout actuator assembly is against the right stop. In this position, only the smaller aperture openings are selected and the lighting selector indicator will be to the far right. When the lighting selector control is in the extreme right (bright) position, the detent block is

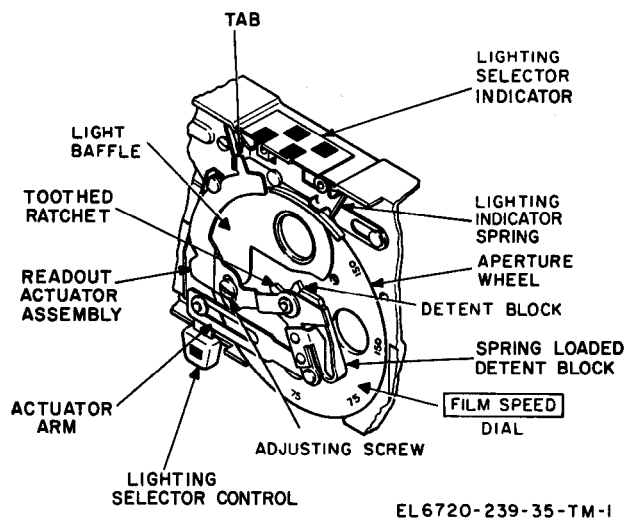


Figure 1-1. Aperture wheel and lighting selector control.

in the raised position and the tab at the top of the lighting selector actuator assembly is against the left stop. In this position, only the larger aperture openings are selected and the readout indicator will be to the far left.

b. *Shutter Cocking Arm 3* (fig. 1-2). The shutter is cocked by depressing shutter cocking lever 3. As the lever is depressed, the following actions pertinent to shutter cocking occurs:

(1) As shutter cocking lever 3 travels in a downward direction it pulls the cocking slide, and spring loaded opening blade, to the right.

(2) As the opening blade travels from left to right it carries the spring loaded closing blade with it.

(3) When the latch pin on the opening blade strikes the spring loaded blade latch, it travels up the forward edge of the blade latch and forces the blade latch down.

(4) When the latch pin clears the shoulder of the blade latch, the blade latch snaps back up locking the latch pin, and opening and closing blades, in the cocked position.

(5) As the blade latch snaps back up, it releases spring loaded timing switch S2. As the blade latch was being forced downward, it opened timing switch S2. When the blade latch snaps backup, it closes timing switch S2.

c. *Shutter Release Button 2* (fig. 1-3). The cocked shutter is released when shutter release button 2 is depressed. Shutter release button 2 is connected to the shutter assembly by a cable assembly. When shutter release button 2 is de-

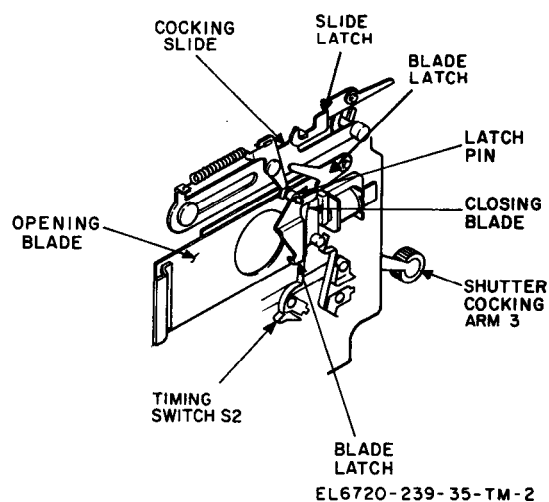


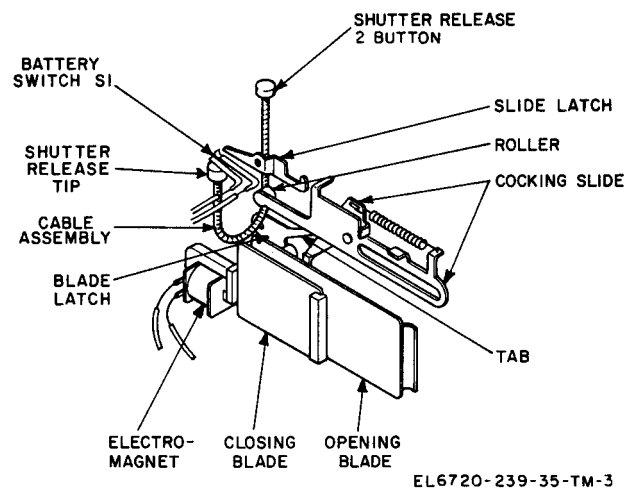
Figure 1-2. Shutter cocking mechanism,

pressed, the following actions pertinent to the shutter release occur:

- (1) Force exerted on shutter release button 2, transmitted through the cable assembly to the shutter release tip, forces the shutter release tip up.
- (2) As the shutter release tip travels upward, it forces normally open battery switch S1 to close, and trips the slide latch.
- (3) Closing battery switch S1 completes a circuit which energizes the electromagnet. The electromagnet now holds the closing blade in its cocked position.
- (4) When the slide latch is tripped, the cocking slide is released and snaps back to its original position.
- (5) As the cocking slide returns to its original position, a roller on the slide strikes a tab on the blade latch, forcing the blade latch down.
- (6) As the blade latch is forced down, it releases the opening blade, allowing it to snap forward. Light now passes through the aperture and the hole in the opening blade to expose the negative.
- (7) As the blade latch releases the opening blade, it also opens timing switch S2. The timing circuit now begins to operate.
- (8) When the average scene light has allowed the photocell to pass the correct amount of current through the timing circuit, the electromagnet is deenergized and the closing blade snaps shut.

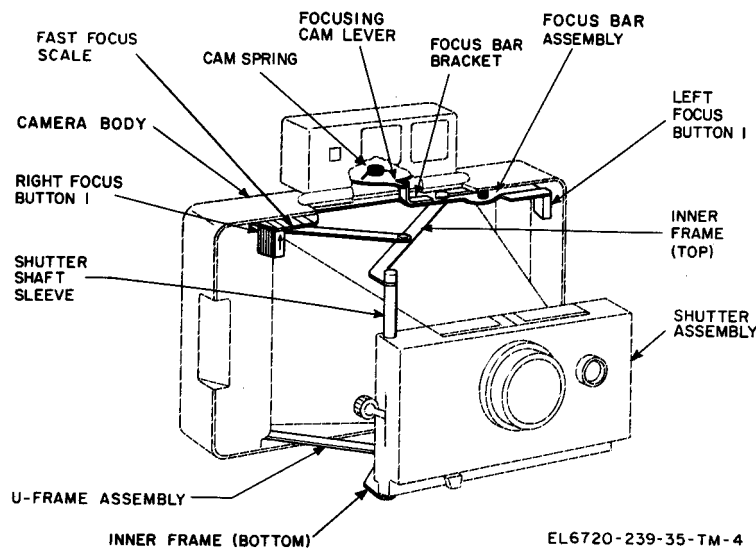
1-7. Focusing Mechanism

a. General. The camera focusing mechanism is operated by the use of focus button 1 (right) and focus button 1 (left). The two buttons are attached to opposite sides of the focus bar assembly. The focus bar assembly is connected to the inner frame (top) by a detent slide. The inner frame (top), in turn, is connected by a shutter shaft sleeve to the shutter assembly. The inner frame (bottom) is attached to the camera body and the shutter assembly by track guides. The U-frame assembly attaches both the top and bottom inner frames by means of link pivots. The three components in turn serve to hold the shutter assembly in



EL6720-239-35-TM-3

Figure 1-3. Shutter release mechanism.



EL6720-239-35-TM-4

Figure 1-4. Focusing mechanism.

place. The focusing operation is accomplished as follows:

(1) When focus button 1 (right) is pushed, the focus bar assembly slides to the left, and pulls the attached end of the inner frame (top) with it. The shutter assembly is drawn toward the camera body and the focal distance is reduced.

(2) When focus button 1 (left) is pushed, the focus bar assembly slides to the right, and pulls the attached end of the inner frame (top) with it. The assembly is pushed away from the camera body, and the focal distance is increased.

b. Focusing Mechanism. The focusing mechanism is mechanically coupled to the finder assembly by a focusing cam lever. As the focus bar assembly slides to the right, the focus bar bracket moves the focusing cam lever to the right, causing the lever to exert a strain on the cam spring. As the focus bar assembly slides to the right, the cam spring forces the focusing cam lever to the right, so that the lever is in constant contact with the focus bar bracket. The focusing cam lever is connected to the rangefinder mechanisms in the finder assembly. Refer to section III of this chapter for detailed functioning of the finder assembly.

c. Fast Focus Mechanism. The fast focus mechanism is used under certain conditions for fast (coarse) focusing. The fast focus scale is mounted on the focus bar bracket above focusing button 1 (right). When the focus bar bracket moves, it slides the fast focus scale past the fast focus indicator. Fiducial marks on the fast focus scale indicate approximate distance from camera to subject.

1-8. Flash Operation
(fig. 1-5)

a. Flash Circuit. The mechanical components of the flash circuit are the flash switches S3, S4, S9, and S10 and the shutter sync outlet. The mechanical components operate as follows:

(1) Before the shutter is cocked, the flash switch S3 is open and the make pin on the opening blade is holding flash switch S4 closed.

(2) As the opening and the closing blades are

moved toward the cocked position, flash switch S4 opens.

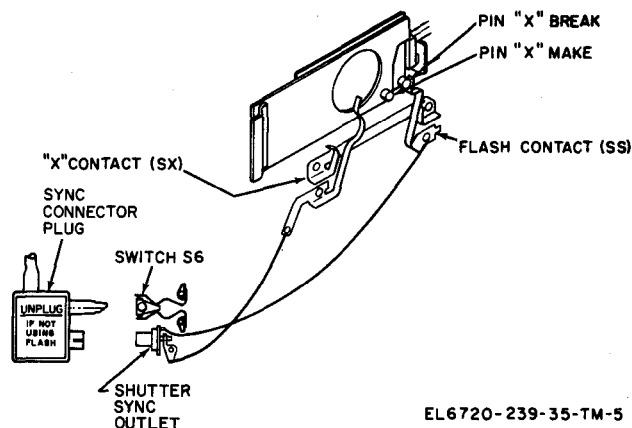
(3) As the two blades reach the cocked position, the break pin on the closing blade causes flash switch S3 to close and thus the closing blade is held by the electromagnet.

(4) When the shutter is tripped, the opening blade snaps forward and the make pin closes flash switch S4.

(5) Both switches are now closed. If a flashgun is plugged into the shutter sync outlet, the flash circuit is completed and the flashbulb fires,

(6) When the exposure is completed, the closing blade is released by the electromagnet thus allowing flash switch S3 to return to its normally open position. The flash circuit is now open, and the mechanical operating cycle is completed.

b. Flash Compensation. Flash compensation switch S6 is used to set the timing circuit for flash operation. Flash compensation switch S6 is normally closed, and acts as a bypass switch for two resistors in the timing circuit. When the sync connector plug of the flashgun is plugged into the shutter sync outlet, a plastic pin on the sync connector plug forces flash compensation switch S6 to open, placing the two resistors into the timing circuit. The resistors increase exposure time to compensate for the intense light from the flashbulb. Refer to paragraph 1-10 for functioning of the timing circuit.



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Figure 1-5. Flash operation, functioning of.

Section III. FUNCTIONING OF FINDER ASSEMBLY AND ELECTRICAL CIRCUITS

1-9. Finder Assembly
(fig. 1-6)

a. Rangefinder. The light reflected from the

subject strikes the objective lens and rangefinder lens simultaneously. The image projected through the objective lens and beam splitter to the eye lens

is a real, fixed image. The image striking the rangefinder lens is movable and is shifted from left to right to coincide with a portion of the fixed image projected on the eye lens. The movable image is shifted by the focusing mechanism. This is accomplished by turning the turret assembly, upon which the movable image lens is mounted, through a small radius of arc so that the image striking the mirror is shifted to the left or right. As the range finder is focused, the following actions take place:

(1) The image passing through the rangefinder lens is inverted by the movable image lens and strikes the mirror.

(2) The inverted movable image striking the mirror is reversed by the mirror and projected through the small opening in the movable image aperture plate to the amber colored center of the magnifying frame.

(3) The movable image passing through the center of the magnifying frame is again inverted, but not reversed, and projected onto the beam splitter.

(4) The image striking the beam splitter is reversed, resulting in a real image, and projected onto the eye lens. The movable image, projected onto the eye lens is smaller than the fixed image derived through the objective lens. The fixed image occupies the entire eye lens area. The movable image occupies a small amber square superimposed on the center of the fixed image.

b. Viewfinder. The fixed image formed on the eye lens through the action of the objective lens and beam splitter, is also the viewfinder image. The Albator line, dotted amber line framing the fixed image, is formed by light passing through the sliding mask assembly. The sliding mask assembly is comprised of two movable masks which are linked together. As the camera is focused from infinity to 3½ feet, the Albator line contracts, to compensate for the reduced image size, and moves down and to the left to compensate for parallax. As the camera is focused, the following actions take place in the viewfinder.

(1) Light passes through the frosted glass and sliding mask assembly to form the Albator image.

(2) The Albator image is projected to the edge of the movable image aperture plate and reflected through the outer edge of the amber colored magnifying frame.

(3) After passing through the magnifying frame, the Albator image is reflected off the beam splitter onto the eye lens.

1-10. Electrical Circuits (fig. 1-7)

a. Shutter Circuit. Prior to taking a picture, the operator must first set the FILM SPEED dial of the aperture wheel and lighting selector control. This action closes certain contacts of light selector switch S5, located on the aperture wheel. The contact selected is determined by the position of the aperture wheel, which in turn is a function of the combined operation of the aperture wheel and lighting selector control. The closed contacts of S3 connect one of the four RC timing circuits (C1 through C4 and R4 through R8) in series with photocell V1. When the shutter is cocked battery B1 is not connected. Depressing the shutter release button causes the shutter release tip to close battery switch S1, applying battery B1 power to the magnet L1 hold and capacitor bypass circuits. In the magnet hold circuit, current flows from the positive (+) side of the battery, through battery switch S1 to one side of the coil of electromagnet L1, and through variable resistor R1 to the base of transistor Q2. As soon as the current at the base of Q2 is high enough to trigger Q2, current flows through the coil of electromagnet L1, the collector and emitter of Q2, and potentiometer R3 to the negative (-) side of the battery. The energized electromagnet holds the closing blade in its open position. In the capacitor bypass circuit, current flows from the positive side of the battery, through battery switch S1, photocell V1, resistor R6 and timing switch S2, to the negative side of the battery. Timing switch S2 bypasses the timing capacitors (C1 through C4) and resistors (R4, R5, R7, R8). Shortly after closing battery switch S1, the shutter release tip trips the slide latch releasing the opening blade and opening timing switch S2. The film is now being exposed to light, and the timing circuit is brought into operation. Opening timing switch S2 breaks the capacitor bypass circuit and the battery current is applied to timing capacitor C1, and through the applicable contacts of light selector switch S5 to the previously selected combination of timing capacitors (C2, C3, C4) and resistors (R4, R5, R7, R8). Current now flows from the positive side of the battery through battery switch S1, photocell V1, and the selected timing capacitors or capacitor/resistor combinations to the negative side of the battery. The selected capacitors now begin to charge at a rate determined by photocell V1. The photocell acts as a variable resistor which is controlled by the light shining on it. If the light shining on the photocell is bright, its resistance will be lower,

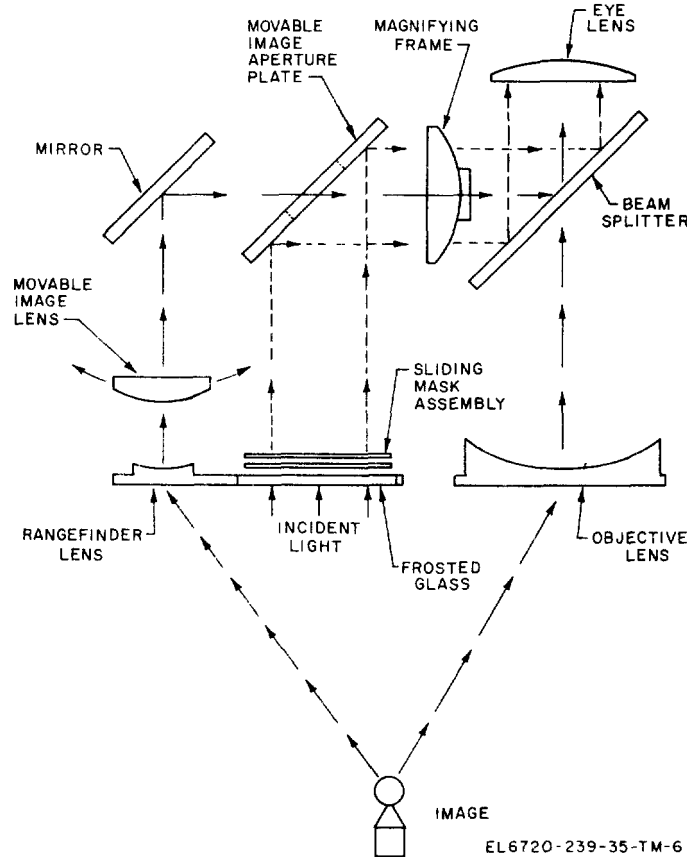


Figure 1-6. Finder assembly, optical schematic diagram.

and it will pass more current. When the selected capacitors are fully charged, the excess current is diverted through resistors R6 and R2 to the base of transistor Q1. When the current at the base of Q1 builds up to a high enough level, Q1 is triggered. Current now flows from the battery, through battery switch S1, variable resistor R1, the collector and emitter of Q1, and potentiometer R3 to the negative side of the battery. Since the collector of transistor Q1 and the base of transistor Q2 are connected (at the junction of resistor R1), Q1 draws the base current of Q2. When the current at the base of Q2 has been sufficiently reduced, Q2 is cut off. The magnet hold circuit is now broken, and electromagnet L1 is deenergized. The closing blade is released, and snaps closed. The light exposing the negative is cut off, and a picture has been taken. When the pressure on the shutter release button is removed, battery switch S1 opens, and all current is removed from the circuit. When the shutter is re-cocked, timing switch S2 is closed. The timing capacitors dis-

charge through timing switch S2, and the shutter circuits are ready for another exposure.

b. Shutter Flash Circuit. Operation of the shutter flash circuit is controlled by flash switches S3 and S4. When the shutter is uncocked, flash switch S4 is held closed by the make pin on the opening blade and flash switch S3 is held open. As the shutter is cocked, flash switch S4 is released, and opens. The break pin on the closing blade forces flash switch S3 to close. When the shutter is tripped, the opening blade slides forward, and the make pin strikes flash switch S4, forcing it to close. Flash switch S3 is held closed by the break pin on the closing blade which is in the grip of the electromagnet. Thus the flash circuit is completed and will cause an attached flashgun (c below) to fire. When the closing blade is released by the electromagnet, flash switch S3 opens, and breaks the flash circuit. Since the flash circuit is only closed while the film is being exposed, there is no danger of an accidental firing of the flashgun. When a flashgun is plugged into the shutter, flash

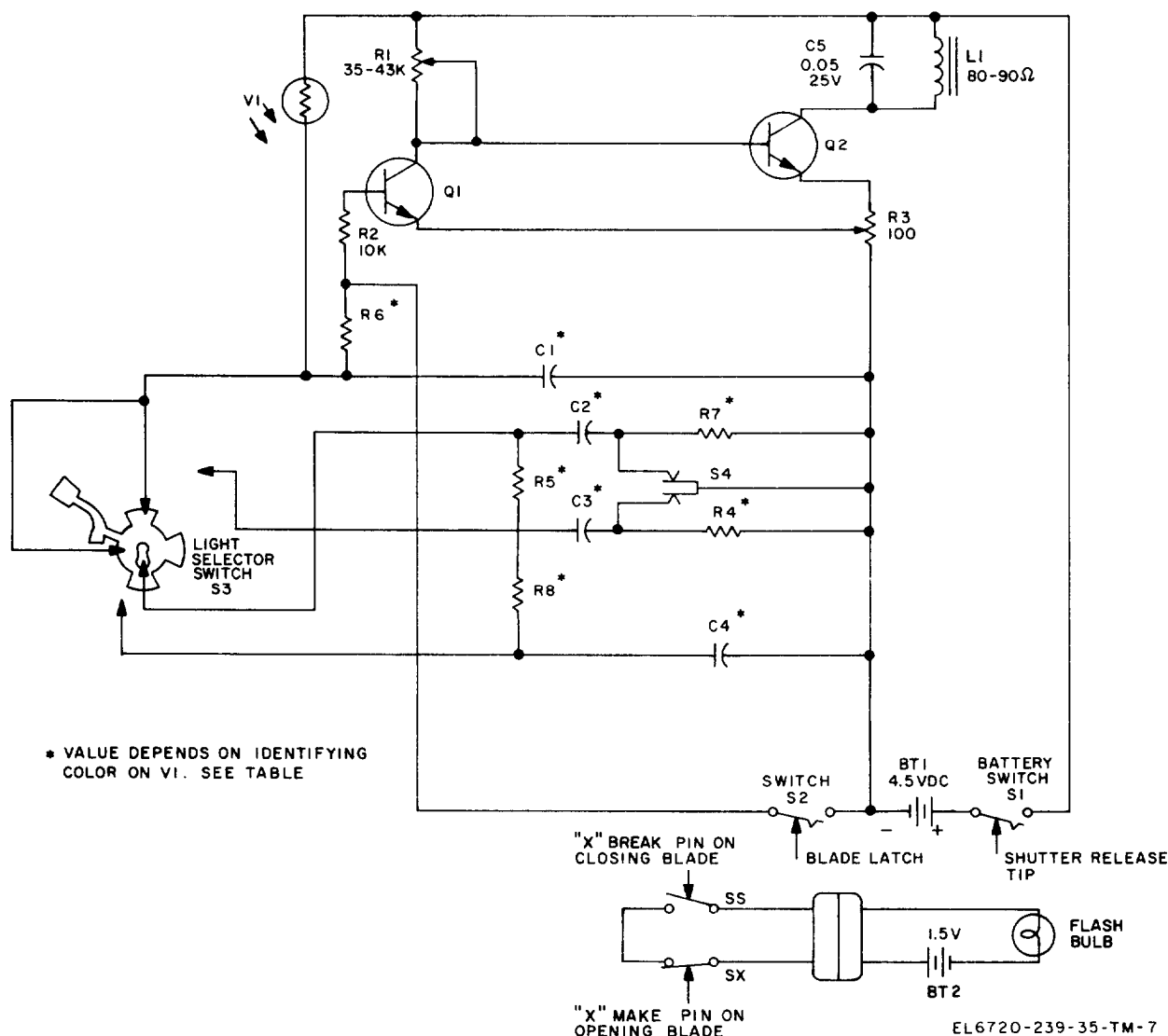


Figure 1-7. Shutter assembly, schematic diagram.

compensation switch S6 is forced open, placing resistors R4 and R7 into the timing circuit. These two resistors increase the charging time of capacitors C3 and C2. Without resistors R4 and R7 in the circuit, the intense light from the flashgun would cause photocell VI to pass too much current to the capacitors, causing them to charge too soon, and, in turn, close the shutter too soon.

c. *Flashgun.* The flashgun receives power from the self-contained 1.5 volt battery B2. Current flows from the positive (+) side of battery B2 to

the center terminal of the flashbulb socket. Current flows from the flashbulb socket side terminal, through the shutter connecting cable to the sync connector plug. When the flashgun is being used, the sync connector is plugged into the camera's shutter sync outlet, which is connected to the shutter flash circuit (b above). From the flash circuit, current flows through the shutter sync outlet, the sync connector plug and the shutter connecting cable to the negative (-) side of the flashgun battery B2.

CHAPTER 2

TROUBLESHOOTING

Section 1. GENERAL TROUBLESHOOTING INFORMATION

2-1. General Instructions

a. Troubleshooting at DS, GS, and depot maintenance levels include all the techniques outlined for organizational maintenance and any special or additional techniques required to isolate a defective part. The DS, GS, and depot maintenance procedures are not complete in themselves but supplement the procedures described in operator and organizational maintenance. The systematic troubleshooting procedure, which begins with the operational and sectionalization checks performed at an organizational level, must be completed by further localizing and isolating techniques. Paragraphs 2-5, 2-6, and 2-7 of this chapter provide unit troubleshooting procedures which must be performed at the DS, GS and depot maintenance levels.

b. Troubleshooting may be performed while the camera is fully assembled or, if necessary, after the assemblies have been removed. When trouble occurs, certain observations and operational checks can be made that will help to determine the source of the trouble. When troubleshooting is performed while the camera is fully assembled, it is usually done at the organizational level (TM 11-6720-239-12). Troubleshooting at the DS, GS, and depot levels is usually done with the assemblies removed. Paragraphs 2-3 and 2-4 describe the systematic procedures to be followed in order to isolate the cause of the trouble and correct the fault.

2-2. Organization of General Troubleshooting Procedures

a. General. The first step in servicing a defective camera set is to sectionalize the fault. Sectionalization means tracing the fault to the major assembly. Localization means tracing the fault to the defective subassembly. The third step, isolation, means tracing the fault to the defective part. Some faults, such as poor shutter response, or binding of mechanical subassemblies, 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 Check. After the trouble has been sectionalized, make a general operational test of the suspected assembly. The general operational test serves as a check of the sectionalizing test.

(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.

c. Localization. These tests listed 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 the following methods of trouble localization:

(1) *Troubleshooting charts.* The trouble symptoms listed in these charts will act as a guide in isolating the trouble in the camera component.

(2) *Optical tests.* Optical testing procedures will aid in localizing troubles within the optical system.

d. Isolation.

(1) *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 gentle tapping or jarring the equipment. Check the wiring in the camera set for damage and/or loose connections.

(2) *Optical troubles.* Troubles in optical systems can usually be located by visually inspecting the equipment following step-by-step testing procedure. Perform the checks (2-5 *b*) and compare the results obtained with the normal.

2-3. General Troubleshooting Procedures

a. General. The troubleshooting charts list the

symptoms of, and remedies for, the most common troubles that may be encountered in the camera.

b. Preliminary Check. Before disassembling any parts of the camera, conduct a thorough and practical test to determine the conditions that might exist. Examine the section believed to be causing the trouble and note the following, where applicable:

- (1) Response of shutter action.
- (2) Operational test for accuracy of the optical system.
- (3) Binding of mechanical components.

c. Sluggish or Stiff Operation. Sluggishness in the mechanism may be caused by foreign matter lodged in the mechanism. Stiffness in the operating controls may be caused by dust or dirt on the bearing surfaces.

2-4. Special Test Equipment and Tools Required

a. General. The chart in *b* below lists the special tools and test equipment required for troubleshooting Camera Set, Still Picture KS-101A. If a tool listed in the chart is not on hand, and the means for making it are available, refer to figure 4-3 for general information concerning such tools.

b. Special Tools and Test Equipment.

Tools and test equipment	Mfr part No.	Used to	Figure 4-3, key
Oscilloscope-Tektronics or equivalent	502A	Check proper shutter speed action	None

Tools and test equipment	Mfr part No.	Used to	Figure 4-3, key
Universal riveter	113931	Fasten metal rivets	A
Cover brace guide anvil	120509	Brace rivet end during fastening	B
RF./VF. pin inserter and remover	169451	Insert and remove rangefinder hinge pins	C
Pivot stud remover and inserter	169455	Affix and remove the pivot studs	D
Shutter screwdriver	169448	Remove shutter screws and cable release cover	E
Rear lens remover	169456	Unscrew rear lens and retainer	F
Front lens remover & focusing tool	169446	Expand bezel rings & retainers for lens removal	G
Shutter release bezel remover	169449	Remove bezel from camera body	H
Bellows pliers & pad	169447	Bend tabs on camera back frame	J
Focus bar rivet remover	169454	Remove offset rivets on focus bar assembly	K
Focus bar rivet inserter	169442	Insert & round focus bar rivets	L
Link pivot remover	159450	Remove link pivots from erecting assembly	M
Link pivot inserter	169489	Insert & round the link pivots	N
Go-no-Go gauge	169453B	Check proper travel distance of components Eg: shutter release button	P

Section II. TROUBLESHOOTING CHARTS

2-5. Camera Set Troubleshooting

a. General. Usually, the general area of trouble will be obvious from the normal operation of the

camera. Use the chart (*b* below) as a guide to help sectionalize or localize the trouble.

b. Camera Troubleshooting Chart.

Symptom	Probable trouble	Corrections
Bent, broken, or cracked parts. -----	Damage to an assembly -----	Refer to troubleshooting chart for assembly.
Bellows light leaks -----	Damaged bellows ----- Defective light seal _____	Replace bellows (para 3-7 and 3-14). Replace light seal. Refer to instructions for assembly in which obviously defective light seal is located.
Inoperative shutter _____	Dead or leaking battery Be_____ Corroded battery terminals _____ Defective shutter ----- _____	Replace B1. Clean battery terminals (para 3-10). Refer to shutter troubleshooting chart (para 2-6).
Inoperative flashgun --,-----	Dead or leaking battery Be-- _ . . _ . _ _ Defective flashgun -----	Replace battery B2. Refer to flashgun troubleshooting chart (para 2-5 <i>c</i>).
	Defective shutter -----	Refer to shutter troubleshooting chart (para 2-6).

<i>Symptom</i>	<i>Probable trouble</i>	<i>Corrections</i>
Incorrect focusing _____	Lens not properly focused _____	Collimate lens (para 4-7).
	Defective rangefinder mechanism in finder assembly.	Refer to finder assembly troubleshooting chart (para 2-7).

c. Flashgun Troubleshooting Chart.

<i>Symptom</i>	<i>Probable trouble</i>	<i>Corrections</i>
Open flash circuit . . . -----	Dirty or corroded battery contacts _____	Clean battery contacts (para 3-10).
	Broken or cold-soldered connection -----	Resolder defective connection.
	Defective or broken flash connector plug.	Replace flash connector plug.
	Defective flashbulb socket	Replace flashbulb socket.

2-6. Shutter Assembly Troubleshooting

a. General. If the shutter is performing erratically, make a complete visual inspection (para. 2-2) to determine the extent of the malfunction, and to correct minor faults. If the trouble persists

after the visual inspection and preliminary corrective measures have been completed, perform the complete operational test given in paragraph 4-5. Refer to the troubleshooting chart (*b* below) after performing the operation test.

b. Shutter Assembly Troubleshooting Chart.

<i>Symptom</i>	<i>Probable trouble</i>	<i>Corrections</i>	
Both blades close together on all FILM SPEED dial settings.	<i>a.</i> Rust or foreign matter on magnet, keeper or blades.	<i>a.</i> Clean or replace dirty or rusted components (para 3-10).	
	<i>b.</i> Magnet and keeper misaligned -----	<i>b.</i> Adjust magnet to realign it with the keeper (para 3-19).	
	<i>c.</i> Bent cocking latch pin _____	<i>c.</i> Straighten pin or replace cocking latch para 3-12 and 3-19).	
	<i>d.</i> Switch S1 or S2 out of adjustment---	<i>d.</i> Adjust switch S1 or S2 (para 3-19).	
	<i>e.</i> Photocell V1 shorted. -. _____	<i>e.</i> Replace photocell V1 (para 3-19 and 3-20).	
	<i>f.</i> Open switch S1 _____	<i>f.</i> Clean switch contacts (para 3-10).	
	<i>g.</i> Open circuit between white battery contact and S1 contact or between S1 contact and magnet coil.	<i>g.</i> String a jumper wire between the affected contacts.	
	<i>h.</i> Open or defective magnet coil -----	<i>h.</i> Replace magnet coil (para 3-6).	
	<i>i.</i> Open circuit between bottom magnet contact and Q2 collector or between top magnet contact and positive (+) photocell contact.	<i>i.</i> String jumper wires between affected contacts.	
	<i>j.</i> Open circuit between screw side of switch S2 and common contact of switch S6 or between S2 breaker and R6-R2 common point.	<i>j.</i> String jumper wire between affected contacts.	
	<i>k.</i> Defective transistor Q1 or Q2 -----	<i>k.</i> Replace Q2.	
	<i>l.</i> Defective variable resistor R1 potentiometer R3.	<i>l.</i> Replace R1 or R3.	
	Closing blade stays open on all speeds---	<i>a.</i> Timing switch S2 out of adjustment.	<i>a.</i> Adjust timing switch S2. (para 3-19).
		<i>b.</i> Second blade spring disengaged -----	<i>b.</i> Reattach spring to blade.
<i>c.</i> Defective transistor Q1 or shorted capacitor C1.		<i>c.</i> Replace transistor Q1 or capacitor C1 (para 3-6).	
<i>d.</i> Open or cold-soldered Resistor R6 or R2.		<i>d.</i> Resolder or replace resistor R6 or R2.	
<i>e.</i> Defective potentiometer R3 -----		<i>e.</i> Replace potentiometer R3.	
<i>f.</i> Open circuit between Q1 emitter and R3 wiper or Q1 collector and resistor R1 or between resistor R1 and photocell V1.		<i>f.</i> String jumper wire between affected contacts.	

<i>Symptom</i>	<i>Probable trouble</i>	<i>Corrections</i>
Blade stays open on all speeds except 3000 when lighting selector control is set to left (dull) position.	Defective capacitor C2 . -. -----	Replace capacitor C2.
150 Dull very fast, on 75 Dull one stop fast.	Open circuit between positive (+) C2 contact and selector switch (S5), C2 contact. Dirty or defective selector switch S5 --	Repair connection between affected contacts. Clean switch rotor and contacts, adjust contacts to touch rotor.
All speeds either too fast or too slow. -. .	Defective capacitor C2 Incorrect trigger voltage --	Replace capacitor C2 (para 3-6). Adjust potentiometer R3 or replace photocell V1 or both. (para 3-19 and 3-20).
FILM SPEED dial of aperture wheel 150 or 300 dull too fast or too slow or erratic.	Switch S2 out of adjustment- Mechanical binding of blades ----- Mechanical binding of cocking slide--- Rust or foreign matter on magnet or keeper. Dirty switch S6 contacts .- .	Adjust S2 (para 3-19). Replace blades. (para 3-6). Lubricate cocking slide with lubricating wax. Clean magnet and keeper.
75 dull too fast, all other speeds normal.	Open circuit between positive (+) C3 contact and selector switch (S5) C3 contact. Defective capacitor C3 ----- Open Contact between S4 center contact and S4 contact connected to R4. Open circuit in selector switch S5 between C3 contact and common contact.	Clean S6 contacts with fine file. String jumper wire between affected contacts. Replace capacitor C3 (para 3-6). Clean and adjust S4 contacts. Clean and adjust switch S3 contacts.
75 dull too slow . . ____	Defective capacitor C3 __	Replace capacitor C3. (para 3-6).
3000 dull too fast or too slow- ----	Defective capacitor C1 ____	Replace capacitor C1. (para 3-6).
Blades close together on 3000 dull only.	Defective Photocell V1 ----- Cold-soldered capacitor C1 -----	Replace Photocell V1. (para 3-6). Resolder capacitor C1.
F-stop meter does not repeat within ±0.15 F-stops after inserting and removing flash plug.	Defective capacitor C1 __ -- Dirty or maladjusted switch S6 _	Replace capacitor C1. (para 3-6). Clean and adjust switch S6.
F-stop meter varies from specified ¼ to ½ inch rise with flash plug inserted.	Defective or cold-soldered resistor R4 or R7.	Replace or resolder resistor R4 or R7, or both.
Flash test bulb does not fire_ .	Open connection in flash circuit- Dirty or defective flash switches S3 and or S4.	String jumper wires between flash safety switch and outside contact of flash jack or between flash switch SX and inside contact of flash, jack, or both. Clean or replace flash switches S3 and/or S4 as required.
75/50 dull does not conform to specifications.	Incorrect trigger voltage _____	Adjust potentiometer R3 or replace photocell, or both, (para 3-19).
75/50 dull 15 only one stop fast	a. Defective capacitor C2 or C3 --- . b. Open circuits between C2 or C3 and their respective S3 contacts on light selector switch S5.	a. Replace C2 or C3 (para 3-6). b. String jumper wires between C2 or C3 and their respective S3 contacts on switch S5.
75/50 bright and 75/300 bright too fast or too slow.	Defective capacitor C4 .. ---- ____ -----	Replace capacitor C4. (para 3-6).
75/50 bright and 75/800 bright too fast only.	a. Defective capacitor C4 _- --- _____ b. Open circuit between positive (+) side of C4 and its contact on light selector switch S5.	Replace capacitor C4. (para 3-6). String jumper wires between positive (+) side of C4 and its contact on switch S5.
75/800 dull too fast or too slow -----	Timing switch S2 out of adjustment_ ---	Adjust timing switch S2. (para 3-19).

