TECHNICAL MANUAL

DS,GS,AND DEPOT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST SEARCHLIGHT SET INFRARED AN/VSS-3

(NSN 5855-00-058-1293)

This copy is a reprint which includes current pages from Changes 1 and 2. The title was changed by Change 1 as shown above.

CHANGE No. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC. 1 June 1983

Direct Support, General Support, and Depot Maintenance Manual Including Repair Parts and Special Tools Lists

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NG: None

USAR: None

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

WARNING

DEATH or SERIOUS INJURY may result from hazards in this equipment, unless the proper safety measures are observed. READ AND OBSERVE the warnings concerning the following hazards in this equipment:

- 40,000V—is present on xenon lamp electrodes and igniter unit terminals during lamp ignition.
- 3,000V— is present on booster-starter and igniter during lamp ignition.
- 120V dc—is present on booster-starter and capacitor bank during lamp ignition.
- +28V dc—is present in and around the searchlight case, control box, remote control box and power cable even after equipment shut down.

WARNING

Do not turn off the vehicle power source until the exhaust blower has stopped.

WARNING

Do not look directly into the searchlight when it is in operation. The high, intense visible or infrared light may cause blindness.

Do not operate the searchlight in the compact beam visible or infrared mode while personnel are within 200 meters of the beam path.

Personnel may suffer temporary flash blindness at ranges in excess of 200 meters when the searchlight is operated in either the compact beam or spread beam visible or infrared mode.

WARNING

Use extreme care in handling the high-pressure xenon lamp. Avoid touching the quartz envelope of the xenon lamp.

WARNING

Always disconnect the searchlight power cable before opening the searchlight case. When the main power cable is connected to the searchlight case, 28 volts dc is present between the cable and internal components of the searchlight. Any contact with the case and internal components can produce electrical shock and injury to personnel.

WARNING

The exhaust blower must always operate whenever the searchlight is in operation to protect the equipment from damage. Do not operate the searchlight if the exhaust blower does not operate.

WARNING

Handle the spare xenon lamp with care. This lamp is contained in a plastic holder which is necessary for installation and removal of the lamp. The container is not intended to serve as a safety container for the lamp. Avoid exposing the container with spare lamp to shock and rough treatment which can result in explosion and injury to personnel.

TECHNICAL MANUAL

No. 11-5855-217-35

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 27 July 1971

DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

SEARCHLIGHT SET, INFRARED AN/VSS-3 (NSN 5855-00-058-1293)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, NJ 07703.

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CHAPTER 1 INTRODUCTION

1-1. Scope

- a. This manual covers direct support, general support, and depot maintenance for Searchlight Set, Infrared AN/VSS-3. It includes instructions appropriate to direct support, general support, and depot maintenance for troubleshooting, testing, aligning, and repairing the equipment, replacing maintenance parts. It also lists tools, materials, and test equipment authorized for direct and general support and depot maintenance.
- *b.* Complete technical maintenance information for this equipment includes TM 11-5855-217-12, and TM 11-5855-217-12-2.

1–2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

1-3. Maintenance Forms, Records, and Reports

a. Reports of Maintenance and Unsatisfactory equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, the Army Maintenance Management System (TAMMS).

- b. Report of Packaging and Handling Deficiencies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73/AFR 400-54/MCO 4430.3E.
- c. Discrepancy in Shipment Report (DISREP) (SF 361. Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C/DLAR 4500.15.

1-4. General Information

- a. Components that have been assigned cumbersome nomenclature and are mentioned frequently in the manual are sometimes referred to by common names. The common names assigned to these components are listed in TM 11-5855-217-12.
- b. Reference designators, which are assigned to each part, indicate the type and location of the part. The reference designator indicates in which major component, assembly or subassembly a part is located. Reference designators assigned to sections of the searchlight set are listed in paragraph 7-4.
- *c.* Broken lines on illustrations represent mechanical connections. Solid lines indicate electrical connections.

CHAPTER 2 SEARCHLIGHT SET SYSTEM THEORY

Section I. PRELIMINARY BLOCK DIAGRAM DATA

2-1. Purpose of Block Diagram

The purpose of the searchlight set block diagram, figure 2-1, is to graphically illustrate functional interrelationships of the major components, assemblies, and parts of the searchlight set.

2-2. Grouping of Components and Assemblies

The searchlight set is divided into groups, according to function, for block diagram explanation. The function groups, important components with-

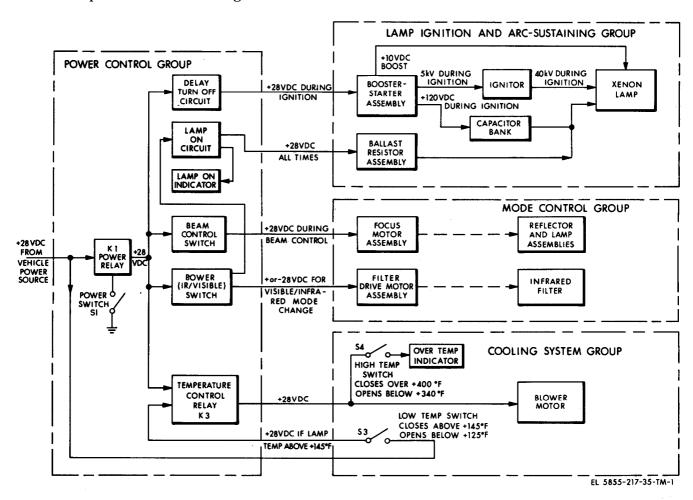


Figure 2-1. Searchlight set block diagram.

in each group, and a brief explanation of each group's purpose follows.

- a. Power Control Group. The power control group includes switches and indicators located on the front panel of the control box and remote control box, electronic timers located on the printed circuit board within the control box, and relays inside the control box. The power control group receives power from the vehicle power source, conditions the voltage, and supplies various voltage outputs to each of the other function groups.
- b. Lamp Ignition and Arc-Sustaining Group. The lamp ignition and arc-sustaining group includes the capacitor bank, booster-starter, igniter, ballast resistor, and xenon lamp. This group receives voltage from the power control group and supplies the high voltage and current necessary to ignite the xenon lamp. Upon lamp ignition, the group main-

- tains a nearly-constant dc voltage across the lamp to sustain the arc discharge of the xenon lamp. The lamp arc discharge is the source of the light for the searchlight set.
- c. Mode Control Group. This group includes the focus motor assembly, reflector and lamp assemblies, the filter drive motor assembly, and the infrared filter. Upon command from the power control group, through the power or beam switch, the group changes the searchlight's mode of operation.
- d. Cooling System Group. The cooling system group includes the blower assembly, the high and low temperature switches, and the OVER TEMP indicator. This group provides air-to-air cooling of the searchlight and warns the operator if the searchlight is dangerously overheated by lighting the OVER TEMP indicator.

Section II. BLOCK DIAGRAM DISCUSSION

2-3. Power Control Group

The power control group receives +22 to 28 volts dc from the vehicle power source through the power relay K1. Relay K1 is actuated by the power switch S-1. Relay K1 distributes power to the following:

- a. Delay Turn-Off Circuit. During lamp ignition, the delay turn-off circuit applies +28 volts dc to the booster-starter for approximately 7 seconds. If the xenon lamp does not ignite within this 7 seconds, the delay turn-off circuit removes power from the booster-starter. This prevents continuous operation of the ignition circuits in the event that the xenon lamp is inoperative. If the lamp ignites, the delay turn-off circuit continues to apply +28 volts dc for an additional 4 seconds to assure complete lamp ignition. At the end of 4 seconds, the delay turn-off circuit removes power from the booster-starter.
- b. Lamp-On Circuit. After lamp ignition, the lamp-on circuit supplies +28 volts dc to the LAMP ON indicator.
- c. Beam Switch. The beam switch applies +28 volts dc to the focus motor to cause the beamwidth mode change.

- d. Power Switch. The power switch applies power to the lamp, and a positive or negative 28 volts dc to the filter drive motor assembly during mode change. For visible light modes of operation, the power switch supplies a positive 28 volts dc to the motor. For infrared light modes, the power switch supplies a negative 28 volts dc to the motor. Reversing the voltage polarity reverses the filter drive motor direction of travel.
- e. Temperature Control Relay. The temperature control relay (K3) supplies +28 volts dc to the blower motor upon power turn-on, and applies power to the motor after turnoff if the temperature is above 145°F.
- f. Remote Control Box. The remote control box includes a power switch, beam switch, a LAMP-ON indicator, and an OVER TEMP indicator all of which are wired in parallel with the respective controls on the control box. Remote control is enabled by the REMOTE/LOCAL switch located on the front panel of the control box.

2-4. Lamp Ignition and Arc-Sustaining Group

The booster-starter receives +28 volts dc from the delay turn-off circuit upon power turn-on. The

booster-starter charges the capacitor bank to + 120 volts dc. When the capacitor bank reaches + 120 volts dc, the booster-starter switches the + 120 volts dc charging current off the transfers 3,000 volts to the igniter. The igniter steps up the voltage to 40,000 volts and applies it to the xenon lamp. When the lamp gas ionizes, the capacitor bank discharges through the xenon lamp. As the capacitor bank discharges, the booster-starter supplies a boost voltage of + 10 volts dc which is added to the +28 volts dc and applied across the lamp until the lamp stabilizes. After lamp ignition, the delay turn-off circuit removes +28 volts dc from the booster-starter and a nearly constant dc voltage is maintained across the xenon lamp through the ballast resistor and lamp-on circuit. The capacitor bank remains connected across the lamp to aid in filtering out battery voltage fluctuations.

2-5. Mode Control Group

- a. During beamwidth mode changes, the focus motor assembly receives +28 volts dc from the beam switch. In the compact beam mode, the focus motor assembly locates the xenon lamp at the focal point of the reflector. During spread beam mode operation, the focus motor assembly moves the xenon lamp a short distance away from the focal point to defocus the beam. The focus motor assembly also flexes the lower edge of the reflector to achieve a "rising sun" pattern in the beam.
- **b.** During infrared/visible mode changes, the filter drive motor assembly receives a positive or negative 28 volts dc from the power switch. The filter drive motor assembly controls the position of the infrared filter. In infrared light operation, the filter drive motor assembly receives a negative 28 volts dc from the power switch. The filter drive motor then positions the infrared filter completely around the xenon lamp thereby blocking transmission of visible light and allowing infrared light

to pass. In visible light operation, the filter drive motor receives a positive 28 volts dc from the power switch reversing the motor's direction of travel. The filter drive motor assembly then retracts the infrared filter from around the xenon lamp removing the obstruction to the transmission of visible light.

2-6. Cooling System Group

- **a.** When the searchlight set is turned on, the main power relay (Kl) energizes and supplies power to the blower motor through the temperature control relay (K3). After the ambient temperature of the searchlight reaches + 145°F (63 °C), the thermal switch (S3) closes, bypassing relay K1 and powering the blower motor through relay K3.
- **b.** When the searchlight set is turned off, the blower motor continues to operate through K3 until ambient temperature drops to + 125°F (52° C). At this temperature, thermal switch S3 opens deenergizing K3 which then switches the blower motor back to K1. Since K1 is deenergized, the blower motor shuts off until the searchlight set is turned on again.
- c. The thermal switch (S4) controls the lighting of the OVER TEMP indicator. If the ambient temperature exceeds + 400°F (193°C), S4 closes, turning on the OVER TEMP indicator. After the OVER TEMP indicator lights, it is the responsibility of the operator to turn off the equipment until the blower motor can cool the components. Switch S4 will not open until the ambient temperature drops below + 340°F (160°C). When S4 opens, the OVER TEMP indicator is extinguished indicating to the operator that the equipment is cool enough to operate without damage.

NOTE

The OVER TEMP indicator is also extinguished by turning off the searchlight set power.

CHAPTER 3

POWER CONTROL GROUP

Section I. INTRODUCTION

3-1. General

a. The power control group receives power from the external power source, conditions the voltage, and supplies various outputs to the temperature control group, lamp ignition group, lamp arc-sustaining group, and the searchlight function group. The power control group switches power from the lamp ignition group, after lamp ignition, to the lamp arc-sustaining group. Included in the power control group is a circuit test section to facilitate troubleshooting, switches to control searchlight operation, and indicators to monitor searchlight operations.

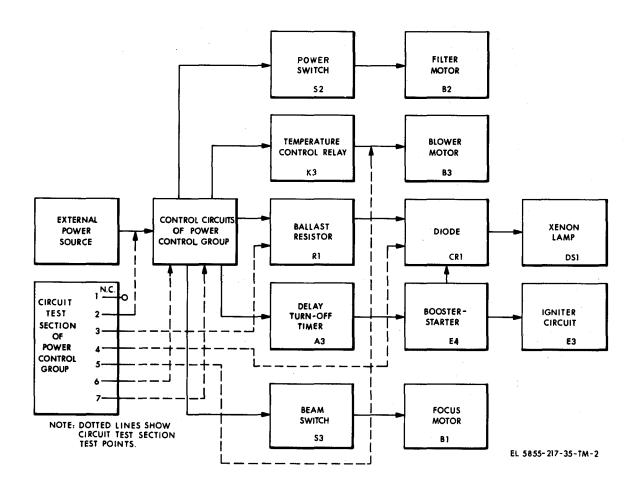


Figure 3-1. Power control group block diagram.

b. The relationship between the power control group with respect to other functional groups of the searchlight set is shown in figure 3-1 and described in paragraph 3-2.

3-2. Block Diagram Discussion

(fig. 3-1.)

The power control group performs seven basic functions within the searchlight set. The functions are as follows:

- (1) Distributes power to the various circuits in the searchlight set.
- (2) Controls and monitors searchlight set operation.
 - (3) Times the application of the ignition volt-

age across the xenon lamp and turns off the ignition circuits if the lamp fails to ignite.

- (4) Times the application of boosted battery voltage across the xenon lamp after ignition and turns off the booster-starter 4 seconds after lamp ignition.
- (5) Switches power to the xenon lamp from the lamp ignition group to the arc-sustaining group after lamp ignition.
- (6) Provides for remote searchlight set operation by the remote control box.
- (7) Provides a circuit test section to facilitate troubleshooting of the searchlight set.

Section II. CIRCUIT FUNCTIONS

3-3. Power Distribution

Voltage of +22 to 28 volts dc power is supplied to the searchlight set from an external power source, usually a vehicle power supply. Power is distributed by the power control group to the following units:

- (1) To the main power relay (K1). Relay K1 is actuated by the VISIBLE/INFRA RED/OFF switch (2A1S2). The main power relay starts the elapsed time meter (M1), turns on the blower motor (B3) through the temperature control relay (K3), and supplies voltage to the booster-starter (1A2E4) unit through the delay turn-off circuit (2A1A3).
- (2) To the xenon lamp (1A2DS1) through the ballast resistor (1A3R1) and diode (1A2CR1) after xenon lamp ignition.
- (3) To the focus motor (B1) through the beam switch (2 A1S3).
- (4) To the infrared filter motor (B2) through the VISIBLE/INFRA RED/OFF switch (2A1S2).
- (5) To the blower motor (B3) through the temperature control relay (K3).

3-4. Delay Turn-Off Circuit

The delay turn-off circuit consists of two timers. One, the delay turn-off timer, and two, the booster-starter timer.

- a. The delay turn-off timer includes transistors and associated circuit elements including resistors and capacitors which set the time constant of the timer at approximately 7 seconds. When the searchlight set is-turned on, power is applied to R16 and C2 in the timer circuit and to the booster-starter through the contacts of the booster power relay (K2). If the xenon lamp does not ignite within 7 seconds after turn-on, Q3 fires and in turn fires Q5. When Q5 fires, relay K2 energizes and removes power from the booster-starter. This prevents continuous operation of the booster-starter and igniter circuit in the event the xenon lamp is inoperative.
- b. If the lamp does ignite within 7 seconds after power turn-on, the delay turn-off timer is reset through S4 through resistor R17 and diode CR9.
- c. The booster-starter timer consists of transistors Q1, Q4, and associated circuit elements ineluding resistor R2 and capacitor C1 which sets the time constant of Q1 'to approximately 4 seconds. After the xenon lamp is ignited, the booster-starter starts timing to keep the booster-starter on for 4

seconds. At the end of 4 seconds, Q1 fires which fires Q4 and energizes K2 thereby removing input power from the booster-starter unit.

NOTE

Either the delay turn-off timer or the booster-starter timer will energize K2 to shut off the booster-starter.

d. Zener diode CR7 and resistor R12 form an 18 volts dc voltage regulator so that the time constant of the timers will not change as the input voltage fluctuates between +22 and 28 volts dc.

3-5. Lamp-On Circuit

A signal from the lamp-on circuit signifies when the xenon lamp has ignited. When current increases through the lamp, a set of contacts closes to light the LAMP ON indicator (DS1) and start the timer in the delay turn-off circuit.

3-6. Beam Control Switch

The beam control switch (2A1S3) supplies positive (+) input power to the focus motor through the focus motor contol switch (S5). The beam control switch supplies positive (+) input power in either the COMPACT or SPREAD BEAM position.

3-7. Power Switch

The power switch (2A1S2) actuates the main power relay (K1) in either the INFRA RED or the VISIBLE position. One side of the coil of relay K1 is permanently connected to the positive (+) power input. The other side of the coil connects to switch 2A1S2. When 2A1S2 is in the INFRA RED or the VISIBLE position, the ground side of the relay K1 coil is connected to the circuit ground which completes the path through the relay coil and energizes relay K1. Switch 2A1S2 also selects the mode of operation by controlling the infrared falter motor. In the INFRA RED position, circuit ground is connected to the positive (+) side of the filter motor through 2A1S2, 2A1S1, and the normally closed (NC) contacts of the limit switch (1A2S1). In the VISIBLE position, positive (+) input power is connected to the + side of the filter motor through 2A1S2, 2A1S1, and the NC contacts of 1A2S1.

3-8. Temperature Control Circuit

The temperature control circuit monitors the ambient temperature of the xenon lamp. If the ambient temperature is below 140° F, power for the blower motor is taken through the power relay (K1) in the power distribution circuit. The blower motor operates to provide cooling as soon as power is applied to the system. When the temperature exceeds 140°F, temperature control relay (K3) is energized and the control circuit bypasses the power relay and takes its power directly from the vehicle source. When the system is turned off, the blower motor continues to operate until the temperature reaches 125° F. At this temperature, the control circuit reverts to the power relay (K1). Since the power relay is deenergized, the blower motor shuts down until the searchlight is turned on again.

3-9. Lamp Ignition and Arc-Sustaining Group Switching Circuit

At power turn-on, the capacitor bank (C1 through C6) is charged to 120 volts by the booster-starter unit. The diode (CR 1) provides isolation between the capacitor bank and the input voltage. A boost voltage from the booster-starter unit is added to the input voltage and is applied across the diode during the lamp ignition period. When the lamp ignites, the capacitor bank discharges through the arc and starts the 4-second timer. After 4 seconds, the booster-starter is turned off. Power is then supplied to the lamp through the ballast resistor (1A3R1) to sustain the lamp arc.

3-10. Remote Controls and Indicators

The remote controls and indicators, located in the remote control box, duplicate the corresponding controls in the control box. They are an OVER TEMP and a LAMP ON indicator, a beam switch, and a power switch. Operation of these controls and indicators are identical to the respective controls and indicators mounted in the control box. Operation of the remote controls and indicators is enabled whenever the REMOTE/LOCAL switch in the control box is in the REMOTE position.

3-11. Circuit Test Section

The circuit test section consists of CIRCUIT TEST switch 2A1S4, indicator lamp DS3, and test circuit formed by zener diode CR5, resistors R5, R6, and

R7, and transistor Q2. The sharp regulation of CR5 (zener action) lights DS3 if voltage in the circuit selected through S5 is more positive than +22 volts dc. Switch S5 is a 7- position switch. Position one is not used for the circuit test section and is labeled OPERATING POSITION. The circuits checked by the individual positions of the CIRCUIT TEST switch' are listed in table I and are shown in the simplified schematic diagram, figures 3-2 through 3-7. An indicator lamplights if the voltage level in the circuit under testis at a satisfactory level.

CIRCUIT TEST	Positions for Circuit Checks Circuit checked
switch position	operating position
2	Ballast resistor continuity
4	Diode CR1, output voltage
5	Control box-searchlight connec-
7	. Input voltage and power relay

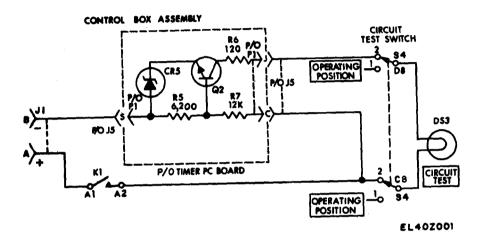


Figure 3-2. Simplified schematic diagram of CIRCUIT TEST switch, position 2.

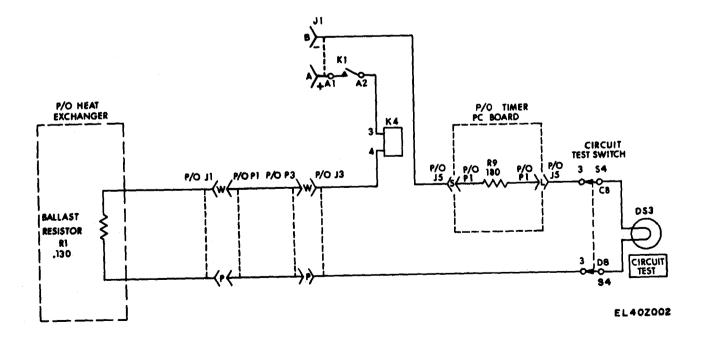


Figure 3-3. Simplified schematic diagram of CIRCUIT TEST switch, position 3.

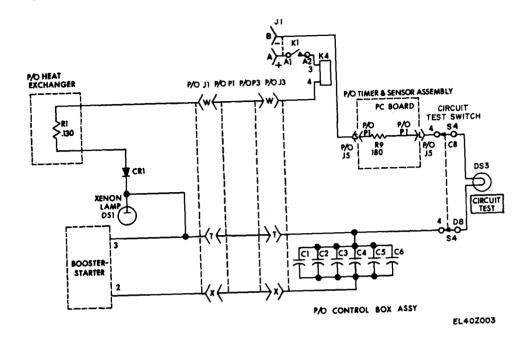


Figure 3-4. Simplified schematic diagram of CIRCUIT TEST switch, position 4.

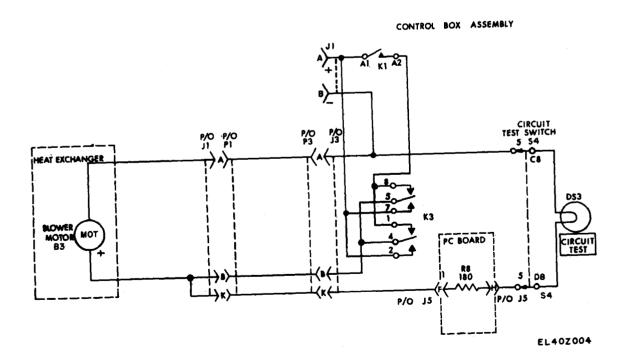


Figure 3-5. Simplified schematic diagram of CIRCUIT TEST switch, position 5.

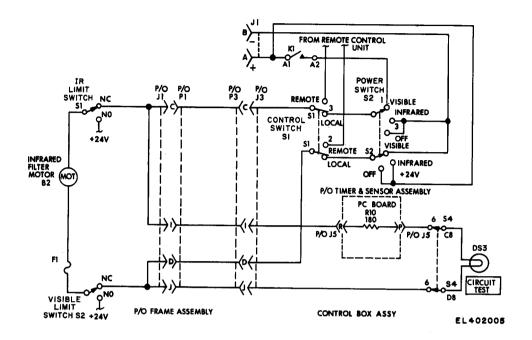


Figure 3-6. Simplified schematic diagram of CIRCUIT TEST switch, position 6.

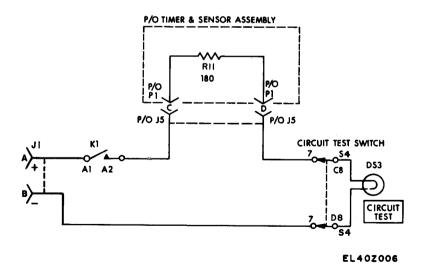


Figure 3-7. Simplified schematic diagram of CIRCUIT TEST switch, position 7.

CHAPTER 4

LAMP IGNITION AND ARC-SUSTAINING GROUP

Section I. INTRODUCTION

NOTE

Replace XENON lamp at the end of 300 hours operation.

4-1. General

The lamp ignition and arc-sustaining group is used to supply the high voltage and current necessary to ignite the xenon lamp. Also, the group maintains a nearly-constant voltage, after lamp ignition, across the xenon lamp to sustain the arc. For lamp ignition, the group consists of a booster-starter, igniter, the capacitor bank (C1 through C6), and the booster-starter turn-off relay (K2). For lamp arc-sustaining, the group consists of the ballast resistor (R1) and the capacitor bank (C1 through C6).

4-2. Block Diagram Discussion

(figure 4-1 and 4-2)

The booster-starter receives +28V dc from the delay turn-off circuit upon power turn on. The booster-starter charges the capacitor bank to +120V dc. When the capacitor bank reaches +120V dc, the booster-starter switches the +120V de charging current off and transfers 3,000 volts to the igniter. The igniter steps up the voltage to 40,000 volts and applies it to the xenon lamp. When the lamp gas ionizes, the capacitor bank discharges through the xenon lamp. As the capacitor bank discharges, the booster-starter supplies a boost voltage of +10 volts dc which is added to the +28V dc and applied across the lamp until the lamp stabilizes. After ignition, the delay turn-off circuit removes +28V dc from the booster-starter and a nearly-constant de voltage is maintained across the xenon lamp through the ballast resistor and lamp on circuit. The capacitor bank is connected across the lamp to aid in filtering out battery voltage fluctuations.

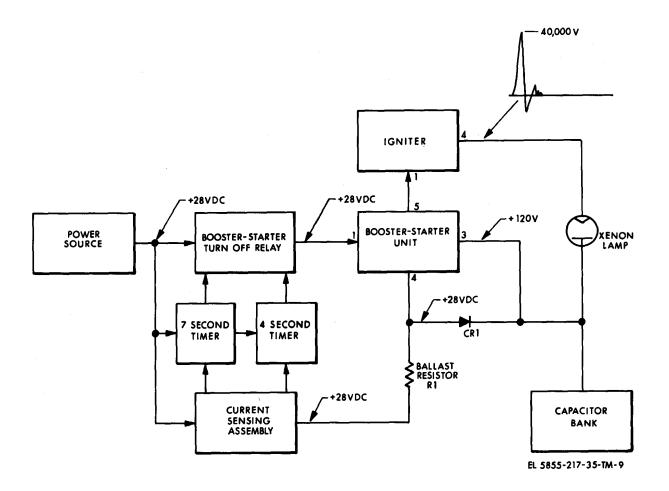


Figure 4-1. Lamp ignition group block diagram.

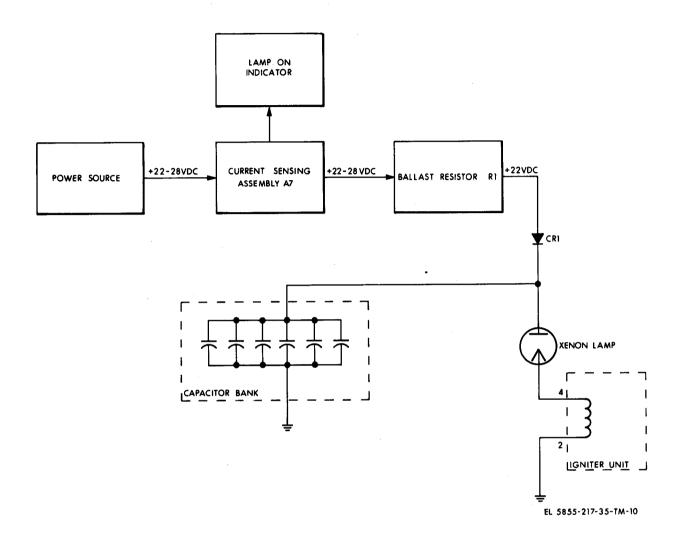


Figure 4-2. Lamp arc-sustaining group block diagram.

Section II. CIRCUIT FUNCTIONING OF XENON LAMP AND ASSOCIATED COMPONENTS

4-3. Arc Lamp Theory

(figure 4-3)

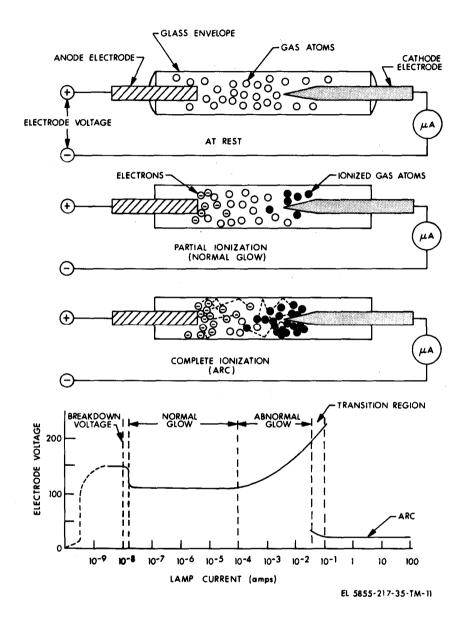


Figure 4-3. Lamp ionization diagram.

a. In general, arc lamps may be described as glass or quartz tubes, filled with gas under pressure, with an electrode sealed into each end of the tube. The electrodes are not touching but are mounted in the arc lamp chamber with a fixed distance between them. At rest, the gas atoms are randomly distributed throughout the arc chamber. If a voltage is

applied across the electrodes, the electrons will be attracted to the positive electrode and the gas ions will be attracted to the negative electrode.

b. As the electrode voltage is raised, the current through the lamp increases rapidly because the electrons being attracted towards the positive electrode have gained enough energy to ionize a large number of gas atoms and subsequently create more current carriers. At some value of electrode voltage, the current through the lamp increases rapidly and the voltage drop across the lamp decreases. The value of electrode voltage at which this occurs is the breakdown voltage of the gas, and the gas has broken into a self-maintaining discharge called a glow. (Figure 4-3.)

c. If the current is not limited through the lamp, it will continue to increase almost instantaneously, causing the lamp to produce an abnormal glow. The current and voltage will finally reach a transition region where the voltage will drop to a low value and the current will increase to some high value and the discharge becomes an arc. In essence, the arc is a discharge of electricity between the electrodes using the gas ions and electrons as a path.

4-4. Xenon Lamp

The searchlight set uses a 1 kW xenon lamp for its source of illumination. The lamp is filled with xenon gas under high pressure. The gas is pressurized to approximately 7 atmospheres at rest and increases to 27 atmospheres during operation. At sea level, one atmosphere is 14.7 lb/in.² at 15°C.

The xenon lamp produces light energy that closely approximates natural sunlight both in spectral distribution (color) and temperature.

4-5. Reflector

- a. The parabolic mirror reflector collects the light energy emitted by the xenon lamp, focuses the light, and reflects it in the form of a narrow beam.
- *b.* The lamp is mounted so that it may be moved axially by the focus motor to defocus the light beam in the spread beam mode of operation.
- c. The reflecting surface of the reflector is coated with rhodium, a material with very good reflective properties. Any dulling of this surface will reduce the amount of reflected light energy. Therefore, extreme care should be taken when cleaning and/or replacing the reflector. Also, any distortion of the reflector will defocus the light beam. In the spread beam mode of operation, the bottom edge of the reflector is purposely flexed to achieve a "rising sun" pattern in the beam.

4-6. Reflector Effect on Beam

(figure 4-4)

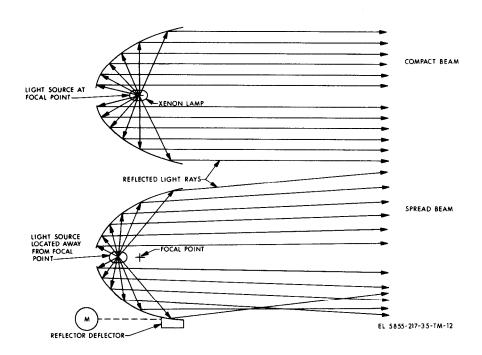


Figure 4-4. Reflector effect on beam.

The parabolic mirror reflector gathers light rays from the xenon lamp and focuses the rays into a beam. The most efficient location for the light source (xenon lamp) is the focal point of the reflector. When the light source is located at the focal point, the reflected light rays are nearly parallel. As the lamp is moved back from the focal point, the light rays are spread because of the change in the angle of incidence (angle at which a light ray from the lamp strikes the reflector). For any light ray, the angle of incidence and the angle

of reflection are always equal. Therefore, as the light source is moved back from the focal point, the angles become less resulting in a spread light beam. The light rays that strike the flexed lower portion of the parabolic mirror reflector are reflected in a manner that distorts the circular cone of light into a "rising sun" pattern.

4-7. Measurement of Beamwidth

(figure 4-5)

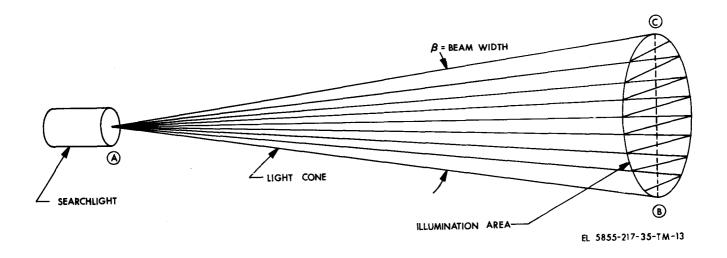


Figure 4-5. Measurement of beamwidth.

a. The light beam, produced by the searchlight, is approximately a circular cone. The inscribed angle of the cone is defined as beamwidth. Since beamwidth is an angle, the unit of measurement is degrees.

b. To estimate the diameter of the illuminated area, at a given distance away from the searchlight, the following formula is useful:

The tangent of beam angle (B) times the distance between the searchlight and object to be illuminated (AB) equals the diameter of the illuminated area (BC).

```
Or mathematically: (\tan \beta) (AB) ~ BC

Example: L\beta = 1^{\circ} AB = 100 meters (\tan \sim (AB) \sim BC (0.01746) (100m) = 1.746 meters or roughly 2 meters.
```

The above formula only yields an approximation of illumination area diameter since there is light diffusion and beam distortion due to a variety of causes. Among them, the "rising sun" pattern during the spread beam operation.

4-8. Infrared Filter

(figure 4-6)

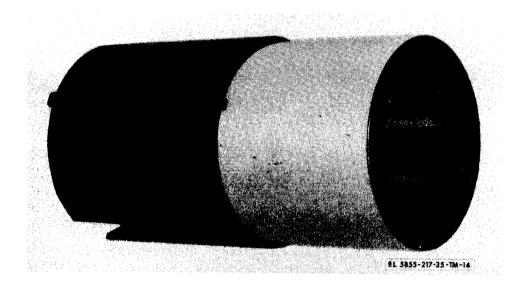


Figure 4-6. Infrared filter.

a. The infrared filter used in the searchlight set is a hollow cylinder which fits over the xenon lamp and blocks the transmission of light energy with wave lengths in the visible light spectrum. The visible light spectrum, those light waves which may be detected by the unaided human eye, includes light waves between 380 and 740 nanometers (10-9 meters) in length.

b. The infrared filter motor (B2), in the mode control group, drives the infrared filter completely over the xenon lamp during infrared modes of operation. In visible modes of operation, the infrared filter motor retracts the filter thereby removing the obstruction to visible light being emanated by the xenon lamp.

Section III. CIRCUIT FUNCTIONING OF LAMP IGNITION CIRCUITS

4-9. Booster-Starter

The booster-starter circuit receives input power from the delay turn-off circuit and produces three outputs.

- (1) A 120V open-circuit voltage
- (2) A 10V booster voltage
- (3) A 3500 volt signal to the igniter circuit

The 120 volts charges a capacitor bank. Once the capacitor bank is charged, the booster-starter circuit adds 10 volts to the input voltage and provides 3500 volts to power the igniter circuit. The booster voltage is applied during the ignition period to insure that the lamp ignites at low voltage inputs. After a 4-second

delay, this 10-volt boost voltage is removed from the circuit.

4-10. Igniter

The igniter circuit receives a 3500-volt input from the boster-starter circuit. This voltage is stepped up to approximately 40,000 volts which is applied to the xenon lamp. The high voltage ionizes the gases within the lamp to provide a low resistance path between the anode and the cathode. The low resistance path discharges the capacitor bank to assist in providing ignition of the xenon lamp. After capacitor discharge, the line and boost voltage sustain ignition.

4-11. Capacitor Bank

The capacitor bank is charged to 120 volts by the booster-starter circuit. This charging occurs during the first 1.5 seconds after power turn-on. When the xenon lamp gases are ionized by the igniter, the lamp discharges the capacitor bank. During continuous operation, the capacitor bank remains connected across the lamp to aid in filtering voltage variations.

4-12. Sequence of Operation During Lamp Ignition

Sequence of operation	Circuit operation
1	on.
2 Pov	ver to relay K2, but K2 does not energize.
	er to pin 1 of booster-starter.
4 Pow	ver to 7-second timer; timer starts.
5 Ca	pacitor bank starts charging to +120V suppli-
by pir	a 3 of the booster-starter.
6 Capa	acitor bank reaches 120V.

Sequence of operation	Circuit operation
8	Reed switch in the booster-starter transfers 3500V to pin 1 of the igniter A capacitor in the igniter charges to 3500V Capacitor in the igniter discharges across the spark gap through transformer creating 40,000 volts
10	across the lamp electrodes.
11	. Xenon gas ionizes Capacitor bank discharges through the lamp If the lamp ignites, the 7-second timer is reset If the lamp does not ignite 7 seconds after power turn-on, relay K2 is energized by the timer removing power from the booster-starter if the lamp is defective Aa the capacitor bank discharges through the lamp, the booster-starter supplies boost voltage of + 10V which is added to the battery voltage and applies across the lamp until the lamp stabilizes.
	Current flows through the coil of the current sensing switch K4, resetting the 7-second timer and starting the 4-second timer After 4 seconds, relay K2 is energized by the 4-second timer removing power to the booster-starter
	and the igniter.

Section IV. CIRCUIT FUNCTIONING OF LAMP ARC-SUSTAINING CIRCUITS

4-13. Ballast Resistor

The ballast resistor (Rl) is a length of metal strip made of a special alloy formulated to offer nearly-constant linear electrical resistance (ohms per unit length). The ballast resistor is located in the heat exchanger case assembly and is mounted in the air duct so that air currents will carry away the heat radiated by the ballast resistor. The electrical resistance of the ballast resistor is 0.130 ohm. After ignition, the ballast resistor maintains a nearly-con-

stant +22 volts dc across the xenon lamp.

4-14. Capacitor Bank

The capacitor bank consists of six 360 microfarad capacitors (C1 through C6) that are connected in parallel to give a total capacitance of 2160 microfarads. These capacitors are connected across the xenon lamp to filter out battery voltage variations. The capacitor bank is also used to supply a high-surge current to the xenon lamp during lamp ignition.

CHAPTER 5

MODE CONTROL GROUP

Section I. INTRODUCTION

5-1. General

The searchlight function group changes the searchlight beam output from infrared to visible light and varies the beamwidth between the limits of 1° to 7°. Primarily, the searchlight has four operating modes: infrared compact beam, visible compact beam, infrared spread beam, and visible spread beam. However, the beam switch on the control box is spring-loaded and can be adjusted to produce a light beam in between the compact and spread beam modes of operation.

5-2. Modes of Operation

The searchlight set modes of operation are as follows:

- a. The searchlight produces a compact beam which originates at the xenon lamp and is projected into a focused beam by the parabolic mirror reflector. The center of the light source (xenon lamp) is located approximately at the center of the parabolic mirror reflector assembly focal point.
- b. Spread beam search operation is obtained by relocating the position of the xenon lamp with the

focus drive motor (B1). This causes the center of the light source to be a short distance (approximately 0.2 inch) away from the focal point of the parabolic mirror reflection. The focus drive motor also flexes the bottom edge of the reflector to achieve a rising sun pattern in spread beam operation.

- c. For infrared operation, the infrared filter is positioned completely around the xenon lamp and blocks the transmission of visible light. The filter motor (B2) controls the position of the infrared filter.
- *d.* For visible light operation, B2 retracts the infrared filter thereby removing the obstruction to visible light.
- e. Compact and spread beam modes of operation are the same for visible and infrared light transmission. The reflected light rays are produced at the deflection points which are a function of the distance between the light source and the reflector focal point.
- f. The beam switch, located on the front panel of the control box, is spring-loaded and can be adjusted to achieve a variable beam in between the compact and spread beamwidths.

Section II. CIRCUIT FUNCTIONING OF MODE CONTROL CIRCUITS

5-3. Infrared Filter Assembly

a. The infrared filter motor (B2) controls the position of the infrared filter. In the visible mode of operation, the motor retracts the filter to allow

the passage of visible light. In the infrared mode of operation, the motor reverses direction and drives the filter completely over the xenon lamp. When the equipment is turned off, the filter motor places the infrared filter around the lamp to act as a

shield in case the lamp explodes and to prevent accidental visual light emission when the search-light is turned on again.

b. Switch S1 and S2 are limit switches actuated by mechanical stops mounted on the infrared filter drive gear. In the INFRA RED position, S1 is actuated, connecting contact C (common) to the NO (normally open) contact. In the VISIBLE position, S2 is actuated, connecting contact C to the NO contact. During mode change, both switches are in the C to NC position. (Figures 5-2 through 5-6.)

5-4. Focus Motor Assembly

a. The focus motor assembly controls the search-light beamwidth in either the infrared or visible mode. In the compact beam mode of operation, the xenon lamp is located at the focal point of the parabolic mirror reflector. In the spread beam mode of operation, the focus motor moves the xenon lamp a short distance away from the reflector focal point and flexes the bottom of the reflector.

b. The focus motor assembly consists of focus motor B1, fuse F2, limit switch A1S5, reflector-deflector subassembly, and mechanical linkage for xenon lamp positioning.

c. Focus motor B1 is controlled by switch A2S3 in the control and test group. Two eccentrics, one on either end of the motor shaft, translate the rotary motion of B1 to back and forth motion to move the lamp and reflector-deflector axially. Wafer switch S5 is also mounted on the motor shaft. Focus motor (B1) only turns in one direction

5-5. Mode Switching Table

The mode switching table (table II) explains the method of mode switching used in the searchlight set. The action column in the table lists the action, by the operator, on the control switches. The result column lists the automatic switching that takes place, during mode change, as a result of the listed action. The reference figure column references figures that illustrate the corresponding action and result.

Table II. Mode Switching

Action Result Reference figure

None

Searchlight set is off. Infrared 5-1 filter covers xenon lamp, Power switch S2, Control switch S1, Infrared limit switch S1 and Visible limit switch S2 is in normal off position. K1 relay is also deenergized.

Power switch S2, switching to IN-F R A R E D (from OFF) Searchlight set is on. Infrared filter covers lamp. Infrared limit switch S 1 to pin NO. K1 energized Positive power through the power switch S2-pin 9 to S2-pin 8, Control switch S1-pin 3 to pin 1D, Visible limit switch S-2, pin NC to pin C, (F1) and one side of filter motor. Since other side of B2 is also connected to positive power through IR limit switch S1 pin NO to CR3. Voltage across motor B2 is zero and motor does not turn.

Power switch S2 to VISIBLE

At start: Filter covers lamp, In- 5-3 frared limit switch S1 is actuated by mechanical stop. Positive power is supplied to B2 through K1-A1, K1-A2, power switch S2-pin 1 to S2-pin 2, Control switch S1-pin 3 to S1-pin 1C and IR limit switch S1-pin NC.

Negative power supplied to B2 through Visible limit switch S2-pin C, to S1-pin NC, Control switch S1-pin 1D to pin 3, Power switch S2-pin 8 to S2-pin 7. Voltage across motor: Motor starts to turn.

During filter retraction, B2 turns, mechanical stop releases IR limit switch S1 and switches positive power to motor through IR limit switch S1-pin C to S1-pin NC, Control switch S1-pin 1C to S1-pin 3, and Power switch S2-pin 2 to S2-pin 1, K1-A2 and K1-A1.

Filter completely retracted; mechanical stop actuates visible limit switch S2. Negative power is removed from motor (-); motor (-) is connected to positive power through Visible limit switch S2-pin NC. Since both sides of B2 are connected to positive, voltage across B2 is zero and motor stops. Searchlight is in the visible mode.

- 4

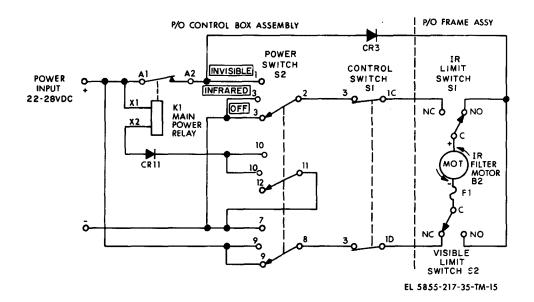


Figure 5-1. Limit switch diagram, in off mode.

Table II. Mode Switching - continued		Action	Result	Reference	
Action		eference figure		limit switch S2 actuate	figure
Power switch S2 to INFRARED (from VISI-BLE) Power switch S2 to OFF (from	At start: filter retracted, visible limit switch S2 actuated by mechanical stop. Positive power supplied to B2 (-) through F1, visible limit switch S2-pin C to S2-pin NO, CR3, K1A2 and K1Al. Negative power supplied through IR limit switch S1-pin C and pin NC, control switch S1-pin 1C, and S1-pin 3, and power switch S2-pin 2, and S2-pin 3. Voltage across motor; motor starts to turn. Filter starts to cover lamp. B2 turns: mechanical stop releases visible limit switch S2; visible limit switch S2 switches positive power to B2 through visible limit switch S2-pin C and S2-pin NC, control switch S1-pin ID and S1-pin 3, power switch S2-pin 8 and S2-pin 9. Filter completed covers lamp. Mechanical stop actuates Is limit switch S1 removing negative power stopping motor Searchlight is in infrared mode.	5-5		limit switch S2 actuate mechanical stop. Negapower supplied to B through IR limit switch S C, to S1-pin NC, Con Switch S1-pin 1C to S1-pand power switch S2-pin S2-pin 3. Since it is necess to pass through the INI RED position, positive p is momentarily supplied to through FI, visible switch S2-pin C to S2-pin CR3, and K1A2, visible switch S2-pin C to S2-pin CR3, and K1A2, visible switch S2 is released by chanical stop; power switch is now in OFF position. FK1 deenergizes Filter Stacover lamp. Positive power supplied to B2(-) through ble limit switch S2-pin S2-pin NC, Control sw S1-pin 1D to S1-pin 3. P switch S2-pin 8 to S2-pin B2 turns. Iter completely covers Mechanical stop actuate limit switch S1 removing it tive power from B2 (+) stops. Searchlight is now to supplied to supplied to S2-pin S3-pin S4-pin S4	ative (2(+) 1-pin (1-pin (1-pin) (1-pi
VISIBLE)	At start: filter retracted visible	5-6	(ed off and filter covers la	amp.

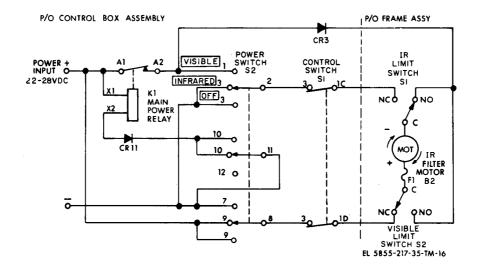


Figure 5-2. Limit switch diagram in infrared mode.

Table II. Mode Switching-continued

	-	Action	
Action	Result Reference figure		
SPREAD BEAM/ C O M P A C T BEAM switch in COMPACT BEAM position SPREAD BEAM/	Xenon lamp located at approxi- 5-7A mately the focal point of reflector. Reflector-deflector not engaging reflector. S5 has broken positive power connection. Positive power supplied to B1 5-7B	COMPACT BEAM switch in SPREAD BEAM position	(+) through S5-1, S5-2, S3-1, S3-2, S1-3, S1-1G, K1-A2, K1-A1. B1 rotates; top eccentric moves xenon lamp away from focal point. Bottom eccentric pushes reflector-deflector against reflector.

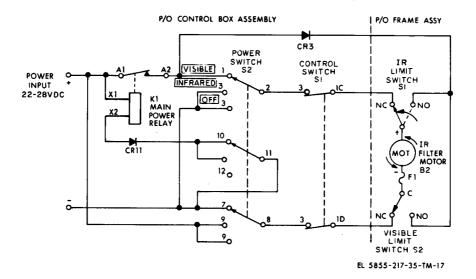


Figure 5-3. Limit switch diagram, to visible from infrared mode.

Table II. Mode Switching-continued			Action	Result I	Reference
Action S5 breaks between contact 2 and 1		erence gure 5-7C	COMPACT BEAM switch to COMPACT BEAM (from SPREAD BEAM)	through S5-1, S5-3, S3-3, S3-2, S1-3, S1-1G, K1-A2, K1-A1. B1 repositions the xenon lamp at focal point and retracts reflector-deflector from the reflector allowing reflector to return to original shape (a parabola).	figure
SPREAD BEAM/	flector-deflector flexes bottom of reflector. Beam will stay spread until S3 is moved to COMPACT position. Positive power supplied to B1	5-7B	S5 breaks between contacts 1 and 3	contact is broken between S5-1 and S5-3. B1 stops. Searchlight has returned to compact beam configuration.	5-7A

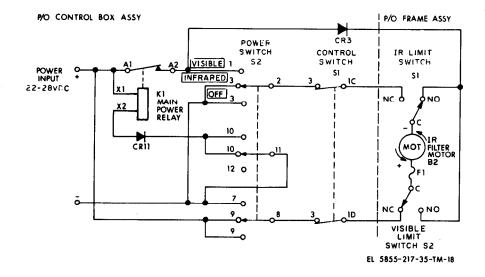


Figure 5-4. Limit switch diagram, visible mode.

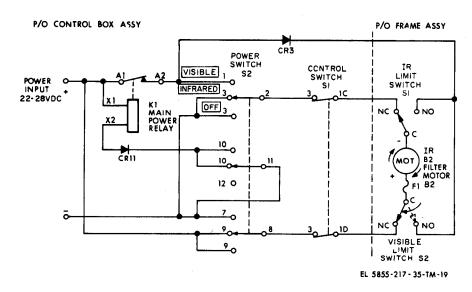


Figure 5-5. Limit switch diagram, to infrared from visible mode.

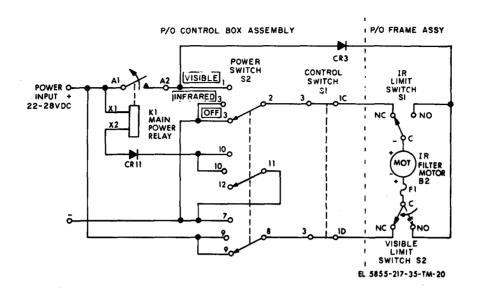


Figure 5-6. Limit switch diagram, to off from visible mode.

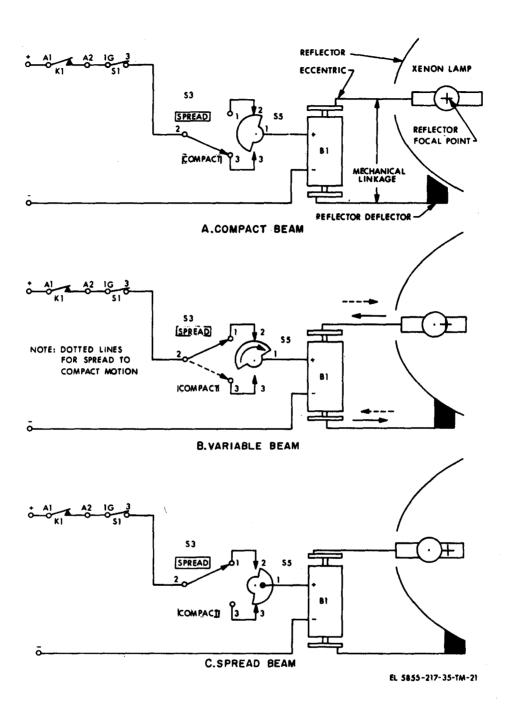


Figure 5-7. Searchlight beam control diagram.

CHAPTER 6 COOLING SYSTEM GROUP

Section I. INTRODUCTION

6-1. General

The cooling system group provides air-to-air cooling of the searchlight and monitors the ambient temperature of the xenon lamp. If the temperature of the lamp is too high, the cooling system group warns the operator of the oven-temperature condition by lighting the OVER TEMP indicator lo-

cated on the front panel of either the control box or the remote control box whichever is in use. The temperature control group includes the heat exchanger assembly, blower motor assembly, thermostatic switches, and the OVER TEMP indicator.

6-2. Block Diagram Discussion (figure 6-1)

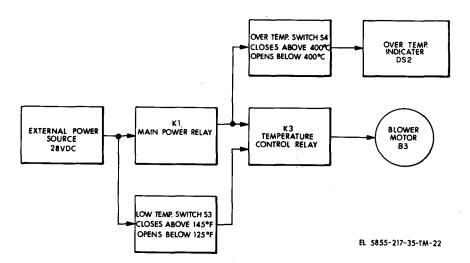


Figure 6-1. Temperature control group block diagram.

a. When the searchlight set is turned on, the main power relay (2A1K1) energizes and supplies power to the blower motor (1A3B3) through the temperature control relay (2A1K3). After the ambient temperature of the searchlight reaches +145°F, the thermal switch (1A2S3) closes, bypassing relay 2A1K1 and powering the blower motor through relay 2A1K3 directly from the external power source.

b. When the searchlight set is turned off, the blower motor continues to operate until ambient temperature drops to + 125° F. At this temperature, thermal switch 1A2S3 opens, deenergizing 2A1K3 which switches the blower motor back to 2A1K1. Since 2A1K1 is deenergized, the blower motor shuts off until the searchlight set is turned on again.

c. The thermal switch (1A2S4) controls the lighting of the OVER TEMP indicator. If the ambient temperature exceeds +400° F, switch S4 closes turning on the OVER TEMP indicator. After the OVER TEMP indicator lights, it is the operator's responsibility to turn off the equipment until the blower motor can cool the components. Switch 1A2S4 will not open until the ambient temperature drops below +340°F. When switch 1A2S4

opens, the OVER TEMP indicator is extinguished indicating to the operator that the equipment is cool enough to operate without damage.

NOTE

The OVER TEMP indicator is also extinguished by turning off the searchlight set power.

Section II. COMPONENT FUNCTIONING OF COOLING SYSTEM COMPONENTS

6-3. Heat Exchanger Assembly

a. The heat exchanger assembly is located in the rear cover assembly, figure 6-2. The heat exchanger assembly provides air-to-air cooling of the

searchlight interior through finned heat sink tubes located in the rear cover assembly. The assembly consists of two blower wheels driven by the blower motor (1A3B3); eight hollow finned heat sink tubes, a plenum chamber, and air ducts to direct the air flow.

