

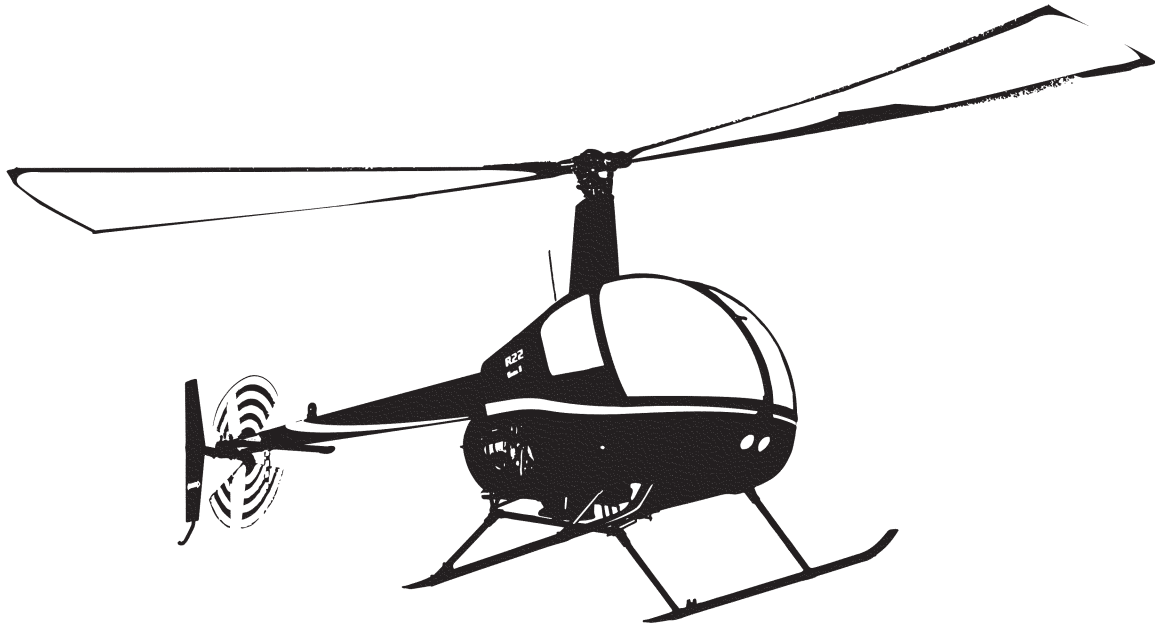
ROBINSON HELICOPTER COMPANY

R22 ILLUSTRATED PARTS CATALOG

RTR 060 VOLUME II

Production Certificate Number 424WE

Type Certificate Number H10WE



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CHAPTER 21

ENVIRONMENT CONTROL

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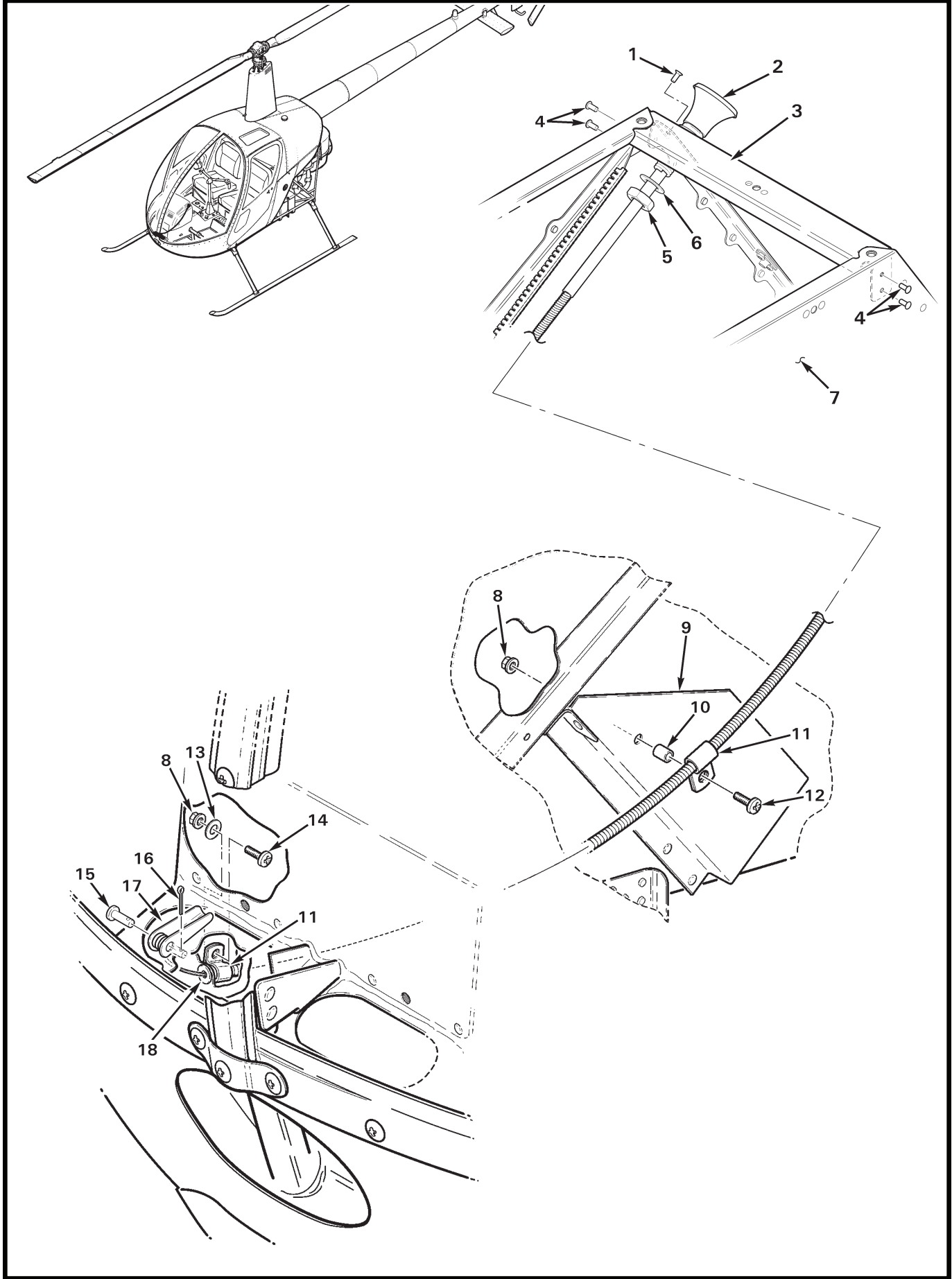


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CABIN VENT CONTROL		
21-1-1	MS20426AD3	Rivet	X	1
2	A522-1	Control – Cabin Air Vent (Incl items 5 and 6)	X	1
3	A368-3	Support Assembly (install using items 1 and 4)	X	1
4	MS20470AD3	Rivet	X	4
5	–	Nut (Ref)		
6	–	Washer (Ref)		
7	A033	Console Assembly (Ref)		
8	D210-3	Nut	X	2
9	A371-2	Stiffener (Ref; see Figure 97-9)		
10	A130-25	Spacer	X	1
11	AN742-3	Clamp	X	2
12	MS27039C1-10	Screw	X	1
13	NAS1149F0332P	Washer	X	1
14	MS27039C1-06	Screw	X	1
15	MS20392-2C13	Pin	X	1
16	MS24665-86	Cotter Pin	X	1
17	A523-5	Flap – Vent Box (Ref)		
18	MS35489-1	Grommet	X	1
NOTES				