2-7. Finder Assembly Troubleshooting

a. *General.* Most of the finder assembly troubles will be obvious and can be localized during normal

operation. Use the chart (b below) as a guide in isolating trouble.

b. *Finder Assembly Troubleshooting Chart.*

<i>Symptom</i>	<i>Probable cause</i>	<i>Correction</i>
Viewfinder image, superimposed image, or albaton image missing.	Broken optical component -----	Replace broken component (para 3-9).
Line across image -----	Cracked optical component -----	Replace damaged component.
Rangefinder and movable mask inoperative.	a. Broken cam lever ----- b. Broken cam spring -----	a. Replace cam lever (para 3-9). b. Replace cam spring (para 3-9).
Rangefinder only inoperative	Broken cantilever, cantilever spring, tunet, or tunet spring.	Replace broken component.
Mask assembly only inoperative -----	a. Sliding mask lever or spring broken-- b. Bent movable mask -----	a. Replace broken component (para 3-9). b. Replace movable mask.

CHAPTER 3

PARTS REPLACEMENTS AND REPAIRS

Section I. DISASSEMBLY

3-1. Parts Replacement Techniques

The parts in the camera body, bellows assembly, and back cover can be easily replaced without special procedures. The finder and shutter assemblies are much more fragile and must be handled accordingly.

a. When working on the finder assembly, be extra careful to avoid damage to lenses and polished mirror surfaces. Many parts in the finder assembly are held in place by epoxy. Be sure that all epoxy has been removed before attempting to remove a part; check carefully for pieces of epoxy on contact surfaces before replacing any parts.

b. When disassembling an assembly or subassembly, group associated mechanical parts, hardware, and springs together. To facilitate reassembly procedures, arrange the parts in the order in which they were removed.

c. The shutter is transistorized. Use a pencil type soldering iron with a 25-watt maximum capacity. If the iron must be used with ac, use an isolating transformer between the iron and the line. Before using a soldering iron, check the iron for shorts to the tip. Do not use a soldering gun or damaging voltages may be induced in circuit components. Use a heat sink (such as long nosed pliers) when soldering transistor leads.

d. Several plastic parts are held in place by heat seals. To attach or remove these parts, use a pencil type soldering as mentioned in the preceding paragraph.

CAUTION

Excessive heat will cause distortion of plastic parts.

3-2. Considerations Before Disassembly and Reassembly

Disassemble the equipment only as far as it is necessary to reach a defective part. Use the troubleshooting procedures (chap 2) to trace the trou-

ble to an assembly and then refer to the paragraph containing disassembly instructions for the defective assembly.

Complete disassembly of the equipment is rarely required. However, the complete disassembly procedure is given in paragraphs 3-2 through 3-9 for use when needed. Reassembly procedures are given in paragraphs 3-12 through 3-18. Disassemble cemented, heat sealed, and/or riveted parts only when it is absolutely necessary. Be extremely careful, when performing this type of disassembly, not to damage adjacent parts.

a. Base Block and Electronic Block Mounting Assemblies. The base block and electronic mounting block assemblies, located inside the shutter assembly, are accessible while the shutter assembly is attached to the camera. To gain access to the base block and electronic mounting block assembly, refer to paragraphs 3-5 and 3-6.

b. Back Cover. Most back cover repairs can be made while the back cover is attached to the camera body.

3-3. Removing Camera Subassemblies (fig. 3-1)

a. Before disassembly, open the camera as follows :

(1) Open the camera cover (1) by gently lifting the cover flap and allow the cover to hang down from body assembly (2).

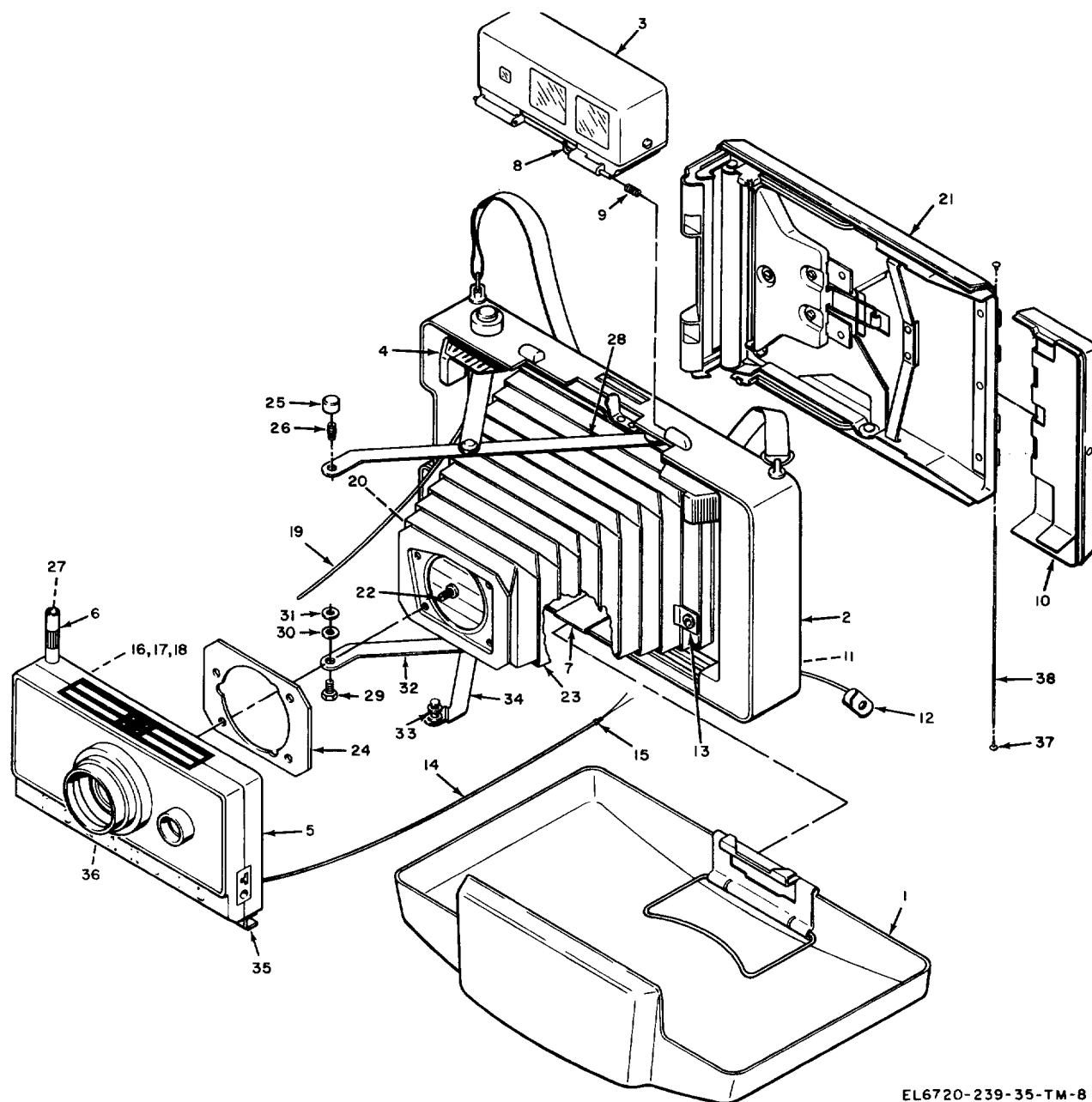
(2) Raise the finder assembly (3) to its upright position.

(3) Gently lift up on the focus button (right) (4) to release the shutter assembly (5) from the body assembly (2).

(4) Extend the bellows assembly (23) by pulling the shutter shaft sleeve (6) outward.

b. Lift the mounting clip hinge (7) and pull off front cover assembly (1).

c. Fold the finder assembly (3) down.



EL6720-239-35-TM-8

- | | |
|--|-------------------------------------|
| 1 Front cover assembly (camera cover) (All) | 20 Cable release wire tab (MP3) |
| 2 Body assembly (A4) | 21 Rear door assembly (A15) |
| 3 Rangefinder/viewfinder (finder) assembly (A32) | 22 Bellows screws (H1) |
| 4 Focus button (right) (MP28) | 23 Bellows assembly (bellows) (A2) |
| 5 Shutter assembly (A42) | 24 Front frame light seal (MP1) |
| 6 Shutter shaft sleeve (MP194) | 25 Detent (MP195) |
| 7 Mounting clip hinge (MP37) | 26 Detent stud (H145) |
| 8 Hinge pin-left (H62) | 27 Shutter shaft (MP188) |
| 9 Rangefinder body spring (H144) | 28 Inner frame top (MP31) |
| 10 Rear cover assembly (A15) | 29 Shutter shaft screw (H147) |
| 11 Battery interlock assembly (A27) | 30 Bowed washer (H144) |
| 12 Positive battery terminal (BT1-1) | 31 Flat washer (H146) |
| 13 Flash wire tab assembly (A3) | 32 Inner frame bottom (MP15) |
| 14 Battery wire assembly (A58) | 33 Shutter mount spring rivet (H22) |
| 15 Banding clip (H44) | 34 U-frame assembly (A9) |
| 16 Release cover screws (H137) | 35 Shutter mount (MP186) |
| 17 Shutter fastening screws (H138) | 36 Shutter mount spring (MP187) |
| 18 Cable release cover (MP185) | 37 Hinge plug (H29) |
| 19 Shutter release casing | 38 Hinge pin (H28) |

Figure 3-1. Camera set disassembly.

d. Using the rangefinder/viewfinder remover and inserter tool, disengage the left hinge pin (8).

e. Slide the finder assembly to the left and lift it off of the body assembly (2).

f. The rangefinder body spring (9) is now disengaged and can be removed.

g. Open the rear cover assembly (10), slightly collapse the bellows assembly by pressing the inner frame top (28) down and pushing inward on the shutter assembly (5).

h. Gently pull the positive battery terminal wire (12) (white) and simultaneously work the battery wire assembly (14) through the body assembly (2) into the battery compartment until the banding clip (15) is accessible. Remove the banding clip (15) from the wire end.

i. Unsolder the negative battery terminal wire (black) from the battery interlock assembly (11).

j. Clip -the white wire of the battery wire assembly (14) approximately 1½ inches from the positive battery terminal (12). Pull the battery wire assembly (14) through the hole in the body assembly (2) and the flash wire tab assemblies (13).

k. Loosen the two release cover screws (16) and the one shutter fastening screw (17) enough to slip the shutter release casing (19) from under the cable release cover (18).

l. Pull the shutter release casing (19) through the cable release wire tab (20).

m. Open the rear door assembly (21) and remove the four bellows screws (22) which secure the bellows assembly (23) to the shutter assembly (5).

n. The front frame light seal (24) is now loose and should be removed.

o. Remove the detent (25) and the detent stud (26) from the shutter shaft (27).

p. Remove the inner frame top (28) from the shutter shaft (27).

q. Remove the shutter shaft screw (29) and move the inner frame bottom (32) to one side. Bowed washer (30) and flat washer (31) are now loose and can be removed.

r. Slide the shutter mount spring rivet (33) along the slot in shutter mount (35) to elongated hole.

s. Slip off shutter mount spring (36) and drop the U-frame assembly (34) through the elongated hole in the shutter mount (35).

t. The shutter assembly (5) is now separated from the body assembly (2).

u. Remove the two hinge plugs (37).

v. Push out the hinge pin (38) and lift off the rear door assembly (21) and the rear cover assembly (10).

3-4. Disassembling the Front Cover (fig. 3-2)

a. Remove the two latch plate screws (1) and lift off the latch plate (2).

b. Using a 1/16-inch drift pin, push out the mounting plate hinge pin (3) and lift off the mounting clip hinge (4).

c. If it is necessary to remove the mounting plate hinge (8), grasp the clip (6) to hold clip spring (7) in place and remove two mounting plate hinge rivets (5). Carefully lift the clip (6), the clip spring (7), and the mounting plate hinge (8) off of the front cover assembly (9).

3-5. Disassembling the Shutter Assembly (fig. 3-3)

a. Remove the two shutter fastening screws (1) and the one long shutter fastening screw (2) ; carefully separate the shutter front casting assembly (3) from the shutter rear casting assembly (4).

b. Carefully peel off the top etch plate (5).

c. Remove the two base block mounting screws (6&7) and the two module mounting screws (8).

d. Lift off the base block and electronic mounting block assembly (9) and front casting light seal (10).

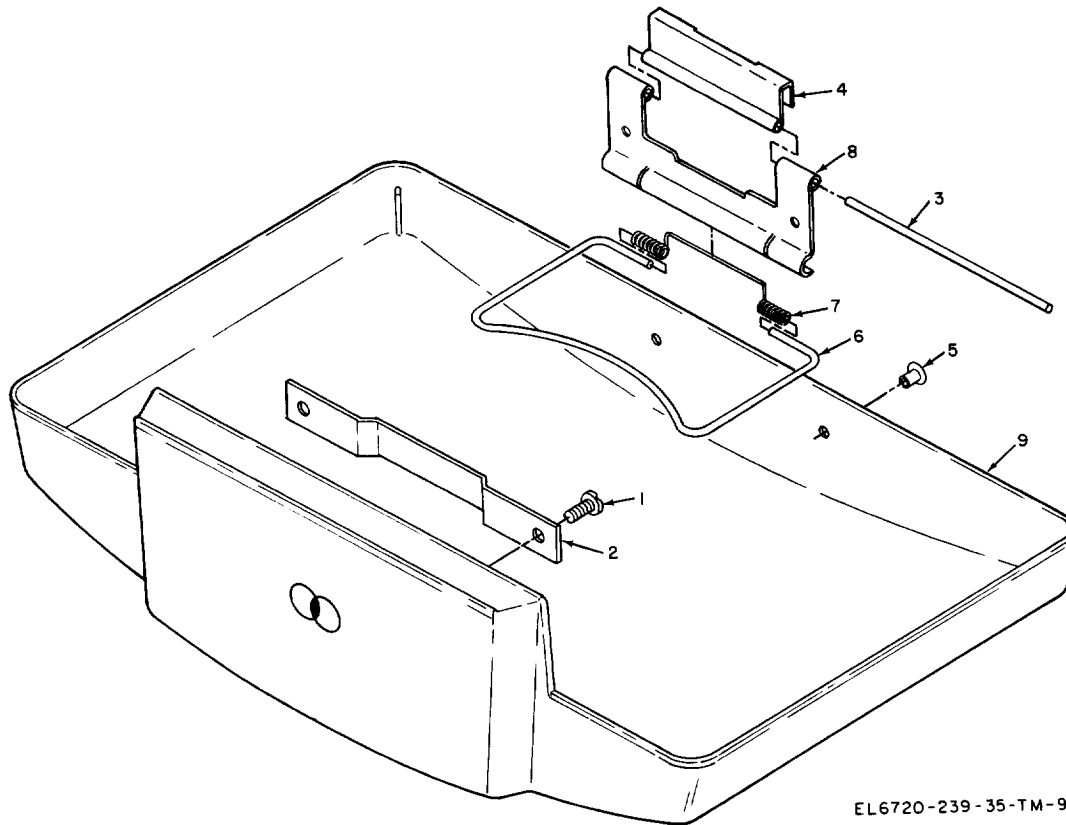
e. Insert a small jeweler's screwdriver over the lip of the shutter front casting assembly (3) and under the edge of the front decorative plate (11).

f. Carefully pry off the front decorative plate (11).

g. Lift off the bezel friction spring (12) and the bezel assembly (13 through 17).

h. Set the bezel assembly (13 through 17) face down on a table and hold down firmly.

i. Using a screwdriver, pry up the three tabs on the bezel cap (13).



EL6720-239-35-TM-9

- 1 Latch plate screws (H27)
- 2 Latch plate (MP39)
- 3 Mount plate hinge pin (H25)
- 4 Mounting clip hinge (MP37)
- 5 Mounting plate hinge rivet (H26)

- 6 Clip (H24)
- 7 Clip spring (MP36)
- 8 Mounting plate hinge (MP38)
- 9 Front cover assembly (All)

Figure 3-2. Front cover disassembly.

j. Slowly release the tension on the bezel spring (16) and lift bezel cap (13), the center ring (14), the outer ring (15), and the bezel spring (16) off of the bezel (17).

k. Using the front lens remover and focusing tool, unscrew the front lens mount assembly (18).

l. Insert a small jeweler's screwdriver into the serrations on the inside of the cell lens retainer (19) and carefully pry up.

m. Remove the cell lens (20).

n. Carefully pry off the retaining ring (21) and remove the actuator arm spring (22).

o. If necessary drill out the two shoulder rivets (23) and remove the actuator arm pivot pin (24).

p. Lift off the cell wedge (25) and the flash filter actuator assembly (26).

q. If it is necessary to remove the cell lens mount (27), use a soldering iron, soften the plas-

tic seal on the cell lens mount (27) and lift off the cell lens mount (27) and the wave washer (28).

r. Lift out the shutter shaft sleeve (29) and the shutter shaft (30), The shutter mount spring (31) will drop off.

s. Remove the two release cover screws (32) and remove the cable release cover (33).

t. If it is necessary to remove the release block retainer (34) and the shutter release block (35) use a soldering iron and carefully soften the plastic heat seal on the shutter release block (35).

u. Remove the shutter gasket (36) and the electronic mounting board insulator (37).

v. Using the rear lens remover tool, carefully remove the lens retainer (38) and the rear positive lens (39).

w. Remove the shutter mount screw (40) and lift off the shutter mount (41).

3-6. Disassembling the Base Block and Electronic Mounting Block Assemblies

a. *Base Block Assembly (fig. 3-4)*. Separate the base block assembly from the electronic mounting block assembly as follows:

(1) Unsolder the flexible circuit assembly (17, fig. 3-5) from the battery switch S1 contacts (56 and 58, fig. 3-4), magnet terminals (59), timing switch S2 contacts (65 and 70), and the flash contact (72).

(2) Remove the retaining rings (1 and 2) securing the lighting selector assembly (readout actuator assembly (3 through 13)) and the aperture wheel assembly (15). Lift off the readout actuator assembly.

(3) If necessary, remove the two rivets (9) and lift off the aperture detent (10) and aperture detent block (11).

(4) Remove the scene selector slider pivot (12) ; separate the scene selector slider (3), the aperture detent mounting arm (13), and the aperture wheel spacer (14).

(5) Remove the aperture wheel adjusting screw (7) and lift off the lockwasher (8) and the readout actuator (6).

(6) Remove the two screws (18) and lift off front light baffle (19), aperture wheel assembly (15), and the rear light baffle (20).

(7) If necessary carefully pry the capacitor switch (16) off of the aperture wheel (15).

(8) Remove the retaining ring (21) and disconnect the cocking arm spring (23). Lift off the cocking arm (22), the cocking arm spring (23), the cocking arm bushing (24) and, if necessary, the cocking arm pivot (25).

(9) Manually cock the shutter by moving the cocking slide (32) to the left.

(10) Remove the stop bracket cap (26) and if necessary, using a 1/16-inch drift pin, drive out the rivet (27).

(11) Slide out the closing blade stop bracket assembly (28). If necessary the stop block (30) and the shock pad (29), which are glued to the closing blade stop bracket assembly (28) may now be removed.

(12) Trip the shutter; remove the retaining pin (31) and lift out the cocking slide (32). Component parts of the cocking slide assembly (32-39) can now be disassembled as necessary.

(13) Remove the oval head rivet (40), the blade spring retaining washer (41), and the opening blade spring (42).

(14) Manually lowering the blade latch (51) , raise the flash make "X" contact (73) and slide the opening blade (43) and the closing blade (44) out of the base block (98).

(15) After disengaging the cocking slide latch spring (46) , carefully remove the retaining ring (45) and the cocking slide latch spring (46) ; lift off the cocking slide latch (47) and attached cocking slide latch bushing (48). If necessary the cocking slide latch pivot (49) can now be removed.

(16) Disengage the blade latch spring (53). Carefully remove the retaining ring (50) and lift off the blade latch (51) (with attached blade latch bushing (52), the blade latch spring (53), and, if necessary, the blade latch pivot (54)).

(17) If necessary drive out the oval head rivet (55) and separate the top contact (56), the switch insulator (57), and the bottom contact (58).

(18) Remove the two magnet screws (59) and magnet nuts (60). Lift off the assembled parts (61, 62, and 63). If necessary, carefully bend one of the bobbin terminals (61) and slide the bobbin (63) off of the magnet (62).

(19) Carefully remove the oval head rivet (64) and lift off the breaker contact (65).

(20) Unsolder the electrical connection on the adjustable contact (70) and disengage the adjustable contact spring (67). Remove the insulator (66) and the adjustable contact spring (67), and the flat insulator (68). If necessary drive out the rivet (69) and remove the adjustable contact (70) and the adjustable contact screw (71).

(21) If necessary, remove the flash contact-break (72).

(22) If necessary, remove the contact (73).

(23) If necessary, remove the connector strip insulator (74) and the connector strip (75).

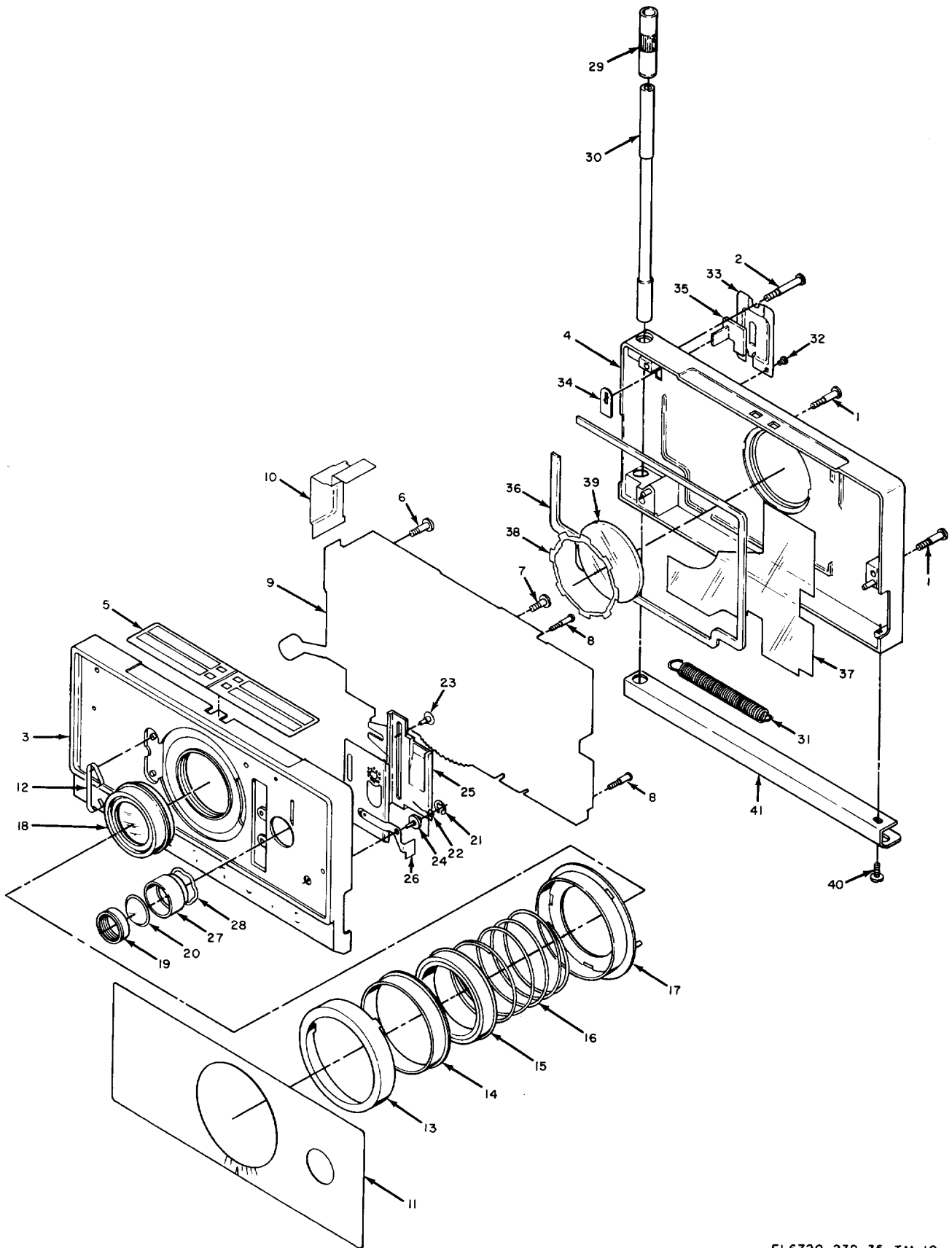
(24) If necessary, remove the oval head rivets (76) and lift off the capacitor contact light seal (77), the capacitor outer-contact (78), and the insulator (79).

(25) If necessary, remove the bumper eyelet (80) and the bumper (81).

(26) If necessary, remove the rivets (82) and lift off the spring adjustment stop (83)

(27) Drive out the two readout indicator slide pins (84) and remove the readout indicator (85) and readout indicator spring (86).

(28) If necessary, remove the oval head rivet (87) and lift off the blade spring retaining washer (88) and the closing blade spring (89).



EL6720-239-35-TM-10

Figure 3-3. Shutter disassembly.

1 Shutter fastening screws (H138)	21 Retaining ring (H118)
2 Shutter fastening screw (long) (H139)	22 Actuator arm spring (MP180)
3 Shutter front casting assembly (A61)	23 Shoulder rivets (H134)
4 Shutter rear casting assembly (A65)	24 Actuator arm pivot pin (MP179)
5 Top etch plate (MP115)	25 Cell wedge (MP181)
6 Base block mounting screw (H135)	26 Flash filter actuator assembly (A63)
7 Base block mounting screw (short) (H136)	27 Cell lens mount (MP170)
8 Module mounting screws (H132)	28 Wave washer (H133)
9 Base block and electronic mounting block assembly (A43)	29 Shutter shaft sleeve (MP194)
10 Front casting light seal (MP114)	30 Shutter shaft (MP188)
11 Front decorative plate (MP173)	31 Shutter mount spring (MP187)
12 Bezel friction spring (MP172)	32 Release cover screws (H137)
13 Bezel cap (MP175)	33 Cable release cover (MP185)
14 Center ring (MP177)	34 Release block retainer (H142)
15 Outer ring (MP178)	35 Shutter release block (MP193)
16 Bezel spring (MP176)	36 Shutter gasket (H143)
17 Bezel (MP174)	37 Electronic mounting board insulator (E16)
18. Front lens mount assembly (A64)	38 Lens retainer (MP189)
19 Cell lens retainer (MP171)	39 Rear positive lens (MP190)
20 Cell lens (MP169)	40 Shutter mount screw (H140)
	41 Shutter mount (MP186)

Figure 3-3. Shutter disassembly-Continued.

(29) If necessary, drill out the rivets (90) and lift off the actuator detent spring (91).

(30) If necessary, remove the actuator detent pin (92) and lift off the actuator detent roller (93).

(31) If necessary, remove the oval head rivet (94) and lift off the capacitor inner contact (95).

(32) If necessary, remove the oval head rivet (96) and lift the capacitor common contact away from base block (98).

b. Electronic Mounting Block Assembly (fig. 3-5). All electronic components are readily accessible, and can be removed individually without special techniques. When soldering or unsoldering components, observe the precautions listed in paragraph 3-1 *c.* To completely disassemble the electronic mounting block assembly, proceed as follows :

(1) Carefully unsolder and remove the electronic components (1 through 16).

(2) Lift off the flexible circuit assembly (17), flexible circuit insulator (18), and the electronic mounting board insulator (19).

(3) If necessary, remove the three oval head rivets (20), and lift the flash compensating common contact (21), flash compensating upper contact (22), and flash compensating lower contact (23) from electronic mounting block (24).

3-7. Disassembling the Body/Bellows Assembly (fig. 3-6)

a. Disassembly, Stage 1.

(1) Using bellows pliers tool, lift up the 14 tabs on the back frame of the bellows assembly (1) and lift the bellows assembly off of the body assembly (2).

(2) The bellows light seat (3) is now loose, and can be removed.

(3) Using the shutter release bezel remover tool pull off the shutter release bezel (4).

(4) Lift out the shutter release bushing assembly (5) and outer frame top spacer (6).

(5) Cut off the shutter release tip (7).

(6) Lift off the shutter release knob (8) and the shutter return spring (9).

(7) Using the link pivot remover tool, remove the two link pivots (12) and remove two link pivot spacers (13) and U-frame assembly (14).

(8) Lift off the outer frame bottom spacer (10) and the spring washer (11).

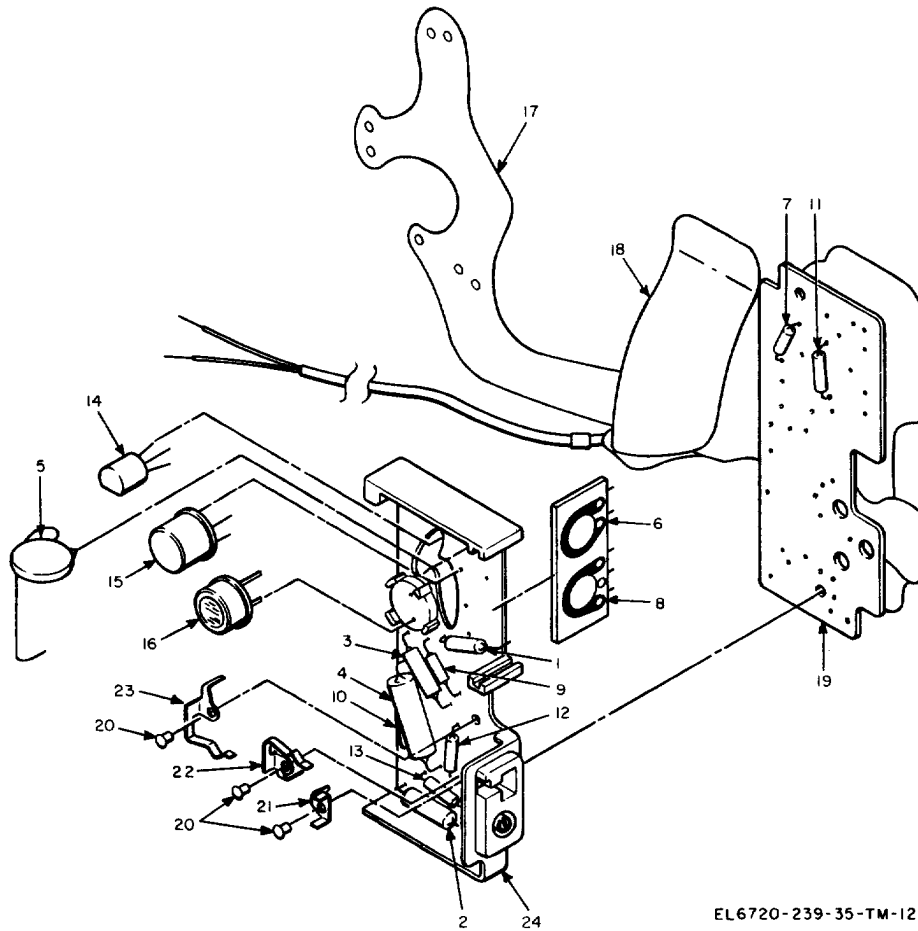
(9) Pivot the inner frame bottom (15) to the right and lift it out.

(10) If necessary, drill out the rivet (16) and remove track guide (17).

(11) If necessary, drill out the brake rivet (23) and remove the brake washer (24), the brake sleeve (25), and the brake spring (26).

Figure 3-4. Baseblock disassembly.

Located in back of manual.



EL6720-239-35-TM-12

- | | |
|--------------------------|---|
| 1 Capacitor (C1) | 13 Resistor (R8) |
| 2 Capacitor (C2) | 14 Transistor (Q1) |
| 3 Capacitor (C3) | 15 Transistor (Q2) |
| 4 Capacitor (C4) | 16 Photocell (V1) |
| 5 Capacitor (C5) | 17 Flexible circuit assembly (A60) |
| 6 Variable resistor (R1) | 18 Flexible circuit insulator (P/O A60) |
| 7 Resistor (R2) | 19 Electronic mounting board insulator (E16) |
| 8 Variable resistor (R3) | 20 Oval head rivets |
| 9 Resistor (R4) | 21 Flash compensating common-contact (P/O S6) |
| 10 Resistor (R5) | 22 Flash compensating upper-contact (P/O S6) |
| 11 Resistor (R6) | 23 Flash compensating lower-contact (P/O S6) |
| 12 Resistor (R7) | 24 Electronic mounting block (MP167) |

Figure 3-5. Electronic mounting block disassembly

(12) Drill out the two focus bar rivets (18), and lift out the focus bar assembly (27 through 38).

(13) Remove the right focus bar sleeve (19) and the right focus bar washer (20).

(14) Remove the left focus bar sleeve (21) and the left focus bar bushing (22).

(15) Slide off the detent slide spring (27).

(16) If necessary, drill out the detent slide

rivet (28) and remove the detent slide (29) and the inner frame top (30).

(17) If it is necessary to remove the right and left focus buttons (34 and 35), lift off the zone focus plate (31) and focus bar plate (32) and drill out the two focus buttons rivets (33).

(18) If necessary, drill out the two rivets (36) and lift the focus bar bracket (37) off of the focus bar (38).

Figure 3-6. Body/Bellows disassembly.

Located in back of manual.

(19) If necessary, carefully pull off the two flash wire tab assemblies (39) and the one cable release wire tab assembly (40).

(20) If necessary, drill out the shutter mount spring rivet (41) and remove the shutter mount bushing (42).

b. Disassembly, Stage 2 (fig. 3-6).

(1) Using a screwdriver, carefully push out the slot cover (43).

(2) Remove the two D-rings (44), and lift off the neck strap assembly (45).

(3) Remove the magnet pivot (46), and lift off the two pole pieces (47), the magnet (48), and the magnet spring (49).

(4) Disconnect and remove the battery (50) ; remove the battery clip screw (51) and lift out the battery clip (52).

(5) Remove the rear cover latch screw (53) and lift out the rear cover latch (54) and the center retainer (55).

(6) Remove the two guard fasteners (56), and lift off the left guard (57).

(7) If necessary, drill out the spring contact rivet (58) and lift out the battery interlock assembly (59).

(8) If necessary, drill out the four rivets (64) and lift off the light seal assembly (65).

(9) If necessary drill out the three rivets (66), and lift off the stationary hinge (67).

(10) If necessary, drill out the two spring stop rivets (60) and lift off the left and right fillers (61 and 62) and spring stop (63).

(11) Using pin punch, push out the right guard (68).