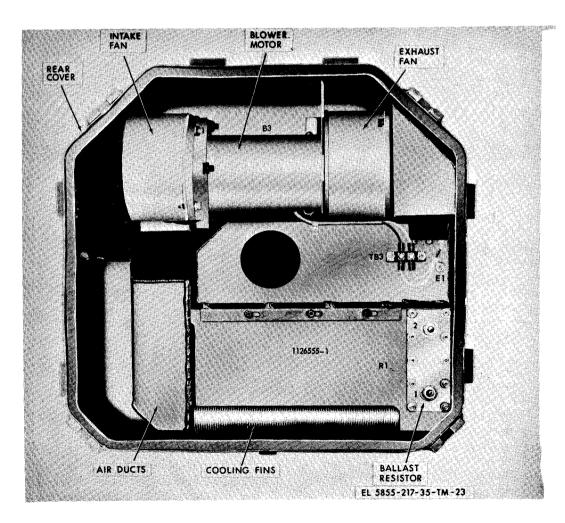


Figure 6-2. Rear cover assembly.

b. Outside cool air is drawn into the searchlight through the intake duct by a blower wheel. The outside air is then forced through the heat sink tubes and out the exhaust duct by the blower wheel thus carrying away heat radiated into the air flow by the inside wall of the heat sink tubes (figure 6-3).

c. Inside air is drawn into the plenum chamber by the other blower wheel. From the plenum chamber, the air is directed around the xenon lamp and heat sink tubes. Heat from the interior air is absorbed by the heat sink tubes and radiated out the inner wall of the tubes as shown in figure 6—4.

6-4. Blower Motor Assembly

a. The blower motor (B3) is a dc motor which turns at 7500 revolutions per minute (rPm) plus or minus 1000 rpm. A 5 amp steady-state. current is required for operation. Power for the blower motor is supplied through the temperature control relay (K3) from the main power relay (K1). After the ambient lamp temperature has reached

+145°F, the low temperature thermostat (S3) closes, bypassing K1 and powering the blower motor directly from the vehicle power supply through K3.

b. Two blower wheels, one mounted on each end of the motor shaft, circulate air through the cooling system as shown in figure 6-4 and described-in paragraphs 6-3a, b, c.

6-5. Thermostatic Switches

The high and low temperature switches (S3 and S4) (thermostats) are mounted inside the biped support next to the xenon lamp. Each thermostat contains a set of switch contacts actuated by temperature. Switch S3 closes on temperature rise at $145^{\circ}F \pm 5^{\circ}$ and opens on temperature fall at $125^{\circ}F \pm 8^{\circ}$. Switch S4 closes on temperature fall at $340^{\circ}F \pm 18^{\circ}F$. Switch S3 bypasses the main power relay and, when the searchlight set is turned off, continues to supply power to the blower motor until the blower motor can cool the searchlight. Whenever the equipment overheats, switch S4 turns on the OVER TEMP indicator which is located on the front panel of the control box.

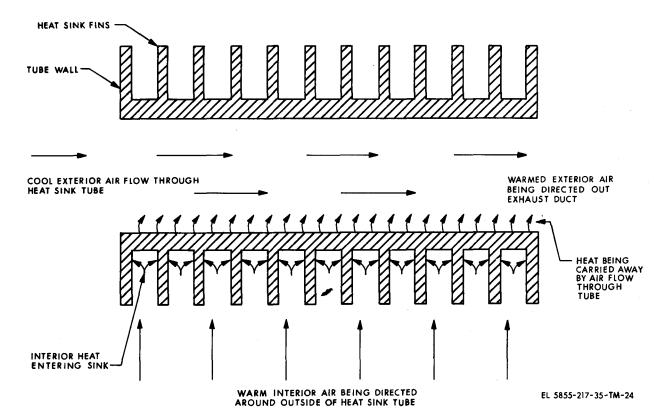


Figure 6-3. Heat sink tube cross section.

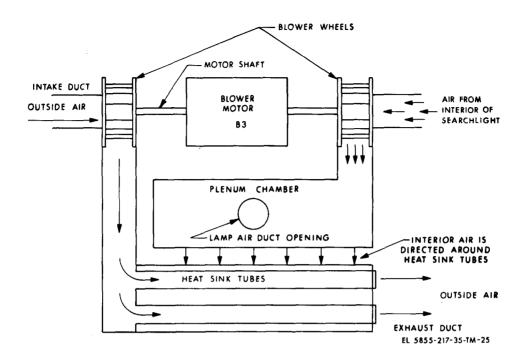


Figure 6-4. Heat exchanger airflow.

CHAPTER 7

GENERAL MAINTENANCE INFORMATION

NOTE

This chapter contains information pertinent to field and depot maintenance. The amount of repair that can be performed by units having field and depot maintenance responsibility is limited by the tools, test equipment, replacement parts that are available, and the skill of the individual repairman.

Section I. INTRODUCTION

7-1. Scope

- a. The information contained in this chapter is presented to aid the repairman in detecting abnormal operation, locating and correcting the cause of the abnormal operation, and checking the serviceability of repaired equipment in the minimum amount of time. Instructions for performing preventive maintenance of the searchlight set are contained in the organizational maintenance manual, TM 11-5855-217-12. This information is to be used to keep the searchlight in suitable working order so that breakdowns and needless interruptions in operation will be minimized.
- b. Troubleshooting charts contained in this part of the manual indicate normal and abnormal operation and reference paragraphs that contain further troubleshooting and repair procedures to be followed in the event of abnormal operation. When required, preliminary control settings or equipment preparation for troubleshooting procedures are listed immediately before the troubleshooting chart to which they apply.
- c. The troubleshooting charts contained in this chapter, along with the location (by paragraph number) of the charts, are listed below:

Chart

Chart location

Troubleshooting chart based paragraph 8-6 on starting procedure Control box symptom paragraph 8-12 troubleshooting chart Searchlight symptom troubleshooting chart Heat exchanger symptom troubleshooting chart

paragraph 8-20

paragraph 8-24

Each troubleshooting chart, with the exception of the troubleshooting chart based on starting procedure, covers a major component of the searchlight set.

- *d.* The following information is included to aid in correcting equipment trouble causing faulty operation.
- (1) Corrective measures are given in each troubleshooting chart.
- (2) Instructions for the removal and replacement of parts are given in Chapter 9.
- (3) Instructions for performing adjustment procedures after removal and replacement of parts in the searchlight will be found in paragraphs 8-28 through 8-30.
- e. To check the serviceability of repaired items of equipment, perform the operating checks sequence of the weekly preventive maintenance checks and services chart located in the operator and organizational maintenance manual, TM 11-5855-217-12.

7-2. Troubleshooting Techniques

- a. Introduction. To locate and repair a trouble quickly and with a minimum of labor, it is necessary to use a systematic technique. It is seldom possible to observe an abnormal condition and immediately diagnose the cause. Generally, it is necessary to follow a detailed sequence of checks, observations, and measurements to properly isolate and correct the cause of malfunctions. The technique to be used in troubleshooting the searchlight set is commonly referred to as sectionalization, localization, and isolation. The resistor-capacitor color code chart (fig. 10-5) aids in identifying color coded resistors and capacitors.
- b. Sectionalization. The first step in the logical search for trouble causing parts is to sectionalize the trouble to a particular major component of the searchlight set. Sectionalization can be accomplished through visual and operational checks and measurements contained in the troubleshooting chart based on starting procedure. (Refer to paragraph 8–6.)
- c. Localization. After sectionalization, the troubleshooting chart based on starting procedure will refer to a major component troubleshooting chart or section. The referenced troubleshooting chart or section will localize the trouble to a portion of the major component.
- d. Isolation. After trouble has been localized to a portion of the major component, use visual inspection, voltage and resistance measurements, and parts substitution to isolate the defective part.

7-3. Troubleshooting Data

- a. General. In addition to the troubleshooting charts, other troubleshooting data are supplied to help the repairman rapidly locate trouble. The following types of troubleshooting data are supplied and should be consulted when necessary.
 - b. Searchlight Set Block Diagram. Chapter 2 contains a block diagram and a discussion of the functions of the groups illustrated on the block diagram. By observing the symptoms of trouble and reasoning possible causes, it is often possible to trace the cause of faulty operation to a particular block. Each block functionally represents certain circuits and their interrelationships.
 - c. Cabling Diagram. A diagram of the power cable shows the wiring between connection pins. This diagram is useful in checking cable continuity.

- d. Complete Wiring and Schematic Diagrams. Complete wiring and schematic diagrams are provided for the searchlight set. These diagrams show all electrical interconnections between the major components and identify the various terminal connections. The diagrams are useful when trouble-shooting and isolating circuit problems.
- e. Reference Designation Location Chart. To aid in parts location, a block of reference designation numbers and letters has been assigned to each section of the searchlight set. This reference designator location chart may be found in paragraph 7–4.

7-4. Reference Designation Data

To aid in parts location, a block of reference designators has been assigned to major components, assemblies and subassemblies of the searchlight set. For example, cable connector J1 on the support assembly, is designated as 1A2J1. The following chart lists the block of reference designators assigned to major components, assemblies, and subassemblies.

Reference designator	Equipment description
1	Searchlight. Infrared, MX-8272/VSS-3
lA1	Housing, Searchlight Subassembly
	Support Assembly, Searchlight
2	Control. Searchlight Set C-7905/VSS-3 (con-
•	trol box)
2A1	. Control Subassembly
	Circuit Card Assembly, Timer-CB
3	Control. Searchlight Set C-7906/VSS-3 (re-
1	mote control box)
4W	Cable Assembly, Power, Electric,
	CX-11893/VSS-3

7-5. Voltage and Resistance Measurements

a. Voltage and resistance measurements are an aid in determining circuit conditions and in evaluating clues during the course of troubleshooting.

NOTE

The voltage measurements are approximate values that may be used in determining normal circuit operation. Resistance measurements should be made with 100,000 ohms per volt meter. The primary function of a resistance check is to determine that there is electrical continuity between the component circuits.

b. Observe the following Precautions before making resistance checks:

- (1) Turn off input power.
- (2) Discharge high-voltage capacitors inside control box by placing 1,000-ohm resistor across pins B and T of connector J3 at the control box front panel.
- (3) After completing resistance checks, make sure all electrical cabling has been properly connected before turning on power.
- c. Disconnect the power cable that connects the control box to the searchlight before checking resistances and voltages in side the control box or the remote control box.

7-6. Cable Check and Repair

- a. Continuity. When measuring for continuity, the ohmmeter leads sometimes are not long enough to be connected to the cable end. The following procedure is given as a convenient method for determining the condition of a cable.
- (1) Place a resistor of known value (50,000 ohms or more) from one end of the cable to ground.
- (2) Connect ohmmeter leads between the cable and ground at other end of cable.
- (3) If meter indicates approximately 50,000 ohms, the cable has continuity.
- (4) If meter indicates infinite resistance, the cable is open.
- (5) If meter indicates zero resistance, the cable is shorted to ground.
- (6) If meter indicates much less than 50,000 ohms, but not necessarily zero, the cable has dc leakage path to ground.

NOTE

Measure the resistance of each cable wire that is connected to the cable harness connector.

b. Repair. The power cable cannot be repaired; it must be replaced. Clean connector pins with alcohol and a stiff bristle brush.

7-7. Parts Substitution

- a. Do not substitute parts indiscriminately. Substitute only when all of the following conditions are satisfied:
- (1) The trouble has been isolated to a specific subassembly or part.
 - (2) All voltage readings are normal.
 - (3) All resistance readings are normal.
- b. When all other possibilities of trouble are ruled out, substitute a known good part for the one which is suspected of being defective.

7-8. Intermittent Troubles

- a. If the operation of a part is intermittently faulty, the trouble may be difficult to locate when the part is functioning normally. Such trouble can often be found by lightly tapping the suspect part, or parts, with a nonmetallic pencil or insulated rod and, at the same time, observing the resistance or voltage measurement, that is suspected of being incorrect.
- b. Intermittent operation can be caused by loose connections, broken wires, or parts with internal defects. Sometimes intermittent troubles can be located by observing erratic behavior of one of the controls.

Section II. TOOLS AND TEST EQUIPMENT REQUIRED FOR FIELD AND DEPOT MAINTENANCE OF SEARCHLIGHT SET, INFRARED AN/VSS-3

7-9. Tools and Materials Required

The following tools and materials are not supplied with the searchlight set, but are required for field and general maintenance of the searchlight set.

Quantity	Tool/Material
1	Dental mirror
1	Long-nose pliers
1	Blade-type screwdriver
1	Phillips-type screwdriver
	Box of optical tissue

1	Electric drill
1	Soldering iron, 20-watt max
	Solder roll (SN 60/40)
1	Wrench. adjustable to 3/8-in.
1	Socket wrench set
1	Pair of white gloves
1	Drill bit, 1/16-in., +0.003, -0.000
1	

A/R Denatured alcohol or aceto

7-10. Test Equipment Required

The following test equipment is required for troubleshooting the searchlight set when using the troubleshooting chart based on the starting procedure.

Test equipment	Common name	Technical manual/FSN	
Multimeter AN/USM-223	Multimeter	6625-999-7465	
Power Supply PP-1656/G	Power supply	6130-985-8130	
Stopwatch	Stopwatch	6645-719-8760	
Tool Kit TK-100/G	Tool kit	5180-605-0079	
Leather Blacksmith Apron	Leather apron	8415-234-9254	
Faceshield	Faceshield	4240-965-1 269	
Asbestos Gloves	Asbestos gloves	8415-564-5191	

Section III. SPECIAL CLEANING PROCEDURES

7-11. Scope

a. This section contains the information necessary to perform effective cleaning procedures on the searchlight set. To ensure best performance, cleaning procedures should be performed under the best attainable conditions of cleanliness. Even though special cleaning procedures do not require the use of cleanroom facilities, they should be performed in a clean environment.

NOTE

All parts are to be cleaned after disassembly so that they may be inspected for serviceability prior to reassembly.

b. Paragraph 7-12 covers materials required for cleaning; paragraph 7-13 covers cleaning of exterior surfaces; paragraph 7-14 covers cleaning of the interior; paragraph 7-15 covers cleaning of electrical connections; paragraph 7-16 covers cleaning of interconnecting cables; and paragraph 7-17 covers cleaning of optical surfaces.

7-12. Materials Required

The following materials are required to perform the special cleaning procedures found in this section:

- a. Soft, clean cloth
- b. Soft-bristled brush
- c. Lens-tissue (FSN7920 965–1709)
- d. Soap water (USP)
- e. Nonabrasive detergent solution
- f. Distilled water
- g. Toluene (ASTM 842), or equivalent
- h. Acetone (chemically pure), hexane, isopropyl alcohol, or equivalent approved solvents
 - i. Low-pressure air hose
- j. Low-pressure water hose

7-13. Cleaning Exterior Surfaces

a. General

CAUTION

Avoid cleaning exterior surface with a powerful stream of water such as that from a high-pressure hose even though the heat exchanger case assembly is considered to be weatherproofed when attached to the searchlight.

- (1) Wash the exterior with a low-pressure hose or by using buckets of fresh water.
- (2) If dirt is difficult to remove, use a damp cloth or sponge and mild soap. Then, flush with fresh water and wipe surface completely dry.
- (3) When the exterior surface contains only dust or loose dirt, wipe the surface with a clean soft cloth.
- (4) Remove grease, fungus, and ground-in dirt from the surface by using a cloth dampened (not wet) with diluted isoproply alcohol. Then, flush exterior surface with fresh water and wipe dry.
- b. Cleaning Metal Surfaces. Painted metal surfaces may be cleaned with toluene (ASTM 842) or equivalent. Unpainted metal surfaces may be cleaned with acetone (chemically pure), hexane, isopropyl alcohol, or equivalent approved solvents. Proceed as follows:

CAUTION

Solvents shall be used in a well ventilated room. Care shall be taken to avoid solvent contact with personnel.

(1) Saturate a soft, clean cloth with appropriate solvent and wipe surfaces to be cleaned making certain that surface is-thoroughly wetted.

CAUTION

Do not dip cloth into solvent supply. Use clean cloths as necessary.

(2) Wipe solvent-wetted surfaces dry using a soft, clean, dry cloth.

CAUTION

Surfaces must be wiped dry. Solvent must not be allowed to evaporate from surfaces.

7-14. Cleaning Interior Surfaces

Clean interior surfaces with a soft-bristled brush or dry, clean cloth. Remove any foreign material (dirt, grease, metal particles. Take care not to damage any internal components.

CAUTION

Do not use water or ethyl alcohol on the interior of control box, remote control box or searchlight frame. Do not clean indicator light lens with" ethyl alcohol. Never submerge in water or solvent.

7-15. Cleaning Electrical Connections WARNING

To be usable for cleaning, the compressed air source must limit the nozzle pressure to no more than 29 pounds per square inch gauge (PSIG). Goggles must be worn at all times while cleaning with compressed air.

Remove loose dust, lint, and other foreign material from the electrical assemblies such as terminal boards, etc., using low-pressure compressed air.

NOTE

If compressed air is not available, a softbristled brush may be used to carefully remove loose foreign matter.

Remove corrosion from soldered connections and electrical contacts using ethyl alcohol (USP) and a small bristle brush. Blow loosened corrosion materials away with low-pressure compressed air.

7-16. Cleaning interconnecting Cables

Using a soft wet cloth, wipe rubber cable body free of mositure and dirt.

Clean adapter and connector pins with ethyl alcohol and stiff brush.

Wipe adapter body and face with clean soft cloth and ethyl alcohol. Dip female connector into clean water to remove deeply imbedded dirt.

7-17. Clening Optical Surfaces

To clean the searchlight lens, infrared filter, and mirror, proceed as follows:

CAUTION

Wiping or bruching must be performed carefully in order to avoid scratching or otherwise darnaging surfaces.

a. Form a pad of lens tissue (FSN7920 %5-1709) saturated with soap water (USP) and wipe the surface with gradual even strokes.

CAUTION

Swab or tissue should not be dipped into water supply, and should be discarded when soiled.

- **b.** Foreign material that is not removed by soap and water may be removed with a nonabrasive detergent solution.
- c. Remove loose lint or dust from surfaces with low-pressure compressed air or soft lens brush.

CHAPTER 8

TROUBLESHOOTING AND REPAIR OF THE SEARCHLIGHT SET

Section I. TROUBLESHOOTING BASED ON STARTING PROCEDURE

8-1. General

The troubleshooting chart based on starting procedure (paragraph 8-6) will aid in detecting abnormal operation of the searchlight set and in locating faulty parts that cause abnormal operation.

- *a.* Follow the step-by-step starting procedure while carefully observing the normal indications listed for each step.
- b. If the normal indications are not obtained, observe the abnormal indications and check the abnormal indications column for the particular abnormal indication obtained.

 Reference

Paragraph 8-3
Paragraph 8-7 to 8-12
Paragraph 8-13 to 8-16
Paragraph 8-17 to 8-20
Paragraph 8-21 to 8-24
Paragraph 8-25 to 8-27
Paragraph 9-2 to 9-3
Paragraph 9-4
Paragraph 9-5 to 9-6
Paragraph 9-7 to 9-8
Paragraph 9-9

8-3. Fuses

The following chart lists the fuses used in the power distribution system of the searchlight set. The chart indicates the rating, use, indication of blown fuse, and location of fuses within the searchlight set.

- c. Perform the checks or refer to the component symptom troubleshooting charts listed in the *corrective measures* column for the particular abnormal indication obtained.
- *d.* Replace faulty parts before continuing with subsequent procedures in the troubleshooting chart .

8-2. Reference Data

The following data is supplied as an aid to the repairman during troubleshooting.

Data

Fuses
Control box troubleshooting and repair
Remote control box troubleshooting and repair
Searchlight troubleshooting and repair
Heat exchanger troubleshooting and repair
Power cable troubleshooting and repair
Replacement procedures for control box components
Printed circuit board test
Replacement procedures for remote control box components
Replacement procedures for searchlight components
Replacement procedures for heat exchanger components

CAUTION

Always replace a blown fuse with one with the same rating. If a replacement fuse blows, do not install another fuse until the trouble has been remedied.

Fuse	Rating		Blown fuse	Location
	Volts	Amp	indication	Docation
F1	250	1 amp slow blow	Searchlight will not switch modes from infrared to VISU- AL	Inside rear of searchlight assembly (heat exchanger assembly must be unlatched for access to fuses, para 9-8)
F2	250	1 amp slow blow	Mode change motor will not operate	Inside rear of searchlight assembly (unlatch heat exchanger assembly, paragraph 9-8)

8-4. Preliminary Checks and Adjustments

- a. Additional damage will be caused if power is applied to equipment in which a complete or partial short circuit exists. When any of the following conditions apply, check for short circuits before applying power to the equipment.
 - (1) A replaced fuse that has blown.
- (2) Smoke observed coming from a component.
 - (3) Overheated parts observed or smelled.
- (4) A defective component being serviced apart from other components of the searchlight and the nature of the trouble is not known.
- (5) Abnormal symptoms, reported from operational tests which indicate partial or complete short circuits.
 - b. Before using the troubleshooting chart based

on starting procedure (paragraph 8—6), check with the operator for indications of the location of trouble. Check the electrical cabling of the set for tight connections and undamaged cables and receptacles. Refer to TM 11-5855-217-12 for preliminary equipment operating instructions.

8-5. Preliminary Control Settings

Before performing the troubleshooting procedure given in the troubleshooting chart based on starting procedure, place the searchlight set controls, located on the control box, to the positions indicated by the following table:

Switch or control.	Preliminary position
VISIBLE/INFRARED/OFF switch, S2	OFF (down)
CIRCUIT TEST switch, S5	OPERATING POSITION (position 1)
LOCAL/REMOTE control switch, S1	LÖCAL
COMPACT/SPREAD beam switch, S3	COMPACT

8-6. Troubleshooting Chart Based on Starting Procedure

Step	Procedure	Normal indications	Abnormal indications	Corrective Measures
1	Set power switch to IN-FRARED position. (Refer to TM 11-5855-217-12 for location of controls and indicators.)	Blower motor operates; Xenon lamp ignites; LAMP ON indicator lights.	Xenon lamp remains off	 a. Set CIRCUIT TEST switch to position 7 (input power test). If CIRCUIT TEST indicator does not light, check the following: (1) Vehicle power on. (2) Input power cable properly connected. (3) Disconnect input power cable and measure vehicle power between pin A and B on cable. (4) Relay K1 in control box fails to actuate; refer to control box relay actuation check (paragraph 8-11). b .If CIRCUIT TEST indicator lights, check the following: (1) Power cable continuity
			_	(paragraph 8–26).
			Xenon lamp remains off	Set CIRCUIT TEST switch to position 2 (input voltage level). If CIRCUIT TEST indicator does not light, check following:
			Blower motor operates	(1) Vehicle power source greater than +22V dc. If vehicle power source is greater than 22V dc, circuit test section is

Step	Procedure	Normal indications	Abnormal indications	Corrective Measures
				defective. Refer to paragraph 8–7 through 8–12. Note. If CIRCUIT TEST indicator lights, perform next troubleshooting step to isolate the trouble.
			Xenon lamp lights; LAMP ON indicator does not light.	 a. Replace indicator lamp in LAMP ON housing located on front panel. b. If LAMP ON indicator still does not light, refer to control box symptom troubleshooting chart (paragraph 8–12).
2	Set CIRCUIT TEST switch to position No. 2 (input power)	CIRCUIT TEST in cater lights	di- CIRCUIT TEST indi- cater does not light	(paragraph 6-12). If xenon lamp ignites, circuit test section is defective. Replace CIR-CUIT TEST indicator bulb. If xenon lamp does not ignite, use circuit test section to isolate trouble by performing step 3.
3	Set CIRCUIT TEST switch to position 3 (ballast resister)	CIRCUIT TEST in cator lights	ndi- CIRCUIT TEST indi- cater does not light.	Shut off searchlight set by setting power switch to OFF position. Disconnect the power cable at the searchlight. Measure resistance of ballast resistor with multimeter between P and W of 1A2J1. Resistance should be approximately 0.130 Ω). If resistance is correct, check the power cable continuity. (Refer to paragraph 8–26.) Check control box wiring. (Refer to paragraph 8–7 through 8–12.) If resistance is incorrect, remove heat exchanger (paragraph 9–8). Remove one lead on ballast resistor mounting board and measure resistance is still incorrect, change ballast resistor. If resistance is approximately 0.130 Ω , perform continuity checks on connecting wires back to P and W of 1A2J1 until trouble is found. Refer to schematic diagram.
4	Set CIRCUIT TEST switch to position 4 (switching diode)	CIRCUIT TEST in cater lighta	ndi- CIRCUIT TEST indi- cater does not light	 a. Shut off searchlight set. b. Disconnect power cable at searchlight. c. With multimeter, measure resistance between P and T of 1A2J1. Resistance should be 50Ω ±5Ω and 500 KΩ minimum. Reverse leads and measure again to obtain both values. If resistance reading is incorrect, remove searchlight support from searchlight housing. (Refer to paragraph 9-8.) Remove screw mounted terminal on diode CR1. Check resistance of diode directly across CR1. Replace CR1 if incorrect. If resistance is correct, perform continuity

Step	Procedure	Normal indications	Abnormal indications	Corrective Measures
				measurements on connecting wires back to P and T of 1A2J1 until trouble is found.
5	Set CIRCUIT TEST switch to position 5 (blower motor voltage)	CIRCUIT TEST indicater lights	CIRCUIT TEST indicater does not light	If blower is operating, CIRCUIT TEST section is defective. Replace CIRCUIT TEST indicator bulb. If still defective, refer to paragraph 8-10. If blower is not operating perform the following sequence: (1) Shut off searchlight set. (2) Remove heat exchanger. (Refer to paragraph 9-8.) (3) Disconnect blower motor leads TB3 1 and 2. (4) Using clip leads connected to vehicle power source, apply power directly to blower motor input leads, TB3 1 and 2. Blower motor should operate. If blower motor does not run, replace blower motor as a unit. If blower motor runs, perform cont i nu i t y checks on connecting wires until trouble is found. (Refer to schematic diagram of searchlight set.)
6	Set CIRCUIT TEST switch to position 6 (searchlight to control box connec- tor check)	CIRCUIT TEST indicater lights	CIRCUIT TEST indicater does not light	Perform continuity check on power cable and connectors (paragraph 8-26).
7	Set CIRCUIT TEST switch to position 7 (input power)	CIRCUIT TEST indicater lights	CIRCUIT TEST indicater does not light	If xenon lamp is on, CIRCUIT TEST section is defective. Replace CIRCUIT TEST indicator bulb. If still defective, check CIRCUIT TEST continuity (paragraph 8-10). If xenon lamp remains off, check the following: (1) Vehicle power ON. (2) Input power cable properly connected. (3) Disconnect input power cable and measure vehicle power between A and B on the cable. (4) Relay K1 in control box actuates. (Refer to paragraph 8-11.)
8	Set power switch to VISI-BLE position	Searchlight output changes from infrared to visilble light	Searchlight output remains infrared light	Measure voltage at control box J4-C to A. Should be +20 volts dc minimum. a. If voltage is correct, turn searchlight set off by placing power switch of OFF position. Perform the following procedure: (1) Disconnect the power cable. (2) Short circuit J1-X to J1-T at searchlight case momentarily to discharge capacitor. (3) Measure resistance between JID and JIC at searchlight.

Step	Procedure	Norm al indications	Abnormal indications	Corrective Measures
9	Set beam switch to SPREAD BEAM posi- tion	Searchlight beam widens to a spread	Searchlight beam does not spread	Resistance should be 20Ω ±5Ω. (4 If resistance indicates open, replace fuse F1 (paragraph 8-3). (5 If resistance is correct, refer to paragraph 8-11 to 8-20 for further troubleshooting information. b. If voltage is incorrect (less than +20 volts dc) 2A1A3CR3 diode on printed circuit board in control box is defective. Replace diode or replace printed circuit board. Measure voltage at J4 on control box F to A, should be 22 to 28 volts dc. a. If voltage is correct, perform the following procedure: (1) Shut off searchlightset. (2) Disconnect the power cable. (3) Measure resistance at 1A2J1 from E to F and from E to G. If both measurements indicate an open, replace fuse F2. Refer to paragraph 8-3 for fuse replacement. (4 Refer to paragraph 8-17 to 8-20 for further trouble-shooting information.
10	Set beam switch to COM-PACT BEAM	Searchlight beam narrows to a compact beam	Searchlight beam does not return to a com- pact beam	b. If voltage is incorrect, trouble probably is in control box. Refer to paragraph 8-7 to 8-12 for further troubleshooting information. Measure voltage at J4 on control box G to A; should be 22 to 28 volts dc. a. If voltage is correct, perform the following procedure: (1) Shut off searchlight set. (2) Disconnect the power cable. (3) Measure resistance at 1A2J1 from E to F and from E to G. If both measurements indicate open, replace fuse F2 (paragraph 8-3). (4) Refer to paragraph 8-17 to 8-21 for further troubleshooting information. b. If voltage is incorrect, trouble probably is in control box. Refer to paragraph 8-7 to 8-12 for further troubleshooting information.

Step	Procedure	Normal indications	Abnormal indications	Corrective Measures
11	Set power switch to IN-FRARED position	Searchlight output returns to infrared output	Searchlight output mains visible	re- Measure voltage at J4 on control box A to D. should be +20 volts dc minimum. If voltage is correct, trouble is in searchlight support assembly. Refer to paragraph 8-18 to 8-21 for further troubleshooting information. If voltage is incorrect, trouble is in control box. Refer to paragraph 8-7 to 8-12 for further troubleshooting information.
12	Set REMOTE/LOCAL switch to REMOTE position. Repeat steps 8, 9, 10, and 11 with REMOTE LOCAL switch in REMOTE position	Same as steps 8, 9, 10 and 11	Same as steps 8, 9, and 11	10 If searchlight does not work normally in REMOTE operation but does work normally in LOCAL operation, trouble may be localized to the following: (1) REMOTE/LOCAL switch in control box. Refer to paragraph 8-10 for switch continuity check. (2) Interconnecting wiring between remote control box and control box. (3) Remote control box. Refer to paragraph 8-13 to 8-16.

Section II. CONTROL BOX TROUBLESHOOTING AND REPAIR

8-7. General

The control box of the searchlight set contains all of the controls and indicators in the searchlight set except for the duplicate controls and indicators located in the remote control box. The capacitor bank, control relays, CIRCUIT TEST section, delay turn-off circuit, elapsed time meter, and lampon circuit are also located in the control box. Instructions for troubleshooting these circuits or components and isolating trouble to a particular component may be found in the control box symptom troubleshooting chart. The troubleshooting chart lists symptoms of trouble, possible cause of trouble, procedures to follow to isolate trouble to a particular cause, and corrective action to be taken to isolate trouble.

8-8. Reference Data

The following data is supplied as an aid to the repairman during troubleshooting of the control box.

Reference Data

Chapter 2	Searchlight set block diagram
Paragraph 8–12	procedure Control box relay actuation test Control box symptom trouble- shooting chart
Paragraph 9–2 and 9–3F	control box components

8-9. Voltage and Resistance Measurements

- a. Voltage and resistance measurements are an aid in determining tine circuit conditions and in evaluating clues in the course of troubleshooting. Carefully read the notes, cautions, and warnings associated with each component prior to measuring the voltages and resistances.
- *b.* Observe the following precautions when measuring voltages greater than 5000 volts.
 - (1) Turn off the searchlight set.

- (2) Discharge the capacitor bank by shorting pin T and pin X at J3 on the control box.
- (3) Connect the multimeter leads to the test points.
 - (4) Step away from the multimeter.
 - (5) Turn on the searchlight set.
 - (6) Note the multimeter reading.
 - (7) Turn off the searchlight set.
 - (8) Discharge the capacitor bank again.
 - (9) Remove the multimeter leads.

8-10. Control Box Switch Test procedures

- a. Before performing switch continuity checks, prepare the control box for checks by performing the following procedures:
 - (1) Turn off the power to searchlight set.
- (2) Disconnect all interconnecting cables to the control box.
- (3) Discharge capacitor bank by momentarily connecting a 500 ohm 10 watt resistor from J4-A to J4-T.
- b. If an open circuit is found, refer to the schematic diagram of the searchlight set and measure continuity of the switch contacts directly across switch. If the switch is good, check connecting wiring back to the measurement point to find the open circuit. If the switch contacts are open, replace switch as a unit. Refer to paragraphs 9-2 and 9-3 for replacement procedures for the control box components.

Switch	Switch Switch	Measure	Measure continuity		
checked	position	From	То		
S1 (REMOTE/LOCAL switch)	REMOTE	J2-A J2-B J2-C J2-D J2-H J2-I	TB2-21 J3-N J3-C TB2-6 J3-D TB2-22		

Switch Continuity	heckout Chart—cor	nued		
Switch	Switch	Measure continuity		
checked	Position	From	То	
S2	LOCAL	J3-C J3-D J3-M J1-A	J1-B J3-R S3-2 J3-D	
(VISIBLE/ INFRA RED/ OFF switch)	INFRA RED VISIBLE	J1-B J1-B J1-B J3-C	J3-C TB2-22 J3-D TB2-6	
S3 (COMPACT/ SPREAD BEAM switch)	Hold in SPREAD BEAM COMPACT BEAM	J3-F J3-G	TB2-6	

Note. Before continuing the procedure, remove printed circuit board 2A1A3, and temporarily short lamps DS3-1 to DS3-2 with an alligator clip or short piece of wire.

S4	9 9 4 5 6 7	το Δ	J 5 - B
54	2, 3, 4, 5, 6, 7	J 3 - A	19-D
(CIRCUIT	2	I J5-C	J 5 - J
TEST switch)	3	J 3 - P	J 5 - L
	4	J 3 - T	J 5 - L
	5	J 3 - A	J 5 - H
	6	J 3 - J	J5-P
	7	J 3 - A	J 5 - D

8-11. Control Box Relay Actuation Check

Before starting the relay actuation check, prepare equipment by performing the following procedure.

- (1) Turn off the search light set.
- (2) Disconnect the input power cable and the interconnecting cable between the searchlight and control box.
- (3) Set S2 to the INFRA RED position and S4 to position 2.
- (4) Connect the negative side (-) of the vehicle power source to TB1-1.
- (5) Connect a long clip lead to the positive side (+) of the vehicle power source. This + lead will be used to actuate the relays.

K2 Connect + lead to K2-3. Check for + voltage between J3-A(-) and K2-2(+); J3-A(-) and K2-7(+).

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- K3 Connect + lead to J3-V. Check for continuity between J3-R and J3-B.
- K1 Connect + lead to K1-X1. Connect a long clip lead between TB1-1 and K1-X2. Check continuity between K1-A1 and K1-A2.

NOTE

Before performing the control box troubleshooting, prepare the control box by performing the following procedure:

- (1) Turn off the searchlight set.
- (2) Disconnect the input power cable at J1 on **the** control box.
- (3) Remove the control box cover to expose the interior of the control box.
- (4) Set the control box switches to the following positions:

Power switch to OFF

Beam switch to COMPACT

REMOTE/LOCAL switch to LOCAL

CIRCUIT TEST switch to OPERATING POSITION

(5) Reconnect the input power cable.

WARNING

High voltage is present inside the control box and on the cable connectors during operation. Accidental contact may cause serious injury or death. Always shut off power and disconnect the input power cable before attempting any removal or replacement of parts or disassembly of the control box.

8-12. Control Box Symptom Troubleshooting Chart

s	Possible cause	To isolate trouble to a particular cause	Corrective action
Searchlight does not turn on; blower does not operate. CIRCUIT TEST indicator does not light.	a. No power input; vehicle power supply off or defective.	Measure input power at A and B of J1. Be sure vehicle power supply is on.	Turn on vehicle power supply, troubleshoot vehicle power supply if no voltage is present at J1-A to J1-B.
	b. Defective power switch S2.	a. Attempt remote turn-on. If searchlight set turns on from remote control box, power switch S2 is defec- tive.	 a. Check continuity of power switch S2 (paragraph 8-10). b. Replace switch S2, if defective (paragraph 9-2 and 9-3).
	c. Defective relay K1.	Connect a jumper between K1-X2 terminal to J1-B. Measure voltage across K1-A2 (+) J1-B.	 a. If voltage is not present across K1-A1 to J1-B, replace K1. b. If voltage is present across K1-A1 to J1-B, replace switch S2 (paragraph 9-2 and 9-3).
No arcing or flickering at xenon lamp (blower operates)	a. Defective timer circuit; starting time too short.	Turn off searchlight set. Disconnect cable from J3. Connect VOM between TB2-2 and TB2-9. Turn on power and time circuit with a watch.	If delay is less than 6 seconds, replace P.C. board (paragraph 9-2 and 9-3).
	b. Defective capacitor in capacitor bank.	a. Measure voltage across capacitor bank J4-A to J4-T. If voltage is below +22 volt dc, a shortened capacitor may be present.	 a. Replace defective capacitor (paragraph 9-2 and 9-3).

Symptom	Possible cause	To isolate trouble to a particular cause	Corrective action	
	c. Defective booster starter.	b. Disconnect each capacitor until defective capacitor is found. Be certain to turn off searchlight set before disconnecting each suspected capacitor. Measure capacitor bank voltage from J4-A to J4-T. Voltage should be +100V nominal. If not, refer to paragraphs 8—17 to 8—20 for checkout of	b. Replace capacitor. Replace booster.	
	d. Defective igniter circuit.	booster-starter unit. Refer to paragraphs 8–17 to 8–20 for further troubleshooting information.		
Xenon lamp flashes but does not remain on.	a. Defective ballast resistor.	a. Check ballast resistor with CIRCUIT TEST circuits. Refer to step 3, trouble-shooting chart based on starting procedure.	a. Repair or replace ballast resistor as required.	
Xenon lamp lighta; LAMP ON indicator does not light.	a. Defective indicator bulb.b. Broken wires on lamp holder or current sensing assembly A7.	b. Check control box wiring continuity.a. None.b. Check continuity of connecting wires.	b. Repair defective wiring.a. Replace bulb.b. Repair broken wires.	
	c. Contacts of A7 broken or defective.	c. After xenon lamp is on, measure voltage across A7-1 to A7-2.	c. If voltage is present, replace A7.	

Section III. REMOTE CONTROL BOX TROUBLESHOOTING AND REPAIR

8-13. General

- a. The remote control box duplicates controls and indicators found in the control box. If an abnormal condition is found during troubleshooting baaed on starting procedure, step 12 (paragraph 8-6), the trouble may be localized to the remote control box or the interconnecting cable.
- b. Trouble in the remote control box may best be isolated by making a series of switch continuity checks, paragraph 8-16. When an abnormal continuity check is found, perform the troubleshooting procedure given in paragraph 8-15.

8-14. Reference Data

The following data is supplied as an aid to the repairman during troubleshooting of the remote control box.

Reference	Data
Paragraph 8-6	Troubleshooting chart based on
5 1	starting procedure
Paragraph 8-15	Troubleshooting procedure
Paragraph 8-16	Remote control box switch test
	procedures
Paragraph 9-5 to 9-6	Replacement procedures for remote control box components

8-15. Troubleshooting Procedure

Remove remote control box mounting cover. Refer to disassembly instructions, paragraph 9-5 and 9-6.

- *a.* Inspect wiring for burned, broken or shorted wires and bent, loose or broken terminals.
- b. Inspect inside of remote control box housing for the presence of foreign objects that may cause short circuits. These objects could be pieces of

solder, wire trimmings, metal particles or small metal parts.

- c. Inspect jack J1 and wire terminations for proper connection.
- d. Check resistance from one end of wire through the fork crimp-on terminal to the metal fork attached to the wire termination point. This test assures that the crimp-on terminal lug is not crimped to the wire insulation only, and is attached to the metal conductor.

NOTE

Before performing switch continuity checks, disconnect the interconnecting cable between the control box and remote control box.

8-16. Remote Control Box Switch Test Procedures

Switch checked	Switch position	Measure con From	tinuity To
S1 (VISIBLE/ INFRA RED/ OFF switch)	OFF	J1-C J1-G	J1-J J1-H
OII switch	INFRA RED	J 1 - J J 1 - G J 1 - C	J 1 - I J 1 - H J 1 - J
	VISIBLE	J1-C J1-J J1-J	J1-G J1-H J1-I
S2 (COMPACT- SPREAD BEAM switch)	COMPACT SPREAD	J 1 - A J 1 - D	J1-E J1-F

Section IV. SEARCHLIGHT TROUBLESHOOTING REPAIR

8-17. General

All cautions and warnings must be observed when troubleshooting and repairing the searchlight set to insure the safety of personnel.

WARNING

Extremely high voltages exist in the searchlight assembly during operation. Accidental contact with these voltages may cause personal injury or death. When servicing the searchlight assembly, observe the following precautions:

- (1) Disconnect the interconnecting cable from the control box.
- (2) Short circuit J1 pin T to J1 pin X before performing any testing or adjustments to the searchlight frame.
- (3) Wear face mask, leather gloves, and leather jacket when replacing the xenon lamp.

8-18. Reference Data

The following data is supplied as an aid to the repairman during troubleshooting of the search-light.

Reference		1	Data
Paragraph	8-3	Fuses. location	
Chapter 2		Searchligh	t set, block diagram
Paragraph	9-5 to 9-6	Replaceme	ent procedures for
	:	searchlight co	omponents

8-19. DC Resistance of Cable

Refer to the schematic diagram of the searchlight set. Before making resistance measurements at cable connector, prepare the equipment by performing the following procedure:

- (1) Set searchlight set to COMPACT beam mode.
 - (2) Turn off searchlight set.
 - (3) Disconnect cable at J1 of searchlight.
- (4) Short J1-T to J1-X at seachlight with an alligator clip or short piece of wire.
- (5) Measure the resistance between the cable connector pins on J1 and verify the results are as specified.

DC RESISTANCE AT CABLE CONNECTOR

Connector pins		
From	To	Normal resistance
A	В	10 ohms max.
C	I	0.5 ± 0.5 ohm
C	J	20±5 ohms
D	J	0.5 ± 0.5 ohm
D	Н	500K ohms min.
E	F	20±5 ohms
E	G	500 K ohms min.
M	P	40 K ohms and 500 K ohms min. (mea-
		sure, then reverse test probes and mea-
		sure again to obtain both values)

J1	?	N	J	_	
Connecte From	or pins To	Normal resistance	From	tor pins To	Normal resistance
N P P	W W T	50K ohms min. 0.2 ohm max. 50±5 ohms and 500K ohms min. (measure, reverse test probes and measure again)	R T	V X	40K ohms min. 7K ±1K ohms and 35K ±3K ohms mea. sure, reverse test probes and measure again)

8-20. Searchlight Symptom Troubleshooting Chart

Symptom	Possible Cause	To isolate trouble to a particular cause	Corrective action
Xenon lamp flickers but remains off; blower operates.	a. Defective timer circuit.	a. Refer to control box troubleshooting and repair (paragraph 8-7 to 8-12).	
operates.	b. Defective capacitor bank.	b. Refer to control box troubleshooting and repair (paragraph 8-7 to 8-12).	
	c. Defective booster-starter.	c. Measure capacitor bank voltage from J4-A to T at control box. Should be 100 volts nominal. If volt- age is below +100V dc, the booster-starter is defective.	Replace booster-starter.
	d. Defective igniter.	d. Bring fluorescent lamp in proximity to high voltage line. Lamp should glow.	Replace igniter if lamp does not glow.
Xenon lamp flashes, but does not remain on.	a. Defective ballast resistor.	a. Check ballast resistor. Refer to step 3, paragraph 8-6.	a. Replace ballast resistor.
	b. Defective switching diode, 1A2CR3.	b. Check diode. Refer to step 4, paragraph 8-6.	b. Replace diode.
	c. Shorted or open wires in searchlight assembly.	c. Perform resistance checks and visual inspection on suspect wiring.	c. Repair or replace defective wiring.
Cannot switch between INFRA RED and VISI- BLE mode	a. Blown fuse F1.	a. Check fuse F1. Refer to paragraph 8-3 for location of fuse.	a. Replace Fuse F1.
BEE Mode	b. Defective limit switch 1A2S2.	b. Shut off searchlight set.	b, Replace defective switch.
		c. Disconnect interconnecting cable.	
		d. Rem ove searchlight sup- port assembly from search-	
		light case (paragraph 9-7). e. Check that mechanical	
		stops Ml and M2 are engaging one of the two limit	
		switches S1 or S2. f. Measure resistance of	
		switch contacts S1-C to S1-NO and S1-C to	
		S1-NC. If S1 is engaged	
		by Ml, switch contacts S1-C and S1-NO should	
		he closed; contacts S1-C and S1-NC should be	
		open. If S1 is not engaged by Ml, S1-C to S1-NO	
		should be open; S1-C to S1-NC should be closed.	

Symptom	Possible Cause	To isolate trouble to a particular cause	Corrective action
		g. Measure resistance of switch contacts S2-C to S2-NO and S2-C to S2-NC. If S2 is engaged by M2, switch contacts S2-C and S2-NO should be closed; contacts S2-C and S2-NC should be open. If S2 is not engaged by M2, S2-C to S2-NO should be open; S2-C to S2-NC should be closed. h. Push in switch not engaged by a stop and verify proper function.	
	c. Defective filter motor.	 a. Shut off searchlight set. b. Disconnect interconnecting cable. c. Remove searchlight support assembly from search 1 i g ht housing (paragraph 9-7). d. Measure resistance to infrared filter drive motor from 1 A 2 TB 2-6 to 1 A 2 TB2-7. Resistance should be 20 ±5 ohms. 	Replace infrared filter drive motor if motor winding does not measure 20 ± 5 ohms.
	d. Diode 1A2 CR3 open.	Check diode. Refer to step	Replace diode.
	and gear rack on infrared filter.	 b. Remove interconnecting cable. c. Rem ove searchlight support from searchlight housing (paragraph 9-7). d. Blow foreign material from gear rack and drive gear with high pressure air hose. 	Clean gear rack and drive gear.
	b. Defective SPREAD/ COM-		Replace fuse F2.
BEAM operation.	PACT beam switch c. Defective focus motor limit switch 1A2S5.	troubleshooting and repair, paragraph 8-7 to 8-12. c. Shut off searchlight set. d. Disconnect interconnecting cable. e. Rem ove searchlight support assembly from search 1 ight housing (paragraph 9-7). f. Short 1A2 TB2-4 to 1A2 TB2-5. g. Connect +24 volts dc from dc power source as follows: +24 volts dc to 1A2 TB2-4 and 5. Return to 1A2 TB2-3. h. Motor will rotate. If motor does not rotate, connect +24 volts dc to 1A2 TB2-2. If motor still does not rotate, replace motor.	Replace switch 1A2S5 or focus motor as required.

Section V. HEAT EXCHANGER TROUBLESHOOTING AND REPAIR

8-21. General

- a. The heat exchanger contains the blower motor assembly, rear cover assembly and ballast resistor assembly.
- b. Once a trouble has been sectionalized to the heat exchanger, locate the trouble symptom in the symptom column of paragraph 8-24. Possible causes of trouble are listed in the possible cause column. To isolate the trouble to one of the possible causes listed, follow the instructions given in the to isolate trouble to a particular cause column. Once the particular cause of trouble has been isolated, perform the indicated action in the corrective action column.

8-22. Reference Data

The following data is supplied as an aid to the repairman during troubleshooting of the rear cover assembly.

Data

Reference Chapter 2 Searchlight set, block diagram Paragraph 9-7 and 9-8 . .. Replacement procedure for rear cover components Paragraph 8-23 Voltage and resistance measure-

troubleshooting chart

Paragraph 8-28 to 3-30 .. Searchlight set adjustment procedures

- 8-23. Voltage and Resistance Measurements
- a. Voltage measurements
- (1) To measure voltages on the heat exchanger it is necessary to prepare the equipment by using the following procedure:
 - (a) Shut off searchlight set power.

- (b) Unlatch heat exchanger.
- (c) Leaving wires to heat exchanger connetted, lower heat exchanger to work surface.
 - (d) Turn on searchlight set power.

CAUTION

Do not operate searchlight set for an extended period of time with heat exchanger removed. Without air-to-air cooling provided by the heat exchanger, the searchlight will overheat and possible damage to equipment may result. Leave power on only long enought to note voltage reading.

(2) The test points and normal voltage indications at the test point are as follows.

NOTE

All measurements are to be made with multimeter.

Normal voltage indications Test point TB3-1 to TB3-2 (+)22 to 28V dc Ballast resistor terminals . ..5.5 dc ±1.5V dc approximately

b. Resistance measurements

CAUTION

To measure resistance on the heat exchanger, turn off power and discharge capacitor bank by shorting pin T and X of J4 at the control box. Disconnect the power cable.

Test point Normal dc resistance TB3-1 to TB3-2 Ballast resistor terminals

TB3-1 to TB3-2High resistance Ballast resistor terminals0.130W ±10% approximately l to 2

8-24. Heat Exchanger Symptom Troubleshooting Chart

To isolate trouble Possible Cause Symptom to a particular cause

Blower motor does not a. No voltage to blower operate. motor.

Check voltage to blower motor. Refer to step 5, paragraph 8-6.

Corrective action

Symptom	Possible Cause	10 isolate trouble to a particular cause	Corrective action
	b. Defective blower motor B3.	Check voltage to blower motor. Refer to step 5, paragraph 8-6.	Replace blower motor if required.
	c. Shorted capacitor in filter 1A3 FL1.	a. Shut off searchlight set.b. Disconnect interconnecting cable.	Replace FL1, if required.
		c. R e move heat exchanger. Leave wires to heat exchanger connected.	
		d. Remove wires to F11 at 1A3 TB3-1 and 2.	
		e. Replace heat exchanger.	
		f. Connect interconnecting cable.	
		g. Turn on searchlight set. If	
		blower operates, replace	
		1A3 FL1 as a unit.	

To include thouble

Section VI. POWER CABLE TROUBLESHOOTING AND REPAIR

8-25. General

- a. Refer to paragraph 7-6, cable check and repair, before attempting to perform a continuity check of the power cable.
- b. Substitution of a known good cable for the suspected defective cable will quickly prove or disprove cable serviceability.
- c. If no known good cable is available, or for some other reason the suspect cable is to be checked, measure continuity from pin to pin on the cable. Use a multimeter and follow the procedure in paragraph 8-26.

8-26. Power Cable Continuity Check

To perform a continuity check on the power cable, follow the step-by-step procedure below. For cable

connections, see figure 8—1 cabling diagram.

Procedure

- 1 Turn off searchlight set.
- 2 Disconnect power cable at searchlight assembly.
- 3 Disconnect power cable at control box assembly.
- 4 Remove power cable from vehicle (if practical).
- 5 Bend cable in a U-shape so that both cable connectors are easily accessible.
- With a multimeter set at the lowest resistance scale, measure cable resistance from pin to slug starting with A to A, B to B, C to C, etc. (Figure 8-1.)
- 7 If an open is discovered, replace cable.
- If the cable checks good, but is still suspect, measure from pin to plug; bend and twist cable to find any intermittent opens.

8-27. Repair of Power Cable

The power cable, which connects the searchlight to the control box, cannot be repaired. If, after continuity checking, the power cable is determined to be faulty, it must be replaced.

Section VII. SEARCHLIGHT SET ADJUSTMENT PROCEDURES

8-28. General

- a. After removing and replacing certain parts contained in the focus motor assembly or the infrared filter assembly it is necessary to readjust connecting parts to assure proper functioning of the searchlight set.
 - b. Removal, replacement or disassembly of any

mechanical part that affects the adjustment of either the focus motor assembly (including the reflector-deflector assembly) or the infrared filter assembly will make readjustments necessary.

c. Some of the parts that necessitate readjustments to be made after their removal, replacement or disassembly are listed below. Also listed is the adjustment procedure to be performed.

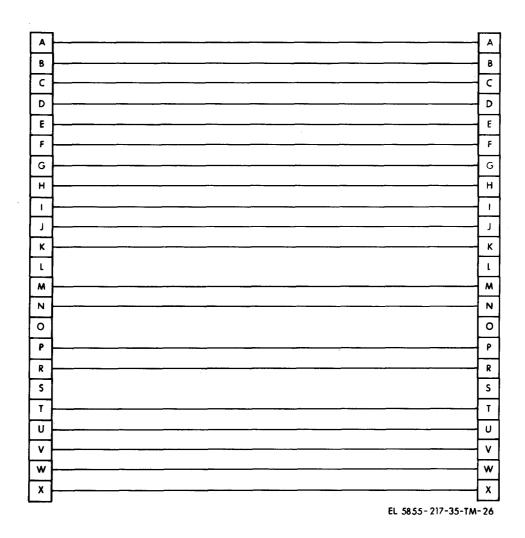


Figure 8-1. Cabling diagram for cable connections.

Part Removed Adjustment Procedure Necessary Limit switches S1 and S2 Infrared filter assembly Infrared filter motor Infrared filter assembly Infrared filter Infrared filter assembly Reflector drive mechanism Focus motor assembly including limit switch S5 and focus motor

8-29. Adjustment of Infrared Filter Assembly

Perform the following step-by-step procedure in the order given. (See figure 9-8 for location of parts and numbered references.)

Step Procedure

- 1 Assure that the infrared filter is positioned against the biped assembly (7, figure 9-8)
 - Note. The following steps are required if the infrared filter is positioned without the use of electrical power, Refer to figure 9-8 for identification of parts.
 - a. Loosen the two bolts (141) holding switch bracket (139) to bracket assembly (137).
 - b. Loosen the two screws (62) on motor bracket (57) until spur gear (51) no longer engages gear rack on filter assembly (32).
 - c. Position the infrared filter against the biped assembly (7).
 - d. Tighten the bolts and screws that were loosened in step la and lb.
- Verify that the vertical sleeve spacer (55) engages the pushbutton of the forward limit switch (140).
- 3 Connect ohmmeter between S1-1-C common and S1-2 norm open terminals.

Step Procedure

- 4 Adjust the nuta on the collar of S1 to position the switch in and out of the switch bracket until the switch just changes to the closed state. Tighten the mounting nuts.
- 5 Observe the ohmmeter for an indication of zero resistance.
- 6 Disconnect the ohmmeter from S1.
- 7 Connect a jumper between TB2-8 and 9.
- 8 Adjust the power supply for +10 volts dc.
- 9 Turn the power supply off and make the following connections.

Power supply + to TB2-8 and 9 Power supply - to TB2-10

10 Observe the infrared filter and turn on the power supply until the filter is fully retracted. (About 1/4 in. of filter will remain protruding from the reflector retaining ring.)

Note. If the infrared filter is stopped by the limit switch at some partially retracted position, do not turn the power supply off, but proceed as follows:

- a. Adjust the mounting nuts on the collar of S2 to position the switch farther out of the switch bracket (139, figure 9-8).
- b. For each new position of S2, the infrared filter will retract a little more.
- c. When the infrared filter is 0.015 in. from the rear lamphouse cover, disconnect the power supply and tighten the mounting nuts on S2.

d. Proceed to step 14.

