GRIMES DIVISION/FL AEROSPACE CORPORATION

TO: HOLDERS OF LANDING LIGHT PART NUMBER G-3600A (SERIES) OVERHAUL MANUAL WITH ILLUSTRATED PARTS LIST

HIGHLIGHTS

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GRIMES

OVERHAUL INSTRUCTIONS WITH ILLUSTRATED PARTS LIST

LANDING LIGHT

PART NUMBER
G3600A SERIES
SERIAL NO. 44470
AND SUBSEQUENT

GRIMES MANUFACTURING COMPANY

313 NORTH HUSSELL STREET, URBANA, OHIO 43078, U.S.A. • TELEPHONE (513) 652 1431 • TELETYPE: (810) 457,2852 • TELEY: 200, 450

LIGHTING EQUIPMENT FOR THE TRANSPORTATION INDUSTRY

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I. LEADING PARTICULARS

A. Electrical requirements for lamps and motors are as follows:

Landing Light part number	Lamp	Motor
G3600A1	28VDC	28VDC
G3600A2	28VDC	28VDC
G3600A3	28VDC	28VDC
G3600A5	28VDC	28VDC
G3600A7	28VDC	28VDC
G3600A9	28VDC	28VDC
G3602A1	13VDC	13VDC
G3602A2	13VDC	13VDC
G3602A3	13VDC	13VDC
G3602A5	13VDC	13VDC
G3602A7	13VDC	13VDC
G3603A1	13VDC	13VDC
G3603A2	13VDC	13VDC
G3603A3	13VDC	13VDC
G3603A5	13VDC	13VDC

B. Dimensions (inches):

Length	10.50 max
Height	4 375
Diameter (outer canopy)	8 00

C. Weight (pounds):..... 5.25 approx.

II. DISASSEMBLY

- A. Remove screws (Ref. 22, Fig. 2), retainer band assembly (21), lamp retainer (15) and lamp (16).
- B. Remove screws (25), lock washers (26) and power unit assembly (23). Refer to paragraph II G for disassembly procedures of the power unit assembly.
- C. Remove contact assemblies (27).
- D. Remove screws (28), lock washers (29) and insulator (30).
- E. Remove screws (33), lock washers (34) and side cover (31).
- F. Remove screws (41), lock washers (42) and control unit assembly (35) from light unit assembly (43). Refer to paragraph II H for disassembly procedures of the control unit assembly. Refer to paragraph II J for disassembly procedures of the light unit assembly.

- G. Disassemble the Power Unit Assembly as follows:
 - (1) Remove screws (Ref. 5, Fig. 3), lock washers (6) and cover (3).
 - (2) Do not remove identification plate (7) unless replacement is required.
 - (3) Remove brushes (12) from holders (15) and separate the holders by removing yokes (14) and spring (13).
 - (4) Remove retainer ring (18), washer (19) and armature assembly (16).
 - (5) Remove screws (22), lock washers (23) and field and block assembly (20) from housing assembly (25).
 - (6) Remove brake assembly (24).
 - (7) Remove screws (27), lock washers (28) and reduction assembly (consisting of items 29 through 37) from housing assembly (25).
 - (8) Remove screws (30) and brace assembly (29).
 - (9) Remove the four reduction gears (31, 32, 33 and 34) and retainers (35 and 36) from gear plate assembly (37).
- H. Disassemble Control Unit Assembly as follows:
 - (1) Remove cover (Ref. 8, Fig. 4).
 - (2) Unsolder and remove terminal assembly (7).
 - (3) Remove screw (17), lock washer (18), nut (16) and washer (15).
 - (4) Remove screw (19), lock washer (20), flat washer (21) and nut (22).
 - (5) Remove terminal screws (23), lock washers (25), flat washers (27) and nuts (29).
 - (6) Remove screws (11), lock washers (12), ground clip (13), connector (34) and relay assembly (9). Do not remove terminal (14) from relay assembly (9) unless replacement is required. Remove screws (32), lock washers (33) and contact post assemblies (31).
 - (7) Remove nut (36), lock washer (37), lamp terminal (35) and connector (38).

- (8) Remove screws (41), lock washers (42), nuts (43) and switch assembly (consisting of items 44 through 53).
- (9) Remove screws (46), lock washers (47), nuts (48), flat washers (49), actuators (50), insulators supplied with actuators and switches (45) from block (51). Remove terminal lugs (52 and 53).
- (10) Remove screw assembly (55) and actuator (54).
- (11) Remove screws (58), lock washers (59), actuator (60), insulator supplied with actuator, spacers (62) and switch (57). Do not remove terminal (61) unless replacement is required.
- (12) Remove screw (64), lock washer (65), retainer clips (66), stop spring (67), actuator assembly (68), washer (69) and post assembly (63).
- (13) Remove screw plug (70) from insert assembly (71).
- J. Disassemble Light Unit Assembly as follows:
 - (1) Remove shaft (Ref. 3, Fig. 5), felt wicking (4) and inner canopy assembly (2). Refer to paragraph II K for disassembly procedures for inner canopy assembly.
 - (2) Remove terminal screw (5), nuts (6), lock washers (7) and flat washer (8) from drive housing (26).
 - (3) Remove screws (10), insulator (9) and spacers (11).
 - (4) Remove screws (13), lock washers (14) and actuator arm assembly (12).
 - (5) Remove screws (16), lock washers (17), flat washers (18) and mechanism support assembly (consisting of items (19 through 26) from canopy (30).
 - (6) Remove screws (20) and plate (19).
 - (7) Do not remove felt strip (21) from drive housing (26) unless replacement is required.
 - (8) Remove screw (23), lock washer (24) and insulator (22).
 - (9) Remove gear and bracket assembly (25) from drive housing (26).
 - (10) Do not remove rivets (29) and instruction plate (28) from canopy (30) unless replacement is required.