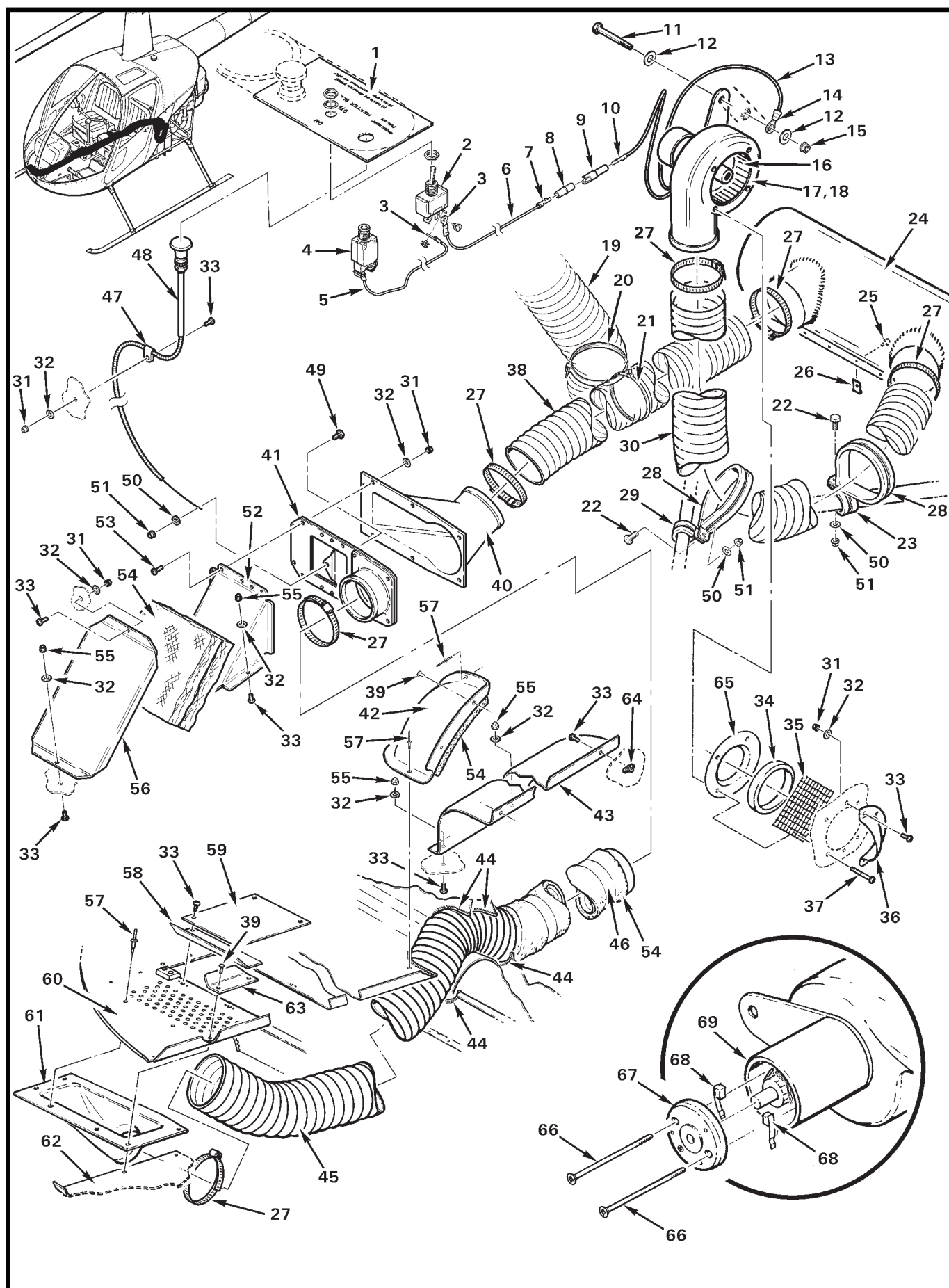


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LANDING LIGHTS INSTALLATION		
33-11-1	AN526C832R8*	Screw	X	8
2	A526-1	Retainer – Landing Light	X	1
3	MS20426AD3	Rivet	X	16
4	MS21069L08	Nutplate	X	8
5	B260-3	Terminal	X	4
6	—	Lockwasher	O	2
7	—	Screw	O	2
8	A859-117	Wire (Ref)		
9	A859-115	Wire (Ref)		
10	B196-26	Lamp (GE, includes items 6 and 7)	X	2
11	MS21042L08	Nut	X	1
12	NAS1149FN816P	Washer	X	1
13	D260-1	Relay – Landing Lights	X	1
14	MS27039C0806	Screw	X	1
15	B262-6	Receptacle (small, used with item 16)	X	1
16	D260-5	Connector (70 amp)	X	1
17	B803-1	Harness Assembly (Incl items 15, 16 and 18)	X	1
18	B262-7	Receptacle (large, used with item 16)	X	1
19	A039-2	Relay – Landing Lights (Ref; no longer available. To replace, order item 20.)		
20	KI-61	Landing Light Relay Conversion Kit (Replaces A039-2 relay assembly with item 13. Includes items 13 and 17.)	X	1
NOTES * B526 screws may be used in this location with B527-08 nylon washers (see part interchangeability list, page viii).				

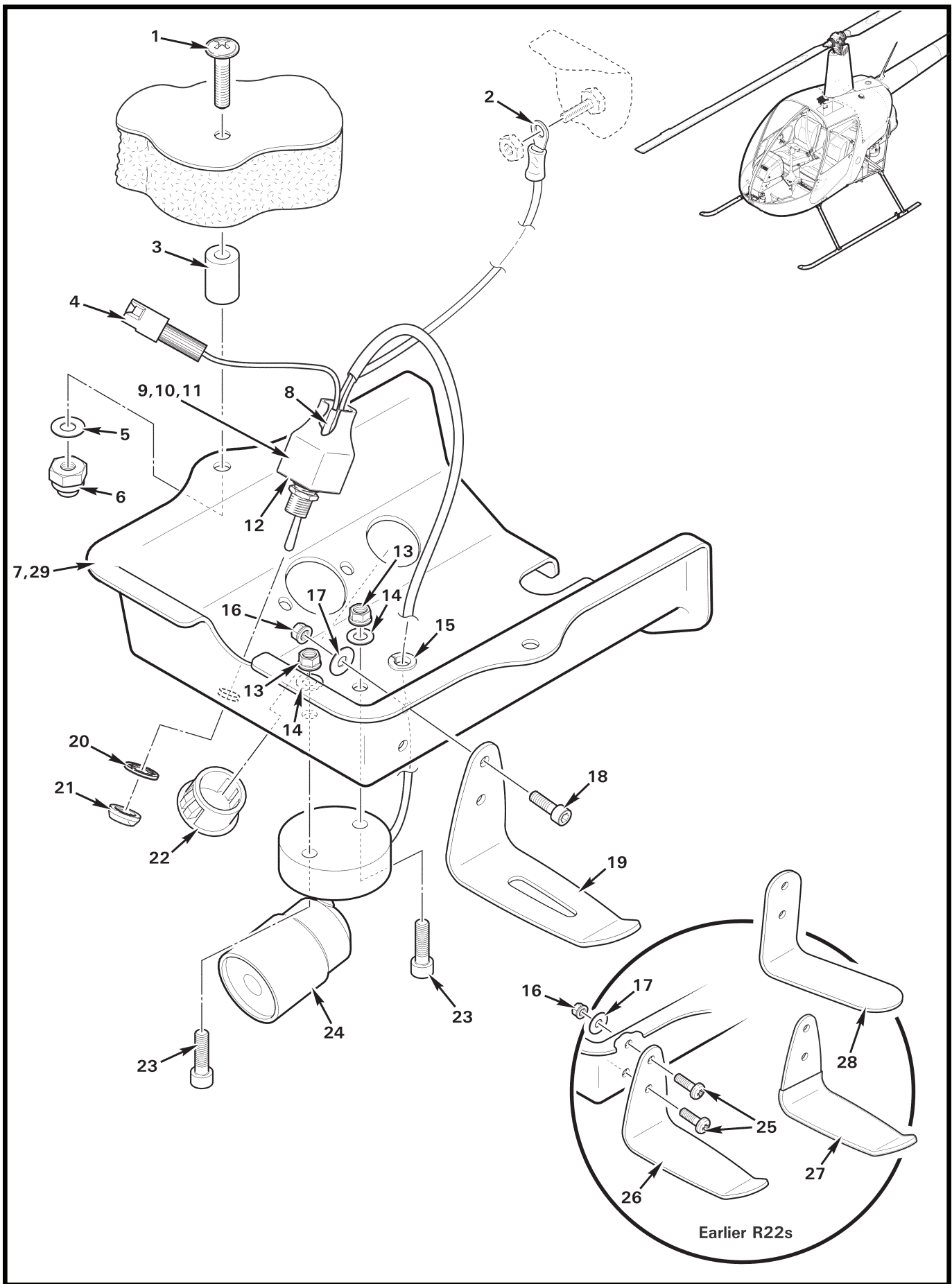
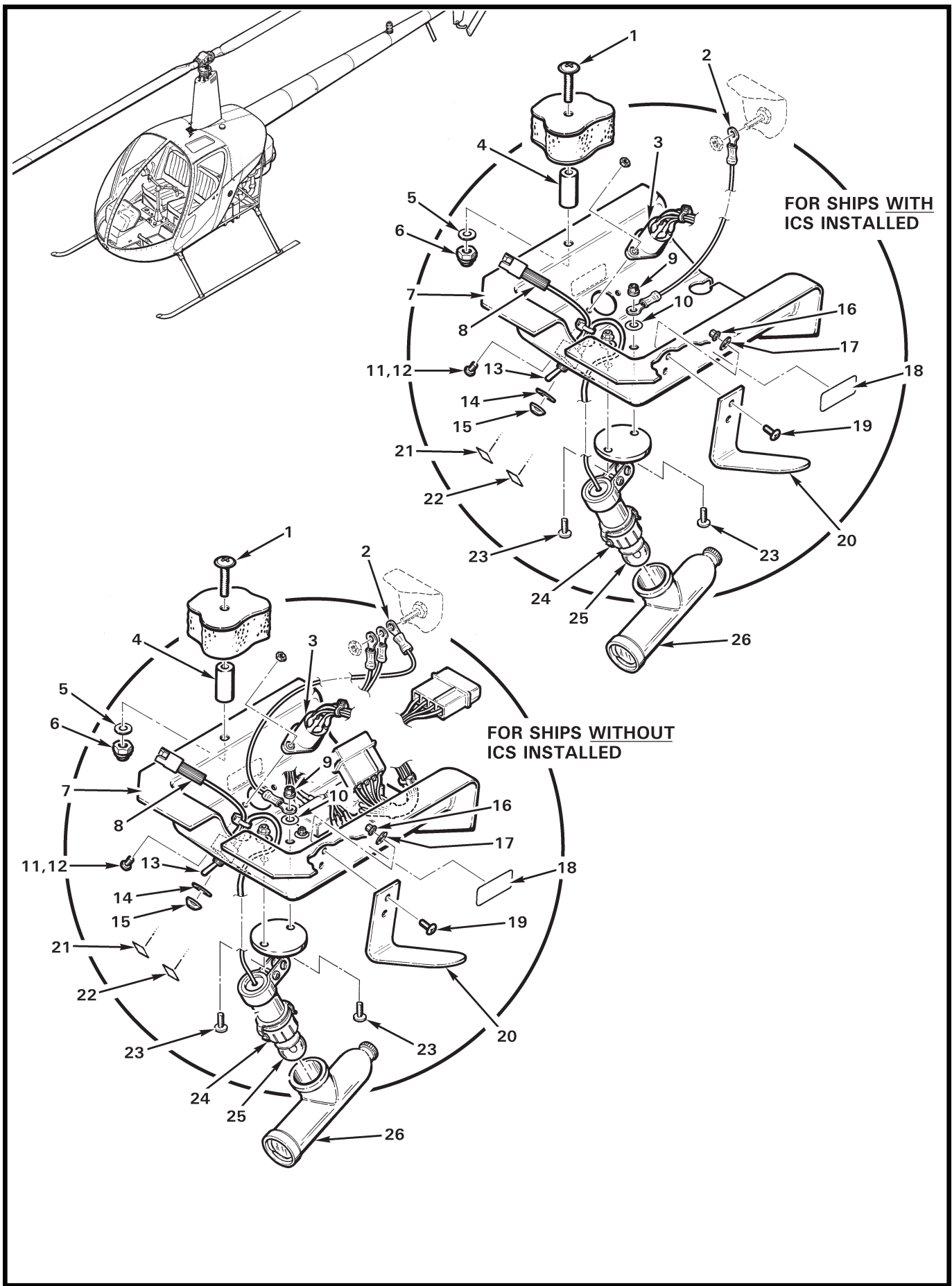