- 11 If the infrared filter is fully retracted, but was not stopped by use of the limit switch, disconnect the power supply.
- 12 Connect an ohmmeter between S2-10 norm open and S2-11 common terminals.
- 13 Adjust the mounting nuts on the collar of S2 to position the switch closer to switch bracket (139, figure 9-8) until the ohmmeter indicates a closed switch. Continue to move the limit switch to a position just a little more than that required to open the switch.
- Connect the power supply as follows:

 Power supply + to TB2-10 and 9

 Power supply to TB2-8
- 15 Turn the power supply on and observe that the infrared filter travels to the biped assembly.
- By the use of a dental mirror, check the seating of the infrared filter to the biped. In operation, the infrared filter should strike the biped without forceful contact.
- 17 Disconnect the power supply and measure the resistance of S1-1-C common and S1-2 norm open terminals. Assure the resistance is zero ohms.

Step Procedure

- 18 Connect the power supply as follows:

 Power supply + TB2-8 and 9

 Power supply TB2-10
- 19 Turn the power supply on and observe the infrared filter motor retracts the infrared filter until about 1/4 in. of filter is protruding from the retaining ring on the reflector.
- 20 Disconnect the power supply and measure S2-10 norm open and S2-11 common terminals to verify the switch is closed.
- 21 Remove the two screws (141) holding the limit switch mounting bracket (139) to the resilient mount bracket (137).
- 22 Tighten mounting lock nuts (138) on the limit switches (140).
- 23 Align the holes in the limit switch mounting bracket to the holes in the resilient mount assembly.
- 24 Insert and tighten the mounting screws.

8-30. Adjustment of Focus Motor Assembly

Perform the following adjustment procedure in the order given.

Step Procedure

- 1 Remove heat exchanger from searchlight (paragraph 9-7).
- 2 Provide forced air cooling to the xenon lamp.
- 3 Turn searchlight set on in visible mode.
- 4 Set the COMPACT/SPREAD switch to COMPACT.
- 5 Select a target area to focus the searchlight, (approximately 100 feet)
- 6 Adjust setscrew (1, figure 9—9) to obtain a sharp focused spot on the target.
- 7 Set the power switch to OFF and allow the searchlight to cool.
- 8 Remove the power cable from J1 at the searchlight.
- 9 Short circuit J1-X to J1-T.
- 10 Remove the searchlight housing (paragraph 9–7).
- 11 Remove mounting screw (4) on switch S5, figure 9-8.
- 12 Remove flexing rod (2, figure 9–10) from switch S5.
- Adjust the flexing rod to obtain a clearance of .008 ±.002 inches between the reflector and deflector plate. This clearance must occur when B2 is mounted on limit switch S5.
- 14 Replace reflector rod on switch S5.
- 15 Replace the heat exchanger case assembly.
- 16 Connector the power cable to J1.
 - Note: This completes the adjustment procedure for the focus motor,

CHAPTER 9

REPLACEMENT PROCEDURES FOR SEARCHLIGHT SET COMPONENTS

Section I. INTRODUCTION

9-1. General

- a. Replacement procedures for searchlight set components contained in this chapter are to be used as a guide for repairing the searchlight set. A section is alloted to each major component of the searchlight set. The major components and the section containing replacement procedures for each major component are listed below:
 - (1) Control box Section II
 - (2) Remote control box Section III
 - (3) Searchlight assembly Section IV
 - (4) Heat exchanger Section V
 - b. To remove and replace a part contained in a

major component, refer to the section covering that major component, locate the part to be replaced in the removal and replacement chart, and perform the procedure in the order given. Refer to the figures listed in the reference column for location of parts.

c. Retain all reusable parts, such as mounting brackets and hardware, and inspect adjacent pints for signs of wear or damage.

WARNING

Remove all power from the searchlight set and disconnect input power cable before attempting any replacement procedures. Discharge capacitor bank.

d. Read and perform the preliminary procedures listed in each section before performing any replacement procedures.

Section II. REPLACEMENT PROCEDURES FOR CONTROL BOX COMPONENTS

9-2. General

Before proceeding to the replacement procedures listed in paragraph 9-3, prepare the control box for parts replacement by performing the following step-by-step procedure:

- a. Disconnect the interconnecting cables at the control box.
- *b.* Short J4-A to J4-T at the control box to discharge the capacitor bank.

- c. Remove the four mounting bolts holding control box in vehicle.
- *d.* Remove the twelve screws in the mounting plate.
- *e.* Remove mounting plate and gasket from control box to expose interior of the control box.

NOTE

Refer to figure 9-1 for location of parts in control box. Refer to figure 9-2 for exploded view of control box.

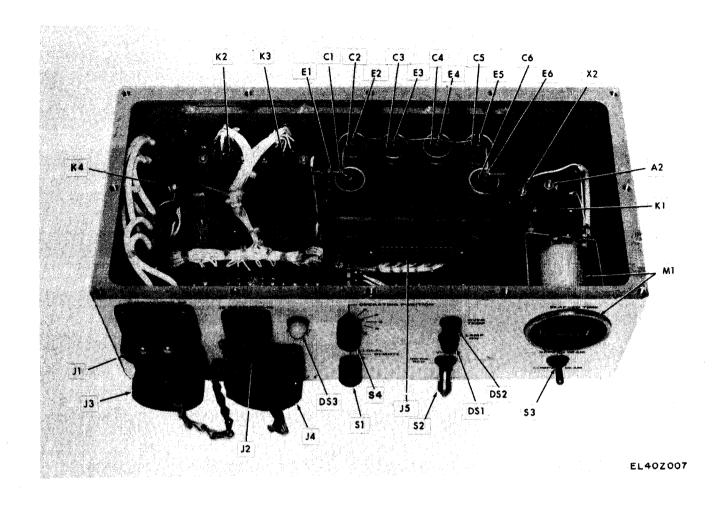


Figure 9-1. Control box (less cover and printed circuit board).

9-3. Removal and Replacement of Parts in Control Box

The directions in a through t cover the removal and replacement of the parts in the control box.

- a. Removing S1 REMOTE/LOCAL Switch (figure 9-2), To remove S1 REMOTE/LOCAL switch from the control box, proceed as follows:
- (1) Remove knob (95) from rotary switch (97) by loosening allen setscrew in knob.
- (2) Unscrew switch mounting nuts (96) on front panel (138),
- (3) Push switch (97) through mounting hole in front panel and remove switch. (Be careful not to break the connecting wires.)
- (4) Note and tag each connecting wire location to aid in reassembly.

- (5) Unsolder wires and remove switch.
- b. Replacing S1 REMOTE/LOCAL Switch (figure 9-2). To replace S1 REMOTE/LOCAL switch in the control box, proceed as follows:
- (1) Solder tagged connecting wires onto switch (97).
- (2) Push switch shaft through mounting hole in front panel (138).
 - (3) Correctly align switch in mounting hole.
 - (4) Install mounting nut (%) over switch shaft.
 - (5) Replace knob (95).
- c. Removing S2 VISIBLE/INFRARED/OFF Switch (figure 9-2). To remove S2 VISIBLE/INFRARED/OFF switch from the control box, proceed as follows:
- (1) Set toggle switch (82) to INFRARED (center) position.

- (2) Remove mounting nut (79), key washer (81) and seal (80) from switch shaft with a deep socket.
- (3) Push switch through mounting hole in front panel (138).
- (4) Note and tag each connecting wire location.
- (5) Unscrew terminal screws on switch terminals enough to allow removal of forked wire terminals.
 - (6) Remove wires.
 - (7) Remove switch.
- d. Replacing S2 VISIBLE/INFRARED/OFF Switch (figure 9–2). To replace S2 VISIBLE/IN-FRARED/OFF switch in the control box, proceed as follows:
- (1) Install each wire and tighten the terminal screws.
- (2) Push toggle switch (82) through mounting hole in front panel (138).
- (3) Install keying washer (81), seal (80) and mounting nut (79) over toggle and tighten mounting nut.
- e. Removing S3 COMPACT/SPREAD Beam Switch (figure 9-2). To remove S3 COMPACT/SPREAD beam switch from the control box, proceed as follows:
- (1) Set toggle switch (78) to the center position.
- (2) Remove mounting nut (75), seal (76) and keying washer (77).
 - (3) Push toggle through mounting hole.
 - (4) Note and tag each wire location.
 - (5) Unsolder the connecting wires.
 - (6) Remove switch.
- f. Replacing S3 COMPACT/SPREAD Beam Switch (figure 9-2). To replace S3 COMPACT/

- SPREAD beam switch in the control box, proceed as follows:
 - (1) Solder connecting wires onto switch.
- (2) Install toggle switch (78) through rear of front panel (138). mounting hole.
- (3) Install keying washer (75), seal (76) and mounting nut (77). Then, tighten mounting nut.
- g. Removing DS1, DS2, DS3 (Indicators) (figure 9-2). To remove the indicators (84), (88) and (99) from the control box, proceed as follows:
- (1) Note and tag each connecting wire location.
- (2) Unsolder wires on back of indicator housing (85), (100) and (89).
- (3) Unscrew and remove mounting nut (86), (90), (101) and washers from real of panel (138).
- (4) Push on rear of indicator housing until housing drops out front of panel (138).
- h. Replacing DS1, DS2, DS3 (Indicators) (figure 9-2). To replace the indicators (84), (88) and (99) in the control box, proceed as follows:
- (1) Install housing in mounting hole on the front panel.
- (2) Install mounting nut over the rear of the housing.
 - (3) Resolder connecting wires.
- i. Removing Elapsed Time Meter (figure 9-2). To remove the elapsed time meter (74) from the control box, proceed as follows:
- (1) Unscrew attaching part (69, 70, 71) on meter studs.
 - (2) Remove U-shaped mounting bracket (72).
 - (3) Loosen meter terminal nuts.
 - (4) Tag and remove connecting wires.
 - (5) Remove meter (74) and gasket (73).

		=0	
1	Control mounting plate, MP1	70	Lock washer (part of meter, A1M1)
2	Machine screw, H1-12	71	Plain washer (part of meter, A1M1)
3	Control gasket, MP2	72	Meter bracket (part of meter, A1M1) Meter gasket, A1MP2
4	Identification plate, MP3	74	Time totalizing meter A1M1
န	Drive screw, H2-4 Hexagon plain nut, A1H58-3, A1H40-3,	75	Time totalizing meter, A1M1 Hexagon plain nut(art of switch, A1S3) Washer Key, A1A2AP1
. 7	Plain washer, A1H59—3, A1H12—3	7 6	Washer Key, A1A2MP1
ន់	Lockwesher A1H60—3 A1H31—3	77	Packing with retainer A1MP19
ğ	Lockwasher, A1H60—3, A1H31—3 Armature relay, A1K2, A1K3	78	Toggle switch, A1S3
1Ŏ	Relay bracket, A1MP3	79	Hexagon plain nut (part of switch, A1S2)
11	Machine screw, A1H48-4	80	Washer key A1MP20
12	Lockwasher, A1H26—4	81	Washer flat A1MP13
13	Flat washer, A1H8—4	82	Washer flat A1MP13 Toggle switch, A1S2 Indicator light lens A1MP17
14	Machine screw. A1H51-2,	83	Indicator light lens AIMP17
15	Safety shield, A1A4 Shield bracket, A1A6MP1, A1A5MP1 Clinch self-locking nut, A1A6MP2, A1A5MP2	84 95	Incandescent lamp, A1DS1 Indicator light housing, A1MP28 Hexagon pin nut (part of A1MP28) Indicator light lens, A1MP16 Incandes at lamp A1DS2
10	Clinch colf looking nut A1 ACMPO A1 ACMPO	96	Havagon bin nut (part of A1MP98)
16	Machine covery A1M45-5	87	Indicator light lens A1MP16
18	Machine screw A1H45—5 Lockwasher, A1H18—4	88	Incandescent lamp, A1DS2
20	Plain washer, A1H3-4	89	Indicator housing. A IMP29
21	Capacitor mounting bracket, A1A2	90	Hexagon pin nut (part of A1MP29) Knob, AIMP14
21 22	Machine screw, A1H45—A	91	Knob, AlMP14 "
23	Machine screw, Al-145—A Lockwasher, Al-118—4	92	Hexagon plain nut (put of A1S4)
24	Plain washer, A1H3—4	93	Hexagon plain nut (part of A1S4) Lockwasher (part of A1S4) Rotary switc, A1S4
25	Timer-CB circuit card, A1A3	94	Kotary Swith, A184
20	SOUD MYET ALAZOLS—Z ALAZOLS—Z	96	Hoveron plain put (sert of A1S1)
27	Circuit board retainsr, Al A2MP14, Al A2MP15 Machine screw, Al A2H17—2 Lockwasher, Al A2H16—2	97	Rotary switch, A1S4 Knob, A1MP15 Hexagon plain nut (part of A1S1) Rotary switch, A1S1 Indicator light lens, A1MP18
20	Machine screw, A1A2H17-2 Lockwasher, A1A2H16-2	98	Indicator light lens, A1MP18 Incandescent lamp, A1DS3 Indicator light housing, A1MP27 Hexagon plain nut(prt of A1MP27) Machine screw, A144-2
30	Flat washer, A1A2H15—2	99	Incandescent lamp, A1DS3
31	Sleeve spacer, A1MP16	100	Indicator light housing, A1MP27
32	Solid rivet, A1A2H1—2 thru A1A2H12—2	101	Hexagon plain nut(prt of A1MP27)
33	Spring chp, A1A2MP2 thru A1A2MP13—2	102	Machine screw, All44-2
34	Machine screw, A1H52-10	103	Lockwasher, A1H20-2, and plain washer, A1H4-2 Electrical connector cover chain (part of A1MP9)
35	Insulated feedthrough terminal, A1A2E1—E10	104	Floatrical connector cover chain part of A1MPO
36	Insulated feedthrough terminal, A1A2E-102-E103	106	Electrical connector cover chain(part of A1MP9) Rivet, recessed thread, A1MP27
37	Electrolytic fixed capacitor, A1A2C1 thru A1A2C6	107	Electrical connector cover, A1MP11
38	Machine screw, A142-2	108	Machine screw, A1H44-2, lockwasher, A1H20-2, and
39	Lockwasher, A1H17-2, flat washer, A1H2-2		flat washer, A1H4-2
40	Electrical connector, A1J5 Hexagon plain nut, A1H37-2, A1H36-4	109	Electrical receptacle connector, A1J4
42	Machine screw, A1H47-8	110	Connector gasket A1MP7
$\overline{43}$	Lockwasher, A1H23-8, AH22-20	111	Hexagon plain nut, A1H39-4 Lockwasher, A1H28-4 Flat washer, A1H10-4
44	Terminal board, A1TB2	112	Flot woshow A1H10-4
45	Identification marker, A1MP24	117	Flat washer, A1H4-2
46	Machine screw(art of terminal board, 20 required)	115	Machine screw, A1H56-4
47	Lock washer, Al22-20	116	Electrical connector cover chain (part of A1MP9)
49	Terminal link, A1MP21, A1MP22 Machine screw, A1H43-4	117	Electrical connector cover A1MP10
รี้ดั	Lockwasher A1H25—4	118	Machine screw, A1H54-4 Electrical receptacle connector, A1J2
51	Lockwasher, A1H25-4 Flat washer, A1H7-4	119	Electrical receptacle connector, A1J2
52	Terminal board, AlTB1	120 191	Connector gasket, A1MP4 Hexagon plain nut, A1H36-4 Lockwasher, A1H16-4
อช	Machine screw A1H53-2	121	Lockwasher A1H16-4
54	Lock washer, A1H29-2	123	Flat washer, A1H1—4
	Circuit breaker, A1CB1	124	Electrical connector cover, A1MP9
56 57	Identification marker A1MP25 Terminal board bracket, A1MP8	125	Machine screw, A1H57-4
58	Machine screw, A1H49-2	126	Electrical receptacle connector, A1J3
	Lockwasher, A1H33-2	127	Connector gasket, A1MP6
	Flat washer, A1H14-2	128	Hexagon plain nut, A1H41-4
61	Solenoid relay, A1K1	129	Flat W asher, A1H13-4
62	Machine screw, A1H46-4	131 131	Lock washer, A1H32-4 Machine screw, A1H55-4
63	Lockwasher, A1H21-4	132	Electrical receptacle connector, A1J1
04	Flat washer, A1H5—4	133	Connector Gasket, A1MP5
65 66	Terminal board, A1TB3 Identification marker, A1TB3	134	Hexagon plain nut. A1H38—4
67	Machine screw, A1H47—8	135	Flat washer, A1H9-4
68	Lockwasher. A1H2—8, and flat washer A1H6—8	136	Lock washer, A1H27—4
69	Hexagon plain nut (part of meter, A1M1)	137 139	Diode A1CR11 Front penel
	• •	190	Front panel

NOTE
Partial reference designations are shown.
For complete designation, prefix each item (reference designation) with assembly designation 2.

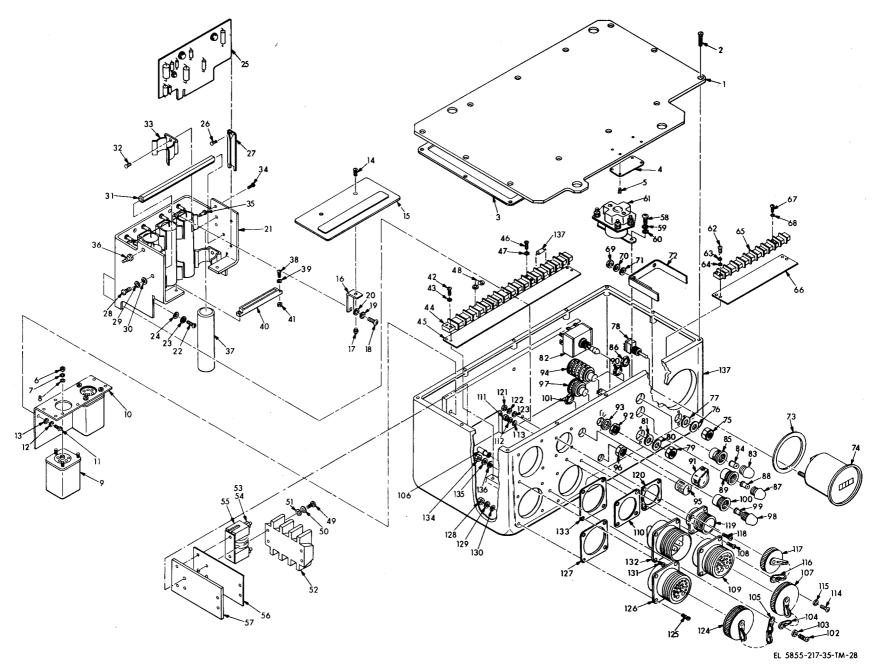


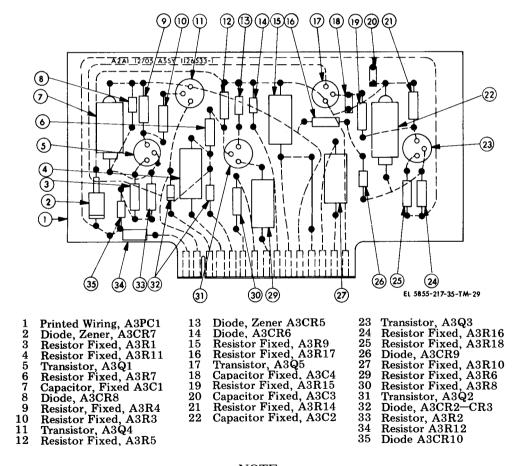
Figure 9-2. Control, searchlight set C-7905/VSS-3 (control box).

- *j. Replacing Elapsed Time Meter (figure 9-2).* To replace the elapsed time meter (74) in the control box, proceed as follows:
- (1) Install elapsed time meter (74) and gasket (73) through mounting hole in front panel.
- (2) Install the tagged wires on the meter terminals.
- (3) Install U-shaped bracket (72) over the meter studs.
- (4) Install attaching part (69, 70, 71) on meter studs.
- k. Removing Cable Connectors (Jl, J2, J3, J4) (figure 9-2). To remove the cable connector J1 (132) from the control box, proceed as follows:
- (1) Note and tag each connecting wire location.
 - (2) Unsolder connecting wires.
- (3) Unscrew and remove four sets of mounting screws (131), nuts (134), lockwashers (135) and washer (136).
- (4) Remove connector and gasket from front panel (138) mounting hole. Remove J2, J3 and J4 in same manner.
- *l. Replacing Cable Connectors (J1, J2, J3, J4) (figure 9-2).* To replace the cable connector J1 (132) in the control box, proceed as follows:
- (1) Install connector (132) and gasket (133) in mounting hole of front panel.
- (2) Install mounting screws (131), nuts (134), and washers (135), and (136) in mounting holes of connector.
 - (3) Solder connector wires to connector.
 - (4) Replace J2, J3, and J4 in same manner.
- m. Removing S4 CIRCUIT TEST Switch (figure 9-2). To remove S4 CIRCUIT TEST switch (94) from the control panel, proceed as follows:
- (1) Remove knob (91) from rotary switch (94) by loosening two allen setscrews in knob.

- (2) Unscrew and remove mounting nut (92) and washer (93) on the switch shaft.
 - (3) Push switch out rear of front panel (138).
- (4) Note and tag the connecting wire locations.
 - (5) Unsolder and remove the connecting wires.
- n. Replacing S4 CIRCUIT TEST Switch (figure 9-2). To replace S4 CIRCUIT TEST switch (94) in the control panel, proceed as follows:
 - (1) Solder wires onto switch.
- (2) Install switch (94) in mounting hole through rear of front panel (138).
- (3) Install mounting washer (93) and nut (92) over the switch shaft.
 - (4) Install switch knob (91).
- o. Removing K2 and K3 Relays (figure 9-2). To remove K2 and K3 relays (9) from the control box, proceed as follows:
 - (1) Note and tag connecting wire locations.
 - (2) Unsolder connecting wires.
- (3) Unscrew mounting nuts and washers (6, 7, and 8) from relay mounting studs.
 - (4) Remove relay (9) from relay bracket (10).
- p. Replacing K2 and K3 Relays (figure 9–2). To replace K2 and K3 (9) relays in the control box, proceed as follows:
- (1) Install relay (9) in relay bracket (10) with relay mounting studs through holes in bracket.
- (2) Install mounting nuts and washers (8, 7, and 6) on relay studs.
- (3) Solder connecting wires onto relay terminals.
- q. Removing K1 Relay (figure 9-2). To remove K1 relay (61) from the control box, proceed as follows:

- (1) Note and tag connecting wire locations.
- (2) Remove connecting wires from relay terminals.
- (3) Unscrew and remove mounting screws and washers (58, 59 and 60) on bottom mounting plate of relay.
 - (4) Remove relay (K1).
- r. Replacing K1 Relay (figure 9-2). To replace K1 relay (61) in the control box, proceed as follows:
- (1) Install relay with mounting screws and washers (58, 59, and 60) through relay mounting plate holes.
 - (2) Install connecting wires.

- s. Removing Printed Circuit Board 2A1A3 (figure 9-2). To remove the printed circuit board (25) from the control box, proceed as follows:
- (1) Remove screw (14) from cover (15) and remove cover.
- (2) Grasp top corners of PC board (25) and pull straight up while rocking board back and forth.
- t. Replacing Printed Circuit Board 2A1A3 (figure 9—2). To replace the printed circuit board (25) in the control box, proceed as follows:
- (1) Align edges of board (component side facing front panel) with mounting clips (27).
- (2) Slide board down mounting clips until board is firmly seated in board connector (40).



NOTE

Partial reference designations are shown. For complete designation, prefix each item (reference designation) with assembly designation 2A1.

Figure 9-3. Printed Board Circuit Card.

- (3) Install cover (15) and screws (14) in place.
- u. Testing Printed Circuit Board 2A1A3 (figure 9-3). To test printed circuit board 2A1A3, follow the procedure in paragraph 9-4.

9-4. Printed Circuit Board Test

To perform a test on the printed circuit board, a printed circuit board tester and power supply is needed. The power supply must meet the following output specifications.

Voltage	20 to 28V dc
Maximum current	1.0 amperes
Ripple	5%
Regulation	5%

Perform the test setup for the printed circuit board in accordance with the following steps.

- (1) Connect the test equipment as shown in figure 9–4.
- (2) Adjust the power supply to obtain 24V dc ± 3 volts.
- (3) Turn off the power supply and insert the printed circuit board (PCB) 1126533-1 in the text fixture connector.

Perform the following test procedure for the printed circuit board. Insure that expected results are attained as indicated. Sequentially set switch S1 to the positions indicated and verify the results are as specified.

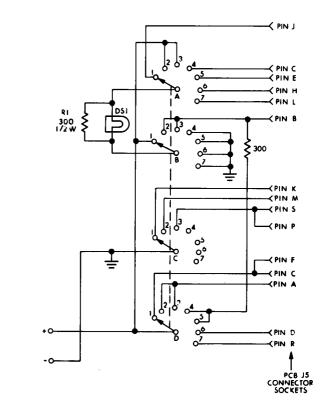
Sw	itch position	Result
7		Indicator glows immediately
6		Indicator glows immediately
5		Indicator glows immediately
4		Indicator glows immediately

Butter 1 dettion							
3		0					9
1	Inc	dicator gl	lows im	ıme	diate	elv	

Result

Switch Position

With selector switch S1 in position 1, lower the power supply voltage until the test fixture indicator is extinguished. Verify the power supply voltage is $20V ext{ dc } \pm 1V$.



A. SCHEMATIC DIAGRAM OF PCB TEST FIXTURE

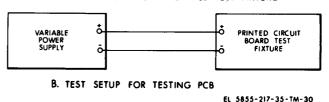


Figure 9-4. Test setup for printed circuit board test.

Section III. REPLACEMENT PROCEDURES FOR REMOTE CONTROL BOX COMPONENTS

9-5. General

Before proceeding to the replacement procedures listed in paragraph 9-6, prepare the remote control box for parts replacement by performing the following step-by-step procedure:

- a. Disconnect interconnecting cable from control box to remote control box at the remote control box.
- *b.* Remove four mounting bolts and washers holding the remote control box to vehicle.

- c. Remove six screws and washers holding mounting cover to the remote control box.
- *d.* Remove mounting plate and gasket from remote control box to expose the interior of the remote control box.

NOTE

When removing wires be sure to note wire location and tag wires to aid replacement. Before assembling remote control box, thoroughly clean gasket surfaces on mounting plate and remote control box. Use new gasket if available.

Refer to figure 9-5 for location of parts in the remote control box. Refer to figure 9-6 for specific parts called out in paragraph 9-6.

9-6. Removal and Replacement of Parts in Remote Control Box

- a. Removing and Replacing Jack J1 (figure 9-6). To remove jack J1 (3) from the remote control box (l), proceed as follows:
- (1) Unsolder and remove wires from rear of jack J1 (3).
- (2) Unscrew and remove the four mounting screws (4), washers (20), and lockwashers (21) holding J1 (3) to remote control box (1).
- (3) Remove jack (3) and gasket (5) from housing by pushing on rear of jack.
- (4) To replace part, perform removal procedure in reverse order.

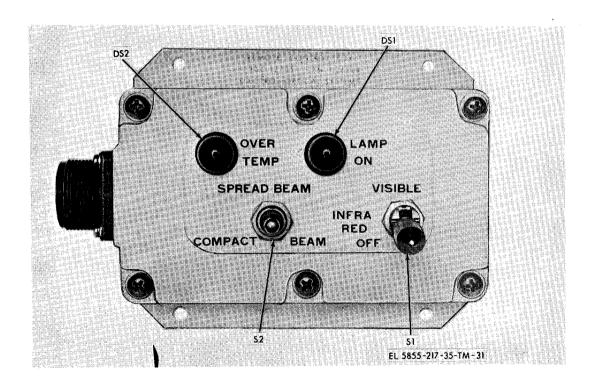
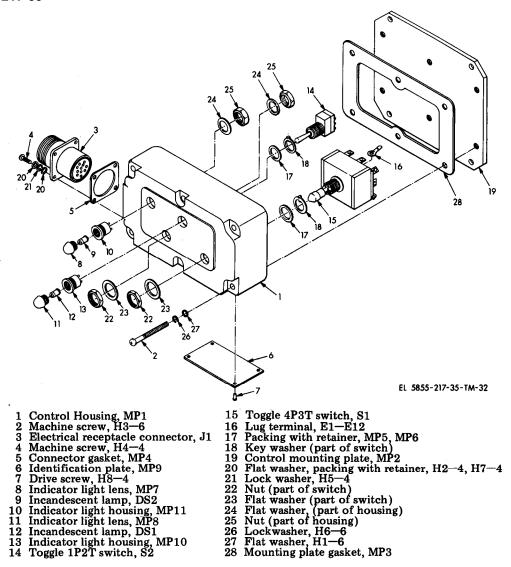


Figure 9-5. Remote control box, exterior view.



NOTE

Partial reference designations are shown. For complete designation, prefix each item (reference designation) with assembly designation 3.

Figure 9-6. Remote control box, exploded view.

- b. Removing and replacing Visible/InPared/Off Switch S1 (figure 9-6). To remove switch S1 (14) from the remote control box, proceed as follows:
- (1) Unscrew terminal screws on back of switch enough to allow removal of forked wire terminals and remove wires.
- (2) With toggle in the center position, use a deep socket to unscrew and remove switch mounting nut (22) and star washer (23).
- (3) Push toggle through mounting hole in housing and remove switch (14) washer (17) and key washer (18) from rear of housing (1).
- (4) To replace part, perform removal procedure in reverse order.
- c. Removing and Replacing Spread Beam/Compact Beam Switch S2 (figure 9-6). To remove beam switch S2 (15) from the remote control box, proceed as follows:

- (1) Unsolder and remove wires on back of switch.
- (2) With toggle at the center position use a deep socket to unscrew and remove switch mounting nut (22) and star washer (23).
- (3) Push toggle through mounting hole in housing (1) and remove switch (15) washer (17) and keying washer (18) from back of housing.
- (4) To replace part, perform removal procedure in reverse order.
- d. Removing and Replacing OVER TEMP or LAMP ON Indicators (figure 9-6). To remove OVER TEMP or LAMP ON indicator (9), (12) from the remote control box, proceed as follows:
- (1) Unscrew end remove colored indicator light lens (8, 11) and bulb (9, 12) from front of control box housing.

- (2) Unsolder and remove wires on back of indicator light housings (10, 13).
- (3) Unscrew and remove mounting nut (25) and washer (24).
- (4) Push on rear of indicator light housing until housing drops out front of remote control box housing.
- (5) To replace part, perform removal procedure in reverse order.
- e. Removing and Replacing Indicator Bulb (figure 9-6).
- (1) To remove, pull bulbs (9, 12) straight out of colored indicator light lens (8, 11) with fingernail or suitable tool.
- (2) To replace part, insert bulb in colored indicator light lens until bulb snaps in place.

Section IV. REPLACEMENT PROCEDURES FOR SEARCHLIGHT COMPONENTS

9-7. General

Before proceeding to the replacement procedures listed in paragraph 9-8, prepare the searchlight assembly by removing the searchlight housing.

- a. Removing Searchlight Housing (figure 9-7)
- (1) Disconnect the interconnecting cable to connector 1A2J1 (16).
- (2) Short circuit connector 1A2J1 (16) pins T and X.
- (3) Release the seven latches (25) holding the heat exchanger (18) to the outer case (l).
- (4) Remove the blower motor wires connected to TB3 terminals 1A and 2A on heat exchanger (18).
- (5) Remove the wires connected to the ballast resistor terminal.
- (6) Remove the nut (13) lockwasher (14) and washer (15) holding connect 1A2J1 (16).
- (7) Push the connector (16) and gasket (17) back inside the outer case.

- (8) Stand the searchlight on its back with the lens facing up.
- (9) Unscrew the rear mounting bolt (3) and washer (4) located by each handle.
- (10) Unscrew and remove the two mounting bolts (5) and washers (6, 7, 8) on the bottom outside edges of the case directly behind the searchlight lens.
- (11) The outer case is now free from the searchlight frame. Pull the outer case directly up while looking through the searchlight lens for any unusual obstructions.
- (12) As the rear of the outer case approaches the reflector, the outer case must be tilted forward toward the bottom of the searchlight.
- (13) Store the outer case in a safe place when the outer case is free of the searchlight frame,

Note: Refer to the last item in paragraph 9-8 for searchlight housing replacement procedure.

See figure 9-8 for location of parts in searchlight.

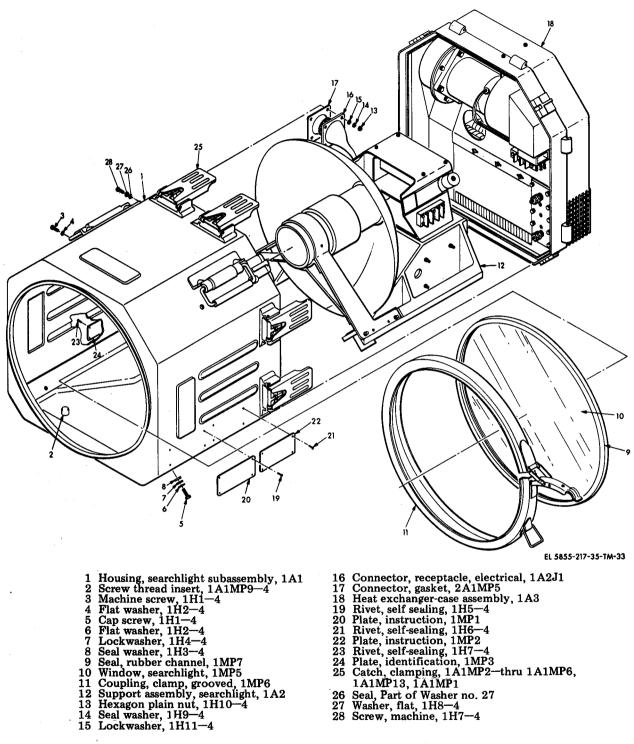


Figure 9-7. Searchlight set, IR (control box).

9-8. Removal and Replacement of Parts in Searchlight

WARNING

Before attempting to remove or replace the xenon lamp (5), wear a safety mask, leather gloves and leather jacket.

- a. Removing Xenon Lamp (figure 9-8). To remove the xenon lamp (5) from the searchlight, proceed as follows:
- (1) Unscrew and remove four screws (1) and washers (2, 3) in front lamp holder assembly.
- (2) Remove front lamp support clip (4) by pulling away from searchlight.
- (3) Use the xenon lamp holder as a tool and insert the holder through the hole in the biped assembly.
- (4) Slide the xenon lamp holder over the xenon lamp (5) (figure 9-8).
- (5) Unscrew the xenon lamp (5) by turning the lamp holder in a counterclockwise direction.
- (6) Remove the xenon lamp (5) by pulling out through the biped (7) center piece.
 - (7) Store the xenon lamp in a safe place.
- b. Replacing Xenon Lamp (figure 9-8). To replace the xenon lamp (5) in the searchlight, proceed as follows:
- (1) Use the xenon lamp holder as a tool to install the new lamp.
- (2) Slide the xenon lamp (5) through the bipod assembly (7) into the lamp housing.
- (3) Thread the xenon lamp into the cradle assembly (41) by turning lamp in a clockwise direction.
 - (4) Remove lamp holder from xenon lamp.
- (5) Slide the lamp support clip (4) over xenon lamp (5).
- (6) Align screw mounting holes in lamp support clip with holes in biped assembly (7).

- (7) Insert mounting screws (1) and washers (2, 3) and tighten. Be sure to replace wire terminal underneath mounting screw.
- c. Removing Switching Diode 1A2 CR1 (figure 9-8). To remove switching diode CR1 (96) from the searchlight, proceed as follows:
- (1) Remove terminals wires from diode by removing attaching parts (97, 98, 99, 100).
- (2) Unscrew mounting nut (94) and washer (95) and remove wires.

(3) Remove diode CR1 (96)

- *d. Replacing Switching Diode CR1 (figure 9-8).* To replace switching diode CR1 (96) in the searchlight, proceed as follows:
- (1) Insert the threaded terminal end of the diode (96) through the mounting hole provided on the searchlight support (92).
- (2) Sequentially place the following items over the threaded terminal stud on the diode:

Quant	ity	Item
1.		Flat washer (part of diode)
1 .		Terminal lug, medium size
1 .		Terminal lug, small size
1	Locky	washer (103)
1 .	Moun	ting nut (102)

- (3) Tighten mounting nut to assure a good rigid mechanical and electrical fit.
- (4) Install terminal wires to diode and install parts (97, 98, 99, 100).
- e. Removing Infrared Filter Motor Limit Switches S1 and S2 (figure 9-8). To remove switches S1 and S2 (140) from the searchlight, proceed as follows:
- (1) Disconnect and tag wires from switches (140).
- (2) Remove mounting bolts (141) holding switch bracket (139) to bracket assembly (137).
- (3) Remove switches and switch bracket from bracket assembly (137).

1	Screw, machine, H25-4	89	Washer, lock, H66-2
2	Washer, lock, H67-4	90	Washer, flat, H35-2
4	Washer, flat, H36—4 Lamp support holder assembly, A12	91	Screw thread insert, A9MP3-4 Searchlight support, A9
5	Xenon lamp, DS1	93	Screw thread insert, A9MP1-2
6	Spring pin, MP44	94	Nut (part of diode)
8	Lamp support bipod assembly, A10 Socket head ap screw, H28-4	96 96	Washer (part of diode) Diode semiconductor device, CR1
9	Loop clamp, MP40, MP41	91	Screw, machine, fish-1
10	Washer, lock and first, H85-4, H44-4	98	Nut, plain, hexagon, H91—1
11	Bipod plate spacer, MP16, MP17 Spring pin, MP45		Washer, lock, H88—1 Washer, flat, H47—1
13	Screw, machine H16-1	101	Instruction marker, MP4
14	Loopelamp, MP24	102	Hexagon extended washer, nut, H105-3 Washer H107-3
15 16	Washer, flat, H39-1 Washer, lock, H72-1	103 104	Washer H107—3 Booster-starter assembly, E4
17	Clinch self-locking nut A10MP2	105	Instruction marker, MP26
18	Thermostatic switch, S3	106	Insulated feedthrough terminal, E2, E1 Hexagon plain nut, H92-2, H93-2
50 18	Thermostatic switch, S4 Filter retaining ring, A10MP1	107	Spring tension clip, MP51, MP52
21	Screw, socket lead cap, H26-6	109	Paper dielectric fixed capacitor, C1
22	Washer, lock H61-6	110	Screw, socket head cap, H1-1, H2-1
23 24	Washer, flat, H96—6 Screw, socket head cap, A11H1—8	111	Washer, flat, H97-1, H98-1 Limiter bracket, MP18, MP19
25	Reflector retaining ring, A11MP3	113	Rubber grommet, MP54
26	Reflector, AllMPl	114	Socket head cap screw, H24-4
27	Light reflector adapter, A11MP2 Infrared filter subsequently, A8A1	115 116	Screw, machine, H7—1, H6—1 Washer, lock, H69—1, H68—1
29	Infrared filter subassembly, A8A1 Infrared filter, A8A1FL1	117	Washer, flat, A2H38-1, A2H37-1
30	Preformed packing, A8A1MP1 through A8A1MP6	118	Cartridge fuse, FJ, F2
	Filter sleeve, A8MP1 Infrared filter assembly, A8	119 120	Screw, machine, H10-1 through H13-1 Washer, lock, H75-1 through H78-1
33	Screw, machine, H15-4	121	Flat washer, H5 1-1 through H54-1
34	Washer, lock, H71-4	122	Fuse holder, XF1, XF2, MP31, MP32
35 36	Washer, flat, H49-4	123	Machine screw H9-1
37	Lamp air inlet, MP22 Gasket, MP23		Lockwasher, H83-1 Flat washer, A2H59-1
38	Adapter retainer, H1-1	126	Loop clamp, MP33, MP34
39	Adapter bearing block, MP1	127	Machine screw, lock and flat washer, H8-1, H82-1,
41	Nylon locking pellet, MP2 Lamp holder adapter assembly, A2	128	A2H58—1 Machine screw, H22—4
42	Lamp cradle assembly, A1	129	Flat washer, H60-12
43	Screw, machine, H14-2 Washer, lock, H70-2		Hexagon plain nut, H94-8
45	Washer, flat, H48-2	131 132	Lockwasher, H89—8 Flat washer, H60—12
46	Lamp housing assembly, A7	133	Machine screw, H17-2, H18-2 Hex plain nut, H94-8
47 48	Machine screw, H14-2 Screw thread insert, A7MP2-10	134	Hex plain nut, H94—8
49	Screw, socket head cap, MP48	136	Lockwasher, H89—8 Flat washer, H60—12
50	High voltage bushing insulator, MP20	137	Resilient mount bracket assembly, A2A3
	Spur gear, MP14 Spring pin, H4—1	138 139	Nut (part of limit switci) no number Limit switch bracket, M-6
53	Screw, socket head cap, H103-1, H104-1 Washer, lock, H62-1, H63-1	140	Limit switch, S1, S2
54 55	Washer, lock, H62—1, H63—1 Sleeve spacer, MP42, MP43	141	Socket head cap screw, H33-2
56	Screw, machine, H100-4	142 143	Center hole Hex plain nut, H94—8
57	Filter motor bracket, MP15		Lockwasher, H89-8
58 50	Motor unit, A13	145	Flat washer, H60—12
60	Nut, bax, plain, H102-4 Washer, lock, H101-4	146 147	Solid rivet, A3H1—2, A3H2—2 Plate self-locking nut, A3MP14
61	Washer, flat, H64-4	148	Resilient mount, MP10 through MP13
62 63	Screw, machine, H30—1 Washer, flat, H45—2	149	Self-locking nut A3MP13
64	Laminated shim, MP21	150 151	Machine screw, H23—4 Hex plain nut, H90—4
65	Focus motor pate spacer, MP2	152	Lockwasher, H84-4
67	Screw, shoulder, H5-4 Searchlight focus assembly, A4	153	Flat washer, H43-4
6 8	Screw, socket head cap, H27—4	154	Lamp igniter, E3 Instruction marker, MP27
69	Washer, flat, H41-4	156	Screw thread insert, A3MP2—7, A3MP9—4
70 71	Washer, lock, H82—4 Spring pin. H106—1	157 159	Rubber grommet, MP35 thru MP39 Machine screw, H19-1
72	gid connecting link, MP5	159	Lockwasher, H81-1
73	Rod end plain bearing, A6MP1	160	Flat washer, H57-1
74 75	Spring pin, A6MP3 Deflector shaft threaded pin, A6MP1	161 162	Loop lamp, MP53 Machine screw, H21-4
76	Nut, plain, hexagon, MP49	163	Lockwasher, H74-4
77	Rod end plain bearing, MP30	164	Flat washer, H40—4
79	Screw, socket head cap, H32-1 Washer, lock, H87-1	165 166	Terminal board, TB1 Identification marker, MP29
80	Washer, flat, H46—1	167	Machine screw, H20-4
81	Screw, socket head cap, H29-1	168	Lockwasher, H73-4
83	Washer, flat, H34-1 Deflection bracket plate spacer, MP7	169 170	Flat washer, H50-4 Terminal hoard, TB2
84	Retaining ring, H99—1	171	Terminal board, TB2 Identification marker, MP28
85	Deflector assembly (welded), MP3 Screw, machine, A5I1—1	$\frac{172}{172}$	Cartridge fuse, F1, F2 (Spares) Machine screw_H10-1 thruH3-1
87	Connecting ink bearing block assembly, A5	174	Lockwasher, H75-1 thru H78-1
88	Screw, socket head cap, H3-2	175	Flat washer, H51-1 thru H54-1
9_1	4	176	Fuse holder, XF1, XF2, MP31, MP32

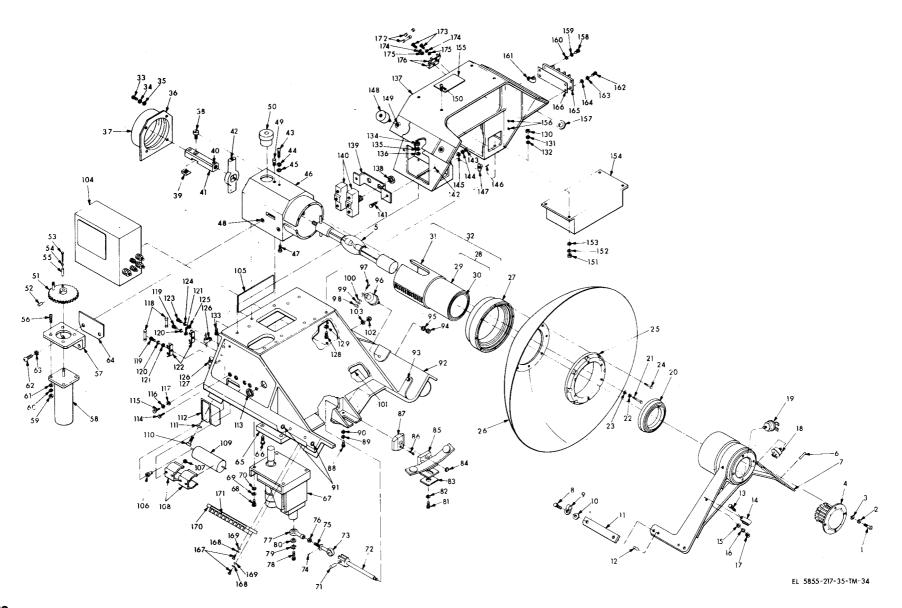


Figure 9-8. Searchlight assembly, exploded view.

- (4) Remove mounting nuts (138) from switch collar.
- (5) Remove switches (140) from switch bracket (139).
- f. Replacing Infrared Filter Motor Limit Switches S1 and S2 (figure 9-8). To replace switches S1 and S2 from the searchlight, proceed as follows:
- (1) Thread one mounting nut (138) threequarters the way down each switch collar (140).
- (2) Position the limit switches (140) on the switch bracket (139) so that the normally closed terminal will be pointing down when the switch bracket is mounted to the frame assembly.
- (3) Thread the additional mounting nut on to each switch collar. Do not tighten the nuts more than finger tight.
- (4) Perform adjustment of filter assembly using procedure in paragraph 8-29.
- g. Removing Infrared Filter Motor (58) (figure 9-8). To remove IR filter motor (58) from the searchlight, proceed as follows:
- (1) Remove IR filter motor limit switches S1 and S2 by performing removal procedure described in paragraph 9-8e.
- (2) Remove and tag wires from bottom of filter motor (58).
- (3) Remove the two mounting screws (62) and washer (63) holding the bracket (57) to the lamp housing assembly (46) by passing a wrench through the access hole.
- (4) Remove the filter motor (58), filter motor bracket (57) and gasket (64) through the access hole.
- *h.* Replacing Infrared Filter Motor (58) (figure 9-8). To replace IR filter motor (58) in the searchlight, proceed as follows:
- (1) Slide the infrared filter assembly (32) out of the reflector until the filter contacts the biped assembly.
 - (2) Rotate the filter motor gear until the two

- vertical arms on the gear are located next to the lamp housing assembly (46).
- (3) Rotate the gear about a quarter turn so that the forward vertical arm will be in a position to contact the push button on the forward switch (140).
- (4) Engage the gear (51) on the filter motor (58) to the gear teeth on the side of the infrared filter (29).
- (5) Align the holes in the motor mounting plate (57) to the holes in the lamp housing (46).
- (6) Insert the motor mounting bolts (62) and washers (63) and tighten.
- (7) Perform infrared filter adjustment procedure in accordance with paragraph 8–29.
- i. Removing Thermal Switches S3 and S4 (figure 9—8). To remove thermal switches S3 (18) and S4 (19) from the searchlight, proceed as follows:

The thermal switches are located inside the biped assembly (7).

- (1) Remove xenon lamp by performing removal procedure described in paragraph 9-8a.
- (2) Unsolder and tag the wires to the thermal switches.
- (3) Unscrew the thermal switch which is stud mounted to the inside of the biped assembly.
- (4) Remove the thermal switch from the biped assembly (7).
- *j. Replacing Thermal Switches S3 and S4 (figure 9-8).* To replace thermal switches S3 (18) and S4 (19) in the searchlight proceed, as follows:

NOTE

Replacement cannot be made with xenon lamp installed.

(1) Face the front of the searchlight and screw the mounting stud of thermal switch S3 (18) into the mounting hole on the right side of the biped assembly.

- (2) Screw the mounting stud of thermal switch S4 (19) into the mounting hole on the left side of the biped assembly.
- (3) Using an ohmmeter, measure from the following pins on 1J1 to the wires inside the biped assembly. As each wire is identified, connect the wire to the proper terminal of S3 or S4 as shown below.

J1-N to S4-1 J1-R to S3-1

J1-W to S4-2 J1-V to S3-2

- (4) Solder the wires to S3 and S4.
- (5) Darken any bright surfaces with opaque ceramic paint to prevent light reflections from occurring.
- *k. Removing Biped (figure 9-8).* To remove the biped (7) from the searchlight, proceed as follows:
- (1) Remove xenon lamp (5) by performing removal procedure described in paragraph 9-8, a.
 - (2) Remove cable clamps.
- (3) Remove screws and washers (8 and 10) and spacer plate (11).
- (4) Pry the biped assembly (7) off the alignment pins on one side and then the other side of the searchlight support (92).
- (5) Remove the biped assembly (7) from the searchlight support (92).
- *I. Replacing Biped (figure 9-8).* To replace the biped (7) in the searchlight, proceed as follows:
- (1) Position the biped assembly (7) to align one leg to the alignment pins on the searchlight support (92).
- (2) Seat the biped assembly legs on the alignment pins located on the searchlight support (92).
- (3) Place spacer plate (11) on the biped assembly (7).
- (4) Replace cable and secure with cable clamps.

- (5) Tighten all mounting bolts.
- (6) Peform infrared filter adjustment procedure in accordance with paragraph 8—29.
- *m. Removing Reflector (figure 9-8).* To remove the reflector (26) from the searchlight, proceed as follows:

CAUTION

Do not touch shiny surface of reflector. Dulling of reflecting surface by dirt, grease, or finger acids will reduce searchlight output drastically.

- (1) Remove xenon lamp (5) by performing removal procedure described in paragraph 9-8, a.
- (2) Remove biped assembly (7) by performing removal procedure described in paragraph 9-8, k.
- (3) Electrically drive the infrared filter (29) back until it is flush with the reflector retaining ring (25) by applying +24V dc to TB2-6 and TB2-7.
 - (4) Remove socket-headed cap screws (24).
- (5) Remove the mirror reflector (26) by very gently twisting and pulling until the reflector comes free. Be careful not to apply excessive pressure to mirror.
- *n. Replacing Reflector (figure 9-8).* To replace the reflector (26) in the searchlight, proceed as follows:
- (1) Position the reflector over the infrared filter (29).
- (2) Align the screw holes in the reflector with the screw holes in lamp housing assembly (46).
- (3) Insert the socket head cap screw (24) into the screw holes.
 - (4) Tighten the screws.

CAUTION

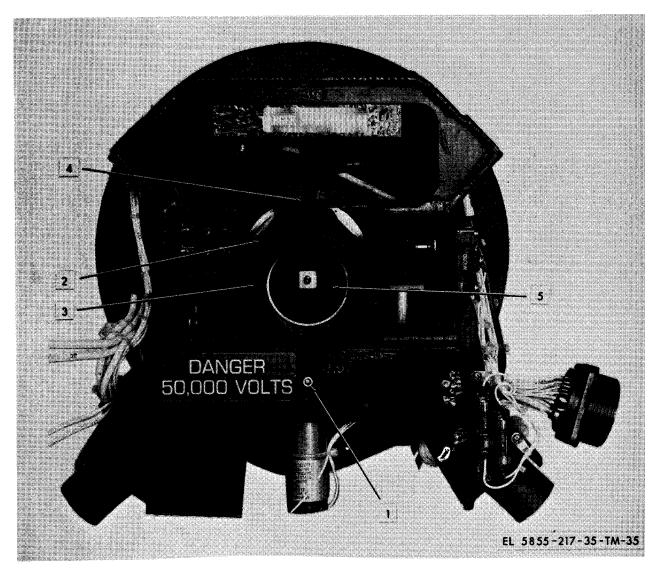
Do not touch the infrared filter with bare hands. Finger acids will cause light leakage through filter. Wear soft cotton or linen gloves during removal and replacement procedures.

- o. Removing Infrared Filter (figure 9-8). To remove the infrared filter (32) from the searchlight, proceed as follows.
- (1) Remove xenon lamp (5) by performing removal procedure described in paragraph 9-8a.
- (2) Remove biped assembly (7) by performing removal procedure described in paragraph 9-8k.
- (3) Remove reflector (26) by performing procedure in paragraph 9-8, m.
- (4) Remove infrared filter motor (58) by performing procedure in paragraph 9-8g.
- (5) Pull the infrared filter (29) out through the lamp housing (46) toward the front of the searchlight.
 - (6) Store the infrared filter in a safe place.
- p. Replacing Infrared Filter (figure 9-8). To replace infrared filter (29), follow removal procedure in reverse order. Adjust filter and filter motor by performing procedure in paragraph 8-29.

Before turning off power to searchlight, place the searchlight in the COMPACT beam mode.

- q. Removing Reflector Drive Mechanism Including Limit Switch S5 and Focus Motor (67). To remove the reflector drive mechanism from the searchlight, proceed as follows:
- (1) Remove four mounting screws (2) (figure 9-9).
 - (2) Remove rear cover plate (3) (figure 9-9).
- (3) Place the searchlight assembly on its back with the reflector pointing up.
 - (4) Remove retaining screw (4) (figure 9-10).
- (5) Remove wires from focus motor terminals (6), (figure 9-10).
- (6) Remove wires from focus motor terminals (7), (figure 9-10).
- (7) Tag and unsolder the wires from wafer switch S5.

- (8) Remove and tag wires on focus motor.
- (9) Remove mounting screws (3), (5), (8) and (9) (figures 9–10).
- (10) Place the searchlight frame back to its normal position as shown in figure 9—9.
- (11) Remove the socket head cap screw (49) (figure 9–8) directly ahead of high voltage bushing insulator (50) (figure 9–8). Removal of the socket head cap screw provides an access hole for a screw driver.
- (12) Pass a narrow blade screw driver through the access hole in the top of the lamp housing (46) (figure 9-8). Unscrew the retaining screw (38) holding the eccentric to the dovetail block (39) (figure 9-8).
- (13) Remove the focus motor (5) (figure 9-9) and wafer switch S5 (figure 9-10) from the searchlight frame.
- (14) To remove wafer switch S5, loosen setscrew (2) (figure 9-11) on deflector eccentric, and drive out spring pin (3) (figure 9-11).
- (15) Remove deflector eccentric (1) (figure 9-11) from deflection shaft (9) (figure 9-11).
- (16) Remove the two wafer switch mounting screws on S5 (6) (figure 9-11).
- (17) Remove wafer switch S5 (4) (figure 9-11).
 - (18) Remove and tag wires on limit switch.
- r. Replacing Reflector Drive Mechanism Including Wafer Switch S5 and Focus Motor B1 (figure 9-11). To replace the reflector drive mechanism in the searchlight, proceed as follows:
- (1) Place wafer switch (4) over deflection shaft (9).
- (2) Insert two sleeve spacers (5) under wafer switch wafer (4) and install mounting screws (6) through sleeve spacers.
- (3) Place deflector eccentric (1) over deflection shaft (9).