- K. Disassemble Inner Canopy Assembly as follows:
 - (1) Remove bumper (Ref. 2, Fig. 6) from quadrant arm assembly (3).
 - (2) Remove screws (4), lock washers (5), washers (6), wire assembly (7) and quadrant arm assembly (3) from inner canopy (16).
 - (3) Do not remove receptacle (8) and terminal (9) from wire assembly (7A) unless replacement is required.
 - (4) Remove screws (12), lock washers (13), washers (14), nuts (15) and band assembly (11) from inner canopy (16).

III. CLEANING

A. Clean electrical parts with a clean, lint-free cloth moistened with isopropyl alcohol, Federal Specification TT-I-735, or equivalent. Allow to air dry.

WARNING: SOLVENT FUMES ARE TOXIC. PROLONGED INHALATION OF THE FUMES MAY CAUSE ILLNESS.

B. Clean metal parts with dry cleaning solvent, Federal Specification P-D-680, or equivalent.

IV. INSPECTION

A. General

The requirements are mainly for a close visual inspection for cracks, major defects and signs of abrasion, overheating etc., which indicates an unsatisfactory condition exists.

B. Riveted Parts

Check all riveted parts for loose or cracked rivets.

C. Gears

Visually inspect gears for signs of excessive abrasion, or chipped or missing gear teeth.

D. Electrical Parts

Visually inspect electrical parts for signs of overheating, damaged insulation and faulty solder joints.

V. REPAIR

Repair consists of replacement of defective parts.

VI. LUBRICATION

Refer to PREVENTIVE MAINTENANCE section.

GRIMES DIVISION/FL AEROSPACE CORPORATION OVERHAUL INSTRUCTIONS WITH ILLUSTRATED PARTS LIST PART NO. G3600A SERIES

VII. PREVENTIVE MAINTENANCE

- A. Lubricate gears and soak oil retainer felt (Ref. 34 and 35, Fig. 3) in oil, Military Specification MIL-L-6805, or equivalent, every 3000 cycles of operation or 3 years, whichever occurs first (including storage time).
- B. Inspect lamp lead flexure point for fraying after every 1500 cycles of operation.
- C. Inspect the canopy assembly for hinge and pivot bearing for excessive looseness, when re-lubricating the sector gear with grease, Military Specification MIL-G-23827, or equivalent.
- D. Check grommets, gaskets, limit switch seals and other non-metallic parts for deterioration due to age and exposure to cleaning fluids, hydraulic fluids and fuel, every 1500 cycles of operation or 2 years, whichever occurs first.
 - NOTE: Where exposure to the above fluids is frequent, particularly in the extended mode or frequent maintenance, the intervals of inspection should be established by the customer. Based on experience, with particular attention given to the condition of the sector gear lubrication.

VIII. ASSEMBLY

- A. Assemble Inner Canopy Assembly as follows:
 - (1) Install band assembly (Ref. 11, Fig. 6) on inner canopy (16) and secure with screws (12), lock washers (13), washers (14) and nuts (15).
 - (2) If removed during disassembly, crimp a replacement terminal (9) on the end of wire assembly (7A) and solder receptacle (8) on the other end. Solder per Grimes Specification S5-33022, or equivalent.
 - (3) Position quadrant arm assembly (3) and wire assembly (7) on inner canopy (16). Secure with screws (4), lock washers (5) and washers (6).
 - (4) Install bumper (2) on quadrant arm assembly (3).
- B. Assemble Light Unit Assembly as follows:
 - (1) If instruction plate (Ref. 28, Fig. 5) was removed during disassembly, attach a replacement instruction plate to canopy (30) with new rivets (29).
 - (2) If removed during disassembly, cement replacement felt strip (21) in place on drive housing (26) with RTV930 sealant, manufactured by Stauffer Chemical Co., Silicone Division, Matawan, N. J. 07747.
 - (3) Install plate (19) on drive housing (26) and secure with screws (20).
 - (4) Install insulator (22) on drive housing (26) and secure with screw (23) and lock washer (24).
 - (5) Install gear and bracket assembly (25) on drive housing (26).
 - (6) Attach mechanism support assembly (consisting of items 19 through 26) to canopy (30) with screws (16), lock washers (17) and flat washers (18).
 - (7) Install actuator arm assembly (12) on drive housing (26) and secure with screws (13) and lock washers (14).
 - (8) Install terminal screw (5), lock washers (7), flat washer (8) and nuts (6).