(12) Remove the screw (69) ; drop the release arm (70) down and remove it.

(13) Lift out the release latch (71) and the release latch spring (72).

(14) Remove the latch pivot (73) from the release latch (71).

(15) Remove the two tab strip bar screws (74) and lift off the tab strip bar (75).

(16) If necessary drill out the outer frame bottom pivot pin (76), the two strap lugs (77), and the two pivot pads (78).

(17) If necessary drill out the two rivets (79), and lift off the mounting plate spring (80).

3-8. Disassembling the Back Cover
(fig. 3-7)

a. Using the pivot stud remover and inserter

tool, remove the two exit door pivot studs (1). Remove the spring (2) and lift off the exit door assembly (3).

b. Drill out the four rivets (4), and lift off the roll latch (5) and the rear door (6).

c. Remove the three rivets (7), and lift off the rear door hinge (8).

d. Remove the two rivets (9), and lift off the door spring (10).

e. Remove the two rivets (11), and detach the two roll frame springs (12).

f. Remove the three screws (13). Twist the slide block cover (14) one-half turn in either direction and lift it off. Lift off the slide block link (15).

g. Remove the camera body shaft (16) and lift off the two springs (17), and the edge control bar assembly (18).

h. Release and remove the slide block spring (19) and the slide block assembly (20).

i. Remove the four rivets (21) and lift off the two side plates (22).

j. Remove the three rivet (23) and lift off the exit cover frame assembly (24).

k. Detach and remove the rear roller (25) as follows :

(1) Grasp the tab on roller support frame (32) with the left hand, with the thumbs resting against the front roller (26).

(2) Grasp the rear roller (25) with the right hand and pull it to the front and up, to release and remove the rear roller.

l. Detach and remove the front roller (26) as follows :

(1) Grasp the front roller (26) and the left front roller support (27).

(2) Pull the front roller and the left front roller support in opposite directions, applying equal force in both directions. Lift the end of the front roller and its bushing out of the roller support.

(3) Lift out the front roller (26).

m. Remove the roller bushings (27) from each end of the rear roller (25) and the front roller (26).

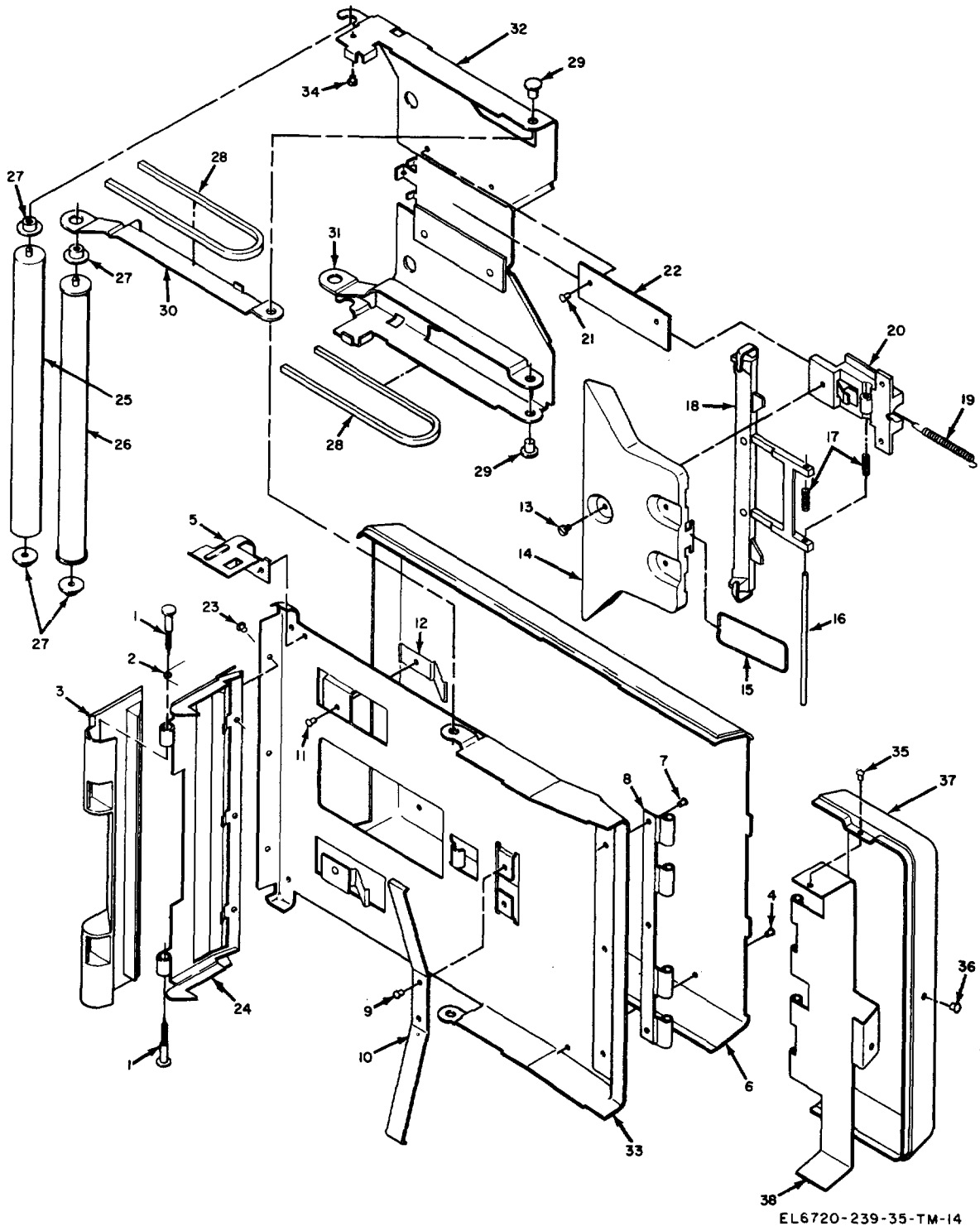
n. Remove the two spread roller springs (28) as follows :

(1) Grasp the roller support frame (32),

with the forefingers resting on the two spread roller springs (28).

(2) With the forefingers, compress the

springs and push them away from the roller support frame. Once the springs are clear of their retainer tabs, the ends of the springs will pop up.



EL6720-239-35-TM-14

Figure 3-7. Rear door and rear cover disassembly.

1 Exit door pivot stud (H34)
 2 Exit door pivot spring (MP48)
 3 Concealed door 4 exit door assembly (A19)
 4 Rivet (H31)
 5 Roll latch (MP43)
 6 Rear door (MP42)
 7 Rivet (H32)
 8 Door hinge (MP45)
 9 Rivet (H32)
 10 Door spring (MP50)
 11 Spring stop rivet (H35)
 12 Roll frame spring (MP51)
 13 Screw (H36)
 14 Slide block cover (MP66)
 15 Slide block link (MP67)
 16 Camera body shaft (MP62)
 17 Locating spring (MP63)
 18 Edge control bar assembly (A16)
 19 Slide block spring (MP64)

20 Slide block assembly (A21)
 21 Rivet (H32)
 22 Slide plate (MP54)
 23 Rivet (H33)
 24 Exit cover frame assembly (A18)
 25 Rear roller (MP58)
 26 Front roller (MP60)
 27 Roller bushing (MP59)
 28 Spread roller spring (MP61)
 29 Spread roller rivet (MP57)
 30 Right front roller support (MP55)
 31 Left front roller support (MP56)
 32 Roller support frame (MP52)
 33 Rear door spider (MP44)
 34 Latch pin (MP53)
 35 Rivet (H30)
 36 Rivet (H31)
 37 Rear cover assy. (A15)
 38 Rear cover spider (MP41)

Figure 3-7. Rear door and rear cover disassembly-Continued.

(3) Successively grasp each spring by its radius. Pull downward, pivoting the spring out of the roller support frame (32).

a. Remove the two spread roller pivots (29) and lift off the right front roller support (30) and the left front roller support (31).

p. Lift the roller support frame (32) off of the rear door spider assembly (33).

q. Remove the latch pin (34).

r. If necessary, the rear cover assembly (35 through 38) can be disassembled by removing the rivets (35 and 36) and separating the rear cover (37) from the rear cover spider (38).

3-9 Disassembling the Finder Assembly (fig. 3-8)

a. Remove the two cover screws (1) from the cover (2), and lift off the cover.

b. Remove the two screws (3) from the cover plate (4), and lift off the cover plate.

c. Remove the three screws (5) from the base plate (6), and drop the base plate down.

d. Push out the base plate slot plug (7), and the two hinge pins (8 and 9).

e. Remove the retaining ring (10), and drop down cam (11), cam spring (12), and cam guide (13).

f. Remove the retaining ring (14), and drop the cantilever subassembly (15) and the bushing (25) down.

g. Remove the retaining ring (16), and lift off the movable image lens spring (17).

h. Remove the adjusting screw (18) and lift off the spring (19) and the roller (20).

i. Remove the three screws (21), and lift lens (22) off lens holder (23). Remove the adjusting screw (24).

j. Remove the E-ring (26) and the sliding mask lever (27) (with the screw (28), and the sliding mask lever spring (29), the retaining ring (30), and the sliding mask interlock (31) attached).

k. Remove the retaining ring (30) and lift off the sliding mask interlock (31).

l. Carefully remove the epoxy and loosen the adjusting screws holding the rangefinder lens (32) in place. Lift out the rangefinder lens and the two spring shims (33).

m. Remove the two screws (34), and lift off the two eccentric bushings (35 and 36), the sliding mask subassembly (37), and the parallax mask subassembly (38).

n. If necessary, carefully remove the epoxy and loosen the adjusting screws holding the objective lens (39) in place. Lift out objective lens and two spring shims (40).

o. If necessary, carefully remove the epoxy and loosen the adjusting screws holding the beam splitter (41) in place. Lift out the beam splitter and the beam splitter spring (42).

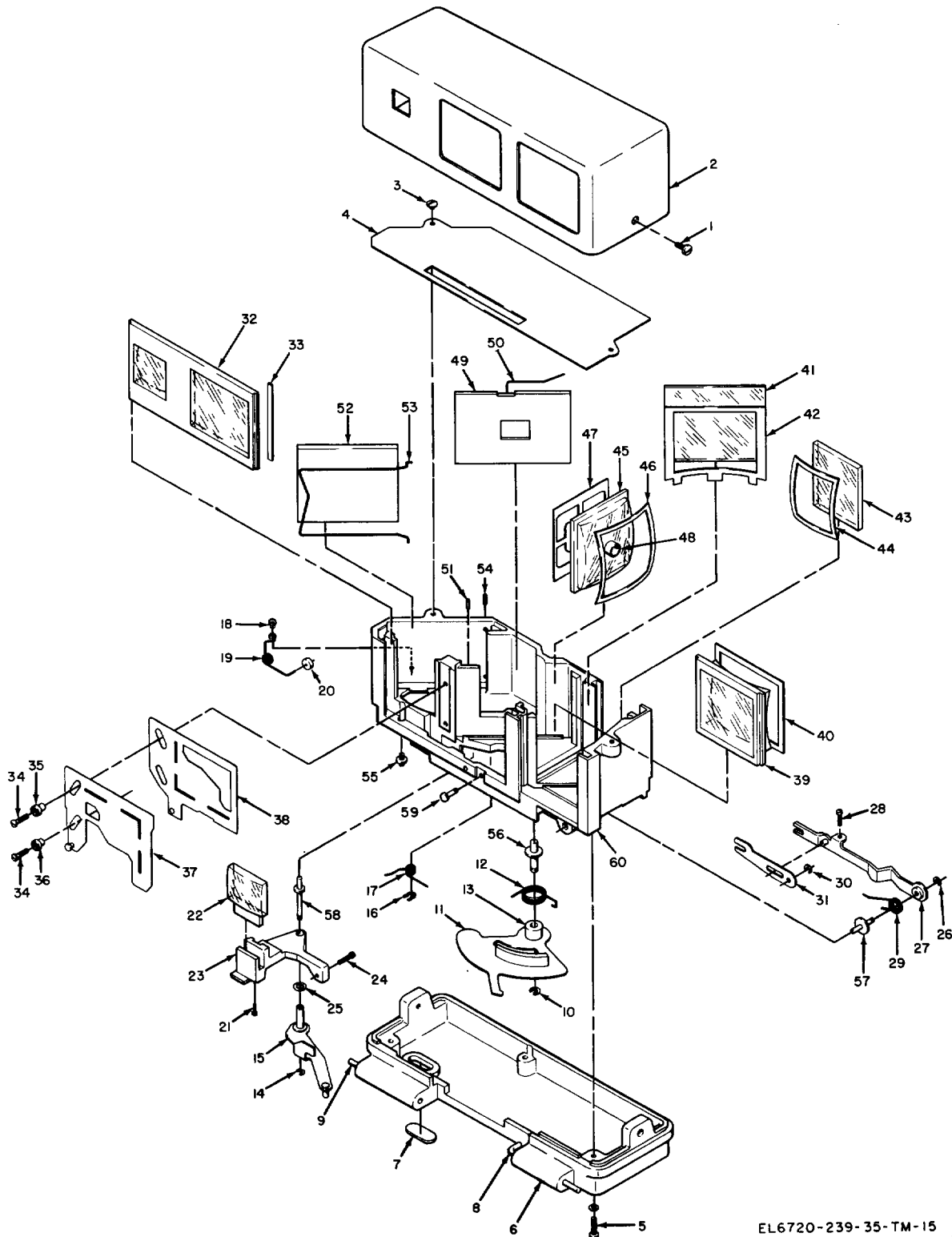
p. If necessary, carefully remove the epoxy and loosen the adjusting screws holding the eyelens (43) in place. Lift out the eyelens (41) and the spring shim (44).

q. If necessary, carefully remove the epoxy and loosen the adjusting screws holding the magnifying lens (45) in place. Lift out the magnifying

lens (45), the spring shim (46), and the cover plate (47).

r. If necessary, carefully remove the tube (48) from the magnifying lens (45).

s. If necessary, carefully remove the epoxy holding the movable image aperture plate (49) in place. Lift out the movable image aperture plate (49) and the spring (50).



EL6720-239-35-TM-15

Figure 3-8 Finder assembly, exploded view.

1	Cover screws (H63)	31	Sliding mask interlock (MP107)
2	Cover (MP84)	32	Rangefinder lens
3	Screw (H64)	33	Spring shim (MP93)
4	Cover plate (MP86)	34	Screw (H77)
5	Screw (H88)	35	Eccentric bushing (H76)
6	Base plate (MP89)	36	Eccentric bushing (H78)
7	Baseplate slot plug (H90)	37	Sliding mask subassembly (A37)
8	Left hinge pin (H62)	38	Parallax mask subassembly (A38)
9	Right hinge pin (H61)	39	Objective lens (MP90)
10	Retaining ring (H81)	40	Spring shims (MP88)
11	Cam (MP103)	41	Beam splitter (H65)
12	Cam spring (MP104)	42	Beam splitter (MP89)
13	Cam guide (MP105)	43	Eyelens (MP87)
14	Retaining ring (H81)	44	Spring shim (MP88)
15	Cantilever subassembly (A39)	45	Magnifying lens (MP91)
16	Retaining ring (A73)	46	Spring shim (MP93)
17	Movable image lens spring (MP100)	47	Cover plate (MP94)
18	Adjusting screw (H69)	48	Tube (MP92)
19	Spring (MP97)	49	Movable image aperture plate (MP98)
20	Roller	50	Spring (MP99)
21	Screw (H74)	51	Adjusting screws (H72)
22	Adjustable lens (MP95)	52	Mirror (MP101)
23	Lens holder (MP96)	53	Mirror spring (MP102)
24	Screw	54	Screws (H74)
25	Bushing	55	Adjusting screw (H69)
26	Retaining ring (H81)	56	Pivot stud
27	Sliding mask lever (MP106)	57	Pivot stud (H80)
28	Screw (H82)	58	Spring post
29	Sliding mask lever spring (MP108)	59	Post
30	Retaining ring (H81)	60	Finder assembly housing (MP 85)

Figure 3-8. Finder assembly, exploded view-Continued.

t. If necessary, carefully remove the epoxy and loosen the adjusting screws holding the mirror (52) in place. Lift off the mirror and mirror spring (53).

u. Remove three screws (54) and one adjusting screw (55).

v. If necessary, drill out the two pivot studs (56 and 57), spring post (58), and post (59) from the finder assembly housing (60).

Section II. REPAIR, CLEANING, AND LUBRICATION

3-10. Repair and Cleaning

a. *Repair.* Repair of the camera is limited to minor straightening where original strength or function of parts is not impaired and to refinishing painted surfaces. Replace any parts that are worn or damaged to such an extent that they cannot be repaired as indicated above. If there is any doubt about the repair, replace the defective part.

b. *Cleaning.* Clean disassembled camera parts as follows:

(1) To clean metallic surfaces, use a clean, lint-free cloth dampened with cleaning compound. Dry the cleaned parts thoroughly. Use another clean, lint-free cloth or a gentle blast of compressed air.

(2) Dust the bellows and plastic parts. Use a brush or a clean, dry, lint-free cloth.

(3) Give special attention to the contacts in battery compartment. Clean the contacts by wiping them with a cloth dampened in water. Dry the cleaned contacts thoroughly; use a gentle blast of compressed air or a clean, soft, lint-free cloth.

(4) Clean optical surfaces with lens tissue.

(5) Clean rollers thoroughly. Use a clean, lint-free cloth dampened with water. Dry cleaned rollers with a clean, dry, lint-free cloth.

3-11. Lubrication

The camera requires no special lubrication. If any sliding parts do not move freely, a small amount of lubricating wax may be used to correct the problem. Do not use any lubricating compound that could cause damage to coated optical surfaces, or to the film.

Section III. REASSEMBLY

3-12. Reassembling the Electronic Mounting Block and Base Assemblies

a. Electronic Block Assembly (fig. 3-5).

(1) If removed, position the flash compensating common contact (21) on the inside of the electronic mounting block (24), with the prong inserted through the hole and broad edge flush against wall of the electronic mounting block (24). Secure the contact in position with a single rivet.

(2) If removed, position the flash compensating upper and lower contacts (22 and 23) on the inside of the electronic mounting block, with the prong inserted in the hole and end of the spring contacts on the outside of each common contact. Secure each of the flash contacts in position with a single rivet.

(3) If removed, press the electronic mounting board insulator (19) onto the nibs on the back of the mounting block (24). Cut out portions in the center of the mounting block (24) and the electronic mounting board insulator (19) should line up.

(4) Mount the electronic components (1 through 16) on the inside of the electronic mounting block (24), in the positions indicated; make sure that the leads protrude through the electronic mounting block and the electronic mounting board insulator (19).

(5) Trim the leads of each of the electronic components so that tip of the lead protrudes out of mounting board insulator (19) approximately 1/16 inch, and bend the end of each of the contacts over onto copper area of flexible circuit (17). Observe the precautions outlined in paragraph 2-7 *c* and apply a small spot of solder to tip of each lead.

CAUTION

Make certain that the solder does not run from one copper area, across the brown insulated area, into another copper area.

b. Reassembling Base Block Assembly, Stage 1 (fig. 3-4). To reassemble the components on the back of the base block (98), place the base block (98) face down, with the elongated slot in the upper right corner, and proceed as follows:

NOTE

The following procedures assume that the two pivot pins (49 and 54) at the upper right corner of the block have not

been removed from the base block and remain in tact. If this is not the case, these pins must be installed before proceeding.

(1) Press the connector strip (75) and the connector strip insulator (74) onto the two horizontal nibs just below the large opening in the center of the block. Position of the connector strip (75) is indicated in outline on the base block. The spring contacts should point upward. Heat seal both of the parts into place.

(2) Press the contact (73) onto the single nib just below right end of connector strip (75). The prong of the contact (73) should fit through the hole in the bottom of the base block. The spring contact should point upward, and be positioned to the left of the connector strip (75) contact.

(3) Attach the adjustable contact (70) and the flat insulator (68) to the base block (98) with the rivet (69).

(4) Place the adjustable contact spring (67) on the rivet (69) with open ends of spring facing right and bent end at the bottom. Adjust cable contact screw (71) should be in place. Press the insulator (66) over the adjustable contact spring (67).

(5) Anchor the top end of the adjustable contact spring (67) to the prong at the far right of the adjustable contact (70) and secure it with a spot of solder. Using long nose pliers, push the bent end of the adjustable spring contact (67) through the hole in the base block (98) (located just below soldered end of spring) and bend the end over on other side of the base block.

(6) Position the spring adjustment stop (83) in the lower right corner of the base block, below and to left of flash contact-break (72), and secure it with the two rivets (82).

(7) Position the breaker contact (65) on the base block so that spring contact placement is between the insulator (66) and the adjustable contact screw (71). The breaker contact (65) should now be to right and touching the top of the adjustable contact terminal. Secure the breaker contact (65) in position with a single oval head rivet (64).

(8) Position the assembled magnet and bobbin (62 and 63) in the recess provided in the base block and secure the assembly with the two screws (59). Make sure that the bobbin is positioned on the magnet so that the square card is on the open end.

(9) Mount the blade latch spring (53), the assembled blade latch and blade latch bushing (51 and 52) on the blade latch pivot (54) ; secure the mounted parts with the retaining ring (50). The U-bend portion of the blade latch spring (53) is secured in the V-slot of the blade latch and free end of spring is tucked under lip of the slot in the upper right corner of the base block. The tip of the latch should rest on the end of the spring terminal of the breaker contact (65) when the blade latch is pressed downward.

(10) Position bottom contact-battery switch (58), insulator (57), and top contact-battery switch (56) in upper right-hand corner of base block (98), and secure with rivet (55).

(11) Mount cocking slide latch bushing (48) on cocking slide latch (47).

(12) Mount cocking slide latch (47) on pivot (49) with hook to left and facing up.

(13) Secure cocking slide latch (47) in position with slide latch spring (46) and retaining ring (45). Short length of spring should fit against lip at top of block. Longer end of spring should be against top on lower right end of cocking slide latch (47).

(14) Fit opening and closing blade (43 and 44) assemblies together so that closing blade is on bottom, with end pins and metal block facing up and cradled into recess at right end of opening blade (43).

(15) Slide assembled opening and closing blades (43 and 44) in track in upper left half of block. Cut out end of opening blade (43) should be to right. Slide both the opening and closing blade assemblies all the way to left.

(16) Glue stop block (29) to closing blade stop bracket (28).

(17) Position shock pad (30) and closing blade stop bracket (28) at the left end of the blade track, and secure in position with rivet (27).

(18) Rivet bumper (81) to base block (98) with bumper eyelet (80).

(19) Attach roller (39) and roller bearing (38) to front side of cocking slide (32) with slide pin (37).

(20) Attach spacer (35) and overtravel arm (34) to cocking slide (32) with overtravel arm pivot (33).

(21) Hook one end of overtravel arm spring (36) into the hole in the upper left corner of cocking slide (32).

(22) Orient assembled cocking slide assembly (32 to 39) so that slotted end is to left and spring is on top. Position assembled cocking slide assembly in track at top of block. Position cocking slide assembly so that right edge of overtravel arm (34) is resting against left side of upper post on the closing blade (44). Check that roller (38) on right end of cocking slide (32) rests on top of high point of blade latch (51). In this position the blade latch (51) is depressed and causes S2 breaker contact (65) to open.

(23) Press retaining pin (31) into place to hold cocking slide assembly (32 to 39) in place.

(24) Hook the free end of spring (36) into the hole on the top of overtravel arm (34).

(25) Assemble capacitor outer-contacts (78), insulator (79), and capacitor contact light seal (77) in order given. Insulator (79) should be sandwiched in between capacitor contacts (73). Rounded ends of capacitor outer-contacts (78) should be facing down. Straight ends should be facing up and positioned on left and right sides of light seal (77).

(26) Position assembled capacitor outer-contacts (78), insulator (79), and capacitor contact light seal (77) in lower left corner of block and secure with two rivets (76).

(27) Press "X" contact, (73) onto nibs to right of light seal (77). Spring contact should be pointing upward, should pass to right of left terminal of "X" connector strip (75), and rest on the left side of the bottom post of the opening blade (43). Heat seal in place.

(28) Place opening blade spring (42) over round post molded into bottom center of block. Position spring so spring ends point up, and left end rests on right side of post. in center of opening blade.

(29) Place retaining washer (41) over blade spring (42) and secure with a single rivet (40).

(30) Insert right end of spring in first notch on spring adjustment (83).

c. Reassembling Base Block Assembly, Stage II.
To reassemble the components on the front of the base block assembly, proceed as follows:

NOTE

This procedure assumes that the aperture wheel pivot pin (17), and two pivot pins (25 and 5) in lower left corner, have not been removed and are intact. If this is not the case, these pins must, be installed before proceeding,

(1) Mount common capacitor contact (97) to right of aperture wheel pivot pin (17). Prong must be inserted in hole at right and contacts should be positioned at top and bottom of aperture wheel pivot pin (17). Secure common capacitor contact (97) in this position with a single rivet (96).

(2) Mount inner capacitor contact (95), with prong inserted in hole, in slot below and to left of common capacitor contact (97), and secure with a single rivet (94).

(3) Position roller (93) over hole in top of actuator detent spring (91) and secure in place with pin (92).

(4) Position actuator detent spring (91) on the lower left of base block (98), and secure in position with two rivets (90).

(5) Assemble the readout indicator (85) and readout indicator spring (86) with the flat center area of the spring in the notch under the indicator face. The small loop end of the spring should be facing the slot end of the readout indicator (85), and the long loop end of the spring positioned beyond the opposite end of the readout indicator.

(6) Mount the readout indicator assembly (85 and 86) in cutout area at top of block. Spring ends should go around outside of molded stand-offs, with the tips on the outside of the bent edges on the readout indicator (85).

(7) Secure the readout indicator assembly (85 and 86) in position with a single rivet (84) in the elongated slot at the right.

(8) Press the left end of the readout indicator (85) against the left molded standoff, and place a second rivet (84) under the lower edge of the readout indicator. Readout indicator should be free to slide from left to right.

(9) Mount closing blade spring (89) on standoff molded in block to left of inner capacitor contact (95). Long arm of spring should face upward and to the right. Short arm of spring should be positioned in cutout area in lower left corner of block.

(10) Put retaining washer (88) over closing blade spring (89) and secure with a single rivet (87).

(11) With opening and closing blade assemblies (43 and 44) in far right position, manipulate long arm of spring (89) so that it rests against left side of post in center of closing blade (44).

(12) Place rear light baffle (26) in position, aligning tabs with cutouts in base block and snap into place.

(13) Position cocking arm spring (23) over pivot (25), and insert the angled end of the spring into its allotted hole in base block (98).

(14) Slide the forked end of cocking arm (22) onto the slide pin (37) at the end of the cocking arm (32, rear view). Position the cocking arm (22) over pivot (25), and secure in place with retaining ring (21).

(15) Latch the hooked end of spring (23) onto cocking arm (22).

(16) Cement capacitor switch S3 (16) in depression on back of aperture wheel (15).

(17) Position aperture wheel (15) and spacer (14) on pivot (17).

(18) Position scene selector slider button (4) in the hole at the angled end of scene selector slider (3), and heat seal in place.

(19) Attach aperture detent spring (10) to aperture detent mounting arm (13) with two rivets (9).

(20) Position the rounded end of aperture detent mounting arm (13) over the rounded end of scene selector slider, and secure together with rivet (12). Aperture detent mounting arm (13) should be free to pivot.

(21) Insert screw (17) through lockwasher (8), the elongated hole in readout actuator (6) and the aperture detent mounting arm (13) and tighten. Make sure that the two holes in readout actuator (6) are aligned with the two holes in aperture detent mounting arm (13).

(22) Insert detent block (11) into aperture detent spring (10).

(23) Mount front light baffle (19) on top of aperture wheel (15) and secure with two screws (18) provided.

(24) Mount readout actuator assembly (3, 4, 6 through 13) on aperture wheel pivot pin (17), and secure with retaining ring (1).

(25) Secure elongated slot of lighting selector slider (3) to pivot pin (5) with retaining ring (2).

3-13. Reassembling the Shutter Assembly (fig. 3-3)

a. Position shutter rear casting assembly (4) with elongated slot in upper left corner.

b. Mate shutter mount (41) to bottom of the shutter rear casting assembly (4), with open end facing away from you and elongated slot on bottom.

c. Secure shutter mount (41) to right end of shutter rear casting assembly (4) with the shutter mount screw (40).

d. Install the rear positive lens (39) and rear lens retainer (38) in opening provided in shutter rear casting assembly (3).

e. Using rear lens remover tool, lock lens (39) in position by turning retainer (38) in a clockwise direction.

f. Check that electronic mounting board insulator (37) and shutter gasket (36) have not been removed from inside of shutter rear casting assembly (4) or damaged. If either item has been removed or damaged, a new item must be glued in its place.

g. Mount the shutter release block (35) on the back of the shutter rear casting assembly (4), in upper right corner, with flat post protruding through the elongated slot in the rear shutter casting.

h. Slip release block retainer (34) over end of post and heat seal in place. Make certain the shutter release block (35) is free to slide up and down in the elongated slot after heat seal has cooled.

i. Mount cable release cover (33) over shutter release block (35) and secure with screws (32) provided.

j. Insert short shoulder of shutter shaft (30) through holes in top and bottom of shutter rear casting assembly (4) and shutter mount (41).

k. Withdraw shutter shaft (30) enough to permit the hook of the shutter mount spring (31) to be passed over the short shoulder of the shutter shaft (30). Anchor end of spring (31) on end of shutter shaft (30) by pressing shutter shaft down until it protrudes below shutter mount approximately 1/8 inch.

l. Mount cell lens mount (27) on front of f rent shutter casting (3).

m. Mount wave washer (28) on rear of cell lens mount (27) and heat seal in position.

n. Place plastic cell wedge (25) on back of flash filter actuator assembly (26) in position shown.

o. Position the plastic cell wedge (25) and the flash filter actuator assembly (26) on back of the shutter front casting assembly (3).

NOTE

Elongated slots should be to the right,

and actuating arm should be to the left. Two rivet holes should be visible through the elongated slot.

p. Using the universal riveter tool, secure the plastic cell wedge (25) and the flash filter actuator assembly (26) to the shutter front casting assembly (3) with the two rivets (23). Rivets should not impede the sliding plastic cell wedge (25).

g. Using the universal riveter tool, install the thick end of the actuator arm pivot pin (24) through actuating arm and into the hole provided in the shutter front casting assembly (3).

v. Position the actuating arm spring (22) on the other end of the pivot pin (24) so that the bent end of the spring rests against the tab on the flash filter actuator (26), and the straight end is against the raised block on the shutter front casting (3). Secure with the retaining ring (21).

s. Place the cell lens (20) into the lens mount (27) with the shallow convex surface facing out, and press the cell lens retainer (19) into cell lens mount (27).

t. Using front lens remover and focusing tool, screw front lens assembly (18) into shutter front casting assembly (3).

u. Assemble bezel (17), bezel spring (16), outer ring (15), center ring (14), and bezel cap (13) in that order.

v. Carefully depress the bezel cap (13) until the bezel spring (16) is fully compressed, and the tabs on the bezel cap (13) pass through the slots on the bezel (17). Bend the tabs on the bezel cap over.

w. Position the bezel assembly (13 through 17) over the f rent lens (18). The key on back of the bezel (17) should pass through the slot in the shutter front casting assembly (3), and fit into the forked extension of the plastic cell wedge (25).

x. Fit the bezel friction spring (12) in the recess provided in the front shutter casting. The ends of the spring should press against the bottom edge of the bezel (17).

CAUTION

Make certain glue does not get on bezel (17). Check that bezel assembly can be turned freely.

y. Glue the f rent decorative plate (11) onto the shutter f rent casting assembly (3).

z. Attach the base block and the electronic mounting block assemblies (9) to the rear of the shutter front casting assembly (3) with the four screws provided (6, 7, 8).

aa. Mount the front casting light seal (10) in the upper right corner of the shutter front casting assembly (3).

ab. Thread the battery wire assembly which is attached to the base block and the electronic mounting block, through the hole in the left lower corner of the shutter rear casting assembly (4).

ac. Assemble the shutter front casting assembly (3) to the shutter rear casting assembly (4) and secure with two shutter fastening screws (1) provided.

ad. Replace shutter fastening screw-long (2) but do not tighten securely at this time.

ae. Glue top etch plate (5) in place. Etch plate (5), if new, will have self-adhesive backing.

af. Place shutter shaft sleeve (29) over top of shutter shaft (30).

3-14. Reassembling the Body/Bellows Assembly (fig. 3-6)

a. Reassembly, Stage 1.

CAUTION

When riveting components to the camera body, use care not to crack camera body.

(1) Using universal riveter tool, attach mounting plate spring (80) to camera body (2) with two rivets (79).

(2) Secure two R. F.-V. F. pivot pads (78) to camera body (2) with Bipax Tra-Con epoxy.

(3) Position two strap lugs (77) in holes at extreme left and right rear edge of camera body (2). Secure lugs by peening lug pins from underneath the top lip of camera body.

(4) Attach tab strip bar (75) to camera body with two screws (74).

(5) Press latch pivot (73) onto release latch (71) and install release latch spring (72).

(6) Position release latch (71) with latch pivot (73) inserted in hole top right of camera body (2).

(7) Insert release arm (70) so that it engages the lower end of the release latch (71). Insert screw (69) into release arm (70) and tighten.

(8) Apply glue to right front side of camera

body (2), using care to keep holes clear of glue, and attach right hand guard (68).

(9) Using universal riveter tool-

(a) Attach stationary hinge (67) on light seal assembly (65) with three rivets (66).

(b) Position the spring stop (63) on the light seal assembly (65) and attach with two rivets (60).

(c) Mount light seal assembly (65) on camera body (2) with four rivets (64).

(10) Set left and right fillers (61, 62) in place behind spring stop (63).

(11) Using universal riveter tool, mount battery interlock assembly (59) on camera body (2) in position shown with rivet (58).

(12) Secure left-hand guard (57) to camera body (2) with two hand guard fasteners (56).

(13) Position the center retainer (55) and rear cover latch (54) on left-hand guard (57) with screw (53).

(14) Secure battery clip (52) to left-hand guard (57) with screw (51).

(15) Snap battery B1 (50) into battery clip (52).

(16) Position magnet spring (49), magnet (48) and two pole pieces (47) in slot in top of camera body (2) and secure with magnet pivot (46).

(17) Attach neck strap assembly (45) to strap lugs (77) with D-rings (44).

(18) Activate glue on slot cover (43) by applying MEK or Ethyl Acetate, Glue slot cover (43) in slot in bottom left of camera body (2).

b. Reassembly, Stage 2.

(1) Using universal riveter tool, mount shutter mount bushing (42) on U-frame (14) with spring rivet (41).

(2) If cable release wire tab (40) and two flash wire tabs (39) have been removed, glue into place on bellows (1).

(3) Using universal riveter tool-

(a) Mount focus bar bracket (37) to focus bar (38) with two rivets (36).

(b) Mount focus buttons (34 and 35) on focus bar (38) with two rivets (33).

(4) Activate glue on focus bar plate (32) and zone focus plate (31) by applying MEK or Ethyl Acetate. Glue focus bar plate (32) and zone focus plate (31) into place.

(5) Using universal riveter tool, mount inner frame top (30) and detent slide (29) on focus bar (38) with rivet (28).

(6) Position detent slide spring (27) under shoulder of detent slide (29).

(7) Press right focus bar sleeve (19), right focus bar washer (20), left focus bar sleeve (21), and left focus bar bushing (22) into place on focus bar (38). Make sure that all parts go into their respective slots on focus bar (38).

(8) Position focus bar assembly (27 through 38) in camera body (2).