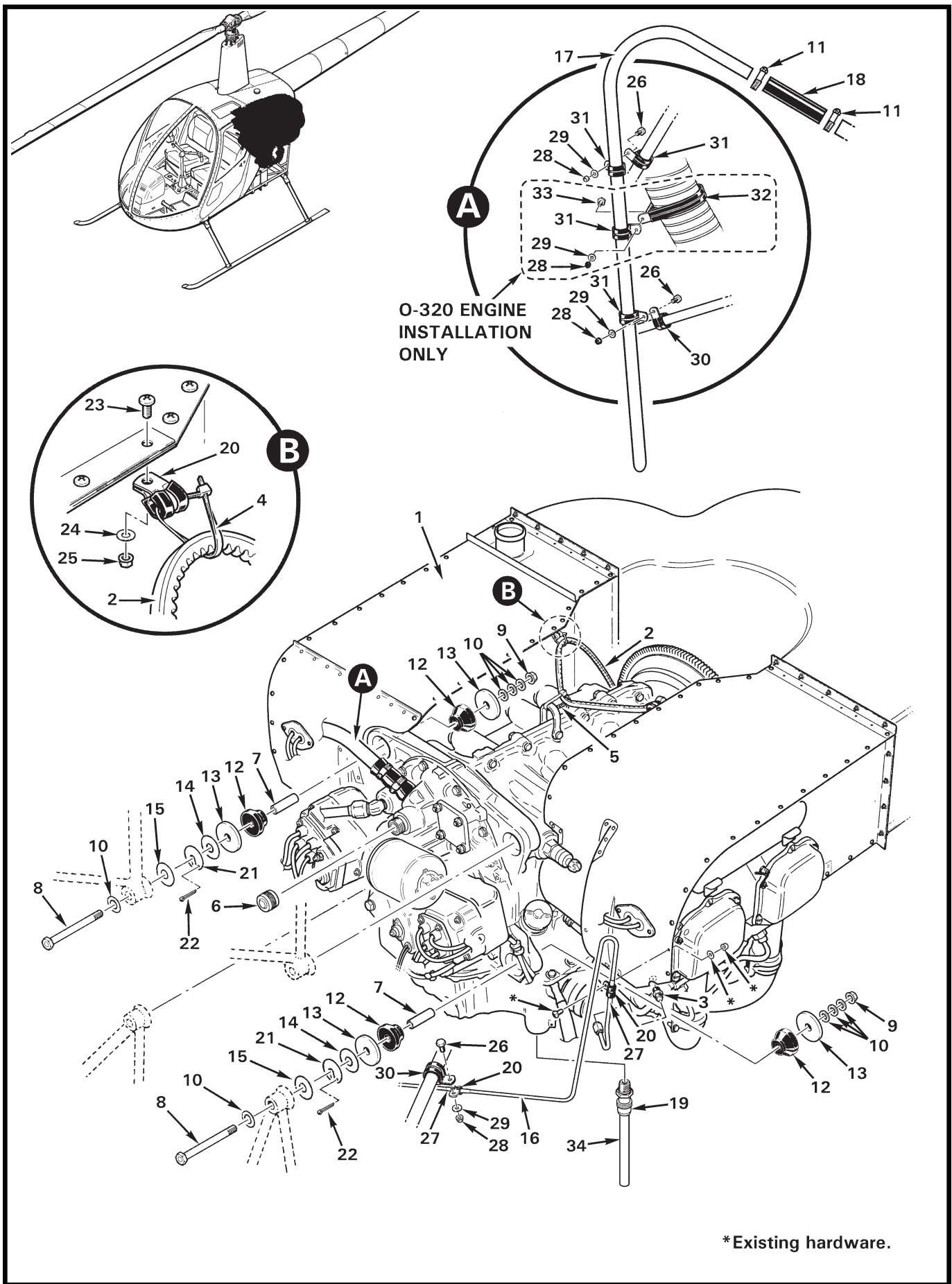
FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SPOTLIGHT INSTALLATION (LED)		
33-13-1	AN525-832R12	Screw	X	2
2	B260-3	Terminal (A039-1858 wire, ground)	X	1
3	94639A838	Spacer (or A130-34)	X	2
4	B263-10	Housing	X	1
	B263-1	Pin	X	1
5	NAS1149FN816P	Washer	X	2
6	B340-4	Nut	X	2
7	A712-4	Cover	X	1
8	B158-2	Heat Shrink (around leads)	X	A/R
9	B300-5	Switch Assembly (Incl items 20 and 21)	X	1
10	R5044	Resistor (not shown)	X	1
11	B0207C1K430F5T	Resistor (not shown)	X	1
12	B158-12	Heat Shrink	X	A/R
13	MS21042L06	Nut	X	2
14	NAS620-6L	Washer	X	2
15	NAS557-3A	Grommet	X	1
16	MS21042L04	Nut	X	2
17	NAS1149FN416P	Washer	X	2
18	NAS1352-04-6	Screw	X	2
19	A752-1	Angle (Revision M & subsequent)	X	1
20	B227-3	Lockwasher	X	1
21	B227-4	Dress Nut	X	1
22	2653	Hole Plug	X	2
23	NAS1352-06-8	Screw	X	2
24	D606-1	Spotlight	X	1
25	MS35206-215	Screw	X	2
26	A752-1	Angle (Revision K & L)	O	1
27	A752-1	Angle (vinyl coated; Revision I & J)	O	1
28	A752-1	Angle (Revision H & prior)	O	1
29	A039-14	Spotlight Assembly (LED with ICS; includes items 2, 4, 7 thru 24.)	X	1
NOTES				



CHAPTER 71

POWERPLANT

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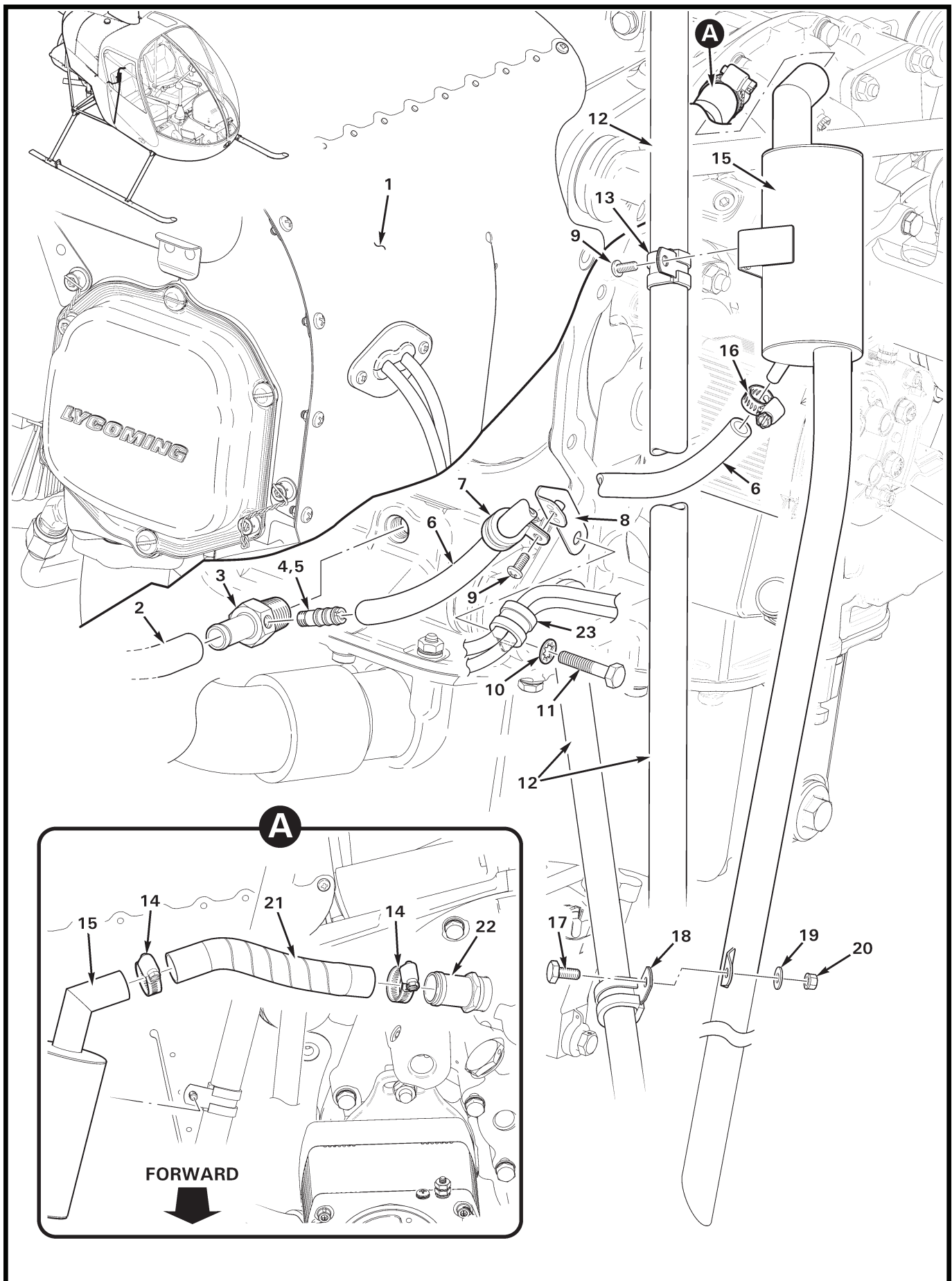


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AIR/OIL SEPARATOR ASSEMBLY INSTALLATION		
71-3B-1	A145	Engine – Textron Lycoming (Ref; see Figure 71-1)		
2	STD-1821 *	Hose (Ref)		
3	C729-1 **	Adapter	X	1
4	C729-2	Fitting (Install in item 3; apply item 5 to threads and install fully bottomed.)	X	1
5	B270-20	Adhesive	X	A/R
6	A729-76	Tube	X	1
7	MS21919WDG8	Clamp	X	1
8	C729-11	Bracket Assembly (against engine)	X	1
9	MS27039C0806	Screw	X	2
10	STD-160 *	Lockwasher	X	1
11	LW-25-1.25 *	Bolt (250-20 x 1.25-inch length)	X	1
12	A046-2	Frame Assembly – Lower (RH, Ref)		
13	MS21919WDG12	Clamp	X	1
14	B277-12	Clamp	X	2
15	C728-1	Separator Assembly – Air/Oil	X	1
16	B277-4	Clamp	X	1
17	AN3-3A	Bolt	X	1
18	MS21919WDG10	Clamp	X	1
19	NAS1149F0332P	Washer	X	1
20	D210-3	Nut	X	1
21	A785-43	Hose	X	1
22	71140 *	Fitting (Ref, breather)		
23	LW14060 *	Clamp (Ref)		
NOTES * Lycoming part number. ** Install using B270-6 sealant or A701-11 tape on threads.				