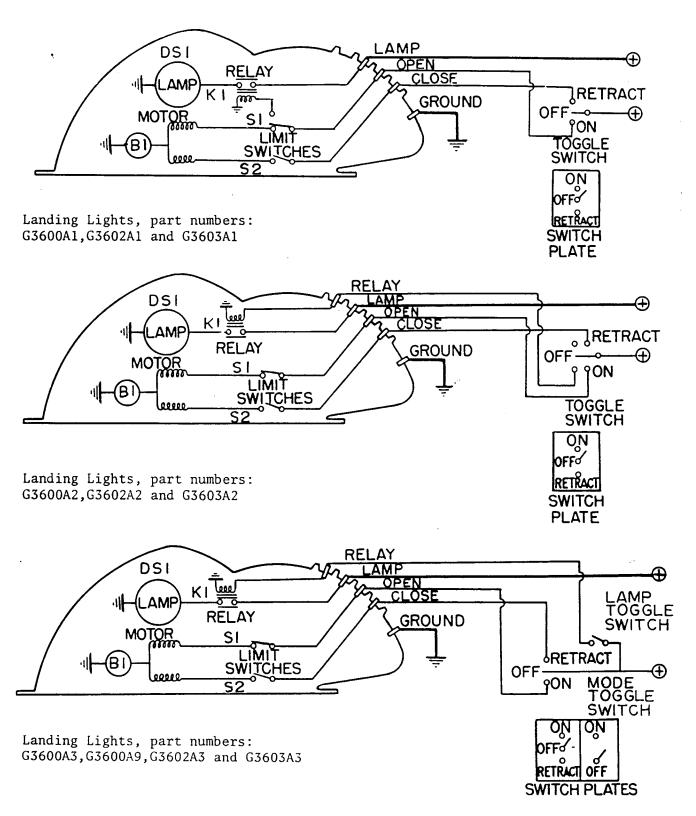
- (9) Install felt wicking (4) in drive housing (26).
- (10) Attach inner canopy assembly (2) to drive housing (26) with shaft (3).
- (11) Position spacers (11) and insulator (9) on drive housing (26) and secure with screws (10). Route the lamp lead from inner canopy assembly (2) under insulator (9).
- (12) Saturate felt wicking (4) with oil, per Federal Specification MIL-L-6085, or equivalent.
- C. Assemble Control Unit Assembly as follows:
 - (1) Install post assembly (Ref. 63, Fig. 4), washer (69), actuator assembly (68), stop spring (67) and retainer clips (66) on insert assembly (71) and secure with screw (64) and lock washer (65).
 - (2) Position spacers (62), actuator (60), insulator supplied with actuator and switch (57) on insert assembly (71) and secure with screws (58) and lock washers (59). If terminal (61) was removed during disassembly, crimp replacement terminal on switch wire lead. Install actuator (54) and secure with screw assembly (55).
 - (3) Install flat washers (49), actuators (50), insulators supplied with actuators and switches (45) on block (51) and secure with screws (46), lock washers (47) and nuts (48). Solder terminal lugs (52 and 53) to switches (45). Solder per Grimes Specification S5-33022, or equivalent.
 - (4) Install switch assembly (consisting of items 44 through 53) on insert assembly (71) and secure with screws (41), lock washers (42) and nuts (43).
 - (5) Install lamp terminal (35) and connector (38). Secure with lock washer (37) and nut (36).
 - (6) Install contact post assemblies (31) and secure with screws (32) and lock washers (33).
 - (7) Install terminal screws (23), connector (34), lock washers (25), flat washers (27) and nuts (29).

- (8) Install relay assembly (9) and ground clip (13). Secure with screws (11) and lock washers (12). If terminal (14) was removed during disassembly, crimp replacement terminal on relay wire lead. In place of relay assembly (9), install washer (15), nut (16), screw (17) and lock washer (18) on part numbers G3600A5, G3602A5 and G3603A5.
- (9) Install screw (19), lock washer (20), flat washer (21), terminal (14) and nut (22).
- (10) Install cover (8) and screw plug (70) on insert assembly (71).
- (11) Solder leads from the relay and limit switches to terminal assembly (7). Solder per Grimes Specification S5-33022, or equivalent.
- D. Assemble Power Unit Assembly as follows:
 - (1) Place the four reduction gears (Ref. 31, 32, 33 and 34, Fig. 3) and retainers (35 and 36) in gear plate assembly (37).
 - (2) Install brace assembly (29) and secure with screws (30).
 - (3) Place brake assembly (24) in housing assembly (25).
 - (4) Install field and block assembly (20) in housing assembly (25) and secure with screws (22) and lock washers (23).
 - (5) Install armature assembly (16) in housing assembly (25) and secure with washer (19) and retainer ring (18).
 - (6) Install brushes (12) in holders (15). Place yokes (14) on holders (15) and secure in place with spring (13). Slip the brush holder assembly (consisting of items 11 through 15) around the posts of the field and block assembly (20).
 - (7) Install cover (3) and secure with screws (5) and lock washers (6).
 - (8) Position reduction assembly (consisting of items 29 through 37) on motor assembly (consisting of items 12 through 25) and secure with screws (27) and lock washers (28).
 - (9) If previously removed, affix a replacement identification plate (7) on housing assembly (25).

- E. Assemble Landing Light as follows:
 - (1) Install control unit assembly (Ref. 35, Fig. 2) on light unit assembly (43) and secure with screws (41) and lock washers (42).
 - (2) Install insulator (30) and route terminal assembly (Ref. 7, Fig. 4) through the support and then secure with screws (Ref. 28, Fig. 2) and lock washers (29).
 - (3) Install contact assemblies (27).
 - (4) Install power unit assembly (23) and secure with screws (25) and lock washers (26).
 - (5) Install lamp (16) and lamp retainer (15).
 - (6) Install retainer band assembly (21) and secure with screws (22).
 - (7) Apply grease, per Federal Specification MIL-G-23827, or equivalent, to motor pinion and quadrant arm.
 - (8) Install side cover (31) and secure with screws (33) and lock washers (34).