CAUTION

When performing steps (9) and (10), be careful not to crack the camera body (2).

(9) Using focus bar rivet inserter:

(a) Insert one rivet (18) through top of camera body (2), right focus bar sleeve (19), right focus bar washer (20), focus bar (38), and into camera body (2).

(b) Insert the other rivet (18) through top of camera body (2), left focus bar bushing (22), left focus bar sleeve (21) and focus bar (38) into camera body (2).

(10) Using universal riveter tool-

(a) Insert brake sleeve (25) into small end of spring (26). Position the two between focus bar (38) and top of camera body (2). Insert brake rivet (23) from beneath focus bar assembly, through brake washer (24), brake sleeve (25), brake spring (26), into top of camera body (2) and secure.

(b) Snap track guide (17) into inner frame bottom (15) and fasten with rivet (16).

(11) Insert inner frame bottom (15) so that track guide (17) slides along the slot on the bottom of camera body (2).

(12) Set spring washer (11) and U-frame bottom spacer (10) onto pivot pin (76).

(13) Set U-frame (14) in place over bottom spacer (10) in camera body (2).

(14) Set U-frame top spacer (6) into position.

(15) Slip bezel (4) onto shutter release bushing assembly (5).

(16) Slip shutter release bushing assembly (5) down through camera body (2), U-frame top spacer (6), and hole in U-frame (14), and drive into position with a ¼-in. pin punch.

(17) Slip return spring (9) onto shutter release knob (8), with the large end of spring toward the knob.

(18) Insert the wire on shutter release knob (8) through the hole in shutter release bushing assembly (5).

(19) Depress shutter release knob (8) until the top of the knob is ⅛ in. above the top of bezel (4). Attach shutter release tip (7) to wire on shutter release knob (8), and crimp into place with wire cutters.

(20) Using link pivot inserter tool, secure inner frame top (30) and inner frame bottom (15) to U-frame (14) with two link pivots (12) and two link pivot spacers (13).

(21) Position light seal (3) inside bellows (1).

(22) Carefully position the bellows (1) in the camera body (2) and check for proper fit.

(23) Using bellows pliers tool and pad, carefully bend the fourteen tabs on the back frame of bellows (1) onto camera body (2).

3-15. Reassembling the Back Cover (fig. 3-7)

a. Position the rear cover spider (38) on the rear cover (37).

b. Using universal riveter tool, secure spider (38) to cover (37) with two rivets (35 and 36).

c. Position right and left front roll supports (30 and 31) and roller support frame (32) on rear door spider (33).

d. Using universal riveter tool, secure front roll supports (30 and 31) and roller support frame (32) to rear door spider (33) with two spread roll rivets (29).

e. Install left spread roll spring (28) as follows :

(1) With stenciled side of roller support frame (32) facing away from you, insert open ends of spring (28) around tab on left front roll support (31).

(2) Turn roller support frame (32) around so that stenciled side is facing you.

(3) Support base of spring (28) with index finger, and simultaneously press ends of spring (28) upward with thumb and forefinger until ends of spring snap into place under tabs at top of roller support frame (32).

f. Mount two slide plates (22) on roller support frame (32), and secure with four rivets (21) using the universal riveter tool.

g. Mount door spring (10) on rear door spider (33), and secure with two rivets (9) using universal riveter tool.

h. Mount two roll frame springs (12) on rear

door spider (33), and secure with two rivets (11) using universal riveter tool.

i. Mount exit cover frame assembly (24) to rear door spider (33) with three rivets (23) using universal riveter tool.

j. Mount rear door hinge (8) to rear door spider (33) and secure with three rivets (7) using universal riveter tool.

k. Mount rear door spider assembly (33) and roll latch (5) on rear door (6), and secure with four rivets (4).

l. Mount exit door assembly (3) and spring (2) on exit cover frame assembly (24) as follows:

(1) With exit door assembly (3) facing you, insert spring (2) around pivot (1). Hold spring (2) with short end away from you.

(2) Using pivot stud remover and inserter tool, press both pivot studs (1) into exit door assembly (3).

(3) Hook short end of spring (2) under exit door assembly (3). Long end of spring (2) is tensioned against exit cover frame assembly (24).

m. Using tweezers, hook end of spring (19) over end of slide block assembly (20) where two screw holes are located.

n. Position slide block assembly (20) so spring (19) is under assembly, and free end of spring is towards tab at front of roller support frame (32).

o. Hook free end of spring (19) into hole in tab at front of roller support frame (32), carefully draw slide block assembly (20) back until tracks on slide block assembly (20) can be slipped under slide plates (22), and let spring (19) pull slide block assembly (20) forward along slide plates (22). Make certain slide block assembly (20) rides freely back and forth.

p. Position edge control bar (18) so that control bar is away from you with tabs at end of bar facing up, and center portion nearest you.

q. Insert shaft (16) partially into hole in right arm of edge control bar (18), place one spring (17) over shaft, and drive shaft (16) through hole in center of slide block assembly (20).

r. Place second spring (17) over shaft (16), and drive shaft (16) through corresponding hole in left arm of edge control bar (18). Center shaft (16) so approximately ¼ inch of shaft protrudes from each arm of edge control bar (18).

s. Hook closed edge of slide block link (15) over flange at center of narrowest edge of slide block cover (14).

t. Turn slide block cover (14) over so that slide block link is on bottom.

u. Hook open end of slide block link (15) under flange in center of rear door spider assembly (32).

v. Place slide block cover (14) over slide block assembly (20) and edge control bar (18) so that holes in cover are in line with holes in slide block assembly (20).

w. Secure slide block cover (14) to slide block assembly (20) with three screws (13).

x. Raise roller support frame (32) to upright position.

y. Turn back cover around so stenciled side of roller support frame (32) faces you.

z. Insert two roller bushings (27) onto ends of front roller (26).

aa. Insert left end of front roller (26) in socket at top of left front roller support (31).

ab. Spread right front roller support (30) until right end of front roller (26) snaps into hole on top of left front roller support (31).

ac. Turn rear door assembly so that stenciled side of roller support frame is facing away from you.

ad. Place roller bushing (27) on both ends of rear roller (25).

ae. Insert left end of rear roller (25) in hole at top of left side of roller support frame (32).

af. Press rear roller (25) forward and down until right end of rear roller (25) snaps into hole at top of right side of roller support frame (32).

3-16. Reassembling the Finder Assembly (fig. 3-8)

NOTE

Before reassembly, remove all epoxy residue from parts.

a. Using anvil and universal riveter tool, mount spring post (58, 59) and two pivot studs (56, 57) in positions indicated.

b. Insert adjusting screw (55), and six adjusting screws (51 and 54) into holes provided in housing (60) but do not tighten.

c. Insert mirror (52) and mirror spring (53) into channels indicated in housing (60).

d. Carefully slide movable image aperture plate (49) into channel indicated.

e. Hook one end of spring (50) into hole in aperture plate (49). Bring other end of spring (50) through hole in floor of housing (60) and anchor to underside of housing.

f. Carefully install tube (48) in magnifying lens (45).

g. Insert magnifying lens cover plate (47), magnifying lens frame spring (46), and magnifying lens (45) into channels indicated.

h. Insert eyelens (43) and shim spring (44), into channels indicated.

i. Insert beam splitter (41) and beam splitter spring (42) into channels indicated.

j. Insert objective lens (39) and two spring shims (40) into channels indicated.

k. Mount parallax mask subassembly (38), sliding mask subassembly (37), and two eccentric bushings (35 and 36) on rangefinder/viewfinder housing (60) and secure with two screws (34).

l. Insert rangefinder lens (32) and two spring shims (33) into channels indicated.

m. Mount sliding mask interlock (31) on mount spring post (59) and secure with retaining ring (30).

n. Mount sliding mask lever (27) and sliding mask lever spring (29) on pivot stud (57) and secure with retaining ring (26).

o. Fit long end of lever spring (29) under sliding mask lever (27).

p. Install adjusting screw (24) in lens holder (23).

q. Position adjustable lens (22) in lens holder (23) and secure with three screws (21).

r. Position lens holder (23) on pivot stud (58).

s. Position movable image lens spring (17) on the bottom of range finder/viewfinder housing (60) so that the curved end of the spring is against the rear wall of the range finder/viewfinder housing, and the straight end is against the post on the bottom of lens holder (23). Secure lens spring (17) in position with retaining ring (16).

t. Slip bushing (25) and cantilever subassembly (15) onto pivot stud (58), and secure with retaining ring (14):

u. Attach cam guide (13) to cam (11), and set cam spring (12) over guide (13), with the curved end of the spring hooked on the edge of the slot in cam (11).

v. Slip cam (11) over pivot stud (56), so that the pin on cantilever assembly (15) protrudes through the slot on cam (11). Secure cam (11) to pivot stud (56) with retaining ring (10).

w. Slip roller (20) onto the straight end of spring (19).

x. Position spring (19) so that roller (20) rests in the groove on the bottom of lens holder (23). Secure the curved end of spring (19) to the side of rangefinder/viewfinder housing (60) with adjusting screw (18).

y. Tension the straight end of cam spring (12) against the rear screw hole on the bottom of rangefinder/viewfinder housing (60).

z. Press two hinge pins (8 and 9) and plug (7) into place.

aa. Position baseplate (6) on bottom of rangefinder/viewfinder housing (60) with hinge pins (8 and 9) toward front and secure with three screws (5).

ab. Position cover plate (4) on top of rangefinder/viewfinder housing (60) and secure with two screws (3).

ac. Place rangefinder/viewfinder cover (2), with the three lens openings toward front, over rangefinder/viewfinder housing (60) so that cover (2) fits tightly against lip of baseplate (6). Secure cover (2) with two screws (1).

3-17. Reassembling the Front Cover (fig. 3-2)

a. Attach clip spring (7) to clip spring assembly (6) and set both parts into slot on mounting plate hinge (8).

b. While holding clip spring (7) and clip spring assembly (6) firmly in place, carefully position mounting plate hinge (8) on front cover (9).

c. Using universal riveter tool, secure mounting plate hinge (8) to cover (9) with two rivets.

d. Grasp clip spring (7) firmly and tension the clip spring (7) by pulling up on clip spring assembly (6).

e. Attach and hold mounting clip hinge (4) to mounting plate hinge (8) by sliding mounting plate hinge pin (3) into slots.

f. Attach catch plate (2) to front cover (9) and secure with two screws provided (1).

3-18. Reassembling Camera Component Subassemblies

a. Attach rear cover assembly (10) and rear door assembly (21) to camera body (2), using hinge pin (38).

b. Insert the two hinge plugs (37).

c. Insert the bottom of U-frame (34) into the elongated hole of the shutter mount (35) and slide into the slot.

d. Attach the loose end of shutter mount spring (36) to shutter mount spring rivet (33) on the bottom of U-frame (27).

e. Insert the shutter shaft screw (29) through inner frame bottom (32), flat washer (31), and bowed washer (30) into the bottom of the shutter shaft (27) and tighten.

f. Place the inner frame top (28) over the shutter shaft (27) and secure in position with detent stud (26).

g. Snap detent (25) over detent stud (26).

h. Place front frame light seal (24) into position over the four screw holes on front of bellows (23).

i. Insert four bellows screws (22) through the holes in bellows (23) and light seal (24) into the shutter assembly and tighten.

j. Loosen the two release cover screws (16) and shutter fastening screw (17) on cable release cover (18) enough to slide the shutter release casing (19) into position.

k. Retighten release cover screws (16) and shutter fastening screw (17).

l. Slip battery wire assembly (14) through two flash wire tabs (13) and hole in camera body.

m. Clip banding clip (15) onto battery wire assembly (14).

(1) Solder the black battery wire to the battery interlock terminal (11).

(2) Solder the white battery wire to the positive battery terminal (12).

n. Set spring (9) and rangefinder/viewfinder assembly (3) into position.

o. Using range finder/viewfinder remover and inserter tool, re-engage hinge pin (8) to secure rangefinder/viewfinder assembly (3) in place.

p. Snap front cover (1) into place so that spring (7) is engaged.

q. Press down on inner frame top (24) and push shutter assembly (5) in until it locks in the closed position.

r. Gently fold rangefinder/viewfinder assembly (3) into the closed position.

s. Swing cover (1) up to the closed position.

Section IV. ADJUSTMENTS

3-19. Base Block Assembly and Electronic Mounting Block Assembly

(1) Cock the shutter. The nib of battery switch S1 (fig. 3-9) should be visible below cocking slide latch. If not, bend pin on the cocking slide latch down.

(2) Slowly depress shutter cocking lever 3 until the pin on the opening blade rests on the blade latch. At this point, timing switch S2 should start to open. Switch S2 may be adjusted by turning the adjusting screw. After adjustment, cover screw with clear cementing varnish.

(3) Inspect the magnet poles and keeper on the closing blade for foreign matter and rust. Clean parts with a dry cotton swab. Replace rusted parts.

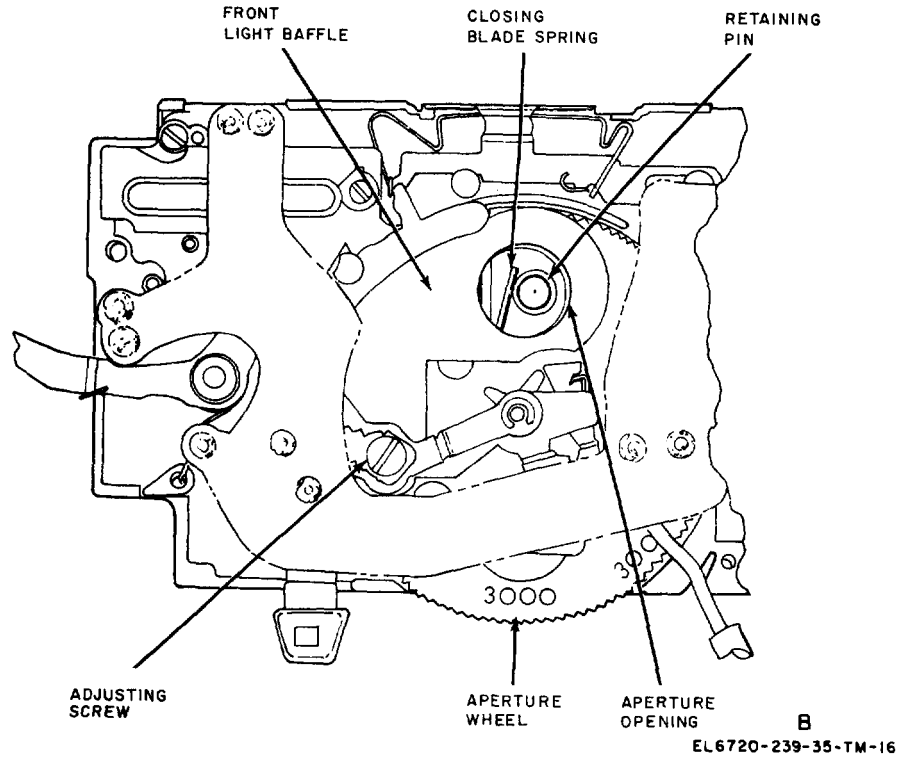
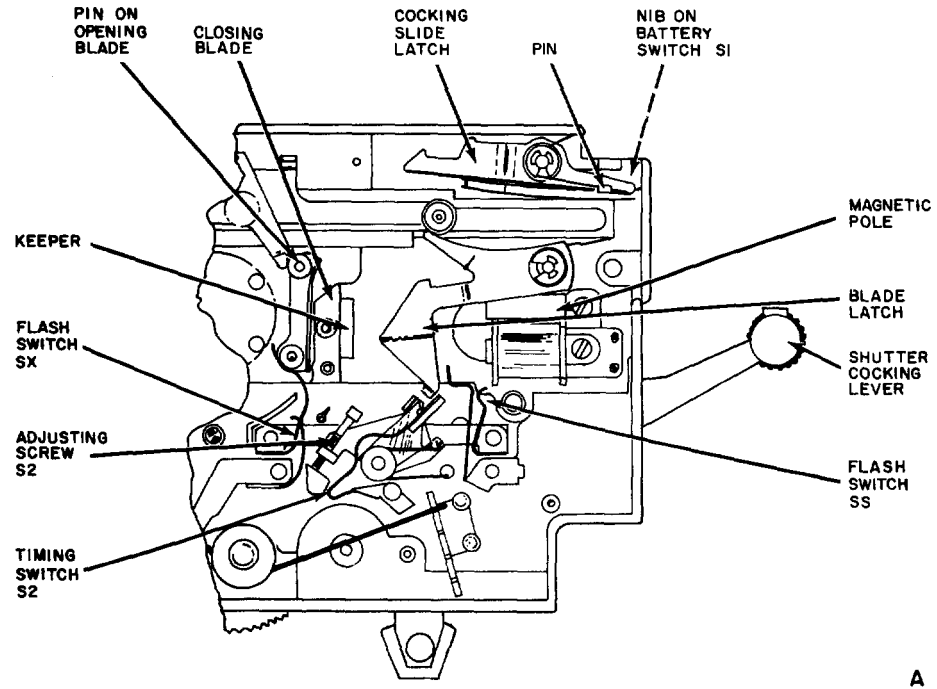
(4) Depress shutter cocking lever 3 until pin on the opening blade is held by blade latch. Check

to see that the edge of the keeper is parallel to the edge of the closing blade and magnet poles. Adjust the position of the keeper as required.

(5) Observe the action of flash switches SX and SS (fig. 3-9). When the shutter is uncocked, switch SX is closed and switch SS is open. When the shutter is cocked, the reverse is true. Adjust the switches by bending the contacts as required.

(6) Select the largest opening on the aperture wheel and check to see that the left side of the opening lines up with the left side of the front light baffle. If not, loosen the aperture wheel adjusting screw and position front light baffle as required. When adjustment is completed, tighten aperture wheel adjusting screw and cover with clear cementing varnish.

(7) Uncock shutter and sight through the ap-



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Figure 3-9. Baseblock assembly adjustment diagram.

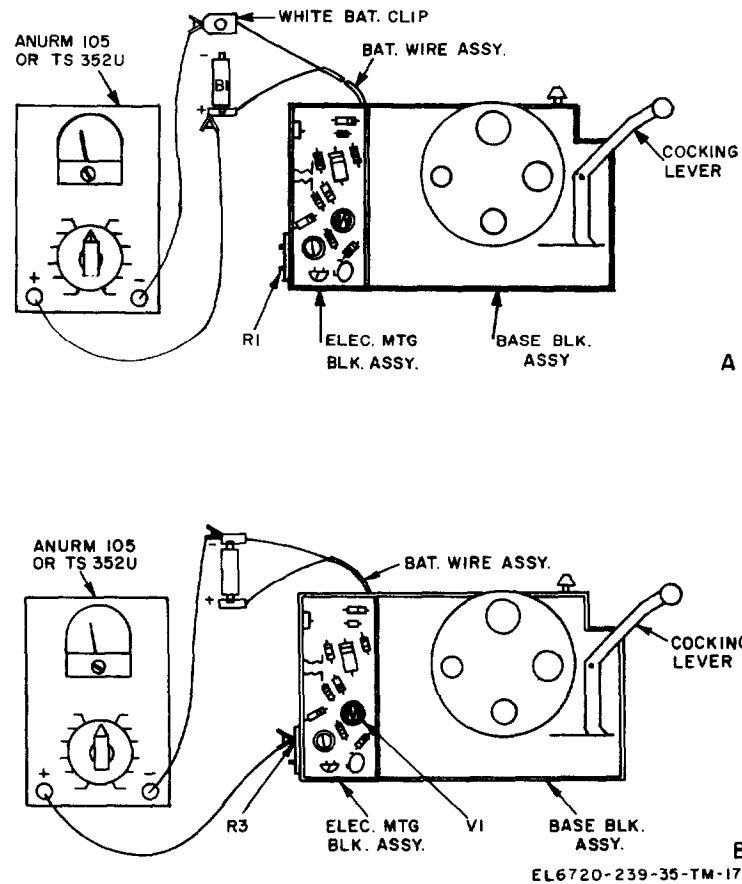


Figure 3-10. Electronic mounting block adjustments.

erture opening. The end of the closing blade spring should rest on the retaining pin.

b. Electronic Mounting Block Assembly Adjustment.

(1) General. To adjust the electronic mounting block assembly, first make all shutter electrical connections.

(2) Adjust top potentiometer R1 on the electronic mounting block (fig. 3-10) as follows:

(a) Disconnect the white battery clip from battery B1 (fig. 3-10).

(b) Connect the negative (-) lead of a multimeter to the white battery clip.

(c) Connect the positive (+) lead of the multimeter to the positive (+) terminal of the battery.

(d) Cock the shutter and set electronic mounting block face down on the workbench.

(e) Set the multimeter to a scale higher than 20 ma DC.

(f) Trip the shutter and read the meter. The reading should be 20 ± 1 MA.

(g) Must R1 (6) as necessary to obtain required reading.

CAUTION

This adjustment affects all shutter speeds. To insure accurate shutter performance, after the R1 adjustment has been made, a complete shutter assembly operational test (para. 4-4) must be performed.

(3) Adjust the bottom potentiometer (R3) on the electronic mounting block (fig. 3-10) as follows :

(a) Connect the negative (-) lead of a multimeter to the negative (-) terminal of battery B1.

(b) Connect the positive (+) lead of the multimeter to the wiper arm of R3.

(c) Cock and trip the shutter. The meter should indicate 0.75 vdc or more.

(d) If the meter indicates less than 0.75 vdc, replace photocell V1 with a photocell from the next lower color group.

3-20. Electronic Mounting Block Color Code/ Value Table

a. *General.* If, in the course of testing the base block assembly, an electronic component is found to be defective or in need of change for shutter speed calibration, the following color should be strictly adhered to. The value of the resistors and capacitors listed is dependent upon the color code dot painted on the photocell (V1).

b. *Color Code Table.*

PHOTOCONDUCTIVE CELL (VI)-
Values in kilo-ohms

Color	Resistance Range
Blue	15.11-17.2
Black	13.20-15.10
Red	11.50-13.19
Yellow	10.00-11.49
Green	8.70- 9.99
White	7.60- 8.69
Orange	6.60- 7.59

RESISTORS-Values in ohms ±10%

Color	RR2	R4	R5	R6	R7	R8
Blue	10K	1800	68K	120	3300	120K
Black	10K	1500	56K	100	3300	120K
Red	10K	1200	47K	91	2700	100K
Yellow	10K	1200	47K	82	2200	82K
Green	10K	1000	39K	68	2200	82K
White	10K	820	33K	62	1800	68K
Orange	10K	680	27K	51	1500	56K

CAPACITORS-Values in Microfarads

Color	C1		C2 & C3		C4	
	Min.	Max.	Min.	Max.	Min.	Max.
Blue	.191	.220	2.03	2.33	14.0	16.0
Black	.220	.252	2.33	2.68	16.0	18.5
Red	.252	.290	2.68	3.07	18.5	21.2
Yellow	.290	.332	3.07	3.53	21.2	24.3
Green	.332	.382	3.53	4.05	24.3	27.9
White	.382	.440	4.05	4.65	27.9	32.1
Orange	.440	.504	4.65	5.34	32.1	36.9

3-21. Preliminary Adjustment of Finder Assembly

Preliminary adjustments must be made before the range finder/viewfinder assembly is mounted on the camera. The final adjustments (para. 3-23) are made after the range finder/viewfinder assembly is mounted on the camera.

a. Place the rangefinder/viewfinder assembly on a flat surface at eye level.

b. Sight through the eyelens and check that the Albator (the yellow dotted line used to frame the image) is parallel to the image seen through the eyelens.

NOTE

The Albator is controlled by the movable image aperture plate, which in turn, is controlled by three adjusting screws. The top outside adjusting screw moves the Albator line up and to the right (in) or down and to the left (out). The bottom outside adjusting screw moves the Albator line up (in) or down (out). The inside adjusting screw moves the Albator to the left (in) or right (out).

c. Using the three adjusting screws, position the Albator so that it appears square when the finder assembly is level. Shellac the movable image aperture plate and adjusting screws in Position.

d. To make a topside adjustment, proceed as follows :

(1) Set the finder on a flat surface and sight on an object 1 mile away.

(2) Loosen the turret assembly locking screw.

(3) Tighten the turret assembly adjusting screw located on the underside of the turret assembly.

(4) To lower the movable image, tighten the two Allen screws on the underside of the turret assembly.

(5) To raise the movable image, loosen the same two Allen screws.

(6) Adjust the position of the movable image in the eyelens until it is aligned with the fixed image. If the images will not superimpose, set them as close as possible and proceed with step 7.

(7) Tighten turret assembly locking screw and apply shellac to the two Allen screws and turret assembly adjusting screw on the underside of the turret assembly.

(8) Secure the movable image lens in the turret assembly with shellac.

(9) If further adjustment is required, use the top left-hand image adjusting screw. Turn the screw in to raise the image, and out to lower the image.

e. To make a range adjustment, proceed as follows :

(1) Set the finder assembly on a flat surface and sight on an object located about a mile away.

(2) Adjust the movable image by turning the locking screw at the rear of the turret assembly. When the image is approximately correct, shellac the screw in place.

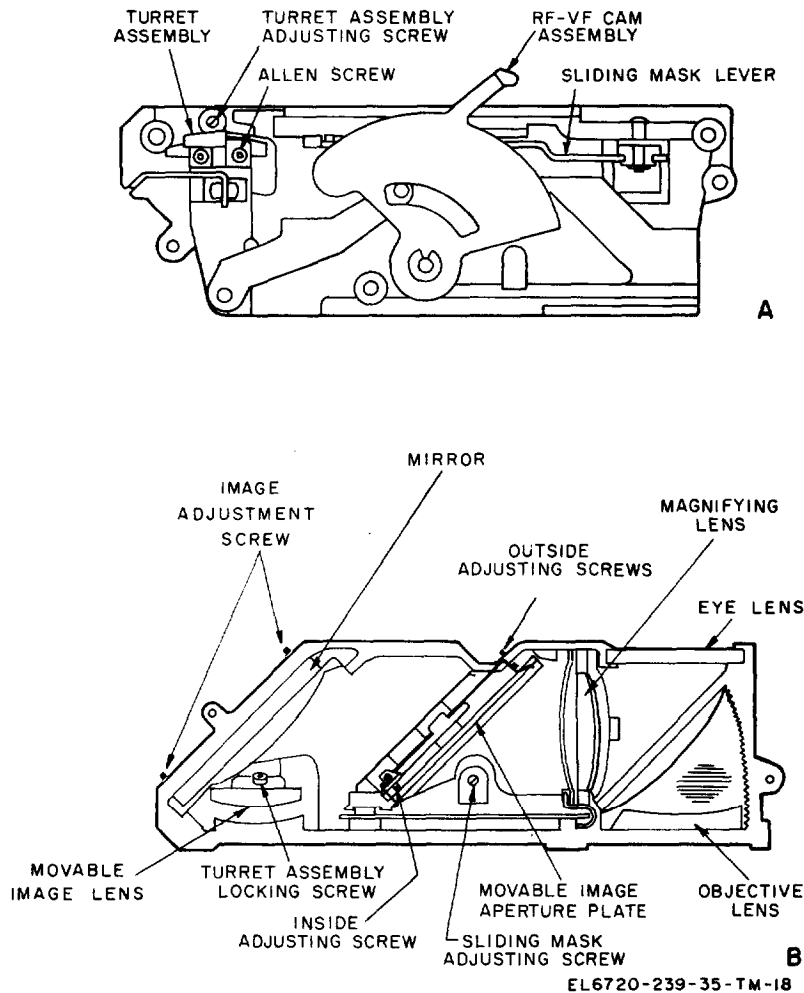


Figure 3-11. Finder assembly, adjustments.

(3) If further adjustment is required, turn the right-hand image adjusting screw at the rear of the mirror. Turning this screw in will move the image to the right, and turning screw out will move the image to the left.

f. Shellac all lenses, except the mirror, into position.

3-22. Shutter Cable Release Installation and Adjustment

a. *General.* The shutter release cable must be the correct length to allow proper tripping action, without being so long that the shutter release knob can be accidentally tripping.

b. *Operational Camera Check.*

(1) Open camera and cock the shutter.

(2) Place the small radial end of "Go-No-Go" gauge against the shutter release knob.

(3) When gauge is fully depressed, shutter should trip.

(4) Re-cock the shutter. Center the recessed end of "Go-No-Go" gauge over shutter release knob.

(5) When gauge is fully depressed, shutter should not trip.

c. *Installation and Adjustment of Shutter Cable Release.*

(1) Insert shutter release return spring and shutter release knob into shutter release bushing.

(2) Depress shutter release knob until the bottom edge is even with the top edge of the shutter release bezel.

(3) Position shutter release tip on the opposite end of the cable and crimp in place.

(4) Insert shutter release cable assembly into camera body. Shutter cocking arm should be in the up or uncocked position.

(5) Feed shutter release cable through wire tab on the bellows assembly.

(6) Position the shutter release knob so that the printed numeral is upright when camera is held in the normal operating position.

(7) Slip shutter release cable under cable release cover and fit it loosely against the end slot on the shutter release block.

(8) Center shutter release cable firmly under release cover tab and tighten the three screws.

(9) Check the shutter release action per *b* above. If the shutter release action is improper, loosen the cable release cover and adjust the position of the cable to provide faster or more delayed tripping action.

3-23. Final Adjustment of Finder Assembly

Final adjustment is performed after the preliminary adjustments have been made and the finder assembly has been mounted on the camera.

a. Mounting the Finder Assembly.

(1) Attach base plate to the finder assembly housing with three screws provided.

(2) Set spring over left hinge pin, and position finder assembly and camera body.

(3) Using the finder assembly removal and insertion tool, force the left hinge pin into place to secure the finder assembly to camera body.

b. Maximum Distance Check. Place the camera on a flat surface and focus on an upright object at least a mile away. With the focusing mechanism set at infinity, the movable image and the fixed image must be superimposed. Adjust as indicated in step *d*.

c. Minimum Distance Check. Focus on an object 3½ feet away. With the focusing mechanism set at minimum range, the movable image and the fixed image must be superimposed. Adjust as indicated in step *d*.

d. Vertical and Horizontal Adjustments.

(1) To make a horizontal adjustment, turn the top left-hand image adjusting screw at the rear of the mirror (fig. 3-11).

(2) To make a vertical adjustment, turn the top right-hand image adjusting screw at the rear of the mirror. If further adjustment is required, bend the focus bar bracket as needed.

(3) Vertical and horizontal adjustments should hold true on all ranges from 3½ feet to infinity.

(4) When all adjustments are completed, shellac the image adjusting screws at the rear of the mirror.

e. Parallax Adjustments.

(1) Frame a subject and take a picture.

(2) To adjust the Albator images, turn the sliding mask adjusting screw located behind the sliding mask assembly.

(3) Take another picture and proceed on a trial and error basis until adjustment is complete.

f. Procedures Following Adjustment.

(1) Cover all adjusting screws with shellac.

(2) Attach cover plate to range finder/viewfinder housing with two screws provided.

(3) Attach cover to range finder/viewfinder housing with three screws provided.

CHAPTER 4

DEPOT OVERHAUL STANDARDS

4-1. Applicability of Depot Overhaul Standards

Camera Set, Still Picture KS-101A, must be tested thoroughly after rebuilding or repair to insure that it meets adequate performance requirements for return to stock and reissue. Use the tests described in this chapter to measure the performance of the repaired camera equipment. It is mandatory that repaired equipment that is to be reissued, or returned to stock for reissue, meet all of the performance standards given in this chapter.

4-2. Applicable References

a. Repair Standards. Applicable procedures of the Signal Corps depots performing this test and its general standards for repaired Signal equipment form a part of the requirements for testing this equipment.

b. Technical Publications. The technical publications listed below are applicable as indicated.

<i>Equipment and subject</i>	<i>Publication</i>
Operator and Organizational Maintenance Manual Including Repair Parts and Special Tool Lists: Camera Set, Still Picture KS-101A.	TM 11-6720-239-12
Field and Depot Maintenance Manual: Camera Set, Still Picture KS-17A.	TM 11-6720-211-35

c. Modification Work Orders. Perform the work specified by Modification Work Orders pertaining to this equipment before making the test specified. DA Pam 310-7 lists all available MWO'S.

4-3. Test Facilities Required

The following test equipment, or suitable equivalents, will be used in determining compliance with the requirements of these inspection standards.

<i>Equipment</i>	<i>Federal stock No.</i>	<i>Quantity required</i>
Flashgun	Part of Camera Set	1 ea.
M3 flash bulbs	-----	1 box
Film/pack	6750-775-8835	1 ea.
Light source probe	-----	1 ea.
Test stand	-----	1 ea.
Light source	-----	1 ea.
Phototube/camera adapter	-----	1 ea.
Phototube, type 1P39	Polaroid Part No. 1P39	1 ea.
Oscilloscope, Tektronic type 502A	6625-228-2201	1 ea.
110 vac variable transformer	5950-235-2086	1 ea.
Eastman Kodak target	-----	1 ea.
Rear lens adapter unit	-----	1 ea.
10 VDC stepdown transformer	-----	1 ea.
90-volt battery	-----	1 ea.
Lamp, type 1493 or 1594	Polaroid Part No. 1493 or 1594	1 ea.
Light meter (50 to 800-foot candles)	6697-641-5083	1 ea.

4-4. General Operational Test for Camera Set KS-101A

a. Visually examine the overall appearance of the camera body. Note any obvious defects.

b. Extend the bellows and look for obvious defects.

c. Examine batteries B1 and B2 for leakage or corrosion. Replace defective batteries.

d. Cock and trip the shutter. Note obvious defects in shutter locking and tripping mechanism.

e. Look through the lens and at the same time observe the operation of the opening and closing blades.

f. Inspect the rollers as follows:

- (1) Open the rear door.
- (2) Lift the roll latch and swing out the rollers.
- (3) Inspect rollers for damage, misalignment, or dirt.

g. Plug in and operate the flashgun. Use a G. E. No. EEK test bulb or a regular M-3 flashbulb. Check to see that test bulb fires.

h. Perform the bellows light leak test in a light tight room; use a light leak probe and carefully inspect the bellows for holes.

i. Insert a film pack into the camera and take several pictures. Carefully examine the prints for defects.

4-5. Shutter Assembly Operational Test
(fig. 4-1)

a. Preliminary Connections.

(1) Set the L/D control to normal and focus for infinity.

(2) Mount the camera on the test stand with the lens and photocell flush against the corresponding openings in the light source box.

(3) Open the back of the camera and insert the phototube/camera adapter; make sure that the phototube is installed and connected as shown.

(4) Apply power to the oscilloscope, 90-volt power supply, and 110-vac variable transformer. Allow equipment to warm up for approximately 10 minutes.

- (5) Set the oscilloscope controls as follows:
 (a) Set UPPER BEAM control to AC-DC.
 (b) Set SYNC control to UPPER DC.
 (c) Set MODE SELECT control to NORMAL.
 (d) Set SENSITIVITY control to 4 CM.

NOTE

Time is measured from 1/2 open to 1/2 closed shutter.

(6) Carefully inspect the light seals between the shutter and the light source box, and between the camera back and the phototube/camera adapter.

b. Test Procedures. For each test setting in step c, proceed as follows:

- (1) Make the necessary light source and camera settings.
- (2) Cock and trip the shutter.
- (3) Read the oscilloscope and record the results.

c. Test Settings.

