

CHAPTER 33

LIGHTS

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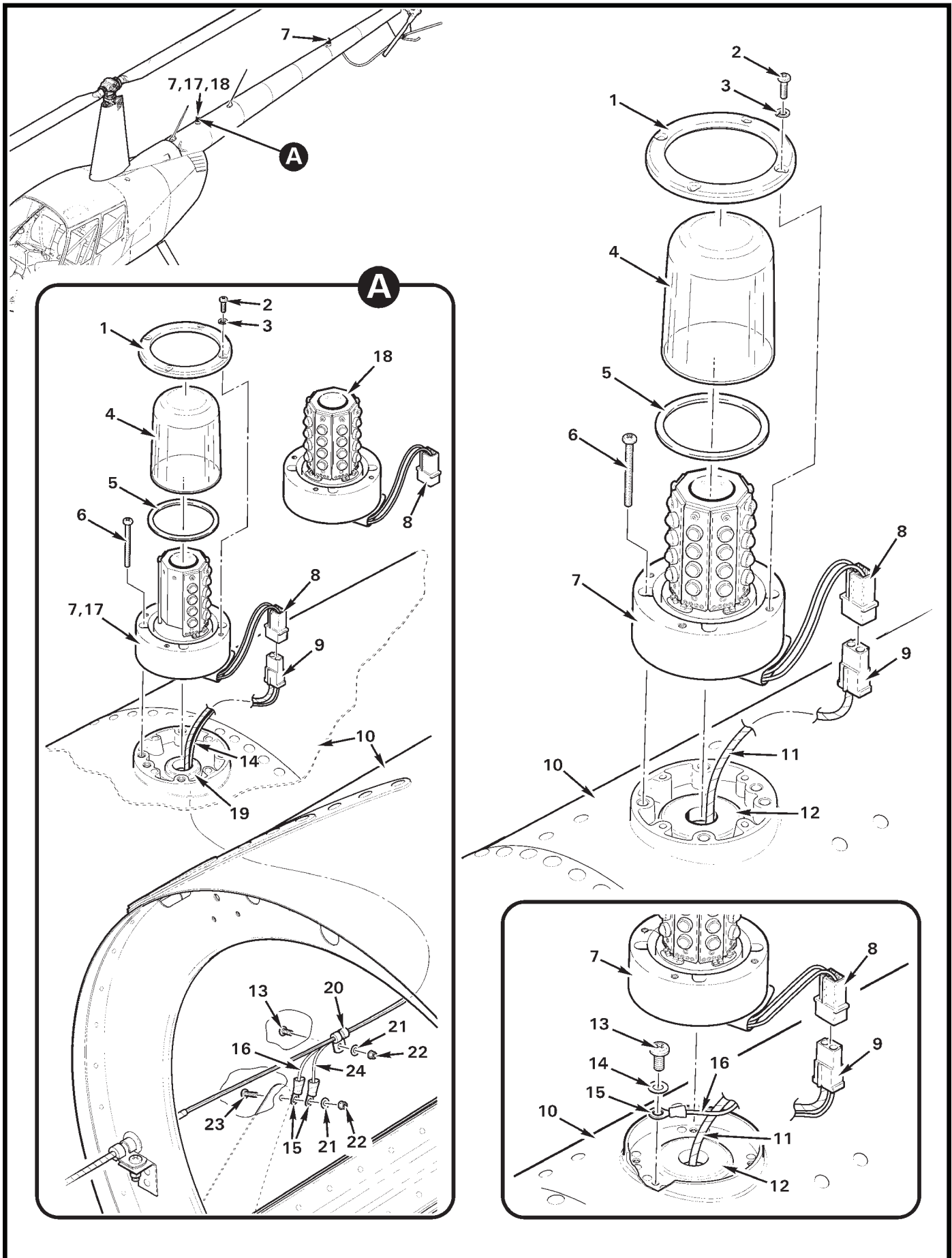


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		STROBE LIGHT INSTALLATION (LED)		
33-1-1	19-171047-100*	Retainer	O	1
2	14-0050505-14*	Screw	O	4
3	16-0050506135*	Lockwasher (MS35338-135)	O	4
4	68-4971082A30*	Lens	O	1
5	38-0250885-00*	Gasket	O	1
6	MS35206-234	Screw	X	4
7	A708-13**	Strobe Light – Red LED (28 volt; optional equipment in forward location. Includes items 1 thru 5, and 8.)	X	1
	A708-14**	Strobe Light – Red LED (14 volt; optional equipment in forward location. Includes items 1 thru 5, and 8.)	X	1
8	02-0230007-00*	Housing	O	1
	—	Pin	O	2
9	B263-13	Housing	X	1
	B263-2	Socket	X	2
10	C023	Tailcone Assembly (Ref)		
11	B161-2	Spirap	X	A/R
12	MS35489-15	Grommet	X	1
13	MS27039C0806	Screw	X	2
14	NAS1149FN832P	Washer	X	1
15	B260-3	Terminal	X	A/R
16	-2039	Wire (Ref; ground, aft strobe light, earlier R44s)		
17	A708-16**	Strobe Light – White LED (Optional equipment. Includes items 1 thru 5, and 8. Orient with blank strips facing forward.)	X	1
18	A708-15**	Strobe Light – Blue LED (Optional equipment. R44 Police only. Includes items 1 thru 5, and 8.)	X	1
19	MS35489-11	Grommet	X	1
20	MS21919WDG2	Clamp	X	1
21	NAS1149FN816P	Washer	X	2
22	MS21042L08	Nut	X	2
23	MS27039C0808	Screw	X	1
24	-2734	Wire (Ref; ground, forward strobe light)		

NOTES * Whelen part no.
 ** If not previously accomplished, earlier ships require KI-204 Airframe Provisions for Single LED-Strobe Tailcone Kit Installation if an LED-equipped tailcone is to be installed.