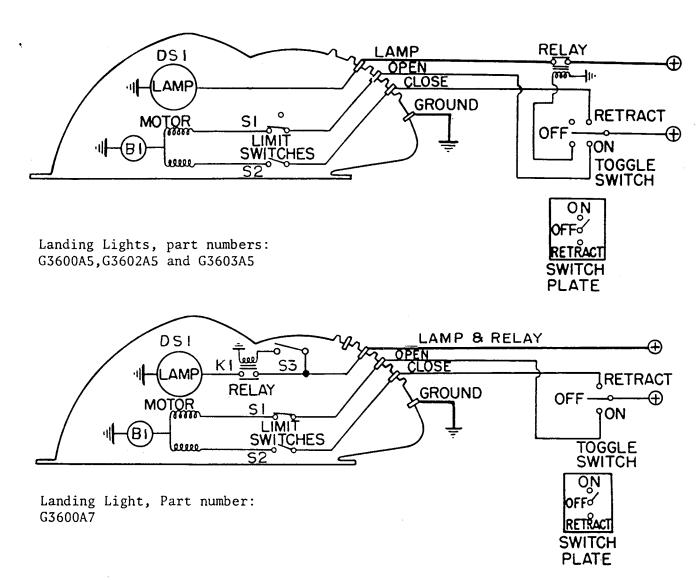
IX. TESTING - CHECKOUT

- A. Install the Landing Light on a bench mock-up with toggle switches as shown in Figure 1.
- B. Connect the Landing Light to a power source that will provide 13 VDC or 28 VDC according to requirements as shown in LEADING PARTICULARS.
- C. For Landing Lights, part numbers G3600A1, G3600A2, G3600A5, G3600A7, G3602A1, G3602A2, G3602A5, G3603A1, G3603A2 and G3603A5, place toggle switch in the "on" position. The lamp shall extend to a factory-set 90 ±3 degrees from the horizontal and lamp DS1 shall illuminate. Place the toggle switch in the "retract" position. The lamp shall retract fully and lamp DS1 shall go out. The angle at which the lamp comes on or turns off, will vary according to light requirements.
- D. For Landing Lights, part numbers G3600A3, G3600A9, G3602A3 and G3603A3, place the lamp toggle switch in the "on" position. Lamp DS1 shall illuminate. Place the mode toggle switch in the "on" position. The lamp shall extend to a factory-set 90 ±3 degrees from the horizontal. Place the mode toggle switch in the "retract" position. The lamp shall retract fully. Place the lamp toggle switch in the "off" position. Lamp DS1 shall go out.



Electrical Schematic Diagram Figure 1 (Sheet 1 of 2)

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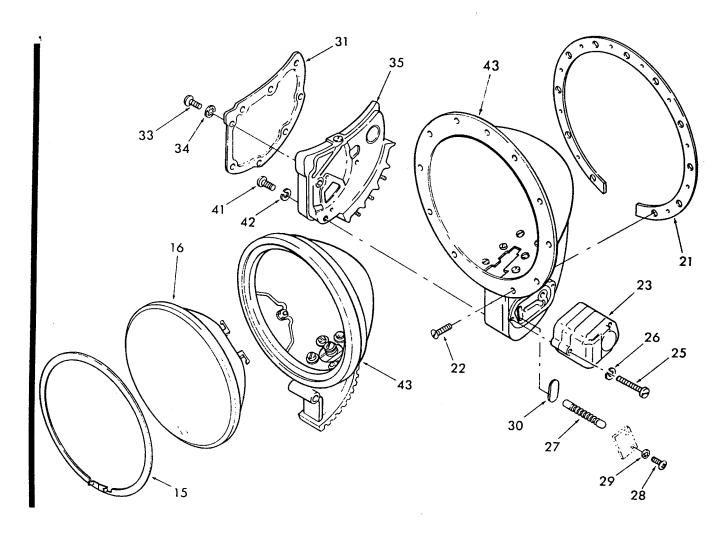


Electrical Schematic Diagram Figure 1 (Sheet 2 of 2)

X. ILLUSTRATED PARTS LIST

The following is a compilation of the vendor codes with the names and addresses of suppliers for purchased parts used in this illustrated parts list.

CODE	NAME AND ADDRESS
00779	AMP Inc. P. O. Box 3608 Harrisburg, Pa. 17105
91929	Honeywell Inc. Micro Switch Division Chicago and Spring Streets Freeport, Ill. 61032