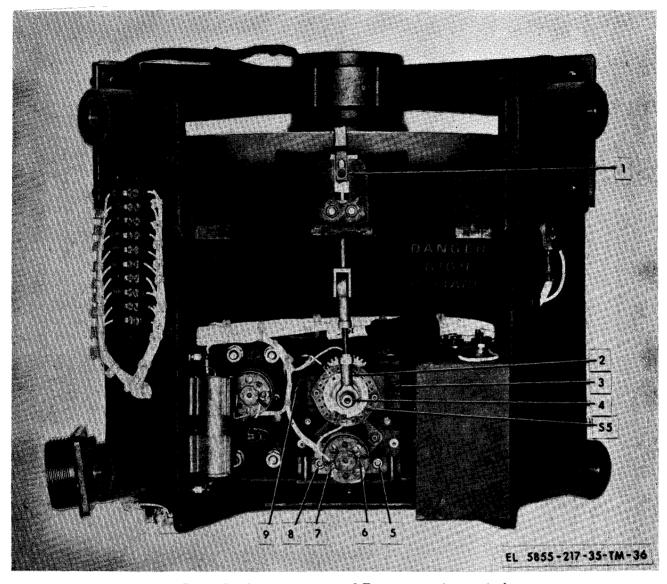


- 1 Focus adjustment setscrew 2 Rear cover plate mounting screws 3 Rear cover plate
- 4 High voltage busing insulator 5 Searchlight focus motor assembly

Figure 9-9. Searchlight assembly, case removed.

- (4) Insert setscrew (2) (figure 9-11) through deflector eccentric (1) and deflection shaft (9).
- (5) Refer to figure 9-10 and orient motor and switch as shown.
- (6) Insert the motor, mounting plate, and wafer switch into the searchlight frame taking care to align focus cam control with the hole in the bottom of the lamp housing (46) (figure 9-8).
- (7) Align focus cam control with dovetail block (38) (figure 9-8).
 - (8) Align the mounting holes (3), (5), (8) and

- (9) (figure 9-10) with the holes in the searchlight frame.
- (9) Insert mounting screws through holes in the mounting plate and tighten.
- (10) Insert the retaining screw into top of dovetail block and into cam control and tighten.
- (11) Align mounting holes in rear cover plate (3) (figure 9-9) as shown in figure.
- (12) Insert mounting bolts (2) (figure 9-9) and tighten.

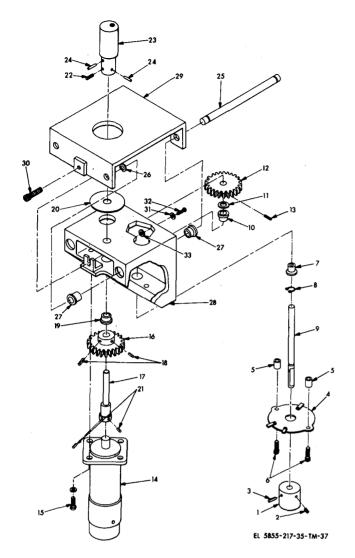


- 1 Deflection brac 2 Deflection rod Deflection bracket cap screw
- 3 Mounting screw 4 Retailing screw 5 Mounting screw
- 6 Focus motor wire terminal
- Focus motor wire terminal
- 8 Mounting screw 9 Mounting screw

Figure 9-10. Searchlight assembly.

- (13) Connect and solder to the limit switch terminals the wires that were removed during disassembly.
- (14) Connect the wires to the terminals on the focus motor (6) and (7) (figure 9-10).
- (15) Perform focus motor assembly adjustment procedure in accordance with paragraph 8-30.
 - s. Removing Booster-Starter Assembly (figure

- 9-8). To remove the booster-starter assembly from the searchlight, proceed as follows:
- (1) Remove reflector drive mechanism following procedure in paragraph 9-8 q.
- (2) On booster-starter assembly (104) (figure 9-8) remove and tag connecting wires.
- (3) Unscrew and remove mounting nuts and washers (102, and 103).



- Deflector eccentric, A4MP1
- Setscrew, A4HI1-
- Spring pin, A4H7
- Rotary switch, A4S5 Sleeve spacer, A4H-2
- Socket head cap-screw, A4H12-2
- Sleeve bearing, A4MP1 Retaining ring, A4H6
- Deflection shaft, A4MP8
- 10 Sleeve bearing A4MP12
- Shim washer, A4MP19 Spur gear, A4MP10
- Spring pin, A4H9-Motor unit, A4A3
- 15 Socket head cap screw and flat washer, A4H13-4, A4H1-1 A4H1—1
- Spur gear, A4MP7
- Motor extension shaft, A4MP4
- Setscrews, H14-2
- Sleeve bearing, A4MP13 Focus motor shim, A4MP3
- Spring pins, A4H10—1, A4H8—1 Setscrew, A4H14—2
- Focus eccentric, A4MP2 Spring pin, A4H16-2 23
- 25 Focus motor guide shaft, A4MP5, A4MP6
 26 Retaining ring, A4HH—2, A4H5—2
 27 Sleeve bearing, A4MP14 thru A4MP17
 28 Focus housing assembly, A4A2
 29 Double angle bracket assembly, A4A1

- Adjusting screw, A4MP9 Flat washer, A4H3-1 Screw, A4H15-1 30

- 33 Shim, A4MP18

Partial reference designations are shown. For complete designation, prefix each item (reference designation) with assembly designation 1A2.

Figure 9-11. Focus assembly, searchlight.

- (4) Pull booster-starter assembly away from searchlight support.
- t. Replacing Booster-Starter Assembly (figure 9-8.). To replace the booster-starter assembly, proceed as follows:
- (1) Orient booster-starter (104) so that threaded mounting studs pass through mounting holes in machining frame.
- (2) Install and tighten mounting nuts (102) and washers (103).
- (3) Install reflector drive mechanism following procedure in paragraph 9-8n.
 - (4) Install wires on their proper terminals.

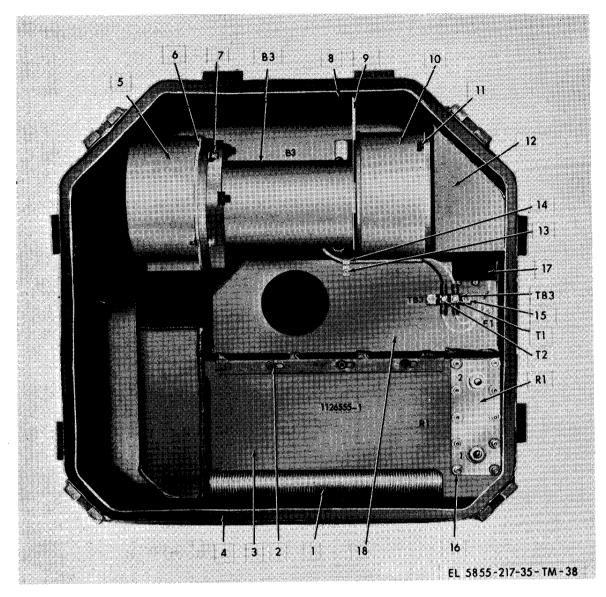
- u. Removing Igniter Unit (figure 9-8). To remove igniter unit from the searchlight, proceed as follows:
 - (1) Remove and tag connecting wires.
- (2) Unscrew and remove mounting nuts (151), washers (153, 152) and screw (150).
 - (3) Remove igniter unit (154).
- v. Replacing Igniter Unit (figure 9-8). To replace igniter unit in the searchlight, proceed as follows:
- (1) Mount igniter unit (154) to bracket assembly (137).

- (2) Install and tighten mounting nuts, (151) washers (152, 153) and screw (150).
 - (3) Install wires on their proper terminals.
- *w. Replacing Searchlight Housing (figure 9-7).* To replace the searchlight housing, proceed as follows:
- (1) Mount the rear resilient mounts (148) on the searchlight bracket assembly (137) (figure 9-8).
- (2) Place the searchlight frame on its back with the reflector facing up.
- (3) Lower searchlight housing (1) over the searchlight frame assembly (12, figure 9-7).
- (4) Observe the movement of housing through the searchlight window. Look for any obstructions which might stop housing from being lowered over frame assembly.
- (5) Place housing and frame assembly in its normal position.
- (6) Fit the connector 1A2J1 (16) and gasket (17) into the connector mounting hole.
- (7) Align the mounting holes in the connector with the mounting holes in housing.
- (8) Insert the mounting screw (28) and washer (27) into holes and place flat washer (15), lockwasher (14), and nut (13) on each bolt. Tighten each nut to the mounting bolt.
- (9) Insert the two mounting bolts (3) and washers (4) below lifting handles. Tighten the mounting bolts.
- (10) Insert the two mounting bolts (5, 6,7, 8) in the front bottom outer edges of the searchlight housing. Then, tighten the mounting bolts.

9-9. Removal and Replacement of Parts in Heat Exchanger

- a. Removing Ballast Resistor (figures 9-12 and 9-13). To remove the ballast resistor (R1) from the heat exchanger, proceed as follows:
 - (1) Disconnect wires leading from searchlight

- housing to ballast resistor assembly (R1) (figure 9-12) and tag.
- (2) Remove ten socket head screws (45), and washers (4) (figure 9-13) and lift ballast resistor assembly (R1) straight up and out of the rear cover assembly housing.
- (3) Remove ballast resistor assembly gasket (42) (figure 9-13).
- (4) To remove resistance element (40) (figure 9-13) from ballast resistor mounting board (43) (figure 9-13) remove socket head cap screws (51), washers (38), and hex head nuts (37).
- b. Replacing Ballast Resistor (R1) (figures 9-12 and 9-13). To replace
- (1) Position resistance element (40) on mounting board (43) (figure 9-13).
- (2) Secure resistance element (40) (figure 9-13) with socket head cap screws (51), washers (38) and three hex head nuts (37).
- (3) Place gasket (42) (figure 9-13) onto face of heat exchanger and align with screw holes. Insure that gasket and facing area is clean of dirt and other foreign elements.
- (4) Carefully place ballast resistor assembly (R1) (figure 9–12) into position and align with the ten mounting screw holes. Use threaded rod to hold backup plate in place.
- (5) For snug fit, evenly tighten all ten socket head screws (45) (figure 9-13) around the ballast resistor assembly mounting board (42) (figure 9-13).
- c. Removing Plenum Chamber (figure 9-13). To remove the plenum chamber (11) from the heat exchanger, proceed as follows:
- (1) Remove three socket head cap screws (8) and washers (7) and one socket head cap screw (6) washer (5) and clamps (4) holding plenum chamber (11) in place.
- (2) Carefully lift plenum chamber straight up from and out of the rear cover assembly.
 - d. Replacing Plenum Chamber (figure 9-13). To



- 1 Heat sink tube 2 Socket head cap screw and washer 3 Heat exchanger assembly
- Rear cover gasket
- 5 Blower housing 6 Motor mounting plate and gasket
- 7 Socket head cap screw; washer and sealing washer 8 Blower motor mounting bracket bolt 9 Blower motor mounting bracket

- 10 Blower wheel shroud assembly
 11 Socket head cap screw and washer
 12 Plenum assembly
 13 Cable clamp screw and washer
 14 Cable clamp
 15 Terminal board mounting screw and washer
 16 Ballact resistor assembly mounting screw
- 16 Ballast resistor assembly mounting screw
- 17 Filter assembly 18 Plenum chamber

Figure 9-12. Heat exchanger.

replace the plenum chamber (11) on the heat exchanger, proceed as follows:

- (1) Carefully position plenum chamber (11) into heat exchanger.
- (2) Replace three socket head cap screws (8), and washers (7) and tighten.
- (3) Replace one socket head cap screw (6) washer (5) and clamps (4) and tighten.
- e. Removing Blower Motor (figure 9-13). To remove the blower motor (23) from the heat exchanger, proceed as follows:
 - (1) Remove plenum chamber (11) (para

- 9-9c) and blower motor wires terminal board (1).
- (2) Remove four socket head screws (52) and washers (53) from blower motor B3 flange.
 - (3) Remove cap head screws (30) and (34).
- (4) Remove cap head screw (20) and washer (19).
 - (5) Remove blower motor.
- f. Replacing Blower Motor (figure 9-13). To replace blower motor (23) on heat exchanger, proceed as follows:
- (1) Install blower motor (23) into rear cover (31).
- (2) Align shim (26) with inside holes on rear cover (31).
- (3) Install cap head screws (30) through shim (23) in blower motor (23) and tighten.
- (4) Install cap head screw (34) into blower shroud assembly (11, figure 9-14).
- (5) Install cap head screws (20) and washers (19) through shroud and into rear cover (31) and tighten.
- (6) Install cap head screw (52) and washers (53) into blower motor flange and tighten.
- (7) Install blower motor wires to terminal board (1).
- (8) Install plenum chamber as described in paragraph 9-10d.
- g. Removing Blower Wheel (Exposed) (figure 9-14). To remove blower wheel (1) from blower motor, proceed as follows:
- (1) Remove blower motor assembly from rear cover assembly (para 9-10e).
- (2) Insert wrench between vanes of exposed blower wheel (1) and loosen setscrew. Note that blower wheel hub end is flush with motor shaft end.

- (3) Slide exposed blower wheel off motor shaft.
- h. Replacing Blower Wheel (Exposed) (figure 9-14). To replace blower wheel (1) on blower motor, proceed as follows:

CAUTION

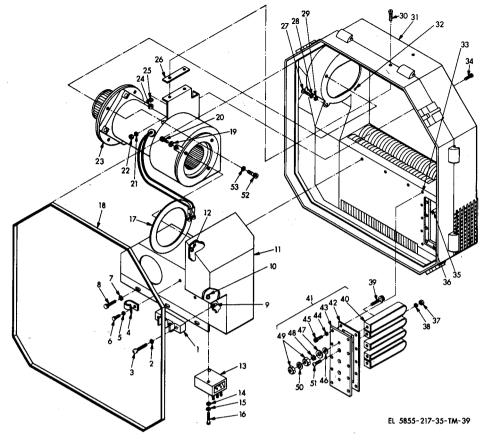
Insure that blower wheel does not touch any blower housing screw heads following installation.

- (1) Slide exposed blower wheel (1) onto motor shaft. Note that blower wheel hub end is flush with the motor shaft end.
- (2) Insert wrench between vanes of blower wheel and then tighten setscrew.
- i. Removing Blower Wheel (Covered) (figure 9-14). To remove blower wheel (14) from blower motor, proceed as follows:
- (1) Remove blower motor assembly from rear cover assembly (para 9-10e)
- (2) Insert hex wrench through rectangular aperture in blower housing and vanes of blower wheel and loosen setscrew.
 - (3) Slide blower wheel (14) off motor shaft.
- *j. Replacing Blower Wheel (Covered) (figure 9-14).* To replace blower wheel (14) on blower motor, proceed as follows:

CAUTION

Insure that blower wheel does not touch any blower housing screw heads following installation.

- (1) Slide blower wheel onto motor shaft.
- (2) Insert hex wrench through vanes of blower wheel and tighten setscrew.
- k. Removing Blower Motor (figure 9-14). Toremove blower 'housing (8) from shroud assembly, proceed as follows:
- (1) Remove blower motor assembly from rear cover assembly (para 9-10e).
 - (2) Note position of blower motor to mount-

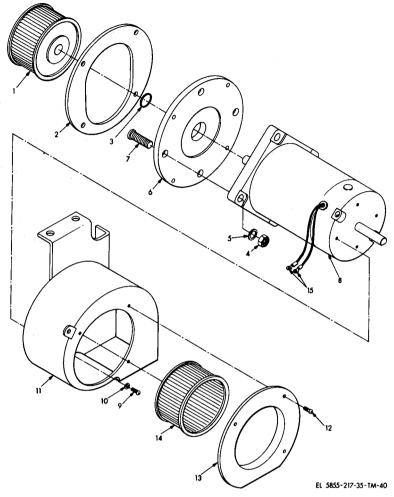


```
1 Terminal board, TB-3
2 Flat washer, H11-2
3 Machine screw, H3-2
4 Retaining strap, MP1
5 Flat washer, H12-1
6 Machine screw, H4-1
7 Flat washer, H14-3
8 Machine screw, H5-3
9 Clinch self-locking nut, \(\text{\chin}\) A3MP2, A3MP3
10 Blind rivet nut, \(\text{\chin}\) MP6-11
11 Heat exchanger plenum assembly, A3
12 Blind rivet nut, \(\text{\chin}\) MP5
13 Capacitor case assembly, C1
14 Flat washer, H14-2
15 Lockwasher, H14-2
16 Panhead screw, H16-2
17 Blower wheel shrouc gasket, MP3
18 Rubber special shapel section, MP4
19 Flat washer, H17-1
20 Socket head cap screw, H7-1
21 Flat washer, H21-2
22 Hexagon self-locking nut, H2-2
23 Centrifugal fan assembly, A4
24 Hexagon self-locking nut, H2-2
25 Flat washer, H20-2
26 Shim, MP2
27 Cap screw, H8-4

28 Lockwasher, H16-4
29 Flat washer, H10-4
29 Flat washer, H20-2, H21-2
30 Machine screw, H19-4
31 Heat exchanger ducting assembly, A2
31 Heat exchanger ducting assembly, A2
31 Heat exchanger ducting assembly, A2
32 Screw thread insert, \(\text{\chin}\) ample of A2)
34 Machine screw, H19-4
35 Clinch self-locking nut, A2MP5, A2MP6
36 Ballast resistor plate support (weldment part of A2)
37 Hexagon plain nut, A1-18-3
38 Lockwasher, A1H6-3
39 Socket head cap screw, A1H1-2
40 Resistance element, A1R1
41 Ballast resistor gasket, A1MP2
42 Hexagon self-locking nut, H2-2
43 Plate insulator, A1MP1
44 Seal and flat washer, H9-10, H13-10
45 Socket head cap screw, H6-10
46 Washer, A1H3-2
47 Flat washer, A1H5-2
49 Hexagon plain nut, A1-18-2
49 Hexagon plain nut, A1-18-2
50 Packing with retainer, A1H7-2
51 Machine screw, A1H9-4
52 Cap screw, H8-4
53 Flat washer, H20-2, H21-2
```

Partial reference designations are shown. For complete designation, prefix each item (reference designation) with assembly designation 1A3.

Figure 9-13. Heat exchanger, exploded view.



- Blower wheel, A4MP3 Blower wheel, A4MP3 Motor mounting plategasket, A4MP4 Preformed packing, A4MP6 Self-locking and, A4H3-4 Flat washer, A4H5-4 Motor mounting plate assembly, A4A1 Self-locking stud, A4A1MP2 thru A4A1MP5 Direct current motor, A4A2

- 10
- Machine screw, A4H2-4 Flat washer, A4H4-4 Blower wheel shroud assembly, A4MP5 $\frac{11}{12}$
 - Machine screw, A4H1-3
- Instrument retaining ring, A4MP1 Blower wheel, A4MP2 Lug terminal, A4E1, A4E2 $\overline{13}$ 14 15

Partial reference designations are shown. For complete designation, prefix each item (reference designation) with assembly designation 1A3.

Figure 9-14. Blower wheel shroud,

ing bracket, i.e., wires and brushes near top of assembly.

- (3) Remove blower wheel (para 9-10i).
- (4) Remove four screws (9, 10) inside shroud attaching it to motor (8).
- m. Replacing Blower Motor (figure 9-14). To replace blower housing (8) on shroud assembly, proceed as follows:
- (1) Note position of blower motor to mounting bracket, i.e., wires and brushes near top of assembly.

- (2) Replace four screws (9, 10) inside shroud attaching it and motor housing (8).
 - (3) Install blower wheel (para 9-10j).
- n. Removing Flange (figure 9-14). To remove flange (6) from motor (8) proceed as follows:
- (1) Remove blower motor assembly from rear cover assembly (para 9-10e).
 - (2) Remove blower wheel (para 9-10g).
- (3) Remove four nuts (4) and washers (5) from studs (7) on flange (6) and separate flange from motor (8).
- p. Replacing Flange (figure 9-14). To replace flange (6) on motor (8), proceed as follows:

- (1) Replace four nuts (4) and washers (5) on studs (7) on flange (6) and secure through motor flange (8).
- (2) Insure gasket (2) is in place and replace blower wheel (para 9-10j).

As an aid in troubleshooting, the overall schematic for the searchlight set, figure 9-13, and wiring diagrams for the searchlight, control box, and remote control box, figures 5-14 through 5-16, are included in this manual.

Figure 9-15. 1 kW Searchlight set schematic, (Located in back of manual.)

Figure 9-17. Control box wiring diagram, (Located in back of manual.)

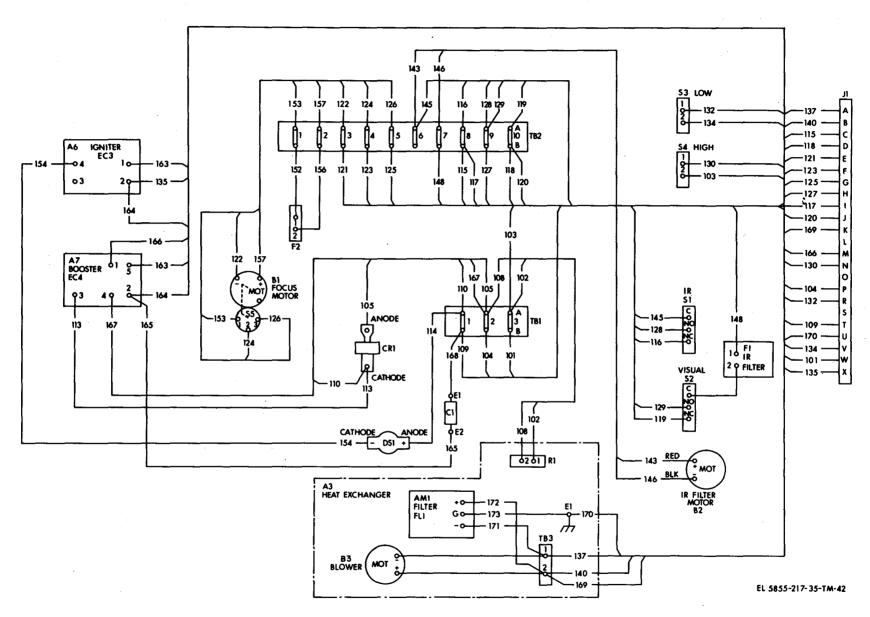


Figure 9-16. 1 kW Searchlight wiring diagram.

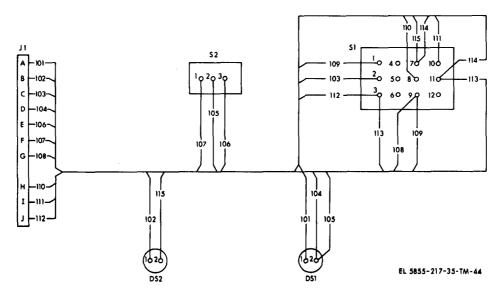


Figure 9-18. Remote control box wiring diagram.

CHAPTER 10

DEPOT INSPECTION STANDARDS

Section I. GENERAL

10-1. Applicability of Depot Inspection Standards

Searchlight Set, Infrared AN/VSS-3 must be tested thoroughly after rebuild or repair to assure that it meets adequate performance standards for return to stock and reissue. Use the tests described in this chapter to measure the performance of the repaired searchlight set. It is mandatory that equipment to be reissued, or returned to stock for reissue, meets all of the performance standards given in this chapter.

10-2. Applicable References

- a. Repair Standards. Applicable procedures of the Signal Corps depot performing this test and its general standards for repaired signal equipment.
- b. Technical Publications: The technical publications applicable to this equipment are listed below:

Equipment and Subject	Publication
Operator and Organizational Maintenance	TM 11-5855-217-12
Manual Searchlight Set, Infrared AN/VSS-3	
DS, GS, and Depot Maintenan Manual	ce TM 11-5855-217-35
Searchlight Set, Infrared AN/VSS-3	

c. Modification Work Orders. Perform all modification work orders applicable to this equipment before performing tests specified. DA Pam 310-4 lists all available MWO'S.

10-3. Test Equipment Required

Nomenclature

The following test equipment, or suitable equivalents, will be used to determine compliance with this standard.

Parameters

range of 80° F to 115°F

p o w e r S u p p l y , PP-1656/G FSN 6130-985-8130	0 to 30 volts dc at 60 amperes
Photometer	Capable of measuring 10 ⁻⁵ footcandles
Zero length range photo- meter with recording console	Capable of measuring 60 X 10° foot-candles
Paint	High temperature opaque ceramic
Calibrated wheel	Calibrated in feet or yards per revolution
Tape measure	100 feet
Temperature recorder	Thermocouples with range 80°F to 500°F
Temco temperature chamber	Adequate physical size to hold searchlight and control box with a temperature

Section II. TEST PROCEDURES

10-4. Lamp Cooling and Thermostatic Switch Settings

To test the searchlight set for adequate lamp cooling and proper thermostatic switch function, perform the following step-by-step procedure.

Step No. Procedure

- 1 Be sure that no input power is applied to searchlight
- 2 Remove searchlight window.
- 3 Remove cover plate from searchlight biped. Warning. The xenon lamp contains gas under high pressure. Wear safety goggles, gloves and

Step No. Procedure

leather apron when installing thermocouple. Use extreme caution to avoid physical contact with the xenon lamp.

- 4 Position thermocouple within the biped next to the xenon lamp.
- 6 Pass the thermocouple wires through the mounting screw holes in the cover plate.
- 6 Mount the biped cover plate to the biped allowing the thermocouple wires to exit through the screw hole.
- 7 Paas the thermocouple wires between the searchlight window gasket and the searchlight window.
- 8 Remove the searchlight heat exchanger, but do not disconnect any wires. Lay the heat exchanger next to the searchlight with the heat exchanger interior facing up.
- 9 Connect test equipment as shown in figure 10-1.

 Warning: Do not look directly into the visible or infrared searchlight beam without the use of sefet y goggles. Serious eye damage may result.
- 10 Set OFF-INFRARED-VISIBLE switch to VISIBLE.
- Observe xenon lamp ignites within 3 seconds and continues to operate. Verify blower in heat exchanger is operating and air is blowing up and not around xenon lamp.
- 12 Observe OVER TEMP indicator and turn off searchlight when OVER TEMP indicator glows.
- Observe the temperature recorder and verify the temperature is $400 \pm 18^{\circ}F$.
- 14 Verify the blower motor in the heat exchanger continues to operate with OFF-INFRARED-VISIBLE switch in OFF position.

Step No. Procedure

- 15 Mount the heat exchanger to the searchlight case.
- 16 Observe the temperature recorder and verify the temperature decreases.
- When the temperature reaches 365° F, turn on the searchlight set.
- 18 Observe the OVER TEMP indicator glows.
- 19 Observe the temperature recorder and OVER TEMP indicator. Verify that the OVER TEMP indicator extinguishes when temperature reaches $340 \pm 18^{\circ}F$.
- 20 Turn off the searchlight set.
- Observe blower motor continues to operate until temperature reaches 125 $\pm 8^{\circ}F$.
- 22 Remove the searchlight window.
- 23 Remove the thermocouple.
- 24 Replace the biped cover and the searchlight window.
- 25 Place the fully assembled searchlight and the control box inside the temperature chamber.
- 26 Connect the remote control cable between the remote control box and the control box in the temperature chamber.
- 27 Adjust the temperature chamber for 115°F b4°F.
- 28 Turn on the searchlight set and operate for 1 hour.
- 29 Observe the OVER TEMP indicator and verify the indicator remains extinguished throughout the l-hour period.
- 30 Turn off the searchlight set and remove the searchlight and the control box from temperature chamher.
- 31 Allow xenon lamp to cool until blower motor shuts down. Turn off power supply and disconnect cables.

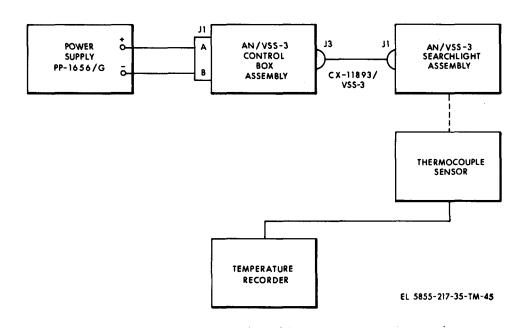


Figure 10-1. Test setup for lamp cooling and thermostatic switch settings.

10-5. Light Tightness Test

NOTE

This test requires three observers with normal or corrected 20/20 vision.

A ventilated room which can be blacked out to a maximum light level of 10-5 footcandles and has minimum dimensions of 26 X 45 feet is required for this test. Perform the step-by-step procedure below.

Step No.

Procedure

- Be sure no input power is applied to the searchlight Set.
- 2 Remove the searchlight window.

Warning: The xenon lamp contains gas under high pressure. Wear safety goggles, gloves and leather apron when working around or on the searchlight during this teat.

- 3 Mount the searchlight on the searchlight holding fixture.
- 4 Arrange the searchlight and associated equipment at one end of the test room.
- 5 Place the paint brush adjacent to the open can of opaque high temperature ceramic paint.
- 6 Connect the equipment as shown in figure 10-2.
- 7 Adjust the power supply for -28V dc $\pm 0.5V$.
- 8 Black out the test room.
- 9 Using the photometer, measure the light level in the test room. Verify that the light level is 10^{-5} footcandles or less.
- The three observers shall enter the darkened test room and wait a minimum of 30 minutes. This is to allow for eyes to adapt to the dark.
- 11 The three observers shall position themselves a minimum of 25 feet away from the front of the search-light.
- 12 Turn on and operate the searchlight set in the infrared mode.
- 13 The test technician shall rotate the searchlight 180° vertically and horizontally while the observers watch for pinholes in the filter.
- 14 Pin holes which permit passage of visible light shall be marked with opaque ceramic paint.

- Caution: Use only enough paint to mask the pinhole. Do not drop paint on the mirror reflector.
- 15 When all visible light has been masked, turn off the searchlight set.
- 16 Any evidence of visible light by two of the observers after applying opaque ceramic paint shall constitute failure of the test.
- 17 Turn on lights in the room and allow searchlight to cool.
- 18 Measure the total area masked on the filter. Verify the masked area is less than 0.1 percent of the total filter area, or less than 0.2 percent of the usable zone.
- 19 Disconnect all equipment and replace the searchlight case window.

10-6. Angular Visual Security Test

- a. Use the calibrated wheel to lay out a 1000 meter (1103 yards) target range (figure 10-3).
- *b.* Align the searchlight along the optical center line of the 1000-meter course.
- c. Connect the equipment as shown in figure 10-2.

NOTE

The angular visual security test must be performed at night.

- d. Use the photometer to verify that the light level is equal to or less than 2 X 10⁵ footcandles.
- *e.* Three persons shall dark-adapt their eyes for 30 minutes while the searchlight is temperature stabilizing in the infrared compact mode.

WARNING

Do not look directly into the visible or infrared searchlight beam without the use of



Figure 10-2. Test setup for light tightness, angular visual security, and beam characteristics test.

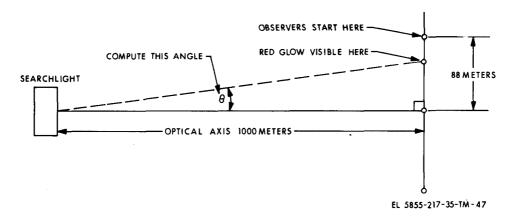


Figure 10-3. Target setup for angular visual security test.

safety goggles. Serious eye damage may result.

- f. The three observers shall move toward the optical axis from a point 88 meters off axis as shown in figure 10-3. The point at which the red glow becomes visible shall be marked and the angle, with respect to the searchlight axis, shall be calculated.
- g. Repeat step f starting 88 meters (97 yards) on the other side of the optical axis.
 - *h.* Turn off the searchlight set and compute the angle (θ) as shown in figure 10-3. The combined total of f and g shall not be greater than 5°.
- *i.* Allow the xenon lamp to cool until the blower motor shuts down. Turn off power supply and disconnect equipment.

10-7. Beam Characteristics Test

- a. Install the searchlight on the zero length photometer as shown in figure 10-4.
- b. Assure the inner and outer surfaces of the searchlight case window are clean.
 - c. Adjust the power supply for 28V dc ± 0.5 V.
- *d.* Verify sufficient paper and proper operation of the recording console.

WARNING

Do not look directly into the visible or in-

frared searchlight beam without the use of safety goggles. Serious eye damage may result.

- *e.* Turn on the searchlight set in visible compact mode.
 - f. Focus the searchlight on the parabolic mirror.
- *g.* Position the photometer to intercept the focal point of the parabolic mirror.
- *h.* Place the searchlight set in the infrared mode and allow a 2-hour warmup period.
- *i.* Start the automatic recording instruments on the zero length photometric system.
- *j.* Switch the searchlight set to the visible compact mode and sweep the parabolic mirror with the searchlight.
- *k.* Place the searchlight set to the visible spread beam mode.
- *l.* Start the automatic recording instruments and sweep the parabolic mirror with the searchlight.
- *m.* Turn off the searchlight set and allow blower to continue cooling.
- *n.* Remove the chart paper from the recording console and verify the results displayed on the chart paper are as follows:

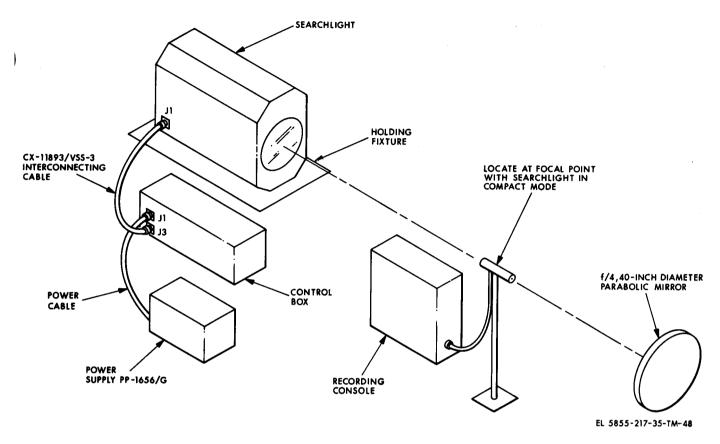


Figure 10-4. Test setup for beam characteristics test.

Compact Mode:

Beam width between 10% points: 1. 00 minimum Peak beam candlepower: Equal to or greater than 50 \times 10 $^{\circ}$ footcandles

Spread Mode:

Beam width between 10% points: 7° -0.7° Beam holing as a percent of peak: Equal to or less than 30%

o. When the blower shuts down, turn off the power supply and disconnect cables.

Figure 10-5. Resistor-inductor-capacitor color code chart. (Located in back of manual.)

APPENDIX A

REFERENCES

The following is a list of applicable references available to direct support, general support, and depot maintenance personnel of the Searchlight Set, Infrared AN/VSS-3:

DA Pam 310-1

Consolidated Index of Army Publications and Blank Forms.

TM 11-5855-217-12

Operator and Organizational Maintenance Manual Including Repair Parts and Special Tools List: Searchlight Set, Infrared AN/VSS-3 (NSN 5855-00-058-1293).

TM 11-5855-217-12-2

Operator's and Organizational Maintenance Manual Searchlight Set, Infrared AN/VSS-3 (NSN 5855-00-058-1293) and Searchlight Set, Infrared AN/VSS-3A (NSN 5855-00-177-3529), (NSN 5855-00-405-0404).

APPENDIX B

DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists repair parts, special tools, and test equipment required for the performance of direct support, general support, and depot maintenance of the AN/VSS-3.

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. N/A
- c. Federal Stock Number and Reference Number Index-Section IV. A list of Federal stock numbers in ascending numerical sequence followed by a list of reference numbers (manufacturers part number) in ascending alpha-numeric sequence, cross-referenced to the item sequence numbers.
- d. Index-Reference Designation-Cross-Re ference to Item Sequence Number-Section V. A list of reference designations in ascending alpha-numeric sequence cross-referenced to item sequence of the Repair Parts List.

B-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists of Sections II, III, and IV:

- a. Source, Maintenance, and Recoverability Codes (SMR), Column 1.
 - (1) Source code, indicates the selection status

and source for the listed item. Source codes used are:

- (a) Code "P"-applied to high mortality repair parts which are procured by, stocked in, and supplied from the military supply system and which are not considered insurance type items.
- (b) Code "PI"-applied to low mortality repair parts which are procured by, stocked in, and supplied from, the military supply system.
- (c) Code "G"-applied to major assemblies which are procured with PEMA funds for initial issue only and are used as exchange assemblies at direct and general support maintenance level. These assemblies will not be stocked above general support maintenance level or returned to depot supply level.
- (d) Code "M"-applied to repair pints which are not procured or stocked as separate supply items but are to be manufactured at the indicated maintenance levels. The lowest maintenance level authorized to manufacture the item will be entered in the second digit position of the source code.
- (e) Code "A"-applied to repair parts which are not procured or stocked as separate supply items but are to be assembled from two or more individually procured and stocked supply items at the indicated maintenance level. The lowest maintenance level authorized to assembled the item will be entered in the second digit position of the source code.
- (f) Code "C"-applied to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels.

- (g) Code "X"—applied to parts and assemblies which are not procured or stocked, the mortality rate of which is normally below that of the applicable end item, and the failure of which would result in retirement of the end item form service,
- (h) Code "X1"applied to repair parts which are not procured or stocked, the requirement for which will be filled by use of next higher procured and stocked assembly or component.
- (i) Code "X2" -applied to repair parts which are not procured or stocked, the requirement for which will be filled through cannibalization and salvage sources
- (j) Code "Z" -applied to obsolete repair parts no longer stocked or procured.
- (2) Maintenance code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:

Code	Explanation
0	Organizational maintenance
	Direct support maintenance
Н	. General support maintenance
D	Depto maintenance

- (3) Recoverability code, indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:
- (a) Code "R"-applied to repair parts and assemblies which are repaired at direct and general support maintenance levels, These repair parts which are not economically reparable at depot level will be recovered at the direct and general support maintenance levels and will be replaced from supply on an exchange basis.
- (b) Code "S"-repair parts and assemblies which are economically repairable at DSU and GSU activities and which normally are furniched by supply on an exhange 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.
- (c) Code "T"-applied to high dollar value repair parts which are subject to special handling and are most economically repaired, overhauled, or rebuilt at depot maintenance level. These repair parts will be recovered at the depot maintenance level and will be replaced from supply on an exchange basis.
- (d) Code "U"-applied to repair parts specifically selected for salvage because of precious metal content, critical materials; high-dollar value, reusable casing or casting material, etc. These repair parts will be recovered at the maintenance level prescribed by the commodity command.
- 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 Sequence number, Indenture code, Federal item name and any additional description of the item required. A sequence number followed by letter "D" shows item as deleted, 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 two character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.
- e. Quantity Incorporated in Unit, Column 5. This column indicates the quantity of the item used in the assembly group, A"V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc).
- f. 30-Day DS/GS Maintenance Allowances, Columns 6 and 7.

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. l-Year Allowances Per 100 Equipment/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 iterns indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one 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 illustration in which the item is shown.
- (2) Item Number, Column 10b. Indicates the callout number or reference designation used to reference the item in the illustration.

B-4. Special Information

- a. The basis of issue for authorized special tools, test and support equipment is the number of end items of equipment supported and the number of maintenance personnel allocated to perform the required maintenance.
- b. Parts which require manufacture or assembly at a category higher than the authorized for installation will indicate in the source column the higher category.
- *c*. The following publications pertain to Searchlight Set, Infrared AN/VSS-3 and its components.

TM 11-5855-217-12	Operator and Organiza- tional Maintenance Manual
TM 11-5855-217-12-2	Operator's and Organizational Maintenance Manual Searchlight Set, Infrared AN/VSS-3 (NSN 5855-00-058- 1293) and Searchlight Set, Infrared AN/VSS- 3A (NSN 5855-00-177- 3529); (NSN 5855-00- 405-0404).
TM 11-5855-217-12-20P TM 11-5855-217-35	Organizational Mainte- nance Repair Parts and Special Tools List Direct Support, General Support, and Depot Maintenance Manual

B-5. How to Locate Repair Parts

- a. When Federal Stock Number or Reference Number is unknown:
- (1) *First*. Find the illustration covering the assembly group to which the repair part belongs.
- (2) *Second*. Identify the repair part on the illustration and note the complete reference designation used to call out the item.
- (3) *Third.* Using the Reference Designation Cross-Reference to Item Sequence Number Index (Section V),

- find the reference designation and note the item sequence number listed.
- (4) *Fourth.* Locate the item sequence number in the Repair Parts List (Section II).
- b. Federal Stock Number or Reference Number is known.
- (1) First. Using the Index of Federal Stock Numbers and Reference Numbers, (Section IV) find the pertinent federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in Alpha-Numeric sequence, cross-referenced to the item sequence number.
- (2) *Second*. Note the item sequence number shown opposite the Federal Stock Number or Reference Number.
- (3) *Third*. Locate the item sequence number in the Repair Parts List (Section II).
 - c. When the Reference Designation is known:
- (1) *First*. Locate the reference designation in the Reference Designation Cross-Reference to Item Sequence Number index.
- (2) *Second*. Note the item sequence number shown opposite the reference designation.
- (3) *Third*, Locate the item sequence number in the Repair Parts List (Section II).

B-6. Abbreviations

Abbreviations	Explanation
cd-or	cadmium-or
zn-pltd	zinc-plated
MOD	MODEL
opn	opening
rd-hd	round head

B-7. Federal Supply Codes for Manufacturing

Code	Manufacturer
00141	Pic Design Corporation, 477 Atlanta Ave., East Rockaway, N.Y. 11518
00656	Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. 02745
01139	General Electric Co., Silicone Products Dept., Waterford, N.Y. 12188
02101	VARO Inc., Electrokinetics Division, P.O. Box 1500, Santa Barbara, Calif. 93103
02310	Abscoa Industries, 1071 W. Arbor Vitae St., Inglewood Calif. 90301
02697	Parker Seal Co., Division of Parkerhannifiri Corp. 2360 Palumbo Drive, Lexington, Ky. 40509
03038	Longlok Corp., 4101 Redwood Ave., Los Angeles, Calif. 90066
03355	E.V. Roberts and Associates, Inc., 9601 Jefferson Blvd., Culver City, Calif. 92030
03481	B.F. Goodrich Co., Aerospace and Defense Products Div., Akron, Ohio
04713	Motorola Semiconductor Products Inc., 5005 East McDowell Road, Phoenix, Ariz. 85008
04946	Standard Wire and Cable Co., 3440 Overland

Ave., Los Angeles, Calif. 90034

TM 11-5855-217-35

Code	Manufacturer	Code	Manufacturer
05301	Engelhard Industries, Baker Platinum Dept., 700 Blair Rd., Carteret, N.J. 07008	71785	Cinch Mfg. Co., and Howard B. Jones Div., 1026 S. Homan Ave Chicago, 111.60624
06540	Amatom Elecatronic, Hardware Division of Mite Corp., 81 Rockdale Ave., New Rochelle, N.Y. 10802	73134	Heim Universal Division of North American Rockwell Corp., 60 Round Hill Rd., Fairfield, Corm. 06430
07047	Ross Milton Co., The 511 Second Street Pike, Southampton, Pa., 18966	74400	John Hobbs, W. Ash St. and Yale Blvd., Springfield, Ill.
07707	USM Corp., Fastener Division, 510 River Road, Shelton, Corm. 06485	75237	Kaynar Co., The Division of Reiner Industries Inc., 7875 Telegraph Road, Pico Rivers, Calif. 90660
12143	Bendix Corp., The Electrical Components Div., Santa Ana Plant, 1001 S. Grand Ave., Santa Am, Calif. 92701	75915	Littlefuse Inc., 800E Northwest Hwy., Des Plaines, Ill. 60016
12324	Stake Fastener Co., 1710 N. Potrero Ave., South	76005	Lord Manufacturing Co., Division of Lord Corp., 1635 West 12th St., Erie, Pa. 16512
12705	El Monte, Calif. 91733 Electrooptical Systems, Division of Xerox Corp.,	79136	Waldes Kohinoor Inc., 47-16 Austel Place, Long Island City, N.Y. 11101
15291	300 North Halstead St., Pasadena, Calif. 91107 Adjustable Bushing Corp., 11905 Vose St., North Hollywood, Calif. 91605	80063	Army Electronics Command Procurement and Production Directorate, Fort Monmouth, N.J. 07703
18915	Birtcher Corp., The Industrial Division, 745 Monterey Pass Rd., Monterey Park, Calif. 91754	80201	Chicago Rawhide Mfg. Co., 1301 Elston Ave., Chicago, Ill. 60622
19738	Avdel Corp., 70 Fredrick St., Hackensack, N.J. 07601	80205	National Aerospace Standards, Committee Aerospace Industries Association of America Inc.,
21335	Fafnir Bearing Co., Division of Textron Inc., 37 Booth St., New Britain, Corm. 06050	81348	1725 Des Sales N. W., Washington, D.C. 20036 Federal Specification Promulgated by General Ser-
25072 27191	Western Airmotive Inc., P.O. Box 2445 Airport Station, Oakland, Calif. 94614 Cutlerhammer Inc., Power Distribution and Con-	81349	voces Administration Military Specifications Promulgated by Standardization Div. Directorate of Logistic Service DSA
27191	trol Div., 4201 N. 27th St., Milwaukee, Wis., 53216	82647	Texas Instruments Inc., Control Products Division, 34 Forest St., Attleboro, Mass. 02703
31356'.	JBT Instruments Inc., 424 Chapel St., P.O. Box 1818, New Haven, Corm. 06508	83330	Herman H. Smith Inc., 812 Snediker Ave., Brooklyn, N.Y. 11207
35344	Leach Corp., Relay Division, 5915 Avalon Blvd., Los Angeles, Calif. 90003	88044	Aeronautical Standards Group, Dept. of Navy and Air Force, Silver Spring, MD.
44655	Ohmite Mfg. Co., 3601 W. Howard St., Skokie, 111.60076	86928	Seastrom Mfg. Co. Inc., 701 Sonora Ave., Glendale, Calif. 91201
46384	Penn Engineering and Mfg. Corp., Old Easton Highway, Doylestown, Pa. 18901	91929	Honeywell Inc., Micro Switch Division, Chicago and Spring Streets, Freeport, Ill. 61032
56289 59730	Sprague Electric Co., North Adams, Mass. 01247 Thomas and Betts Co., 36 Butler St., Elizabeth,	96881	Thomson Industries, Inc., 1029 Plandome Rd., Manhasset, N.Y. 11030
70318	N.J. 07207 Allnetal Screw Products Co., Inc., 821 Stewart	96906	Military Standards Promulgated by Standardization Div. Directorate of Logistic Services DSA
71041	Ave., Garden City, N.Y, 11530 Boston Gear Works, Div. of North American	98003	Nielsen Hardware Corp., 770 Weathersfield Ave., Hartford, Corm.
	Rockwell Corp., 14 Hayward St., Quincy, Mass. 02171	98270	Iowa Sheet Metal Contractors Inc., 2601 Bell, Des Moines, Iowa
71286	Rex Chain Belt Inc., Camloc Div., 22 Spring Valley Rd., Paramus, N.J. 07652	98278	Microdot Inc., 220 Pasadena Ave., South Pasadena, Calif. 91030

1 7		CITON II REPAIR PARIS FUR DIREC			- Avera	LIVAL						7111 I		IOL.
SM COD	(2) Federal Stock Number	(3) DESCRIPTION	(4 INI OF	(5)T IC		D: 3		6) D:30-D .01	(7) Ay GS Allow <i>a</i>	MAIN NCE	(8 × 8)	(10) [RAT	I(_ b)[;	ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE CODE	JEA	NI		(b (a) -20 2	(b (a	(b]-	C I	- :QU -:QU VTG	Ì	FI N(ITEM NO. OR REFERENCE DESIGNATION
 0	5855-058-1293	A001 A SEARCHLIGHT SET, IR AN/VSS-3: 1126924-3; (12705))-	
0	5995 - 135-0081	A002 B CABLE ASSEMBLY, PWR, ELECTRICAL: 1126831-1; (12705)	EA	1		2	***	1.	1	:	4C			ŗΜ
X1-0		A003 C ADAPTER , POTTING : 10-242067-285 ; (12143)	EA	1										4WMP2
X1- 0		A004 C ADAPTER , POTTING : SAME AS A00 3	EA	1										4WMP1
X2-F	9905-114-1334	A005 C BAND, MARKER, BLANK: MS39020-31; (96906)	EA	1										4 wm 25
X2-F	9905-114-1334	A006 C BAND, MARKER, BLANK: SAME AS A005	EA	1										4 WMP6
X2-F	9905-114-1334	A007 C BAND, MARKER, BLANK: SAME AS A005	EA	1										4WMP7
X2-F) 905–114 – 1334	A008 C BAND, MARKER, BLANK: SAME AS A005	EA	1										4wmp8
X1-0		A009 C CONNECTOR, PLUG, ELECTRICAL: 10-107632-6P; (12143)	EA	1										4wP2
X1 - 0		A010 C CONNECTOR, PLUG, ELECTRICAL: 10-107632-68; (12143)	EA	1										4WP1
X1-0		AO11 C MOLD, POTTING, ELECTRICAL CONNECTOR: 10-130999-28; (12143)	EA	1										4WMP4
X1-0		A012 C MOLD, POTTING, ELECTRICAL CONNECTOR: SAME AS A011	ΞA	1										4WMP3
P0-	855-135-0155	A013 B CONTROL, SCHLT SET C-7905/VSS-3 1126833-3; (12705)	ΞA	1	1	3	5	1	1	1	59		-4	2
0	305-269-2803	A014 * SCREW, CAP, HEXAGON HEAD: MS90726-60; (96906)	ĒĀ	4	*	1	1	*	1	1	16			34-4
0	310-061-1258	A015 * WASHER, LOCK: MS45904-76; (96906)	čA.	4	*	1	1	*	1	1	16			15-4
X1-0-		A016 C CONTROL SUBASSEMBLY: 1126557-3; (12705)	LA	1										SVI
—н		A017 D BRACKET , RELAY: 1126556-1; (12705)	ìA	1									-2	SATW53
X2-F	305-054 - 6670	A018* SCREW, MACHINE: MS51957-45; (96906)	lA	L _k									-2	?Alh48-4
X2-F	310-880-5978	A019 * WASHER, FLAT: MS15795-807; (96906)	lA.	4									-2	?AlH8-4
X2-F	310-933-8119	A020* WASHER, LOCK: MS35338-137; (96906)	ĽΑ	4									•2	PA1H26-4
Н		A021 D BRACKET , TERMINAL BOARD: 1126562-1; (12705)	'A	L									٠2	!Almp8
Н		A022 D BRACKET ASSEMBLY , CAPACITOR : 1126550-3 ; (12705)	Ά	L									-2	ALA2
\$2−F		A023* SCREW, MACHINE : MS16995-17; (96906)	A	+									·2	A1H45-4
X2-F		A024 * WASHER , FLAT : MS15795-805 ; (96906)	A	ł									-2	AlH3-4
X2-F	310-929-6395	A025 * WASHER , LOCK : MS35338-136 ; (96906)	A	٠									Ñ	A1H18-4
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SECTION II REPAIR PARTS FOR DIRECT SUPPORT GENERAL SUPPORT. AND DEI OT MAINTENANCE (Continued)

(1) SMR CODE	(2) Federal Stock	(3) DESCRIPTION	(4) UNIT OF	(5) QTY NC 1		(6) AY DS P ALLOWAR		30-1	GS 1	MAINT	(8) YR LW PE	(9) FPO		LLUSTRATIONS
	NUMBER	REFERENCE NUMBER & MFR. CODE CODE	ЧĚÁS	ÎĬŇĬ	(a) 1-2	(b) 21-5	(·	(a) 1-20	(b)	ਜੂਹ ਜੂਹ ਸ	100 EQUI NTGC	AI N LWPI 100 QUI	(a) FI(NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
			Î				-	,-2,0	1		1100	401		DESIGNATION
H		1026 E BRACKET, MOUNTING, CAPACITOR: 1126549-3; (12705)	EA	1									9-2	2AlA2MP1
X2-F	340-951-1532	\027 E CLIP, SPRING TENSION: MS17160-36; (96906)	EA	1									9-2	2Ala2MP2
X2-F	320-619-0498	1028 * RIVET, SOLID: MS20426A4-4; (96906)	EA	2									9-2	2Ala2Hl-2
X2-F	340-951-1532	1029 E CLIP, SPRING TENSION: SAME AS A027	EA	1									9–2	2Ala2MP3
X2-F	320-619-0498	1030 * RIVET, BOLID: BAME AS A028	EA	2									9-2	2A1A2H2-2
X2-F	340-951-1532	O31E CLIP, SPRING TENSION: BAME AS AC27	EA	1									9–2	2A1A2MP4
X2-F	320-619-0498	.032* RIVET , SOLID: SAME AS A028	EA	2									9-2	2A1A2H3-2
X2-F	340-951-1532	.033 ECLIP, SPRING TENSION : SAME AS A027	EA	ı									9-2	2A1A2MP5
X2-F	320-619-0498	.034 * RIVET, SOLID: SAME AS A028	EA	2									9-2	5 VTV5 H ₇ -5
X2-F	340-951-1532	.035 E CLIP, SPRING TENSION : SAME AS A027	EA	1									9-2	SATASWB6
X2-F	320-619-0498	.036 * RIVET, SOLID : SAME AS A028	EA	2									9-2	2A1A2H5-2
X2-F	340-951-1532	.037 E CLIP, SPRING TENSION: SAME AS A027	EA	1									9-2	PALA2MP7
X2-F	320-619-0498	.038 * RIVET , BOLID : SAME AS A028	EA	2									9-2	PATASHE-5
X2-F	140-951-1532	039 E CLIP, SPRING TENSION: SAME AS A027	EA	1									9-2	2Ala2MP8
X2-F	120-619-0498	040 * RIVET, SOLID: SAME AS A028	EΑ	2									9-2	2A1A2H7-2
X2-F	140-951-1532	041 E CLIP, SPRING TENSION: SAME AS A027	EA	1									9-2	2AlA2MP9
X2-F	120-619-0498	042 * RIVET , SOLID : SAME AS A028	EA	2									9-2	?A1A2H8-2
X2-F	140-951-1532	043 E CLIP, SPRING TENSION: SAME AS A027	E.A.	1									9- 2	Ala2MP10
X2-F	120-619-0498	044 * RIVET, SOLID: SAME AS A028	EA	2									9-2	?Ala2H9-2
X2-F	140-951-1532	045 E CLIP, SPRING TENSION: SAME AS A027	EA	1									9–2	PALA2MP11
X2-F	120-619-0498	046 * RIVET, SOLID: SAME AS A028	EA	2									9-2	A1A2H10-2
X2-F	40-951-1532	047 E CLIP, SPRING TENSION: SAME AS A027	EA	1									9-2	ALA2MP12
X2-F	20-619-0498	048 * RIVET, SOLID: SAME AS A028	EA	2									9-2	ATVANTE
X2-F	40-951-1532	049 E CLIP, SPRING TENSION: SAME AS A027	EA	1									9-2	ALA2MP13
X2-F	20-619-0498	050 * RIVET, SOLID: SAME AS A028	EA	2									9-2	'Ala2H12-2
R-6			_	' <u>—</u>				L I	_					