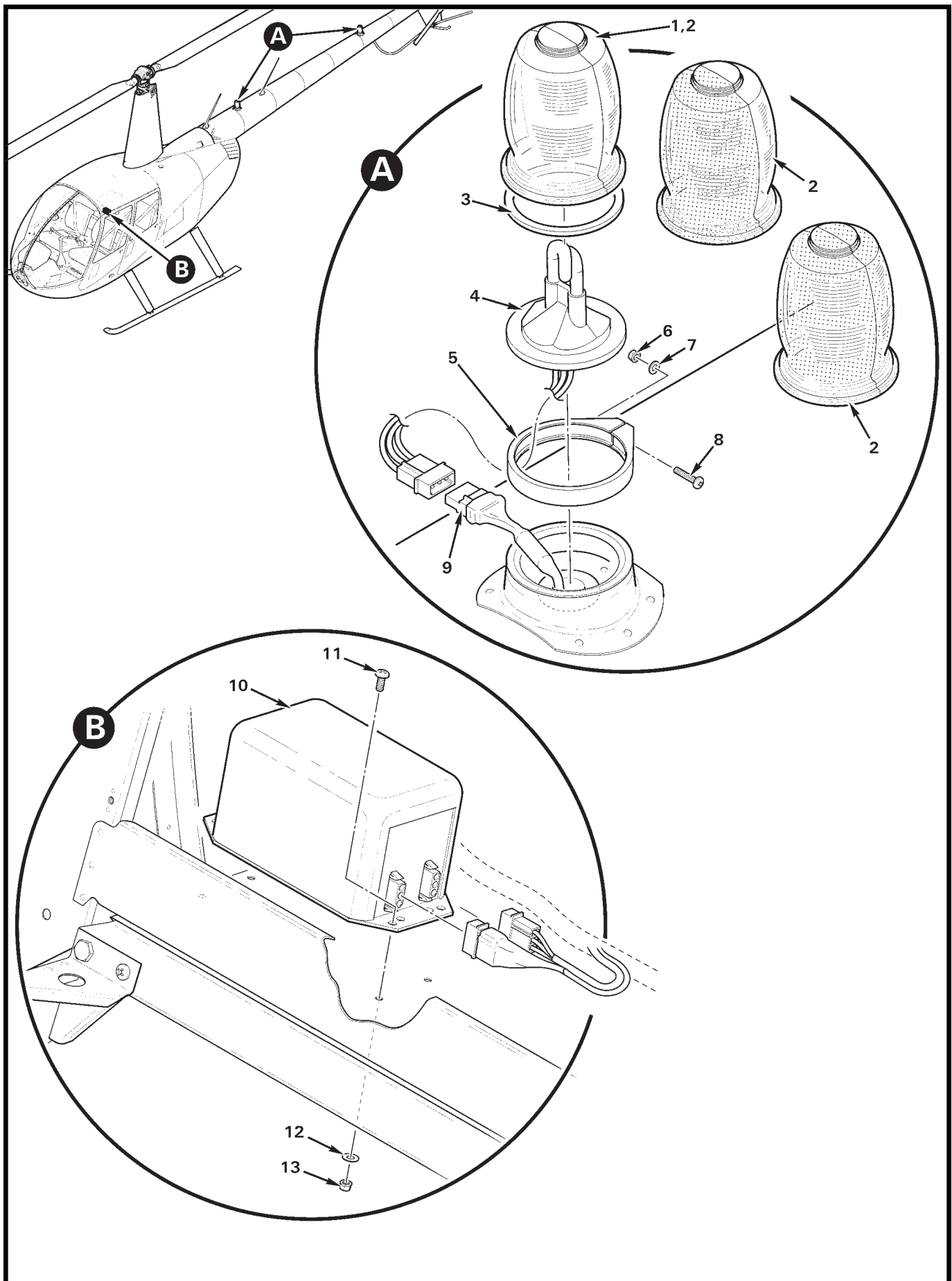


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		STROBE LIGHT INSTALLATION*		
33-3-1	A708-11	Strobe Light Assembly (Incl items 2 [A708-12], 3 thru 5, and 8)	X	1
2	A708-7	Lens Assembly (red)	X	1
	A708-10	Lens Assembly (white)	X	1
	A708-12	Lens Assembly (red and white)	X	1
3	38-0250429-00**	Gasket	O	1
4	A469B**	Flash Tube Assembly	X	1
5	01-0450685-00**	Clamp	X	1
6	MS21042L06	Nut	X	1
7	NAS620-6	Washer	X	1
8	—	Screw	O	1
9	B263-15	Housing (Ref; see Figure 53-33)		
10	A708-1	Strobe Power Supply	X	1
11	MS27039C0806	Screw	X	4
12	NAS1149FN816P	Washer	X	4
13	MS21042L08	Nut	X	4
NOTES * Earlier R44s. ** Whelen part no.				