Landing Light - Exploded View Figure 2

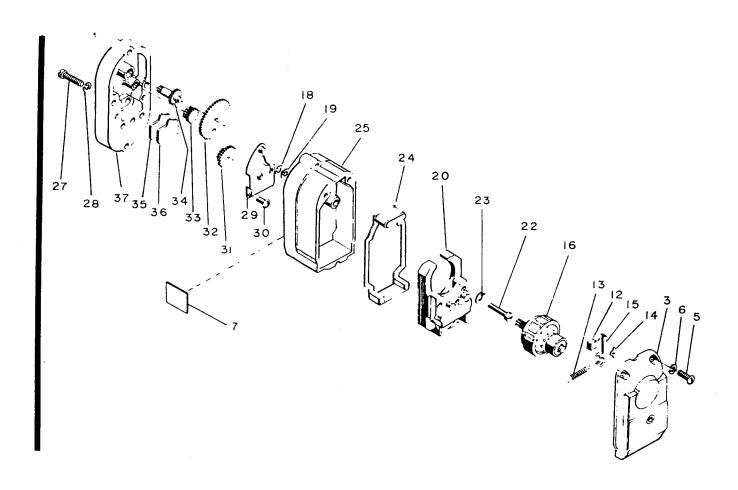
FIG. ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
2 -1	G3600A1	LIGHT, LANDING, EXPLOSION PROOF	Α	RF	ĺ
-2	G3600A2	LIGHT, LANDING, EXPLOSION PROOF	В	RF	ĺ
-3	G3600A3	LIGHT, LANDING, EXPLOSION PROOF	С	RF	ĺ
-4	G3600A5	LIGHT, LANDING, EXPLOSION PROOF	D	RF	
-5	G3600A7	LIGHT, LANDING, EXPLOSION PROOF	E	RF	ĺ
6	G3600A9	LIGHT, LANDING, EXPLOSION PROOF	F	RF	
-7	G3602A1	LIGHT, LANDING, EXPLOSION PROOF	G	RF	
-8	G3602A2	LIGHT, LANDING, EXPLOSION PROOF	Н	RF	
-9	G3602A3	LIGHT, LANDING, EXPLOSION PROOF	J	RF	į
-10	G3602A5	LIGHT, LANDING, EXPLOSION PROOF	К	RF	i.
-11	G3603A1	LIGHT, LANDING, EXPLOSION PROOF	L	RF	i.
-12	G3603A2	LIGHT, LANDING, EXPLOSION PROOF	M	RF	1
-13	G3603A3	LIGHT, LANDING, EXPLOSION PROOF	N	RF	
-14	G3603A5	LIGHT, LANDING, EXPLOSION PROOF	P	RF	
15	A3108	. RETAINER, LAMP	-	1 1	R
16	MS25241-4553	. LAMP, 28V 250W PAR46 (DS1)	A,B,C,D, E		R
-17	4573	. LAMP, 28V 150W PAR46 (DS1)	_	1	R
-18	MS2541-4522	. LAMP, 18V 250W PAR46 (DS1)	G,H,J,K		R
-19	4537	. LAMP, 18V 100W PAR 46 (DS1)	L,M,N,P		R
-20	MS24517-4551*	. LAMP, 28V 250W PAR 46 (DS1)	2,11,11,1		R
21	B3626-1	BAND, RETAINER ASSEMBLY (ATTACHING PARTS)		1 1	R
22	MS5190-239	. SCREW, MACHINE		11	R
23	G2905-24	. POWER UNIT ASSEMBLY	A,B,C,D, E,F,K	1	R
-24	G2905-12	. POWER UNIT ASSEMBLY (See Fig. 3 for details) (ATTACHING PARTS)	G,H,J,L, M,N,P	1	R
25	MS35265-51	. SCREW, MACHINE		2	R
26	MS35338-42	. WASHER, LOCK			R
27	A2875-1	. CONTACT ASSEMBLY		3	R
28	MS35206-213	. SCREW, MACHINE	·		R
29	MS35338-40	. WASHER, LOCK	į		R
30	A3863	. INSULATOR		1	R

⁻ Item Not Illustrated

^{*} If lamp MS24517-4551 is desired in place of the above lamps, add 4551 to part number. Example: 3600A1-4551.

FIG. ITEM	PART NUMBER	1234567 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
2 31	D3909	. COVER, SIDE	A,D,E,G, K,L,P	1	R
-32	D3909-1	. COVER, SIDE	B,C,F,H, J,M,N	1	R
33	MS24629-11				Ľ
34	MS35338-40	SCREW, MACHINE		8	R
	1.555555 40	*		8	R
35	46-0727-9	. CONTROL UNIT ASSEMBLY	A	1	R
-36	46-0727-11	. CONTROL UNIT ASSEMBLY	B,C,F	1	R
-37	46-0727-7	. CONTROL UNIT ASSEMBLY	D,K,P	1	R
-38	46-0727-1	. CONTROL UNIT ASSEMBLY	G,L	1	R
-39	46-0727-3	. CONTROL UNIT ASSEMBLY	H,J,M,N	1	R
-40	46-0727-13	. CONTROL UNIT ASSEMBLY	E	1	R
41	MS35265-34	. SCREW, MACHINE		4	R
42	MS35338-41	. WASHER, LOCK		4	R
43	46-0730-1	. LIGHT UNIT ASSEMBLY (See Fig. 5 for details)		1	R