FEDERAL Stock Number	DESCŘÍŘTION	(4) UNIT		20 0	IV DC "	MATHE	20 00	(7) 30-DAY GS MAINT		1 Vn	DC D AT	(10) ILLUSTRATIONS		
	USABLE ON	OF Meas	(5) QTY INC IN UNIT	,	Y DS M	(CE	P	LLOWA	ICE	ALWPER	MAINT ALWPER 100	(a) FIG	(b) ITEM NO. GR	
	RE FERENCE NUMBER & MFR. CODE CODE			(a) 1-20	(b) 21 - 50	(c) 51-100	(a) 1-20	21-50	(c) 51 - 100	CNTGCY	EQUIP	NO.	REFERÊNCE DESIGNATION	
5910-177-4415 A	050A E CAPACITOR , FIXED , ELECTROLYTIC : 601D367F150JT4; (56289)	EA	1	1	2	3	1	1	1	46	30	9-2	2A1C1	
5910-177-4415 A	050B E CAPACITOR, FIXED , ELECTROLYTIC : SAME AS A050A	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9-2	2AlC2	
5910-177-4415 A	O5OC E CAPACITOR, FIXED, ELECTROLYTIC : SAME AS A05OA	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9 - 2	2A1C3	
5910-177-4415 A	050E E CAPACITOR, FIXED , ELECTROLYTIC : SAME AS A050A	EΑ	1	REF	REF	REF	REF	REF	REF	REF	REF	9-2	2AlC4	
5910-177-4415 A	O5OF E CAPACITOR, FIXED , ELECTROLYTIC : SAME AS A050A	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9 - 2	2A1C5	
5910-177-4415 A	O50G E CAPACITOR , FIXED, ELECTROLYTIC : SAME AS AO 50A	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9-2	2A1A2C6	
5970 - 177-4350 A	050H E TERMINAL FEEDTHRU: 6156; (98270)	EA	10	1	2	3	1	1	1	33	20	9-2	2Ala2El-ElO	
	A0501 E STANDOFF: 8428-55-1037-7; (06540)	EA	1										2Ala2MP16	
5310-595-6772	A050J * WASHER , FLAT : MS15795-808; (96906)	EA	2										2A1A2H1 5-2	
		EA	2										2A1A2H16-2	
		EA	2										2A1A2H17-2	
	A050M E TERMINAL FEED: FT9; (96906)	EA	2									9 - 2	2A1A2E102 , E103	
	AO50N E WIRE, BUS: QQW343; (81348)	FΤ	ı										2AlA2Ml7	
5999-992-9958	A051 E RETAINER, CIRCUIT BOARD: 15B5-3; (18915)	EA	1									9-2	2AlA2MP14	
5320-655-4757	A052* RIVET. SOLID: MS20426A3-4; (96906)	EA	2									9–2	2A1A2H13-2	
5999-992-9958	A053 E RETAINER, CIRCUIT BOARD: SAME AS A051	EA	1									9-2	2A1A2MP15	
5320-655-4757	A054* RIVET, SOLID: SAME AS A052	EA	2									9-2	2A1A2H14-2	
	A055 D BRACKET ASSEMBLY , SHIELD : 1126570-1 ; (12705)	EA	1									9-2	2AlA6	
	A056 E BRACKET, ANGLE: 1126570-3; (12705)	EA	1										2AlA6MPl	
5310-944-7629 A	057 E NUT, SELF-LOCKING, CLINCH: K7001-04-6; (75237)	EA	1									9-2	2Ala6MP2	
	A058 D BRACKET ASSEMBLY SHIELD: SAME AS A055	EA	1									9-2	2AlA5	
	A059 E BRACKET, ANGLE : SAME AS A056	EA	1										2AlA5MPl	
i310-944-7629	A060 E NUT , SELF-LOCKING , CLINCH: SAME AS A057		1									9-2	2AlA5MP2	
	1061D													
	1062D													
	5910-177-4415 A 5910-177-4350 A 5910-995-6772 5310-933-8120 A 5320-655-4757 53999-992-9958 E 5320-655-4757	A050C E CAPACITOR, FIXED, ELECTROLYTIC: SAME AS A050A 6910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: SAME AS A050A 6910-177-4415 A050F E CAPACITOR, FIXED, ELECTROLYTIC: SAME AS A050A 6910-177-4415 A050F E CAPACITOR, FIXED, ELECTROLYTIC: SAME AS A050A 6910-177-4415 A050F E CAPACITOR, FIXED, ELECTROLYTIC: SAME AS A050A A050F E TERMINAL FEEDTHRU: 61.56; (96270) A050I E STANDOFF: 64.28-55-1037-7; (06540) A050I E STANDOFF: MS15795-808; (96906) A050M E MASHER, FLAT: MS15795-808; (96906) A050M E TERMINAL FEED: FT9; (96906) A050M E TERMINAL FEED: FT9; (96906) A050M E TERMINAL FEED: FT9; (96906) A050M E TERMINAL FEED: FS9; (96906) A050M E TERMINAL FEED: FSSCORPH FOR	### S910-177-4415 A050B E CAPACITOR, FIXED, ELECTROLYTIC: ### SAME AS A050A ### A050A ### A050A ### SAME AS A050A ### A050A ### A050A ### SAME AS A050A ### A050A	\$910-177-4415	\$910-177-4415 A050A E CAPACITOR , FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4415 A050E E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF \$910-177-4450 A050E E TERMINAL FEEDTHRU : EA 1	\$910-177-4415 A050A E CAPACITOR, FIXED (ELECTROLYTIC: EA 1 1 2 2 6010367F150JT4; (56289) \$910-177-4415 A050B E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF REF SAME AS A050A SAME AS A050A \$910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF REF SAME AS A050A \$910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF REF SAME AS A050A \$910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF REF SAME AS A050A \$910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF REF SAME AS A050A \$910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF REF REF SAME AS A050A \$910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF REF REF REF SAME AS A050A \$910-177-4415 A050E E CAPACITOR, FIXED, ELECTROLYTIC: EA 1 REF	\$910-177-4415 A050A E CAPACITOR , FIXED , ELECTROLYTIC : EA 1 1 2 3 3 5910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF SAME AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF SAME AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF SAME AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF SAME AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF REF SAME AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF REF SAME AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF REF SAME AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF	\$910-177-4415 A050A E CAFACITOR , FIXED , ELECTROLYTIC : EA 1 1 2 3 1 \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF REF SHAW AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF REF REF SHAW AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF REF REF SHAW AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF REF REF REF REF SHAW AS A050A \$910-177-4415 A050B E CAPACITOR, FIXED , ELECTROLYTIC : EA 1 REF	\$910-177-4415 A050A E CAFACITOR, FIXED , ELECTROLYTIC: EA 1 1 2 3 1 1 1 2 3 1 1 1 2 3 3 1 1 1	\$910-177-4415 A050A E CAPACITOR , FIXED , ELECTROLYTIC : EA 1 1 2 3 1 1 1 1 2 3 1 1 1 1 1 1 2 3 1 1 1 1	SQ10-177-4415 ADSOA E CAPACITOR FILED FLECTROLITIC	1	1 1 2 3 1 1 1 1 1 1 1 1 1	

(1) SMR	(3) DESCRIPTION			5) TY C I)	10-DA	(6) Y DS M	AINT	IO-DA	(7) Y GS M	AINT	(8) YR W PEI 100 QUIF TGC	(9) EPOT AI NI		ILLUSTRATIONS (b)
:ODE	NUMBER	REFERENCE NUMBER & MFR. CODE USABLE ON CODE	AS	ίΙΤ̈́	a) 1	(b) -50	<u>ಕ್ಷ</u>	(a)	LLOWAN b) 21 <u>-5(</u>	뜻이	OUIF TGC	WPE 100 QUIP	a) 16 0.	ITEM NO. OR REFERENCE DESIGNATION
_								_						
		.063D												
		.0640												
		.0650												
		.066D												
F	855-247-7219	.067 D CIRCUIT BREAKER: 29C4-1-10A; (82647)	EA	1	1	1	1	1	1	1	12	5	 2	PA1CB1
2 - F	305-763-6962	.068 * SCREW, MACHINE : MS51959-27 ; (96906)	ĒΑ	2									-2	2A1H53-2
2 -F	310-933-8119	.069 * WASHER, LOCK: SAME AS A020	ĒA	2									- 2	2A1H29-2
F	1030-081-23140	1069A * COMPOUND SEAL: MILS22473GRADEAA ; (81349)	PT.	1	1	1	1	1	1	1	5	2		PA1CB1MP1-1
F-	855 -245-8447	1070 D CIRCUIT CARD ASSEMBLY, TIMER , CB : 1126533-1; (12705)	ĒA	ı	1	3	5	1	1	1	59	36	- 2	2A1A3
D	910-105 -1924	1071 E CAPACITOR, FIXED , CERAMIC DIEL : CK06BX223K; (81349)	ĒA	1							13	6	- 3	2AlA3C 3
D	i910-105-1924	1072 E CAPACITOR, FIXED , CERAMIC DIEL : SAME AS A071	£Α	ı							₹EF	₹EF	-3	2AlA3C4
D	910-926-8217	1073 E CAPACITOR, FIXED, ELECTROLYTIC: CSR13F476K; (81349)	EΑ	1							13	6	- 3	PALA3C1
D	910-926-8217	1074 E CAPACITOR, FIXED, ELECTROLYTIC: SAME AS A073	EA	1							₹EF	₹EF	- 3	2A1A3C2
D	i961 - 929 - 3715	1075 E MOUNTING PAD, TRANSISTOR: 10007; (07047)	EA	1							13	6		?Ala3MPl
D	i961 - 929 - 3715	1076 E MOUNTING PAD , TRANSISTOR : SAME AS A075	EA	1							REF	REF		2Ala3MP2
D	;961 - 929 - 3715	1077 E MOUNTING PAD, TRANSISTOR: SAME AS A075	EA	1							REF	REF		2Ala3MP3
D	i961 - 907 - 8275	1078 E MOUNTING PAD, TRANSISTOR: 10026; (07047)	EA	1							10	14		2Ala3MP4
D	i961-907-8275	1079 E MOUNTING PAD, TRANSISTOR: SAME AS A078	EA	1							REF	REF		2AlA3MP5
1 - D		1080 E PRINTED WIRING BOARD TIMER , CB : 112652 8-1 ; (12705)	EA	1									1-3	2AlA3PCl
D	3905-279-3502	4081 E RESISTOR, FIXED, COMPOSITION: RC20GF123J; (81349)	EA	1							5	2	1-3	2AlA3R7
D	5905-279-3514	4082 E RESISTOR, FIXED, COMPOSITION: RC20GF181J; (81349)	EA	1							5	2) - 3	2Ala3R8
'D	3905-279-2674	A083 E RESISTOR, FIXED , COMPOSITION : RC2OGF201J ; (81349)	EA	1							5	2)- 3	2A1A3R12
~ −D	3905-279-3519	4084 E RESISTOR, FIXED , COMPOSITION : RC2OGF220J; (81349)	EA	1							10	4) –3	2AlA3R3
'D	5905-279-3519	A085 E RESISTOR, FIXED , COMPOSITION : SAME AS A084	EA	1							REF	REF	}- 3	2AlA3R15
'D	5905-299-1965	A086 E RESISTOR, FIXED, COMPOSITION: RC20GF301J; (81349)	EA	1							13	6		2AlA3R1
l													ı	

_	SE	CTION	II REPAIR PARTS FOR DIRECT	SUP		GENE	RAL	SUPP	ORT,	AND	DEP			NAN	
(1) SMR CODE	(2) Federal Stock		(3) Description	(4) VII X-	5) TY C I	IO-DA	(6) Y DS M LLOWAN			(7) (GS M LLOWAN		(8) YR WPE	(9) EPOT AINT WPE	1) [G	(10) LLUSTRATIONS (b)
	NUMBER	REFERENC	USABLE ON E NUMBER & MFR. CODE CODE	:AS	IIT	a) -20	b) -5(c) -10	(a) -20	ь) <u>-5(</u>	c) 10(3 I G	100 QUIP).	(b) ITEM NO OR REFERENCE DESIGNATION
?D	05-299-1965		RESISTOR, FIXED , COMPOSITION : SAME AS A086	EA	1							ŒF	(EF	3	PALA3R17
:D	05-299-1965		RESISTOR, FIXED, COMPOSITION: SAME AS A086	EA	1							ŒF	ŒF	-3	PALA3R18
?D	05-252-4018	A089 E 1	RESISTOR, FIXED, COMPOSITION: RC20GF470J; (81349)	EA	1							10	14	.3	PALA3R4
?D	05-252-4018	A090 E F	RESISTOR , FIXED , COMPOSITION : SAME AS A089	EΑ	1							EF	tEF	٠3	ALA 3R 1 4
}D	05-279-2673	A091 E I	RESISTOR, FIXED, COMPOSITION: RC20GF622J; (81349)	EA	1							5	2	.3	Ala3R5
?D	05-279-2596	A092 E	RESISTOR, FIXED, COMPOSITION: RC42GF121J; (81349)	EA	1							5	2	٠3	PA1A3R6
,D	05-256-0412	A093 E	RESISTOR, FIXED, COMPOSITION: RC42GF181J; (81349)	EA	1							13	6	.3	A1A3R9
,D	05-256-0412		RESISTOR, FIXED, COMPOSITION: SAME AS A093	EA	1							EF	EF	.3	ALA3R10
,D	05-256-0412	A095 E I	RESISTOR, FIXED , COMPOSITION : SAME AS A093	EA	1							EF	EF	-3	ALA3R11
,D	05-882-5298	A096 E 1	RESISTOR, FIXED, FILM: RN60E1003F; (81349)	EA	1							5	2	-3	Ala3R16
,D	05-088-3349	A097 E I	RESISTOR, FIXED, FILM: RN60E6812F; (81349)	EΑ	1							5	2	-3	ALA3R2
,D	05-916-7562	A098 E I	RESISTOR , FIXED , WIRE WOUND : 4427-995-3A; (44655)	EA	1							5	2	-3	'AlA3R13
,D	61-855-1065	A099 E	SEMICONDUCTOR DEVICE , DIODE : 1N3026B ; (04713)	EA	1							5	2	-3	ALA3CR7
,D	61-722-1480	A100 E	SEMICONDUCTOR DEVICE, DIODE: 184005; (04713)	EA	1							27	14	.3	'ALA3CR2
,D	61-722-1480	A101 E	SEMICONDUCTOR DEVICE, DIODE: SAME AS A100	EA	1							EF	EF		ALA3CR3
,D	61-722-1480		SEMICONDUCTOR DEVICE, DIODE: SAME AS A100	EA	1							EF	EF	.3	'Ala3cr6
,D	61-722-1480	A103 E	SEMICONDUCTOR DEVICE, DIODE: SAME AS A100	ΞA	1							EF	EF	-3	Ala3CR8
,D	61-722-1480		SEMICONDUCTOR DEVICE, DIODE: SAME AS A100	ΞA	1							EF	EF	-3	'Ala3CR9
,D	61-722-1480		SEMICONDUCTOR DEVICE, DIODE: SAME AS A100	EA.	1							EF	EF	•3	ALA3CR10
?D	61-018-9194	A106 E	SEMICONDUCTOR DEVICE, DIODE: 1N4734A; (04713)	EA	1							5	2	-3	ALA3CR5
?D	61-892-0988		TRANSISTOR: 2N1597; (04713)	EA	1							10	14	•3	?A1A3Q4
—-	961-892-0988		TRANSISTOR: SAME AS A107	EA	1							REF	REF	-3	2AlA3Q5
D	961-902-1177		TRANSISTOR: 2N2646; (04713)	EA	1							10	4	-3	2AlA3Ql
D	961-902-1177	A110 E	TRANSISTOR : SAME AS Al09	EA	1							REF	REF	-3	2Ala3Q3
D	59 6 1 05 4 00 46		TRANSISTOR: AN2NI 17 I (8 1 349)	EA	1							5	2	-3	2A1A3Q2
		1						_							
_								L '				(Char	ıge	1 B-9

					, atm	FKAL	JUFF	UKI,	שווה	DEF			יחאחי	CE (Continued)	
	(1) SMR CODE		(3) DESCRIPTION		5) [Y : I		Y DS M		0-1	GŠ M		8) YR 1PEI 00	POT J. N.I WPE	a) 🖥	(b)
### 130-98-7714 1310-8877, FARTH SERIORS EA		NUMBER		:A3			b) -5(<u> </u>	a) -20	£ 5	c) 10	JUIF	85	Ю.	REFERENCE
### 130-98-7714 1310-8877, FARTH SERIORS EA															
Marshaped Marshaped 1,000165	'F	935-813-4364	.112 E CONNECTOR, RECEPTACLE, ELEC: MS3102R18-1S; (96906)	EA	1	*	*	*	*	*	*	5	2	- 2	PALJ2
### 310-95-6211 115 MASSET TATE 12 12 13 14 15 MASSET TATE 12 MAS	:2-F	310-934-9748	113* NUT, PLAIN, HEXAGON: MS35649-244; (96906)	EA	4									-2	?A1H36-4
### 310-933-6116 1.6 * MERTER 1.007: ### 310-933-6116 1.6 * MERTER 1.007: ### 310-933-6116 1.1 * MERTER 1.007: ### 310-933-6116 1.1 * MERTER 1.007: ### 310-933-6116 1.1 * MERTER 1.007: ### 310-933-612 1.1 * MERTER 1.007: ### 310-933-626 1.1 * MERTER 1.007: ### 310-933-627 1.2 * MERTER 1.007: ### 310-933-627 1.3 * MERTER 1.007: ### 310-933-628 1.3 * MERTER 1.007: ### 310-933-629 1.3 * MERTER 1.007: ### 310-933-621 1.3 * MERTER 1.007: ### 310-933-629 1.3 * MER	'F	305-732-9205		EA	Ìţ.	*	1	1	*	1	1	16	8	-2	?AlH54-4
### ### ### ### ### ### ### ### ### ##	:2 -F	310-595-6211	.115 * WASHER, FLAT: MS15795-803; (96906)	EA	4									-2	SVIHI-A
### 310-931-9759 118 MESIACE 12-FF; (56905) MARCHAN :2-F	310-933-8118	.116 * WASHER , LOCK : MS35338-135 ; (96906)	EA	4									- 2	2A1H16-4	
10-93-93-9269 119 **SCRM. SELF-SELIND:		935-855-4416	117 D CONNECTOR , RECEPTACLE , ELEC: MS3102R32-5P; (96906)	EA	1	*	*	*	*	*	*	5	2	- 2	2AlJ1
2-7 310-880-5978 120 * WASEER, TRAT: 310-880-5978 120 * WASEER, TRAT: 310-933-8119 121 * WASEER, TRAT: 310-933-8119 121 * WASEER, TRAT: 310-933-8119 122 * WASEER, TRAT: 310-933-9779 123 * WIT, FLANK, MICHAGON: 2-7 310-933-9779 123 * WIT, FLANK, MICHAGON: 2-7 310-933-9789 126 * WASEER, TRAT: 310-880-5978 125 * WASEER, TRAT: 5ANG AS ALI9 2-7 310-933-8119 125 * WASEER, TRAT: 5ANG AS ALI9 2-7 310-933-8119 125 * WASEER, TRAT: 5ANG AS ALI9 2-7 310-933-8119 126 * WASEER, TRAT: 5ANG AS ALI9 2-7 310-933-8119 126 * WASEER, TRAT: 5ANG AS ALI9 310-933-9119 126 * WASEER, TRAT: 5ANG AS ALI9 2-7 310-933-9119 126 * WASEER, TRAT: 5ANG AS ALI9 310-933-9110 126 * WASEER, TRAT: 5ANG AS ALI9 310-933-9716 128 * WASEER, TRAT: 5ANG AS ALI9 310-933-9116 127 * WASEER, TRAT: 5ANG AS ALI9 310-933-9116 128 * WASEER, TRAT: 5ANG AS ALI9 310-933-8116 121 * WASEER, TRAT: 5ANG AS ALI9 310-933-8116 123 * WASEER, TRAT: 5ANG AS ALI9 310-933-8120 123 * WASEER, TRAT: 5ANG AS ALI9 310-933-8120 123 * WASEER, TRATE: 5ANG AS ALI9 5ANG	:2-F	310-934-9759	ll8 * NUT, PLAIN, HEXAGON: MS35649-284; (96906)	EA	14									· - 2	2A1H38-4
22-7 310-93-8119 121 * MARKER, LOCK: SAME AS AD19 22-7 310-93-8119 121 * MARKER, LOCK: SAME AS AD219 23-7 310-931-9759 122 * MARKER, LOCK: SAME AS AD219 23-7 310-931-9759 122 * MARKER, SELECTACLE, SELEC: SAME AS AD219 23-7 310-931-9759 123 * MARKER, SELECTACLE, SELEC: SAME AS AD319 23-7 310-931-9759 123 * MARKER, SELECTACLE, SELEC: SAME AS AD319 23-7 310-931-9759 123 * MARKER, SELECTACLE, SELEC: SAME AS AD319 23-7 310-931-9319 125 * MARKER, SELECTACLE, SELEC: SAME AS AD319 23-7 310-931-9319 126 * MARKER, SELECTACLE, SELEC: SAME AS AD319 23-7 310-931-9319 126 * MARKER, SELECTACLE, SELEC: SAME AS AD319 23-7 310-931-9319 128 * MMT, PLAIR, MECAGON: SAME AS AD319 23-9 310-931-9319 128 * MMT, PLAIR, MECAGON: SAME AS AD319 23-9 310-931-9319 128 * MMT, PLAIR, MECAGON: SAME AS AD319 23-9 310-931-9319 128 * MMT, PLAIR, MECAGON: SAME AS AD319 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD319 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD319 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD319 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD319 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD319 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD319 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-9318 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-935 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-9310 123 * MMT, PLAIR, MECAGON: SAME AS AD350 24-7 310-931-9310 123 * MMT, PLAI	·F	305-933-9269	119 * SCREW, SELF-SEALING: R8-32X3-4: (02310)	EA	4	1	1	2	1	1	1	27	15	-2	2A1H55-4
22-7 310-93-8119 121 * WASKER , LOCK: SAME AS ADDRESS OF SERVICES, SLED: SAME AS ADDRESS OF SAME AS ADDR	:2-F	310-880-5978	120 * WASHER , FLAT :	EA	4									-2	2A1H9-4
935-991-7233 122 D CONTENTOR , MESCEPIACLE, SIZE: EA 1 " " " " " 5 2 1-2 2ALJA MESIACRIS-65 (96965) 22-F 310-934-9759 123 " SCHEM, SELF-SELLING: SAM AS ALIS 23-P-7 305-93-9269 124 " SCHEM, SELF-SELLING: SAM AS ALIS 23-P-7 310-934-9769 125 " MASEER, ILOX: SAM AS ALIS 23-P-7 310-934-8119 126 " MASEER, ILOX: SAM AS ALIS 23-P-7 1935-901-7008 127 D CONTENTOR, RECEPTACLE, FIZE: EA 1 1 1 1 1 1 1 1 1 5 5 2 2ALIS-1-2 2ALIS-1-2 310-934-9768 128 " SCHEM, MACHINE: SAM AS ALIS 23-P-7 1310-934-9769 128 " SCHEM, MACHINE: SAM AS ALIS 23-P-7 1310-934-9769 123 " MASEER, ILOX: SAM AS ALIS 23-P-7 1310-934-9769 123 " MASEER, ILOX: SAM AS ALIS 24-P-7 1310-934-9769 123 " MASEER, ILOX: SAM AS ALIS 25-P-7 1310-934-9769 123 " MASEER, ILOX: SAM AS ALIS 25-P-7 1310-934-9769 123 " MASEER, ILOX: SAM AS ALIS 25-P-7 1310-934-9769 123 " MASEER, ILOX: SAM AS ALIS 25-P-7 1310-934-9769 123 " MASEER, ILOX: SAM AS ALIS- SAM AS	12-F	310-933-8119	121 * WASHER , LOCK:	EA	4									- 2	2A1H27-4
10-94-9759 123 * MUT, FLAIR, HEXAGON: EA	`F	935-991-7233		EA	1	*	*	*	*	*	*	5	2	-2	2A1J4
305-933-9269 1124 * SCHEW, SELF-SEALING: SAME AS A119 EA	(2-F	310-934-9759	123 * NUT, PLAIN, HEXAGON:	EA	4									1-2	2A1H39-4
12-F 310-880-5976 125 * WASHER, FLAT: SAME AS ACIO EA 1 1 1 1 1 1 1 1 1	}F	305-933-9269	1124 # SCREW, SELF-SEALING :	EΑ	4	₹EF	REF	EF	EF	EF	EF	EF	EF	1-2	2 A1H 56-4
1310-933-8119 1126 * MASHER, LOCK: SAME AS ACCOUNT. 1935-901-7008 1127 D CONNECTOR, RECEPTACLE, ELEC:	(2-F	310-880-5978	1125 * WASHER, FLAT:	EA	14									1-2	2A1H10-4
P-F 1935-901-7008 1127 D CONNECTOR, RECEPTACLE, ELEC: 251-15-30-160; (71755) 1310-934-97h8 1128 **NUT, PLAIN, HEXAGON: EA 2 1310-934-97h8 1128 **NUT, PLAIN, HEXAGON: EA 2 1310-955-652 1129 **SCREW, MACHINE: EA 2 1310-955-621 1130 **WASHER, FLAM: SAME AS All5 1310-933-8118 1131 **WASHER, LOCK: EA 2 1310-933-8118 1131 **WASHER, LOCK: EA 2 1310-933-8118 1131 **WASHER, LOCK: EA 2 1310-933-816 1131 **NUT, PLAIN, HEXAGON: EA 1 1310-934-9765 1133 **NUT, PLAIN, HEXAGON: EA 1 1310-934-9765 1134 **SCREW, SELF-SEALING: EA 1 1310-935-6772 1135 **WASHER, LOCK: SAME AS ADSOL 1310-933-8120 1136 **WASHER, LOCK: EA 1 1310-933-8120 1136 **WASHER, LOCK: EAME AS ADSOL	(2-F	;310-933-8119	1126 * WASHER, LOCK:	EA	14)-2	2A1H28-4
12-F :310-934-9748 1128 * NUT, PLAIN, HEXAGON: SAME AS All3 12-F :305-054-5652 1129 * SCREW, MACHINE: MS51957-18: (96906) 12-F :310-933-8118 1131 * WASHER, FIAT: SAME AS All5 12-F :3310-933-8118 1131 * WASHER, FLAT: SAME AS All5 12-F :3310-934-9765 1132 * CONNECTOR, RECEPTACLE, ELEC: 10-107123-683 (12143) 12-F :3310-934-9765 1133 * NUT, PLAIN, HEXAGON: MS55650-304; (96906) 12-F :3305-855-2991 1134 * SCREW, SELF-SEALING: R10-32X3-4: (02310) 12-F :3310-595-6772 1135 * WASHER, LOCK: SAME AS AO5OJ 12-F :3310-933-8120 1136 * WASHER, LOCK: SAME AS AO5OK EA 4 1 1 1 1 1 1 1 1 1 2 16 8 9-2 2A1H13-4 2A1H37-2 2A1H17-2 2A1H17-2 2A1H17-2 2A1H17-2 2A1H17-2 2A1H17-2 2A1H13-4 3-2 2A1H13-4 3-2 2A1H13-4 2-2 2A1H3-4 3-2 2	?F	;935 - 901-7008	1127 D CONNECTOR, RECEPTACLE, ELEC:	EA	1	1	1	1	1	1	1	5	2		2AlJ5
C2-F	(2-F	;310-934-9748	1128 * NUT, PLAIN, HEXAGON:	EA	2									1-2	2AlH37-2
C2-F	(2-F	305-054-5652	129 * SCREW, MACHINE:	EA	2) –2	2A1H42-2
1310-933-8118 131 * WASHER, LOCK: SAME AS A116 EA 2	(2-F	;310-595 - 6211	1130 * WASHER, FLAT:	EA	2									3- 2	2A1H2-2
P-F	(2-F	;310-933-8118	1131 * WASHER , LOCK:	EA	2)- 2	2A1H17-2
Factor	?F	i935 - 683-2470	1132 D CONNECTOR, RECEPTACLE , ELEC :	EA	1	N	*	*	*	*	,	5	2	9-2	2AlJ3
P—F ;305-855-2991 1134* SCREW, SELF-SEALING: EA 4 1 1 1 * 1 1 16 8 9-2 2A1H57-4 R10-32X3-4; (02310) K2-F ;310-595-6772 1135 * WASHER, LOCK: EA 4 9-2 2A1H13-4 SAME AS A050J K2-F ;310-933-8120 1136* WASHER, LOCK: EA 4 9-2 2A1H32-4	(2-F	5 310- 934-9765	1133 * NUT, PLAIN, HEXAGON:	EA	4									9-2	2AlH41-4
K2-F 5310-595-6772 1135 WASHER, LOCK: SAME AS A050J K2-F 5310-933-8120 1136* WASHER, LOCK: SAME AS A050K EA 4 9-2 2A1H13-4 9-2 2A1H32-4	PF	3305-855-2991	A134* SCREW, SELF-SEALING:	ËA	4	*	1	נ	*	1	1	16	8	9-2	2A1H57-4
K2-F 5310-933-8120 1136* WASHER, LOCK: EA 4 9-2 2A1H32-4	K2-F	5310-595 - 6772	1135 * WASHER , LOCK :	EA	14									9-2	2A1H13-4
	K2-F	5310-933 - 8120	1136* WASHER , LOCK:	EA	4									9-2	2A1H32-4
			AUCUA BA BIMAB												
	R-10								L _				l		

B-10

	(2)	[3]				(6)		(7)			_		ENANCE (CONTINUED)		
SMR CODE	FEDERAL STOCK	(3) DESCRIPTION		UNIT OF	(5) QTY INC IN	30-D	AY DS I			AY GS ALLOWA		ALW PER	(9) DEPOT MAINT	(a) (b)	
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21 - 50	(c) 51-100	(a) 1-20	(b) 21 - 50	(c) 5 1-100	EQUIP CNTGCY	ALWPER 100 FOUIP	FIG NO.	ITEM NÓ. OR REFERENCE DES I GNATI ON
X2-0	5935-615-2305	A137 D COVER, ELECTRICAL CONNECTOR: MS17349N28B; (96906)		EA	1									9-2	2AlMP9
X2-0	5305-054-6652	A138 * SCREW, MACHINE: MS51957-28; (96906)		EA	1]]			9-2	2A1H44-2
X2-0	5310-722-5998	Al39 * WASHER, FLAT: SAME AS A024		EA	1									9-2	2AlH4-2
X2-0	5310-929-6395	Allo * Washer , LOCK : SAME AS A025		EA	1									9-2	2A1H2O-2
X2 - 0	5935-581-2889	A141 D COVER, ELECTRICAL CONNECTOR: MS25043-32C; (96906)		EA	1									9 - 2	2AlMPl1
X2 - 0	5935-500-5008	A142 D COVER, ELECTRICAL CONNECTOR: MS25043-18C; (96906)		EA	1									9-2	2AlMP10
X2-0	5305-054-6652	A143* SCREW, MACHINE: SAME AS A138		EA	1									9-2	2A1H44-2
X2-0	5310-722-5998	Al44 * Washer, Flat: SAME AS A024		EA	1									9 - 2	2A1H4-2
K2=0	5310-929-6395	A145 * WASHER, LOCK: SAME AS A025		EA	1									9 - 2	2A1H2O-2
PF	5330-143-7626	A146 D GASKET, CONNECTOR: 1127018-1; (12705)		EA	1	*	*	1	*	*	1	10	14	9-2	2AlMP4
PF	5330-143-7662	Al47 D GASKET , CONNECTOR : 1127019-1; (12705)		EA	1	*	1	1	*	1	1	16	8	9-2	2AlMP5
PF	5330-143-7662	A148 D GASKET , CONNECTOR : SAME AS A147		EA	1	REF	REF	REF	REF	REF	REF	REF			2AlmP6
PF	5330-143-7662	A149 D GASKET, CONNECTOR: SAME AS A147		EA	1	REF	REF	REF	REF	REF	REF	REF			2AlMP7
PF	5855-133-9249	A150 D GASKET , METER : 1126970-1; (12705)		EA	1	*	*	*	*	*	*	5			2AlMP2
(F		A151 D HOUSING, CONTROL SUBASSEMBLY: 1126951-3; (12705)		EA	1										2AlAl
(2-F	5340-995-6873	A152 E INSERT, SCREW THREAD: T62L57; (03038)		EA	13										2A1A1MP1-13
(2-F	5340-027-5737	A153 E INSERT, SCREW THREAD: TO2L57; (03038)		EA	2										2AlalMP2-14
(2-H		A154 E NUT, BLIND RIVET: SS6B160; (03481)		EA	1										2A1A1MP28
(2-H		Al55 E NUT, BLIND RIVET: SAME AS Al54		EA	1										2AlalMP29
(2-H	5330-060-9601	A156 E PACKING WITH RETAINER: NAS1598C08R; (80205)		EA	1										2AlAlMP30
(2-H	5330-060-9601	A157 E PACKING WITH RETAINER: SAME AS A156		EA	1										2AlAlMP31
?F	6210-176-4928	A158 D HOUSING, INDICATOR, LIGHT: LH89-1; (25072)		EA	1	*	1	2	*	1	1	19			2AlMP27
?F	6210-176-4928	Al59 D HOUSING, INDICATOR, LIGHT: SAME AS Al58		EA	1	REF	REF	REF	REF	REF	REF	REF			2AlmP28
?F	6210-176-4928	Al60 D HOUSING , INDICATOR , LIGHT: SAME AS A158		ΕA	1	REF	REF	REF	REF	REF	REF	REF			2AlMP29
?0	5355-994-3435	A161 D KNOB: MS91528-1E2B; (96906)		EA	1	*	*		*		*	5			2AlMP15

7.1		· Dilleo			, 021		001			, ,,	DEPUT MAINTENANCE (Continued),				
(1) SMR CODE	(2) Federal Stock Number	(3) DESCRIPTION		(4) UNIT OF MEAS	(5) QTY INC I UNI	30-D	(6) Ay DS 1 Allowai	MAINT NCE	30- D	(7) AY GS ALLOW	INT	(8) 1 YR ALW PER 100	(9) DEPOT MAINT ALWPER	(a)	(10) ILLUSTRATIONS (b) ITEM NO. OR
	HOUSEK	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE		5114.4	(a) 1-20	21-5	(c) i1-100	(a) 1-20	(b) 21-5	() ()	EQUIP CNTGCY	100	FIG NO.	REFERENCE DESIGNATION
										. •					
0	5355-556-0145	A162 D KNOB: MS91528-1K2B; (96906)		EA	1	*	*	*	*	*	*	5	2	9-2	2AlMPl4
0	6240-851-4352	Al63 D LAMP, INCANDESCENT: MS25237-330; (96906)		EA	1	*	1	2	*	1	1	19	10	9-2	2AlDS3
0	6240-155-7836	A164 D LAMP, INCANDESCENT: MS25237-327; (96906)		EA	1	1	3	5	1	1	1	59	40	9 - 2	2AlDS1
 0	6240-155-7836	A165 D LAMP, INCANDESCENT: SAME AS A164		EA	1	REF	REF	REF	REF	REF	EF	REF	REF	9 - 2	2AlDS2
0	6210-176-4955	Al66 D LENS, INDICATOR LIGHT: LC35GT2; (25072)		EA	1	*	*	1	*	*	1	10	14	9-2	2AlMP16
0	6210-176-4954	Al67 D LENS, INDICATOR LIGHT: LC35RT2; (25072)		EA	1	*	*	1	*	*	1	10	4	9–2	2AlMP17
0	6210-176-4956	Al68 D LENS, INDICATOR LIGHT: LC35WT2; (25072)		EA	1	#	*	*	*	*	*	5	2	9-2	2AlMP18
2-F	5940-999-7091	A169 D LINK, TERMINAL CONNECTING: 422-13-11-026; (71785)		EA	1									9-2	2AlMP2l
2-F	5940-999-7091	Al70 D LINK, TERMINAL CONNECTING: SAME AS A169		EA	1									9-2	2AlMP22
2-F	5305-054-5647	Al70A * SCREW, MACHINE: MS51957-13; (96906)		EA	14										2AlmP26
I-F		Al71D MARKER, IDENTIFICATION : 363-11-10-010; (71785)		EA	1										2AlMP23
I-F		A172 D MARKER , IDENTIFICATION : 363-11-23-010 ; (71785)		EA	1									9-2	2AlMP24
I-F		A173 D MARKER, IDENTIFICATION: 366-11-03-011; (71785)		EA	1									9-2	2AlMP25
F	6645-566-0720	Al74 D METER, TIME TOTALIZING: M5601; (74400)		EA	1			1	*	1			5	9-2	SWIWI
		A175D													
		A176D													
?-F	5330-574-6704	A177 D PACKING WITH RETAINER: 32-341; (27191)		EA	1									9-2	2AlMP19
2-F	5330-574-6704	A178 D PACKING WITH RETAINER : SAME AS A177		EA	1									9-2	2AlMP20
F		Al79 D RELAY, ARMATURE: 1126521; (12705)		EA	1		1	2	1	1	1	19	10	9-2	2ALK2
}-F	5310-934-9759	Al80* NUT, PLAIN, HEXAGON: SAME AS Al18		EA	3									9-2	2A1H58-3
2-F	5310-880-5978	Al81 * WASHER , FLAT : SAME AS A019		EA	3									9-2	2A1H59-3
2-F	5310-933-8119	A182 * WASHER , LOCK : SAME AS A020		EA	3									9-2	2A1H60-3
F		A183 D RELAY, ARMATURE : SAME AS A179		EA	1		REF	REF	REF	REF	REF	REF	REF	9 - 2	2A1K3
}-F	5310-934-9759	A184*NUT, PLAIN, HEXAGON : SAME ASAL18		EA	3									9-2	2AlH40-3
}-F	5310-880-5978	Al85* WASHER , FLAT : SAME AS A019		EA	3									9-2	2A1H12-3
D 12					l					L					

-	(2) FEDERAL	(3) DESCRIPTION	(4) (5) (6) (30-DAY GS M						30-DAY GS MAINT			30-DAY GS MAINT		30-DAY GS MAINT		30-DAY GS MAINT		(9) €POT AINT		(10) ILLUSTRATIONS	
3DC	STOCK NUMBER	USABLE ON	OF MEAS	INC IN UNIT	(a)			A	LLOWAN	CE	LW PI 100 EQUI	LWPER 100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE							
_		REFERENCE NUMBER & MFR. CODE CODE			1-20			-	(b) 21 - 50	51 <u>-10</u>	<u>NŤG(</u>	QUIP	No.	DESIGNATION							
}-F	5310-933-8119	A186 * WASHER, LOCK: SAME AS A020	EA	3									9-2	2A1H31-3							
. - F	5945-257-0317	A187 D RELAY, SOLENOID: 7064-758; (35344)	EA	1	1			1	1	1	19	10	9-2	2A1K1							
!-F	5305-059-3656	Al88* BCREW, MACHINE: MS51958-60; (96906)	EA	2									9-2	2A1H49-2							
!-F	5310-595-6772	A189* WASHER , FLAT : SAME AS A050J	EA	2									9–2	2A1H14-2							
}-F	5310-933-8120	Algo * Washer , Lock: SAME AS A050K	EA	2									9 - 2	2A1H33-2							
Н		A191 D SHIELD ASSEMBLY , SAFETY , CONTROL: 1126571-1 ; (12705)	EA	1									9-2	2AlA4							
?-F	5305-225-6400	A192 * SCREW, MACHINE: MS24693C3; (96906)	EA	2									9-2	2A1H51-2							
- - D		A193 E MARKER, INSTRUCTION: 1126572-1; (12705)	EΑ	1								'		2AlA4MP4							
L-H		A194 E SHIELD, SAFETY: 1126571-3; (12705)	EA	1										2A1A4MP1							
I-F		A195 E SPACER , PLATE : 1126571-5 ; (12705)	EA	1										2AlA4MP2							
I-F		A196 E SPACER , PLATE : SAME AS A195	EA	1										2AlA4MP3							
?-F	5940-113-8179	Al97 D TERMINAL , LUG : MS25036-107 ; (96906)	EA	1										2AlEl01							
2-F	5305-054-6652	Al98 * SCREW, PAN HEAD: SAME AS Al38	EA	1										2A1H61-1							
?-F	5310-929-6395	Al99* WASHER , LOCK: SAME AS A025	EA	1										2A1H62-1							
2-F	5310-722-5998	A200* WASHER , FLAT : SAME AS A024	EA	1										2A1H63-1							
F	5930-177-2757	A201 D SWITCH, ROTARY: v71074nsR05; (31356)	EA	1	1			1	1	1	12	5	9-2	2A1S4							
F	5930-177-2758	A202 D SWITCH, ROTARY: V74022NSR05; (31356)	EA	1	1			1	1	1	12	5	9-2	2AlSl							
F	5930-682-0757	A203 D SWITCH, TOGGLE , 1P2T : MS90310-311 ; (96906)	EA	1	1			1	1	1	19	10	9-2	2A1S3							
F	5930-126-1220	A204 D SWITCH, TOGGLE, 4P3T: 8906KL626; (27191)	EA	1	1			1	1	1	19	10	9-2	2A1S2							
2 -F		A205 * WASHER, FLAT: 5710-96-63; (86928)	EA	1										2A152MP1							
		A206D																			
		A207D	ļ]	1											
		A208D																			
2 - F	5940-204-8966	A209 D TERMINAL, LUG: MS25036-102; (96906)	EA	60										2A1E13-E72							
X2-F	5940-143-4771	A210 D TERMINAL, LUG: MS25036-103; (96906)	EA	4										2A1E73-E76							

(1) SMR	(2) FEDERAL	(3) Description		(4) UNIT	(5) QTY	30-D	(6) Ay DS 1	TAIAN	30-D	(7) Ay GS I		(8) 1 YR ALW PER 100			(10) ILLUSTRATIONS
CODE	STOCK Number	US REFERENCE NUMBER & MFR. CODE	ABLE ON	OF MEAS	INC IN UNIT	(a)	(b)	(c)		ALLOWA	NCE (c)	100 EQUIP CNTGCY	ALWPER 100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE
		REFERENCE HOPDER & PIERS CODE	CODE			1-20	21-50	51-100	1-20	21-50	51-100	CNIGUT	EQUIP		<u>DESIGNATION</u>
X2-F	5940-283-5280	A211 D TERMINAL, LUG: MS25036-106;(96906)		EA	14										2A1E77-E90
X2-F	5940-143-4780	A212DTERMINAL, LUG : MS25036-108; (96906)		EA	2										2A1E91-E92
X2-F	5940-143-5284	A213 D TERMINAL, LUG: MS25036-115; (96906)		EA	8										2AlE93-E100
K2-F	5940-117-1024	A214 D TERMINAL BOARD: 356-11-03-001;(71785)		EA	1									9 - 2	2AlTB1
X2-F	5305-057-0510	A215 * SCREW, MACHINE: M851957-33; (96906)		EA	l ₄									9-2	2A1H43-4
K2-F	5310-722-5998	A216 * WASHER , FLAT : SAME AS A024		EA	14									9 – 2	2AlH7-4
K2-F	5310 - 929-6395	A217 * WASHER , LOCK: SAME AS A025		EA	14									9-2	2A1H25-4
K2-F	5310-933-8120	A218 * WASHER, LOCK : SAME AS A050K		EA	6										2A1H34-6
K2-F	5940-229-9669	A219 D TERMINAL BOARD: 353-11-10-001; (71785)		EA	1									9-2	2Altb3
K2-F	5305-054-6655	A220 * SCREW, MACHINE : MS51957-31;(96906)		EA	14									9-2	2A1H46-4
(2-F	5310-722-5998	A221 * WASHER, FLAT: SAME AS A024		EA	14									9 - 2	2A1H5-4
(2 - F	5310-929-6395	A222 * WASHER, LOCK: SAME AS A025		EA	14									9-2	2A1H21-4
(2-F	5310-929-6395	A223 * WASHER, LOCK: SAME AS A025		EA	20									9-2	2A1H22-20
(2-F	5940-143-4833	A224D TERMINAL BOARD: 353-11-23-001; (71785)		EA	1									9-2	2AlTB2
(2-F	5305-05 4-6655	A225 * SCREW, MACHINE: SAME AS A220		EA	8									9–2	2A1H47-8
(2-F	5310-773-7624	A226 * WASHER , FLAT : NAS620C6; (80205)		EA	6									9-2	2A1H6-8
(2-F	5310-929-6395	A227 * WASHER, LOCK: SAME AS A025		EA	8									9-2	2A1H23-8
(2 - F	5310-929-6395	A228 * WASHER, LOCK: SAME AS A025		EA	42										2A1H24-42
(2 - F	5310 - 924-5968	A229 D WASHER, KEY: MS25081-1; (96906)		EA	1									9-2	2A1MP12
(2-F	5310-924-5968	A230 D WASHER, KEY: SAME AS A229		EA	1									9-2	2AlMP13
?F	5961-722-1480	A230A D SEMICONDUCTOR DEVICE , DIODE : SAME AS Aloo		EA	1	*	*	*	*	*	*	5	2	9-2	2AlCR11
`F	8030-081-2340	A230B * COMPOUND , SEAL: SAME AS A069A		PT	1	REF	REF	REF	REF	REF	REF	REF	REF		2AlMP30-1
:2-F		A230C D WIRE, ELECTRICAL: MILW16878TYPEE22AWG; (81349)		FT	2										2AlWl
:2 - F		A230E D WIRE, ELECTRICAL: MILW16878TYPEE16AWG; (81349)		FT	2										2A1W2
2-F		A230F D WIRE, ELECTRICAL: MILW16878TYPEE8AWG; (81349)		FT	2										2AlW3
B-14															

TM11-5855-217-35

/21	SECTI ON REPAIR PARTS FOR DIRECT			,	(6)								(10)
(2) FEDERAL STOCK	DESCRIPTION	UNIT OF	(5) QTY NC II		AY DS I		30-W	(7) N GS A LOWA	INT	(8) YR .W PER	(9) EPOT AINT		ILLUSTRATIONS
NUMBER	REFERENCE NUMBER & MFR, CODE CODE	MEAS	NIT	(a) 1-2()	(b) 21-50		(a) 1-20	_	(c) -10	100 QUID ITGCV	LWPER 100 QUIP	Y0.	ITEM NO. OR REFERENCE USIGNATION
						1							
	A230G D TIES , CABLE : TY24M; (59730)	EA	2			1	la 1						2AlMP31
	A230H D TIES, CABLE: TY23M; (59730)	EA	2										2AlMP32
855-134-0	27 4231 (GASKET , CONTROL : 1126941-1 ; (12705)	EA	1						1	12	5	1-2	2MP2
	A232 c PLATE, IDENTIFICATION: 1126985-2; (12705)	EA	1						H,			} - 2	2MP3
305-175-3	00 A233 • • SCREN, DRIVE(MS21318-14; (96906)	EA	4									1-2	2H2-4
	A234 (] PLATE, MOUNTING, CONTROL: 1126940-3; (12705)	EA	1								7	J-2	2MP1
305-071-1	23 A235 • • • • • • • • • • • • • • • • • • •	EA	12)-2	2H1-12
855-135-0	14 1236 B CONTROL . SCHLT SET C-7906 /VSS-3 : 1126834-1; (12705)	EA	11				1	1	1	2 2	12		3
305-983-6	51 1237 • 100+ 5 18 5 SOCKET HEAD 9 MS16998-27; (96906)	EA	4			l	*	1	1	16	8		H2-4
31 o-721-	A238 * WASHER, LOCK: MS3571 0-1-7: (96906)	EA	4			ı	*	1	1	16	8		Н3-4
935-721-0	239 C CONNECTOR , RECEPTACLE , ELEC : MS3102R18-1F , (96906)	EA	1	*	*	*	**		*	5	2	1-6	3J1
305-054-5		EA	4									t-6	3H4-4
310-933-8	L8 L241 • WASHER , LOCK: SAME AS All6	EA	4						5) – 6	3Н5-4
310-595-6	25 1242 • WASHER, FLAT: AN960C4L; (88044)	EA	4									ì-6	3H2-4
330-828-4	19 1243 *PACKING WITH RETAINER: NAS1598CO4R; (80205)	EA	4) - 6	3H7-4
330-143-7	944 (GASKET, CONNECTOR: SAME AS ~1.46	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	1-6	3MP4
330-134-3	07 1245 CGASKET, PLATE , MOUNTING: 1126919-1; (12705)	EA	1	*	1	1		1	1	12	5	1-6	3MP3
	1246 (HOUSING, CONTROL: 1126922-1; (12705)	EA	1									1-6	3MP1
210-176-4	28 L247 C ROUSING, INDICATOR LIGHT: SAME AS AL 58	EA	1	REF	REF	REF	REF	REF	REF	3EF	REF	1-6	3MP101
210-176-4	28 L248 C HOUSING, INDICATOR LIGHT: SAME AS A158	EA	1	REF	REF	REM	REF	REF	REF	ЗЕF	REF	1–6	3MP11
240-155-7	36 1249 C LAMP , INCANDESCENT : SAME AS A164	EA	1	REF	REF	REF	REF	REF	REF	3EF	REF	r-6	3DS1
240-155-7	36 1250 C LAMP INCANDESCENT: SAME AS A164	EA	1	REF	REF	REF	REF	REF	REF	ЗЕF	REF	r-6	3DS2
210-176-4955	1251 C LENS , INDICATOR LIGHT : SAME AS A166	EA	1	REF	REF	REF	REF	REF	REF	şef	REF	1-6	3MP8
210- 176- 49		EA	1	REF	REF	REF	REF	REF	REF	}EF	REF	1-6	3MP7
330-806-87	9 1253 C PACKING WITH RETAINER: MS25196-14 (96906)	EA	1	8								-6	3MP5
						į,							

سَنِيت ،		CTION II REPAIR Parts for direct			ENE		SUPP	UKI.		DEP			NAN	ICE (Continued)
(1 SM COD	(2) FEDERAL STOCK	DESCRIPTION	JNIT OF	(5) DTY (C.I		(6) Ay DS I Allowai		30-	(7) GS M LOWA	IAI NT NCE	(8) YR LN PE 100	(9) EPO IAIN	(a) (i	ILLUSTRATIONS (b)
_	NUMBER	REFERENCE NUMBER & MFR. CODE USABLE OF CODE	1E AS	INIT	(a) 1-2((b)	<u> </u>	(a) -2((b) 1-5	<u> </u>	100 100 100 100 100 100 100 100 100 100	TWPE 100 100 100 100 100 100 100 100 100 10	HI É	(b) ITEM NO. OR REFERENCE DESIGNATION
	[_			
(2-F	5330-806-8769	A254 C PACKING WITH RETAINER: SAME AS A253	EΑ	1									1-6	3MP6
6D-F	!	A255 C PLATE, IDENTIFICATION: 1126985-1; (12705)	EA	1									1-6	3MP9
(2-F	5305-253-5609	A256 * SCREW, DRIVE: MS21318-13; (96906)	EA	14									> -6	зн8-4
Œ-F	!	A257 C PLATE , MOUNTING , CONTROL : 1126921-1 ; (12705)	EA	1									>- 6	3MP2
(2-F	5305-050-9236	A258 * SCREW, MACHINE: MS51957-70; (96906)	EA	6									3– 6	знз-6
(2-F	5310-167-0801	A259 * WASHER , FLAT : AM960Cl0 ; (88044)	EA	6									}- 6	3HT-6
(2-F	5310-933-8120	A260 * WASHER , LOCK : SAME AS A050K	EA	6									} -6	зн6-6
F	5930-682-0757	A261 C SWITCH, TOGGLE 1P2T: SAME AS A203	EA	1	REF	REF	ref	REF	REF	REF	REF	REF	}- 6	3S2
?F	5930-126-1220	A262 C SWITCH, TOGGLE 4P3T : SAME AS A204	EA	1	REF	REF	ref	REF	REF	REF	REF	REF	7- 6	351
(2-F	5940-813-0698	A263 C TERMINAL , LUG : MS25036-101 ; (96906)	EA	12									;- 6	3E1-E12
?0	5975-123-1527	A264 B COVER, SEARCHLIGHT: 1127001-1; (12705)	EA	1	1	2	3	1	1	1	33	20		MPl
,0	6250-134-1757	A265 B HOLDER, LAMP: 1126904-1; (12705)	EA	1	1	1	1	1	1	1	5	2		MP2
·0·	6230-168-0153	A266 B LAMP AND HOLDER ASSEMBLY: 1122328-1; (12705)	EA	1	21	48	91	5	12	25	095	000		Al
·0	6250-134-1757	A267 C HOLDER, LAMP: SAME AS A265	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		AlmPl
11-0		A268 C LAMP, XENON: 936271; (05301)	EA	1										Aldsi
·0	5855-135-0162	A269 B MOUNT, SEARCHLIGHT: 1122311-1; (12705)	EA	1	1	1	1	1	1	1	5	2		MP2
·0	5305-716-8186	A270 * SCREW, CAP, HEXAGON: MS90726-110; (96906)	EA	4	1	1	1	1	1	1	16	8		н7-4
·0	5310-767-9425	A271 * WASHER, FLAT: MS15795-818; (96906)	EA	14	1	1	1	1	1	1	16	8		н6-4
¥O	5340-143-0356	A272 * PIN, QUICK RELEASE: EGF8E24L8; (15291)	EA	3	1	1	2	1	1	1	27	15		н1-3
⊢- 0·	5855-135-0156	A273 B SEARCHLIGHT, IR MX-8272/VSS-3 1126835-3; (12705)	EA	1										1
,0	5340-134-3339	A274 C COUPLING, CLAMP, GROOVED: 1127662-1; (12705)	EA	1	1	1	2	1	1	1	19	10	> −7	1MP6
`F	5330-143-7662	A275 C GASKET , CONNECTOR : SAME AS A147	EA	1	REF	REF	REF	₹EF	₹EF	REF	REF	REF		1MP4
H-F-		1276 C HEAT EXCHANGER , CASE ASSEMBLY : 1126555-1 ; (12705)	EA	1)- 7	1A3
F	;905-134-9846	1277 D BALLAST RESISTOR ASSEMBLY: 1126971-7; (12705)	EA	1	1	1	1	1	1	1	12	5	-13	LA3A1
2-F	5305 - 990 - 6381	1278 * SCREW, CAP, SOCKET HEAD: MS16995-19; (96906)	EA	10									-13	1 A3 H6-10
	<u> </u>													
D 16													-	