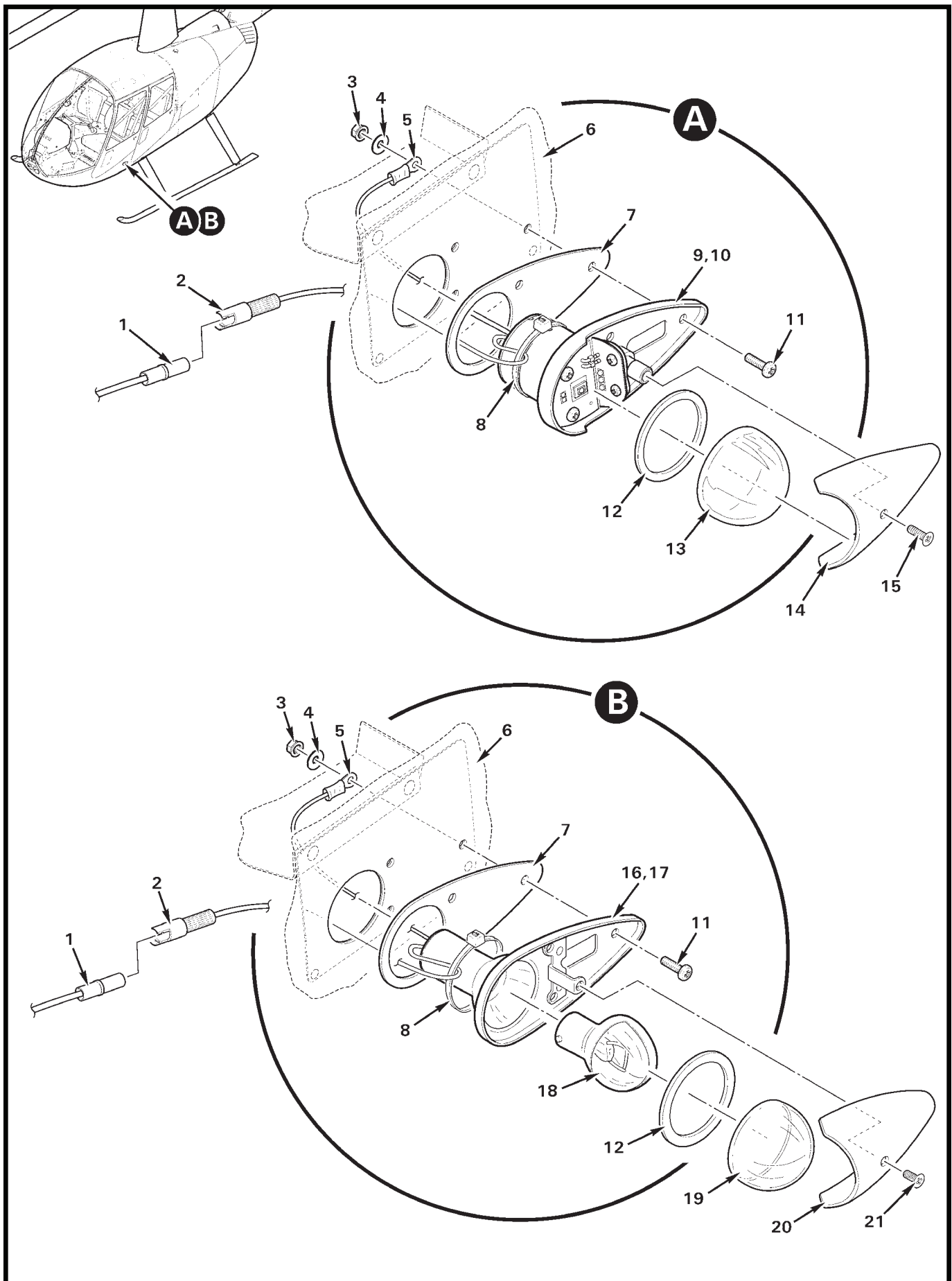


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		NAVIGATION LIGHTS INSTALLATION – RIGHT AND LEFT POSITION*		
33-5-1	B263-11	Housing (Ref)		
2	B263-10	Housing	X	1
	B263-1	Pin	X	1
3	MS21042L06	Nut	X	3
4	NAS1149FN616P	Washer	X	3
5	B260-2	Terminal	X	1
6	C272-1	Chin (Ref)		
7	A779-1	Gasket	X	1
8	MS3367-5-9	Ty-Rap	X	1
9	A039-19	Position Light Assembly – LH (Red LED, 28-volt; includes items 2, 5, and 12 thru 15.)	X	1
	A039-21	Position Light Assembly – LH (Red LED, 14-volt; includes items 2, 5, and 12 thru 15.)	X	1
10	A039-20	Position Light Assembly – RH (Green LED, 28-volt; includes items 2, 5, and 12 thru 15. Not shown.)	X	1
	A039-22	Position Light Assembly – RH (Green LED, 14-volt; includes items 2, 5, and 12 thru 15. Not shown.)	X	1
11	MS35206-230	Screw	X	3
12	38-0230021-00**	Gasket	O	1
13	68-3950902A30**	Lens (clear)	X	1
14	19-150002-010**	Retainer	O	1
15	14-0050508-27**	Screw	O	1
16	A039-15	Position Light Assembly – LH (Red incandescent, 28-volt. Ref, no longer available.)		
	A039-5	Position Light Assembly – LH (Red incandescent, 14-volt. Ref, no longer available.)		
17	A039-16	Position Light Assembly – RH (Green incandescent, 28-volt. Ref, no longer available.)		
	A039-4	Position Light Assembly – RH (Green incandescent, 14-volt. Ref, no longer available.)		
18	W1290-14**	Lamp (14-volt)	X	1
	W1290-28**	Lamp (28-volt)	X	1
19	W1284R**	Lens – LH (red)	X	1
	W1284G**	Lens – RH (green, not shown)	X	1
20	W1282**	Retainer	X	1
21	—	Screw	O	1

NOTES * Refer to Figure 32-33 for position light installation with fixed floats installed.