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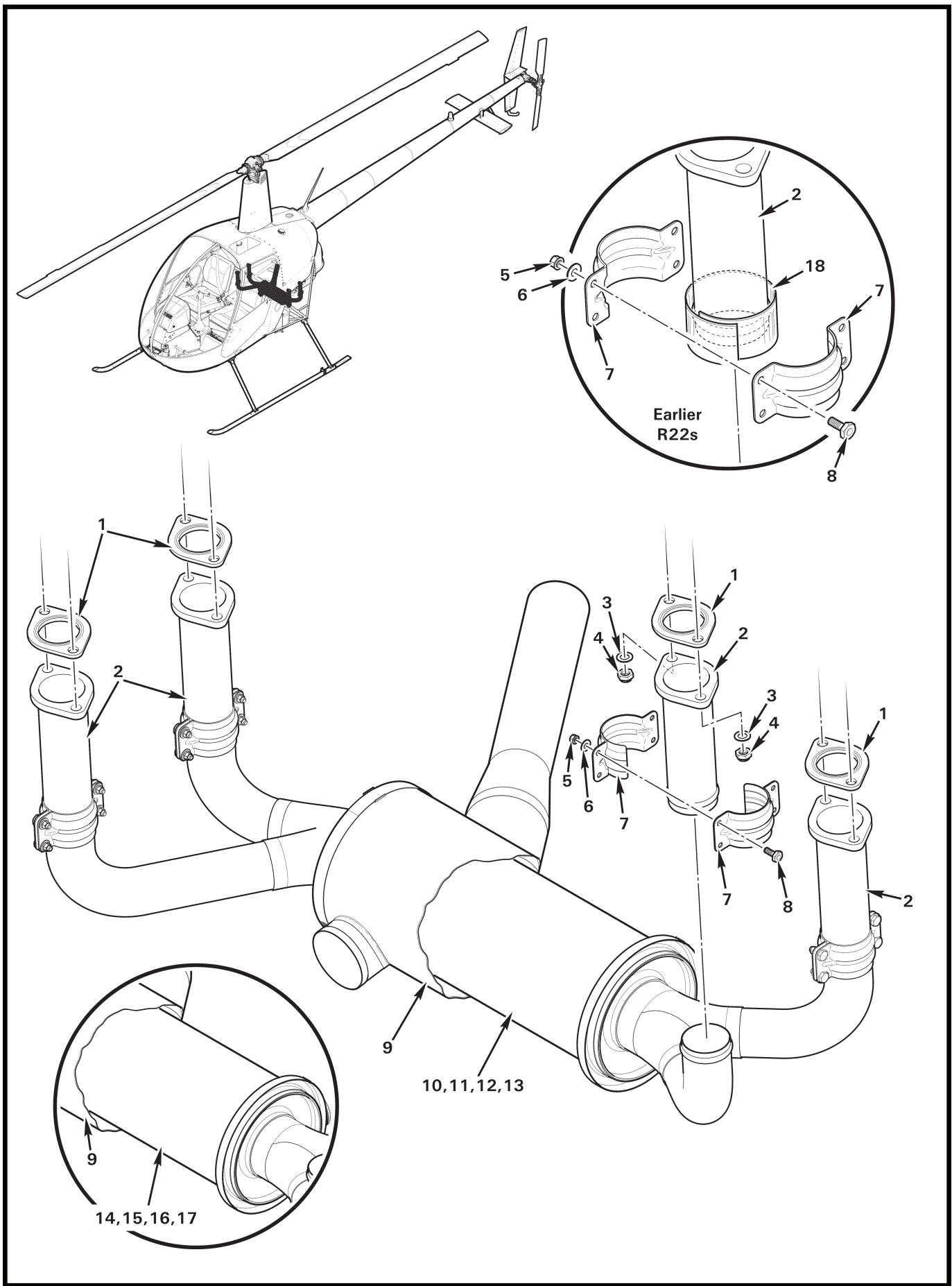


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		EXHAUST MUFFLER ASSEMBLY		
71-17-1	77611*	Gasket	X	4
2	A169-23	Riser	X	4
3	NAS1149F0532P	Washer	X	8
4	21FKF-518	Nut	X	8
5	D210-3	Nut (or MS21043-3 or MS21043-3N)	X	16
6	NAS1149F0332P	Washer	X	16
7	A169-14	Bead Clamp	X	8
8	AN3-4A	Bolt (or AN3C4A)	X	16
9	A169	Shroud Assembly – Muffler (Ref, for use with cabin heater. See Figures 21-3 and 21-7.)		
10	A169-35	Muffler Assembly (6-inch diameter, for O-320 engine; includes items 2, 5 thru 8, and 11.)	X	1
11	A169-36	Muffler Sub-Assembly (6-inch diameter, for O-320 engine; welded muffler assembly only.)	X	1
12	A169-37	Muffler Assembly (6-inch diameter, for O-360 engine; includes items 2, 5 thru 8, and 13.)	X	1
13	A169-38	Muffler Sub-Assembly (6-inch diameter, for O-360 engine; welded muffler assembly only.)	X	1
14	A169-6	Muffler Assembly (5-inch diameter, for O-320 engine; includes items 2, 5 thru 8, 15, and 18.)	O	1
15	A169-8	Muffler Assembly (5-inch diameter, for O-320 engine; welded muffler assembly only.)	X	1
16	A169-24	Muffler Assembly (5-inch diameter, for O-360 engine; includes items 2, 5 thru 8, 17, and 18.)	O	1
17	A169-25	Muffler Sub-Assembly (5-inch diameter, for O-360 engine; welded muffler assembly only.)	O	1
18	A701-10	Tape (stainless steel; do not use beneath exhaust bead clamps which incorporate integral barriers.)	X	A/R
NOTES * Lycoming part number.				