(1)	(2) FEDERAL	(3) DESCRIPTION	(4) UNIT	(5) QTY					(7)					(10)
MŘ XDE	STOCK	remo was	OF	QTY INC IN UNIT	30-D	AY DS M ALLOWAN	IAINT ICE	A	y GS M Llowan	AINT CE	(8) ALW PER M 100 A	έζΟΤ AINT LWPERI	(a) FIG	ILLUSTRATIONS (b) ITEM NO OR
	NUMBER	USABLE ON REFERENCE NUMBER & MFR. CODE CODE	nens	ONIT	l (a)	(b) 21 - 50	(c) 51-100	(a) 1-20	(b) 21 - 50	(c) 51-100	EQUIP CNTGCY E	100 QUIP	NO.	ITEM NO. OR REFERENCE DESIGNATION
-F	5310-531-9514	A279 * WASHER , FLAT : AN960C6; (88044)	EA	10]		Ì '				J.	9 - 13	1A3H13-10
-F	5330-229-3666	A280 * WASHER , SEAL : 7500-6; (02697)	EA	10									9 - 13	1A3H9-10
-F		A281 E GASKET, BALLAST RESISTOR: 1127661-1; (12705)	EA	1									9 - 13	1A3A1MP2
-F		A282 E INSULATOR, PLATE: 1127681-3; (12705)	EΑ	1									9 - 13	1A3A1MP1
-F		A283 E RESISTANCE ELEMENT: 1126971-21; (12705)	EA	1									9-13	1A3A1R1
-F	5310-822-0077	A284 * NUT, PLAIN, HEXAGON: MS2508284; (96906)	EA	14									9 - 13	1A3A1H2-4
-₽	5310-934-9748	A285 * NUT, PLAIN, HEXAGON: SAME AS All3	EA	3									9 - 13	1A3A1H8-3
-F	5330-927-0068	A286 * PACKING WITH RETAINER: NAS1598C4R; (80205)	EA	2									9-13	1A3A1H7-2
-F		A287 * SCREW, CAP, SOCKET HEAD: 1126599-1; (12705)	EA	2									9 - 13	1A3A1H1-2
-F	5305-763-7822	A288 * SCREW, MACHINE : MS51959-14; (96906)	EA	3									9 - 13	1A3A1H9-3
-F	5310-045-5210	A289 * WASHER, FLAT: MS15795-910;(96906)	EA	2									9 - 13	1A3A1H3-2
-F	5310-022-8834	A290 * WASHER, LOCK: MS35333-108; (96906)	EA	2									9 – 13	1A3A1H5-2
-F	5310-933-8118	A291 * WASHER, LOCK: SAME AS A116	EA	3									9 - 13	1A3A1H6-3
_F	5310-933-8121	A292 * WASHER, LOCK: MS35338-139; (96906)	EA	2									9-13	1A3A1H4-2
-F		A292AE CAPACITOR ASSEMBLY: 1126594; (12705)	EA	1								5	9 - 13	1A3AlCl
: -F	5310-929-6395	A292B * WASHER, LOCK: SAME AS A025	EA	2									9-13	1A3A1H14-2
: -F	5310-531-9514	A292C* WASHER, FLAT: SAME AS A279	EA	2									9-13	1A3A1H15-2
! - F	5305-054-6660	A292E* SCREW, PAN HEAD: MS51957-36; (96906)	EA	2									9 - 13	1A3A1H16-2
! -F	5855-245-8460	A293 D DUCTING ASSEMBLY HEAT EXCHANGER: 1126546-7; (12705)	EA	1								2	9 - 13	1A3A2
! - F	5340-178-8116	A294 E INSERT SCREW THREAD: MS51830-103L; (96906)	EA	14									9-13	1A3A2MP1-4
. - F		A295 E COVER, REAR: 1126551-1; (12705)	EA	1										1A3A2MP5
?-F		A296 E NUTSERT: 9505-06; (19738)	EA	5									9-13	1A3A2MP6-11
[- F- 8	1	A297 D FAN ASSEMBLY CENTRIFUGAL: 1128364-7; (12705)	EA	1									9-13	1A3A4
! -F	5310-926-1835	A298 * NUT, SELF-LOCKING, HEXAGON: MS21083C3; (96906)	EA	4									9-13	1A3H2-2
! - F	5305-052-6456	A299 * SCREW, CAP, SOCKET HEAD: MS16996-10; (96906)	EA	1									9-13	1A3H7-1
	<u> </u>	<u>-</u>		<u> </u>	Ь—				<u> </u>					B-17

(1) SMR CODE	(2) Federal Stock	DESCRIPTION	(4) NIT OF	(5) }TY iC I	30-D/	(6) NY DS M	AINT CE		(7) Y GS M LLOWAN		(8) YR WPI		(a)	(10) ILLUSTRA (b)
	NUMBER	USABLE ON REFERENCE NUMBER & MFR. CODE CODE	ĒĀS	NIT	(a) -20	(b) 1-5((c) -70	a) -20	b) -50	c) -10	100 QUI ITG(PER	(a) FIG NO.	ITEM NO.OR REFERENCE DESIGNATION
_		-		_	1			4						
(2-F	305-990-6381	1300 * SCREW, CAP, SOCKET HEAD: SAME AS A278	EA	14									?- 13	1A3H8-4
(2-F		\301 * SCREW , MACHINE : MS3213-34; (96906)	EA	4									9 - 13	1A3H19-4
(2-F		\302 * SCREW, SEALING: MS3213-35; (96906)	EA	2									9–13	1A3H2O=2
(2-F	310-167-0801	\303* WASHER, FLAT: SAME AS A259	EA	2									9 - 13	1A3H21-2
(2-F	310-167-0812	1304* WASHER, FLAT: AN960C10L; (88044)	EA	1									9–13	1A3H17-1
(2-F	310-531-9514	1305 * WASHER, FLAT: SAME AS A279	EA	14										1A3H15-4
(2-F	310-929-6395	1306 * WASHER, LOCK: SAME AS A025	EA	7									9–13	1A3H16-4
(2-F	330-229-3666	1307 WASHER , SEAL : SAME AS A280	EA	3										1A3H10-3
?F	330-143-7650	1308 E GASKET, MOUNTING PLATE, MOTOR: 1126564-1; (12705)	EA	1	1	1	1	1	1	1	12		9-14	1A3A4MP4
?F-	105-135-0020	\309 E MOTOR, DIRECT CURRENT: 2050\(\frac{1}{2}\)-5; (02101)	EA	1	1	1	1	1	1	1	12		9 - 14	1A3A4A2
?F	310-177-1162	\310* NUT, SELF-LOCKING, HEXAGON: 50FKC420; (70318)	EA	14	*	1	1	*	1	1	16		9-14	1АЗА4Н3-4
(2-F	305-054-6654	\311 * SCREW, MACHINE: MS51957-30; (96906)	EA	14									9-14	1A3A4H2-4
⟨2 - F	310-515-7449	\312 * WASHER, FLAT: AN960C416L; (88044)	EA	14									9-14	1A3A4H5-4
(2-F	310-05 4-0041	\313 * WASHER, FLAT: NAS620C6L; (80205)	EA	ц									9-14	1A3A4H4-4
?F	105-490-5787	1314 F ARMATURE , MOTOR : 78320 ; (02101)	EA	1	1	1	1	1	1	1	12			1A3A4A2E1
?P	110-554-3979	1315 F BEARING, BALL, ANNULAR: P36KDDF8381; (21335)	EA	1	1	1	1	1	1	1	12			1A3A4A2MP1
?F	110-554-3979	1315A F BEARING, BALL, ANNULAR : SAME AS A315	EA	1	REF	REF	REF	EF	EF	:EF	REF			1A3A4A2MP2
?F	977-9 43-7206	1316 F BUSH, ELECTRICAL CONTACT: 77032; (02101)	EA	1	1	2	3	1	1	1	33			1434442E2
?F	977-943-7206	\316A F BUSH, ELECTRICAL CONTACT: SAME AS A316	EA	1	REF	REF	REF	EF	EF	ŧΕF	REF			la3A4a2E3
?F	330-148-8592	\317 E PACKING, PREFORMED: 524572; (80201)	EA	1	*	1	1	*	1	1	12		9-14	1A3A4MP6
4D		\318 E PLATE ASSEMBLY , MOUNTING , MOTOR: 1126575-1; (12705)	EA	1									9-14	1A3A4A1
K1-D		\319 F PLATE, MOUNTING: 1126577-1; (12705)	EA	1										1A3A4A1MP1
K1-D		1320 F STUD, SELF-LOCKING: FHS1-420-16; (46384)	EA	1									9-14	1A3A ¹ A1MP2
Kl-D		1321 F STUD, SELF-LOCKING: SAME AS A320	EA	1									9-14	1A3A4A1MP3
KI-D		\322 F STUD, SELF-LOCKING: SAME AS A320	EA	1									9-14	1A3A4A1MP4
L			L	1		l .			· ·					

(1)		(3)				(6)			(7)					
ŠMŔ CODE	(2) Federal Stock Number	(3) Description	UNIT OF MEAS	OTY INC IN TINU TINU	30-D/	AY DS M	MAINT NCE		AY GS I	MAINT NCE	(8) 1 YR ALW PER 100	DÈPÓT MAINT ALWEER	(a)	(10) ILLUSTRATIONS (b) ITEM NO. OR
	HOPER	REFERENCE NUMBER & MFR. CODE CODE	TIL AU	0111	(a)	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21 - 50	(C)	EQUIP CNTGCY	100	N/A	REFERENCE DESIGNATION
							Ì							
X1-D		A323 F STUD , SELF-LOCKING : SAME AS A320	EA	1										1A3A4A1MP5
MH		A324 E RING, RETAINING, INSTRUMENT: 1126538-1; (12705)	EA	1									9-14	1A3A4MP1
K2-F	5305-066-7326	A325 * SCREW, MACHINE: MS24693C24; (96906)	EA	3									9-14	1A3A4H1-3
PF	5855-245-8459	A326 E SHROUD ASSEMBLY, BLOWER WHEEL: 1126544-1; (12705)	EA	1	1	1	1	1	1	1	5	2	9-14	1A3A4MP5
K2-F	5940-557-4398	A327 E TERMINAL , LUG : MS25036-148; (96906)	EA	1									9-14	1A3A4E1
K2-F	5940-557-4398	A328 E TERMINAL, LUG: SAME AS A327	EA	1									9-14	1A3A4E2
?F	4140-134-4240	A329 E WHEEL , BLOWER : 1127667-5; (12705)	EA	1			1	1	1	1	12	5	9-14	1A3A4MP2
?F	5305-882-6031	A329A * SCREW, SET: MS51032-62; (96906)	EA	1			1	1	1	1	10	4		1A3A4MP2-H1
?F	4140-134-4242	A330 E WHEEL, BLOWER: 1127667-7; (12705)	EA	1			1	ı	1	1	12	5	9-14	1A3A4MP3
? F	5305-882-6031	A330A* SCREW, SET: SAME AS A329A	EA	1			REF	REF	REF	REF	REF	REF		1A3A4MP3-H1
?F	5330-143-7624	A331 D GASKET , SHROUD , BLOWER WHEEL: 1127660-1 ; (12705)	EA	1			2	1	1	1	19	10	9–13	1A3MP3
?F	5855-245-8465	A332 D PLENUM ASSEMBLY , HEAT EXCHANGER: 1127686-5; (12705)	EA	1			1	1	1	1	5	2	9–13	1A3A3
(2-F	5305-054-6652	A333 * SCREW, MACHINE: SAME AS A138	EA	3									9 –1 3	1A3H5-3
(2 - F	5310-531-9514	A334 * WASHER, FLAT: SAME AS A279	EA	3									9 - 13	1A3H14-3
(1-F	,	A335 E NUT, BLIND RIVET: SS10K80; (03481)	EA	1									9–13	1A3A3MP5
(2-F		A336 E NUT, SELF-LOCKING, CLINCH: SAME AS A057	EA	1									9–13	1A3A3MP1
(2-F	5310-944-7629	A337 E NUT, SELF-LOCKING, CLINCH: SAME AS A057	EA	1									9 - 13	1A3A3MP2
(2 -F	5310-944-7629	A338 E NUT, SELF-LOCKING, CLINCH: SAME AS A057	EA	1									9 13	1A3A3MP3
a-F		A339 E PLENUM: 1127686-7; (12705)	EA	1										1A3A3MP4
?F	5330-143-7706	A340 D SEAL, RUBBER SPCL SHAPED SECTION: 1126589-1; (12705)	EA				2	1	1	1	19	10	9-13	1A3MP4
?F	8040-828-7385	A340A* ADHESIVE: RTV103;(01139)	PT	1			1	1	ı	1	5	2		1A3MP6-1
(2-F		A340B D PLATE, BEARING: 1126517-1; (12705)	EΑ											1A3MP5
1H–F		A341 D SHIM: 1126547-1; (12705)	EA	1									9 - 13	1A3MP2
(2-F		A342 D STRAP, RETAINING:	EA	1									9–13	1A3MP1
(2-F	5305-054-5648	1471; (83330) A343 * SCREW, MACHINE:	EA	1									9–13	1A3H4-1
		MS51957-14; (96906)												
]											
<u> </u>														

(1)	191	REPAIR PARTS FOR DIRECT											T	,
CODE	(2) Federal Stock Number	DESCRIPTION	JNI OF	QT) QT) VC INI		(6) AY DS I ALLOWA	MAINT NCE		(7) Ay GS Allowa		<u>6</u> × 8)	(9) IAIN (9)	(a FI	(10) ILLUSTRATIONS (b)
	HONDER	REFERENCE NUMBER & MFR. CODE CODE	ÆÆ	INI	(a !-2	(b)	<u> </u>	(a 1-2	<u> </u>	ΞS	35	100 QUI	NO	ITEM NO. OR REFERENCE DESIGNATION
X2-F	5310-632-672	A344 * WASHER , FLAT:	EA	1									9 - 1	1A3H12-1
X2-F		AN960C4; (88044) A345 D TERMINAL BOARD:	EA	1									9 - 1	1A3TB3
X2-F	5305-054-565	352-15-02-001; (71785) A346 * SCREW, MACHINE:	EA	2									9-1	1A3H3-2
X2-F		SAME AS A129 A347 * WASHER , FLAT :	EA	2									9 - 1	1A3H11-2
P2-F-8	5855-134-056	NAS620C4; (80205) A348 C HOUSING, SEARCHLIGHT SUBASSEMBLY:	EA	1				2	2	2	5	2	9-7	1A1
PD	5340-134-349	1126552-1; (12705) A349 D CATCH, CLAMPING:	EΑ	1							19	10	9-7	1AlMP2
PD	5340-134-349:	ZPZ045; (98003) A350 D CATCH, CLAMPING:	EΑ	1							₹EF	REF	9-7	lalmp3
PD	5340-134-349	SAME AS A349 A351 D CATCH, CLAMPING: SAME AS A349	EA	1							₹EF	₹EF	9-7	LA1MP4
PD	5340-134-349:	A352 D CATCH, CLAMPING : SAME AS A349	EA	1							ŒF	≀EF	9-7	LA1MP5
PD	5340-134-349:	A353 D CATCH, CLAMPING: SAME AS A349	EA	1							ŒF	≀E F	9-7	lalmp6
MD		A354 D CATCH, CLAMPING: 1126596-3; (12705)	EA	1									9-7	LA1MP13
PD	5340-134-3490	A355 D CATCH, CLAMPING: 51L51-2AA; (71286)	EA	1							5	2	9-7	LA1MP1
PD	;340-134-3485	A356 D HANDLE, BAIL: 955LS2RG; (98003)	EA	1							10	ц		:AlmP7
PD	;340-134-3485	A357 D HANDLE , BAIL : SAME AS A356	EA	1		-					EF	EF		MLAIM
X2-F	;340-678-3309	A358 D INSERT, SCREW THREAD: MS21209F8-15; (96906)	EA	4									9-7	.Almp9-4
D		A359 C PLATE, IDENTIFICATION: 1126985-3; (12705)	EA	1									9-7	.MP3
X2-F		A360 * RIVET , SELF-SEALING : AD42AH ; (07707)	EA	4									9-7	.н7-4
MD-F		A361 C PLATE INSTRUCTION: 1122403-1; (12705)	EA	1									9-7	MP2
X2-F		A362 * RIVET, SELF-SEALING: SAME AS A360	EA	h									9-7	.н6-4
MD-F		A363 C PLATE , INSTRUCTION: 1122404-1; (12705)	EA	1									9-7	MP1
X2-F		A364 * RIVET, SELF-SEALING: SAME ASA360	EA	4									9-7	Н5-4
PF	330-143-7718	A365 C SEAL, RUBBER CHANNEL: 1128350-1; (12705)	EA	1	1	1	2	*	1	1	19	10	9-7	MP7
XF-8		A366C SUPPORT ASSEMBLY, SEARCHLIGHT: 1122360-3; (12705)	EA	1									9-7	A2
x2_f		A367* SCREW, CAP, HEXAGON HEAD: MS90726-58; (96906)	EA	4									9-7	H1-4
X2-F	310-773-7618	A368* WASHER , FLAT : MS15795-814 ; (96906)	EA	4									9-7	H2-4
D 66														
B-20													_	

Color	(1) SMR	(2) Federal	(3) DESCRIPTION	(4) UNIT	(5) QTY	30-0/	(6) Ay DS 1			(7) VY GS M		(8) 1 YR	(9) DEPOT		(10) ILLUSTRATIONS
C2-F	CODE		USABLE ON	0F	INC IN		ALLOWA	NCE	- 1	LLOWA	ICE	100	_WPE	(a) FIG	(h)
Marging Marg			REFERENCE NUMBER & MFR. CODE CODE			1-20			1-20	21-50	51 - 100	CNTGCY	EQUIP	NU.	DES IGNATION
TSO-3-8-1 (0697)	₹2 - F	5310-98 4-7042		EA	4									9 - 7	1H4-4
1	(2 - F	5330-874-3744	A370 WASHER , SEAL : 7500-3-8 : (02697)	EA	14									9 - 7	1H3-4
MS.1666-8 (19906)	?F	5855-245-8448	A371 D ADAPTER ASSEMBLY , LAMPHOLDER:	EA	ı	1	1	1	1	1	1	5	2	9 - 8	1A2A2
11-7 ASTA E INSERT, SCHEN THEMAD: 7- ASTA E INSERT, CARRY THEMAD: 12-7 3305-959-1909 AST6 * SCHEN, CAR, SCHEN END: 2-7 3305-959-6107 ASS0* SCHEN, CAR, SCHEN END: 2-7 3305-959-6517 ASS0* SCHEN, CAR, SCHEN END: 2-7 3305-958-6517 ASS0* SCHEN, CAR, SCHEN END: 2-7 3305-958-6517 ASS0* SCHEN, CAR, SCHEN END: 2-7 3305-958-6517 ASS0* SCHEN, CAR, SCHEN END: 2-7 3305-958-6107 ASS0* SCHEN, CAR, SCHEN END: 2-7 3305-958-6107 ASS0* SCHEN, CAR, SCHEN END: 2-7 3305-958-6107 ASS0* SCHEN, CAR, SCHEN END: 2-8 330-938-8120 ASS0* * MARKER FLOCK: 2-9 5310-933-8120 ASS0* * MARKER FLOCK: 2-1 5310-933-8120 ASS0* SCHEN, CAR, SCHEN END: 2-7 5310-935-8120 ASS0* SCHEN, CAR, SCHEN END: 2-7 5310-813-8120 ASS0* * MARKER FLOCK: 2-8 5310-813-8120 ASS0* * MARKER FLOCK: 2-9 5310-813-8120 ASS0* * MARKER FLOCK: 2-1 5310-813-8120 ASS0* SCHEN, CAR, SCHEN END: 2-7 5305-958-8449 ASS0* SCHEN, CAR, SCHEN END: 2-7 5305-958-6556 ASS0* SCHEN, CAR, SCHEN END: 2-7 5305-958-6556 ASS0* SCHEN, CAR, SCHEN END: 2-7 5305-958-6556 ASS0* SCHEN, MCHEN: 2-7 5305-958-6556 ASS0* S	(2-F			EA	1										1A2H95-1
T- A375 D EMARINO, PLAIR, ROD END: EA 1 2-7 5305-959-1909 A376 * GREEK, OLD, SCOREK NEAD: EA 1 2-7 5305-959-1909 A376 * VARHER, PLAN : EA 1 2-7 5310-167-0812 A377* VARHER, PLAN : EA 1 2-7 5310-167-0812 A377* VARHER, PLAN : EA 1 2-7 5310-933-8120 A378 * VARHER, PLAN : EA 1 2-7 5310-933-8120 A378 * VARHER, PLAN : EA 1 2-7 5310-933-8120 A378 * VARHER, PLAN : EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-933-8120 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-813-2812 A380 * CREEK, CAP, SCOREK HEAD: EA 1 2-7 5310-813-2812 A380 * CREEK, CAP, SCOREK HEAD: EA 2 2-7 5310-933-8118 A391 * CREEK, CAP, SCOREK HEAD: EA 2 2-7 5310-933-8118 A391 * VARHER, LOCK: EA 1 2-7 5305-093-5936 G393 * VARHER, LOCK: EA 2 2-7 5310-933-8118 A391 * VARHER, LOCK: EA 1 2-7 5305-093-5936 G393 * VARHER: EA 2 2-7 5310-933-8118 A391 * VARHER, LOCK: EA 1 2-7 5305-093-5936 G393 * VARHER: EAT: EA 2 2-7 5305-093-5936 G393 * VARHER: EA	(1-F		A373 E ADAPTER, LAMPHOLDER: 1126510-3; (12705)	EA	1										1A2A2MP1
### 1783 (78134) 2-F 5305-959-1909 A376 * BOREM, CAF, SOCKET MEAD: M816596-11 (16506) 2-F 5310-167-0812 A377 * MARKER, FLAT: EA 1 2-F 5310-167-0812 A378 * WARKER, FLAT: EA 1 2-F 5310-933-8120 A378 * WARKER, LOCK: EA 1 2-F 5310-933-8120 A378 * WARKER, LOCK: EA 1 2-F 5305-958-6517 A380 * SCREW, CAF, SOCKET MEAD: M81696-12 (16705) 2-F 5310-933-8120 A381 * WARKER, FLAT: EA 1 2-F 5310-933-8120 A382 * WARKER, FLAT: EA 1 2-F 5310-933-8120 A382 * WARKER, FLAT: EA 1 2-F 5310-933-8120 A383 * RING, REFAILING, FILTER: EA 1 1 1 1 1 1 1 1 1 1 5 2 1 1 1 1 5 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1-F			EA	1										1A2A2MP2
2-F 5310-167-0812 A377 MARKER, FLAT: SAME AS A301 EA 1 2-F 5310-93-8120 A378 MARKER, FLAT: SAME AS A301 EA 1 2-F 5310-93-8120 A378 MARKER, FLAT: SAME AS A301 EA 1 2-F 5310-93-8120 A378 SINGLY, LAD SUPPORT: LAD SUPPORT: EA 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T-		A375 D BEARING , PLAIN , ROD END: HFR3; (73134)	EA	1									9-8	1A2MP30
### SAME AS ASON ### SAME ASON ### SA	:2-F	5305-959-1909	A376 * SCREW, CAP, SOCKET HEAD : MS16996-11 i (96906)	EA	1									9-8	1A2H32-1
SACE AS ASSOCIATED SIZE ASSOCIATION SUPPORT: 2-F 5305-958-6517 A380* SCREW, CAP, SOCKET MEAD: 2-F 5310-167-0812 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-93-8120 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-93-8120 A380.* RING: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* RING: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, TACK: SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, SACE AS ASSOCIATION SUPPORT: 2-F 5310-167-0812 A380.* MASKER, SACE AS ASSOCIATION SUPPORT: 2-F 5305-088-5891 A380.* SCREW, MACHINE: 2-F 5310-167-0812 A390.* MASKER, TACM: SACE AS	:2-F	5310-167-0812		EA	1									9-8	145446-1
2-F 5305-958-6517 A380* SCREW, CAP, SOCKET HEAD:	:2-F	5310-933-8120	A378 * WASHER , LOCK: SAME AS A050K	EA	1									9-8	1A2H87-1
2-F 5310-167-0812 A381 * WASHER, FIAT: SAME AS A304 2-F 5310-933-8120 A382 * WASHER, ICK: SAME AS A050K 2-F 5340-799-1336 A383 E RING, RETAINING, FILITER: EA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	'F-R	5855-134-0543		EA	1	1	1	2	1	1	1	19	10	9-8	1A2A10
SAME AS A304 2-F 5310-933-8120 A382 * WASHER, LOCK: SAME AS A050K F 5340-799-1336 A383 F RING, RETAINING, FILTER: L12230-1; (12705) F 8040-145-0450 A384 * ADHESIVE: RTV156; (01139) 2-F 5310-813-2812 A385 F NUT, SELF-LOCKING, CLINCH: K7000-06-9; (75237) F 5855-245-8450 A386 D BLOCK, BEARING ADAPTER: EA 1 1 1 1 1 1 1 5 2 9-8 LAZAIOMF2 F 5305-795-8591 A387 * SCREW, MACHINE: L126505-1; (12705) F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK: EA 1 1 1 1 1 1 1 5 2 9-8 LAZAIOMF2 F 5305-068-5414 A389 * SCREW, CAP, SOCKET HEAD: M516995-11; (96906) F 5310-933-8118 A391 * WASHER, FLAT: SAME AS A344 F 5305-054-5636 A393 * SCREW, MACHINE: EA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:2-F	5305-958-6517	A380* SCREW, CAP, SOCKET HEAD: MS16996-12; (96906)	EA	4									9-8	1A2H28-4
SAME AS A050K F 5340-799-1336 A383 E RING, RETAINING, FILTER:F 8040-145-0450 A384 * ADERSIVE:F 8040-145-0450 A384 * ADERSIVE:F 8040-145-0450 A385 E NUT, SELE-LOKING, CLINCH:F 8040-145-0450 A385 E NUT, SELE-LOKING, CLINCH:F 75310-813-2812 A385 E NUT, SELE-LOKING, CLINCH:F 75855-245-8450 A386 D BLOCK, REARING ADAPTER:F 75855-245-8450 A386 D BLOCK, REARING ADAPTER:F 75305-795-8591 A387* SCREW, MACHINE:F 75305-795-8591 A387* SCREW, MACHINE:F 75855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK:F 75855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK:F 75305-068-5414 A389 * SCREW, CAP, SOCKET HEAD:F 75305-068-5414 A389 * SCREW, CAP, SOCKET HEAD:F 75310-933-8118 A391 * WASHER, LOCK:F 75310-933-8118 A391 * WASHER, LOCK:F 75305-054-5636 A393 * SCREW, MACHINE:	:2-F	5310-167-0812		EA	14									9-8	14544-4
F 8040-145-0450 A384 * ADMESIVE: RTV156; (0139) 2-F 5310-813-2812 A385 E NUT, SELF-LOCKING, CLINCH: KT000-06-9; (75237) F 5855-245-8450 A386 D BLOCK, BEARING ADAPTER: L126505-1; (12705) F 5805-795-8591 A387* SCREW, MACHINE: EA 1 1 1 1 1 1 5 2 9-8 LA2MP1 F 5855-245-8449 A388 D BLOCK ASSEMELY, BEARING CONN LINK: EA 1 1 1 1 1 1 1 5 2 9-8 LA2MP1 F 5855-245-8449 A388 D BLOCK ASSEMELY, BEARING CONN LINK: EA 1 1 1 1 1 1 1 5 2 9-8 LA2MP1 F 5805-068-5414 A389 * SCREW, CAP, SOCKET HEAD: MS16995-11; (12705) 2-F 5310-632-6721 A390* WASHER, FLAT: SAME AS A344 EA 2 SAME AS A3416 A392 E BEARING, SLEEVE: SAME AS A3416 A392 E BEARING, SLEEVE: SAME AS A391 * WASHER, LOCK: SAME AS A3416 A392 E BEARING, SLEEVE: SAME AS A316 LA2A5H1-1 LA2A5H1-1	2-F	5310-933-8120	A382 * WASHER , LOCK : SAME AS A050K	EA	14									9-8	1A2H85-4
2-F 5310-813-2812 A385 E NUT, SELF-LOCKING, CLINCH: KYOOC-06-9: (75237) F 5855-245-8450 A386 D BLOCK, BEARING ADAPTER: EA 1 1 1 1 1 1 1 5 2 9-8 1A2MP1 F 5305-795-8591 A386** SCREW, MACHINE: 1126505-1; (12705) F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK: EA 1 1 1 1 1 1 1 5 2 9-8 1A2H1-1 F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK: EA 1 1 1 1 1 1 1 5 2 9-8 1A2A5 1126535-1; (12705) 2-F 5305-068-5414 A389 * SCREW, CAP, SOCKET HEAD: MSI6995-11; (96906) 2-F 5310-632-6721 A390**WASHER, FLAT: SAME AS A344 2-F 5310-933-8118 A391**WASHER, LOCK: SAME AS A3416 1-F A392 E BEARING, SLEEVE: SAME AS A393 * SCREW, MACHINE: EA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~-F	5340-799-1336	A383 E RING, RETAINING, FILTER: 1122330-1; (12705)	EA	1	1	1	1	1	1	1	13	6	9-8	1A2A1OMP1
F 5855-245-8450 A386 D BLOCK, BEARING ADAPTER: 1126505-1; (12705) F 5305-795-8591 A387* SCREW, MACHINE: 1126509-1; (12705) F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK:F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK:F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK:F 5305-068-5414 A389 * SCREW, CAP, SOCKET HEAD:F 5310-632-6721 A390* WASHER, FLAT:F 5310-933-8118 A391 * WASHER, LOCK:F 5310-933-8118 A391 * WASHER, LOCK:F 5305-054-5636 A393 * SCREW, MACHINE:F 5305-054-5636 A393 * SCREW, MACHINE:F 5305-054-5636 A393 * SCREW, MACHINE:F A1	F	8040-145-0450		oz	1	1	1	1	1	1	1	5	2		1A2A10MP3-1
F 5305-795-8591 A387* SCREW, MACHINE: 1126509-1; (12705) F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK: EA 1 1 1 1 1 1 5 2 9-8 1A2A5 1126535-1; (12705) 2-F 5305-068-5414 A389 * SCREW, CAP, SOCKET HEAD: MS16995-11; (96906) 2-F 5310-632-6721 A390* WASHER, FLAT: SAME AS A344 2-F 5310-933-8118 A391 * WASHER, LOCK: SAME AS A3416 1-F A392 E BEARING, SLEEVE: 517F; (96881) 2-F 5305-054-5636 A393* SCREW, MACHINE: EA 1 1 1 1 1 1 1 1 1 5 2 9-8 1A2H1-1 1 1 1 1 1 1 1 1 1 1 1 5 2 9-8 1A2A5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-F	5310-813-2812	A385 E NUT, SELF-LOCKING, CLINCH: K7000-06-9; (75237)	EA	1									9-8	1A2A10MP2
1126509-1;(12705) F 5855-245-8449 A388 D BLOCK ASSEMBLY, BEARING CONN LINK: EA 1 1 1 1 1 1 1 5 2 9-8 1A2A5 2-F 5305-068-5414 A389 * SCREW, CAP, SOCKET HEAD: MS16995-11;(96906) 2-F 5310-632-6721 A390*WASHER, FLAT: SAME AS A344 2-F 5310-933-8118 A391 * WASHER, LOCK: SAME AS A316 1-F A392 E BEARING, SLEEVE: SLTF;(96881) 2-F 5305-054-5636 [A393*SCREW, MACHINE: EA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F	5855-245-8450		EA	1	1	1	1	1	1	1	5	2	9 - 8	1A2MP1
1126535-1; (12705) 2-F 5305-068-5414 A389 * SCREW, CAP, SOCKET HEAD: MS16995-11; (96906) 2-F 5310-632-6721 A390* WASHER, FLAT: SAME AS A344 2-F 5310-933-8118 A391 * WASHER, LOCK: SAME AS A316 1-F A392 E BEARING, SLEEVE: SLTF; (96881) 2-F 5305-054-5636 [A393* SCREW, MACHINE: EA 1 12245H1-1	F	5305-795-8591		EA	1	1	1	1	1	1	1	5	2	9-8	1A2H1-1
MS16995-11;(96906) 2-F 5310-632-6721 A390*WASHER, FLAT: SAME AS A344 2-F 5310-933-8118 A391 * WASHER, LOCK: SAME AS A116 1-F A392 E BEARING, SLEEVE: 5L7F;(96881) 2-F 5305-054-5636 [A393*SCREW, MACHINE: EA 1 1A2A5MP2	F	5855-245-8449		EA	1	1	1	1	1	1	1	5	2	9 - 8	1A2A5
SAME AS A344 2-F 5310-933-8118 A391 * WASHER, LOCK:	2 - F	5305-068-5414	A389 * SCREW, CAP, SOCKET HEAD: MS16995-11;(96906)	EA	2									9 - 8	1A2H3-2
SAME ASAll6 1-F A392 E BEARING, SLEEVE: EA 1 1-F 5305 -054-5636 [A393 * SCREW, MACHINE: EA 1 1A2A5MP2	2 - F	5310-632-6721		EA	2									9-8	1A2H35-2
5L7F; (96881) 2-F 5305-054-5636 A393*SCREW, MACHINE: EA 1 1A2A5H1-1	2-F	5310-933-8118	A391 * WASHER, LOCK: SAME ASA116	EA	2									9 - 8	1A2H66-2
2-F 5305 -054-5636 A393 * SCREW, MACHINE: MS51957-2;(96906)	1-F		A392 E BEARING, SLEEVE: 5L7F; (96881)	EA	1										1A2A5MP2
	2-F	5305 -054-5636	A393 * SCREW, MACHINE: MS51957-2 ;(96906)	EA	1										1A2A5H1 -1

(1) SMR	(2) Federal	(3) DESCRIPTION		(4)	(5)		(6)			(7)		(8)	(9)		(10) ILLUSTRATIONS
CODE	STOCK NUMBER		SABLE ON	OF MEAS	ÒTÝ INC IN UNIT	- 1	Y DS M	ICE	A	Y GS M	ICE	1 YR ALW PER 100	MAI NI ALWPER	(a) FLG NO.	(b) ITEM NO. QR
		REFERENCE NUMBER & MFR. CODE	CODE			(a) 1-20	(b) 21 - 50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51 - 100	EQUIP CNTGCY	100 EQUIP	NO.	REFERENCE DESI GNATI ON
1-F		A394 E BLOCK, BEARING: 1126535-7; (12705)		EA	1										1A2A5MP1
H-F		A395 D BRACKET , ELECTRICAL SWITCH: 1126568-1; (12705)		EA	ı									9 - 8	1A2MP6
2-F	5305-959-1909	A396 * SCREW, CAP. SOCKET HEAD: SAME AS A376		EA	2									9-8	1A2H33-2
2-F	5310-167-0812	A397 * WASHER, FLAT: SAME AS A304		EA	2										1A2H42-2
2-F	5310-933-8120	A398 * WASHER, LOCK: SAME AS A050K		EA	2										1A2H83 - 2
F-		A399 D BRACKET , LIMITER : 1126582-1 ; (12705)		EA	1									9-8	1A2MP18
2-F	5305-016-8257	A400 SCREW, CAP, SOCKET HEAD: MS16996-39; (96906)		EA	1									9-8	1A2H1-1
2-F	5310-183-4355	A401 * WASHER , FLAT : AN960C616L ; (88044)		EA	1									9 - 8	1A2H97-1
2-F	5310-984-7042	A401A * WASHER , LOCK SPLIT: SAME AS A369		EA	1									9-8	1A2H98-1
F-		A402 D BRACKET , LIMITER : SAME AS A399		EΑ	1									9-8	1A2MP19
2-F	5305-016-8257	A403* SCREW, CAP, SOCKET HEAD: SAME AS A400		EA	1									9–8	1A2H2-1
2-F	5310-183-4355	A404 * WASHER, FLAT : ' SAME AS A401		EA	1									9 - 8	1A2H98-1
H-F		A405 D BRACKET , MOTOR , FILTER : 1126943-1 ; (12705)		EA	1									9 - 8	1A2MP15
2-F	5305-059-3658	A406 * SCREW, MACHING: MS51958-62; (96906)		EA	2									9 - 8	1A2H30-1
2-F	5310-167-0812	A407 * WASHER, FLAT : SAME AS A304		EA	2									9-8	1A2H45-2
2-F	5310-933-8120	A408 WASHER , LOCK : SAME AS A050K		EA	2										1A2H86-2
2-F		A409 D BRACKET ASSY, MOUNT, RESILIENT: 1126590-1; (12705)	:	EA	1									9-8	1A2A3
2-F	5310-250-9477	A410 * NUT, PLAIN, HEXAGON; MS35649-2254; (96906)		EA	8									9-8	1A2H94-8
2-F	5305-988-7615	A411 * SCREW, CAP, SOCKET HEAD : MS16995-51 ; (96906)		EA	žį.									9 - 8	1A2H24-4
2-F	5305-719-5017	A412 * SCREW, MACHINE : MB51959-82; (96906)		EA	14									9–8	1A2H22-4
2-F	5310-764-9564	A413 * WASHER, FLAT: NAS620C4161; (80205)		EA	12									9 - 8	1A2H60-12
2-F	5310-933-8121	A414 * WASHER , LOCK : SAME AS A292		EA	8									9-8	1A2H89-8
2-F		A415 E FASTENER : SF12G6CBB5D ; (12324)		EA	7										1A2A3MP1
2-F	5320-234-1557	A415A E RIVET: M520426A3-6; (96906)		EΑ	ļ										1A2A3H2-4
:2-F	5310-779-6625	A415B E NUT . SELF-LOCKING . PLATE : M821060L3 ; (96906)		EA	2										1A2A3 H3-2
R-22		l													

YIR DE	(2) Federal Stock	(3) DESCRIPTION	(4) UNIT OF	(5) QTY INC I	30-D/	(6) AY DS M ALLOWAN	AINT		(7) NY GS M NLLOWAN	AINT	(8) 1 YR ALW PER 100	(9) Depot Maint	(a)	(10) ILLUSTRATIONS (b)
	NUMBER	USABLE OF REFERENCE NUMBER & MFR. CODE CODE	IMEAC	UNIT	(a) 1-20	(b) !1-5	(c) 1-10((a)	(b)	101	100 EQUIP CNTGCY	100	FIG NO.	ITEM NÓ. OR REFERENCE DESIGNATION
İ		,416D												
		,417D												
		,418D												
		.419D												
		.420D												
	5320-234 - 1556	.421 * RIVET, SOLID: MS20426A3-5; (96906)	EA	2										1A2A3H2 - 2
		1422 D CAPACITOR, FIXED, PAPER DIEL: P323ZND; (00656)	EA	1			1	1	1	1	5	2	9-8	1A2C1
	5340-068-3544	.423 D CLAMP, LOOP: MS9353-04; (96906)	EA	1									9-8	1A2MP40
	5340-068-3544	1424 D CLAMP, LOOP: SAME AS A423	EA	1									9–8	1A2MP41
F	6115-065-8530	.425 D CLAMP, LOOP: TY535M; (59730)	EA	1									9-8	1A2MP33
F	5305-054-6654	.426 * SCREW, MACHINE: SAME AS A311	EA	1									9-8	1A2H9-1
F	5310-773-7624	.427 * WASHER , FLAT : SAME AS A226	EA	1									9 - 8	1A2H59-1
F	5310-929-6395	428 * WASHER , LOCK: SAME AS A025	EA	1									9-8	1A2H83-1
F	6115-065-8530	.429 D CLAMP, LOOP: SAME AS A425	EA	1									9-8	1A2MP34
F	5305-054-6654	1430 * SCREW, MACHINE: SAME AS A311	EA	1									9-8	1A2H8-1
F	5310-773-7624	431* WASHER, FLAT: SAME AS A226	EA	1									9 - -8	1A2H58-1
F	5310-929-6395	1432 * WASHER, LOCK: SAME AS A025	EA	1									9 - 8	1A2H82-1
F	6115-065-8530	433 D CLAMP, LOOP: SAME AS A425	EA	1									9-8	1A2MP53
F	5305-054-6654	1434 * SCREW, MACHINE: SAME AS A311	EA	1									9-8	1A2H19-1
F	5310-773-7624	1435* WASHER , FLAT : SAME AS A226	EA	1									9-8	1A2H57-1
F	5310-929-6395	1436 * WASHER , LOCK: SAME AS A025	EA	1									9 - 8	1A2H81-1
H		1437 D CLAMP, LOOP: 1128312-1; (12705)	EA	1									9 - 8	1A2MP24
F	5305-054-6654	A438 * SCREW , MACHINE : SAME AS A311	EA	1									9-8	1A2H16-1
F	5310-531-9514	A439 * WASHER , FLAT : SAME AS A279	EA	1							 		9-8	1A2H39-1
F	5310-929-6395	A440 * WASHER , LOCK: SAME AS A025	EA	1									9-8	1A2H72-1

(1) SMR	(2) Federal	DESCRIPTION		(4)	(5)		(6)		Γ	(7)				E	(10)
CODE	STOCK NUMBER			OF MEA	OTY ST	30	r Di	IN.	30-D	AY GS ALLOW	MAIN VNCE	(8 Y W O LW O	(9) EPO AIN LWPI	7	ILLUSTRATIONS (b)
		REFERENCE NUMBER & MFR. CODE	ABLE ON CODE		341	<u> </u>	(b 21-	<u>.</u>	(a <u>1-</u> ;	(b 1-	Ĭζ	EQL NT(100 QUI	F.	ITEM NO. OŘ REFERENCE DESIGNATION
:2-F	5340-951-153	A441 D CLIP, SPRING TENSION: SAME AS A027		EΑ	1									9-	1A2MP51
:2-F	5310-680-662	A442 * NUT, PLAIN, HEXAGON: MS25082-1; (96906)		EA	2									9-	1A2H92-2
'2-F	5305-054-6651	A443 * SCREW, MACHINE: SAME AS A311		EA	2									9-	LA2H17-2
2-F	5310-773-7621	A444 * WASHER, FLAT: SAME AS A226		EA	2										LA2H55-2
2-F	5310-929-6395	A445 * WASHER, LOCK: SAME AS A025		EA	2										LA2H79-2
2-F	5340-951-1532	A446 D CLIP, SPRING TENSION: SAME AS A027		EA	1									3- -i	LA2MP52
2 - F	5310-680-6627	A447 * NUT , PLAIN, HEXAGON: SAME AS A442		EA	2) —i	LA2H93-2
2-F	5305 -054-6654	A448 * SCREW, MACHINE : SAME AS A311		EA	2)_	.A2818-2
2-F	5310-773-7624	A449 * WASHER, FLAT: SAME AS A226		EA	2										A2H56-2
2-F	5310-929-6395	A450 * WASHER, LOCK: SAME AS A025		EA	2										.A2H80-2
F'-	5855-245-8451	A451 D BOOSTER STARTER ASSEMBLY: 112655 4-1; (12705)		EA	1	1	2	3	1	1	1	40	25	1{	.A2E4
2-F	5310-934-9765	A452 * NUT, PLAIN , HEXAGON : SAME AS A133		EA	3) - -{	A2H105-3
2-F	5310-167-0812	4452A * WASHER, FLAT: SAME AS A304		EA	3									!_ {	A2H107-3
?-F	5310-933-8120	1452B * WASHER, LOCK: SAME AS AO50K		EA	3										A2H108-3
F	5975-553-7151	1452C D NIPPLE, RUBBER: MS25171-28; (96906)		EA	2	*	*	1	*	*	1	10	14		A2E4MP1
!-F		1452E D WIRE, HIGH VOLTAGE: 1130-21; (04946)		EA	1										A2E4W2
·-F	i855-245-8458	1453 D CONNECTOR LINK, RIGID: 1126534-1; (12705)		EA	1	1	1	1	1	1	1	5	2	- 8	A2MP5
-F	i315-584-6574	.454 * PIN, SPRING: MS171588; (96906)		EA	1	1	1	1	ı	1	1	5	2	-8	A2H106-1
-F	935-817-2679	.455 D CONNECTOR, RECEPTACLE, ELECTRICAL 10-107232-6F; (12143)	L:	EA	1	1	1	1	1	1	1	5	2	-7	A2J1
-F	310-934-9765	.456 * NUT, PLAIN, HEXAGON: SAME AS A133		EA	14									-7	H10-4
-F	305-059-3660	.457 * SCREW, MACHINE:		EA	4									-7	H7-4
-F	310-167-0801	458 * WASHER, FLAT: SAME AS A259		EA	4									-7	18-4
-F	310-933-8120	458A * WASHER, LOCK: SAME AS A050K		EA	4									-8	182-4
-F	820-999-9193	459 * WASHER, SEAL: 7500-10; (02697)		EA	4									-7	19-4
-F	855-135-0143	460 D CRADLE ASSEMBLY, LAMP: 1122337-1; (12705)		ΞA	1	1	1	1	ı	1	1	5	2	-8	12A1
R-24							l l	l	l				l		

B-24

(1) SMR	(2) FEDERAL	(3) DESCRIPTION													(10)
CODE	STOCK NUMBER			UNIT OF MEAS	(5) QTY INC IN UNIT	30-D	AY DS M ALLOWAN	IAINT ICE	30-D/	NY GS 1	MAINT NCE	(8) 1 YR ALW PER 100 EQUIP CNTGCY	MAINT ALWPER	(a) FIG	ILLUSTRATIONS (b) ITEM NO OR
	NOIDER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	12.73	ONZ	(a) 1-20	(ь) 21 - 50	(c) 51-100	(a) 1-20	(ь) 21 - 50	(c) 51 - 100	EQUIP CNTGCY	100 EQUIP	NO.	(b) ITEM NO. OR REFERENCE DES IGNATION
(2-F	5305-054-6654	*SCREW, MACHINE: SAME AS A311													LA2H14-2
(2-F	5310-773-7624	* Washer, Flat: Same as a226					1								LA2H48-2
[2-F	5310-929-6395	* WASHER, LOCK: SAME AS A025													LA2H70-2
11-F		E CRADLE, LAMP: 1122337-3;(12705)													LA2A1MP1
[2-F	5340-558-8826	E INSERT , SCREW THREAD : MS21209C0620 ; (96906)													LA2A1MP2
`F	5855-245-8453	D DEFLECTOR ASSEMBLY WELDED: 1126529 -7; (12705)				1		1	1	1					LA2MP3
:2-F	5340-903-7567	<pre># RING, RETAINING: MS16624-18; (96906)</pre>													.A2H99-1
2-F	5305-959-0379	* SCREW, CAP, SOCKET HEAD : MS16995-10; (96906)													A2H29-1
:2-F	5305-068-5276	<pre># SCREW, CAP, SOCKET HEAD : MS16995-9;(96906)</pre>													.A2H29 - 1
:2-F	5310-632-6721	* Washer , flat : same as a344													.A2H3¼-1
:2-F	5310-933-8118	* WASHER, LOCK: SAME AS All6													.A2H65 - 1
'F	5855-134-0534	D FILTER ASSEMBLY, INFRARED: SCD647000; (80063)				1	j	2	1	1					.A2A8
:1-F		E FILTER SUBASSEMBLY, INFRARED: 1126995-1; (12705)													.A2A8A1
1-F		F FILTER, INFRARED: 1122352-1; (12705)													.A2A8A1FL1
1-F		F PACKING, PREFORMED: 2-230 S613-6; (02697)													.A2A8A1MP1
:1-F		F PACKING, PREFORMED: 2-3325613-6; (02697)													.A2A8A1MP2
:1-F		F PACKING, PREFORMED: 2-145 S613-6; (02697)													A2A8A1MP3
1-F		F PACKING, PREFORMED: 2-144 S613-6; (02697)													.A2A8A1MP4
1-F		F PACKING, PREFORMED: 2-38S613-6; (02697)													A2A8A1MP5
1-F		F PACKING, PREFORMED: 2-378613-6; (02697)													A2A8A1MP6
1 - F		E SLEEVE, FILTER: 1126913-1; (12705)													.A2A8MP1
'2-F-	5855-245-8461	D FOCUS ASSEMBLY, SEARCHLIGHT: 1126530-3; (12705)				*		*	2	2					.A2A4
2-F	5305-958-6517	* SCREW, CAP, SOCKET HEAD: SAME AS A380													A2H27-4
2-F	5310-933-8120	* Washer , Lock : Same as Aosok													.А2Н82-4
2-F	5310-167-0812	* Washer, Flat: Same as A304													A2H41-4
ì															
															R-25

(1) SMR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION		(4) UNIT OF	(5) QTY INC IN		(6) Ay DS M Allowai			(7) Ay GS M Allowai	AI NT	(8) 1 YR ALWPER	(9) DEPOT MAINT ALWPER		(10) ILLUSTRATIONS (b)
	NUMBER	REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	MEAS	UNIT	(a) 1-20	(b) 21 - 50		(a) 1-20	(b) 21-50		EQUIP CNTGCY	100	100	ITEM NO. OR REFERENCE DESIGNATION
[2 - F	3120-324-6424	A485 E BEARING, SLEEVE: FB46-2; (71041)		EA	1									9-11	1A2A4MP11
)F		A485A * LOCTITE: 43; (03355)		EA	1	1	1	1	1	1	1	5	2		1A2A4MP11MP1
[2-F	3120-324-6424	A486 E BEARING, SLEEVE: SAME AS A485		EA	1									9 - 11	1A2A4MP12
'F		A486A * LOCTITE : SAME AS A485A		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		1A2A4MP12MP1-1
(2-F	3120-324-6424	A487 E BEARING , SLEEVE : SAME AS A485		EA	1									9-11	1A2A4MP13
·F		A487A * LOCTITE : BAME AB A485A		EA	1	REF	REF	REF	ref	REF	REF	REF	REF		1A2A4MP13MP1-1
:2-F	3120-324-6424	A488 E BEARING , SLEEVE: SAME AS A485		EA	ı									9-11	1A2A4MP14
'F		A488A *LOCTITE : SAME A8 A485A		EA	1	REF	REF	REF	ref	ref	REF	ref	REF		1A2A4MP14MP1-1
:2-F	3120-324-6424	A489 E BEARING . SLEEVE: SAME AS A485		EA	1									9-11	1A2A4MP15
'F		A489A * LOCTITE : SAME AS A485A		EA	1	REF	ref	ref	ref	REF	REF	REF	REF		1A2A4MP15MP1-1
2-F	3120-324-6424	A490 E BEARING, SLEEVE: SAME AS A485		EA	1									9-11	1A2A4MP16
`F		A490A * LOCTITE: BAME AS A485A		EΑ	ı	REF	REF	REF	REF	REF	REF	REF	REF		1A2A4MP16MP1-1
2-F	3120-324-6424	A491 E BEARING, SLEEVE: SAME AS A485		EA	1									9-11	1A2A4MP17
F		A491A * LOCTITE : SAME AS A485A		EA	1	REF	REF	REF	REF	REF	REF	REF	REF		1A2A4MP17MP1-1
⊊ - ₽		A492 E BRACKET ASSEMBLY, GEAR: 1126515-7; (12705)		EA	1									9 - 11	142441
1-F		A493 F BRACKET ANGLE: 1126515-3; (12705)		EA	1										1A2A4A1MP1
2-F		A494 F INSERT: MS51830-202L; (96906)		EA	1										la2a4a1MP2-1
1-F		A494A F PAD, BRACKET: 1126515-5;(12705)		EA	1										1A2A ¹ A1MP3
F	5855-134-0548	A495 E ECCENTRIC, DEFLECTOR: 1126934-1; (12705)		EA	1	1	1	1	1	1	1	5	2	9 - 11	1A2A4MP1
F	5315-619-1351	A496* PIN, SPRING: MS171500; (96906)		EA	1	1	1	1	1	1	1	5	2	9-11	1A2A4H7-1
2-F	5305-655-9246	A497 * SETSCREW: MS51021-10; (96906)		EA	1									9-11.	1A2A4H11-1
F	5855-245-8462	A498 E ECCENTRIC, FOCUS: 1126511-1; (12705)		EA	1	1	1	ı	1	1	1	5	2	9-11	la2a4mp2
F		A499 * PIN, SPRING: MS171496; (96906)		EA	2	1	ı	1	1	1	1	10	<u>)</u>	9-11	1A2A4H16-2
2-F	5305-800-7261	A500 * SETSCREW: MS51021-9; (96906)		EA	2									9-11	1 A2A 4H14-2
F	5855-245-8463	A501 E GEAR, SPUR: 1126506-1;(12705)		EA	1	1	1	1	1	1	1	5	2	9-11	1A2A4MP7
B-26															

B-26

		CTIONII REPAIR PARTS FORDII		_	, ULN		3UPF	UKI,		DEP				lucui
(1) SMR CODE	(2) FEDERAL STOCK NUMBER	DESCRI PTI ON	(4) UNIT I (1) E ONI MEAS	5) TY : IN	A	(6) Y DS M LLOWAN	CE	P	(7) Y GS P LLOWA	MINT ICE	1 YR ALW PER 100	(9) XEPO VAL N ALWPE	ILLUSTRATIO a) (b) G ITEM NO	
	NUMBER	REFERENCE NUMBER & MFR. CODE CO	E ON I		(a) 1-20	(b) 21 - 50	(3 51 <u>-10</u>	a) -20	(b) 21-50	(c) 51-100	EQUI P CNTGCY	100 EQUII	G ITEM NO D. REFERE DESI GNA	NCE TI ON
							Γ				-			
- F	15-297-0836	A 502 • PIN, SPRING: MS171498; (96906)	EΑ	I	1	1	1	1	1	1	10	4	11 1A2A4H8-1	
-F	55 -245-8464	A 503 E CEAR, Spur: 1126506-3; (12705)	EA	Ш	1	1	1	1	2	1	5	2	·11 1A2A4MP10	
- F	15-297-0836	A 504 • POLS SPRING: SAME AS A502	EA		REF	REF	REF	EF	REF	REF	FEF	EF	·11 1A2A4H9-1	
.F	55-2 45-8466	1,505 E HOUSING ASSEMBLY, FOCUS: 1126591-1; (12705)	3A	1	1	1	1	1	1	1	5	2	11 1424442	
-F		A 506 F ALUMINUM ALLOY ANGLE: 1126591-5; (12705)	3A	1									1A2A4A2MP2	
F	15-291-5471	A507 * P.IN 57976; MS171431; (96906)	EA	1	1	1	1	1	1	1	5	2	1A2A4A2H1-1	l
-F		A508 F HOUSING: 1126591-3; (12705)	EA				-						1A2A4A2MF1	
-F	140-443-5878	1509 P INSERT, SCREW THREAD:	EA	6									LA2A4A2MP3-	-6
-F	05-135-0019	MS51830-102L; (96906) A510 E MOTOR, DIRECT CURRENT: 1126597-1; (12705)	EA	Ш		1	2		1	1	19	10	-11 1A2A4A3	
-F	05 -959-0379	1126597-1; (12705) A511 • ••••* • • • • SOCKET HEAD: SAME AS A468	EA	4									-11 1A2A4H13-4	
-F	110-595-6211	N512 • WASHER, FLAT:	EA	4									-11 1A2A4H1-1	
_F		SAME AS A115 A513 F MOTOR, DIRECT CURRENT: 1122346-1; (12705)	EA	П									1A2A3A43B1	
-F	05-054-5635	1122346-1; (12705) 1514 F SCREW, MACHINE: M851957-1; (96906)	EA	1									1A2A4A3MP1	
-F	05 -795-8592		EA	1	1	1	1			1		2	-11 1A2A4MP9	
	-197-0772	\515 E SCREW, ADJUSTING: 1126502-3; (12705) A516D												
		A517D												
-F		A516 E SHAFT, DEFLECTION:	EA	1									-11 1A2A4MP8	
-F	10-803-7307	1126504-1; (12705)	EA	1									-11 1A2A 4H6 -1	
)~R	170-003-1301	A519 • RING, RETAINING: 5100-25; (79136)	EA	1									9-11 LA2A4MP4	
	23.5 023 201.5	A520 E SHAFT, EXTENSION, MOTOR: 1126508-1; (12705)	EA	1	1	1	1	1	1	1	5	2	-11 1A2A4H10-1	'
F	315-2(1-3045	A521 * PIN, SPRING, (96906)	EA	1			ļ -						9-11 1A2A4MP5	
)=R		A522 E SHAFT, GUIDE, FOCUS MOTOR: 1126507-1; (12705)	EA	2									'-11 1A2A4H4-2	- 1
2-H	340-852-4329	A523 • OSMG OVERSIBLE 5144-25; (79136)		1									-11 1A2A4MP6	
) - F		A524 E SHAFT, WIDE, FOCUS MOTOR: SAME AS A522	EA										J.	J
?=1	340-852-4329	A525 • RING, RETAINING: SAME AS A523	EA	1 1									9-11 1A2A4H5-2	
		A526D		П		2								
<u> </u>				1 1	-									