** Whelen part no.

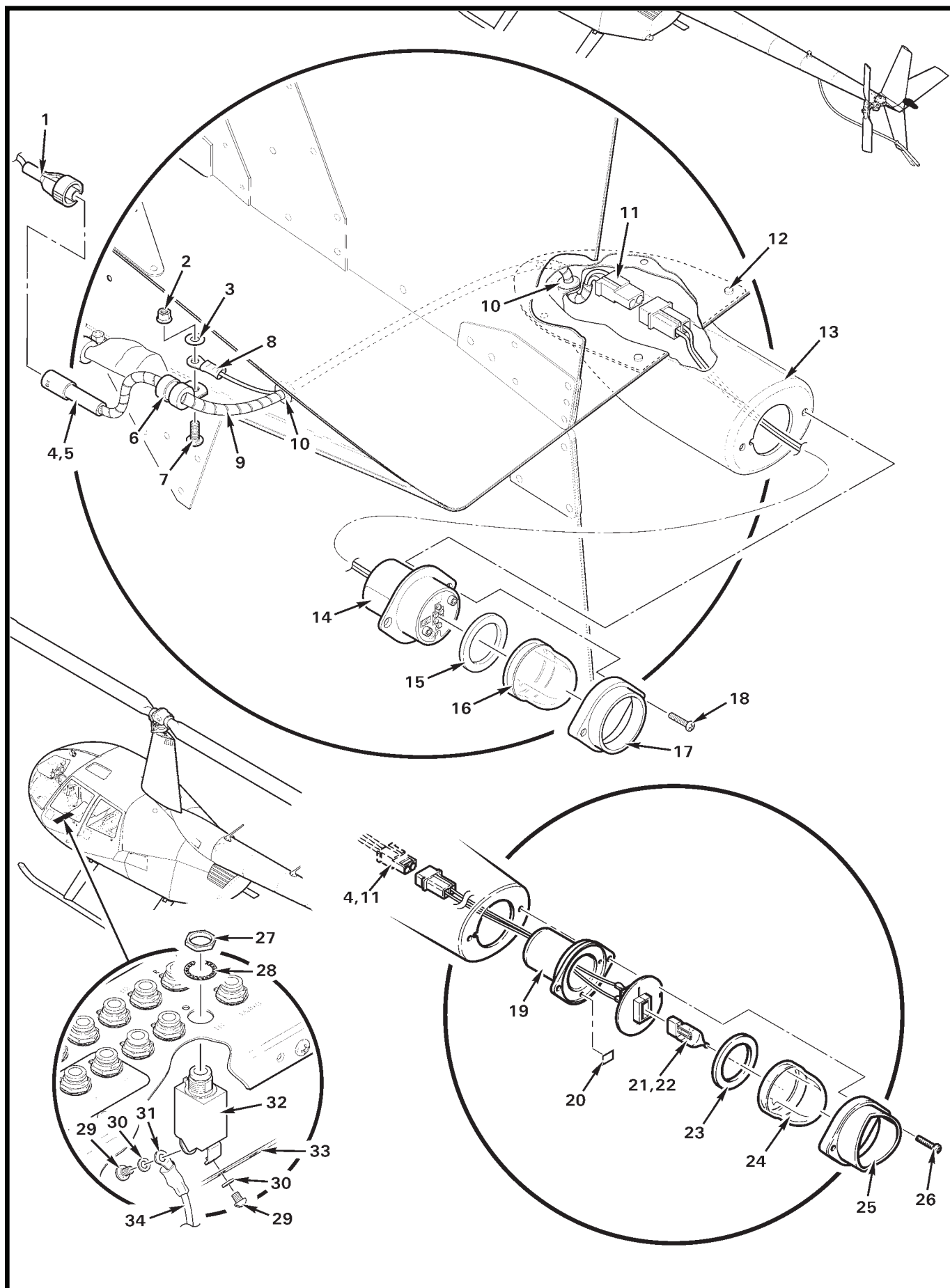


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		NAVIGATION LIGHTS INSTALLATION – TAIL POSITION		
33-7-1	B264-11	Housing (Ref)		
	B263-2	Socket (Ref)		
2	MS21042L08	Nut	X	1
3	NAS1149FN816P	Washer	X	1
4	D049-3	Wire Harness – Tail Light (Incl items 5, and 8 thru 11)	X	1
5	B264-10	Housing	X	1
	B264-1	Pin	X	1
6	MS21919WDG6-4	Clamp	X	1
7	MS27039C0806	Screw	X	1
8	B260-3	Terminal	X	1
9	B161-2	Spirap	X	A/R
10	MS35489-4	Grommet	X	2
11	B263-13	Housing	X	1
	B263-2	Socket	X	2
12	NAS1919B04S02	Rivet	X	1
13	C529-1	Mount Assembly	X	1
14	01-0771554-01*	Tail Light Assembly (LED, 28 volt; includes items 15 thru 18, wiring and housing)	X	1
	01-0771554-11*	Tail Light Assembly (LED, 14 volt; includes items 15 thru 18, wiring and housing)	X	1
15	38-0231061-00*	Gasket	O	1
16	68-3970991-30*	Lens	O	1
17	19-0150350-03*	Lens Retainer	O	1
18	14-0050505-18*	Screw	O	2
19	A698-3	Tail Light Assembly (Ref, incandescent, 14-volt ships; no longer available. Superseded by item 14. When replacing, also order item 4; includes items 20 thru 26.)		
20	A701-1	Foil Tape	X	A/R
21	34-0412070-63*	Lamp (halogen, 14-volt ships)	X	1
22	34-0428070-64*	Lamp (halogen, 28-volt ships)	X	1
23	A455*	Gasket	X	1
24	A457A*	Lens	X	1
25	A425*	Lens Retainer	X	1
26	—	Screw	O	2
27	—	Nut	O	1
28	—	Lockwasher	O	1

NOTES * Whelen part no.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		NAVIGATION LIGHTS INSTALLATION – TAIL POSITION (Cont'd)		
33-7-29	—	Screw	O	2
30	—	Washer	O	2
31	B260-2	Terminal (Ref)		
32	B297-5	Circuit Breaker (5 amp; includes items 27 thru 30)	X	1
33	A448	Bus Bar (Ref)		
34	-104	Wire (Ref)		
NOTES				

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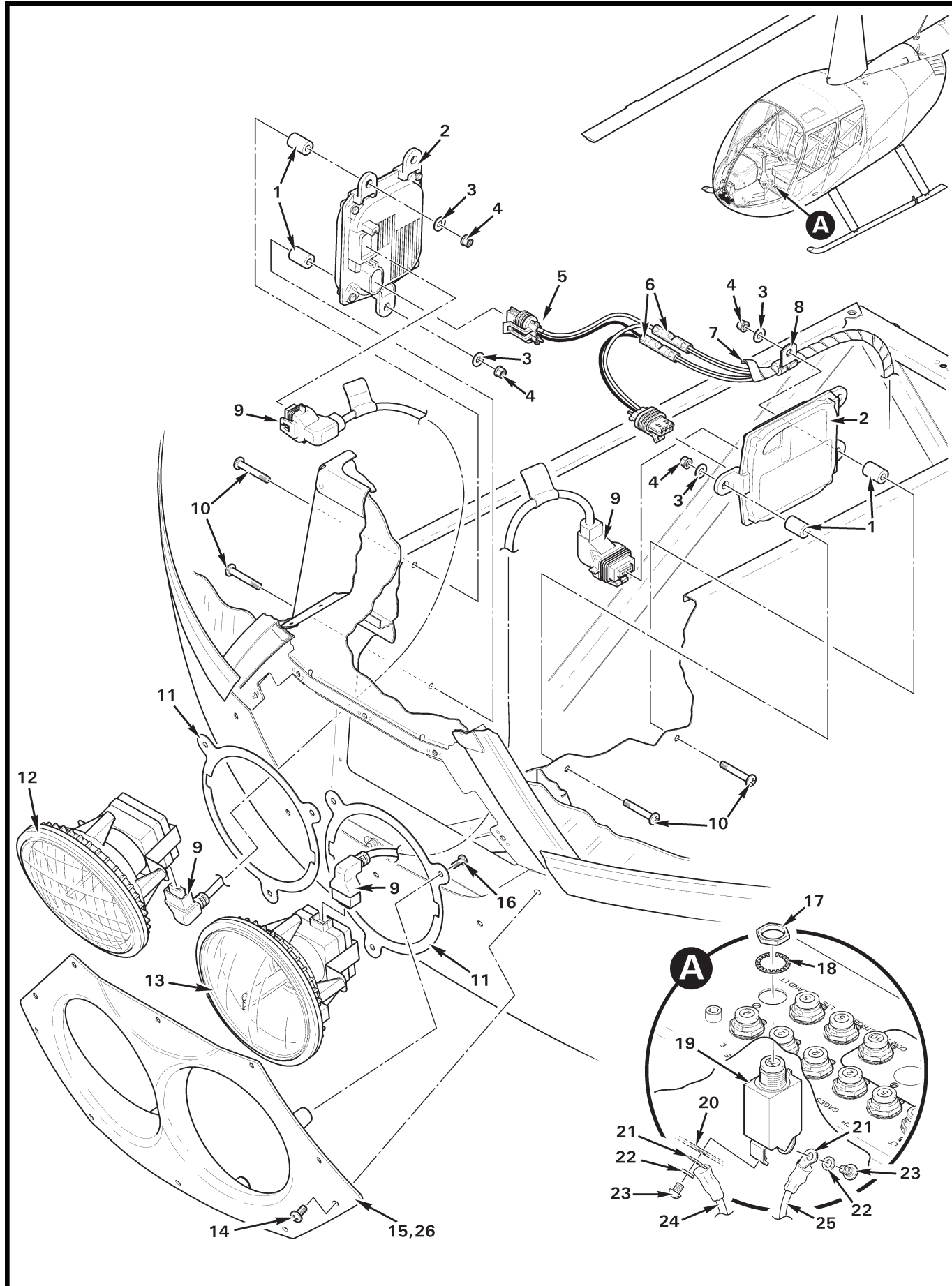