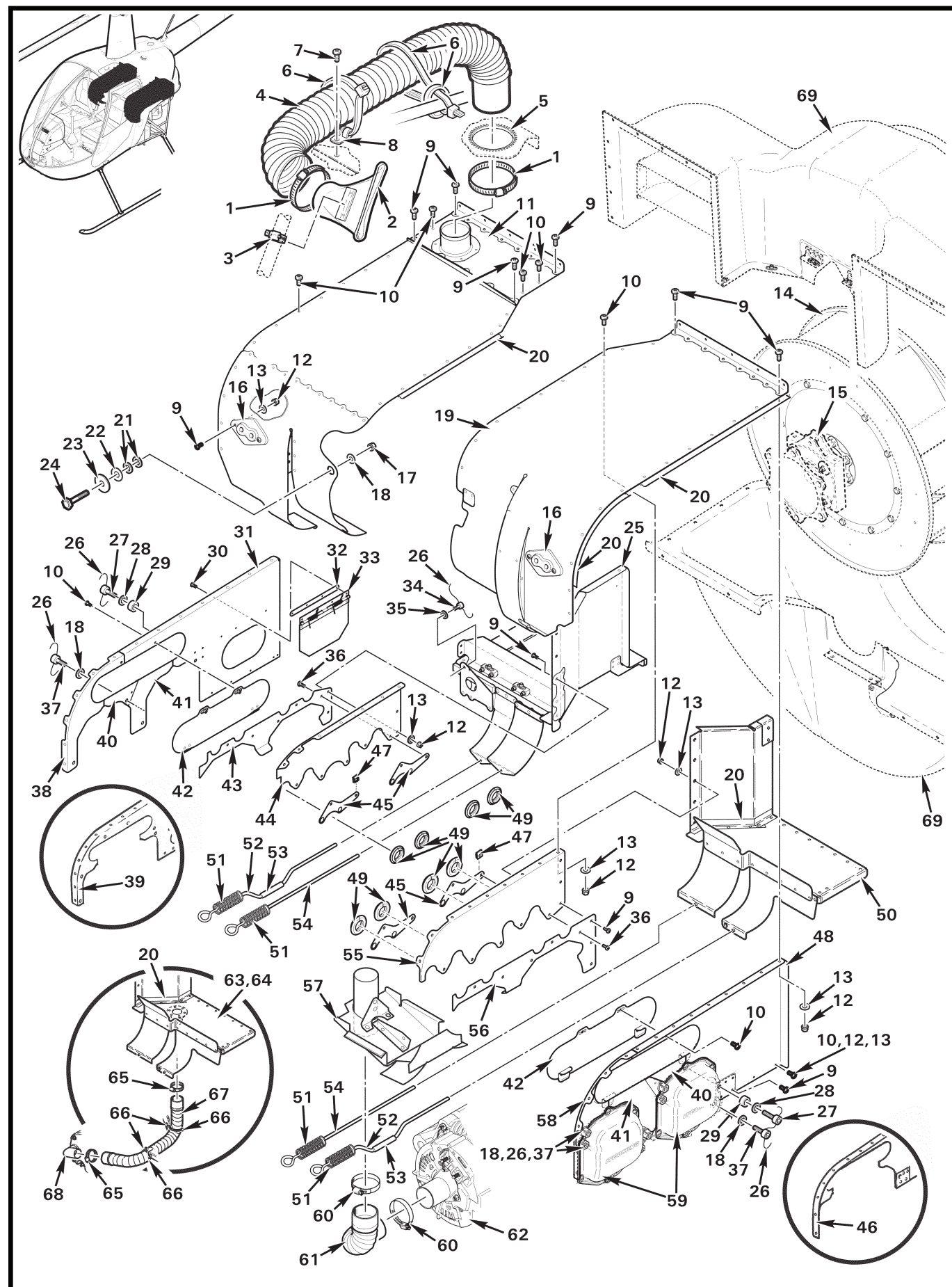


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COOLING PANELS		
71-19-1	B277-28	Clamp (main rotor gearbox cooling hose)	X	2
2	A747-1	Nozzle Assembly	X	1
3	B277-8	Clamp	X	1
4	A785-6	Hose	X	1
5	MS21266-1N	Grommet (12-inch length)	X	1
	B270-8QT	Adhesive (use to install MS21266-1N grommet)	X	A/R
6	MS3367-3-9	Ty-Rap (main rotor gearbox cooling hose)	X	3
7	AN525-832R6	Screw	X	1
8	MS21919WDG5	Clamp	X	1
9	MS27039C0806	Screw	X	13
10	MS27039C0805	Screw (or AN525-832R6; earlier R22s)	X	A/R
11	A308-1 *	Cover (RH, O-320 engine)	X	1
	A308-6 *	Cover (RH, O-360 engine)	X	1
12	MS21042L08	Nut	X	A/R
13	NAS1149FN816P	Washer	X	A/R
14	B174-1	Fanwheel Assembly (Ref, see Figure 71-21)		
15	A007-6	Fanshaft and Bearing Assembly (Ref, see Figure 63-11)		
	A007-5	Fanshaft and Bearing Assembly (Ref, see Figure 63-11)		
16	LW-M-2375	Harness Plate	X	2
17	D210-4	Nut	X	1
18	NAS1149F0432P	Washer	X	15
19	A312-1 *	Cover Assembly (LH, O-320 engine)	X	1
	A312-6 *	Cover Assembly (LH, O-360 engine)	X	1
20	A701-1 *	Foil Tape	X	A/R
21	A141-11	Washer (under A141-14 washer)	X	2
22	A141-32	Washer	X	1
23	A141-14	Washer	X	1
24	NAS6604-6 **	Bolt (or NAS6604-7)	X	1
25	A309-1 *	Panel Assembly (RH, O-320 engines. Required for small [A649-1] oil cooler. Originally installed on Standard, HP, and Alpha.)	O	1
	A309-15 *	Panel Assembly (RH, O-320 engines. Required for large [A649-2 or C649-1] oil cooler. Originally installed on Beta and Mariner.)	X	1
	C309-4 *	Panel Assembly (RH, O-360 engine. Used on Beta II and Mariner II.)	X	1
NOTES * Install item 20 as required at all internal baffle relief holes, gaps, and mating edges of noted items. ** Select bolt which, after correct torque is applied, exposes 2 to 4 threads beyond nut.				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
COOLING PANELS (Cont'd)				
71-19-26	MS20995C32	0.032-inch dia Safety Wire	X	A/R
27	NAS1352-4H14P	Screw	X	2
28	A141-11	Washer	X	2
29	C130-9	Spacer	X	2
30	MS20470AD3	Rivet	X	4
31	A305-14*	Panel Assembly – Outboard RH	X	1
32	A775-3	Spacer	O	1
33	A775-1	Cover Assembly (oil cooler access)	X	1
34	NAS1352-3H6P	Screw (thru A309 panel to cylinder head)	X	1
35	AN960-10L	Washer	X	A/R
36	AN525-832R6	Screw	X	8
37	NAS1352-4H10P	Screw	X	14
38	A305-18*	Panel – Forward (RH)	X	1
39	A305-6*	Panel Assembly – Outboard (RH; Ref, no longer available. Replace with items 31, 38, 40 & 41.)		
40	A305-8	Panel (LH and RH)	X	2
41	A305-7	Panel Assembly (LH and RH)	X	2
42	A449-1	Cover Assembly (spark plug access, LH and RH)	X	2
43	A306-2*	Panel – Lower (RH)	X	1
44	A306-1*	Panel – Upper (RH)	X	1
45	A484-3	Attach Plate	X	4
46	A305-5*	Panel Assembly – Outboard (LH; Ref, no longer available. Replace with items 40, 41, 48, and 58.)		
47	B162-2	Clipnut	X	8
48	A305-13*	Panel Assembly – Outboard (LH)	X	1
49	B401-1	Grommet (push rod housing; install small diameter inboard)	X	8
50	A313-9*	Panel Assembly (LH; ship S/N 3689 and subsequent)	X	1
51	D774-13	Spring	X	4
52	A487-2	Retainer	X	2
53	B161-102	Spirap (2 places, length as required)	X	A/R
54	A487-1	Retainer	X	2
55	A310-1*	Panel – Upper (LH)	X	1
56	A310-2*	Panel – Lower (LH)	X	1
57	D754-4	Baffle Assembly (for O-360 engine)	X	1
	D754-7	Baffle Assembly (for O-320 engine)	X	1

NOTES * Install item 20 as required at all internal baffle relief holes, gaps, and mating edges of noted items.

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COOLING PANELS (Cont'd)		
71-19-58	A305-17*	Panel – Forward (LH)	X	1
59	61247**	Cover – Rocker Box (Ref)		
60	B277-24	Clamp	X	2
61	A785-32	Hose (1.5-inch diameter)	X	1
62	D748-4	Alternator – Lightweight (Ref, see Figure 71-31)		
63	A313-1*	Panel Assembly (LH, O-320 engine)	X	1
64	A313-7*	Panel Assembly (LH, O-360 engine)	X	1
65	B277-12	Clamp	X	2
66	MS3367-4-9	Ty-Rap (alternator cooling hose)	X	4
67	A785-7	Hose – Alternator Cooling (1.0-inch diameter)	X	1
68	D747-5	Shroud – Alternator Cooling (Ref, see Figure 71-23)		
	ALU-1062A***	Shroud – Alternator Cooling (Ref, used only with item 67)		
69	R7156	Scroll Set (Ref, see Figure 71-21)		
NOTES * Install item 20 as required at all internal baffle relief holes, gaps, and mating edges of noted items. ** Lycoming part number. *** Kelly Aerospace part number.				