TM 11-5855-217-35

(1) SMR	(2) FEDERAL	(3) DESCRIPTION			(5) QTY INC IN		(6) Y DS M			(7) AY GS 1		(8)	(9)		(10) 1 LLUSTRATIONS
CODE	STOCK Number		USABLE ON	OF MEAS	INC IN UNIT	(a)	LLOWAN	(c)	-	ALLOWA		I YR ALWPER 100 FOUIP	ALW	(a) FIG	(b) ITEM NO. OR REFERENCE
		REFERENCE NUMBER & MFR. CODE	CODE			1-20	21-50	51-100	1-20	2ì-50	51 <u>-100</u>	EQUIP CNTGCY	ĘĠŬĬP	NO.	DESIGNATION
D-F		A527 E SHIM, FOCUS MOTOR: 1126580-1; (12705)		EA	1									9-11	1A2A ¹ MP3
F	5930-134-5642	A528 E SWITCH, ROTARY: 112 8349-1; (12705)		EA	1	1	1	1	1	1	1	12	5	9 - 11	1A2A4S5
:2-F		A529 * SCREW, CAP, SOCKET HEAD: SAME AS A389		EA	2									9–11	1A2A4H12-2
2-F	5340-016-8318	A530 * SPACER, SLEEVE: 8481; (83330)		EA	2									9 - 11	1A2A ¹ H2-2
'F	5365-17 7-3920	A531 E WASHER, SHIM: 5722-27-2A; (86928)		EA	1	1	1	1	1	1	1	5	2	9-11	1A2A4MP19
<u></u> -0	5920-295-9602	A532 D FUSE, CARTRIDGE: 313001; (75915)		EΑ	1	1	2	3	1	1	1	33	20	9-8	1A2F1
·o	5920-295-9602	A533 D FUSE, CARTRIDGE: SAME AS A532		EΑ	1	REF	REF	REF	REF	REF	REF	REF	REF	9-8	1A2F2
'F	5920-1 42-7437	A534 D FUSEHOLDER: 357001; (75915)		EA	1	1	1	1	1	1	1	10	14	9 - 8	1A2XF1
:2-F	5305-054-6654	A535 * SCREW, MACHINE: SAME AS A311		EA	1									9-8	1A2H12-1
2-F	5310-773-7624	A536 * WASHER, FLAT: SAME AS A226		EA	1									9-8	1A2H53-1
2-F	5310-929-6395	A537 * WASHER, LOCK: SAME AS A025		EA	1									9-8	1A2H77-1
'F	5920-142-7437	A538 D FUSEHOLDER: SAME AS A534		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9 - 8	la2XF2
2-F	5305-054-6654	A539 * SCREW, MACHINE : SAME AS A311		EA	1									9-8	1A2H11-1
:2-F	5310-773-7624	A540 * WASHER, FLAT: SAME AS A226		EA	1									9-8	1A2H52-1
:2-F	5310-929-6395	A541 * WASHER , LOCK: SAME AS A025		EΑ	1									9-8	1A2H76-1
`F	5920-142-7437	A542 D FUSHOLDER ; SAME AS A534		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9-8	1A2MP31
:2-F	5305-054-6654	A543 * SCREW, MACHINE: SAME AS A311		EA	1									9 - 8	1A2H10-1
:2-F	5310-773-7624	A544 * WASHER , FLAT : SAME AS A226		EA	1									9 - 8	1A2H51-1
:2-F	5310-929-6395	A545 WASHER , LOCK: SAME AS A025		EA	1									9-8	1A2H75-1
'F	5920-1 42-7437	A546 D FUSEHOLDER: SAME AS A534		EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9 - 8	1A2MP32
:2-F	5305-05 4-6654	A547 * SCREW, MACHINE : SAME AS A311		EA	1									9-8	1A2H13-1
:2-F	5310-773-7624	A548 * WASHER, FLAT: SAME AS A226		EA	1									9 - 8	1A2H54-1
:2-F	5310-929-6395	A549 * WASHER . LOCK: SAME AS A025		EA	1									9 - 8	1A2H78-1
'F	5330-143-7617	A550 D GASKET: 1127666-1; (12705)		EA	1	1	1	2	1	1	1	19	10	9-8	1A2MP23
'F	8040-145-0450	A551 * ADHESIVE: SAME AS A384		oz	1	REF	REF	REF	REF	REF	REF	REF	REF		1A2MP58

TM 11-5855-217-35
SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(3)		CITON II REPAIR PARTS FUR DIRECT			,									
(1) SMR CODE	(2) Federal Stock	DESCRIPTION	(4) INIT OF	(5) (TY (C I		(6) Ay DS M Allowan			(7) XYGS M XLLOWAI		(8) YR .WPE	(9) POT AINT	(a)	ILLUSTRATIONS (b)
	NUMBER	USABLE ON REFERENCE NUMBER & MFR. CODE CODE	IĔĀS	NIT	(a)	(b)	(c)	(a)	(b)	(c)	WPE 100 QUI	WPEI 100	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
_		TEPERAL HOUSEN & PRINT, OUDE CODE	1—	-	-20	1-5	<u>1-10</u>	1-20	1-50	<u>1-10</u>	ITGC	JUIP		DESIGNATION
`F	3020-122-0627	A552 D GEAR, SPUR: 1126942-1; (12705)	EA	ı	1	1	1	1	1	1	12	5	9- 8	1A2MP14
'F		A553 * PIN, SPRING: MS171526; (96906)	EΑ	1	1	1	1	1	1	1	5	2	9 8	1A2H4-1
		A554D												
`F	5325-276-6082	A555 D GROMMET , RUBBER : MS35489-43; (96906)	EA	1	1	1	2	1	1	1	19	10	9-8	1A2MP35
'F	5325-276-6082	A556 D GROMMET, RUBBER: SAME AS A555	EA	1	REF	REF	REF	REF	REF	REF	REF	(EF	9-8	LA2MP36
'F	5325-276-6082	A557 D GROMMET , RUBBER : SAME AS A555	EA	1.	REF	REF	REF	REF	REF	REF	REF	(EF	9– 8	lA2MP37
`F	5325-276-6082	A558 D GROMMET , RUBBER : SAME AS A555	EA	1	REF	REF	REF	REF	REF	REF	REF	≀EF	9 - 8	1A2MP38
'F	5325-276-6082	A559 D GROMMET, RUBBER : SAME AS A555	EA	1	REF	REF	REF	REF	REF	REF	REF	lef	9-8	1A2MP39
<u></u> 0	5855-245-8452	4560 D HOLDER AS SEMBLY, LAMP SUPPORT: 1128310-1;(12705)	EA	1	1	1	2	1	1	1	19	10	9 –8	LA2A12
'0	5305-054-5648	A561* SCREW, MACHINE: SAME AS A343	EA	14	*	1	ı	*	1	1	16	8	9- 8	LA2H25-4
- Q	5310-632-6721	4562 * Washer, Flat: SAME AS A344	EA	14	*	1	1	*	1	1	16	8	9- 8	la2h36-4
,O	5310-933-8118	A563 * WASHER, LOCK: SAME AS All6	EA	4	*	1	1	*	1.	1	16	8	3– 8	LA2H67-4
1-0		4564 E CLIP, LAMP SUPPORT: 1122322-1;(12705)	EA	1										LA2A12MP1
1-0		4565 E RING, LAMP SUPPORT: 1128308-1;(12705)	EA	1										LA2A12MP2
1-0		4566* RIVET, SOLID: MS20470B2-2;(96906)	EA	14										LA2A12H1-4
~-F	3855-245-8456	A567 D HOUSING ASSEMBLY, LAMP: 1126561-1; (12705)	EA	1	1	1	1	1	1	1	5	2	3- 8	LA2A7
2-F	5305-813-5486	A568 * SCREW, SHOULDER: 4327; (00141)	EA	14									3– 8	1A2H5-4
1-F		4569 E HOUSING, LAMP: 1126561-3; (12705)	EA	1										LA2A7MPl
2-F		A570 E INSERT, SCREW THREAD: MS51831-201; (96906)	EA	10									3- 8	LA2A7MP2-10
F-	5855-134-0550	4571 D IGNITER, LAMP: 1126553-3; (12705)	EA	1	1	5	3	1	1	1	33	20	9– 8	LA2E3
2-F	3310-655-6930	4572* NUT, PLAIN, HEXAGON: MS25082-3; (96906)	EA	14									3– 8	LA2H90-4
2-F	5305-059-3660	4573 * SCREW, MACHINE: SAME AS A457	EA	14									3- 8	LA2H23-4
2 - F	5310-167-0812	4574 * WASHER, FLAT: SAME AS A304	EA	14									9- 8	LA2H43-4
2 - F	5310-933-8120	1575 * Washer , Lock: Same as a o 5 o k	EA	14									9 - 8	1A2H84-4
'F	5855-245-8457	A576 D INLET, AIR, LAMP: 1127010-1;(12705)	EA	1	1	1	1	1	1	1	5	2	3 - 8	LA2MP22
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TM 11-5855-217-35

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

		TION II REPAIR PARTS FUR DIRECT			IENI		JUFF	UKI,		DEF				ICE (Continued)
(1 SM COD	(2) Federal Stock Number	(3) DESCRIPTION	(4) INIT OF 4EAS	25 ± 5;		(6) Ay DS M Allowai			(7) Ay GS Allowa		(8) YR N Pl 100	(9) EPC AI N LWP	(a	ILLUSTRATIONS (b) ITEM NO. OR
	RUMBER	REFERENCE NUMBER & MFR, CODE CODE	TE AS	INT	(a 1-2	(b) !1-!	(c) -]((a) 1-2((b 1-	Ĭυ	QUI (TG(OUI	FI NO	ITEM NO. OR REFERENCE DESIGNATION
2-F	i305-054-6651	A577 * SCREW, MACHINE: SAME AS A311	EA	4)-8	1A2H15-4
2-F	;310-773-7621	A578 * WASHER, FLAT: SAME AS A226	EA	14)- 8	1A2H49-4
2-F	310-929-6395	A579 * WASHER, LOCK: SAME AS A025	EA	14)- 8	1A2H71-4
F	:970 -1 34 - 6478	A580 D INSULATOR, BUSHING, HIGH VOLTAGE: 1126988-1; (12705)	EA	1		1	1	1	1	1	5	2)-8	1A2MP20
0	230-168-0153	A581 D LAMP AND HOLDER ASSEMBLY: SAME AS A266	EA	ı	REI	REF	≀EF	≀EF	ÆF	₹ E F	æF	₹EF		Al.
0	250-134-1757	A582 E HOLDER, LAMP: SAME AS A265	EA	1	REI	REF	≀EF	ŒF	æF	₹EF	₹EF	₹EF		MP2
1-0		A583 E LAMP, XENON: SAME AS A268	EA	1									-8	LA2DS1
i–F		A584 D MARKER, IDENTIFICATION: SAME AS A171	EA	1									- -8	LA2MP28
i-F		A585 D MARKER , IDENTIFICATION : 366-11-03-010 ; (71785)	EA	1									- 8	LA2MP29
) - F		1586 D MARKER , INSTRUCTION : 1126573-1 ; (12705)	EA	1										LA2MP25
) - F		1587 D MARKER , INSTRUCTION : 1126574-1 ; (12705)	EA	1									-8	LA2MP ¹ 4
) - F		1588 D MARKER , INSTRUCTION : 1129403-1 ; (12705)	EA	1									-8	LA2MP26
) - F		1589 D MARKER , INSTRUCTION : SAME AS A588	EA	1									-8	LA2MP27
F	105-135-0019	1590 D MOTOR, DIRECT CURRENT: SAME AS A510	EA	1	REF	REF	EF	EF	EF	EF	EF	:EF	- 8	:A2A13
:-F	310-939-0849	1591 * NUT, HEXAGON, SELF-LOCKING: MS21083C04; (96906)	EA	14									\$.A2H104-4
! - F	305-068-6605	1592 * SCREW, MACHINE: MS24693C6; (96906)	EA	4									-8	A2H100-4
		1593D												
' - F	310-933-8118	1594 * WASHER, LOCK: SAME AS All6	EA	4									-8	.A2H64-4
-F		595 E MOTOR, DIRECT CURRENT: SAME AS A513	EA	1										A2A13B1
-F	305-054-5635	.596 E SCREW, MACHINE: SAME AS A514	EA	1										.A2A13MP1
-F		.597 D MOUNT, RESILIENT: J14269-1; (76005)	EA	1	1	1	1	1	1	1	16	8	-8	A2MPl0
-F		.598 D MOUNT, RESILIENT: SAME AS A597	EA	1	tEF	(EF	EF	EF	EF	EF	EF	EF	-8	A2MP11
-F		599 D MOUNT, RESILIENT: SAME AS A597	EA	1	!EF	ŒF	EF	EF	EF	EF	EF	EF	-8	A2MP12
-F	310-810-1786	599A*NUT, SELF-LOCKING : MS21042-6; (96906)	EA	2										A2MP56
-F	310 – 183–4355	99B* WASHER, FLAT: SAME AS A401		2										A2MP57
		332 33 4.02												
D 20			Щ,											

B-30

(1)		CTION II REPAIR PARTS FUR DIRECT					-	·		1				(10)
(1) SMR CODE	(2) Federal Stock	(3) DESCRIPTION	(4) UNIT OF	(5) QTY INC IN		(6) Ay DS M ALLOWAN		30-D#	(7) \Y GS I \LLOWA!	MAINT NCE	ALW PER	(9) DEPOT MAINT ALWPER	(a)	ILLUSTRATIONS (b)
	NUMBER	USABLE ON REFERENCE NUMBER & MFR. CODE CODE	MEAS	UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c)	EQUIP CNTGCY	100	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
						2, 2,		1 -5		7.100		3,55		
>F		A600 D MOUNT, RESILIENT: SAME AS A597	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9 - 8	1A2MP13
(2-F	5310-810-1786	A600A * NUT, SELF-LOCKING: SAME AS A599A	EA	2										1.A2MP54
(2 - F	5310-183-4355	A600B * WASHER , FLAT : SAME AS A401	EA	2										1A2MP55
(2 - F	5310-655-6930	A601 D NUT, PLAIN, HEXAGON : SAME AS A572	EA	1									9 - 8	1A2MP49
?F	5315-616-4811	A602 D PIN, SPRING: MS171524; (96906)	EA	1	j *	1	1	*	1	1	16	8	9-8	1A2MP44
?F	5315-616-4811	A603 D PIN, SPRING: SAME AS A602	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9–8	1A2MP45
?F	5315-616-4811	A604 D PIN, SPRING: SAME AS A602	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		1A2MP46
? F	5315-616-4811	A605 D PIN, SPRING: SAME AS A602	EA	1	REF	REF	REF	REF	REF	REF	REF	REF		1A2MP47
?F	5855-135-0139	A606 D REFLECTOR ASSEMBLY SEARCHLIGHT: 1126588-1;(12705)	EA	ı			3	1	1	1	. 33	20		1A2A11
(2-F		A607 * SCREW, CAP, SOCKET HEAD: NAS1351CO1-5; (80205)	EA	6									9 - 8	1A2H26-6
(2-F	5310-804-0141	A608* WASHER , FLAT : MS15795-801 ; (96906)	EA	6									9-8	1A2H96-6
(2-F		A609 * WASHER, LOCK: NAS1676C1;(80205)	EA	6									9-8	1A2H61-6
(1-F		A610 E ADAPTER, REFLECTOR, LIGHT: 1126566-1; (12705)	EA	1									9 - 8	1A2A11MP2
CL-F		A611 E REFLECTOR: 1122341-7; (12705)	EA	1									9 - 8	1A2A11MP1
(1-F		A612 E RING, RETAINING, INSTRUMENT: 1126567-1;(12705)	EA	1									9-8	1A2A11MP3
(2-F	5305-068-5414	A613 * SCREW, CAP, SOCKET HEAD: SAME AS A389	EA	8									9-8	1A2A11H1-8
(2-F	5305-457-6886	A614 D SCREW, CAP, SOCKET HEAD: MS16995-61; (96906)	EA	1									9 - 8	1A2MP48
?F	5961-134-6864	A615 D SEMICONDUCTOR DEVICE, DIODE: MR1217SL; (04713)	EA	1								2	9-8	1A2CR1
(2-F	5310-655-6930	A616* NUT, PLAIN, HEXAGON: SAME AS A572	EA	1									9-8	1A2H91-1
(2-F	5305-059-3658	A617 * SCREW, MACHINE: SAME AS A406	EA	1									9-8	1A2H31-1
(2-F	5310-167-0812	A618* WASHER, FLAT: SAME AS A304	EA	1									9 - 8	1A2H47-1
(2-F	5310-933-8120	A619* WASHER , LOCK : SAME AS A050K	EA	1									9 - 8	1A2H88-1
?F	5855-245-8454	A620 D SHAFT ASSEMBLY, DEFLECTOR: 1126537-1; (12705)	EA	1								2		1A2A6
(1-F		A621 E BEARING. PLAIN. ROD END: SAME AS A375		1									9-8	1A2A6MP2
(2-F	5315-734-5592	A622 E PIN, SPRING: MS171433; (96906)	EA	1	! !								9-8	1A2A6MP3
			_											D_21

TM 11-5855-217-35

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

(1) SMR	(2) FEDERAL	(3) DESCRIPTION	(4) NIT	(5) QTY	30-1	6) DS /	INT	30-1	7) 6S	INT	(8) YR	(9) EPOT		(10) ILLUSTRATIONS
CODE	STOCK Number	USABLE ON REFERENCE NUMBER & MFR. CODE CODE	OF EAS	VC IN INIT	(a)	(b)	(c)	(a)	.OW/	(c)	LW PE 100 EQUI NTGC	AINT WPER 100	(a) FIG NO.	(b) ITEM NOL. OR REFERENCE DESIGNATION
		REFERENCE NUMBER & MFR. CODE CODE			1-20	1-50	1-100	1-20	1-5	<u>-100</u>	NTGC	QUIP		DESIGNATION
Xl-F		4623 E PIN, THREADED, DEFLECTOR SHAFT: 1126537-3; (12705)	EA	1									9 - 8	LA2A6MP1
PF	365-134-3340	\624 D SHIM, LAMINATED: 1126994-1; (12705)	EA	1	1	1	1	1	1	1	5	2	9-8	LA2MP21
MH-F		1625 D SPACER, PLATE, BIPOD: 1126578-1; (12705)	EA	1									9 - 8	LA2MP16
MH—F		1626 D SPACER, PLATE, BIPOD : SAME AS A625	EA	1									9-8	LA2MP17
мн-г		A627 D SPACER, PLATE, DEFLECTOR BRACKET: 1126579-1; (12705)	EA	1									9-8	LA2MP7
MD-F		\628 D SPACER, PLATE, FOCUS MOTOR: 1126514-1; (12705)	EA	1									9–8	LA2MP2
PF	365-142-6895	\629 D SPACER, SLEEVE: 8525; (83330)	EA	1	1	1	1	1	1	1	10	4	9-8	LA2MP42
X2-F	305-988-7605	1630 * SCREW, CAP, SOCKET HEAD: MS16995-29; (96906)	EA	1									9-8	LA2H103-1
X2-F	310-933-8119	1631 * WASHER, LOCK: SAME AS A020	EA	1									9-8	LA2H62-1
PF	365-142-6895	1632 D SPACER, SLEEVE: SAME AS A629	EA	1	REF	REF	REF	REF	EF	ŒF	REF	ŒF	9–8	LA2MP43
X2-F	305-988-7605	1633 * SCREW , CAP , SOCKET HEAD: SAME AS A630	EA	1									9-8	LA2H104-1
X2-F	310-933-8119	1634 * WASHER, LOCK: SAME AS A020	EA	1									9–8	LA2H63-1
XF-		1635 D SUPPORT, SEARCHLIGHT: 1126925-3; (12705)	EA	1									9 - 8	LA2A9
X2-F	340-783-9139	1635A E INSERT, SCREW THREAD : MS51830-204L; (96906)	EA	14									9-8	LA2A9MP1-2
X2-F	340-021-3495	1636 E INSERT, SCREW THREAD: MS51830-2011; (96906)	EA	4									9 - 8	LA2A9MP3-4
PF	930-241-8954	1637 D SWITCH, SENSITIVE: BZ2RQLA2; (91929)	EA	1	1	1	1	1	1	1	13	6	9 - 8	LA2S1
F	930-241-8954	1638 D SWITCH, SENSITIVE: SAME AS A637	EA	1	REF	REF	REF	REF	EF	EF	REF	ŒF	9 - 8	LA2S2
F	3 30-191-9358	1639 D SWITCH, THERMOSTATIC: 1126911-1; (12705)	EA	1	1	1	1	1	1	1	12	5	9–8	LA2S3
F	040-145-0450	639A * ADHESIVE: SAME AS A384	PT	1	REF	REF	REF	REF	EF	EF	REF	EF		LA2S3MP1-1
PF	585-191-9357	1640 D SWITCH, THERMOSTATIC: 1126911-11; (12705)	EA	1	1	1	1	1	1	1	5	2	9-8	LA2S14
PF	040-145-0450	.640A * ADHESIVE : SAME AS A384	PT	1	REF	REF	REF	REF	EF	EF	REF	tEF		LA2S4MP1-1
PF	370-177-4350	641 D TERMINAL , FEEDTHRU , INSULATED : SAME AS A050H	EΑ	1	REF	REF	REF	REF	EF	EF	REF	ŒF	9 - 8	LA2E2
X2-F	305-054-5649	\642 * SCREW, MACHINE: MS51957-15; (96906)	EA	1									9-8	LA2H7-1
X2-F	310-632-6721	MS51957-15; (96906) 6721		1									9-8	LA2H38-1
X2-F	310-933-8118	.644 * WASHER , LOCK: SAME AS All6	EΑ	1									9 - 8	LA2H69-1
R-32				ا	ا <u>ــــ</u> ا		· ·	ا ـــــــ ا		'	'	' <u> </u>	ı	

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TM 11-5855-217-35
SECTION II REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (Continued)

(1)	(2)	CITON II REPAIR PARTS FUR DIRECT			.				(7)			_	1	(00000000000000000000000000000000000000
ŠMŔ CODE	FEDERAL Stock Number	(3) Description	(4) UNIT OF	(5) QTY INC IN UNIT		(6) Ay DS I Allowai			AY GS Allowa		(8) 1 yr Alwper	(9) DEPOT MAINT	(a) FIG	(10) ILLUSTRATIONS (b)
	NUMBER	USABLE ON REFERENCE NUMBER & MFR. CODE CODE	MEAS	UNII	(a) 1-20	(b) 21 - 50	(c) 51-100	(a) 1-20	(b) 21 - 50	(c) 51-100	100 EQUIP CNTGCY	.WPE 100 EOUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
							V . 100							<u> </u>
F	5970-177-4350	A645 D TERMINAL, FEEDTHRU , INSULATED : SAME AS A050H	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9–8	1A2E1
2 - F	5305 - 05 4-5649	A646* SCREW, MACHINE: SAME AS A642	EA	1									9-8	1A2H6-1
2- F	5310-632-6721	A647 * WASHER, FLAT: SAME AS A344	EA	1									9-8	1A2H37-1
2-F	5310 -933-8118	A648 WASHER , LOCK : SAME AS A116	EA	1									9-8	1A2H68-1
2 -F	5940-813-0698	A649 D TERMINAL, LUG: SAME AS A263	EA	34										1A2E5-E38
2-F	5940-143-4771	A650 D TERMINAL, LUG: SAME AS A210	EA	2										1A2E39 , E40
2-F	5940-113-8179	A651 D TERMINAL, LUG: SAME AS A197	EA	2										1A2E41 , E42
2-F	5940-143-4780	652 D TERMINAL, LUG: SAME AS A212		4										1A2E43-E46
2-F	5940-143-5284	A653 D TERMINAL, LUG: SAME AS A213	EA	8										1A2E47-E54
?-F	5940-114-1305	A654 D TERMINAL, LUG: MS25036-116; (96906)	EA	3										1A2E55-E57
?-F	5940-283-5280	A655 D TERMINAL, LUG: SAME AS A211	EA	3										1A2E58-E60
?-F	5940-143-4774	A656 D TERMINAL, LUG: MS25036-153;(96906)	EA	5										1A2E61-E65
2-F	5940-230-0515	A657 D TERMINAL, LUG: MS25036-154; (96906)	EA	3										1A2E66-E68
2-F	5940-117-1024	A658 D TERMINAL BOARD: SAME AS A214	EA	1									9 - 8	1A2TB1
?-F	5305-054-6656	A659* SCREW, MACHINE: MS51957-32; (96906)	EA	4									9-8	1A2H21-4
?-F	5310-531-9514	A660* WASHER , FLAT : SAME AS A279	EA	4									9-8	1A2H4O-4
?-F	5310-929-6395	A661* WASHER , LOCK: SAME AS A025	EA	4									9 - 8	1A2H74-4
?-F		A662 D TERMINAL BOARD: SAME AS A219	EA	1									9 - 8	1A2TB2
?-F	5305-054-6655	A663 * SCREW, MACHINE : SAME AS A220	EA	4									9 - 8	1A2H2O-4
?-F	5310-773-7624	A664*WASHER, FLAT : SAME AS A226	EA	4									9-8	1A2H5O-4
?-F	5310-929-6395	A665* WASHER , LOCK : SAME AS A025	EA	4									9–8	1A2H73-4
-F		A665A D WASHER, LAMINATED: 5722-21-4A; (86928)	EA	1	1	1	1	1	1	1	5	2		1A2H93 -1
F		A666 C WINDOW, SEARCHLIGHT: 1122370-1; (12705)	EA	1	1	1	2	1	1	1	19	10	9-7	lmp5
. - F		A667 C SEAL, RUBBER CHANNEL : SAME AS A365	EA	1	REF	REF	REF	REF	REF	REF	REF	REF	9-7	1MP7
F	8040-145-0450	668 C ADHESIVE : SAME AS A384		1	REF	REF	REF	REF	REF	REF	REF	REF		lmp8

FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	FEDERAL STOCK Number	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	ITEM Sequence Number
HOPIDER 1	HONDEN	I I	HOHDER	1 I III III III III III III III III III	HONDER
3020-122-0627	A552	530505 4-6654	A461	5305 -795-8591	A387
3110-554-3979	A315	5305-054-6654	A535	5305-795-8592	A515
3110-554-3979	A315A	5305-054-6654	A539	5305-800-7261	A500
3120-324-6424	A485	5305-054-6654	A543	5305-813-5486	A568
3120-324-6424	A486	5305-05 4-6654	A547	5305-855-2991	A134
3120-324-6424	A487	5305-054-6654		5305-882-6031	A329A
3120-324-6424	A488	5305-054-6655	A577 A220	5305-882-6031	A330A
3120-324-6424	A489	5305-054-6655	A225	5305-933-9269	A119
3120-324-6424	A490	5305-05 4-6655	A663	5305-933-9269	A124
3120-324-6424	A491	5305-054-6656	A659	5305-958-6517	A380
4140-13 4-4240	A329	5305-054-6670	A018	5305-958-6517	A482
4140-134-4242	A330	5305-054-6660	A292E		A468
5305-016-8257	A330 A400	5305-054-6660	A292E A215	5305-959-0379	A511
5305-016-8257	A400		A215	5305-959-0379	A023
		5305-059-3656		5305-959-0382	A376
5305-050-9236	A258	5305-059-3657	A050L	5305-959-1909	
5305-052-6456	A299	5305-059-3658	A406	5305-959-1909 5305-983-6651	A396
5305-054-5635	A514	5305-059-3658	A617		A237
5305-05 4-5635	A596	5305-059-3660	A457	5305-988-7605 5305-988-7605	A630
5305-054-5636	A393	5305-059-3660	A573		A633 A411
5305-05 4-5647	A170A A343	5305-066-7326	A325 A468A	5305-988-7615 5305-990-6381	A411 A278
5305-054-5648	A561	5305-068-5276			A300
5305-054-5648	A642	5305-068-5414	A389	5305 - 990 - 6381 5310-022-8834	A290
5305-054-5649	A646	5305-068-5414	A529 A613		A289
5305-054-5649	A240	5305-068-5414 5305-068-6605		5310-045-5210	A313
5305-054-5651 5305-05 4-5652	A129		A592 A235	5310-054-0041 5310-061-1258	A015
5305-054-5652	A346	5305-071-1323	A233	5310-167-0801	A259
5305-054-6652	A138	5305 – 175–3230 5305–225 –6400	A192	5310-167-0801	A303
5305-054-6652	A143		A256	5310-167-0801	A458
5305-054-6652	A198	5305-253-5609 5305-269-2801	A367	5310-167-0812	A304
5305-05 4-6652	A333	5305-269-2803	A014	5310-167-0812	A377
5305-054-6654	A311	5305-457-6886	A614	5310-167-0812	A381
5305-054-6654	A426	5305-655 -9246	A497	5310-167-0812	A397
5305-054-6654	A430	5305-716-8186	A270	5310-167-0812	A407
5305-054-6654	A434	5305-719-5017	A412	5310-167-0812	A4 52A
5305-054-6654	A438	5305-732-9205	A114	5310-167-0812	A484
5305-054-6654	A443	5305-763-6962	A068	5310-167-0812	A574
5305-05 4-6654	A448	5305-763-7822	A288	5310-167-0812	A6 18
75-7-17-4-00/4	A	7507-103-1022)310-10 -001E	AV 4V

FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	FEDERAL STOCK Number	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER
	1	1	•	•	
5310-177-1162	A310	5310-76 4-9564	A413	5310-929-6395	A228
5310-183-4355	A401	5310-767-9425	A271	5310-929-6395	A292B
5310-183-4355	A404	5310-773-7618	A368	5310-929-6395	A306
5310-183-4355	A599B	5310-773-7624	A226	5310-929-6395	A428
5310-183-4355	A600B	5310-773-7624	A427	5310-929-6395	A432
5310-250-9477	A410	5310-773-7624	A431	5310-929-6395	A436
5310-515-7449	A312	5310-773-7624	A435	5310-929-6395	A440
5310-531-9514	A279	531 0-773-7624	АЦЦЦ	5310-929-6395	A445
5310-531-9514	A292C	5310-773-7624	A449	5310-929-6395	A450
5310-531-9514	A305	5310-773-7624	A462	5310-929-6395	A463
5310-531-9514	A334	531 0-773-7624	A536	5310-929-6395	A537
5310-531-9514	A439	531 0-773-7624	A540	5310-929-6395	A541
5310-531-9514	A660	5310-773-7624	A544	5310-929-6395	A545
5310-595-6211	A115	5310-773-7624	A548	5310-929-6395	A549
5310-595-6211	A130	5310-773-7624	A578	5310-929-6395	A579
5310-595-6211	A512	5310-773-7624	A664	5310-929-6395	A661
5310-595-6425	A242	5310-779-6625	A415B	5310-929-6395	A665
5310-595-6772	A050J	5310-804-0141	A608	5310-933-8118	A116
5310-595-6772	A135	5310-810-1786	A599A	5310-933-8118	A131
5310-595-6772	A189	5310-810-1786	A600A	5310-933-8118	A241
5310-632-6721	A344	5310-813-2812	A385	5310-933-8118	A291
5310-632-6721	A390	5310-822-0077	A284	5310-933-8118	A391
5310-632-6721	A469	5310-880-5978	A019	5310-933-8118	A470
5310-632-6721	A562	5310-880-5978	A120	5310-933-8118	A563
531 0-632-6721	A643	5310-880-5978	A125	5310-933-8118	A594
5310-632-6721	A647	531 0-880-5978	A181	5310-933-8118	A644
5310-655-6930	A572	5310-880-5978	A185	5310-933-8118	A648
5310-655-6930	A601	5310-924-5968	A229	5310-933-8119	A020
5310-655-6930	A 616	5310-924-5968	A230	5310-933-8119	A069
5310-680-6627	A442	5310-926-1835	A298	5310-933-8119	A121
531 0-680-6627	A447	5310-929-6395	A025	5310-933-8119	A126
5310-721-7809	A238	5310-929-6395	A140	5310-933-8119	A182
5310-722-5998	A024	5310-929-6395	A145	5310-933-8119	A186
5310-722-5998	A139	5310-929-6395	A199	5310-933-8119	A631
5310-722-5998	A144	5310-929-6395	A217	5310-933-8119	A634
5310-722-5998	A200	5310-929-6395	A222	5310-933-8120	A050K
5310-722-5998	A216	5310-929-6395	A223	5310-933-8120	A136
5310-722-5998	A221	5310-929-6395	A227	5310-933-8120	A190

FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	FEDERAL STOCK Number	ITEM Sequence Number	FEDERAL STOCK Number	ITEM SEQUENCE NUMBER
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5310-933-8120	A218	5315-616-4811	A604	5330-143-7718	A365
5310-933-8120	A260	5315-616-4811	A605	5330-143-7718	A667
5310-933-8120	A378	5315-619-1351	A496	5330-148-8592	A317
5310-933-8120	A382	5315-734-5592	A622	5330-229-3666	A280
5310-933-8120	A398	5320-234-1556	A421	5330-229-3666	A307
5310-933-8120	A408	5320-234-1557	A415A	5330-574-6704	A177
5310-933-8120	A452B	5320-619-0498	A028	5330-574-6704	A178
5310-933-8120	A458A	5320-619-0498	A030	5330-806-8769	A253
5310-933-8120	A483	5320-619-0498	A032	5330-806-8769	A254
5310-933-8120	A575	5320-619-0498	A034	5330-828-4749	A243
5310-933-8120	A619	5320-619-0498	A036	5330-874-3744	A370
5310-933-8121	A292	5320-619-0498	A038	5330-927-0068	A286
5310-933-8121	A414	5320-619-0498	A040	5340-016-8318	A530
5310-93 4-9748	A113	5320-619-0498	A042	5340-021-3495	A636
5310-934-9748	A128	5320-619-0498	A044	5340 -027-5737	A153
5310-934-9748	A285	5320-619-0498	A046	5340-068-3544	A423
5310-934-9759	A118	5320-619-0498	A048	5340 - 068-3544	A424
5310-934-9759	A123	5320-619 - 0498	A050	5340-134-3339	A274
5310-934-9759	A180	5320-655-4757	A052	5340-134-3489	A356
5310-934-9759	A184	5320-655-4757	A054	5340-134-3489	A357
5310-934-9765	A133	5325-276-6082	A555	5340-134-3490	A355
5310-934-9765	A452	5325-276-6082	A556	5340-134-3491	A349
5310-934-9765	A456	5325-276-6082	A557	5340-134-3491	A350
5310-939-0849	A591	5325-276-6082	A558	5340-134-3491	A351
5310-944-7629	A057	5325-276-6082	A559	5340-134-3491	A352
5310-944-7629	A060	5330-060-9601	A156	5340-134-3491	A353
5310-944-7629	A336	5330-060-9601	A157	5340-143-0356	A272
5310-94 4-7629	A337	5330-134-3097	A245	5340-178-8116	A294
5310-944-7629	A338	5330-143-7617	A550	5340-443-5878	A509
5310-984-7042	A369	5330-143-7624	A331	5340-558-8826	A465
5310-984-7042	A401A	5330-143-7626	A146	5340-678-3309	A358
5315-271-3045	A521	5330-143-7626	A244	5340-783-9139	A635A
5315-291-5471	A507	5330-143-7650	A308	5340 - 799 - 1336	A383
5315-297-0836	A502	5330-143-7662	A147	5340-803-7307	A519
5315-297-0836	A504	5330-143-7662	A148	5340-852-4329	A523
5315-584-6574	A454	5330-143-7662	A149	5340-852-4329	A525
5315-616-4811	A602	5330-143-7662	A275	5340-903-7567	A467
5315-616-4811	A603	5330-143-7706	A340	5340-951-1532	A027

FEDERAL STOCK	ITEM SEQUENCE	FEDERAL Stock Number	ITEM SEQUENCE NÙMBER	FEDERAL STOCK Number	ITEM SEQUENCE NUMBER
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5340-951-1532	A029	5855- 245-8449	A388	5910-105-1924	A072
5340-951-1532	A031	5855-245-8450	A386	5910-177-4415	AO 5 OA
5340-951-1532	A033	5855-245-8451	A451	5910-177-4415	A050B
5340-951-1532	A035	5855-245-8452	A560	5910-177-4415	A050C
5340-951-1532	A037	5855-245-8453	A466	5910-177-4415	A050E
5340-951-1532	A039	5855-245-8454	A620	5910-177-4415	A050F
5340-951-1532	A041	5855-245-8456	A567	591 0-177 -4415	A050G
5340-951-1532	A043	5855-245-8457	A576	5910-926-8217	A073
5340-951-1532	A045	5855-245-8458	A453	5910-926-8217	A074
5340-951-1532	A047	5855-245-8459	A326	5920-142-7437	A534
5340-951-1532	A049	5855 -245-8460	A293	5920-142-7437	A538
5340-951-1532	A441	5855-245-8461	A481	5920 -142-7437	A542
5340-951-1532	A446	5855-245-8462	A498	5920-142-7437	A546
5340-995-6873	A152	5855-245-8463	A501	5920-295-9602	A532
5355-556-0145	A162	5855-245-8464	A503	5920-295-9602	
5355-994-3435	A161	5855 -245-8465			A533 A204
	A624	5855-245-8466	A332	5930-126-1220	A262
5365-134-3340		5855 -247-7219	A505	5930-126-1220	
5365-142-6895	A629		A067	5930-134-5642	A528
5365-142-6895	A632	5905-088-3349	A097	5930-177-2757	A201
5365-177-3920	A531	5905-134-9846	A277	5930-177-2758	A202
5820-999-9193	A459	5905-252-4018	A089	5930-191-9358	A639
5855-058-1293	A001	5905-252-4018	A090	5930-241-8954	A637
5855-133-9249	A150	5905-256-0412	A093	5930-241-8954	A638
5855-13 4-0527	A231	5905-256-0412	A094	5930-682-0757	A203
5855-134-0534	A471	5905-256-0412	A095	5930-68 2-0757	A261
5855-134-0543	A379	5905-279-2596	A092	5935-500-5008	A142
5855-134-0548	A495	5905-279-2673	A091	5935-581-2889	A141
5855-134-0550	A571	5905-279-2674	A083	5935-615-2305	A137
5855-13 4-0569	A348	5905-279-3502	A081	5935 -683 -2470	A132
5855-135-0138	A666	5905-279-3514	A082	5935-721-0490	A239
5855-135-0139	A606	5905-279-3519	A0814	5935-813-4364	A112
5855-135-0143	A460	5905-279-3519	A085	5935-817-2679	A455
5855-135-0154	A236	5905-299-1965	A086	5935-855-4416	All7
5855-135-0155	A013	5905-299-1965	A087	5935-901-7008	A127
5855-135-0156	A273	5905-299-1965	A088	5935-991-7233	A122
5855-135-0162	A269	5905-882-5298	A096	5940-113-8179	A197
5855-245-8447	A070	5905-916-7 562	A098	5940 -113 -8179	A651
5855-245-8448	A371	5910-105-1924	A071	5940-114-1305	A654

FEDERAL STOCK NUMBER	ITEM SEQUENCE NUMBER	FEDERAL STOCK Number	ITEM SEQUENCE NUMBER	FEDERAL STOCK Number	ITEM SEQUENCE NUMBER
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5940-117-1024	A214	5961-907-8275	A079	6240-155-7836	A250
5940-117-1024	A658	5961-929-3715	A075	6240-851-4352	A163
5940-143-4771	A210	5961-929-3715	A076	6250-134-1757	A265
5940-143-4771	A650	5961-929-3715	A077	6250-134-1757	A267
5940-143-4774	A656	550 IUS4UO45	Alll	6250-134-1757	A582
5940-143-4780	A212	5970-134-6478	A580	6645-566-0720	A174
5940-143-4780	A652	5970-177-4350	A050H	6685-191-9357	A640
5940-143-4833	A224	5970-177-4350	A641	8030-081-2340	A069A
5940-143-5284	A213	5970-177-4350	A645	8030-081-2340	A230B
5940-143-5284	A653	5975-123-1527	A264	8040-145-0450	A384
5940-204-8966	A209	5975-553-7151	A452C	8040-145-0450	A551
5940-229-9669	A219	5977-943-7206	A316	8040-145-0450	A639A
5940-229-9669	A662	5977-943-7206	A316A	8040-145-0450	A640A
5940-230-0515	A657	5995-135-0081	A002	8040-145-0450	A668
5940-283-5280	A211	5999-992-9958	A051	8040-828-7385	A340A
5940-283-5280	A655	5999-992-9958	A053	9905-114-1334	A005
5940-557-4398	A327	6105-135-0019	A510	9905-114-1334	A006
5940-557-4398	A328	6105-135-0019	A590	9905-114-1334	A007
5940-813-0698	A263	6105-135-0020	A309	9905-114-1334	A008
5940-813-0698	A649	6105-490-5787	A314	REF NO. MFC	CO. ITEM SEQ. NO.
5940-999-7091	A169	6115-065-8530	A425	AD42AH 0770	7 A360
5940-999-7091	A170	6115-065-8530	A429	AD42AH 0770	7 A362
5945-257-0317	A187	6115-065-8530	A433	AD42AH 0770	7 A364
5961-018-9194	A106	6210-176-4928	A158	AN960C10 8804	4 A259
5961-134-6864	A615	6210-176-4928	A159	AN960C10 8804	4 A303
5961-722-1480	Al00	6210-176-4928	A160	AN960C10 8804	4 A458
5961-722-1480	A101	6210-176-4928	A247	AN960ClOL 8804	4 A304
5961-722-1480	A102	6210-176-4928	A248	AN960ClOL 8804	
5961-722-1480	A103	6210-176-4954	A167	AN960C10L 8804	4 A381
5961-722-1480	AlO4	6210-176-4954	A252	AN960C10L 8804	4 A397
5961-722-1480	A105	6210-176-4955	A166	AN960C10L 8804	4 A407
5961-722-1480	A230A	6210-176-4955	A251	AN960C10L 8804	
5961-855-1065	A099	6210-176-4956	A168	AN960C10L 8804	, Т
5961-892-0988	A107	6230-168-0153	A266	AN960C10L 8804	4 A574
5961-892-0988	Al08	6230-168-0153	A581	AN960C10L 8804	
5961-902-1177	A109	6240-155-7836	A164	AN960C4 8804	
5961-902-1177	AllO	6240-155-7836	A165	AN960C4 8804	
5961-907-8275	A078	6240-155-7836	A249	AN960C4 8804	

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FEDERAL STOCK NUMBER	1.1	ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	1 1	ITEM SEQUENCE NUMBER
REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
AN960C4	88044	A562	J14269-1	76005	A598	MS15795-807	96906	A125
AN960C4	88044	A643	J14269-1	76005	A599	MS15795-807	96906	A181
AN960C4	88044	A647	J14269-1	76005	A600	MS15795-807	96906	A185
AN960C4L	88044	A242	K7000-06-9	75237	A385	MS15795-808	96906	A050J
AN960C416L	88044	A312	K7001-04-6	75237	A057	MS15795-808	96906	A135
AN960C6	88044	A279	K7001-04-6	75237	A060	MS15795-808	96906	A189
AN960C6	88044	A292C	к7001-04-6	75237	A336	MS15795-814	96906	A368
AN960C6	88044	A305	K7001-04-6	75237	A337	MS15795-818	96906	A271
AN960C6	88044	A334	K7001-04-6	75237	A338	MS15795-910	96906	A289
AN960C6	88044	A439	LC35GT2	25072	A166	MS16624-18	96906	A467
AN960C6	88044	A660	LC35GT2	25072	A251	MS16995-10	96906	A468
an960c616L	88044	A401	LC35RT2	25072	A167	MS16995-10	96906	A511
AN960C616L	88044	A404	LC35RT2	25072	A252	MS16995-11	96906	A389
AN960C616L	88044	А599В	LC35WT2	25072	A168	MS16995-11	96906	A529
AN960C616L	88044	A600B	LH89-1	25072	A158	MS16995-11	96906	A613
BZ2RQ1A2	91929	A637	LH89-1	25072	A159	MS16995-17	96906	A023
BZ2RQ1A2	91929	A638	LH89-1	25072	A160	MS16995-19	96906	A278
ско6вх223к	81349	A071	LH89-1	25072	A247	MS16995-19	96906	A300
ско6вх223к	81349	A072	LH89-1	25072	A248	MS16995-29	96906	A630
CSR13F476K	81349	A073	MILS22473GRADEAA	81349	A069A	MS16995-29	96906	A633
CSR13F476K	81349	A074	MILS22473GRADEAA	81349	A230B	MS16995-51	96906	A411
EGP8E24L8	15291	A272	MI LW16878TYPEE16AWG	81349	A230E	MS16995-61	96906	A614
FB46-2	71041	A485	MILW16878TYPEE22AWG	81349	A230C	MS16995-9	96906	A468A
FB46-2	71041	A486	MILW16878TYPEE8AWG	81349	A230F	MS16996-10	96906	A299
FB46-2	71041	A487	MR1217SL	04713	A615	MS16996-11	96906	A376
FB46-2	71041	A488	MS15795-801	96906	A608	MS16996-11	96906	A396
FB46-2	71041	A489	MS15795-803	96906	A115	MS16996-12	96906	A380
FB46-2	71041	A490	MS15795-803	96906	A130	MS16996-12	96906	A482
FB46-2	71041	A491	MS15795-803	96906	A512	MS16996-39	96906	A400
FHS1-420-16	46384	A320	MS15795-805	96906	A024	MS16996-39	96906	A403
FHS1=420-16	46384	A321	MS15795-805	96906	A139	MS16998-27	96906	A237
FHS1-420-16	46384	A322	MS15795-805	96906	A144	MS171431	96906	A507
FHS1-420-16	46384	A323	MS15795-805	96906	A200	MS171433	96906	A622
FT9	96906	A050M	MS15795-805	96906	A216	MS171496	96906	A499
HFR3	73134	A375	MS15795-805	96906	A221	MS171497	96906	A521
HFR3	73134	A621	MS15795-807	96906	A019	MS171498	96906	A502
J14269 – 1	76005	A597	MS15795-807	96906	A120	MS171498	96906	A504

FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
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REF NO.	MFG CO.	ITEM SEQ , NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
MS171500	96906	A496	MS20426A3-5	96906	A421	MS25082-1	96906	A442
MS171524	96906	A602	MS20426A3-6	96906	A415A	MS25082-1	96906	A447
MS171524	96906	A603	MS20470B2-2	96906	A566	MS25082-3	96906	A572
MS171524	96906	A604	MS21042-6	96906	A599A	MS25082-3	96906	A601
MS171524	96906	A605	MS21042-6	96906	A600A	MS25082-3	96906	A616
MS171526	96906	A553	MS21060L3	96906	A415B	MS25082B4	96906	A284
MS171588	96906	A454	MS21083C04	96906	A591	MS25171-2S	96906	A452C
MS17160-36	96906	A027	MS21083C3	96906	A298	MS25196-1	96906	A253
MS17160-36	96906	A029	MS21209C0620	96906	A465	MS25196-1	96906	A254
MS17160-36	96906	A031	MS21209F8-15	96906	A358	MS25237-327	96906	A164
MS17160-36	96906	A033	MS21318-13	96906	A256	MS25237-327	96906	A 165
MS17160-36	96906	A035	MS21318-14	96906	A233	MS25237-327	96906	A249
MS17160-36	96906	A037	MS24693C24	96906	A325	MS25237-327	96906	A250
MS17160-36	96906	A039	MS24693C3	96906	A192	MS25237-330	96906	A163
MS17160-36	96906	A041	MS24693C6	96906	A592	MS3102R18-1P	96906	A2 39
MS17160-36	96906	A043	MS25036-101	96906	A263	MS3102R18-1S	96906	A112
MS17160-36	96906	A045	MS25036-101	96906	A649	MS3102R32 -5P	96906	Al 17
MS17160-36	96906	A047	MS25036-102	96906	A209	MS3102R32-6S	96906	A122
MS17160-36	96906	A049	MS25036-103	96906	A210	MS3213-34	96906	A301
MS17160-36	96906	A441	MS25036-103	96906	A650	MS3213-35	96906	A302
MS17160-36	96906	А446	MS25036-106	96906	A211	MS35333-108	96906	A290
MS17349N28B	96906	A137	MS25036-106	96906	A655	MS35338-135	96906	A116
MS18066-8	96906	A372	MS25036-107	96906	A197	MS35338-135	96906	A131
MS20426A3-4	96906	A052	MS25036-107	96906	A651	MS35338-135	96906	A241
MS20426A3-4	96906	A054	MS25036-108	96906	A212	MS35338 -135	96906	A291
MS20426A4-4	96906	A028	MS25036-108	96906	A652	MS35338-135	96906	A391
MS20426A4-4	96906	A030	MS25036-115	96906	A213	MS35338-135	96906	A470
MS20426A4-4	96906	A032	MS25036-115	96906	A653	MS35338-135	96906	A563
MS20426A4-4	96906	A034	MS25036-116	96906	A654	MS35338-135	96906	A594
MS20426A4-4	96906	A036	MS25036-148	96906	A327	MS35338-135	96906	A644
MS20426A4-4	96906	A038	MS25036-148	96906	A328	MS35338-135	96906	A648
MS20426A4-4	96906	A040	MS25036-153	96906	A656	MS35338-136	96906	A025
MS20426A4-4	96906	A042	MS25036-154	96906	A657	MS35338-136	96906	A140
MS20426A4-4	96906	A044	MS25043-18C	96906	A142	MS35338+13€	96906	A145
MS20426A4-4	96906	A046	MS25043-32C	96906	A141	MS 35338-136	96906	A199
MS20426A4-4	96906	A048	MS25081-1	96906	A229	M\$35338-136	96906	A217
MS20426A4-4	96906	A050	MS25081-1	96906	A230	MS35338-136	96906	A222

FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
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REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ . NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
MS35338-136	96906	A223	MS35338-138	96906	A458A	MS51830-202L	96906	A494
MS35338-136	96906	A227	MS35338-138	96906	A483	MS51830-204L	96906	A635A
MS35338-136	96906	A228	MS35338-138	96906	A575	MS51831-201	96906	A570
MS35338-136	96906	A292B	MS35338-138	96906	A619	MS51957-1	96906	A514
MS35338-136	96906	A306	MS35338-139	96906	A292	MS51957-1	96906	A596
MS35338-136	96906	A428	MS35338-139	96906	A414	MS51957-13	96906	A170A
MS35338-136	96906	A432	MS35338-141	96906	A369	MS51957-14	96906	A343
MS35338-136	96906	A436	MS35338-141	96906	A401A	MS51957-14	96906	A561
MS35338-136	96906	A440	MS35340-43	96906	A238	MS51957-15	96906	A642
MS35338-136	96906	A445	MS35489-43	96906	A555	MS51957-15	96906	A646
MS35338-136	96906	A450	MS35489-43	96906	A556	MS51957-17	96906	A240
MS35338-136	96906	A463	MS35489-43	96906	A557	MS51957-18	96906	A129
MS35338-136	96906	A537	MS35489-43	96906	A558	MS51957-18	96906	A346
MS35338-136	96906	A541	MS35489-43	96906	A559	MS51957-2	96906	A393
MS35338-136	96906	A545	MS35649-2254	96906	A410	MS51957-28	96906	A138
MS35338-136	96906	A549	MS35649-244	96906	A113	MS51957-28	96906	A143
£35338-136	96906	A579	MS35649-244	96906	A128	M851957-28	96906	A198
4 835338 - 136	96906	A661	MS35649-244	96906	A285	MS51957-28	96906	A333
4835338 - 136	96906	A665	MS35649-284	96906	A118	MS51957-30	96906	A311
MS35338-137	96906	A020	MS35649-284	96906	A123	MS51957-30	96906	A426
4S35338-137	96906	A069	MS35649-284	96906	A180	MS51957-30	96906	A430
MS35338-137	96906	A121	MS35649-284	96906	A184	MS51957-30	96906	A434
MS35338-137	96906	A126	MS35650-304	96906	A133	MS51957-30	96906	A438
MS35338-137	96906	A182	MS35650-304	96906	A452	MS51957-30	96906	¥##3
MS35338-137	96906	A186	MS35650-304	96906	A456	MS51957-30	96906	A448
MS35338-137	96906	A631	MS39020-31	96906	A005	MS51957-30	96906	A461
4S35338-137	96906	A634	MS39020-31	96906	A006	MS51957-30	96906	A535
4835338 - 138	96906	A050K	MS39020-31	96906	A007	MS51957-30	96906	A539
4835338 - 138	96906	A136	MS39020-31	96906	A008	MS51957-30	96906	A543
4S35338-138	96906	A190	MS45904-76	96906	A015	MS51957-30	96906	• A547
4535338 - 138	96906	A218	MS51021-10	96906	A497	MS51957-30	96906	A577
4S35338-138	96906	A260	MS51021-9	96906	A500	MS51957-31	96906	A220
4S35338-138	96906	A378	MS51032-62	96906	A329A	MS51957-31	96906	A225
4S35338-138	96906	A382	MS51032-62	96906	A330A	MS51957-31	96906	A663
4S35338-138	96906	A398	MS51830-102L	96906	A509	MS51957-32	96906	A659
4S35338-138	96906	A408	MS51830-103L	96906	A294	MS51957-33	96906	A215
MS35338-138	96906	A452B	MS51830-201L	.96906	A636	MS51957-36	96906	A292E