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LANDING LIGHTS INSTALLATION (HID)		
33-11-1	A130-38	Spacer	X	4
2	B557-3	Ballast (28-volt; includes item 5)	X	2
	B557-5	Ballast (14-volt; includes item 5)	X	2
3	NAS1149FN832P	Washer	X	4
4	MS21042L08	Nut	X	4
5	B557-7	Power Cord (connector and wires)	X	2
6	B261-3	Splice	X	2
7	B161-4	Spirap	X	A/R
8	MS21919WDG2	Clamp	X	1
9	B557-8	Cable (long; 90° to 90°)	X	2
10	MS27039C0816	Screw	X	4
11	C526-3	Retainer	X	2
12	B557-2	Lamp – RH (HID, flood)	X	1
13	B557-1	Lamp – LH (HID, spot)	X	1
14	AN526C832R8	Screw	X	10
15	C526-2	Bezel (install using item 26 to seal edges).	X	1
16	MS35206-228	Screw	X	6
17	—	Nut	O	1
18	—	Lockwasher	O	1
19	B297-7	Circuit Breaker (7.5 amp; includes items 17, 18, 22, and 23) . . .	X	1
20	A448-16	Bus Bar (Ref)		
21	B260-2	Terminal (Ref)		
22	—	Washer	O	2
23	—	Screw	O	2
24	-102	Wire (Ref)		
25	-2380	Wire (Ref; to landing lights relay)		
26	B270-13	Sealant (3-oz. tube)	X	A/R
NOTES				