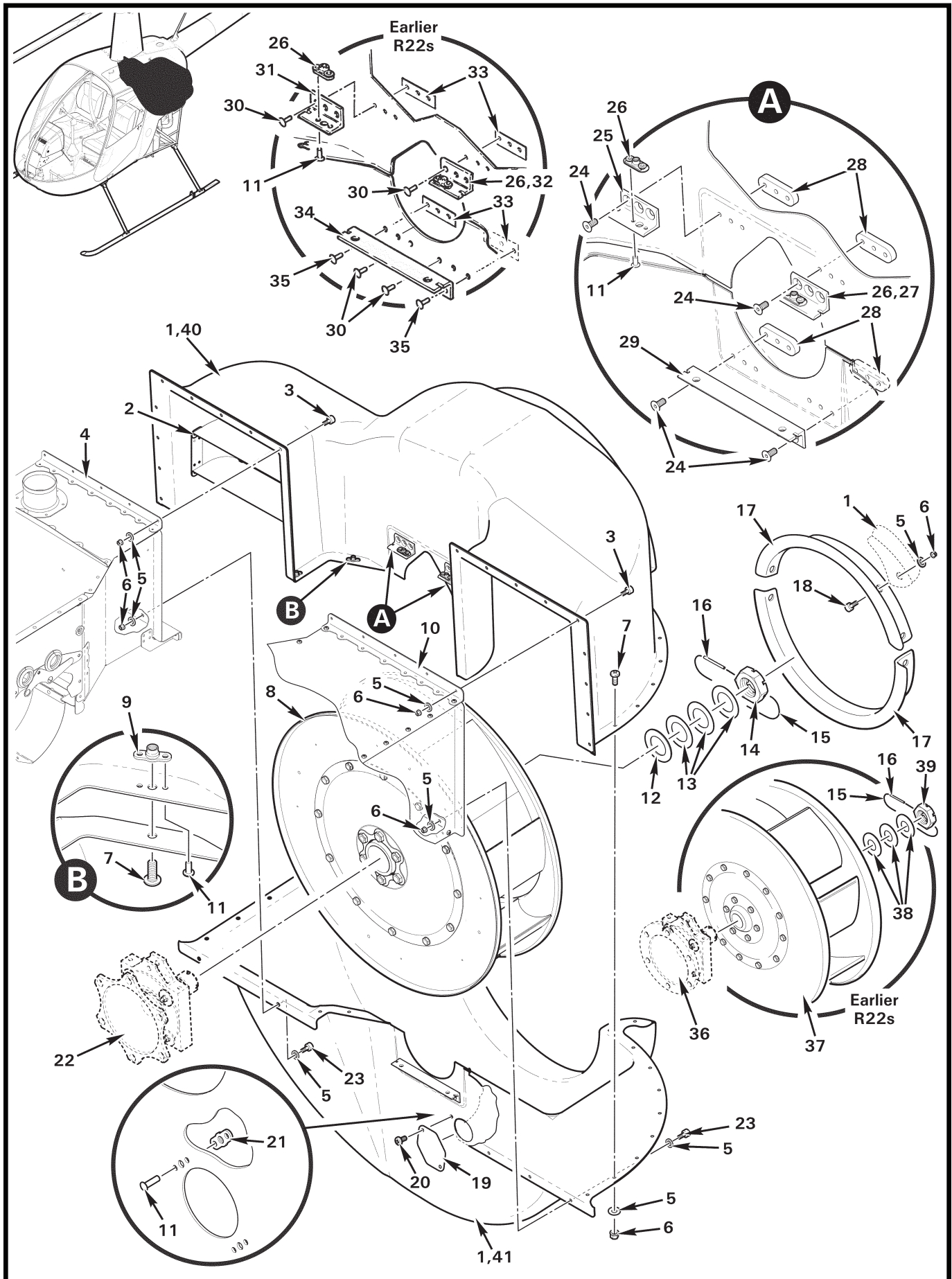


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FANWHEEL & SCROLL ASSEMBLY INSTALLATION		
71-21-1	R7156	Scroll Set (For R22s with large [A649-2 or C649-1] oil cooler. Includes items 5 [8], 6 [8], 11 [4], 17 thru 20, 24 thru 29, 40, and 41.)	X	1
2	B169-5	Vane Assembly (install using MS20470AD4 rivets)	X	1
3	AN525-832R6	Screw	X	18
4	A308-1	Cover (Ref; see Figure 71-19)		
	A308-6	Cover (Ref; see Figure 71-19)		
5	AN960-8L	Washer	X	56
6	MS21042L08	Nut	X	51
7	AN525-832R6	Screw (or AN525-832R7 or AN525-832R8 as required for proper thread engagement)	X	24
8	B174-1*	Fanwheel Assembly (Revision F and subsequent)	X	1
9	MS21069L08	Nutplate	X	4
10	A312-1	Cover (Ref; see Figure 71-19)		
	A312-6	Cover (Ref; see Figure 71-19)		
11	MS20426AD3	Rivet	X	16
12	MS20002-18	Washer (against fanwheel hub)	X	1
13	NAS1149F1832P	Washer (or AN960-1816L)	X	A/R
14	AN320-18	Nut	X	1
15	MS20995C41	0.041-inch dia. Safety Wire	X	A/R
16	B350-2	Spring Pin (or MS9048-112)	X	1
17	B229-2	Lip	X	2
18	MS27039C0805	Screw	X	8
19	D229-4	Cover	X	1
20	MS35206-227	Screw	X	2
21	MS21069L06	Nutplate	X	2
22	A007-6	Fanshaft and Bearing Assembly (Ref, see Figure 63-11)		
	A007-5	Fanshaft and Bearing Assembly (Ref, see Figure 63-11)		
23	NAS1352-08-8P	Screw	X	5
24	91266A192	Screw	X	12
25	A185-8	Bracket	X	1
26	MS21075L3E	Nutplate (install using item 11 [4])	X	2
27	A185-9	Bracket (without nutplate)	X	1
28	A185-7	Plate	X	4
29	A185-6	Bracket	X	1
NOTES * Compatible with item 22 only.				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FANWHEEL & SCROLL ASSEMBLY INSTALLATION (Cont'd)		
71-21-30	MS20470AD5	Rivet	X	8
31	A185-2	Bracket	X	1
32	A185-5	Bracket (without nutplate)	X	1
33	A185-3	Plate	X	4
34	A185-1	Bracket	X	1
35	MS20426AD5	Rivet	X	4
36	A007-3 *	Fanshaft and Bearing Assembly (Ref, no longer available)		
37	B174-1 *	Fanwheel Assembly (Revision E and prior. Ref, no longer available)		
38	AN960-1616L	Washer (spares)	X	A/R
39	AN320-15	Nut (spares)	X	A/R
40	A236-1	Scroll – Upper Half (includes items 2, 9 [4], and 11 [8])	O	1
41	A236-3	Scroll – Lower Half (includes items 11 [4], and 21)	O	1
NOTES * To replace, order items 8, 12 thru 16, and 22.				

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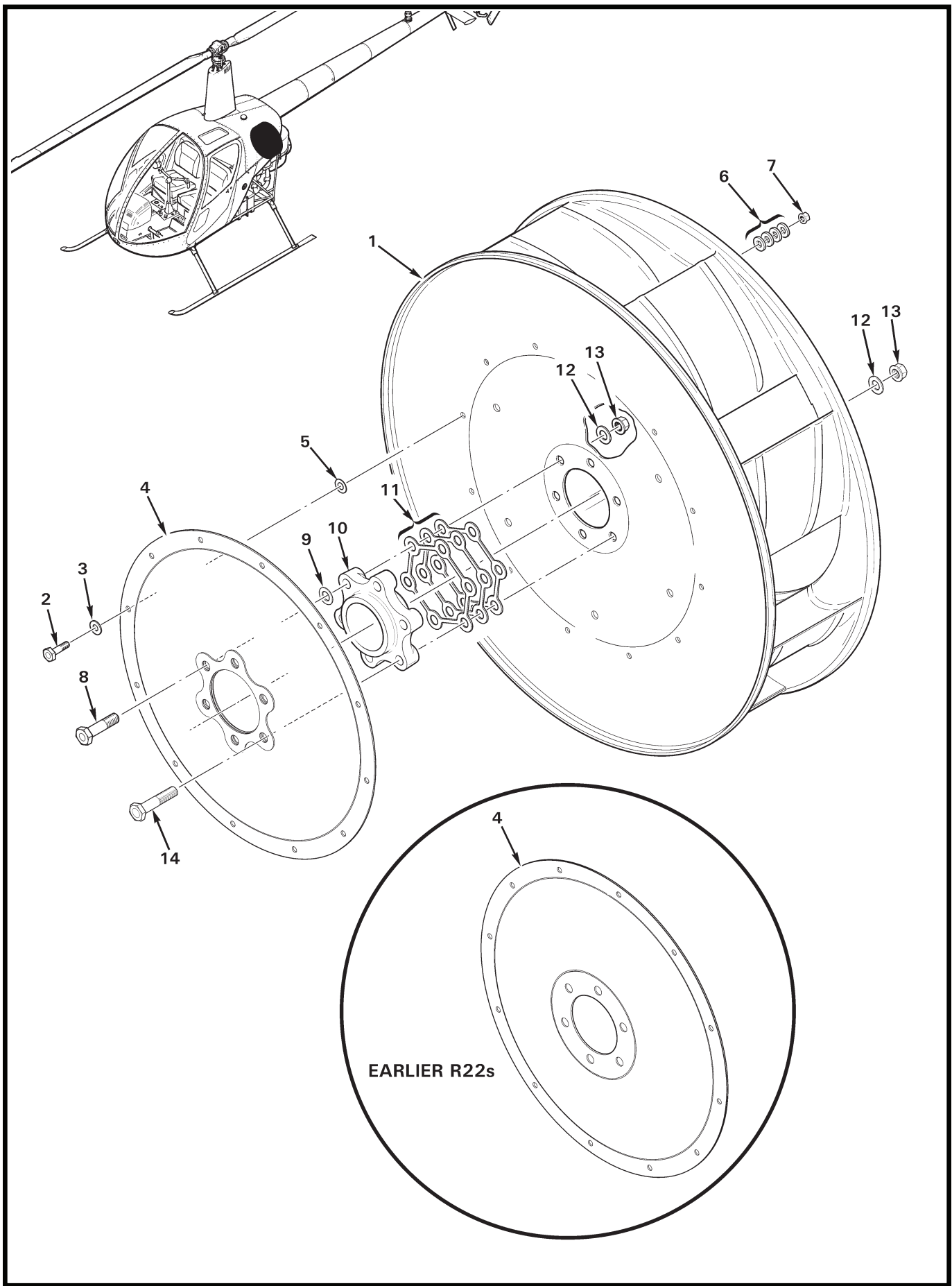


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
71-21D-1	B174 FANWHEEL ASSEMBLY			
	B174-1 *	Fanwheel Assembly (Incl A524-3 Fanwheel, and items 2 thru 14)	X	1
	A524-3	Fanwheel (Ref)		
	2 NAS6603-6	Bolt	X	12
	3 NAS1149F0332P	Washer	X	12
	4 A187-4	Cone Assembly	O	1
	5 NAS1149F0316P	Washer	X	12
	6 NAS1149D0363J	Washer (wet prime between washer and fanwheel)	X	48
	7 D210-3	Nut	X	12
	8 NAS6605-12	Bolt (or NAS6605-13 or -14 as required for 2–4 threads exposed beyond nut)	X	3
	9 NAS1149C0516R	Washer	X	6
	10 A186-2	Hub (wet prime between hub and adjacent components and in bolt hole)	X	1
	11 A178-2	Spacer (1–3 as required for shimming; wet prime between spacer and fanwheel)	X	A/R
	12 NAS1149F0532P	Washer (wet prime between washer and fanwheel)	X	6
	13 D210-5	Nut	X	6
	14 B660-1 **	Bolt (Installed 120° apart. Exposed thread limits do not apply.)	X	3
NOTES * See R22 MM § 6.240 for dynamic balance procedure. ** Originally installed on B174-1 Revision Q and subsequent fanwheels. May also be installed on Revision P and prior fanwheels.				