Light source setting	Camera settings	Correct oscilloscope indication
50 cdl _s /ft ² -----	150 dull -----	10.5ms to 16 ms
	150 bright -----	145ms to 98ms
800 cdl _s /ft ² -----	150 dull -----	0.63ms to 1.2ms
50 cdl _s /ft ² -----	75 dull -----	22ms to 35ms
3.125 cdl _s /ft ² -----	3000 dull -----	10.5ms to 20ms

d. Performance Standards for Camera Shutters. The camera shutter must perform within the indicated limits at every test setting. If any oscilloscope indication is outside the required limits, the camera is not acceptable for reissue.

4-6. Finder Assembly Operational Test

- a. Inspect for obvious damage to optical components.
- b. Focus on an object about a mile away. Check to see that the movable image is superimposed on the fixed image.
- c. Focus on an object 3 1/2 to 4 feet away. Check to see that the movable image is superimposed on the fixed image.

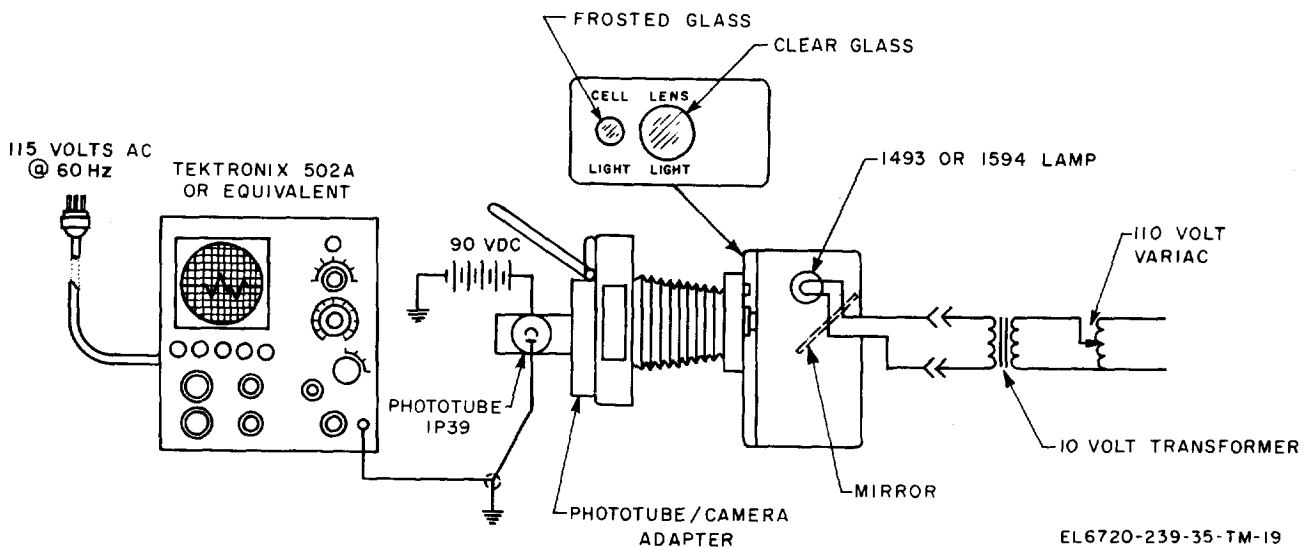


Figure 4-1. Shutter assembly operational test.

d. Frame an object and take a picture. Check to see that the parallax compensation is correct.

4-7. Lens and Finder Assembly Collimation

a. Preliminary Connections.

(1) Raise the finder assembly (fig. 4-2) to an upright position, open the camera, and fully extend the bellows.

(2) Set the L/D control all the way to the left (closest to FILM SPEED dial).

(3) Set the FILM SPEED dial to 3000.

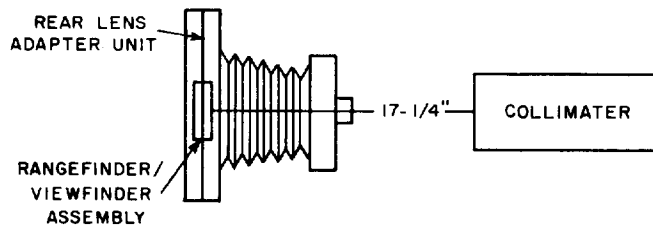
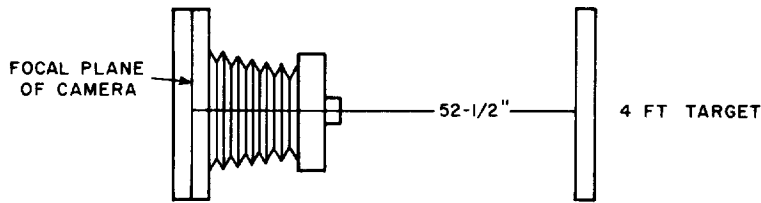
(4) Open the back of the camera; attach the camera to the test stand (fig. 4-1).

(5) Snap the rear lens adapter unit into position on the rear of the camera.

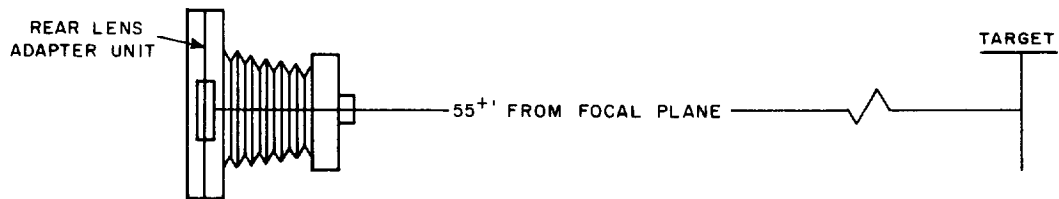
(6) Place the opaque mask over the photocell lens.

(7) Apply power to the collimator and the lamp illuminating the 4-foot target.

(8) Calibrate the collimator to provide an optimum target of 56 lines/millimeter at a focal distance of 17¼ inches.



A. DEPOT TEST SET-UP



B. FIELD TEST SET-UP

EL6720-239-35-TM-20

Figure 4-2. Collimation test.

b. Test Procedures.

- (1) Focus the finder assembly on the 4-foot target.
- (2) Holding a finger over the photocell, cock the shutter and depress and hold the SHUTTER RELEASE BUTTON.
- (3) Check the image projected on the rear adapter unit.
- (4) Focus the finder assembly on the collimator target.
- (5) Check the image projected on the rear lens adapter unit.

c. Test Settings.

Camera setting

Finder assembly focused on 4-foot target.

Finder assembly focused on collimator target.

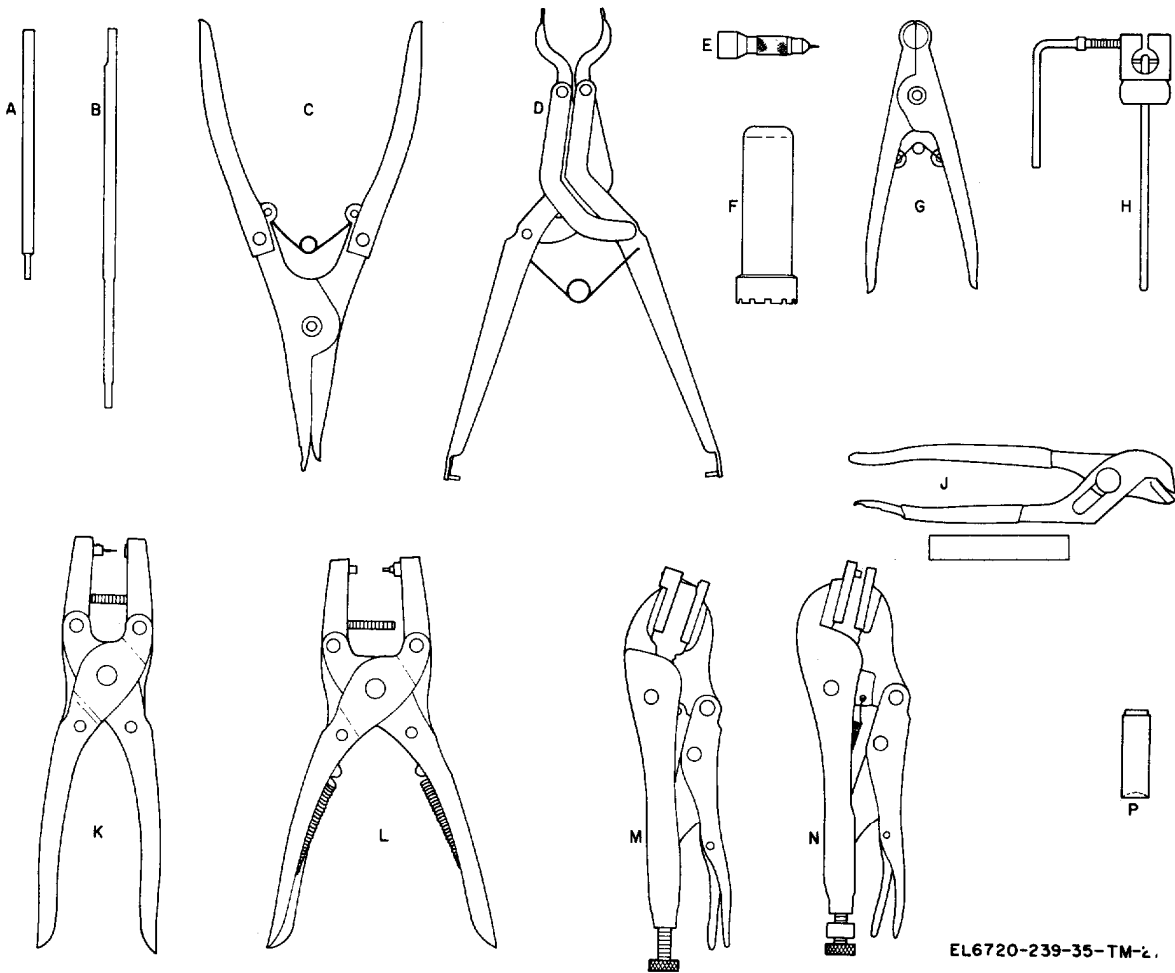
Correct indication

26 to 28 lines/millimeter projected on rear lens adapter unit.

Same as above.

d. Performance Standards for Collimation.

When the finder assembly is focused on either the 4-foot target or the collimator target, a projected image of 26 to 28 lines/millimeter should be visible on the rear lens adapter unit. If not, the front element of the lens must be loosened, using the front lens remover and focusing tool, and adjusted. The position of the front lens is adjusted to provide the minimum projected image on the rear lens adapter unit for both the 4-foot target and the collimator target. Once this is accomplished the lens must be cemented into this position.



EL6720-239-35-TM-2.

Figure 4-3. Tools for camera disassembly/reassembly.

APPENDIX A

REFERENCES

The following is a list of applicable references which are available to the field and depot maintenance personnel of Camera Set, Still Picture KS-101A.

TM 11-401	Elements of Signal Photography
TM 11-662-366-1	Organizational, DS, GS, and Depot Maintenance Manual: Multimeter TS-352B/U.
TM 11-6720-234-15	Operator, Organizational, DS, GS, and Depot Maintenance Manual: Camera Set, Still Picture Polaroid Model 100.
TM 11-6720-239-12	Operator and Organizational Maintenance Manual Including Repair Parts and Special Tool Lists: Camera Set, Still Picture KS-101A.

APPENDIX B
DIRECT SUPPORT, GENERAL SUPPORT, 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 KS-101A.

B-2. General

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

a. Repair Parts—Section II. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.

b. Special Tools, Test and Support Equipment—Section III. Not applicable.

c. Index—Federal Stock Number Cross-Reference to Figure and Item Number or Reference Designation Index—Section IV. A list of Federal stock numbers in ascending numerical sequence followed by a list of reference numbers in ascending alpha-numeric sequence, cross-referenced to illustration figure number and reference designation.

d. Index—Reference Designation Cross-Reference to Page Numbers—Section V. A list of reference designations cross-referenced to page number.

B-3. Explanation of Columns

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

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

(1) Source code indicates the selection status and source for the listed item. Source codes are—

<i>Code</i>	<i>Explanation</i>
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.

<i>Code</i>	<i>Explanation</i>
P 2	—Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
P 9	—Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC logistic system, and which are not subject to the provisions of AR 380-41.
P 10	—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 have to be manufactured in indicated maintenance levels.
A	—Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately, and can be assembled to form the required assembly at indicated maintenance categories.
X	—Parts and assemblies which are not procured or stocked and the mortality of which 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.
X 1	—Repair parts which are not procured or stocked. The requirement for such

<i>Code</i>	<i>Explanation</i>
	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.
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 and GS level or returned to depot supply level.

(2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are—

<i>Code</i>	<i>Explanation</i>
C	Operator/crew
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance

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

<i>Code</i>	<i>Explanation</i>
R	—Repair parts and assemblies that are economically repairable at DSU and GSU activities and are normally furnished by supply on an exchange basis.
S	—Repair parts and assemblies which are economically repairable 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 repairable, 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 mate-

<i>Code</i>	<i>Explanation</i>
	rials, 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. The index number has been included as a part of the description to aid in the location of “same as” items. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses.

d. Unit of Measure (U/M), Column 4. A 2-character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based; e. g., ft, ea, pr, etc.

e. Quantity Incorporated in Unit, Column 5. This column indicates the quantity of the item used in the KS-101A. Subsequent appearances of the same item in the same assembly are indicated by the letters “REF”.

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

NOTE

Allowances in GS column are for GS maintenance only.

(1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters “REF” in the applicable allowance columns. Items authorized for use as required, but not for initial stockage, are identified with an asterisk in the allowance column.

(2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. *Example*, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

g. 1-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 of the illustration in which the item is shown.

(2) *Item number or reference designation, column 10b.* Indicates the reference designation used to identify 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 the 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. Dry batteries shown are used with the equipment but are not considered part of the equipment. They will not be preshipped automatically but are to be requisitioned in quantities necessary for the particular organization, in accordance with SB 11-6.

c. Alternate items (sequence numbers A410 through A469) are items that might possibly be shipped as substitute items instead of regular items. Use these items if required.

B-5. Location of Repair Parts

a. This appendix contains two cross-reference indexes (sec. IV and sec. V) to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), or reference designation is known. The first column in each index is prepared in numerical and/or alpha-numeric sequence in ascending order. Where a Federal stock number is not listed, refer to the reference number (manufacturer's part numbers) immediately following the Federal stock number.

b. When the Federal stock number is known, follow the procedures given in (1) and (2) below.

(1) Refer to the index of Federal stock numbers (sec. IV) and locate the Federal stock number. The FSN is cross-referenced to the applicable figure and reference designation.

(2) When the reference designation is determined, refer to the reference designation index (sec. V). The reference designations are listed in alpha-numeric ascending order and are cross-referenced to the page number on which they appear in the repair parts list (sec. II). Refer to the page number noted in the index and locate the reference designation (col. 10b). If the word "REF" appears in the allowance column for the repair part, note the Federal stock number (col. 2) or manufacturer's part number (col. 3). Refer to the FSN index and note the reference designation for that FSN or part number. Refer to the reference designation index and note the page number given for the reference designation. Refer to the page noted in the RPSTL (sec. II) and locate the reference designation in column 10b of the repair parts list.

c. When the reference designation is known, follow the procedures given in *b*(2) above.

d. When neither the FSN nor reference designation is known, identify the part in the illustration and follow directions given in *c* above or scrutinize column 3 of the repair parts list (sec. II).

B-6. Federal Supply Codes for Manufacturers

<i>Code</i>	<i>Manufacturer's Name</i>
06400.....	Joint Photographic Type Designation System
47904.....	Polaroid Corp
67144.....	Zeiss Carl Inc

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

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF EAS	(5) QTY C IN UNIT	(6) 30-DAY DS NA INT ALLOWANCE			(7) SS WT			(8) YR (PER DUPLICATE CYC)	(9) EPOT AINT W PER 100 DUPLICATE	(10) ILLUSTRATIONS		
						a)	b)	(c)	b)	(c)	(a)			(b)		
						-20	-50	-100	-51	-10	FIG NO.			ITEM NO. OR REFERENCE SIGNATURE		
	720-935-381	A001 CAMERA SET, STILL PICTURE KS-101A: (This item is nonex- pendable)														
G-O-R	720-935-379	A001A CAMERA, STILL PICTURE: (This item is nonexpendable)		EA	1											
X2-F		A002 BODY ASSEMBLY, BELLOWS: 188603 (47904)		EA	1									3-1	A1	
P-F	720-880-536	A003 BELLOWS ASSEMBLY: 196378 (47904)		EA	1									3-6	A2	
X2-F	5305	A004 SCREW, BELLOWS: 76188 (47904)		EA	4									3-1	A2H1	
X2-F	720-498-247	A005 LIGHT SEAL, BE LLOWS: 157805 (47904)		EA	1									3-6	A2MP2	
X2-F	720-498-642	A006 LIGHT SEAL, FRAME, BELLOWS: 160547 (47904)		EA	1									3-1	A2MP1	
X2-F	720-498-642	A007 FLASH WIRE TAB ASSEMBLY: 204010 (47904)		EA	2									3-6	A3	
P-F	760-554-476	A008 CABLE RELEASE, WIRE TAB: 204008 (47904)		EA	1	*	*	2						3-6	A3MP3	
X2-F	6720	A009 BODY ASSEMBLY: 188604 (47904)		EA	1									3-6	A4	
P-F	340-933-394	A010 LATCH, RELEASE: 146674 (47904)		EA	1	*	*	2						3-6	A4MP4	
X2-F	5305	A011 SCREW: 121180 (47904)		EA	1									3-6	A4H2	
X2-F	6720	A012 MAGNET: 188090 (47904)		EA	1									3-6	A4E1	
P-F	340-933-516	A013 PIVOT, LATCH: 157899 (47904)		EA	1	*	*	2						3-6	A4MP5	
X2-F	6720	A014 PIVOT, MAGNET: 185640 (47904)		EA	1									3-1	A4MP6	
X2-F	6720	A015 PIVOT PAD, R. F. -V. F. : 149710 (47904)		EA	2									3-1	A4MP7	
X2-F	5999	A016 POLE PIECE: 188089 (47904)		EA	2									3-1	A4MP8	
P-F	720-911-346	A017 RELEASE ARM/ NOT THREADED: 149610 (47904)		EA	1	*	*	2						3-1	A4MP9	
X2-F	5305	A018 SCREW: SAME AS A011		EA	1									3-1	A4H2A	
P-F	720-911-347	A019 SLOT COVER: 149556 (47904)		EA	1	*	*	2						3-1	A4MP10	
X2-F	6720	A020 SPRING, MAGNET: 195194 (47904)		EA	1									3-1	A4MP11	
P-F	5340-918-801	A021 SPRING, MOUNTING PLATE: 157923 (47904)		EA	1	*	*	2						3-1	A4MP12	
P-F	5320-914-74	A022 RIVET: 121741 (47904)		EA	2	*	*	2						3-1	A4H3	

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

(1) S/R CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE		(4) N/T OF EAS	(5) QTY C IN KIT	(6) 10-DAY DS MAINT ALLOWANCE			(7) O-D SS IT			(8) YR PG M/J/T T/GC1	(9) TOT INT PER NO IP	(10) ILLUSTRATIONS		
						USABLE ON CODE	20		20		20			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION	
							20	50	20	50	20					50
P-F	5340-933-525	A023	SPRING, RELEASE LATCH: 160416 (47904)	EA	1									3-6	A4MP13	
P-F	5340-917-607	A024	RING, DEE: 160455 (47904)	EA	1									3-6	A4H4	
P-F	6720-911-391	A025	STRAP LUG: 157804 (47904)	EA	1									3-6	A4H5	
P-F	6720-614-632	A026	BAR, TAB STRIP: 163085 (47904)	EA	1									3-6	A4MP14	
P-F	5305-917-704	A027	SCREW, THB, STRIP BAR: 160465 (47904)	EA	1									3-6	A4H6	
X2-F	6720-490-569	A028	INNER FRAME BOTTOM ASSEMBLY: 154575 (47904)	EA	1									3-6	A5	
X2-F	6720	A029	INNER FRAME BOTTOM: 149601 (47904)	EA	1									3-6	A5MP15	
X1-F		A030	TRACK GUIDE: 149550 (47904)	EA	1									3-6	A5MP16	
X1-F		A031	RIVET: 157876 (47904)	EA	1									3-6	A5H7	
X2-F	6760-554-470	A032	BUSHING ASSY, SHUTTER REL: 155117 (47904)	EA	1									3-6	A6	
X2-F	6720-491-054	A033	BEZEL, SHUTTER RELEASE: 153234 (47904)	EA	1									3-6	A6MP17	
P-F	5355-498-246	A034	KNOB, SHUTTER RELEASE: 146689 (47904)	EA	1									3-6	A6MP18	
X2-F	6720	A035	PIVOT PIN, OUTER FRAME BOTTOM: 149553 (47904)	EA	1									3-6	A6MP19	
X2-F	6720-498-641	A036	SPACER, OUTER FRAME BOTTOM: 153235 (47904)	EA	1									3-6	A6H8	
X2-F	6720-490-570	A037	SPACER, OUTER FRAME TOP: 149554 (47904)	EA	1									3-6	A6H9	
P-F	5360-498-646	A038	SPRING, RETURN: 149551 (47904)	EA	1							0		3-6	A6MP20	
P-F	6720-490-570	A039	TIP, SHUTTER RELEASE: 155106 (47904)	EA	1							0		3-6	A6MP21	
X2-F	5310-239-606	A040	WASHER, SPRING: 160460 (47904)	EA	1									3-6	A6H10	
P-F	6720-490-570	A041	FOCUS BAR ASSEMBLY: 196372 (47904)	EA	1									3-6	A7	
X2-F	5320-236-934	A042	RIVET, BRAKE: 154565 (47904)	EA	1									3-6	A7H11	
X2-F	6720-490-561	A043	SLEEVE, BRAKE: 154560 (47904)	EA	1									3-6	A7H22	
X2-F	5360-498-644	A044	SPRING, BRAKE: 155120 (47904)	EA	1									3-6	A7MP23	
X2-F	5310-236-061	A045	WASHER, BRAKE: 154562 (47904)	EA	1									3-6	A7H12	
X2-F	6720	A046	BUSHING, FOCUS BAR, LEFT: 155121 (47904)	EA	1									3-6	A7H13	
X2-F	5320-498-241	A047	RIVET, FOCUS BAR: 154564 (47904)	EA	2									3-6	A7H14	

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

(1) S/R CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE USABLE ON CODE		(4) UNIT OF MEAS	(5) QTY INC. IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			30- GS WAL	NT	(8) I YF W PE QU I TGC	(9) POT LINT W PEI OO IUIP	(10) ILLUSTRATIONS				
						a)	b)	c)					a)	b)	c)	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
						-20	-50	-10					-20	-5	-10		
X2-F	6720	A048	SLEEVE, FOCUS BAR, LEFT: 154563 (47904)	EA	1								3-6	A7MP24			
X2-F	6720-912-1614	A049	SLEEVE, FOCUS BAR, RIGHT: 154561 (47904)	EA	1								3-6	A7MP25			
X2-F	6720-912-1633	A050	WASHER, FOCUS BAR, RIGHT: 154558 (47904)	EA	1								3-6	A7H15			
X2-F	6720-912-1632	A051	BRACKET, FOCUS BAR: 154559 (47904)	EA	1								3-6	A7MP26			
X2-F	5320-917-9865	A052	RIVET, FOCUS BAR: 82760 (47904)	EA	2								3-6	A7H16			
P-F	6720-498-2472	A053	FOCUS BUTTON, LEFT: 196439 (47904)	EA	1								3-6	A7MP27			
P-F	6720-496-9741	A054	FOCUS BOTTON, RIGHT: 196438 (47904)	EA	1								3-6	A7MP28			
P-F	5320	A055	RIVET : 157860 (47904)	EA	2								3-6	A7H17			
P-F	6720-912-0807	A056	FOCUS BAR PLATE: 157919 (47904)	EA	1								3-6	A7MP29			
P-F	6720-933-4037	A057	PLATE, ZONE FOCUS: 146684 (47904)	EA	1								3-6	A7MP30			
X2-F	6720-498-6421	A058	INNER FRAME TOP: 149567 (47904)	EA	1								3-6	A7MP31			
X2-F	6720-498-6419	A059	DETENT SLIDE: 149566 (47904)	EA	1								3-6	A7MP32			
X2-F	5320-498-2459	A060	RIVET : 149516 (47904)	EA	1								3-6	A7H18			
P-F	5360-236-0640	A061	SPRING, DETENT SLIDE: 157869 (47904)	EA	1								3-6	A7MP33			
P-F	6760-554-4771	A062	NECK STRAP ASSEMBLY: 163016 (47904)	EA	1								3-6	A8			
X2-F	6720	A063	BUCKEL: 157824 (47904)	EA	1								3-6	A8H19			
X2-F	6720	A064	KEEPER: 157821 (47904)	EA	1								3-6	A8H20			
X2-F	6720	A065	NECK STRAP BAND: 160573 (47904)	EA	1								3-6	A8H21			
X2-F	6720-490-5693	A066	U- FRAME ASSEMBLY: 149545 (47904)	EA	1								3-6	A9			
X2-F	6730-760-6152	A067	BUSHING, SHUTTER MOUNT: 157857 (47904)	EA	1								3-6	A9MP34			
X2-F	6720-490-5706	A068	LINK PIVOT: 149581 (47904)	EA	2								3-6	A9MP35			
X2-F	5320-497-9788	A069	RIVET, SPRING, SHUTTER MOUNT: 162912 (47904)	EA	1								3-6	A9H22			
X2-F	6720-490-5705	A070	LINK PIVOT SPACER: 149552 (47904)	EA	2								3-6	A9H23			
G-O	6760-880-5263	A071	CASE ASSEMBLY, PHOTOGRAPHIC: 322 (47904)	EA	1									A10			
P-F	6720-490-5704	A072	COVER ASSEMBLY, FRONT: 163313 (47904)	EA	1								3-2	A11			
X2-F	6720	A073	CLIP SPRING ASSEMBLY: 160549 (47904)	EA	1								3-2	A12			

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

(1) SR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE USABLE ON CODE		(4) UNIT OF MEAS.	(5) QUANTITY IN KIT	(6) 30-DAY DS ALLOWANCE			O-D A	S MUN	T	(7) YR PER UIP GCY	(8) POT INT PER NO JIP	(10) ILLUSTRATIONS	
						a) 20	b) 50	c) 100						(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
X2-F	720	1074	CLIP: 157951 (47904)	EA										3-2	A12H24
X2-F	720	1075	CLIP SPRING: 157950 (47904)	EA										3-2	A12MP36
P-F	720	1076	COLD CLIP: 163047 (47904)	EA											A13
P-F	340-919-5255	1078	HINGE, MOUNTING CLIP: 157933 (47904)	EA										3-2	A13MP37
P-F	340-919-5254	1079	HINGE PIN, MOUNTING PLATE: 160450 (47904)	EA										3-2	A13H25
X2-F	720	A080	HINGE, MOUNTING PLATE: 157934 (47904)	EA	1									3-2	A13MP38
X2-F	5320	A081	RIVET: 160449 (47904)	EA	2									3-2	A13H26
X2-F	6720	A082	LATCH PLATE: 160439 (47904)	EA	1									3-2	A13MP39
X2-F	5305	A083	SCREW: 160550 (47904)	EA	2									3-2	A13H27
P-F	720-908-9080	A084	DOOR ASSEMBLY, REAR: 146860 (47904)	EA	1		*							3-1	A14
P-F	315-403-7694	A085	HINGE PIN: 149526 (47904)	EA	1		*							3-1	A14H28
P-F	315-181-6251	A086	HINGE PLUG: 157887 (47904)	EA	2		*							3-1	A14H29
X2-F	6720	A087	COVER ASSEMBLY, REAR: 155318 (47904)	EA	1									3-1	A15
X2-F	6720	A088	REAR COVER: 146835 (47904)	EA	1									3-7	A15MP40
X2-F	6720	A089	REAR COVER SPIDER: 155312 (47904)	EA	1									3-7	A15MP41
X2-F	5320	A090	RIVET : 157830 (47904)	EA	1									3-7	A15H30
X2-F	5320	A091	RIVET: 157897 (47904)	EA	1									3-7	A15H31
P-F	1720-496-973	A092	EDGE CONTROL BAR ASSEMBLY: 163154 (47904)	EA	1		*							3-7	A16
X2-F	6720	A093	DOOR, REAR: 146834 (47904)	EA	1									3-7	A16MP42
X2-F	6720	A094	ROLL LATCH: 161121 (47904)	EA	1									3-7	A16MP43
X2-F	5320	A095	RIVET : SAME AS A091	EA	4									3-7	A16H31
X2-F	6720	A096	REAR DOOR SPIDER ASSEMBLY: 155503 (47904)	EA	1									3-7	A17
X2-F	6720	A097	REAR DOOR SPIDER: 149766 (47904)	EA	1									3-7	A17MP44
X2-F	6720	A098	HINGE, DOOR: 146688 (47904)	EA	1									3-7	A17MP45
X2-F	320-914-740	A099	RIVET : SAME AS A022	EA	3									3-7	A17H32
X2-F	6720	A100	EXIT COVER FRAME ASSEMBLY: 155282 (47904)	EA	1									3-7	A18
X2-F	320-914-740	A101	RIVET : SAME AS A022	EA	3									3-7	A18H32
X2-F	6720	A102	COVER FRAME: 146871 (47904)	EA	1									3-7	A18MP46

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT ID DEPOT MAINTENANCE (CONTINUED)

SHP CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY IN UNIT	30- (6) DS LOW			(7) GS MAR			(8) I YR W PER QUIT	(9) POT INT V PER DO UTP	(10) ILLUSTRATIONS	
						(a) -20	(b) -5C	(c) -10	(a) 0	(b) -5C	(c) -10			(a) NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
X2-F	3720	A103 GUIDE BAR, EXIT : 155340 (47904)		EA	1									3-7	A18MP47
X2-F	3320	A105 RIVET: 180402 (47904)		EA	3									3-7	A18H33
P-F	720-914-589	A106 EXIT DOOR ASSEMBLY: 157932 (47904)		EA	1									3-7	A19
P-F	360-498-646	A107 SPRING, PIVOT, EXIT DOOR: 157894 (47904)		EA	1									3-7	A19MP48
P-F	307-933-380	A108 STUD, PIVOT, EXIT DOOR: 157895 (47904)		EA	2							D		3-7	A19H34
X2-F	720-933-403	A109 PLATE, EXIT COVER: 146678 (47904)		EA	1									3-7	A19MP49
X2-F	3720	A110 DOOR SPRING: 157904 (47904)		EA	1									3-7	A19MP50
X2-F	320-914-740	A111 RIVET : SAME AS A022		EA	2									3-7	A19H32
X2-F	3720	A112 SPRING, ROLL FRAME : 157992 (47904)		EA	2									3-7	A19MP51
X2-F	320-933-488	A113 RIVET, SPRING STOP: 76121 (47904)		EA	2									3-7	A19H35
X2-F	3720	A114 FRAME ROLLER SUPPORT ASSY: 146753 (47904)		EA	1									3-7	A20
X2-F	3720	A115 FRAME ROLLER SUPPORT: 149755 (47904)		EA	1									3-7	A20MP52
X2-F	3315	A116 LATCH PIN: 160532 (47904)		EA	1									3-7	A20MP53
X2-F	6720	A117 PLATE, SLIDE: 157842 (47904)		EA	2									3-7	A20MP54
X2-F	320-914-740	A118 RIVET : SAME AS A022		EA	4									3-7	A20H32
X2-F	6720	A119 ROLL SUPPORT, FRONT, RIGHT: 155321 (47904)		EA	1									3-7	A20MP55
X2-F	6720	A120 ROLL, SUPPORT, FRONT, LEFT : 155322 (47904)		EA	1									3-7	A20MP56
X2-F	6720	A121 PIVOT, SPREAD ROLL: 157809 (47904)		EA	2									3-7	A20MP57
P-F	720-911-350	A122 ROLLER, FRONT : 149613 (47904)		EA	1	*	2					2		3-7	A20MP58
P-F	720-933-252	A123 BUSHING, ROLLER: 149517 (47904)		EA	2	*	2					8		3-7	A20MP59
P-F	720-911-382	A124 ROLLER, REAR: 149612 (47904)		EA	1	*	2					2		3-7	A20MP60
P-F	720-933-252	A125 BUSHING, ROLLER: SAME AS A123		EA	2	RE1	RE1	RE1	RE1	RE1	RE1	RE1	EF	3-7	A20MP59A
P-F	720-913-066	A126 SPRING, SPREAD ROLL : 155287 (47904)		EA	2	*	*					0		3-7	A20MP61
P-F	720-911-382	A127 SLIDE BLOCK ASSEMBLY: 155330 (47904)		EA	1	*	*					1		3-7	A21
P-F	720-914-589	A128 SHAFT, CAMERA BODY: 157838 (47904)		EA	1	*	*					1		3-7	A21MP62
P-F	340-919-525	A129 SPRING, LOCATING: 149574 (47904)		EA	2	*	*					1		3-7	A21MP63

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

(1) SFR CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY NC IN UNIT	(6)			(7)			8) YR / PE / UI / GC	9) POT / PE / UI	(10) ILLUSTRATIONS		
						30-	DS	NT	30-DA	GS	NT			a) 1G 40.	(b) ITEM NO. OR REFERENCE DESIGNATION	
						a) -20	b) -50	c) -100	a) -20	b) -50	c) -100					
P-F	340-933-462	A130 SPRING, SLIDE BLOCK: 157841 (47904)		EA	1										-7	A21MP64
X2-F	3720	A131 SLIDE BLOCK: 155329 (47904)		EA	1										-7	A21MP65
P-F	720-914-619	A1 32 COVER, SLIDE BLOCK: 163151 (47904)		EA	1										-7	A21MP66
P-F	305-917-990	A133 SCREW: 157837 (47904)		EA	3										-7	A21H36
P-F	720-914-589	A134 LINK, SLIDE BLOCK: 157839 (47904)		EA	1										-7	A21MP67
P-OR	760-900-829	A135 FLASH GUN ASSEMBLY: 268 (47904)		EA	1											A22
P-O	720-490-570	A136 FLASH CONNECTOR & CORD ASSY: 161172 (47904)		EA	1											A23
K2-O	3135	A136A CONTACT, BATTERY: 146766 (47904)		EA	1											A23MP68
K1-O		A137 SCREW, SHELF TAPPING, LH THD: 220463 (47904)		EA	1											A23H37
K1-O		A1 38 MOUNTING FOOT ASSEMBLY: 146897 (47904)		EA	1											A24
K1-O		A139 SCREW: 157849 (47904)		EA	2											A24H38
K1-O		A140 SPRING: 157911 (47904)		EA	1											A24MP69
K1-O		A141 RELEASE LEVER, MOUNTING FOOT: 155358 (47904)		EA	1											A24MP70
K1-O		A142 PIVOT, MOUNTING FOOT : 160468 (47904)		EA	1											A24MP71
K1-O		A143 COLLAR: 155342 (47904)		EA	1											A24H39
K1-O		A144 HOUSING: 143851 (47904)		EA	1											A24MP72
K1-O		A145 EJECTOR BUTTON: 146765 (47904)		EA	1											A24MP73
K1-O		A146 INSULATOR, .026 IN. THICK: 154524 (47904)		EA	1											A24E2
K1-O		A147 BATTERY CUP: 155326 (47904)		EA	1											A24MP74
K1-O		A148 PLATE, MOUNTING: 155332 (47904)		EA	1											A24MP75
K1-O		A149 SCREW: 154525 (47904)		EA	2											A24H40
	3135	A150 BATTERY, 1.5 VOLT: 144866 (47904)		EA	1											A24BT2
P-O	720-490-569	A151 REFLECTOR ASSEMBLY: 143866 (47904)		EA	1											A25
K1-O		A152 REFLECTOR: 155300 (47904)		EA	1											A25MP76
K1-O		A153 REFLECTOR SHIELD: 155328 (47904)		EA	1											A25MP77
K1-O		A154 HINGE PIN, REFLECTOR SHIELD: 157852 (47904)		EA	1											A25H41