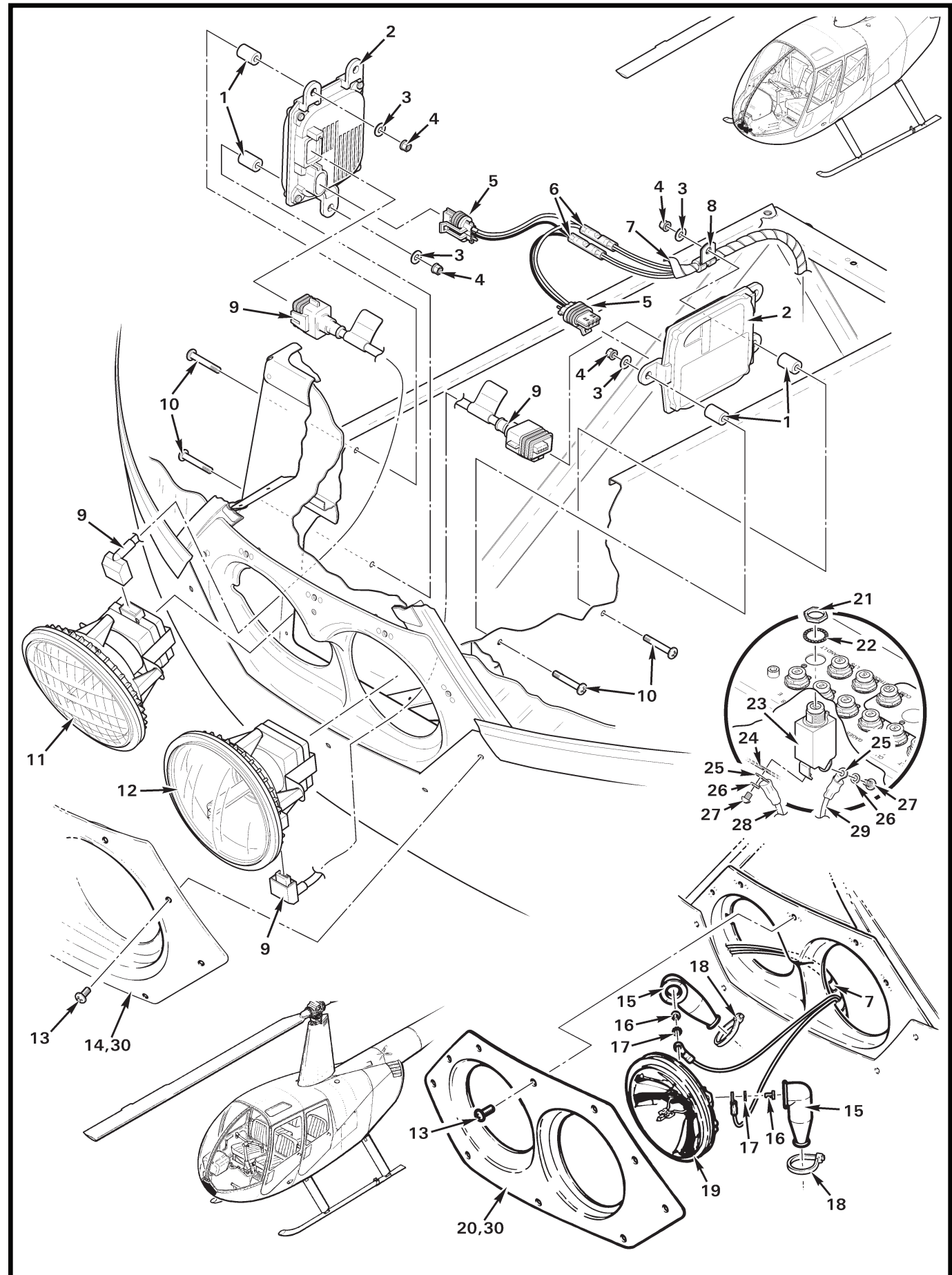


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LANDING LIGHTS INSTALLATION*		
33-13-1	A130-38	Spacer	X	4
2	B557-3	Ballast (28-volt; includes item 5)	X	2
	B557-5	Ballast (14-volt; includes item 5)	X	2
3	NAS1149FN832P	Washer	X	4
4	MS21042L08	Nut	X	4
5	B557-7	Power Cord (connector and wires)	X	2
6	B261-3	Splice	X	2
7	B161-4	Spirap	X	A/R
8	MS21919WDG2	Clamp	X	1
9	B557-8	Cable	X	2
10	MS27039C0816	Screw	X	4
11	B557-2	Lamp – RH (HID, flood)	X	1
12	B557-1	Lamp – LH (HID, spot)	X	1
13	AN526C832R8	Screw	X	10
14	C526-3	Retainer (install using item 30 to seal edges).	X	1
15	MS25171-2S	Nipple	X	4
16	—	Screw	O	4
17	—	Lockwasher	O	4
18	MS3367-4-9	Ty-Rap	X	4
19	B196-26	Lamp (14-volt, includes items 16 and 17. GE part no. Q4509)	X	2
	B196-27	Lamp (28-volt, includes items 16 and 17. GE part no. 4591)	X	2
20	C526-1	Retainer (install using item 30 to seal edges).	X	1
21	—	Nut	O	1
22	—	Lockwasher	O	1
23	B297-7	Circuit Breaker (20 amp; includes items 21, 22, 26, and 27)	X	1
24	A448-16	Bus Bar (Ref)		
25	B260-2	Terminal (Ref)		
26	—	Washer	O	2
27	—	Screw	O	2
28	-102	Wire (Ref)		
29	-103	Wire (Ref; to landing lights relay)		
30	B270-13	Sealant (3-oz. tube)	X	A/R

NOTES * Earlier R44s.