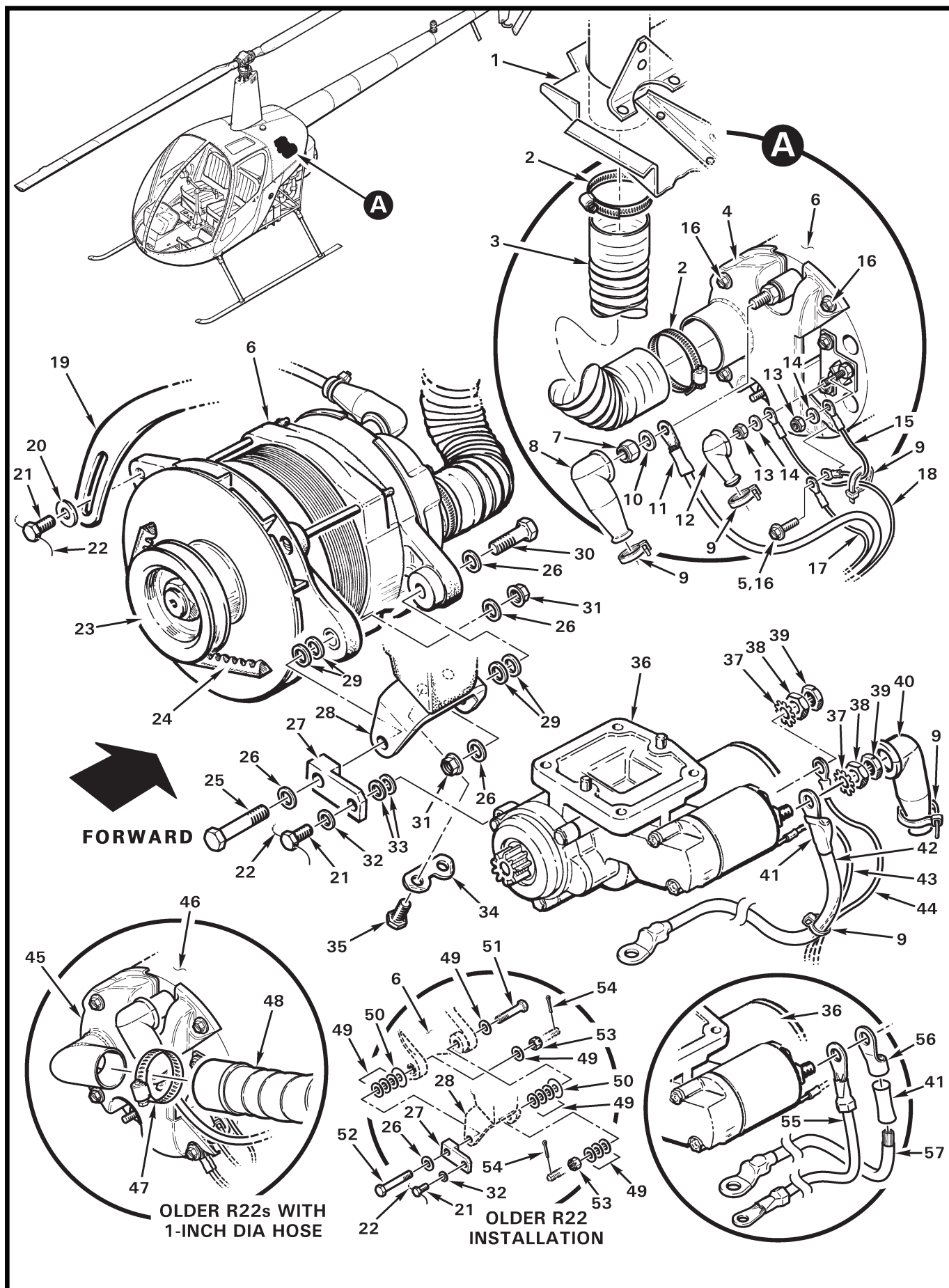


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SKY-TEC STARTER INSTALLATION		
71-29-1	D748	Alternator Assembly (Ref, see Figure 71-23)		
2	NAS1149F0632P	Washer	X	4
3	AN6-11A*	Bolt (or AN6-12A; as required for shimming)	X	1
4	D210-6	Nut	X	2
5	NAS1149F0663P*	Washer (or NAS1149F0632P, NAS1149D0616J; as required for shimming)	X	A/R
6	AN6-16A*	Bolt (or AN6-15A or AN6-17A)	X	1
7	B299-3	Link	X	1
8	B200-1	Bracket	X	1
9	NAS1149F0532P*	Washer (or NAS1149F0516P; as required for shimming)	X	A/R
10	149-12HT/H**	Starter (Incl items 17, 20, and 21)	X	1
11	MS20995C32	0.032-inch dia. Safety Wire	X	A/R
12	LW-31H0.75***	Bolt (Ref, supplied with engine)		
13	STD-35***	Washer	X	1
14	LW-31-0.94***	Bolt (supplied with engine)	X	1
15	73383***	Lockplate	X	1
16	B330-16	Palnut	X	2
17	—	Washer and Nut (Ref, supplied with starter)		
18	A059-591	Wire (Ref)		
19	A059-582	Wire (Ref)		
20	—	Terminal (Ref, supplied with starter)		
21	—	Nut (Ref, supplied with starter)		
22	A067-581	Cable Assembly (aft battery)	X	1
23	B158-8	Heat Shrink	X	A/R
24	MS3367-4-9	Ty-Rap	X	1
25	MS25171-2S	Nipple (aft battery)	X	1
	MS25171-4S	Nipple (forward battery; not shown)	X	1
26	A067-673	Wire (forward battery)	X	1
27	A067-587	Wire (forward battery)	X	1
28	B260-20	Terminal	X	1
NOTES * Select hardware which, after correct torque is applied, exposes 2 to 4 threads beyond nut. ** Sky-Tec part number. *** Lycoming part number.				