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT AND DEPARTMENTAL MAINTENANCE (CONTINUED)

SMR CODE	FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEASUREMENT	(5) QTY IN INIT	(6) ALLOWANCE						(7) YR PE UTIL GC	(8) POT INT PERIOD	(10) ILLUSTRATIONS	
					30-DAY DS MAINT ALLOWANCE			0-DAY GS ALLOWANCE					a) FIG NO.	b) ITEM NO. OR REFERENCE DESIGNATION
					(a) 20	(b) 1-50	(c) 100	(a) 20	(b) 50	(c) 100				
X1-O		A155 SOCKET ASSEMBLY: 146893 (47904)	EA	1									A26	
X1-O		A156 SPACER, DETENT: 160597 (47904)	EA	1									A26H42	
X1-O		A157 SPRING, DETENT: 155216 (47904)	EA	1									A26MP78	
X1-O		A158 RETAINER: 163048 (47904)	EA	1									A26H43	
X1-O		A159 BATTERY ASSEMBLY 4.5 VOLT: 155285 (47904)	EA	1								-6	A26BT1	
X1-O		A160 BATTERY TERM. ARM, POS. LEAD: 160406 (47904)	EA	1								-1	A26BT1-1	
X1-F		A161 C LIP, BANDING: 130501 (47904)	EA	1								-1	A26H44	
X1-F		A162 SOCKET: 155116 (47904)	EA	1									A26H45	
X1-F		A162A EYELET: 160409 (47904)	EA	1									A26H46	
P-F	5940	A163 BATTERY CLIP: 155426 (47904)	EA	1								-6	A26H47	
P-F	305-917-990	A164 SCREW: 162914 (47904)	EA	1								-6	A26H48	
P-F	720-912-131	A165 BATTERY INTERLOCK ASSEMBLY: 157918 (47904)	EA	1								-6	A27	
X2-F	6720	A166 SPRING, CONTACT: 155177 (47904)	EA	1								-6	A27MP79	
X2-F	320-917-986	A167 RIVET, SPRING CONTACT: 157877 (47904)	EA	1								-6	A27H49	
X2-F	5970	A168 INSULATING BLOCK ASSEMBLY: 160407 (47904)	EA	1								-6	A28	
X2-F	5970	A169 INSULATOR BLOCK: 160400 (47904)	EA	1								-6	A28E3	
X2-F	5305	A170 SCREW, INSULATOR BLOCK: 160561 (47904)	EA	1								-6	A28H50	
X2-F	6720	A171 CONTACT, INTERLOCK: 160404 (47904)	EA	1								-6	A28MP80	
X2-F	720-490-566	A172 LEFT HAND GUARD ASSEMBLY: 155316 (47904)	EA	1								-6	A29	
X2-F	720-490-566	A173 FASTENER, HAND GUARD, LEFT: 162940 (47904)	EA	2								-6	A29H51	
X2-F	720-913-041	A174 RETAINER, CENTER: 160431 (47904)	EA	1								-6	A29H52	
X2-F	720-912-101	A175 LATCH, REAR COVER: 146752 (47904)	EA	1								-6	A29MP81	
X2-F	305-919-520	A176 SCREW: 160591 (47904)	EA	1								-6	A29H53	
X2-F	5940-554-470	A177 BATTERY TERMINAL ARM ASSEMBLY: 157920 (47904)	EA	1								-6	A30	
X2-F	720-914-586	A178 BATTERY TERM. ARM, NEG. LEAD: 160405 (47904)	EA	1								-6	A30E4	

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

(1) SFR CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS USABLE ON CODE	(5) QTY NO. IN UNIT	(6)			(7)			(8) # YR W PEI OUT (TGC)	(9) POT INT W PEI CO UTP	(10) ILLUSTRATIONS	
					30 a) -20	DS LOW# b) 1-50	NT c) -100	30-1 a) -20	GS WMA b) -50	NT c) -10			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
X2-F	307-933-334	A179 STUD: 155115 (47904)	EA	1									3-6	A30H54
X2-F		A180 EYELET: SAME AS A162A	EA	1									3-6	A30H46
X2-F	5720	A181 CONTACT: 155178 (47904)	EA	1									3-6	A30H55
X2-F		A182 EYELET: SAME AS A162A	EA	1									3-6	A30H46
X2-F	5720	A183 LEFT HAND GUARD: 146840 (47904)	EA	1									3-6	A30MP82
P-H	720-911-367	A184 LIGHT SEAL ASSEMBLY: 155118 (47904)	EA	1									3-6	A31
X2-H	320-916-606	A185 RIVET : 76175 (47904)	EA	4									3-6	A31H56
X2-H	340-933-352	A186 HINGE , STATIONARY: 146687 (47904)	EA	1									3-6	A31H57
P-F	320-914 -740	A187 RIVET: SAME AS A022	EA	1	RE	RE	RE	RE	RE	RE	RE	RE	3-6	A31H3
X2-H	340-937-971	A188 SPRING STOP: 149520 (47904)	EA	1									3-6	A31MP83
X2-H	320-933-488	A189 RIVET, SPRING STOP: SAME AS A113	EA	2									3-6	A31H58
X2-F	720-496-973	A190 FILLER, LEFT: 157915 (47904)	EA	1									3-6	A31H59
X2-F	720-914-589	A191 FILLER, RIGHT: 157916 (47904)	EA	1									3-6	A31H60
P-H	720-496-976	A192 RANGEFINDER VINE - FINDER ASSY: 20-1518-00-000 (67144)	EA	1						0			3-1	A32
X2-H	3315	A193 HINGE PIN, RIGHT: 20-1518-02-001 (67144)	EA	1									3-8	A32H61
P-H	340-919-534	A194 HINGE PIN, LEFT : 20-1518-02-002 (67144)	EA	1									3-8	A32H62
X2-H	3720	A195 COVER: 20-1518-00-001 (67144)	EA	1									3-8	A32MP84
X2-H	3305	A196 SCREW, COVER: 20-1518-00-003 (67144)	EA	2									3-8	A32H63
X2-H	3720	A197 RANGEFINDER HOUSING ASSEMBLY: 20-1518-01-000 (67144)	EA	1									3-8	A32MP85
X2-H	3720	A197A COVER PLATE: 20-1518-01-025 (67144)	EA	1									3-8	A32MP86
X2-H	3305	A197B SCREW: 20-1518-01-026 (67144)	EA	2									3-8	A32H64
X2-H	3720	A198 EYELENS: 20-1518-01-001 (67144)	EA	1									3-8	A32MP87
X2-H	3720	A199 SHIM, EYELENS: 20-1518-01-005 (67144)	EA	6									3-8	A32MP88
X2-H	3720	A200 BEAM SPLITTER: 20-1518-01-002 (67144)	EA	1									3-8	A32H65
X2-H	3720	A201 SPRING, BEAM SPLITTER: 20-1518-01-004 (67144)	EA	1									3-8	A32MP89
X2-H	3720	A202 LENS, OBJECTIVE: 20-1518-01-006 (67144)	EA	1									3-8	A32MP90

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

(1) SIC CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE		(4) UNIT OF EAS	(5) QUANTITY IN KIT	(7)						(8) YR PER U/P CYC	(9) NOT PER O/P	(10) ILLUSTRATIONS	
						30-	DS	IT	10-	IS	T			(a)	(b)
						20	OMA	10	20	IAN				FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
X2-H	5305	A203	SCREW: KV20-1518-3 (67144)	EA									3-8	A32H66	
X2-H	3720	A204	MAGNIFYING LENS FRAME ASSEMBLY: 20-1518-01-175U (67144)	EA									3-8	A33	
X2-H	3720	A204A	MAGNIFYING LENS: 20-1518-01-076 (67144)	EA									3-8	A33MP91	
X2-H	3720	A204E	TUBE: 20-1518-01-077 (67144)	EA									3-8	A33MP92	
X2-H	3720	A204C	SHIM: ZIN2351MS (67144)	EA									3-8	A33H67	
X2-H	5305	A205	SCREW: KV20-1518-8 (67144)	EA									3-8	A33H68	
X2-H	3720	A206	SPRING, MAGNIFYING LENS FRAME : 20-1518-01-008 (67144)	EA									3-8	A33MP93	
X2-H	3720	A207	COVER PLATE, MAGNIFYING LENS: 20-1518-01-009 (67144)	EA									3-8	A33MP94	
X2-H	3720	A208	MOVABLE IMAGE LENS HOLDER AS SY: 20-1518-01-100U (67144)	EA									3-8	A34	
X2-H	3720	A209	ADJUSTABLE LENS : 20-1518-01-014 (67144)	EA									3-8	A34MP95	
X2-H	3720	A209A	LENS HOLDER: 20-1518-01-101 (67144)	EA									3-8	A34MP96	
X2-H	5305	A210	SCREW, ADJUSTING: 20-1518-01-015 (67144)	EA									3-8	A34H69	
X2-H	5305	A210A	SCREW, ADJUSTING: ZIN2282-5S (67144)	EA									3-8	A34H70	
X2-H	3720	A211	SPRING: 20-1518-01-016 (67144)	EA									3-8	A34MP97	
X2-H	5305	A212	SCREW: 20-1518-01-031 (67144)	EA									3-8	A34H71	
X2-H	3720	A213	MOVABLE IMAGE APERTURE PLATE: 20-1518-01-010 (67144)	EA	1								3-8	A34MP98	
X2-H	5305	A214	SCREW, ADJUSTING: 20-1518-01-030 (67144)	EA	2								3-8	A34H72	
X2-H	3720	A215	SPRING: 20-1518-01-011 (67144)	EA	1								3-8	A34MP99	
X2-H	3720	A216	SPRING, MOVABLE IMAGE LENS: 20-1518-01-022 (67144)	EA	1								3-8	A34MP100	
X2-H	5340	A217	RING, RETAINING : 2ZIN2363 (67144)	EA	1								3-8	A34H73	
X2-F	3720	A218	MIRROR: 20-1518-01-012 (67144)	EA	1								3-8	A34MP101	
X2-F	5305	A219	SCREW, ADJUSTING: 20-1518-01-102 (67144)	EA	3								3-8	A34H74	
X2-F	3720	A220	SPRING, MIRROR : 20-1518-01-013A (67144)	EA	1								3-8	A34MP102	

SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT M NTE NC (CONTINUED)

(1) SNR CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS USABLE ON CODE	(5) QTY IN KIT	(6)						(8) I YF W PE QUI 7GC	(9) E POT W PEI DO U IP	(10) ILLUSTRATIONS	
					30- (a) -20	Y DS LOWAN (b) -50	INT (c) -10	30- (a) -20	GS OWAI (b) -5	NT (c) -10			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
X2-H	5305	A221 SCREW: KV20-1518-7 (67144)	EA	1								3-8	A34H75	
X2-H	6720	A222 BUSHING, ECCENTRIC : 20-1518-01-017 (67144)	EA	1								3-8	A34H76	
X2-H	6720	A223 SHIM: SAME AS A204C	EA	1								3-8	A34H67	
X2-H	5305	A224 SCREW: ZIN2511-5S (67144)	EA	1								3-8	A34H77	
X2-H	6720	A225 BUSHING: 20-1518-01-018 (67144)	EA	1								3-8	A34H78	
X2-H	6720	A226 SHIM: SAME AS A204C	EA	1								3-8	A34H68	
X2-H	5305	A227 SCREW: SAME AS A224	EA	1									A34H77A	
X2-H	6720	A228 R. F. -V. F. CAM SUB- ASSEMBLY: 20-1518 -01-120U (67144)	EA	1								3-8	A35	
X2-H	6720	A229 CAM: 20-1518-01-121 (67144)	EA	1								3-8	A35MP103	
X2-H	6720	A230 CAM SPRING: 20-1518-01-021 (67144)	EA	1								3-8	A35MP104	
X2-H	6720	A231 BUSHING: 20-1518-01-122 (67144)	EA	1								3-8	A35H79	
X2-H	6720	A232 CAM GUIDE : 20-1518-01-123 (67144)	EA	1								3-8	A35MP105	
X2-H	6720	A233 SLIDING MASK LEVER SUB-ASSY: 20-1518 -01-080U (67144)	EA	1								3-8	A36	
X2-H	5307	A234 PIVOT STUD: ZIN1312 (67144)	EA	1								3-8	A36H80	
X2-H	5340	A235 RETAINING RING: DIN6799 (67144)	EA	3								3-8	A36H81	
X2-H	6720	A236 LEVER: 20-1518-01-081 (67144)	EA	1								3-8	A36MP106	
X2-H	6720	A236A BUSHING: 20-1518-01-082 (67144)	EA	1								3-8	A36H83	
X2-H	5305	A237 SCREW: 20-1518-01-083 (67144)	EA	1								3-8	A36H82	
X2-H	5320	A238 ECCENTRIC RIVET: 20-1518-01-084 (67144)	EA	1								3-8	A36H84	
X2-H	6720	A239 SLIDING MASK SUB- ASSEMBLY: 20-1518 -01-090U (67144)	EA	1								3-8	A37	
X2-H	6720	A239A INTERLOCK, SLIDING MASK: 20-1518 -01-023 (67144)	EA	1								3-8	A37MP107	
X2-H	6720	A240 SPRING, SLIDING MASK: 20-1518-01-020A (67144)	EA	1								3-8	A37MP108	
X2-H	6720	A241 SLIDING MASK: 20-1518-01-091 (67144)	EA	1								3-8	A37MP109	
X2-H	5320	A242 RIVET: 20-1518-01-092 (67144)	EA	1								3-8	A37H85	
X2-H	5307	A243 PIVOT STUD: SAME AS A234	EA	1								3-8	A37H80	

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

(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS USABLE ON CODE	(5) QTY IN UNIT	(6)			(7)			(8) YI PE DU1 TGC	(9) POT INT PEI XO JIP	(10) ILLUSTRATIONS	
				30-	DS	IT	10-	GS	NT			(a)	(b)
				20	50	100	20	MAN	-10			NO.	ITEM NO. OR REFERENCE DESIGNATION
720	244 PARALLAX MASK SUB- ASSEMBLY: 20-1518 -01-095U (67144)	EA	1								-8	A38	
720	245 PARALLAX MASK: 20-1518-01-096 (67144)	EA	1								-8	A38MP110	
320	246 RIVET: 20-1518-01-097 (67144)	EA	1								-8	A38H86	
307	247 PIVOT STUD: SAME AS A234	EA	1								-8	A38H80	
720	248 CANTILEVER SUB- ASSEMBLY: 20-1518-01-105U (67144)	EA	1								-8	A39	
720	249 CANTILEVER: 20-1518-01-106 (67144)	EA	1								-8	A39MP111	
720	250 POST: 20-1518-01-108 (67144)	EA	1								-8	A39MP112	
320	251 RIVET: 20-1518 -01-107 (67144)	EA	1								-8	A39H87	
720	252 BASEPLATE ASSEMBLY: 20-1518 -02-000 (67144)	EA	1								-8	A40	
305	252A SCREW ASSY: ZIN2085 -58 (67144)	EA	3								-8	A40H88	
720	253 BASEPLATE SUB-ASSEM- BLY: 20-1518-02 -030U (67144)	EA	1								-8	A41	
720	254 BASEPLATE: 20-1518-02-031 (67144)	EA	1								-8	A41MP89	
720	255 SLOT PLUG, BASEPLATE: 20-1518 -20-005 (67144)	EA	1								-8	A41H90	
720	256 PLATE, MAGNET: 20-1518-02-032 (67144)	EA	1								-8	A41MP113	
307	257 PIVOT STUD: SAME AS A234	EA	2								-8	A41H91	
720	258 SHUTTER ASSEMBLY: 198744 (47904)	EA	1								-8	A42	
720	259 LIGHT SEAL, FRONT CASTING: 163301 (47904)	EA	1								-8	A42MP114	
720-490-568	A260 ETCH PLATE, TOP: 198034 (47904)	EA	1	*	*	1	*	*	2	10	1	-8	A42MP115
6720	A261 BASE BLK & ELEC MTG BLK ASSY: 188608-1 (47904)	EA	1	*	*	1	*	*	2	8	3	-8	A43
6720	A261A BASE BLK & ELEC MTG BLK ASSY: 188608-2 (47904)	EA	1	*	*	1	*	*	2	8	3	-8	A43A
6720	A261B BASE BLK & ELEC MTG BLK ASSY: 188608-3 (47904)	EA	1	*	*	1	*	*	2	8	3	-8	A43B
6720	A261C BASE BLK & ELEC MTG BLK ASSY: 188608-4 (47904)	EA	1	*	*	1	*	*	2	8	3	-8	A43C
6720	A261D BASE BLK & ELEC MTG BLK ASSY: 188608-5 (47904)	EA	1	*	*	1	*	*	2	8	3	-8	A43D

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

(1) SFR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS	(5) QTY IN UNIT	(6)			(7)			(8) 1 YR W PEI QUITY ITGTY	(9) POT INT V PE DO UIP	(10) ILLUSTRATIONS	
					30- a) -20	DS .000 b) -5c	NT c) -10	30- a) -20	GS MAN b) -5c	NT c) -10			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-F	6720	A261E BASE BLK & ELEC MTG BLK ASSY: 188608-6 (47904)	EA	1										A43E
P-F	6720	A261F BASE BLK & ELEC MTG BLK ASSY: 188608-7 (47904)	EA	1										A43F
X2-H	6720	A262 BASE BLOCK ASSEMBLY: 188610 (47904)	EA	1									3-4	A44
X2-H	6720	A263 BASE BLOCK: 143878 (47904)	EA	1									3-4	A44MP1 16
X2-H	6720	A264 BUMPER: 149869 (47904)	EA	1									3-4	A44H92
X2-H	5325	A265 BUMPER EYELET: 160562 (47904)	EA	1									3-4	A44H93
X2-H	6720	A266 PIVOT, APERTURE WHEEL: 149842 (47904)	EA	1									3-4	A44MP117
X2-H	6720	A267 PIVOT, BLADE LATCH: 149841 (47904)	EA	1									3-4	A44MP118
X2-H	6720	A268 PIVOT, COCKING ARM: 149839 (47904)	EA	1									3-4	A44MP119
X2-H	6720	A269 PIVOT, COCKING SLIDE LATCH: 149840 (47904)	EA	1									3-4	A44MP120
P-H	5315	A270 RETAINING PIN COCKING LATCH: 168169 (47904)	EA	1									3-4	A44H94
X2-H	5315	A271 SLIDE PIN, SCENE SEL. SLIDER: 149851 (47904)	EA	1									3-4	A44MP121
P-H	5930	A272 SWITCH CONTACT, BATTERY-BOTTOM: 163028 (47904)	EA	1									3-4	A44S1-1
P-H	5930	A273 SWITCH CONTACT, BATTERY-TOP: 163027 (47904)	EA	1									3-4	A44S1-2
P-H	5970	A274 INSULATOR, SWITCH: 160598 (47904)	EA	1									3-4	A44E5
P-H	5320	A275 RIVET, OVAL HEAD: 162907 (47904)	EA	1									3-4	A44H95
X2-H	6720	A276 ACTUATOR DETENT SPRING ASSEMBLY: 149780 (47904)	EA	1									3-4	A45
X2-H	5320	A277 RIVET: 155155 (47904)	EA	1									3-4	A45H96
X2-H	6720	A278 STOP, SPRING ADJUST - MENT: 149642 (47904)	EA	1									3-4	A45MP122
X2-H	5320	A279 RIVET: 155156 (47904)	EA	2									3-4	A45H97
X2-H	6720	A280 SPRING, ACTUATOR DETENT: 146761 (47904)	EA	1									3-4	A45MP123
X2-H	6720	A281 ROLLER, ACTUATOR DETENT: 155167 (47904)	EA	1									3-4	A45MP124
X2-H	5315	A282 PIN, ACTUATOR DETENT: 155166 (47904)	EA	1									3-4	A45H98
P-H	5910	A283 CAPACITOR CONTACT- INNER: 152502 (47904)	EA	1							3		3-4	A45E6

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

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS	(5) QTY PER UNIT	(6)			(7)			(8) 1 YR LW PE EQUIV CNTGCT	(9) EPO AINT W PE 100 DUIP	(10) ILLUSTRATIONS	
					30 (a) -20	Y DS (b) 1-50	INT (c) -10	30- (a) -20	GS (b) 1-5	AINT (c) 1-10			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-H	5320	A284 RIVET, OVAL HEAD: SAME AS A275	EA	1				REF	RE	REF	REF	REF	3-4	A45H99
X2-H	5910	A285 CAPACITOR CONTACT- COMMON: 149624 (47904)	EA	1									3-4	A45E7
P-H	5320	A286 RIVET, OVAL HEAD: SAME AS A284	EA	1				REF	RE	REF	REF	REF		A45H99A
P-H	6720	A287 X CONNECTOR STRIP (P/O S3 and S4): 149626 (47904)	EA	1						2	8		3-4	A45MP125
P-H	5970	A288 INSULATOR, X CONNec - TOR STRIP: 155292 (47904)	EA	1						2	8		3-4	A45E9
P-H	5910	A289 CAPACITOR CONTACT- OUTER: 149621 (47904)	EA	2						2	10		3-4	A45E8
X2-H	5910	A290 CAPACITOR CONTACT LIGHT SEAL: 157927 (47904)	EA	1									3-4	A45MP126
X2-H	5320	A291 RIVET, OVAL HEAD: 160574 (47904)	EA	2									3-4	A45H100
P-H	999-496-977	A292 FLASH CONTACT-BREAK: 149623 (47904)	EA	1						2	6		3-4	A45E10
P-H	3720	A293 ADJUSTABLE CONTACT ASSEMBLY: 155248 (47904)	EA	1						2	6		3-4	A45S2
P-H	5320	A294 RIVET: 153263 (47904)	EA	1						2	6		3-4	A45H101
X2-H	5970	A295 FLAT INSULATOR: 160413 (47904)	EA	1									3-4	A45E11
X2-H	3720	A296 S-2 BREAKER CONTACT: 155305 (47904)	EA	1									3-4	A45S2-1
X2-H	5320	A297 OVAL HEAD RIVET: 160425 (47904)	EA	1									3-4	A45H102
P-H	999-496-977	A298 X CONTACT (P/O S4): 149627 (47904)	EA	1						2	6		3-4	A45E12
P-H	3720	A299 SPRING S-2 ADJ CONTACT: 168167 (47904)	EA	1						2	6		3-4	A45MP127
P-H	5970	A300 S-2 INSULATOR: 155138 (47904)	EA	1						2	6		3-4	A45E13
P-H	3720	A301 S-2 ADJUSTABLE CONTACT: 149736 (47904)	EA	1						2	6		3-4	A45S2-2
P-H	5305	A302 S-2 ADJUSTABLE SCREW: 154881 (47904)	EA	1						2	6		3-4	A45H103
P-H	3720	A303 READOUT INDICATOR: 195916 (47904)	EA	1						2	6		3-4	A45MP128
P-H	3720	A304 READOUT INDICATOR SPRING: 157928 (47904)	EA	1						2	6		3-4	A45MP129
P-H	3720	A305 READOUT INDICATOR SLIDE PIN: 153259 (47904)	EA	1						2	3		3-4	A45H104
P-H	720-490-569	A306 COCKING SLIDE LATCH ASSEMBLY: 149649 (47904)	EA	1						2	3		3-4	A46
P-H	720-490-568	A307 COCKING SLIDE LATCH SPRING: 152501 (47904)	EA	1						2	3		3-4	A46MP130

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

(1) SNR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS	(5) QTY IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS ALLOWANCE			(8) I YF W PE QU I TGC	(9) EPO INI W PE OO NUIF	(10) ILLUSTRATIONS	
					a)	b)	c)	a)	b)	c)			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
					-20	-5	-10	-20	-5	-10				
P-H	5340	A308 RETAINING RING: 155175 (47904)	EA	1								3-4	A46H105	
K2-H	6720	A308A COCKING SLIDE LATCH: 152500 (47904)	EA	1								3-4	A46MP131	
K2-H	6720	A308B BUSHING, COCKING SLIDE LATCH; 149861 (47904)	EA	1								3-4	A46H106	
P-H	760-554-476	A309 CLOSING BLADE ASSEMBLY: 146714 (47904)	EA	1								3-4	A47	
K2-H	6720	A310 CLOSING BLADE: 152504 (47904)	EA	1								3-4	A47MP132	
K2-H	6720	A311 BLADE SPRING PIN ROLLER: 149835 (47904)	EA	1								3-4	A47MP133	
K2-H	6720	A312 BLADE SPRING PIN: 149852 (47904)	EA	1								3-4	A47H107	
K2-H	5315	A313 X BREAK PIN: 157861 (47904)	EA	1								3-4	A47E14	
K2-H	6720	A314 COLLAR: 157863 (47904)	EA	1								3-4	A47H108	
K2-H	6720	A315 CLOSING BLADE LIGHT SEAL: 155163 (47904)	EA	1								3-4	A47MP134	
K2-H	6720	A316 CLOSING BLADE LHT. SEAL RETR: 155215 (47904)	EA	1								3-4	A47H109	
K2-H	6720	A317 KEEPER: 152505 (47904)	EA	1								3-4	A47H110	
K2-H	5315	A318 KEEPER PIN: 149853 (47904)	EA	1								3-4	A47H111	
P-H	760-554-472	A319 OPENING BLADE ASSEMBLY: 146715 (47904)	EA	1								3-4	A48	
K2-H	6720	A320 OPENING BLADE: 152506 (47904)	EA	1								3-4	A48MP135	
K2-H	6720	A321 ROLLER, OPENING BLADE SPRING: 160417 (47904)	EA	1								3-4	A48MP136	
K2-H	5315	A322 BLADE SPRING PIN: SAME AS A312	EA	1								3-4	A48H112	
K2-H	6720	A323 LIGHT SEAL BLOCK: 152515 (47904)	EA	1								3-4	A48MP137	
K2-H	6720	A324 STOP BLOCK, LIGHT SEAL: 146780 (47904)	EA	1								3-4	A48MP138	
K2-H	6720	A325 BLADE STIFFENER: 157908 (47904)	EA	1								3-4	A48MP139	
K2-H	6720	A326 BLADE LATCH PIN SPACER: 160451 (47904)	EA	1								3-4	A48H113	
K2-H	5315	A327 BLADE SATCH PIN: 149843 (47904)	EA	1								3-4	A48MP140	
K2-H	5315	A328 X MAKE PIN: 157862 (47904)	EA	1								3-4	A48E15	
K2-H	6720	A329 COLLAR: SAME AS A314	EA	1								3-4	A48H114	
K2-H	6720	A330 CLOSING BLADE STOP BRDT. ASSY: 149782 (47904)	EA	1								3-4	A49	

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

(1) S/R CODE	(2) FEDERAL STOCK NUMBER	(3) DESCR I P T I O N REFERENCE NUMBER & MFR. CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6)			30- DAY DS ALLOW	INT	30- DAY ALLOW	GS ALLOW	INT	1 YR LW PE EQUIV WTGCT	(8) EPC MAIN WP 100 QUL	(9) EPC MAIN WP 100 QUL	(10) ILLUSTRATIONS				
					(a) -20	(b) -5	(c) -10									(a) -20	(b) -5	(c) -10	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
X2-H	5320	A331 RIVET: 149844 (47904)	EA	1												3-4	A49H115			
X2-H	6720	A332 CLOSING BLADE STOP BRACKET: 149742 (47904)	EA	1												3-4	A49MP141			
X2-H	6720	A333 STOP BLOCK: 155141 (47904)	EA	1												3-4	A49MP142			
P-H	6720-498-641	A334 SHOCK PAD: 155133 (47904)	EA	1						*	*	2	6	1		3-4	A49H116			
X2-H	6720	A335 COCKING SLIDE ASSY- DESIGN 2: 181113 (47904)	EA	1												3-4	A50			
X2-H	6720	A336 COCKING SLIDE- DESIGN 2: 181112 (47904)	EA	1												3-4	A50MP143			
X2-H	6720	A337 OVERTRAVEL ARM PIVOT -DESIGN 2: 180599 (47904)	EA	1												3-4	A50MP144			
X2-H	6720	A338 APERTURE WHEEL SPACER: 180433 (47904)	EA	1												3-4	A50H117			
X2-H	6720	A339 OVERTRAVEL ARM SPRING-DSGN 2: 183026 (47904)	EA	1												3-4	A50MP145			
X2-H	6720	A340 OVERTRAVEL ARM: 183029 (47904)	EA	1												3-4	A50MP146			
X2-H	5315	A341 SLIDE PIN: 149858 (47904)	EA	1												3-4	A50MP147			
X2-H	6720	A342 ROLLER: 149859 (47904)	EA	1												3-4	A50MP148			
X2-H	6720	A343 ROLLER BEARING: 149860 (47904)	EA	1												3-4	A50MP149			
X2-H	6720	A345 SPRING, COCKING ARM: 149864 (47904)	EA	1												3-4	A50H118			
P-H	5340	A346 COCKING ARM ASSEMBLY: 181131 (47904)	EA	1									3			3-4	A51			
P-H	5340	A347 RING, RETAINING: 155161 (47904)	EA	1									3			3-4	A51MP150			
P-H	6720	A348 SPRING, CLOSING BLADE: 149643 (47904)	EA	1									3			3-4	A51MP151			
P-H	5310	A349 WASHER, RETAINING, 149868 (47904)	EA	1									3			3-4	A51H119			
P-H	5320	A350 RIVET, OVAL HEAD: 180432 (47904)	EA	1									3			3-4	A51H120			
P-H	380-498-647	A351 SPRING, OPENING BLADE: 149641 (47904)	EA	1									3			3-4	A51MP152			
P-H	5310	A352 WASHER, RETAINING, BLADE SPR: SAME AS A349	EA	1						REF	REF	REF	REF	REF			A51H119A			
P-H	5320	A353 RIVET, OVAL HEAD: SAME AS A350	EA	1						REF	REF	REF	REF	REF			A51H120A			
P-H	720-498-246	A354 REAR LIGHT BAFFLE: 155382 (47904)	EA	1									3			3-4	A51MP153			
X2-H	6720	A355 COCKING ARM: 163111 (47904)	EA	1												3-4	A51MP154			
X2-H	6720	A356 COCKING ARM BUSHING: 149883 (47904)	EA	1												3-4	A51H121			

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

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS	(5) QTY REQ'D INIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS P ALLOWANCE			(8) 1 YR W PER EQUIP NTGCY	(9) DEPOT MAINT LW PER 100 QUIP	(10) ILLUSTRATIONS		
					USABLE ON CODE	a) -20	b) 1-50	c) 1-10	a) -20	b) 21-50			c) 1-10	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-O	8720	A357 COCKING ARM BUTTON: 172607 (47904)	EA	1	*	*	2	*	*	2	10	4	3-4	A51MP155	
P-O	5320	A358 COCKING ARM RIVET: 168078 (47904)	EA	1	*	*	2	*	*	2	10	4	3-4	A51H122	
P-H	720-498-641	A359 APERTURE WHEEL ASSEMBLY: 221339 (47904)	EA	1				*	*	2	6	3	3-4	A52	
X2-H	8720	A360 FRONT LIGHT BAFFLE : 146862 (47904)	EA	1									3-4	A52MP156	
P-H	5305	A361 SCREW, FRONT LIGHT BAFFLE: 160464 (47904)	EA	2				*	*	2	8	5	3-4	A52H123	
X2-H	8720	A362 SPACER, APERTURE WHEEL: SAME AS A338	EA	1									3-4	A52H124	
P-H	720-498-641	A363 DETENT BLOCK, APERTURE: 157929 (47904)	EA	1				*	*	2	6	3	3-4	A52MP157	
X2-H	8720	A363A APERTURE WHEEL: 204758 (47904)	EA	1									3-4	A52MP158	
X2-H	5930	A364 CAPACITOR SWITCH: 146773 (47904)	EA	1									3-4	A52S5	
P-H	8720	A364A SPRING, BLADE LATCH: 152513 (47904)	EA	1				*	*	2	6	3	3-4	A52MP159	
P-H	8720	A365 BLADE LATCH ASSEMBLY: 149645 (47904)	EA	1				*	*	2	6	3	3-4	A53	
P-H	5340	A366 RING RETAINING: SAME AS A308	EA	1				REI	REI	REI	REF	REF	3-4	A53H125	
X2-H	8720	A367 BLADE LATCH: 152510 (47904)	EA	1									3-4	A53MP160	
X2-H	8720	A368 BLADE LATCH BUSHING: 149862 (47904)	EA	1									3-4	A53H126	
P-H	720-498-641	A369 MAGNET ASSEMBLY: 149640 (47904)	EA	1				*	*	2	6	4	3-4	A54	
P-H	5305	A370 SCREW, MAGNET: 160545 (47904)	EA	2				*	*	2	6	3	3-4	A54H127	
P-H	5310	A370A NUT, HEX: 160546 (47904)	EA	2				*	*	2	6	3	3-4	A54H127A	
X2-H	8720	A371 MAGNET: 149845 (47904)	EA	1									3-4	A54E1	
X2-H	8720	A372 TERMINAL -BOBBIN: 149873 (47904)	EA	2									3-4	A54L1-1, A54L1	
X2-H	8720	A373 BOBBIN ASSEMBLY: 152509 (47904)	EA	1									3-4	A55	
X2-H	8720	A374 BOBBIN: 152503 (47904)	EA	1									3-4	A55L1	
P-H	8720	A375 READOUT ACTUATOR ASSEMBLY: 178472 (47904)	EA	1				*	*	2	6	3	3-4	A56	
P-H	5340	A376 RING, RETAINING: SAME AS A347	EA	1				REI	REI	REI	REF	REF	3-4	A56H118	
X2-H	8720	A377 READOUT ACTUATOR: 149721 (47904)	EA	1									3-4	A56MP161	
X2-H	5310	A378 WASHER, LOCK: 160551 (47904)	EA	1									3-4	A56H128	
X2-H	5305	A379 SCREW, ADJ. APERTURE WHEEL: 153260 (47904)	EA	1									3-4	A56H129	