⁻ Item Not Illustrated



Power Unit Assembly - Exploded View Figure 3

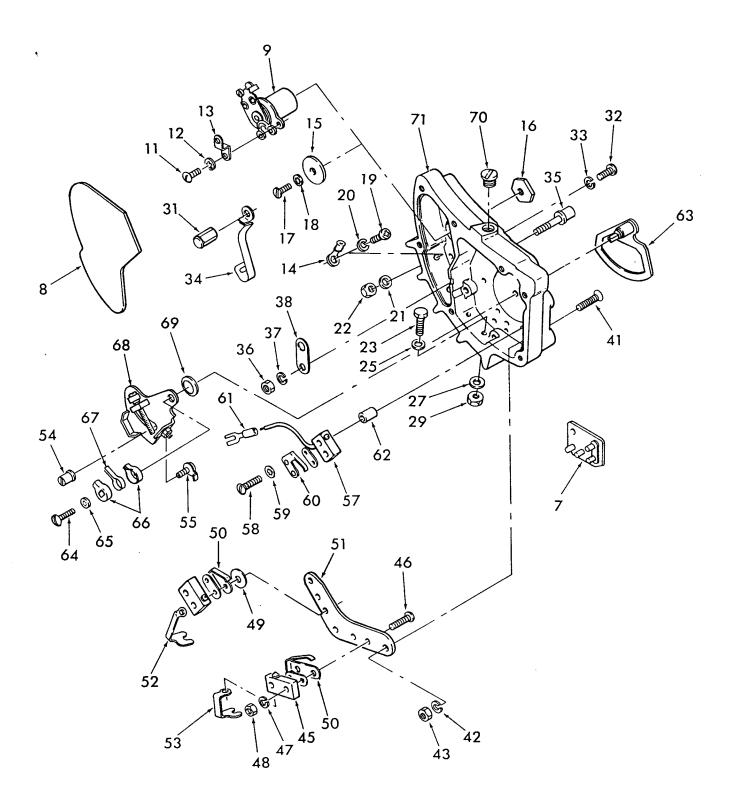
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•					EFFECT	UNITS PER
	FIG. 1	TEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	CODE	ASSY
	3	-1	G2905-24	POWER UNIT ASSEMBLY	A,B,C,D,	RF
		-2	G2905-12	(See Fig. 2 for NHA) POWER UNIT ASSEMBLY	E,F G,H,J,K,	RF
		3	B2489-24	(See Fig. 2 for NHA)	L,M,N,P A,B,C,D,	1
		-4	B 24 89-12	. COVER	E,F G,H,J,K,	1
		5	MS35206-230	(ATTACHING PARTS)	L,M,N,P	_
		6	MS35338-41	SCREW, MACHINE		3 3
		7	A5743A2	. PLATE, IDENTIFICATION	A,B,C,D,	1
		-8	A5743A1	. PLATE, IDENTIFICATION	E,F G,H,J,K,	1
		-9	G2905-1-24	. MOTOR ASSEMBLY (B1)	L,M,N,P A,B,C,D,	1
	-	10	G2905-1-12	. MOTOR ASSEMBLY (B1)	E,F G,H,J,K,	1
I	_	-11	A4103	BRUSH HOLDER ASSEMBLY	L,M,N,P	1
		12	A2683	BRUSH		2
1		13	A2482	SPRING		1
١		14	A2481	YOKE	i	2
1		15	A2457	HOLDER		2
		16	A2487-24	ARMATURE ASSEMBLY	A,B,C,D E,F	1
		17	A2487-12	ARMATURE ASSEMBLY	G,H,J,K, L,M,N,P	1
				(ATTACHING PARTS)	1,11,11,11	
		18	MS16634-1018	. RING, RETAINER	İ	1
		19	A2464	WASHER		1
		20	A2691-1-24	FIELD AND BLOCK ASSEMBLY	A,B,C,D, E,F	1
	-	21	A2691-1-12	FIELD AND BLOCK ASSEMBLY	G,H,J,K, L,M,N,P	1
				(ATTACHING PARTS)	ш,н,н,Е	
		22	MS35265-32	SCREW, MACHINE		2
		23	MS35338-41	WASHER, LOCK		2
1		24	A2480A	BRAKE ASSEMBLY	ļ	1
		25	A2926	HOUSING ASSEMBLY		1

⁻ Item Not Illustrated

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FIG. ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY
3 -26	G2905-2	. REDUCTION ASSEMBLY		1
27	MS35265-32	. SCREW, MACHINE		2
28	MS35338-41	. WASHER, LOCK		2
29	A2757	BRACE ASSEMBLY(ATTACHING PARTS)		ì
30	MS35206-213	. SCREW, MACHINE		2
31	G2895-1	REDUCTION GEAR, 1st		, ,
32	G2895-2	. REDUCTION GEAR, 2nd		1
33	G2895-3	REDUCTION GEAR, 3rd		1 1
34	G2895-4	REDUCTION GEAR, 4th		1 1
35	A5291-1	. RETAINER		1 1
36	A5291-2	. RETAINER		1
37	D2925A	GEAR PLATE ASSEMBLY		î

⁻ Item Not Illustrated



Control Unit Assembly - Exploded View Figure 4

FIG. ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
4 -1	46-0727-9	CONTROL UNIT ASSEMBLY	A	RF	R
-2	46-0727-11	(See Fig. 2 for NHA) CONTROL UNIT ASSEMBLY	B,C,F	RF	R
-3	46-0727-7	(See Fig. 2 for NHA) CONTROL UNIT ASSEMBLY	D,K,P	RF	R
-4	46-0727-1	(See Fig. 2 for NHA) CONTROL UNIT ASSEMBLY	G,L	RF	R
-5	46-0727-3	(See Fig. 2 for NHA) CONTROL UNIT ASSEMBLY	H,J,M,N	RF	R
-6	46-0727-13	(See Fig. 2 for NHA) CONTROL UNIT ASSEMBLY (See Fig. 2 for NHA)	E	RF	R
7	46-0985-1	. TERMINAL ASSEMBLY		1	R
8	A4079	. COVER	A,B,C,E, F,G,H,J, L,M,N		R
9	A5250-24	. RELAY ASSEMBLY (K1)	A,B,C,E, F	1	R
-10	A5250-12	. RELAY ASSEMBLY (K1)	G,H,J,L, M,N	1	R
11	MS35206-215	(ATTACHING PARTS) . SCREW, MACHINE	A,B,C,E, F,G,H,J,		R
12	MS35338-40	. WASHER, LOCK	L,M,N A,B,C,E, F,G,H,J, L,M,N	3	R
13	A3973	. CLIP, GROUND	A,B,C,E, F,G,H,J, L,M,N	1	R
14	32050	. TERMINAL (V00779)(Grimes Stock Code TE130)	B,C,F,H, J,M,N	1	R
15	A4999-1	. WASHER	D,K,P	1	R
16	A4999-2	NUT	D,K,P	1	R
17	MS35206-230	. SCREW, MACHINE	D,K,P	1	R
18	MS35338-41	. WASHER, LOCK	D, K, P	1	R
19	MS35206-244	. SCREW, MACHINE	A,D,E,G, K,L,P	1	R
20	MS35338-42	. WASHER, LOCK	A,D,E,G, K,L,P	1	R
21	WA059	. WASHER, FLAT NO. 8 BRASS	A,D,E,G, K,L,P	1	R