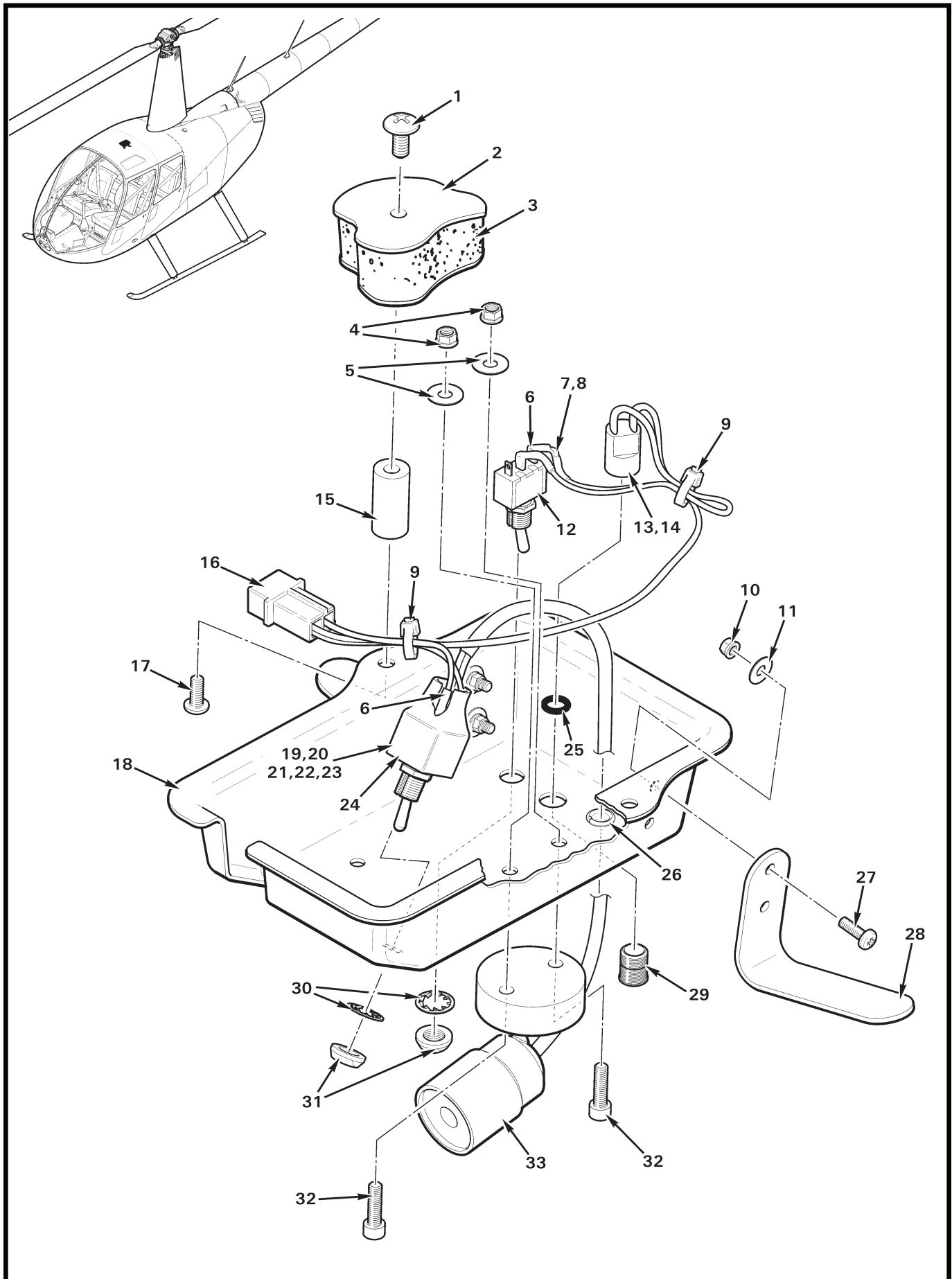


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SPOTLIGHT INSTALLATION (LED)		
33-15-1	AN526C832R6	Screw	X	2
2	C273-1	Roof (Ref)		
3	C003	Insulation – Fwd (RH, Ref. See Figure 25-23.)		
4	MS21042L06	Nut	X	2
5	NAS1149FN616P	Washer	X	2
6	B158-2	Heat Shrink (around leads)	X	A/R
7	B0207C511R0F5T*	Resistor	X	1
8	B0207C1K210F5T**	Resistor	X	1
9	MS3367-4-9	Ty-Rap	X	2
10	MS21042L04	Nut	X	4
11	NAS1149FN416P	Washer	X	4
12	B300-1	Switch Assembly (Incl items 30 and 31)	X	1
13	CNX310000X4112	Connector	X	1
14	E1003	LED (not shown)	X	1
15	C710-3	Spacer	X	2
16	B263-12	Housing	X	1
	B263-1	Pin	X	2
17	MS27039C0806	Screw	X	2
18	C712-2	Cover	X	1
19	B300-5	Switch Assembly (Incl items 30 and 31)	X	1
20	B0207C422R0F5T*	Resistor (not shown)	X	1
21	B0207C1K430F5T*	Resistor (not shown)	X	1
22	B0207C1K650F5T**	Resistor (not shown)	X	1
23	B0207C3K400F5T**	Resistor (not shown)	X	1
24	B158-12	Heat Shrink	X	A/R
25	A215-008	O-Ring	X	1
26	NAS557-3A	Grommet	X	1
27	MS35206-215	Screw	X	4
28	A752-1	Angle	X	2
29	CMC321-CTP	Lens	X	1
30	B227-3	Lockwasher	X	2
31	B227-4	Dress Nut	X	2
32	NAS1352-06-8	Screw	X	2
33	D606-1	Spotlight	X	1
NOTES * 14-volt ships only. ** 28-volt ships only.				

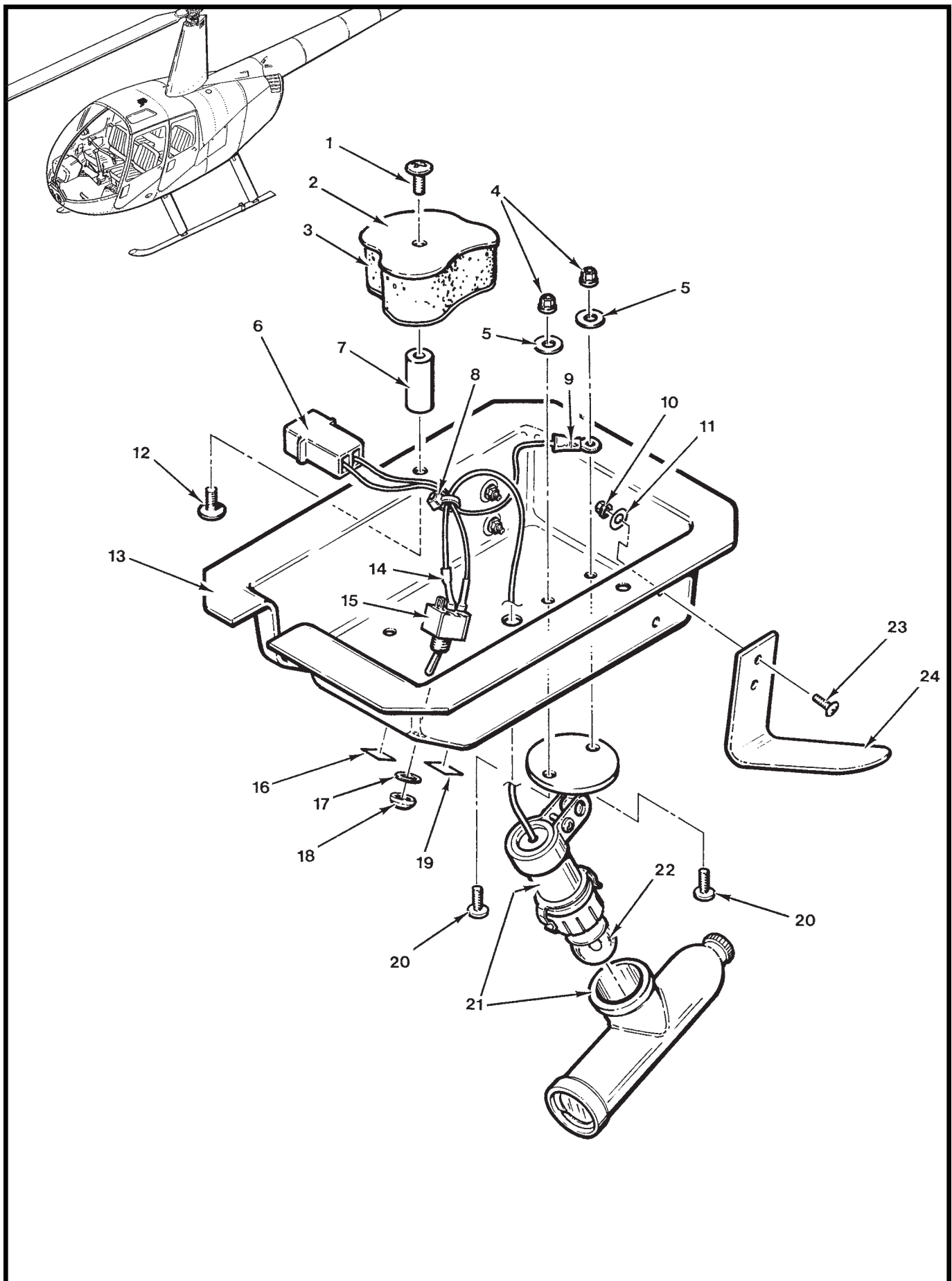


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SPOTLIGHT INSTALLATION*		
33-17-1	AN526C832R6	Screw	X	2
2	C273-1	Roof (Ref)		
3	C003	Insulation – Fwd (RH, Ref; see Figure 25-23)		
4	MS21042L06	Nut	X	2
5	NAS1149FN616P	Washer	X	2
6	B263-12	Housing	X	1
	B263-1	Pin	X	2
7	C710-3	Spacer	X	2
8	MS3367-4-9	Ty-Rap	X	A/R
9	B260-2	Terminal	X	1
10	MS21042L04	Nut	X	4
11	NAS1149FN416P	Washer	X	4
12	MS27039C0806	Screw	X	2
13	C712-1	Cover (Ref; no longer available)	O	1
14	B158-2	Heat Shrink (both wires)	X	A/R
15	B300-1	Switch Assembly – Spotlight (Incl items 17 and 18)	X	1
16	A654-15	Decal – “On”	X	1
17	B227-3	Lockwasher	X	1
18	B227-4	Dress Nut	X	1
19	A654-13	Decal – “Off”	X	1
20	MS35206-228	Screw	X	2
21	A1425A-2	Spotlight Assembly (does not include item 22)	X	1
22	B196-2	Lamp (14-volt ships)	X	1
	B196-22	Lamp (28-volt ships)	X	1
23	MS35206-215	Screw	X	4
24	A752-1	Angle	X	2
NOTES * Earlier R44s.				