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

(1) S&R CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS.	(5) QTY INC IN UNIT	30-			(7)			(8) YR PEP QUIF TGCY	(9) EPO AJWT WPE 100 JUIP	a) 16 0.	(10) ILLUSTRATIONS (b) ITEM NO. OR REFERENCE DESIGNATION				
						a)	b)	c)	a)	b)	c)								
						-20	-50	-100	-20	-50	-100								
-H	5340	A380 RING, RETAINING : 155160 (47904)		EA	1											-4	A56H130		
2-H	6720	A381 APERTURE DETENT MOUNTING ARM: 149723 (47904)		EA	1												-4	A56MP162	
2-H	6720	A382 APERTURE DETENT: 154062 (47904)		EA	1												-4	A56MP163	
2-H	5320	A383 RIVET: 155159 (47904)		EA	2												-4	A56H131	
2-H	6720	A384 SCENE SELECTOR SLIDER ASSEMBLY: 178473 (47904)		EA	1												-4	A57	
-H	5340	A385 RING, RETAINING: SAME AS A347		EA	1				EF	EF	REF	EF	EF				-4	A57H118	
2-H	6720	A386 SCENE SELECTOR SLIDER PIVOT: 153261 (47904)		EA	1												-4	A57MP164	
2-H	6720	A387 SCENE SELECTOR SLIDER: 154063 (47904)		EA	1												-4	A57MP165	
-H	720-496-974	A388 SCENE SELECTOR SLIDER BUTTON: 196248 (47904)		EA	1												-4	A57MP166	
-H	6135	A389 BATTERY WIRE ASSEMBLY: 204007 (47904)		EA	1												-1	A58	
-H	6720	A390 ELECTRONIC MTC BLOCK ASSEMBLY: 153309-1 (47904)		EA	1												-3	A59	
-H	6720	A390A ELECTRONIC MTC BLOCK ASSEMBLY: 153309-2 (47904)		EA	1													A59A	
-H	6720	A390B ELECTRONIC MTC BLOCK ASSEMBLY: 153309-3 (47904)		EA	1													A59B	
-H	6720	A390C ELECTRONIC MTC BLOCK ASSEMBLY: 153309-4 (47904)		EA	1													A59C	
-H	6720	A390D ELECTRONIC MTC BLOCK ASSEMBLY: 153309-5 (47904)		EA	1													A59D	
-H	6720	A390E ELECTRONIC MTC BLOCK ASSEMBLY: 153309-6 (47904)		EA	1													A59E	
-H	6720	A390F ELECTRONIC MTC BLOCK ASSEMBLY: 153309-7 (47904)		EA	1													A59F	
-H	5305	A391 SCREW: 149817 (47904)		EA	2													-3	A59H132
2-H	6720	A392 ELECTRONIC MOUNTING BLOCK: 143865 (47904)		EA	1													-5	A59MP167
-H	6720	A393 FLEXIBLE CIRCUIT ASSEMBLY: 153325 (47904)		EA	1													-5	A60
2-H	5905	A394 RESISTOR, VARIABLE: 146777 (47904)		EA	2													-5	A60R1
2-H	5905	A395 RESISTOR, VARIABLE: SAME AS A394		EA	RE 1													-5	A60R3

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

SHR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS ALLOWANCE			(8) YR PER SUP CYC	(9) DOT INT PER NO	(10) ILLUSTRATIONS	
						a)	b)	c)	a)	b)	c)			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
						-20	-50	-10	-20	-50	-10				
K2-H	3720	A396 PHOTOCELL, CAD SULPHIDE-BLUE: 155249-1 (47904)		EA	1									-5	A60V1
K2-H	5905	A397 RESISTOR, 10K: 155153-1 (47904)		EA	1									-5	A60R2
K2-H	5905	A398 RESISTOR, 1. 8K: 155149-1 (47904)		EA	1									-5	A60R4
K2-H	5905	A399 RESISTOR, 68K: 155150-1 (47904)		EA	1									-5	A60R5
K2-H	5905	A400 RESISTOR, 120 OHMS: 155151-1 (47904)		EA	1									-5	A60R6
K2-H	5905	A401 RESISTOR, 3. 3K: 155152-1 (47904)		EA	1									-5	A60R7
K2-H	5905	A402 RESISTOR, 120K: 160408-1 (47904)		EA	1									-5	A60R8
K2-H	5910	A403 CAPACITOR: 155145-1 (47904)		EA	1									-5	A60C1
K2-H	5910	A404 CAPACITOR: 155146-1 (47904)		EA	1									-5	A60C2
K2-H	5910	A405 CAPACITOR: 155147-1 (47904)		EA	1									-5	A60C3
K2-H	5910	A406 CAPACITOR : 155148-1 (47904)		EA	1									-5	A60C4
K2-H	5910	A407 CAPACITOR: 155162 (47904)		EA	1									-5	A60C5
K2-H	5961	A408 TRANSISTOR: 152553 (47904)		EA	1									-5	A60Q1
K2-H	5961	A409 TRANSISTOR: 152552 (47904)		EA	1									-5	A60Q2
K2-H	3720	A410 PHOTOCELL, CAD SULPHIDE-BLACK (ALT. FOR A60V1): 155249-2 (47904)		EA	1									-5	
X2-H	5905	A411 RESISTOR, 1. 5K (ALT. FOR A60R4): 155149-2 (47904)		EA	1									-5	
X2-H	5905	A412 RESISTOR, 56K (ALT. FOR A60R5): 155150-2 (47904)		EA	1									-5	
X2-H	5905	A413 RESISTOR, 100 OHMS: (ALT. FOR A60R6) 155151-2 (47904)		EA	1									-5	
X2-H	5905	A414 RESISTOR, 3. 3K: (ALT. FOR A60R7) 155152-2 (47904)		EA	1									-3	
X2-H	5905	A415 RESISTOR, 120K: (ALT. FOR A60R8) 160408-2 (47904)		EA	1									-5	
X2-H	5910	A416 CAPACITOR : (ALT. FOR A60C1) 155145-2 (47904)		EA	1									-5	
X2-H	5910	A417 CAPACITOR: (ALT. FOR A60C2) 155146-2 (47904)		EA	1									-5	

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

(1) S/R CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS	(5) QTY NC IN UNIT	(6) 30- DAY DS MA INT ALLOWANCE			(7) 30- GS NT			(8) 1 YR W PEI QUIF IT&C1	9) POT INT Y PER DO UIP	(10) ILLUSTRATIONS	
					(a) -20	(b) -50	(c) -10	(a) -20	(b) -50	(c) -10			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
K2-H	5910	A418 CAPACITOR: (ALT. FOR A60C3) 155147-2 (47904)	EA	1									3-5	
K2-H	5910	A419 CAPACITOR: (ALT. FOR A60C4) 155148-2 (47904)	EA	1									3-5	
K2-H	6720	A420 PHOTOCELL, CAD SULPHIDE-RED: (ALT. FOR A60V1) 155247-3 (47904)	EA	1									3-5	
K2-H	5905	A421 RESISTOR, 1.2K: (ALT. FOR A60R4) 155149-3 (47904)	EA	1									3-5	
K2-H	5905	A422 RESISTOR, 47K: (ALT. FOR A60R5) 155150-3 (47904)	EA	1									3-5	
K2-H	5905	A423 RESISTOR, 91 OHMS: (ALT. FOR A60R6) 155151-3 (47904)	EA	1									3-5	
K2-H	5905	A424 RESISTOR, 2.7K: (ALT. FOR A60R7) 155152-3 (47904)	EA	1									3-5	
K2-H	5905	A425 RESISTOR, 100K: (ALT. FOR A60R8) 160408-3 (47904)	EA	1									3-5	
K2-H	5910	A426 CAPACITOR: (ALT. FOR A60C1) 155145-3 (47904)	EA	1									3-5	
K2-H	5910	A427 CAPACITOR: (ALT. FOR A60C2) 155146-3 (47904)	EA	1									3-5	
K2-H	5910	A428 CAPACITOR: (ALT. FOR A60C3) 155176-3 (47904)	EA	1									3-5	
K2-H	5910	A429 CAPACITOR: (ALT. FOR A60C4) 155148-3 (47904)	EA	1									3-5	
K2-H	6720	A430 PHOTOCELL, CAD SULPH. -YELLOW: (ALT. FOR A60V1) 155249-4 (47904)	EA	1									3-5	
K2-H	5905	A431 RESISTOR, 1.2K: (ALT. FOR A60R4) 155149-4 (47904)	EA	1									3-5	
K2-H	5905	A432 RESISTOR, 47K: (ALT. FOR A60R5) 155150-4 (47904)	EA	1									3-5	
K2-H	5905	A433 RESISTOR, 82 OHMS: (ALT. FOR A60R6) 155151-4 (47904)	EA	1									3-5	
K2-H	5905	A434 RESISTOR, 2.2K: (ALT. FOR A60R7) 155152-4 (47904)	EA	1									3-5	
K2-H	5905	A435 RESISTOR, 82K: (ALT. FOR A60R8) 160408-4 (47904)	EA	1									3-5	

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

(1) S/R CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY IN UNIT	(6)			30- DAY DS ALLOW	INT	30- DAY DS ALLOW	GS MAY	NT	(8) 1 YR WPE QUIF TOC	(9) EPOI AINT WPE 100 QUIP	(10) ILLUSTRATIONS		
						(a) -20	(b) -50	(c) -10								(a) -20	(b) -50	(c) -100
K2-H	5910	A436 CAPACITOR: (ALT. FOR A60C1) 155145-4 (47904)		EA	1												3-5	
K2-H	5910	A437 CAPACITOR: (ALT. FOR A60C2) 155146-4 (47904)		EA	1												3-5	
K2-H	5910	A438 CAPACITOR: (ALT. FOR A60C3) 155147-4 (47904)		EA	1												3-5	
K2-H	5910	A439 CAPACITOR: (ALT. FOR A60C4) 155148-4 (47904)		EA	1												3-5	
K2-H	6720	A440 PHOTOCELL, CAD SULPHIDE-GREEN (ALT. FOR A60V1) 155429-5 (47904)		EA	1												3-5	
K2-H	5905	A441 RESISTOR, 1K: (ALT. FOR A60R4) 155149-5 (47904)		EA	1												3-5	
K2-H	5905	A442 RESISTOR, 39K: (ALT. FOR A60R5) 155150-5 (47904)		EA	1												3-5	
K2-H	5905	A443 RESISTOR, 68 OHMS: (ALT. FOR A60R6) 155151-5 (47904)		EA	1												3-5	
K2-H	5905	A444 RESISTOR, 2.2K: (ALT. FOR A60R7) 155152-5 (47904)		EA	1												3-5	
K2-H	5905	A445 RESISTOR: (ALT. FOR A60R8) 180408-5 (47904)		EA	1												3-5	
K2-H	5910	A446 CAPACITOR: (ALT. FOR A60C1) 155145-5 (47904)		EA	1												3-5	
K2-H	5910	A447 CAPACITOR: (ALT. FOR A60C2) 155146-5 (47904)		EA	1												3-5	
K2-H	5910	A448 CAPACITOR: (ALT. FOR A60C2) 155147-5 (47904)		EA	1												3-5	
K2-H	5910	A449 CAPACITOR: (ALT. FOR A60C4) 155148-5 (47904)		EA	1												3-5	
K2-H	6720	A450 PHOTOCELL, CAP SULPHIDE-WHITE: (ALT. FOR A60V1) 155249-6 (47904)		EA	1												3-5	
K2-H	5905	A451 RESISTOR, 820 OHMS: (ALT. FOR A60R4) 155149-6 (47904)		EA	1												3-5	
K2-H	5905	A452 RESISTOR, 33K: (ALT. FOR A60R5) 155150-6 (47904)		EA	1												3-5	
K2-H	5905	A453 RESISTOR, 62 OHMS: (ALT. FOR A60R6) 155151-6 (47904)		EA	1												3-5	

SECTION II REPAIR PARTS FOR DIRECT : PPC , G ERAL SUPPOR ND DEPOT MAINTENANCE (CONTINUED)

(1) SMP CODE	(2) FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY REQ MIT	(6) 30- DAY DS MAINT ALLOWANCE			(7) 10- MT			(8) YR TYPE TOLL TGC	(9) POT INT PER NO JIP	(10) ILLUSTRATIONS	
						a) 20	b) -50	c) -10	a) 20	b) -10	(b) ITEM NO. OR REFERENCE DESIGNATION			(c) NO.	
X2-H	5905	A454 RESISTOR, 1. 8K: (ALT. FOR A60R7) 155152-6 (47904)		EA	1									3-5	
X2-H	5905	A455 RESISTOR, 68K: (ALT. FOR A60R8) 180408-6 (47904)		EA	1									3-5	
X2-H	5910	A456 CAPACITOR: (ALT. FOR A60C1) 155145-6 (47904)		EA	1									3-5	
X2-H	5910	A457 CAPACITOR: (ALT. FOR A60C2) 155146-6 (47904)		EA	1									3-5	
X2-H	5910	A458 CAPACITOR: (ALT. FOR A60C3) 155147-6 (47904)		EA	1									3-5	
X2-H	5910	A459 CAPACITOR: (ALT. FOR A60C4) 155148-6 (47904)		EA	1									3-5	
X2-H	6720	A460 PHOTOCELL, CAD SULPHIDE-ORANGE (ALT. FOR A60V1) 155249-7 (47904)		EA	1									3-5	
X2-H	5905	A461 RESISTOR, 680 OHMS: (ALT. FOR A60R4) 155149-7 (47904)		EA	1									3-5	
X2-H	5905	A462 RESISTOR, 27K: (ALT. FOR A60R5) 155150-7 (47904)		EA	1									3-5	
X2-H	5905	A463 RESISTOR, 51 OHMS: (ALT. FOR A60R6) 155151-7 (47904)		EA	1									3-5	
X2-H	5905	A464 RESISTOR, 1. 5K: (ALT. FOR A60R7) 155152-7 (47904)		EA	1									3-5	
X2-H	5905	A465 RESISTOR, 56K: (ALT. FOR A60R8) 180408-7 (47904)		EA	1									3-5	
X2-H	5910	A466 CAPACITOR: (ALT. FOR A60C1) 155145 -7 (47904)		EA	1									3-5	
X2-H	5910	A467 CAPACITOR: (ALT. FOR A60C2) 155146-7 (47904)		EA	1									3-5	
X2-H	5910	A468 CAPACITOR: (ALT. FOR A60C3) 155147-7 (47904)		EA	1									3-5	
X2-H	5910	A469 CAPACITOR: (ALT. FOR A60C4) 155148-7 (47904)		EA	1									3-5	
P-H	720-496-97	A470 SHUTTER FRONT CASTING ASSY: 188609 (47904)		EA	1									3-3	A61
X2-H	6720	A471 SHUTTER CASTING FRONT: 143870 (47904)		EA	1									3-3	A61MP168
X2-H	720-911-52	A472 CELL LENS: 154071 (47904)		EA	1									3-3	A61MP169

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

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE USABLE ON CODE		(4) UNIT OF MEAS	(5) QTY NO. IN UNIT	30 DS MAINT			30-1 GS			(8) YR W PEI QUIF TGCY	(9) POT INT PPE DO UIP	(10) ILLUSTRATIONS		
						LOWANCE			MAN					NT	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
						a) -2c	b) -5c	c) -10	a) -20	b) -5c	c) -10					
X2-H	6720-912-130	A473	CELL LENS MOUNT: 154856 (47904)	EA	1										3-3	A61MP170
X2-H	6720-912-130	A474	CELL LENS RETAINER: 154857 (47904)	EA	1										3-3	A61MP171
X2-H	5310-917-990	A475	WASHER, WAVE: 155179 (47904)	EA	1										3-3 A	A61H133
P-H	6720	A476	BEZEL ASSEMBLY: 204354 (47904)	EA	1										3-3	A62
P-H	5340-918-803	A477	BEZEL FRICTION SPRING: 152525 (47904)	EA	1										3-3	A62MP172
X2-H	6720-496-9740	A478	FRONT DECORATIVE PLATE: 168375 (47904)	EA	1										3-3	A62MP173
X2-H	6720	A479	BEZEL: 204133 (47904)	EA	1										3-3	A62MP174
X2-H	6720	A480	BEZEL CAP: 204131 (47904)	EA	1										3-3	A62MP175
P-F	5340-917-610	A481	BEZEL SPRING: 149813 (47904)	EA	1										3-3	A62MP176
P-F	6720-933-252	A482	CENTER RING: 149809 (47904)	EA	1										3-3	A62MP177
P-F	6720	A483	OUTER RING: 204407 (47904)	EA	1										3-3	A62MP178
X2-H	6720	A484	FLASH FILTER ACTUATOR ASSY: 153311 (47904)	EA	1										3-3	A63
X2-H	5315	A485	ACTUATOR ARM PIVOT PIN: 149829 (47904)	EA	1										3-3	A63MP179
X2-H	6720	A486	ACTUATOR ARM SPRING: 149831 (47904)	EA	1										3-3	A63MP180
P-H	5340	A487	RING, RETAINING: SAME AS A347	EA	1				(E)	(E)	(E)	(E)	(E)		3-3	A63H118
P-H	6720-496-973	A488	CELL WEDGE : 220796 (47904)	EA	1										3-3	A63MP181
P-H	5320	A489	RIVET , SHOULDER: 149838 (47904)	EA	2							10			3-3	A63H134
X2-H	5315	A490	ACTUATOR ARM FILTER PIN: 149830 (47904)	EA	1										3-3	A63MP182
X2-H	6720	A491	FLASH FILTER: 146710 (47904)	EA	1										3-3	A63MP183
X2-H	6720	A492	FLASH FILTER ACTUATOR ARM: 149828 (47904)	EA	1										3-3	A63MP184
P-H	6720-933-403	A493	MOUNT ASSEMBLY, FRONT LENS: 155235 (47904)	EA	1										3-3	A64
X2-H	6720-496-973	A494	SHUTTER REAR CASTING ASSY: 153310 (47904)	EA	1										3-3	A65
X2-H	5305	A495	MOUNTING SCREW: 149865 (47904)	EA	1										3-3	A65H135
X2-H	5305	A496	SCREW, SHORT MOUNTING: 157866 (47904)	EA	1										3-3	A65H136

SECTION II REPAIR PARTS FOR DIRECT : PPC , G ERAL SUPPORT AND DEPOT MAINTENANCE (CONTINUED)

(1) SR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) INIT OF IEAS	(5) QUAN TITY REQ D	(6)			(7)			(8) YR PER TGT CY	(9) EPO INT W PE CO U IF	(10) ILLUSTRATIONS	
					30-	DS LOWA	NT	30-I	GS WAL	NT			a) IG NO.	b) ITEM NO. OR REFERENCE DESIGNATION
					a) -20	b) -50	c) -10	a) -20	b) -5	c) -10				
P-H	305-917-990	A496A SHUTTER FASTENING SCREW: 149828 (47904)	EA	1						0		1-3	A65H138	
P-H	305-917-990	A496B SHUTTER FASTENING SCREW-TOP: 149822 (47904)	EA	1								1-3	A65H139	
X2-F	720-912-166	A497 CABLE RELEASE COVER: 149740 (47904)	EA	1								1-3	A65MP185	
P-F	305-933-525	A498 SCREW, RELEASE COVER: 154870 (47904)	EA	2	*	2				6		1-3	A65H137	
P-H	720-933-403	A499 SHUTTER MOUNT: 132498 (47904)	EA	1								1-3	A65MP186	
P-H	720-498-641	A500 SHUTTER MOUNT SPRING: 172320 (47904)	EA	1						2		1-3	A65MP187	
P-H	305-917-700	A501 SCREW, SHUTTER MOUNT: 149538 (47904)	EA	1						2		1-3	A65H140	
P-H	720-496-974	A502 SHUTTER SHAFT: 168098 (47904)	EA	1						2		1-3	A65MP188	
P-H	720-913-046	A503 SLEEVE, SHUTTER SHAFT: 168099 (47904)	EA	1						2		1-3	A65MP194	
P-H	310-917-989	A504 BOWED WASHER: 160442 (47904)	EA	1						2		1-3	A65H144	
P-H	720-912-105	A505 DETENT : 157949 (47904)	EA	1			*			2		1-3	A65MP195	
P-H	5307	A506 DETENT STUD: 160473 (47904)	EA	1			*			2		1-3	A65H145	
P-H	5310	A507 FLAT WASHER: 160440 (47904)	EA	1			*			2		1-3	A65H146	
P-H	5305	A508 SCREW: 149570 (47904)	EA	1			*			2		1-3	A65H147	
P-H	720-496-974	A509 BLOCK, SHUTTER RELEASE: 146722 (47904)	EA	1			*			2		1-3	A65MP193	
P-H	720-496-974	A510 RETAINER, RELEASE BLOCK: 152521 (47904)	EA	1			*			2		1-3	A65H142	
X2-H	6720	A511 CASTING, REAR SHUTTER: 143871 (47904)	EA	1								1-3	A65MP192	
X2-F	5305	A512 DOWEL PIN: 149821 (47904)	EA	2								1-3	A65H141	
P-H	6720	A513 GASKET , SHUTTER: 155331 (47904)	EA	1			*			2	6	1-3	A65H143	
X2-F	5970	A514 INSULATOR, ELECTRONIC MTG. BD: 157939 (07904)	EA	1								1-3	A65E16	
X2-F	760-554-47	A515 LENS , REAR POSITIVE : 155242 (47904)	EA	1								1-3	A65MP190	
X2-F	6720	A516 RETAINER, LENS: 154046 (47904)	EA	1								1-3	A65MP189	
X2-F	6720	A517 PLUG , RELEASE COVER: 160445 (47904)	EA	2								1-3	A65MP191	
P-F	6720	A518 SPRING, R. F. BODY: 149528 (47904)	EA	1	*	*	2	*	*	2	8	1-3	A65H144	

SECTION IV INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE

TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION

FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION	FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION
5305-917-7003	3-3	A65H140	6720-490-5697	3-6	A29
5305-917-7043	3-6	A4H6	6720-490-5699		A25
5305-917-9902	3-7	A21H36	6720-490-5703		A23
5305-917-9903	3-3	A65H139	6720-490-5704	3-2	A11
5305-917-9906	3-6	A26H48	6720-490-5705	3-6	A9H23
5305-917-9908	3-3	A65H138	6720-490-5706	3-6	A9MP25
5305-919-5202	3-6	A29H53	6720-490-5707	3-6	A7
5305-933-5252	3-3	A65H37	6720-490-5708	3-6	A6MP21
5307-933-3349	3-6	A30H54	6720-490-5709	3-6	A6H9
5307-933-3802	3-7	A19H34	6720-491-0549	3-6	A6MP17
5310-236-0639	3-6	A7H12	6720-496-9734	3-3	A65
5310-239-6083	3-6	A6H10	6720-496-9735	3-6	A31H59
5310-917-9899	3-1	A65H144	6720-496-9737	3-7	A16
5310-917-9909	3-3	A61H133	6720-496-9738	3-3	A63MP181
5315-181-6251	3-1	A14H29	6720-496-9739	3-3	A65H142
5315-403-7694	3-1	A14H28	6720-496-9740	3-3	A62MP173
5320-238-9349	3-6	A7H11	6720-496-9741	3-6	A7MP28
5320-497-9788	3-6	A9H22	6720-496-9742	3-3	A65MP193
5320-498-2458	3-6	A7H14	6720-496-9743	3-3	A65MP188
5320-498-2459	3-6	A7H18	6720-496-9744	3-3	A61
5320-914-7406	3-6	A4H3	6720-496-9745	3-4	A57MP166
5320-914-7406	3-7	A17H32	6720-496-9760	3-1	A32
5320-914-7406	3-7	A18H32	6720-498-2468	3-4	A51MP153
5320-914-7406	3-7	A19H32	6720-498-2470	3-6	A2MP2
5320-914-7406	3-7	A20H32	6720-498-2472	3-6	A7MP27
5320-914-7406	3-6	A31H3	6720-498-6413	3-6	A6H8
5320-916-6069	3-6	A31H56	6720-498-6414	3-4	A54
5320-917-9865	3-6	A7H16	6720-498-6415	3-4	A52MP157
5320-917-9867	3-6	A27H49	6720-498-6416	3-4	A52
5320-933-4882	3-7	A19H35	6720-498-6417	3-4	A49H116
5320-933-4882	3-6	A31H58	6720-498-6418	3-3	A65MP187
5340-917-6078	3-6	A4H4	6720-498-6419	3-6	A7MP32
5340-917-6101	3-3	A62MP176	6720-498-6420	3-6	A3
5340-918-8036	3-3	A62MP172	6720-498-6421	3-6	A7MP31
5340-918-8058	3-6	A4MP12	6720-498-6422	3-1	A2MP1
5340-919-5254	3-2	A13H25	6720-614-6329	3-6	A4MP14
5340-919-5255	3-2	A13MP37	6720-880-5368	3-6	A2
5340-919-5256	3-7	A21MP63	6720-908-9080	3-1	A14
5340-919-5348	3-8	A32H62	6720-911-3475	3-6	A4MP10
5340-933-3522	3-6	A31H57	6720-911-3495	3-6	A4MP9
5340-933-3942	3-6	A4MP4	6720-911-3501	3-7	A20MP58
5340-933-4622	3-7	A21MP64	6720-911-3671	3-6	A31
5340-933-5186	3-6	A4MP5	6720-911-3821	3-7	A20MP60
5340-933-5255	3-6	A4MP13	6720-911-3825	3-7	A21
5340-937-9717	3-6	A31MP83	6720-911-3912	3-6	A4H5
5355-498-2466	3-6	A6MP18	6720-911-5291	3-3	A61MP169
5360-236-0640	3-6	A7MP33	6720-912-0807	3-6	A7MP29
5360-498-6467	3-7	A19MP48	6720-912-1054	3-1	A65MP195
5360-498-6468	3-6	A7MP23	6720-912-1064	3-6	A29MP81
5360-498-6469	3-6	A6MP20	6720-912-1306	3-3	A61MP170
5360-498-6470	3-4	A51MP152	6720-912-1307	3-3	A61MP171
5940-554-4704	3-6	A30	6720-912-1310	3-6	A27
5999-496-9771	3-4	A45E12	6720-912-1614	3-6	A7MP25
5999-496-9772	3-4	A45E10	6720-912-1632	3-6	A7MP26
6720-490-5679	3-6	A7H22	6720-912-1633	3-6	A7H15
6720-490-5689	3-4	A46MP130	6720-912-1669	3-3	A65MP185
6720-490-5690	3-3	A42MP115	6720-913-0465	3-3	A65MP194
6720-490-5691	3-4	A46	6720-913-0477	3-6	A29H52
6720-490-5693	3-6	A9	6720-913-0660	3-7	A20MP61
6720-490-5695	3-6	A5	6720-914-5891	3-7	A21MP62
6720-490-5696	3-6	A29H51	6720-914-5892	3-7	A21MP67

SECTION IV INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE

TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION (CONTINUED)

Reference No.	Mfg. Code	Fig. No.	Ref. Desig.	Reference No.	Mfg. Code	Fig. No.	Ref. Desig.
6720-914-5893	3-6		A31H60				
6720-914-5894	3-7		A19				
6720-914-5895	3-6		A30E4				
6720-914-6192	3-7		A21MP66	146840	47904	3-6	A30MP82
6720-933-2520	3-7		A20MP59	146862	47904	3-4	A52MP156
6720-933-2520	3-7		A20MP59A	146871	47904	3-7	A18MP46
6720-933-2523	3-3		A62MP177	146893	47904		A26
6720-933-4033	3-3		A65MP186	146897	47904		A24
6720-933-4034	3-3		A64	149528	47904	3-1	A65H144
6720-933-4035	3-7		A19MP49	149550	47904	3-6	A5MP16
6720-933-4037	3-6		A7MP30	149553	47904	3-6	A6MP19
6720-935-3799				149570	47904	3-1	A65H147
6720-935-3818				149601	47904	3-6	A5MP15
6760-554-4706	3-6		A6	149621	47904	3-4	A45E8
6760-554-4725	3-4		A48	149624	47904	3-4	A45E7
6760-554-4768	3-6		A3MP3	149626	47904	3-4	A45MP125
6760-554-4769	3-4		A47	149628	47904	3-3	A63MP184
6760-554-4771	3-6		A8	149643	47904	3-4	A51MP151
6760-554-4772	3-3		A65MP190	149642	47904	3-4	A45MP122
6760-760-6152	3-6		A9MP34	149645	47904	3-4	A53
6760-880-5263			A10	149683	47904	3-4	A51H121
6760-900-8297			A22	149710	47904	3-6	A4MP7
				149721	47904	3-4	A56MP161
				149723	47904	3-4	A56MP162
				149736	47904	3-4	A45S2-2
				149742	47904	3-4	A49MP141
				149755	47904	3-7	A20MP52
				149766	47904	3-7	A17MP44
				149780	47904	3-4	A45
				149782	47904	3-4	A49
				149817	47904	3-3	A59H132
				149821	47904	3-3	A65H141
				149829	47904	3-3	A63MP179
				149830	47904	3-3	A63MP182
				149831	47909	3-3	A63MP180
				149835	47904	3-4	A47MP133
				149838	47904	3-3	A63H134
				149839	47904	3-4	A44MP119
				149840	47904	3-4	A44MP120
				149841	47904	3-4	A44MP118
				149842	47904	3-4	A44MP117
				149843	47904	3-4	A48MP140
				149844	47904	3-2	A49H115
				149845	47904	3-4	A54E1
				149851	47904	3-4	A44MP121
				149852	47904	3-4	A47H107
				149852	47904	3-4	A48H112
				149853	47904	3-4	A47H111
				149858	47904	3-4	A50MP147
				149859	47904	3-4	A50MP148
				149860	47904	3-4	A50MP149
				149861	47904	3-4	A46H106
				149862	47904	3-4	A53H126
				149864	47904	3-4	A50H118
				149865	47904	3-3	A65H135
				149868	47904	3-4	A51H119
				149868	47904	3-4	A51H119A
				149869	47904	3-4	A44H92
				149873	47904	3-4	A54L1-1
				149873	47904	3-4	A54L1-2
				152500	47904	3-4	A46MP131
Reference No.	Mfg. Code	Fig. No.	Ref. Desig.				
DIN6799	67144	3-8	A36H81				
KV20-1518-3	67144	3-8	A32H66				
KV20-1518-7	67144	3-8	A34H75				
KV20-1518-8	67144	3-8	A33H68				
ZIN1312	67144	3-8	A36H80				
ZIN1312	67144	3-8	A37H80				
ZIN1312	67144	3-8	A38H80				
ZIN1312	67144	3-3	A41H91				
ZIN2085-5S	67144	3-8	A40H88				
ZIN2282-5S	67144	3-8	A34H70				
ZIN2351MS	67144	3-8	A33H67				
ZIN2351MS	67144	3-8	A34H67				
ZIN2511-5S	67144	3-8	A34H77				
ZIN2511-5S	67144	3-8	A34H77A				
121190	47904	3-6	A4H2				
130501	47904	3-1	A26H44				
143851	47904		A24MP72				
143865	47904	3-5	A59MP167				
143870	47904	3-3	A61MP168				
143871	47904	3-3	A65MP192				
143871	47904	3-4	A44MP116				
144866	47904		A24BT2				
146688	47907	3-7	A17MP45				
146710	47904	3-3	A63MP183				
146753	47904	3-7	A20				
146761	47904	3-4	A45MP123				
146765	47904		A24MP73				
146766	47904		A23MP68				
146773	47904	3-4	A52S5				
146777	47904	3-5	A60R1				
146777	47904	3-5	A60R3				
146780	47904	3-4	A48MP138				
146834	47904	3-7	A16MP42				
146835	47904	3-7	A15MP40				

SECTION IV INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE
TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION (CONTINUED)

Reference No.	Mfg. Code	Fig. No.	Ref. Desig.	Reference No.	Mfg. Code	Fig. No.	Ref. Desig.
152502	47907	3-4	A45E6	155177	47904	3-6	A27MP79
152503	47904	3-4	A55L1	155178	47904	3-6	A30H55
152504	47904	3-4	A47MP132	155215	47904	3-4	A47H109
152505	47904	3-4	A47H110	155216	47904		A26MP78
152506	47904	3-4	A48MP135	155248	47904	3-4	A45S2
152509	47904	3-4	A55	155249-1	47904	3-5	A60V1
152510	47904	3-4	A53MP160	155282	47904	3-7	A18
152513	47904	3-4	A52MP159	155285	47904	3-6	A26BT1
152515	47904	3-4	A48MP137	155292	47904	3-4	A45E9
152552	47904	3-5	A60Q2	155300	47904		A25MP76
152553	47904	3-5	A60Q1	155305	47904	3-4	A45S2-1
153259	47904	3-4	A45H104	155312	47904	3-7	A15MP41
153260		3-4	A56H129	155318	47904	3-1	A15
153261	47904	3-4	A57MP164	155321	47904	3-7	A20MP55
153263	47904	3-4	A45H101	155322	47904	3-7	A20MP56
153309-1	47904	3-3	A59	155326	47904		A24MP74
153309-2	47904		A59A	155328	47904		A25MP77
153309-3	47904		A59B	155329	47904	3-7	A21MP65
153309-4	47904		A59C	155331	47904	3-3	A65H143
153309-5	47904		A59D	155332	47904		A24MP75
153309-6	47904		A59E	155340	47904	3-7	A18MP47
153309-7	47904		A59F	155342	47904		A24H39
153311	47904	3-3	A63	155358	47904		A24MP70
153325	47904	3-5	A60	155426	47904	3-6	A26H47
154046	47904	3-3	A65MP189	155503	47904	3-7	A17
154062	47904	3-4	A56MP163	157809	47904	3-7	A20MP57
154063	47904	3-4	A57MP165	157821	47904	3-6	A8H20
154524	47904		A24E2	157824	47904	3-6	AH19
154525	47904		A24H40	157830	47904	3-7	A15H30
154563	47904	3-6	A7MP24	157842	47904	3-7	A20MP54
154881	47904	3-4	A45H103	157849	47904		A24H38
155116	47904		A26H45	157852	47904		A25H41
155121	47904	3-6	A7H13	157860	47904	3-6	A7H17
155138	47904	3-4	A45E13	157861	47904	3-4	A47E14
155141	47904	3-4	A49MP142	157862	47904	3-4	A48E15
155145-1	47904	3-5	A60C1	157863	47904	3-4	A47H108
155146-1	47904	3-5	A60C2	157863	47904	3-4	A48H114
155147-1	47904	3-5	A60C3	157866	47904	3-3	A65H136
155138-1	47904	3-5	A60C4	157876	47904	3-6	A5H7
155149-1	47904	3-5	A60R4	157897	47904	3-7	A15H31
155150-1	47904	3-5	A60R5	157897	47904	3-7	A16H31
155151-1	47904	3-5	A60R6	157904	47904	3-7	A19MP50
155152-1	47904	3-5	A60R7	157908	47904	3-4	A48MP139
155153-1	47904	3-5	A60R2	157911	47904		A24MP69
155155	47904	3-4	A45H96	157927	47904	3-4	A45MP126
155156	47904	3-4	A45H97	157928	47904	3-4	A45MP129
155159	47904	3-4	A56H131	157934	47904	3-2	A13MP38
155160	47904	3-4	A56H130	157939	47904	3-3	A65E16
155161	47904	3-4	A51MP150	157950	47904	3-2	A12MP36
155161	47904	3-4	A56H118	157951	47904	3-2	A12H24
155161	47904	3-4	A57H118	157992	47904	3-7	A19MP51
155161	47904	3-3	A63H118	160400	47904	3-6	A28E3
155162	47904	3-5	A60C5	160402	47904	3-7	A18H33
155163	47904	3-4	A47MP134	160404	47904	3-6	A28MP80
155166	47904	3-4	A45H98	160406	47904	3-1	A26BT1-1
155167	47904	3-4	A45MP124	160407	47904	3-6	A28
155175	47904	3-4	A46H105	160408-1	47904	3-5	A60R8
155175	47904	3-4	A53H125	160409	47904		A26H46

SECTION IV INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE

TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION (CONTINUED)