⁻ Item Not Illustrated

FIG.	ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
4	22	MS35649-282	. NUT, HEX	A,D,E,G, K,L,P	1	R
	23	A3883	. SCREW, TERMINAL		3	R
	-24	A3883	. SCREW, TERMINAL	B,C,F,H,	4	R
	25	MS35338-42	. WASHER, LOCK	, , , , , ,	3	R
	-26	MS35338-42	. WASHER, LOCK	K,L,P B,C,F,H,	4	R
	27	WA059	. WASHER, FLAT NO. 8 BRASS		3	R
	-28	WA059	. WASHER, FLAT NO. 8 BRASS	K,L,P B,C,F,H,	4	R
	29	MS35649-282	. NUT, HEX		3	R
	-30	MS35649-282	. NUT, HEX	K,L,P B,C,F,H,	4	R
	31	A3919	. CONTACT POST ASSEMBLY	J,M,N A,B,C,E, F,G,H,J,	2	R
	32	MS35206-215	(ATTACHING PARTS) . SCREW, MACHINE	L,M,N A,B,C,E, F,G,H,J, L,M,N	2	R
	33	MS35338-40	. WASHER, LOCK	A,B,C,E, F,G,H,J, L,M,N	2	R
	34	A3972	. CONNECTOR	A,B,C,E, F,G,H,J, L,M,N	1	R
	35	A3885	. TERMINAL, LAMP	2,,	1	R
	36 37	MS35649-262 MS35338-41	. NUT, HEX		1	R
		,	. WASHER, LOCK		1	R
	38	A3971	. CONNECTOR	A,B,C,E, F,G,H,J, L,M,N	1	R
	- 39	A3884	. CONNECTOR	D,K,P	1	R

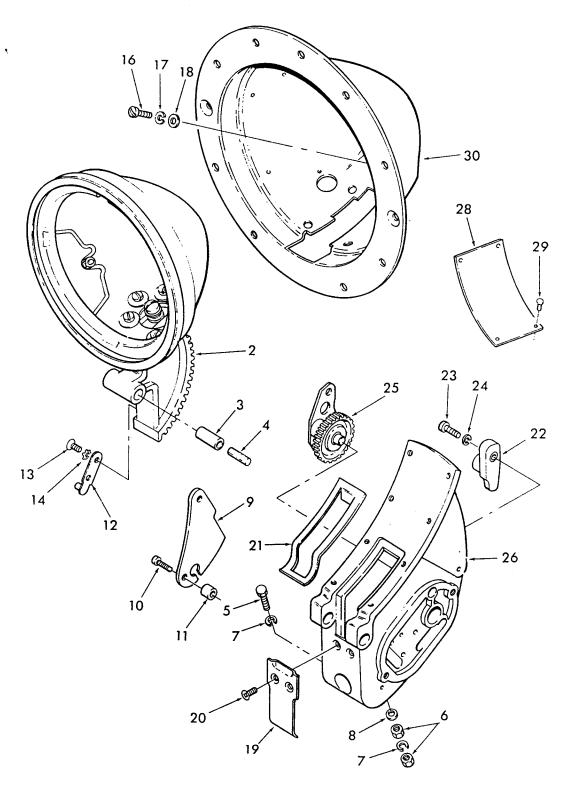
⁻ Item Not Illustrated

FIG.,ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
4 -40	46-0731-1	. SWITCH ASSEMBLY		1	 R
41	SC097	(ATTACHING PARTS) . SCREW, MACHINE 2-56 x 9/16 IN LG, 82° CSK, CRES		3	R
42 43	MS35338-39 MS35649-222	. WASHER, LOCK		3 3	R R
-44 45	46-0733-1 1SM1	SWITCH ASSEMBLY		1 2	R R
46 47 48	MS35206-207 MS35338-39 MS35649-222	SCREW, MACHINE WASHER, LOCK NUT, HEX		4 4 4	R R R
49 50 51 52 53	MS15795-803 A8816-1 A8817-1 A3961A A3959A D6206-4	WASHER, FLAT ACTUATOR BLOCK . TERMINAL LUG . TERMINAL LUG . ACTUATOR	E	2 2 1 1 1 1	R R R R
55	D6206-3	(ATTACHING PARTS) . SCREW ASSEMBLY	E	1	R
-56 57	D6206-5 1SM1	SWITCH ASSEMBLY SWITCH (S3) (V91929) (Grimes Stock Code SW538) (ATTACHING PARTS)	E E	1 1	R R
58	SC692	. SCREW, MACHINE 2-56 x 3/4 IN LG, SL RD HD, TYPE 1, STL	E	2	R
59	MS35333-35	WASHER, LOCK	E	2	R
60	JS60	ACTUATOR (V91929) (Grimes Stock Code SW693)	Е	1	R
61	32403	TERMINAL (V00779)	Е	1	R
62 63	60-3002A4B0281 46-0993-1	. SPACER	Е	2 1	R R
64 65	MS35206-228 MS35335-30	. SCREW, MACHINE		1 1	R R
66 67	A3829 A3830	. CLIP, RETAINER		2 1	R R