FEDERAL STOCK NUMBER	1 1	ITEM Sequence Number	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER	, .	ITEM SEQUENCE NUMBER
+				- 1 1	+	+		
REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
MS51957-45	96906	A018	NAS620C6	80205	A536	R8-32X3-4	02310	A124
MS51957-70	96906	A258	NAS620C6	80205	A540	SCD647000	80063	A471
MS51958-60	96906	A188	NAS620C6	80205	A544	SS10K80	03481	A335
MS51958-61	96906	A050L	NAS620C6	80205	A548	SS6B160	03481	A154
MS51958-62	96906	A406	NAS620C6	80205	A578	SS6B160	03481	A155
MS51958-62	96906	A617	NAS620C6	80205	A664	SF12G6CBB5D	12324	A415
MS51958-64	96906	A457	NAS620C6L	80205	A313	TY23M	59730	A230H
MS51958-64	96906	A573	P323ZND	00656	A422	TY24M	59730	A230G
MS51959-14	96906	A288	P38KDDFS381	21335	A315	TY535M	59730	A425
MB51959-27	96906	A068	P38KDDFS381	21335	A315A	TY535M	59730	A429
MS51959-82	96906	A412	QQW31+3	81348	A050N	TY535M	59730	A433
MS51960-66	96906	A235	RC20GF123J	81349	A081	T02L57	03038	A153
MS90310-311	96906	A203	RC20GF181J	81349	A082	T62L57	03038	A152
MS90310-311	96906	A261	RC20GF201J	81349	A083	V71074NSR05	31356	A201
MS90726-110	96906	A270	RC20GF220J	81349	A084	V74022NSR05	31356	A202
M890726-58	96906	A367	RC20GF220J	81349	A085	ZPZ045	98003	A349
MS90726-60	96906	A014	RC20GF301J	81349	A086	ZPZ045	98003	A350
MS91528-1E2B	96906	A161	RC20GF301J	81349	A087	ZPZ045	98003	A351
MS91528-1K2B	96906	A162	RC20GF301J	81349	880a	ZPZ045	98003	A352
489353-04	96906	A423	RC20GF470J	81349	A089	ZPZ045	98003	A353
189353-04	96906	A424	RC20GF470J	81349	A090	1N3026B	04713	A099
45601	74400	A174	RC20GF622J	81349	A091	1N4005	04713	Al00
MAS1351CO1-5	80205	A607	RC42GF121J	81349	A092	1N4005	04713	AlOl
MAS1598CO4R	80205	A243	RC42GF181J	81349	A093	1N4005	04713	A102
VAS1598C08R	80205	A156	RC42GF181J	81349	A094	1N4005	04713	Al03
IAS1598C08R	80205	A157	RC42GF181J	81349	A095	ln4005	04713	Al04
IAS1598C4R	80205	A286	RN60E1003F	81349	A096	1N4005	04713	A105
IAS1676C1	80205	A609	RN60E6812F	81349	A097	1N4005	04713	A230A
IAS620C4	80205	A347	RTV103	01139	A340A	1N4734A	04713	A106
IAS620C416L	80205	A413	RTV156	01139	A384	10-107232-6P	12143	A455
IAS620C6	80205	A226	RTV156	01139	A551	10-107232-6S	12143	A132
IAS620C6	80205	A427	RTV156	01139	A639A	10-107632-6P	12143	A009
IAS620C6	80205	A431	RTV156	01139	A640A	10-107632-6s	12143	A010
IAS620C6	80205	A435	RTV156	01139	A668	10-130999-28	12143	A011
AS620C6	80205	Аффф	R10-32X3-4	02310	A134	10-130999-28	12143	A012
AS620C6	80205	A449	R4-40X5-8	02310	All4	10-242067-285	12143	A003
AS620C6	80205	A462	R8-32X3-4	02310	Al19	10-242067-285	12143	A004
42								

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FEDERAL STOCK Number		ITEM SEQUENCE NUMBER	FEDERAL STOCK Number		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
		1				<u> </u>	1 1	
REF NO.	MFG CO.	ITEM SEQ, NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
10007	07047	A075	1126517-1	12705	A340B	1126571-3	12705	A194
10007	07047	A076	1126521	12705	A179	1126571-5	12705	A195
10007	07047	A077	1126521	12705	A183	1126571-5	12705	A196
10026	07047	A078	112652 8-1	12705	080A	1126572-1	12705	A193
10026	07047	A079	1126529-7	12705	A466	1126573-1	12705	A586
1122311-1	12705	A269	1126530-3	12705	A481	1126574-1	12705	A587
1122322-1	12705	A564	1126533-1	12705	A070	1126575-1	12705	A318
1122328-1	12705	A266	1126534-1	12705	A453	1126577-1	12705	A319
1122328-1	12705	A581	1126535-1	12705	A388	1126578-1	12705	A625
1122330-1	12705	A383	1126535-7	12705	A394	1126578-1	12705	A626
1122337-1	12705	A460	1126537-1	12705	A620	1126579-1	12705	A627
1122337-3	12705	A464	1126537-3	12705	A623	1126580-1	12705	A527
1122341-7	12705	A611	1126538-1	12705	A324	1126582-1	12705	A399
1122346-1	12705	A513	1126544-1	12705	A326	1126582-1	12705	A402
1122346-1	12705	A595	1126546-7	12705	A293	1126588-1	12705	A606
122352-1	12705	A473	1126547-1	12705	A341	1126589-1	12705	A340
1122360-3	12705	A366	1126549-3	12705	A026	1126590-1	12705	A409
1122370-1	12705	A666	1126550-3	12705	A022	1126591-1	12705	A505
1122403-1	12705	A361	1126551-1	12705	A295	1126591-3	1.2705	A508
1122404-1	12705	A363	1126552-1	12705	A348	1126591-5	12705	A506
1126502-3	12705	A515	1126553-3	12705	A571	1126594	12705	A292A
1126504-1	12705	A518	1126554-1	12705	A451	1126596-3	12705	A354
1126505-1	12705	A386	1126555-1	12705	A276	1126597-1	12705	A510
1126506-1	12705	A501	1126556-1	12705	A017	1126597-1	12705	A590
1126506-3	12705	A503	1126557-3	12705	A016	1126599-1	12705	A287
1126507-1	12705	A522	1126561-1	12705	A567	1126831-1	12705	A002
1126507-1	12705	A524	1126561-3	12705	A569	1126833-3	12705	A013
.126508-1	12705	A520	1126562-1	12705	A021	1126834-1	12705	A236
1126509-1	12705	A387	1126564-1	12705	A308	1126835-3	12705	A273
126510-1	12705	A371	1126566-1	12705	A610	1126904-1	12705	A265
126510-3	12705	A373	1126567-1	12705	A612	1126904-1	12705	A267
.126510-5	12705	A374	1126568-1	12705	A395	1126904-1	12705	A582
126511-1	12705	A498	1126570-1	12705	A055	1126911-1	12705	A639
126514-1	12705	A628	1126570-1	12705	A058	1126911-11	12705	A640
126515-3	12705	A493	1126570-3	12705	A056	1126913-1	12705	A480
126515-5	12705	A493	1126570-3	12705	A059	1126919-1	12705	A245
.126515=7	12705	A494A	1126571-1	12705	A191	1126919-1	12705	A257
	2014)	,		25,07	,2			1.2,

FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
+	1 1					 	$\dashv \vdash$	
REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
1126922-1	12705	A246,	1128310-1	12705	A560	357001	75915	A538
1126924-3	12705	A001	1128312-1	12705	A437	357001	75915	A542
1126925-3	12705	A635	1128349-1	12705	A528	357001	75915	A546
1126926-1	12705	A379	1128350-1	12705	A365	363-11-10-010	71785	A171
1126934-1	12705	A495	1128350-1	12705	A667	363-11-10-010	71785	A584
1126940-3	12705	A234	1128364-7	12705	A297	363-11-23-010	71785	A172
1126941-1	12705	A231	1129403-1	12705	A588	366-11-03-010	71785	A585
1126942-1	12705	A552	1129403-1	12705	A589	366-11-03-011	71785	A173
1126943-1	12705	A405	1130-21	04946	A452E	422-13-11-026	71785	A169
1126951-3	12705	A151	1471	83330	A342	422-13-11-026	71785	A170
1126970-1	12705	A150	15B5-3	18915	A051	43	03355	A485A
1126971-21	12705	A283	1585-3	18915	A053	43	03355	A486A
1126971-7	12705	A277	2-1448613-6	02697	A477	43	03355	A487A
1126985-1	12705	A255	2-1458613-6	02697	A476	43	03355	A488A
1126985-2	12705	A232	2-2308613-6	02697	A474	43	03355	A489A
1126985-3	12705	A359	2-3328613-6	02697	A475	43	03355	A490A
1126988-1	12705	A580	2-378613-6	02697	A479	43	03355	A491A
1126994-1	12705	A624	2-385613-6	02697	A478	4327	00141	A568
1126995-1	12705	A472	2N1597	04713	A107	4427-995-3A	44655	A098
1127001-1	12705	A264	2N1597	04713	A108	5L7F	96881	A392
1127010-1	12705	A576	2N2646	04713	A109	50FKC420	70318	A310
1127018-1	12705	A146	2N2646	04713	A110	51L51-2AA	71286	A355
1127018-1	12705	A244	2N1711	81349	A111	5100-25	79136	A519
1127019-1	12705	A147	28C4-1-10A	82647	A067	5144-25	79136	A523
1127019-1	12705	A148	20504-5	02101	A309	5144-25	79136	A525
1127019-1	12705	A149	251-15-30-160	71785	A127	524572	80201	A317
1127019-1	12705	A275	313001	75915	A532	5710-96-63	86928	A205
1127660-1	12705	A331	313001	75915	A533	5722-21-4A	86928	A665A
1127661-1	12705	A281	32-341	27191	A177	5722-27-2A	86928	•
1127662-1	12705	A274	32-341		A178	601D367F150JT4	56289	A531 A050A
1127666-1		A274 A550	352-15-02-001	27191	A345	601D367F150JT4	56289	•
1127667-5	12705 12705	A329	353-11-10-001	71785	A219	601D367F150JT4	56289	A050B
1127667-7	12705			71785	A662	601D367F150JT4	56289	A050C
1127681-3	12705	A330 A282	353-11-10-001 353-11-23-001	71785	A002 A224	601D367F150JT4	56289	A050E
				71785				A050F
1127686-5	12705	A332	356-11-03-001	71785	A214	601D367F150JT4	56289	A050G
1128308-1	12705 12705	A339 A565	356-11-03-001 357001	71785 75915	A658 A534	6156 6156	98270 98270	A050H A641
			27,002	12742			>-210	ere-ra

FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER	FEDERAL Stock Number		ITEM SEQUENCE NUMBER	FEDERAL STOCK NUMBER		ITEM SEQUENCE NUMBER
	$\dashv \vdash$		1	<u> </u>	+	 		+
REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.	REF NO.	MFG CO.	ITEM SEQ. NO.
6156	98270	A645						
7064-758	35344	A187						
7500-10	02697	A459						
7500-3-8	02697	A370						
7500–6	02697	A280						
7500–6	02697	A307						
77032	02101	A316						
77032	02101	A316A						
78320	02101	A314						
3428-55-1037-7	06540	A050I						
3481	83330	A530						
3525	83330	A629						
3525	83330	A632						
3906к1626	27191	A204						
3906KI 626	27191	A262						
936271	05301	A268						
336271	05301	A583						
)505-06	19738	A296						
)55LS2RG	98003	A356						
955LS2RG	98003	A357						

SECTION V INDEX-REFERENCE DESIGNATION CROSS-REFERENCE TO ITEM SEQUENCE NUMBER

REFERENCE DES I GNAT ION	ITEM SEQUENCE NUMBER	REFERENCE DESIGNATION	ITEM SEQUENCE NUMBER	REFERENCE DESIGNATION	ITEM SEQUENCE NUMBER
 	 	 	- I	1	H ———
42	4066		4620	3404hmh o	
Al	A266	1A2A11MP2	A610	1A2A4H4-2	A523
Al	A581	1A2A11MP3	A 612	1A2A4H5-2	A525
AlDS1	A268	1A2A12	A560	1A2A4H6-1	A519
AlMP1	A267	1A2A12H1-4	A566	1A2A4H7-1	A496
H1-3	A272	1A2A12MP1	A564	1A2A4H8-1	A502
H2-4	A237	lA2Al2MP2	A565	1A2A4H9-1	A504
H3-4	A238	1A2A13	A590	1A2A4MP1	A495
H4-4	A014	1A2A13B1	A595	1A2A4MP10	A503
H5-4	A015	1A2A13MP1	A596	1A2A4MP11	A485
H6-4	A271	1A2A2	A371	1A2A4MP11MP1	A485A
H7-4	A270	1A2A2MP1	A373	1A2A4MP12	A486
MP1	A264	1A2A2MP2	A374	1A2A4MP12MP1-1	A486A
MP2	A265	1A2A3	A409	1A2A4MP13	A487
MP2	A269	1A2A3H2-2	A421	1A2A4MP13MP1-1	A487A
MP2	A582	1A2A3H2-4	A415A	1A2A4MP14	A488
1	A273	1A2A3H3-2	A415B	1A2A4MP14MP1-1	A488A
1A1	A348	1A2A3MP1	A415	1A2A4MP15	A489
1A1MP1	A355	1A2A4	A481	1A2A4MP15MP1-1	A489A
LAIMP13	A354	1A2A4A1	A492	1A2A4MP16	A490
LALMP2	A349	1A2A4A1MP1	A493	1A2A4MP16MP1-1	A490A
LA1MP3	A350	1A2A4A1MP2-1	A494	1A2A4MP17	A491
1A1MP4	A351	1A2A4A1MP3	А494А	1A2A4MP17MP1-1	A491A
1A1MP5	A352	1 45 4485	A505	1A2A4MP19	A531
lalmp6	A353	1A2A4A2H1-1	A507	1A2A4MP2	A498
LA1MP7	A356	1A2A4A2MP1	A508	1A2A4MP3	A527
lalmp8	A357	1A2A4A2MP2	A506	1A2A4MP4	A520
lalmp9-la	A358	1A2A4A2MP3-6	A509	1A2A4MP5	A522
LA2	A366	1A2A4A3	A510	1A2A4MP6	A524
18281	A460	1A2A4A3B1	A513	1A2A4MP7	A501
la2alMPl	A464	1A2A4A3MP1	A514	1A2A4MP8	A518
1A2A1MP2	A465	1A2A4H1-1	A512	la2a4mp9	A515
la2al0	A379	1A2A4H10-1	A521	1A2A4S5	A528
LA2A10MP1	A383	1A2A4H11-1	A497	1A2A5	A388
LA2A1OMP2	A385	1A2A4H12-2	A529	1A2A5H1-1	A393
LA2A10MP3-1	A384	1A2A4H13-4	A511	1A2A5MP1	A393 A394
LA2A11	A606	1A2A4H14-2			
1A2A11 1A2A11H1-8			A500	1A2A5MP2	A392
	A613	1A2A4H16-2	A499	1A2A6	A620
LA2AllMP1	A61.1	1A2A4H2-2	A530	1A2A6MP1	A623

SECTION VINDEX-REFERENCE DESIGNATION CROSS-REFERENCE TO ITEM SEQUENCE NUMBER (CONTINUED)

REFERENCE DES I GNAT 10N	ITEM SEQUENCE NUMBER	REFERENCE DESIGNATION	ITEM SEQUENCE NUMBER	REFERENCE DESIGNATION	ITEM SEQUENCE NUMBER
<u> </u>	┥ ├───┤ │	<u> </u>	 	 	
1A2A6MP2	A621	1A2E25	A649	1A2E58	A655
1A2A6MP3	A622	1A2E26	A649	1A2E59	A655
1A2A7	A567	1A2E27	A649	1A2E6	A649
1A2A7MP1	A569	1A2E28	A649	1A2E60	A655
1A2A7MP2-10	A570	1A2E29	A649	1A2E61	A656
1A2A8	A471	1A2E3	A571	1A2E62	A656
1A2A8A1	A472	1A2E30	A649	1A2E63	A656
1A2A8A1FL1	A473	1A2E31	A649	1A2E64	A656
1A2A8A1MP1	A474	1A2E32	A649	1A2E65	A656
1A2A8A1MP2	A475	1A2E33	A649	1A2E66	A657
1A2A8A1MP3	A476	1A2E34	A649	1A2E67	A657
la2a8almp4	A477	1A2E35	A649	1A2E68	A657
1A2A8A1MP5	A478	1A2E36	A649	1A2E7	A649
1A2A8A1MP6	A479	1A2E37	A649	1A2E8	A649
1A2A8MP1	A480	1A2E38	A649	1A2E9	A649
1A2A9	A635	1A2E39	A650	1A2F1	A532
1A2A9MP1-2	A635A	1A2E4	A451	1A2F2	A533
1A2A9MP3-4	A636	1A2E4MP1	A452C	1A2H1-1	A387
1A2CR1	A615	LA2E4W2	A452E	1A2H1-1	A400
1A2C1	A422	1A2E40	A650	1A2H10-1	A543
1A2DS1	A583	1A2E41	A651	1A2H100-4	A592
1A2E1	A645	1A2E42	A651	1A2H102-4	A591
1A2E10	A649	1A2E43	A652	1A2H103-1	A630
1A2E11	A649	1A2E44	A652	1A2H104-1	A633
1A2E12	A649	1A2E45	A652	1A2H105-3	A452
1A2E13	A649	1A2E46	A652	1A2H106-1	A454
1A2E14	A649	1A2E47	A653	1A2H107-3	A452A
1A2E15	A649	1A2E48	A653	1A2H108-3	A452B
1A2E16	A649	1A2E49	A653	1A2H11-1	A539
1A2E17	A649	1A2E5	A649	1A2H12-1	A535
1A2E18	A649	1A2E50	A653	1A2H13-1	A547
1A2E19	A649	1A2E51	A653	1A2H14-2	A461
1A2E2	A641	1A2E52	A653	1A2H15-4	A577
1A2E20	A649	1A2E53	A653	1A2H16-1	A438
1A2E21	A649	1A2E54	A653	1A2H17-2	A443
1A2E22	A649	1A2E55	A654	1A2H18-2	A448
1A2E23	A649	1A2E56	A654	1A2H19-1	A434
1A2E24	A649	1A2E57	A654	1A2H2~1	A403

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1A2H2O-4	A663	1A2H54-1	A548	1A2H87-1	A378
1A2H21-4	A659	1A2H55-2	АНН	1A2H88-1	A619
1A2H22-4	A412	1A2H56-2	A449	1A2H89-8	A414
1A2H23-4	A573	1A2H57 - 1	A435	1A2H9-1	A426
1A2H24-4	A411	1A2H58-1	A431	1A2H90-4	A572
1A2H25-4	A561	1A2H59 - 1	A427	1A2H91-1	A616
1A2H26-6	A607	1A2H6-1	A646	1A2H92-2	A442
1A2H27-4	A482	1A2H60-12	A413	1A2H93-1	a665a
1A2H28-4	A380	1A2H61-6	A609	1A2H93-2	A447
1A3H29-1	A468	1A2H62-1	A631	1A2H94-8	A410
1A2H29-1	A468A	1A2H63-1	A634	1A2H95-1	A372
1A2H32	A389	1A2H64-4	A594	1A2H96-6	A608
1A2H3O-1	A406	1A2H65 - 1	A470	1A2H97-1	A401
1A2H31-1	A617	1A2H66-2	A391	1A2H98-1	A401A
1A2H32-1	A376	1A2H67-4	A563	1A2H98-1	A404
1A2H33-2	A396	1A2H68-1	A648	1A2H99-1	A467
1A2H34-1	A469	1A2H69-1	A644	1A2J1	A455
1A2H35-2	A390	1A2H7-1	A642	1A2MP1	A386
1A2H36-4	A562	1A2H70-2	A463	1A2MP10	A597
1A2H37-1	A647	1A2H71-4	A579	1A2MP11	A598
1A2H38-1	A643	1A2H72-1	A440	1A2MP12	A599
1A2H39-1	A439	1A2H73-4	A665	1A2MP13	A600
1A2H4-1	A553	1A2H74-4	A661	1A2MP14	A552
1A2H40-4	A 660	1A2H75 - 1	A545	1A2MP15	A405
1A2H41-4	A484	1A2H76+1	A541	1A2MP16	A625
1A2H42-2	A397	1A2H77-1	A537	1A2MP17	A626
1A2H43-4	A574	1A2H78 - 1	A549	1A2MP18	A399
1A2H44-4	A381	1A2H79-2	A445	1A2MP19	A402
1A2H45-2	A407	1A2H8-1	A430	1A2MP2	A628
142446-1	A377	1A2H80-2	A450	1A2MP20	A580
1A2H47-1	A618	1A2H81-1	A436	1A2MP21	A624
1A2H48-2	A462	1A2H82-1	A432	1.A2MP22	A 576
1A2H49-4	A578	1A2H82-4	A483	1A2MP23	A550
1A2H5-4	A568	1A2H83-1	A428	1A2MP24	A437
1A2H50-4	A664	1A2H83-2	A398	1A2MP25	A586
1A2H51-1	A544	1A2H84-4	A575	1A2MP26	A588
1A2H52-1	A540	1A2H85-4	A382	1A2MP27	A589
1A2H53-1	A536	1A2H86-2	A408	1A2MP28	A584

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1A2MP29	A585	1A2S4	A640	1A3A4A1MP3	A321
1A2MP3	A466	1A2S4MP1-1	A640A	1A3A4A1MP4	A322
1A2MP30	A375	1A2TB1	A658	1A3A4A1MP5	A323
1A2MP31	A542	1A2TB2	A662	1434442	A309
1A2MP32	A546	1A2XF1	A534	1A3A4A2E1	A314
1A2MP33	A425	1A2XF2	A538	1A3A4A2E2	A316
1A2MP34	A429	1A3	A276	1A3A4A2E3	A316A
1A2MP35	A555	1A3A1	A277	1A3A4A2MP1	A315
1A2MP36	A556	1A3A1C1	A292A	1A3A4A2MP2	A315A
1A2MP37	A557	1A3A1H1-2	A287	1A3A4E1	A327
1A2MP38	A558	1A3A1H14-2	A292B	1A3A4E2	A328
1A2MP39	A559	lagalh15-2	A292C	1A3A4H1-3	A325
1A2MP ¹ 4	A587	1A3A1H16-2	A292E	1A3A4H2-4	A311
1A2MP40	A423	1A3A1H2-4	A284	1A3A4H3-4	A310
1A2MP41	A424	1A3A1H3-2	A289	1A3A4H4-4	A313
1A2MP42	A629	1A3A1H4-2	A292	1A3A4H54	A312
1A2MP43	A632	1A3A1H5-2	A290	1A3A4MP1	A324
1A2MP44	A602	1A3A1H6-3	A291	1A3A4MP2	A329
1A2MP45	A603	lagalh7-2	A286	1A3A4MP2H1	A329A
1A2MP46	A604	1A3A1H8-3	A285	1A3A4MP3	A330
1A2MP47	A605	1A3A1H9-3	A288	1A3A4MP3H1	A330A
1A2MP48	A614	lagalmPl	A282	1A3A4MP4	A308
1A2MP49	A601	1A3A1MP2	A281	1A3A4MP5	A326
1A2MP5	A453	lagairi	A283	1A3A4MP6	A317
1A2MP51	A441	1A3A2	A293	1A3H10-3	A307
1A2MP52	A446	1A3A2MP1-4	A29 ¹ 4	1A3H11-2	A347
1A2MP53	A433	1A3A2MP5	A295	1A3H12-1	A344
1A2MP54	A600A	1A3A2MP6-11	A296	1A3H13-10	A279
1A2MP55	A600B	1A3A3	A332	1A3H14-3	A334
1A2MP56	A599A	1A3A3MP1	A336	1A3H15-4	A305
1A2MP57	А599В	1A3A3MP2	A337	1A3H16-4	A306
1A2MP58	A551	lasasmps	A338	1A3H17-1	A304
1A2MP6	A395	1A3A3MP4	A339	1A3H19-4	A301
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1A2S1	A637	1A3A4	A297	1A3H2O-2	A302
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1A2S3	A639	1A3A4A1MP1	A319	1A3H3-2	A346
1A2S3MP1-1	A639A	1A3A4A1MP2	A320	1A3H4~1	A343
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	l		 	<u> </u>	
1A3H5-3	A333	2AlalmP28	A154	2Ala2MPl	A026
1A3H6-10	A278	2AlalmP29	A155	2AlA2MP10	A043
1A3H7-1	A299	2A1A1MP30	A156	2AlA2MP11	A045
1A3H9-4	A300	2AlalmP31	A157	2A1A2MP12	A047
1A3H9-10	A280	2AlA2	A022	2AlA2MP13	A049
1A3MP1	A342	2A1A2C6	A050G	2AlA2MPl4	A051
1A3MP2	A341	2Ala2El	A050H	2A1A2MP15	A053
1A3MP3	A331	2A1A2E10	A050H	2AlA2MP16	A050I
1A3MP4	A340	2A1A2E102	AO50M	2Ala2MP2	A027
1A3MP5	A340B	2A1A2E103	AO50M	2Ala2MP3	A029
1A3MP6-1	A340A	2A1A2E11	А050Н	2AlA2MP4	A031
1A3TB3	A345	2A1A2E12	A050H	2AlA2MP5	A033
1H1-4	A367	2AlA2El3	A050H	2A1A2MP6	A035
1H10-4	A456	2Ala2E2	А050Н	2Ala2MP7	A037
1H2-4	A368	2AlA2E3	A050H	2Ala2MP8	A039
1H3-4	A370	2Ala2E4	A050H	2AlA2MP9	A041
1H4-4	A369	2Ala2E5	A050H	2A1A2M17	A050N
1H5-4	A364	2A1A2E6	A050H	2AlA3	A070
1H6-4	A362	2Ala2E7	A050H	2AlA3CR10	A105
1H7-4	A360	2Ala2E8	A050H	2AlA3CR2	A100
1H7-4	A457	2A1A2E9	A050H	2AlA3CR3	A101
1H8-4	A458	Salashi-s	A028	2AlA3CR5	A106
1Н82-4	A458A	2A1A2H10-2	A046	2AlA3CR6	A102
1H9-4	A459	2A1A2H11-2	A048	2AlA3CR7	A099
1MP1	A363	2A1A2H12-2	A050	2AlA3CR8	A103
1MP2	A361	2A1A2H13-2	A052	2AlA3CR9	A104
1MP3	A359	2A1A2H14-2	A054	2AlA3Cl	A073
1MP4	A275	2A1A2H15-2	A050J	2A1A3C2	A074
1MP5	A666	2A1A2H16-2	A050K	2A1A3C3	A071
IMP6	A274	2A1A2H17-2	A050L	2A1A3C4	A072
lmp7	A365	SWIWSHS-5	A030	2AlA3MP1	A075
1MP7	A667	2A1A2H3-2	A032	2AlA3MP2	A076
1MP8	A668	2A1A2H4-2	A034	2AlA3MP3	A077
2	A013	2A1A2H5-2	A036	2AlA3MP4	A078
2A1	A016	2A1A2H6-2	A038	2AlA3MP5	A079
2AlAl	A151	2A1A2H7-2	A040	2AlA3PC1	A080
2AlAlMP1-13	A152	2A1A2H8-2	A042	2A1A3Q1	A109
2A1A1MP2-14	A153	2A1A2H9-2	A044	2A1A3Q2	Alll

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2A1A3Q3	AllO	2AlC3	A050C	2A1E42	A209
2A1A3Q4	A107	2AlC4	A050E	2AlE43	A209
2A1A3Q5	Alo8	2A1C5	A050F	2Alehp	A209
2AlA3Rl	A086	2AlDS1	A164	2AlE45	A209
2A1A3R10	A094	2AlDS2	A165	2A1E46	A209
2AlA3R11	A095	2AlDS3	A163	2A1E47	A209
2AlA3Rl2	A083	2AlElOO	A213	2A1E48	A209
2AlA3Rl3	A098	2AlElO1	A197	2AlE49	A209
2AlA3Rl4	A 090	2A1E13	A209	2A1E50	A209
2AlA3R15	A085	2AlEl4	A209	2A1E51	A209
2Ala3R16	A096	2AlEl 5	A209	2A1E52	A209
2AlA3R17	A087	2A1E16	A209	2AlE53	A209
2A1A3R18	A088	2AlE17	A209	2AlE54	A209
2Ala3R2	A097	2A1E18	A209	2A1E55	A209
2Ala3R3	A084	2A1E19	A209	2A1E56	A209
2Ala3R4	A089	2A1E20	A209	2A1E57	A209
2Ala3R5	A091	2A1E21	A209	2ALE58	A209
2A1A3R6	A092	2A1E22	A209	2A1E59	A209
2AlA3R7	A081	2AlE23	A209	2A1E60	A209
2ALA3R8	A082	2A1E24	A209	2AlE61	A209
2AlA3R9	A093	2AlE25	A209	2A1E62	A209
2AlA4	A191	2AlE26	A209	2AlE63	A209
2AlA4MPl	A194	2A1E27	A209	2A1E64	A209
2AlA4MP2	A195	2AlE28	A209	2A1E65	A209
2AlA4MP3	A196	2A1E29	A209	2A1E66	A209
2Ala4MP4	A193	2A1E30	A209	2A1E67	A209
2AlA5	A058	2AlE31	A209	2A1E68	A209
2AlA5MPl	A059	2AlE32	A209	2A1E69	A209
2AlA5MP2	A060	2AlE33	A209	2AlE70	A209
2Ala6	A055	2A1E34	A209	2AlE71	A209
2AlA6MP1	A056	2A1E35	A209	2AlE72	A209
2AlA6MP2	A057	2AlE36	A209	2AlE7 3	A210
2AlCBl	A067	2A1E37	A209	2A1E74	A210
2AlCBlMP1-1	A069A	2A1E38	A209	2AlE75	A210
2AlCR11	A230A	2AlE39	A209	2Ale76	A210
2AlC1	A050A	2AlE40	A209	2AlE77	A211
2AlC2	A050B	2AlE41	A209	2AlE78	A211

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2A1E80	A211	2A1H27-4	A121	2A1H62-1	A199
2A1E81	A211	2A1H28-4	A126	2A1H63-1	A200
2AlE82	A211	2A1H29-2	A069	2A1H7-4	A216
2A1E83	A211	2A1H3-4	A024	2A1H8-#	A019
2AlE84	A211	2A1H31-3	A186	2A1H9-#	A120
2AlE85	A211	2A1H32~4	A136	2AlJ1	A117
2Ale86	A211	2A1H33~2	A190	2 A 1J2	A112
2A1E87	A211	2A1H34-6	A218	2AlJ3	A132
2A1E88	A211	2A1H36~4	A113	2A1J4	A122
2A1E89	A211	2A1H37~2	A128	2AlJ5	A127
2AlE90	A211	2A1H38-4	All8	2A1K1	A187
2A1E91	A212	2A1H39-4	A123	2AlK2	A179
2A1E92	A212	2A1H4-2	A139	2AlK3	A183
2A1E93	A213	2A1H4-2	A144	2AlMP10	A142
2A1E94	A213	2A1H40~3	A184	2AlmP11	A141
2AlE95	A213	2A1H41~4	A133	2AlMP12	A229
2A1E96	A213	2A1H42~2	A129	2AlMP13	A230
2ALE97	A213	2A1H43-4	A215	2AlMP14	A162
2A1E98	A213	2A1H44-2	A138	2AlMP15	A161
2A1E99	A213	2A1H44-2	A143	2AlMP16	A166
2A1H1-4	A115	2A1H45-4	A023	2AlMP17	A167
2A1H10-4	A125	2A1H46-4	A220	2AlMP18	A168
2A1H12-3	A185	2A1H47-8	A225	2AlMP19	A177
2A1H13-4	A135	2AlH48-4	A018	2AlMP2	A150
2A1H14-2	A189	2A1H49-2	A188	2A1MP2O	A178
2A1H16-4	All6	2A1H5-4	A221	2A1MP21	A169
2A1H17-2	A131	2A1H51-2	A192	2A1MP22	A170
2A1H18-4	A025	2A1H53-2	A068	2Almp23	A171
2A1H2-2	A130	2A1H54-4	All4	2Almp24	Al72
2A1H20-2	A140	2A1H56-4	A124	2AlmP25	A173
2A1H20-2	A145	2A1H55-4	All9	2AlmP26	Al70A
2A1H21-4	A222	2A1H57-4	A134	2AlmP27	A158
2A1H22-20	A223	2A1H58-3	A180	2ALMP28	A159
2A1H23-8	A227	2A1H59-3	A181	2AlMP29	A160
2A1H24-42	A228	2A1H6-8	A226	2ALMP3	A017
2A1H25-4	A217	2A1H60-3	A182	2AlMP30-1	A230B

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2A1MP32	A230H	3E9	A263		
2AlmP4	A146	зн1-6	A259		
2AlmP5	Al47	3H2-4	A242		
2Almp6	A148	зн3-6	A258		
2ALMP7	A149	3H4-4	A240		
2AlmP8	A021	3H5-4	A241		
2A1MP9	A137	зн6-6	A260		
2A1M1	A174	3H7-4	A243		
2AlSl	A202	зн8-4	A256		
2A1S2	A204	3J1	A239		
2A1S3	A203	3MP1	A246		
2A1S4	A201	3MP10	A247		
2AlTB1	A 214	3MP11	A248		
2AlTB2	A224	3MP2	A257		
2AlTB3	A219	3MP3	A245		
2AlW1	A230C	3MP4	A244		
2A1W2	A230E	3MP5	A253		
2AlW3	A230F	3MP6	A254		
2A152MP1	A205	3MP7	A252		
2H1-12	A235	3MP8	A251		
2H2-4	A233	3MP9	A255		
2MP1	A23 ¹ 4	3S1	A262		
2MP2	A231	382	A261		
2MP3	A232	ħМ	A002		
3	A236	4WMP1	A004		
3DS1	A249	14MMP2	A003		
3DS2	A250	4WMP3	A012		
3E1	A263	#MM5#	A011		
3E10	A263	4WMP5	A005		
3E11	A263	4 WM P6	A006		
3E12	A263	14MMP7	A007		
3E2	A263	4wmp8	800A		
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Capacitor bank:				3-29	8-15
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Troubleshooting	8-7 ,	8-6,		9-8	9-13
o .	8-12	8 - 8		7-8	7 - 3
Replacement	9 - 3	9 - 2			
Circuit-card assembly:			Lamp ignition and arc-sustaining group:		
Troubleshooting	8-6,	8-2,	arouping or	2 - 2	2 - 1
8	8-12	8-8	o per union	2 - 4	2 - 2
Replacement	9-3	9 - 2	Limit switches, infrared filter:		
Control box (See CONTROL, SEARCH	LIGHT		Troubleshooting		8-11
SET C-7905/VSS-3:			240 2400 2400 2400 2400 2400 2400 2400	9 - 8	9-13
Troubleshooting	8-7-	8 - 6 -	Limit switch, focus motor assembly:		
0	8-12	8 - 8	Troubleshooting		8-11
			Replacement	9 - 8	9 - 13

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	Paragraph	Page		Paragraph	Page
LOCAL/REMOTE switch (Control switch	eh):		Relay, power:		
Operation	2 - 3	2 - 2	Operation	2 - 3	2 - 2
Troubleshooting	8-6,	8-2,	Troubleshooting	8-6,	8-2,
	8-12	8 - 8		8-12	8 - 8
Test procedures	8-10	8 - 7	Actuation test	8-11	8 - 7
Replacement	9 - 3	9 - 2	Replacement	9 - 3	9 - 2
Maintenance:			Relay, temperature control:	9 9	2 - 2
Scope of	7 - 1	7 - 1	Operation	2-3	
General	1-1	1-1	Troubleshooting	8-6,	8-2,
Major components:		1 1	A contract of	8-12	8 - 8
Block diagram grouping	2 - 2	2 - 1	Actuation test		8 - 7
Reference designators	7 - 4	7 - 2	Replacement	9 - 3	9 - 2
Mode control group:	, 1	1 - 2	Remote control box (See Control,		
Grouping of	2 - 2	2 - 1	Searchlight Set C-7906/VSS-3)		
	2 - 5	2-3	Schematic, Searchlight Set		
Operation	2-3	2-3	(figure 9-13)		
	2 - 6	2 - 3	Searchlight (See Searchlight Infrared		
Operation	8-24	2-3 8-13	MX-8272/VSS-3)		
Troubleshooting	9-9	8-13 9-22	Searchlight Infrared		
Replacement	9-9	9-22	MX-8272/VSS-3 (Searchlight):		
	2 - 5	2 - 3		0.6	0 9
Operation	8-6.	2-3 8-2.	Troubleshooting	8-6	8-2,
Troubleshooting	/	- ,		8-17,	8-10,
Adjustment	8-20	8-11	Danlacement of parts in	8-20	8-11
Adjustment	8-30	8-16	Replacement of parts in	9-7,	9-11,
Replacement of parts in	9 - 8	9-13	SPREAD BEAM-COMPACT BEAM swi	9-8	9-13
	9 5	0 0		ten	
Operation	2-5	2-3	(See Beam switch)	9 6	0 0
Troubleshooting	8-6,	8-2,	Switches, temperature-controlled	2 - 6	2 - 3
D. I.	8-20	8-11	Switch test procedures:	8-10	0.7
Replacement	9 - 8	9-13	Control box switches		8-7
Parta:			Remote control box switches Filter limit switches	8-16 8-20	8-10
Substitution	7 - 7	7 - 3	Filter littlit Switches	8-20	8-11
Replacement of, in control box	9 - 3	9 - 2	Test equipment required	7-10	7 - 4
Replacement of, in remote	0 0	٠	Tools and Materials required	7 - 9	7 - 3
control box	9 - 6	9 - 9	Troubleshooting:		
Replacement of, in searchlight	9 - 8	9-13	Based on starting procedure	8 - 1 -	8-1,
Replacement of, in heat exchanger		0 10	0 1	8 - 6	8 - 2
Replacements of, general	9 - 9	9-22	Techniques	7 - 2	7 - 2
Plenum assembly, replacement	9 - 1	9-1	Data	7 - 3	7 - 2
	9 - 9	9-22	Of control box		8 - 6 -
Power control group:		0 22		8-12	8-8
General	2 - 2	2 - 1	Of printed circuit board	9 - 5	9 - 8
Operation	2 - 3	2 - 2	Of remote control box		8-9,
Preliminary checks	2 0	~ ~		8-16	8-10
and adjustments	8 - 4	8 - 2	Of searchlight		8-10,
Preliminary control settings	8 - 5	8 - 2	8	8-20	8-11
Publications, indexes of	1 - 2	1-1	Of heat exchanger		8-13
i ubileutions, muches of	. ~			8-24	
Reference designators:			Of power cable		8-14
General	1 - 4	1 - 1	F	8-27	0 1 1
Location chart	7 - 4	7 - 2			
Reflector:			Wiring Diagrams,		
Operation	2 - 5	2 - 3	(figure 9-14 through 9-16)		
Replacement	9 - 8	9-13	Yanan lamp assambly		
Relay, delay turn off:			Xenon lamp assembly:	2-5,	9 9
Operation	2 - 3	2 - 2	Operation	2-3, 2-6	2 - 3
Troubleshooting	8-6,	8-2,	Troublachooting	2-6 8-6,	8-2,
5	8-12	8 - 8	Troubleshooting	8-0, 8-20	8-2, 8-11
Actuation test	8-11	8 - 7	Donlacoment	9-8	8-11 9-13
Replacement	9 - 3	9 - 2	Replacement	<i>3</i> - 0	9-13
•					

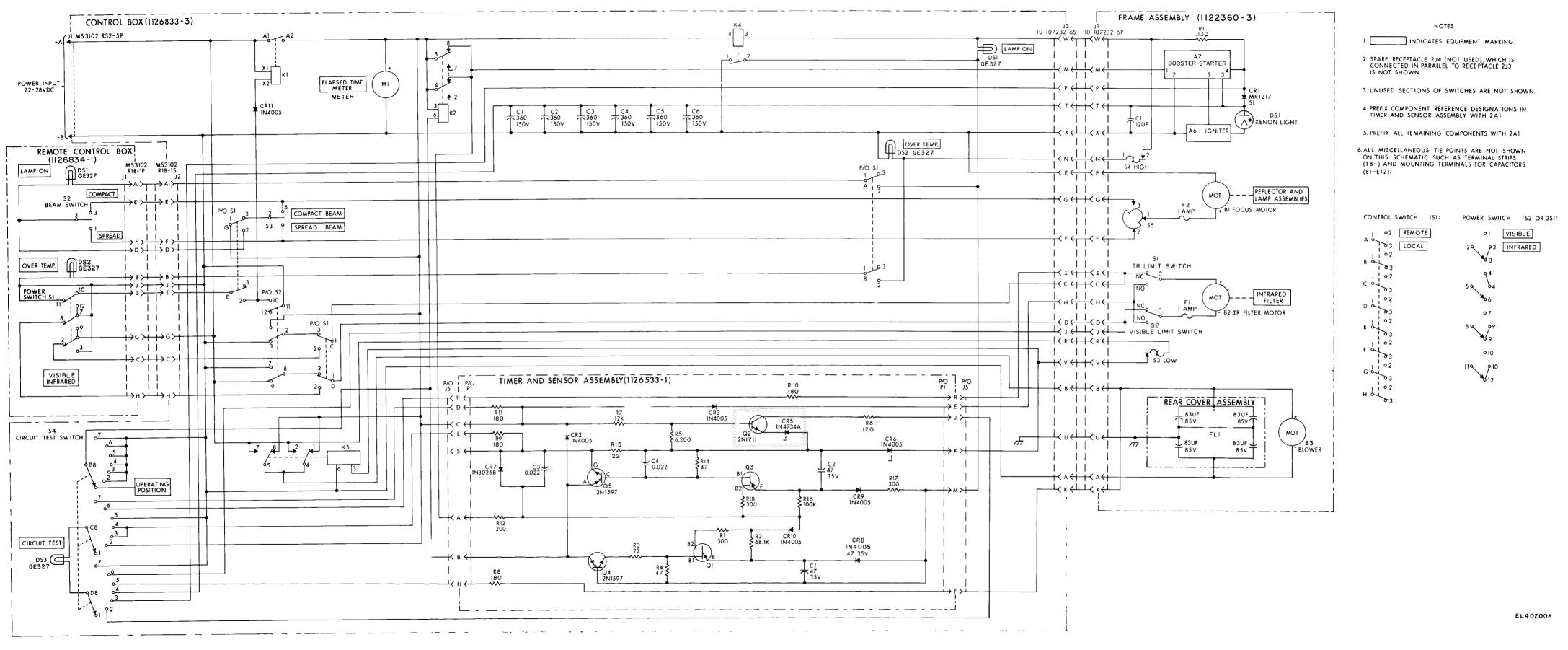


Figure 9-15. 1 k W Searchlight set schematic.

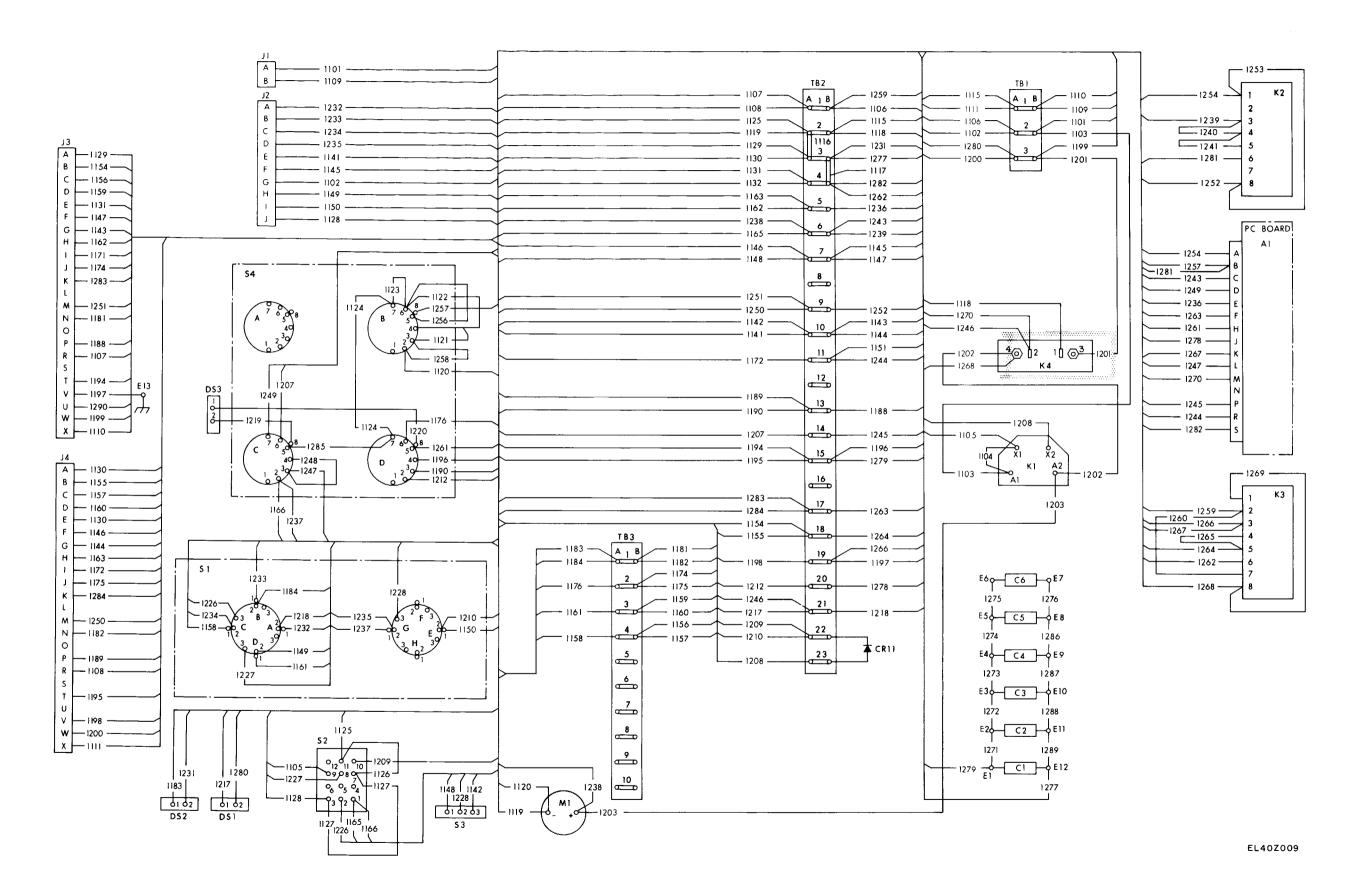
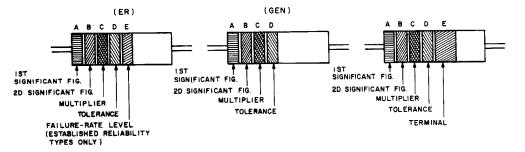


Figure 9-17. Control box wiring diagram.



COLOR CODE MARKING FOR COMPOSITION TYPE RESISTORS.

COLOR-CODE MARKING FOR FILM-TYPE RESISTORS.

COLOR CODE FOR COMPOSITION TYPE AND FILM TYPE RESISTORS.

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

BAND A - THE FIRST SIGNIFICANT FIGURE OF THE RESISTANCE VALUE

(BANDS A THRU D SHALL BE OF EQUAL WIDTH.)
BAND B — THE SECOND SIGNIFICANT FIGURE OF THE RESISTANCE VALUE.

BAND C - THE MULTIPLIER (THE MULTIPLIER IS THE FACTOR BY WHICH THE TWO SIGNIFICANT FIGURES ARE MULTIPLIED TO YIELD THE

NOMINAL RESISTANCE VALUE.)

BAND D --- THE RESISTANCE TOLERANCE.

BAND E — WHEN USED ON COMPOSITION RESISTORS, BAND E INDICATES
ESTABLISHED RELIABLITY FAILURE — RATE LEVEL. ON FILM
RESISTORS, THIS BAND SHALL BE APPROXIMATELY 1-1/2 TIMES THE
WIDTH OF OTHER BANDS, AND INDICATES TYPE OF TERMINAL.

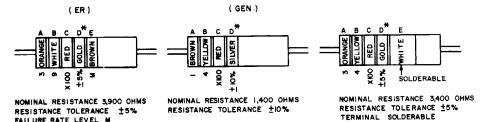
RESISTANCES IDENTIFIED BY NUMBERS AND LETTERS (THESE ARE NOT COLOR CODED)

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

2R7 = 2.7 OHMS | IORO = 10.0 OHMS

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

EXAMPLES OF COLOR CODING

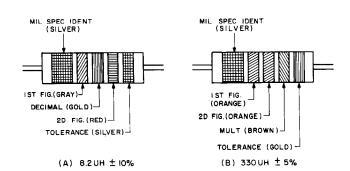


COMPOSITION-TYPE RESISTORS

FILM - TYPE RESISTORS

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

A. COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS.



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

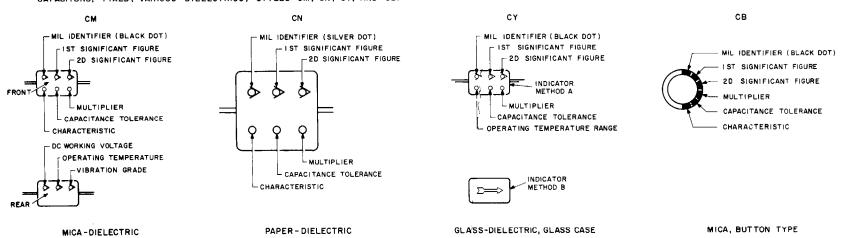
TABLE 2
COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES.

COLOR	SIGNI- FICANT FIGURE	MULTIPLIER	TOLERANCE (PERCENT)
BLACK	0	ŀ	
BROWN	1	10	1
RED	2	100	2
ORANGE	.3	1,000	3
YELLOW	4		
GREEN	5		
BLUE	6		
VIOLET	7		
GRAY	8	[
WHITE	9		
NONE			20
SILVER			10
GOLD	DECIMAL	POINT	5

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

B. COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.

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



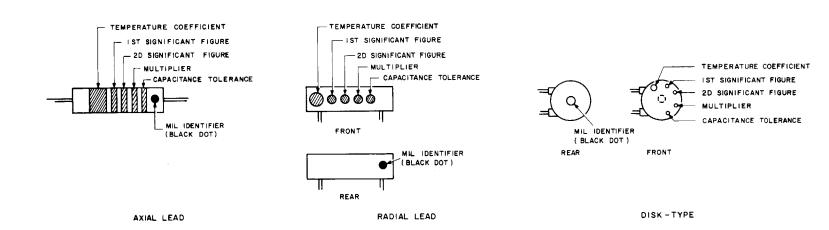


TABLE 3 - FOR USE WITH STYLES CM, CN, CY AND CB.

COLOR	MIL IST 2D SIG SIG		SIG SIG	IG SIG	SIG SIG	MULTIPLIER	CAPAC	ITANC	É TOLE	RANCE	CHAR	ACTE	RISTIC	DC WORKING VOLTAGE	OPERATING TEMP: RANGE	VIBRATION GRADE
		FIG.	FIG.		CM	CN	CY	СВ	CM	CN	СВ	CM	CY, CM	CM		
BLACK	CM, CY CB	0	0	1			±20%	±20%		Α			-55° _{TO} +70°C	Ю-55 Н Z		
BROWN		1	ı	10					В	Ε	В					
RED		2	2	100	±2%		±2%	±2%	С				-55° _{TO} +85℃			
ORANGE		3	3	1,000		±30%			D		D	300				
YELLOW		4	4	10,000					Ε				-55° _{TO} +125°C	10-2,000H		
GREEN		5	5		±5%				F			500				
BLUE		6	6										-55° _{TO} +150°C			
PURPLE (VIOLET)		7	7													
GREY		В	8													
WHITE		9	9													
GOLD				0.1			±5%	±5%								
SILVER	CN		T		±10%	±10%	±10%	±10%								

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TABLE 4 — TEMPERATURE COMPENSATING, STYLE CC.

	TEMPERATURE	IST	2D		CAPACITANCE	TOLERANCE	MIL
COLOR	COEFFICIENT 4	SIG FIG.	SIG FIG.	MULTIPLIER	CAPACITANCES OVER 10 UUF	CAPACITANCES 10 UUF OR LESS	ΙD
BLACK	۰	0	0	ı		± 2.0 UUF	СС
BROWN	-30	-	1	10	±1%		
RED	-80	2	2	100	<u>+</u> 2 %	± 0.25 UUF	
ORANGE	-150	3	3	1,000			
YELLOW	-220	4	4				
GREEN	-330	5	5		±5%	± 0.5 UUF	
BLUE	-470	6	6				
PURPLE (VIOLET)	-750	7	7				
GREY	L	8	8	0.01			
WHITE		9	9	0.1	±10%		
GOLD	+100					±1.0 UUF	
SILVER							

- L THE MULTIPLIER IS THE NUMBER BY WHICH THE TWO SIGNIFICANT (SIG) FIGURES ARE MULTIPLIED TO OBTAIN THE CAPACITANCE IN UUF.
- 2. LETTERS INDICATE THE CHARACTERISTICS DESIGNATED IN APPLICABLE SPECIFICATIONS: MIL-C-5, MIL-C-250, MIL-C-112728, AND MIL-C-10950C RESPECTIVELY.
- LETTERS INDICATE THE TEMPERATURE RANGE AND VOLTAGE-TEMPERATURE LIMITS DESIGNATED IN MIL-C-11015D.
- 4. TEMPERATURE COEFFICIENT IN PARTS PER MILLION PER DEGREE CENTIGRADE.

C. COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS.

Figure 10-5. Resistor-inductor-capacitor color code chart.

By Order of the Secretary of the Army:

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

Official:

VERNE L. BOWERS, Major General, United States Army, The Adjutant General.

Distribution:

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Active Army:
    USASA (2)
                                             USAOC&S (3)
    CNGB (1)
                                             USAFAS (5)
    USACDC (2)
                                             USAIS (5)
    USACDCCEA (1)
                                            USAES (3)
    USACDCCEA
                                            USATC Armor (2)
     Ft Huachuca (1)
                                            USACDCEC (10)
    USAMB (10)
                                            SigFLDMS (1)
                                            Army Depots (1) except
    USAMC (1)
    CONARC (5)
                                              LEAD (7)
    OS Maj Cored (5)
                                              TOAD (50)
    LOGCOMD (2) except
                                              SAAD (5)
      2nd LOGCOMD (10)
                                              ATAD (5)
                                             GENDEP (2)
    Armies (5) except
                                            Sig Dep (3)
     8th USA (15)
                                            Sig Sec GENDEP (3)
    USARV (20)
                                            Units org under fol TOE:
    USAARENBD (2)
    USAECOM (10)
                                              (2 cys ea)
    MAAG (1)
                                              11-158
    USARMIS (1)
                                              11-500(AA-AC)
    USAARMS (5)
```

NG: None USAR: None

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

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

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THE METRIC SYSTEM AND EQUIVALENTS

'NEAR MEASURE

Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches

1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches

1 Kilometer = 1000 Meters = 0.621 Miles

YEIGHTS

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces

1 Kilogram = 1000 Grams = 2.2 lb.

1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches

1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet

1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

 $5/9(^{\circ}F - 32) = ^{\circ}C$

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {\circ}F$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	10	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	
Fluid Ounces	Milliliters	
nts	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	
Cubic Meters	Cubic Feet	
Cubic Meters	Cubic Yards	
Milliliters	Fluid Ounces	
Liters	Pints	2.113
Liters	Quarts	1.057
`ers	Gallons	0.264
.ms	Ounces	0.035
.ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
meters per Hour	Miles per Hour	0.621



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