Reference No.	Mfg. Code	Fig. No.	Ref. Desig.	Reference No.	Mfg. Code	Fig. No.	Ref. Desig.
160409	47904	3-6	A30H55	186608-4	47904		A43C
160409	47904	3-6	A30MP82	188608-5	47904		A43D
160413	47904	3-4	A45E11	188608-6	47904		A43E
160417	47904	3-4	A48MP136	188608-7	47904		A43F
160425	47904	3-4	A45H102	188610	47904	3-4	A44
160432	47904	3-4	A51H120	195194	47904	3-6	A4MP11
160432	47904		A51H120A	195916	47904	3-4	A45MP128
160433	47904	3-4	A50H117	198744	47904	3-1	A42
160433	47904	3-4	A52H124	20-1518-00-001	67144	3-8	A32MP84
160439	47904	3-2	A13MP39	20-1518-01-001	67144	3-6	A32MP87
160440	47904	3-1	A65H146	20-1518-01-002	67144	3-8	A32H65
160445	47904	3-3	A65MP191	20-1518-00-003	67144	3-8	A32H63
160449	47904	3-2	A13H26	20-1518-01-004	67144	3-8	A32MP89
160451	47904	3-4	A48H113	20-1518-01-005	67144	3-8	A32MP88
160464	47904	3-4	A52H123	20-1518-01-006	67144	3-8	A32MP90
160468	47904		A24MP71	20-1518-01-008	67144	3-8	A33MP93
160473	47904	3-1	A65H145	20-1518-01-008	67144	3-8	A33MP94
160532	47904	3-7	A20MP53	20-1518-01-011	67144	3-8	A34MP99
160545	47904	3-4	A54H127	20-1518-01-010	67144	3-8	A34MP98
160546	47904	3-4	A54H127A	20-1518-01-012	67144	3-8	A34MP101
160549	47904	3-2	A12	20-1518-01-013A	67144	3-8	A34MP102
160550	47904	3-2	A13H27	20-1518-01-014	67144	3-8	A34MP95
160551	47904	3-4	A56H128	20-1516-01-015	67144	3-8	A34H69
160561	47904	3-6	A26H50	20-1518-01-016	67144	3-8	A34MP97
160562	47904	3-4	A44H93	20-1518-01-017	67144	3-8	A34H76'
160573	47904	3-6	A8H21	20-1518-01-018	67144	3-8	A34H78
160574	47904	3-4	A45H100	20-1518-01-020A	67144	3-8	A37MP108
160597	47904		A26H42	20-1518-01-021	67144	3-8	A35MP104
160598	47904	3-4	A44E5	20-1518-01-022	67144	3-8	A34MP100
160599	47904	3-4	A50MP144	20-1518-01-023	67144	3-8	A37MP107
161112	47904	3-4	A50	20-1618-01-025	67144	3-8	A32MP86
161113	47904	3-4	A50	20-1518-01-026	67144	3-8	A32H64
161121	47904	3-7	A16MP43	20-1518-01-030	67144	3-8	A34H72
161131	47904	3-4	A51	20-1518-01-031	67144	3-8	A34H71
162907	47904	3-4	A44H95	20-1518-01-076	67144	3-8	A33MP91
162907	47904	3-4	A45H99	20-1518-01-077	67144	3-8	A33MP92
162907	47904		A45H99A	20-1516-01-080U	67144	3-8	A36
163026	47904	3-4	A50MP145	20-1518-01-081	67144	3-8	A36MP106
163027	47904	3-4	A44S1-2	20-1518-01-082	67144	3-8	A36H83
163028	47904	3-4	A44S1-1	20-1518-01-083	67144	3-8	A36H82
163029	47904	3-4	A50MP146	20-1518-01-084	67144	3-8	A36H84
163047	47904		A13	20-1518-01-090U	67144	3-8	A37
163048	47904		A26H43	20-1516-01-091	67144	3-8	A37MP109
163111	47904	3-4	A51	20-1518-01-092	67144	3-8	A37H85
163301	47904	3-3	A42MP114	20-1518-01-095U	67144	3-8	A38
168078	47904	3-4	A51H122	20-1518-01-096	67144	3-8	A36MP110
168167	47904	3-4	A45MP127	20-1518-01-097	67144	3-8	A38H86
168169	47904	3-4	A44H94	20-1518-01=100U	67144	3-8	A34
172607	47904	3-4	A51MP155	20-1518-01-101	67144	3-8	A34MP96
178472	47904	3-4	A56	20-1518-01-102	67144	3-8	A34H74
178473	47904	3-4	A57	20-1518-01-105U	67144	3-8	A39
185640	47904	3-6	A4MP6	20-1518-01-106	67144	3-8	A39MP111
188089	47904	3-6	A4MP8	20-1518-01-107	67144	3-8	A39H87
188090	47904	3-6	A4E1	20-1518-01-108	67144	3-8	A39MP112
188603	47904	3-1	A1	20-1518-01-120U	67144	3-8	A35
188604	47904	3-6	A4	20-1518-01-121	67144	3-8	A35MP103
188608-1	47904	3-3	A43	20-1516-01-122	67144	3-8	A35H79
188608-2	47904		A43A	20-1518-01-123	67144	3-8	A35MP105
188608-3	47904		A43B	20-1518-01-175U	67144	3-8	A33

SECTION IV INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE
TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION (CONTINUED)

<u>Reference No.</u>	<u>Mfg. Code</u>	<u>Fig. No.</u>	<u>Ref. Desig.</u>	<u>Reference No.</u>	<u>Mfg. Code</u>	<u>Fig. No.</u>	<u>Ref. Desig.</u>
20-1518-02-000	67144	3-8	A40				
20-1518-02-001	67144	3-8	A32H61				
20-1518-02-005	67144	3-8	A41H90				
20-1518-02-030U	67144	3-8	A41				
20-1518-02-031	67144	3-8	A41MP89				
20-1518-02-032	67144	3-8	A41MP113				
204007	47904	3-1	A58				
204131	47904	3-3	A62MP175				
204133	47904	3-3	A62MP174				
204354	47904	3-3	A62				
204407	47904	3-3	A62MP178				
204758	47904	3-4	A52MP158				
220463	47904		A23H37				
22IN2363	67144	3-8	A34H73				
76188	47904	3-1	A2H1				

SECTION v INDEX-REFERENCE DESIGNATION
CROSS REFERENCE TO PAGE NUMBER

REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER
A1	B-4	A9H23	B-6	A22	B-9
A2	B-4	A9MP25	B-6	A23	B-9
A2H1	B-4	A9MP34	B-6	A23H37	B-9
A2MP1	B-4	A10	B-6	A23MP68	B-9
A2MP2	B-4	A11	B-6	A24	B-9
A3	B-4	A12	B-6	A24BT2	B-9
A3MP3	B-4	A12H24	B-7	A24E2	B-9
A4	B-4	A12MP36	B-7	A24H38	B-9
A4E1	B-4	A13	B-7	A24H39	B-9
A4H2	B-4	A13H25	B-7	A24H40	B-9
A4H3	B-4	A13H26	B-7	A24MP69	B-9
A4H4	B-5	A13H27	B-7	A24MP70	B-9
A4H5	B-5	A13MP37	B-7	A24MP71	B-9
A4H6	B-5	A13MP38	B-7	A24MP72	B-9
A4MP4	B-4	A13MP39	B-7	A24MP73	B-9
A4MP5	B-4	A14	B-7	A24MP74	B-9
A4MP6	B-4	A14H28	B-7	A24MP75	B-9
A4MP7	B-4	A14H29	B-7	A25	B-9
A4MP8	B-4	A15	B-7	A25H41	B-9
A4MP9	B-4	A15H30	B-7	A25MP76	B-9
A4MP10	B-4	A15H31	B-7	A25MP77	B-9
A4MP11	B-4	A15MP40	B-7	A26	B-10
A4MP12	B-4	A15MP41	B-7	A26BT1	B-10
A4MP13	B-5	A16	B-7	A26BT1-1	B-10
A4MP14	B-5	A16H31	B-7	A26H42	B-10
A5	B-5	A16MP42	B-7	A26H43	B-10
A5H7	B-5	A16MP43	B-7	A26H44	B-10
A5MP15	B-5	A17	B-7	A26H45	B-10
A5MP16	B-5	A17H32	B-7	A26H46	B-10
A6	B-5	A17MP44	B-7	A26H47	B-10
A6H8	B-5	A17MP45	B-7	A26H48	B-10
A6H9	B-5	A18	B-7	A26MP78	B-10
A6H10	B-5	A18H32	B-7	A27	B-10
A6MP17	B-5	A18H33	B-8	A27H49	B-10
A6MP18	B-5	A18MP46	B-7	A27MP79	B-10
A6MP19	B-5	A18MP47	B-8	A28	B-10
A6MP20	B-5	A19	B-8	A28E3	B-10
A6MP21	B-5	A19H32	B-8	A28H50	B-10
A7	B-5	A19H34	B-8	A28MP80	B-10
A7H11	B-5	A19H35	B-8	A29	B-10
A7H12	B-5	A19MP48	B-8	A29H51	B-10
A7H13	B-5	A19MP49	B-8	A29H52	B-10
A7H14	B-5	A19MP50	B-8	A29H53	B-10
A7H15	B-6	A19MP51	B-8	A29MP81	B-10
A7H16	B-6	A20	B-8	A30	B-10
A7H17	B-6	A20H32	B-8	A30E4	B-10
A7H18	B-6	A20MP52	B-8	A30H54	B-11
A7H22	B-5	A20MP53	B-8	A30H55	B-11
A7MP23	B-5	A20MP54	B-8	A30MP82	B-11
A7MP24	B-6	A20MP55	B-8	A31	B-11
A7MP25	B-6	A20MP56	B-8	A31H3	B-11
A7MP26	B-6	A20MP57	B-8	A31H56	B-11
A7MP27	B-6	A20MP58	B-8	A31H57	B-11
A7MP28	B-6	A20MP59	B-8	A31H58	B-11
A7MP29	B-6	A20MP59A	B-8	A31H59	B-11
A7MP30	B-6	A20MP60	B-8	A31H60	B-11
A7MP31	B-6	A20MP61	B-8	A31MP83	B-11
A7MP32	B-6	A21	B-8	A32	B-11
A7MP33	B-6	A21H36	B-9	A32H61	B-11
A8	B-6	A21MP62	B-8	A32H62	B-11
A8H19	B-6	A21MP63	B-8	A32H63	B-11
A8H20	B-6	A21MP64	B-9	A32H64	B-11
A8H21	B-6	A21MP65	B-9	A32H65	B-11
A9	B-6	A21MP66	B-9	A32H66	B-12
A9H22	B-6	A21MP67	B-9	A32MP84	B-11

SECTION v INDEX-REFERENCE DESIGNATION
CROSS REFERENCE TO PAGE NUMBER (CONTINUED)

REFERENCE DESIGNATION	PAGE	REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE
A32MP85	B-11	A41H91	B-14	A47H108	B-17
A32MP86	B-11	A41MP89	B-14	A47H109	B-17
A32MP87	B-11	A41MP113	B-14	A47H110	B-17
A32MP88	B-11	A42	B-14	A47H111	B-17
A32UP89	B-11	A42MP114	B-14	A47MP132	B-17
A32MP90	B-11	A42MP115	B-14	A47MP133	B-17
A33	B-12	A43	B-14	A47MP134	B-17
A33H67	B-12	A43A	B-14	A48	B-17
A33H68	B-12	A43B	B-14	A48E15	B-17
A33MP91	B-12	A43C	B-14	A48H112	B-17
A33MP92	B-12	A43D	B-14	A48H113	B-17
A33KP93	B-12	A43E	B-15	A48H114	B-17
A33MP94	B-12	A43F	B-15	A48MP135	B-17
A34	B-12	A44	B-15	A48MP136	B-17
A34H67	B-13	A44E5	B-15	A48MP137	B-17
A34H68	B-13	A44H92	B-15	A48MP138	B-17
A34H69	B-12	A44H93	B-15	A48MP139	B-17
A34H70	B-12	A44H94	B-15	A48MP140	B-17
A34H71	B-12	A44H95	B-15	A49	B-17
A34H72	B-12	A44MP116	B-15	A49H115	B-18
A34H73	B-12	A44MP117	B-15	A49H116	B-18
A34H74	B-12	A44MP118	B-15	A49MP141	B-18
A34H75	B-13	A44MP119	B-15	A49MP142	B-18
A34H76	B-13	A44MP120	B-15	A50	B-18
A34H77	B-13	A44MP121	B-15	A50H117	B-18
A34H77A	B-13	A44S1-1	B-15	A50H118	B-18
A34H78	B-13	A44S1-2	B-15	A50MP143	B-18
A34MP95	B-12	A45	B-15	A50MP144	B-18
A34MP96	B-12	A45E6	B-15	A50MP145	B-18
A34MP97	B-12	A45E7	B-16	A50MP146	B-18
A34MP98	B-12	A45E8	B-16	A50MP147	B-18
A34MP99	B-12	A45E9	B-16	A50MP148	B-18
A34MP100	B-12	A45E10	B-16	A50MP149	B-18
A34MP101	B-12	A45E11	B-16	A51	B-18
A34MP102	B-12	A45E12	B-16	A51H119	B-18
A35	B-13	A45E13	B-16	A51H119A	B-18
A35H79	B-13	A45H96	B-15	A51H120	B-18
A35MP103	B-13	A45H97	B-15	A51H120A	B-18
A33MP104	B-13	A45H98	B-15	A51H121	B-18
A35MP105	B-13	A45H99	B-16	A51H122	B-19
A36	B-13	A45H99A	B-16	A51MP150	B-18
A36H80	B-13	A43H100	B-16	A51MP151	B-18
A36H81	B-13	A45H101	B-16	A51MP152	B-18
A36H82	B-13	A45H102	B-16	A51MP153	B-18
A36H83	B-13	A45H103	B-16	A51MP154	B-16
A36H84	B-13	A45H104	B-16	A51MP155	B-19
A36MP106	B-13	A45MP122	B-15	A52	B-19
A37	B-13	A45MP123	B-15	A52H123	B-19
A37H80	B-13	A45MP124	B-15	A52H124	B-19
A37H85	B-13	A45MP125	B-16	A52MP156	B-19
A37MP107	B-13	A45MP126	B-16	A52MP157	B-19
A37MP108	B-13	A45MP127	B-16	A52MP158	B-19
A37MP109	B-13	A45MP128	B-16	A52MP159	B-19
A38	B-14	A45MP129	B-16	A52S5	B-19
A38H80	B-14	A45S2	B-16	A53	B-19
A38H86	B-14	A45S2-1	B-16	A53H125	B-19
A38MP110	B-14	A45S2-2	B-16	A53H126	B-19
A39	B-14	A46	B-16	A53MP160	B-19
A39H87	B-14	A46H105	B-17	A54	B-19
A39MP111	B-14	A46H106	B-17	A54E1	B-19
A39MP112	B-14	A46MP130	B-16	A54H127	B-19
A40	B-14	A46MP131	B-17	A54H127A	B-19
A40H88	B-14	A47	B-17	A54L1-1	B-19
A41	B-14	A47E14	B-17	A54L1-2	B-19
A41H90	B-14	A47H107	B-17	A55	B-19

SECTION v INDEX-REFERENCE DESIGNATION
 CROSS REFERENCE TO PAGE NUMBER (CONTINUED)

REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER
A55L1	B-19	A64	B-25		
A56	B-19	A65	B-25		
A56H118	B-19	A65E16	B-26		
A56H128	B-19	A65H135	B-25		
A56H129	B-19	A65H136	B-25		
A56H130	B-20	A65H137	B-26		
A56H131	B-20	A65H138	B-26		
A56MP161	B-19	A65H139	B-26		
A56MP162	B-20	A65H140	B-26		
A56MP163	B-20	A65H141	B-26		
A57	B-20	A65H142	B-26		
A57H118	B-20	A65H143	B-26		
A57MP164	B-20	A65H144	B-26		
A57MP165	B-20	A65H145	B-26		
A57MP166	B-20	A65H146	B-26		
A58	B-20	A65H147	B-26		
A59	B-20	A65MP185	B-26		
A59H132	B-20	A65MP186	B-26		
A59MP167	B-20	A65MP187	B-26		
A59A	B-20	A65MP188	B-26		
A59B	B-20	A65MP189	B-26		
A59C	B-20	A65MP190	B-26		
A59D	B-20	A65MP191	B-26		
A59E	B-20	A65MP192	B-26		
A59F	B-20	A65MP193	B-26		
A60	B-20	A65MP194	B-26		
A60C1	B-21	A65MP195	B-26		
A60C2	B-21				
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A60C4	B-21				
A60C5	B-21				
A60Q1	B-21				
A60Q2	B-21				
A60R1	B-20				
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A60R5	B-21				
A60R6	B-21				
A60R7	B-21				
A60R8	B-21				
A60V1	B-21				
A61	B-24				
A61H133	B-25				
A61MP168	B-24				
A61MP169	B-24				
A61MP170	B-25				
A61MP171	B-25				
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A62MP178	B-25				
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A63H118	B-25				
A63H134	B-25				
A63MP179	B-25				
A63MP180	B-25				
A63MP181	B-25				
A63MP182	B-25				
A63MP183	B-25				
A63MP184	B-25				

By Order of the Secretary of the Army:

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

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

Distribution:

Active Army :

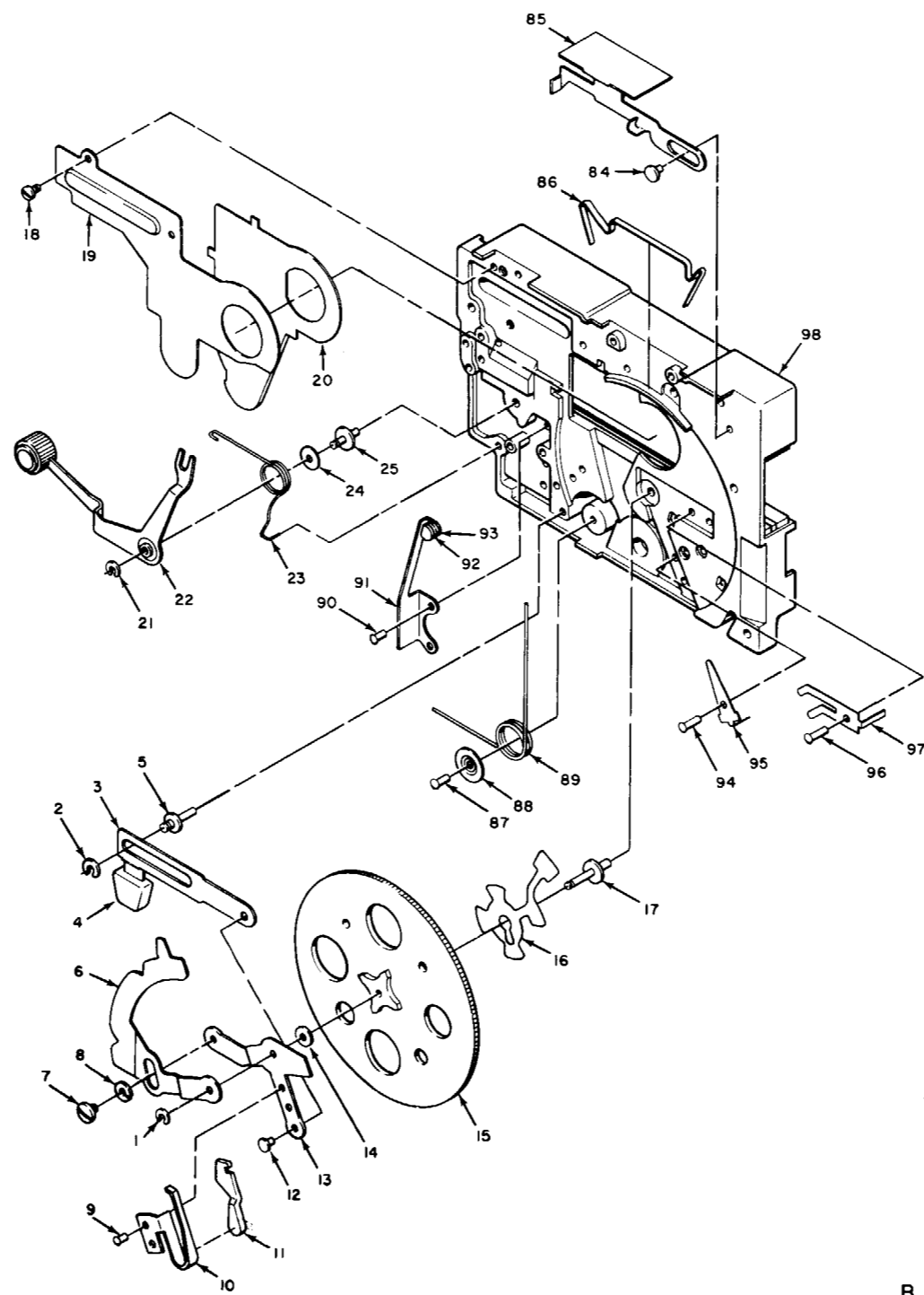
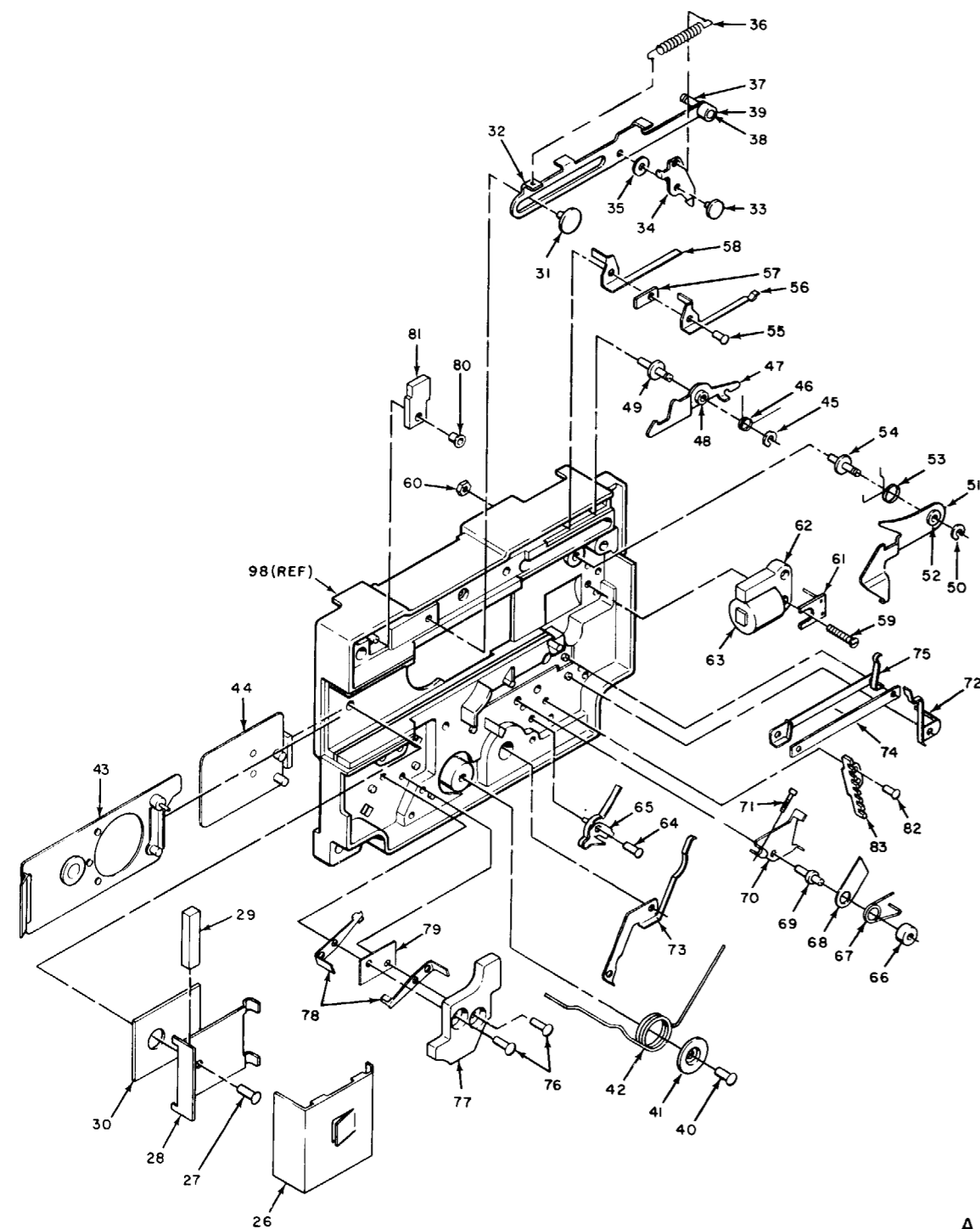
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USAES (2)
USAINTS (3)
WRAMC (1)

USACDCEC (10)
Instl (2) except
Fort Gordon (10)
Fort Huachuca (10)
WSMR (3)
Fort Carson (19)
USAPA (3)
Army Dep (2) except
LBAD (14)
SAAD (30)
TOAD (14)
LEAD (7)
NAAD (5)
SVAD (5)
ATAD (10)
Gen Dep (2)
Sig Sec Gen Dep (5)
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ATS (1)
MAAG (1)
USARMIS (1)
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(2 cys each unit):
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11-39
11-56
11-95
11-96
11-127
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11-215
11-216
11-226
11-237
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29-134

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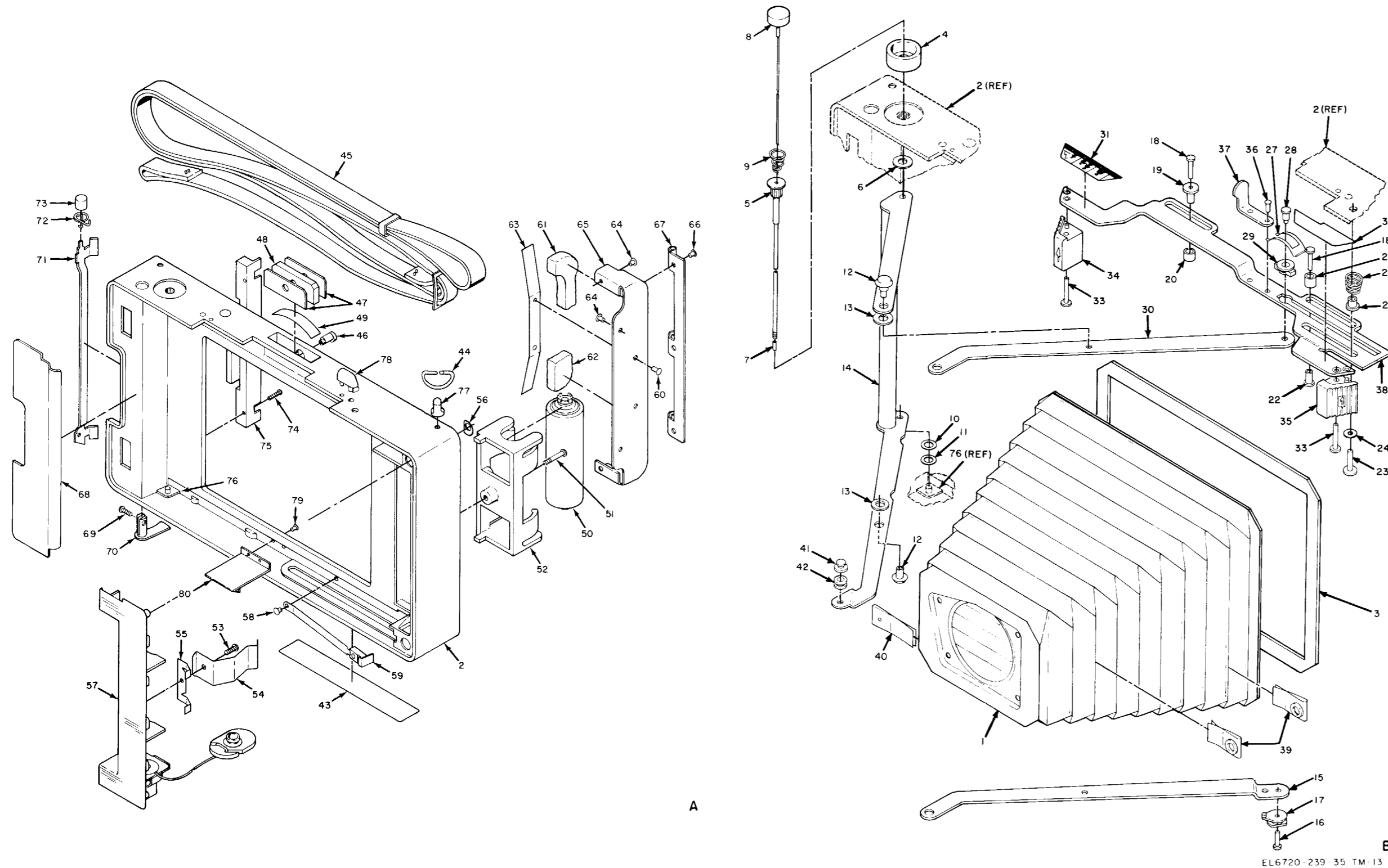
USAR: None.

For explanation of abbreviations used, see AR 310-50.



- | | |
|--|---|
| 1 Retaining ring (H130) | 50 Retaining ring (H125) |
| 2 Retaining ring (H118) | 51 Blade latch (MP160) |
| 3 Scene selector slider (MP165) | 52 Blade latch bushing (H126) |
| 4 Scene selector slider button (MP166) | 53 Blade latch spring (MP159) |
| 5 Slide pin (MP121) | 54 Blade latch pivot (MP118) |
| 6 Readout actuator (MP161) | 55 Oval head rivet (H95) |
| 7 Aperture wheel adjusting screw (H129) | 56 Top contact (P/O battery switch (S1)) |
| 8 Lock washer (H128) | 57 Switch insulator (E5) |
| 9 Rivets (H131) | 58 Bottom contact (P/O battery switch (S1)) |
| 10 Aperture detent (MP163) | 59 Magnet screws (H127) |
| 11 Aperture detent block (MP157) | 60 Magnet nut (H127A) |
| 12 Scene selector slider pivot (MP164) | 61 Bobbin terminals (A54L1-1 & 2) |
| 13 Aperture detent mounting arm (MP162) | 62 Magnet (A54E1) |
| 14 Aperture wheel spacer (H117) | 63 Bobbin (A55L1) |
| 15 Aperture wheel assembly (A52) | 64 Oval head rivet (H102) |
| 16 Light selector switch (S5) | 65 Breaker contact (P/O S2) |
| 17 Aperture wheel pivot (MP117) | 66 Insulator (E13) |
| 18 Front light baffle screw (H123) | 67 Adjustable contact spring (MP127) |
| 19 Front light baffle (MP156) | 68 Flat insulator (E11) |
| 20 Rear light baffle (MP153) | 69 Rivet (H101) |
| 21 Retaining ring (H118) | 70 Adjustable contact (P/O S2) |
| 22 Cocking arm (MP154) | 71 Adjustable contact screw (H103) |
| 23 Cocking arm spring (MP150) | 72 Flash contact-break (E10) (P/O S3) |
| 24 Cocking arm bushing (H121) | 73 Contact (E12) (P/O S4) |
| 25 Cocking arm pivot (MP119) | 74 Connector strip insulator (E9) |
| 26 Stop bracket cap | 75 Connector strip (MP125) (P/O S3 and S4) |
| 27 Rivet (H115) | 76 Oval head rivets (H100) |
| 28 Closing blade stop bracket assembly (A49) | 77 Capacitor contact light seal (MP126) |
| 29 Shock pad (H116) | 78 Capacitor outer-contact (E8) |
| 30 Stop block (MP142) | 79 Insulator |
| 31 Retaining pin (H94) | 80 Bumper eyelet (H93) |
| 32 Cocking slide (MP143) | 81 Bumper (H92) |
| 33 Over travel arm pivot (MP144) | 82 Rivets (H97) |
| 34 Over travel arm (MP146) | 83 Spring adjustment stop (MP122) |
| 35 Spacer (H117) | 84 Readout indicator slide pin (H104) |
| 36 Over travel arm spring (MP145) | 85 Readout indicator (MP128) |
| 37 Slide pin (MP147) | 86 Readout indicator spring (MP129) |
| 38 Roller bearing (MP149) | 87 Oval head rivet (H120) |
| 39 Roller (MP148) | 88 Blade spring retaining washer (H119) |
| 40 Oval head rivet (H120) | 89 Closing blade spring (MP151) |
| 41 Blade spring retaining washer (H119) | 90 Rivets (H96) |
| 42 Opening blade spring (MP152) | 91 Actuator detent spring (MP123) |
| 43 Opening blade (MP135) | 92 Actuator detent pin (H98) |
| 44 Closing blade | 93 Actuator detent roller (MP124) |
| 45 Retaining ring (H105) | 94 Oval head rivet (H99) |
| 46 Cocking slide latch spring (MP130) | 95 Capacitor inner-contact (E6) |
| 47 Cocking slide latch (MP131) | 96 Oval head rivet (H99) |
| 48 Cocking slide latch bushing (H106) | 97 Capacitor common-contact (E7) |
| 49 Cocking slide latch pivot (MP120) | 98 Base block (MP116) |

Figure 3-4. Baseblock disassembly.



- 1 Bellows assembly (A2)
- 2 Body assembly (A4)
- 3 Bellows light seal (MP2)
- 4 Shutter release bezel (MP17)
- 5 Shutter release bushing assembly (A6)
- 6 Outer frame top spacer (H8)
- 7 Shutter release tip (MP21)
- 8 Shutter release knob (MP18)
- 9 Return spring (MP20)
- 10 Outer frame bottom spacer (H8)
- 11 Spring washer (H10)
- 12 Link pivot (MP25)
- 13 Link pivot spacer (H23)
- 14 U-frame assembly (A9)
- 15 Inner frame bottom (MP15)
- 16 Rivet (H7)
- 17 Track guide (MP16)
- 18 Focus bar rivet (H14)
- 19 Right focus bar sleeve (MP25)
- 20 Right focus bar washer (H15)
- 21 Left focus bar sleeve (MP24)
- 22 Left focus bar bushing (H13)
- 23 Brake rivet (H11)
- 24 Brake washer (H12)
- 25 Brake sleeve (H22)
- 26 Brake spring (MP23)
- 27 Detent slide spring (MP33)
- 28 Detent slide rivet (H18)
- 29 Detent slide (MP32)
- 30 Inner frame top (MP31)
- 31 Zone focus plate (MP30)
- 32 Focus bar plate (MP29)
- 33 Focus button rivet (H17)
- 34 Focus button—right (MP28)
- 35 Focus button—left (MP27)
- 36 Focus bar bracket rivet (H16)
- 37 Focus bar bracket (MP26)
- 38 Focus bar
- 39 Flash wire tab assembly (A3)
- 40 Cable release wire tab (MP3)
- 41 Shutter mount spring rivet
- 42 Shutter mount bushing (MP34)
- 43 Slot cover (MP10)
- 44 D-ring (H4)
- 45 Neck strap assembly (A8)
- 46 Magnet pivot (MP6)
- 47 Pole piece (MP8)
- 48 Magnet (E1)
- 49 Magnet spring (MP11)
- 50 Battery (BT1)
- 51 Battery clip screw (H48)
- 52 Battery clip (H47)
- 53 Rear cover latch screw (H53)
- 54 Rear cover latch (MP81)
- 55 Center retainer (H52)
- 56 Guard fasteners (H51)
- 57 Left guard (MP82)
- 58 Spring contact rivet (H49)
- 59 Battery interlock assembly (A27)
- 60 Spring stop rivet (H56)
- 61 Left filler (H59)
- 62 Right filler (H60)
- 63 Spring stop (MP83)
- 64 Rivet (H56)
- 65 Light seal assembly (A31)
- 66 Rivet (H56)
- 67 Stationary hinge (H57)
- 68 Right guard
- 69 Screw (H2)
- 70 Release arm (not threaded) (MP9)
- 71 Release latch (not threaded) (MP4)
- 72 Release latch spring (MP13)
- 73 Latch pivot (MP5)
- 74 Tab strip bar screw (H6)
- 75 Tab strip bar (MP14)
- 76 Outer frame bottom pivot pin (MP19)
- 77 Strap lug (H5)
- 78 R. F.-V. F. pivot pad (MP7)
- 79 Rivet (H3)
- 80 Mounting plate spring (MP12)

Figure 3-6. Body/bellows disassembly.