⁻ Item Not Illustrated

•	FIG.	ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
	4	68 69 70 71	46-0980-1 A3084-1 A3908 D3828-1	. ACTUATOR ASSEMBLY . WASHER . PLUG, SCREW . INSERT ASSEMBLY	A,B,C,D, F,G,H,J, K,L,M,N, P	1 1 1 1	R R R R
		- 72	D3828-7	. INSERT	Е	1	R

⁻ Item Not Illustrated



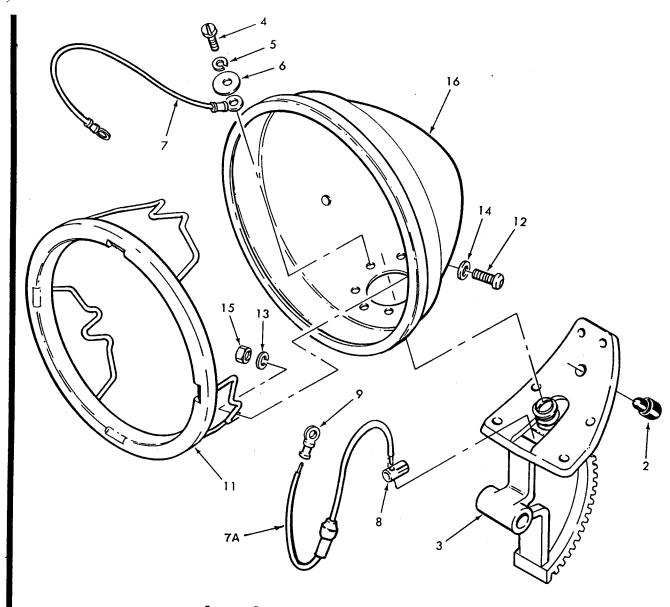
Light Unit Assembly - Exploded View Figure 5

FIG. ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
5 -1	46-0730-1	LIGHT UNIT ASSEMBLY		RF	R
2	46-0725-1	. INNER CANOPY ASSEMBLY		1	R
3	A1724	(ATTACHING PARTS) SHAFT		1	R
4	WB055	. WICKING, FELT 3/16 IN DIA x		1	R
5	A3883	. SCREW, TERMINAL			_
6	MS35649-282	MIT UEV		1	R
7	MS35338-42	NUT, HEX		2	R
	P .	. WASHER, LOCK		2	R
8	WA059	. WASHER, FLAT NO. 8 BRASS		1	R
9	A3868	. INSULATOR		1	R
10	55-0208-12	SCREW, MACHINE 2-56 x 3/8 IN LG 82° CSK, SL FL HD, STL		2	R
11	A3869	. SPACER		2	R
12	A3878	. ACTUATOR ARM ASSEMBLY		1	R
13	MS35190-225	. SCREW, MACHINE		2	٦
14	MS35336-3	WASHER, LOCK		2	R R
-15	46-0729-1	. MECHANISM SUPPORT ASSEMBLY (ATTACHING PARTS)		1	R
16	SC712	SCREW, MACHINE 6-32 x 1/4 IN LG SL PAN HD, STL		8	R
17	MS35338-41	. WASHER, LOCK		8	L.
18	WA059	. WASHER, FLAT NO. 8 BRASS	:	4	R R
19	A3854	PLATE		1	R
20	55-0208-21	. SCREW, MACHINE 4-40 x 5/16 IN LG, 82° CSK, SL FL HD, STL		2	R
21	A3852	. FELT STRIP		_	_
22	A3866	. INSULATOR		1 1	R R
23	MS35206-217			_	_
24	MS35338-40	. SCREW, MACHINE		1 1	R R

⁻ Item Not Illustrated

FIG. ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	-
5 25 . 26 . -27 28	A5254 G2518 46-0728-1 A3872	. GEAR AND BRACKET ASSEMBLY HOUSING, DRIVE OUTER CANOPY ASSEMBLY PLATE, INSTRUCTION (ATTACHING PARTS)		1 1 1 1	R R R
29	MS20470A2-3	. RIVET		4	R
30	D6087	CANOPY		1	R

⁻ Item Not Illustrated



Inner Canopy Assembly - Exploded View Figure 6

FIG. ITEM	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	EFFECT CODE	UNITS PER ASSY	
6 -1	46-0725-1	INNER CANOPY ASSEMBLY		RF	R
2	A3873	. BUMPER		1	R
3	B6084	. ARM ASSEMBLY, QUADRANT		1	R
4	SC712	SCREW, MACHINE 6-32 x 1/4 IN LG SL PAN HD, TYPE 1 STL		6	R
5	MS35338-41	. WASHER, LOCK		6	R
6	A2636	. WASHER		6	R
7	A3877	. WIRE ASSEMBLY		1	R
7A	A3876	. WIRE ASSEMBLY		l ī	R
8	A3867	. RECEPTACLE		1	R
9	322337	. TERMINAL (V00779)		1	R
-10	46-0724-1	. INNER CANOPY SUBASSEMBLY		1	R
11	B3139	BAND ASSEMBLY		ī	R
12	MS35206-227	SCREW, MACHINE		3	R
13	MS35338-41	WASHER, LOCK		3	R
14	A3121	WASHER		3	R
15	MS35646-262	NUT, HEX	*	3	R
16	B3107-3	CANOPY, INNER		1	R

⁻ Item Not Illustrated

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4			