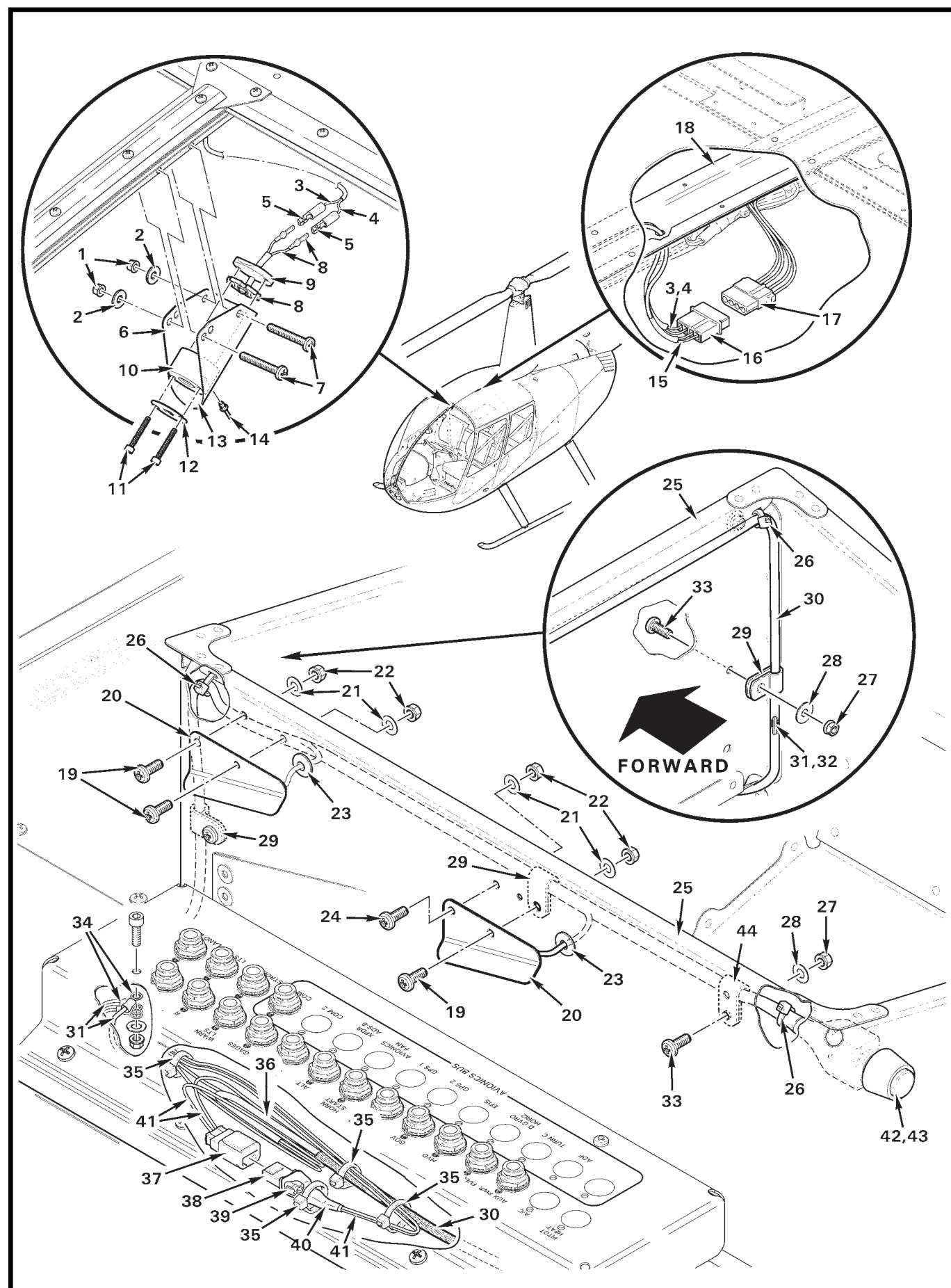


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CABIN INTERIOR LIGHTING INSTALLATION		
33-19-1	NAS1291C08M	Nut	X	2
2	NAS1149DN816J	Washer	X	2
3	C238-2289	Wire (Ref)		
4	C238-2290	Wire (Ref)		
5	B262-1	Terminal	X	2
6	G196-8	Light Assembly – Console (Incl items 8 thru 14)	X	1
7	MS35214-47	Screw	X	2
8	G196-2	LED Assembly	X	1
9	G197-5	Cover	X	1
10	G197-10	Housing	X	1
11	91251A113	Screw	X	2
12	G197-9	Window	X	1
13	G197-11	Bracket	X	1
14	NAS9301B-4-02	Rivet	X	1
15	C238-125	Wire (Ref, compass light)		
	C238-126	Wire (Ref, compass light)		
16	B263-16	Housing	X	1
	B263-1	Pin	X	4
17	B263-17	Housing	X	1
	B263-2	Socket	X	4
18	C087-3	Support – Roof (Ref)		
19	MS27039C0806	Screw	X	2
20	G196-7	Light Assembly – Circuit Breaker Panel (Incl items 23, 31, 32, and 34)	X	2
21	NAS1149FN816P	Washer	X	4
22	MS21042L08	Nut	X	4
23	MS35489-4	Grommet	X	2
24	MS27039C0805	Screw	X	2
25	C297-4	Support – Seat (Ref; forward, LH)		
26	MS3367-4-0	Ty-Rap	X	4
27	MS21042L06	Nut	X	2
28	NAS1149FN616P	Washer	X	2
29	N-4-BK	Clamp	X	1
30	B266-4	Sleeving	X	A/R
31	-2291	Wire (Ref; ground)		
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CABIN INTERIOR LIGHTING INSTALLATION (Cont'd)		
33-19-32	-127	Wire (Ref; power)		
33	MS35206-228	Screw	X	1
34	B260-3	Terminal	X	2
35	MS3367-4-9	Ty-Rap	X	A/R
36	B158-2	Heat Shrink	X	A/R
37	D269-1	Plug	X	1
38	D269-2	Receptacle	X	1
39	D269-21	Backshell	X	1
40	B158-6	Heat Shrink	X	A/R
41	C859-127	Wire (Ref; power)		
42	C049-18	Harness Assembly (Incl items 26, 30 thru 32, B158-8 heat shrink, and B263-1 pins)	X	1
43	B227-8	Switch Assembly	X	1
44	N-3-BK	Clamp	X	1
NOTES				