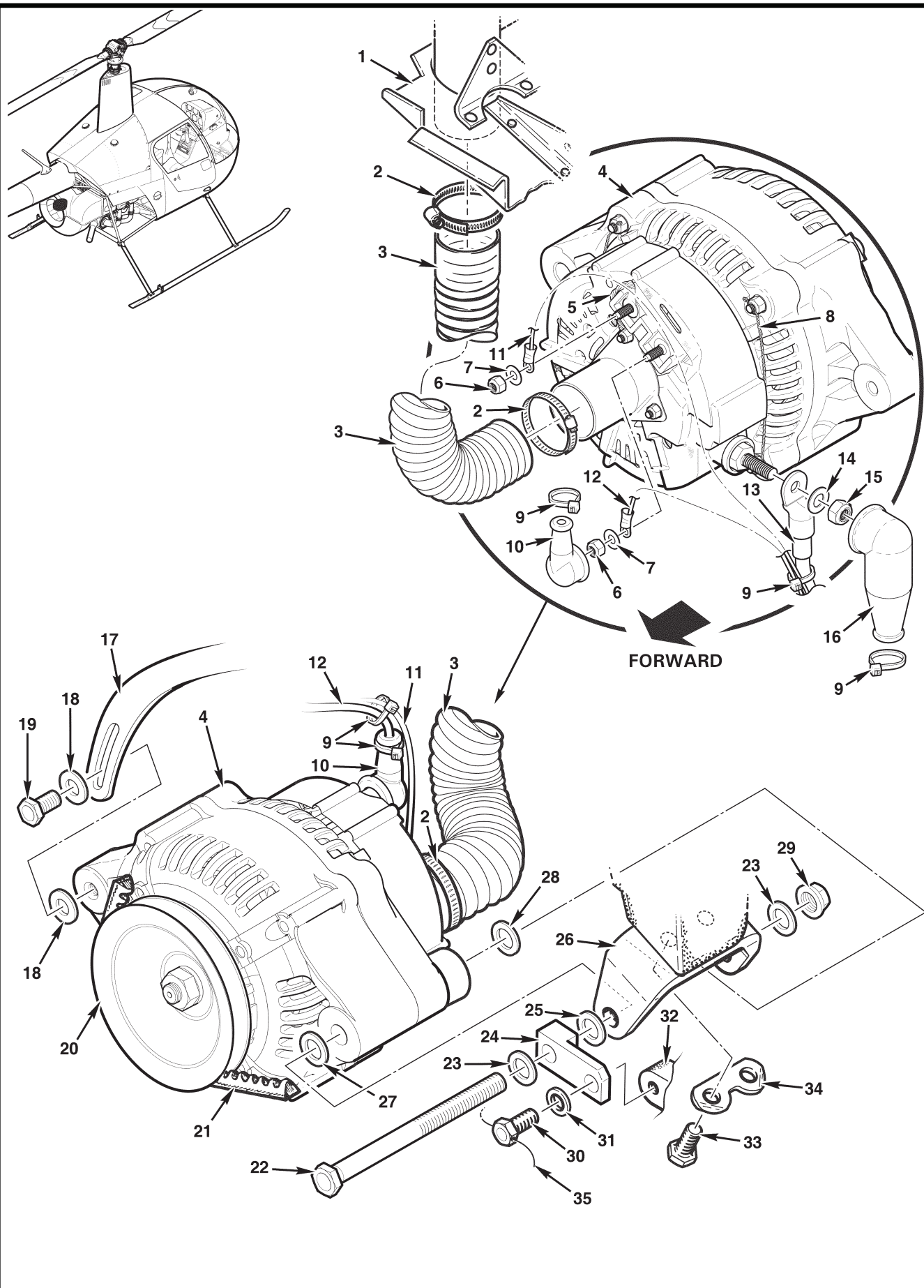


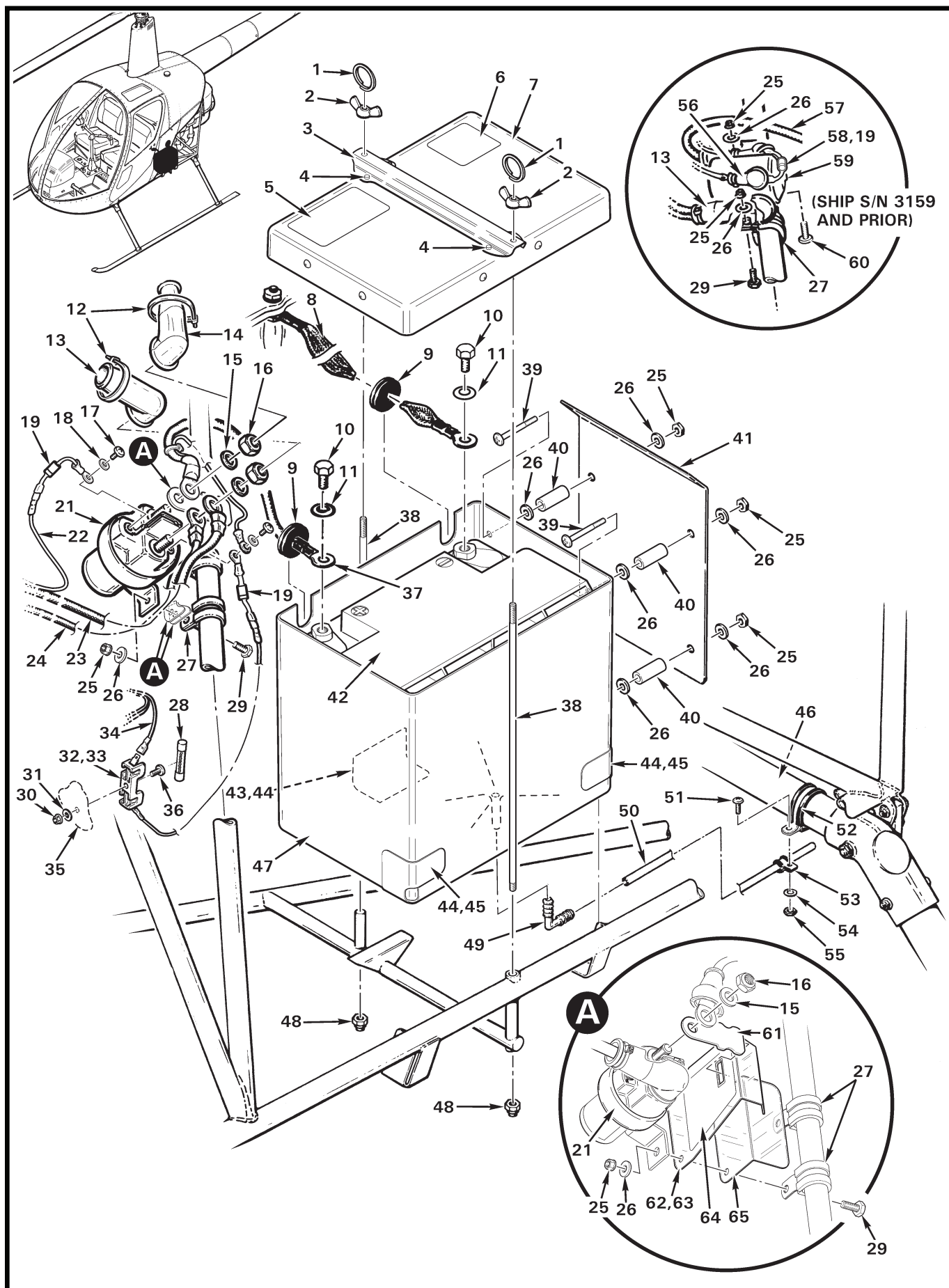
FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LIGHTWEIGHT ALTERNATOR INSTALLATION*		
71-31-1	D754-4	Baffle Assembly (Ref, see Figure 71-19)		
2	B277-24	Clamp (Ref, see Figure 71-19)		
3	A785-32	Hose (Ref, 1.50-inch dia., see Figure 71-19)		
4	D748-4	Alternator Assembly (Includes items 5 thru 8, 14, 15, and 20.)	X	1
5	—	Jumper (supplied with alternator)	O	1
6	90576A103	Nut	X	2
7	NAS1149FN816P	Washer	X	2
8	—	Safety Wire (supplied with alternator)	O	1
9	MS3367-4-9	Ty-Rap	X	A/R
10	MS25171-1S	Nipple	X	1
11	A859-33	Wire (Ref)		
12	A859-23	Wire (Ref)		
13	A780-54	Wire	X	1
14	NAS1149F0432P	Washer	X	1
15	94645A205	Nut	X	1
16	MS25171-2S	Nipple	X	1
17	B200-3	Arm	X	1
18	STD-1727**	Washer ([1] under item 19, [1] between items 4 and 17)	X	2
19	NAS6605-5	Bolt (Ref)		
20	B200-6	Pulley	X	1
21	B173-1	V-Belt	X	1
22	AN6-42A	Bolt (use with B299-1 link [B & C starter])	X	1
	AN6-43A	Bolt (use with B299-3 link [Skytech starter])	X	1
23	NAS1149F0632P	Washer	X	2
24	B299-1	Link (shown; use with B & C starter)	X	1
	B299-3	Link (use with Sky-Tec starter)	X	1
25	NAS1149F0632P	Washer (or NAS1149D0616J as required to fill gap)	X	A/R
26	B200-1	Bracket	X	1
27	STD-690**	Washer (as required to align belt grooves)	X	1
28	STD-690**	Washer (may be replaced with NAS1149F0632P, NAS1149F0663P, or NAS1149D0616J as required to fill gap)	X	A/R
29	D210-6	Nut	X	1
30	LW-31HO.75**	Bolt (Ref, supplied with engine)		
31	STD-35**	Washer (Ref, supplied with engine)		
NOTES * O-360 engine only. ** Lycoming part number.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LIGHTWEIGHT ALTERNATOR INSTALLATION (Cont'd)		
71-31-32	–	Starter (Ref, see Figures 71-23 and 71-29)		
33	LW-31-0.94**	Bolt (supplied with engine)	X	2
34	73383**	Lockplate	X	1
35	MS20995C32	Safety Wire (0.032-inch dia.)	X	A/R
NOTES ** Lycoming part number.				

CHAPTER 96

ELECTRICAL SYSTEM

<i>Figure</i>	<i>Title</i>	<i>Page</i>
96-1	Aft Battery Installation	96.0
96-5	Nose Battery Installation	96.4
96-9	Nose Battery Relay Installation	96.8
96-11	Circuit Breaker Panel	96.10
96-15	Electrical Components	96.14
96-19	Electrical Wire Harness	96.18
96-21	RPM Governor Installation	96.20
96-23B	RPM Governor Installation	96.23A
96-25	Hourmeter and Collective-activated Switches	96.24
96-27	Carbon Monoxide Detector Installation	96.26
96-29	Strobe Power Supply Installation	96.28
96-31	Floor Transmit Switch Installation	96.30
96-33	Accessory Bars Installation	96.32
96-37	Cockpit Camera Installation	96.36



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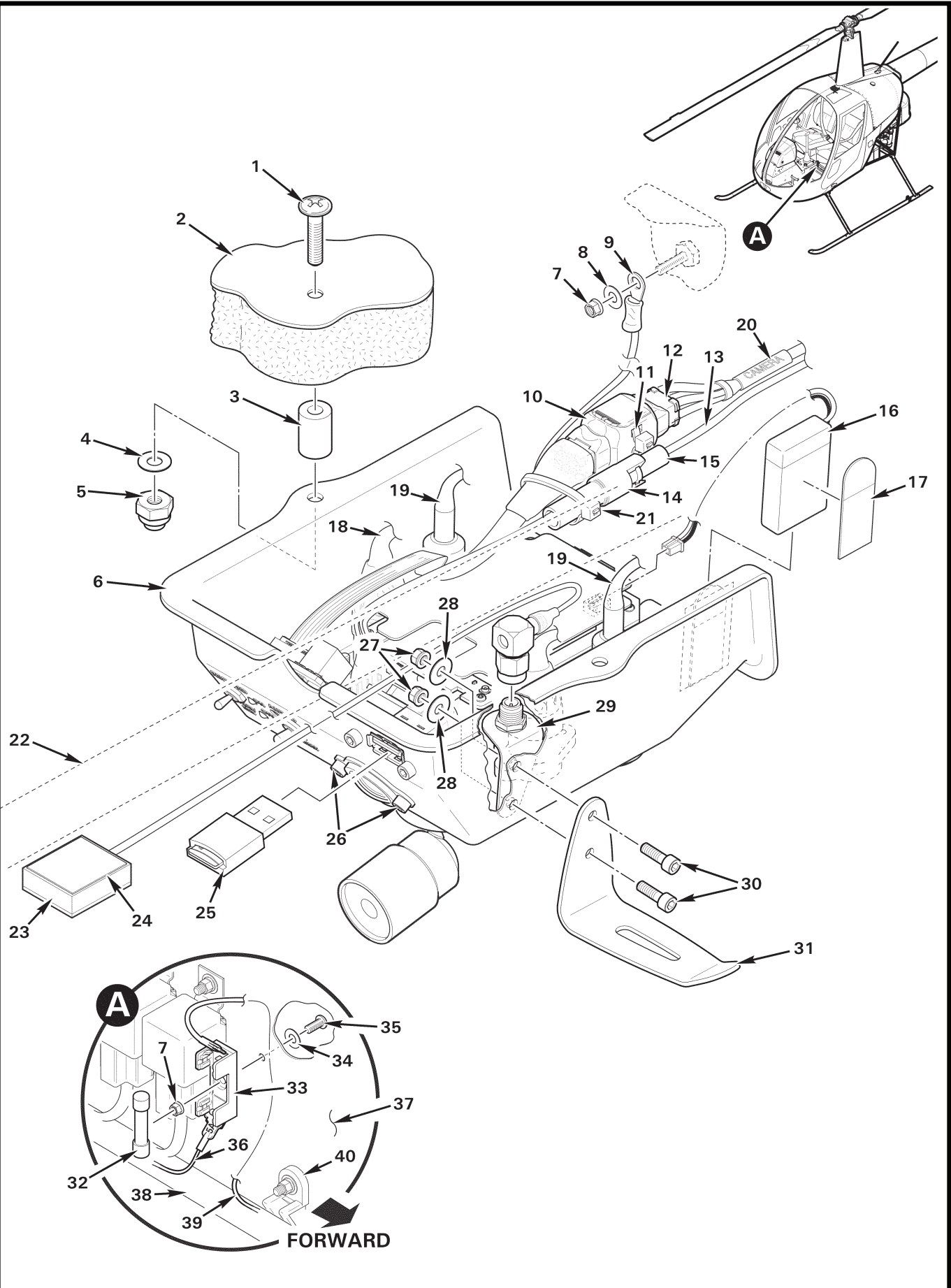


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COCKPIT CAMERA INSTALLATION		
96-37-1	AN525-832R12	Screw	X	2
2	A273-1	Roof (Ref)		
3	94639A838	Spacer (or A130-34 Spacer)	X	2
4	NAS1149FN816P	Washer	X	2
5	B340-4	Nut	X	2
6	F039-1	Enclosure Assembly – Cockpit Camera (does not include items 23 thru 25).	X	1
7	MS21042L08	Nut	X	2
8	NAS1149FN816P	Washer	X	1
9	B260-3	Terminal (A039-1858 wire, ground)	X	1
10	D269-5	Plug (includes [6] M39029/58-360 pins)	X	1
11	MS3367-4-9	Ty-Rap (locks connector)	X	1
12	D269-6	Receptacle (Ref, includes [6] M39029/57-354 sockets)		
13	-111	Wire (Ref)		
14	B263-10	Housing	X	1
	B263-1	Pin	X	1
15	B263-11	Housing	X	1
	B263-2	Socket	X	1
16	RV-BATT-LIPO500	Battery (install using item 17)	X	1
17	1024A38	Adhesive Strip	X	1
18	TJ-120	Jack (Ref; see Figure 97-29)		
19	D746	Connector Assembly – Bose (Ref; see Figure 97-29)		
20	B158-3	Heat Shrink (Ref; labeled “CAMERA”)		
21	MS3367-4-9	Ty-Rap	X	A/R
22	A238-15	Support (Ref)		
23	F714-2	Antenna Assembly (install metal side down using item 22) . .	X	1
24	A701-7	Tape	X	A/R
25	F714-4	Flash Drive Assembly	X	1
26	NAS1352-04-4	Screw	X	2
27	MS21042L04	Nut (Ref; see Figure 33-13)		
28	NAS1149FN416P	Washer (Ref; see Figure 33-13)		
29	F713-7	Angle	O	1
30	NAS1352-04-6	Screw (Ref; see Figure 33-13)		
31	A752-1	Angle (Ref; see Figure 33-13)		
32	D275-205	Fuse (5 amp)	X	1
NOTES				
Continues				

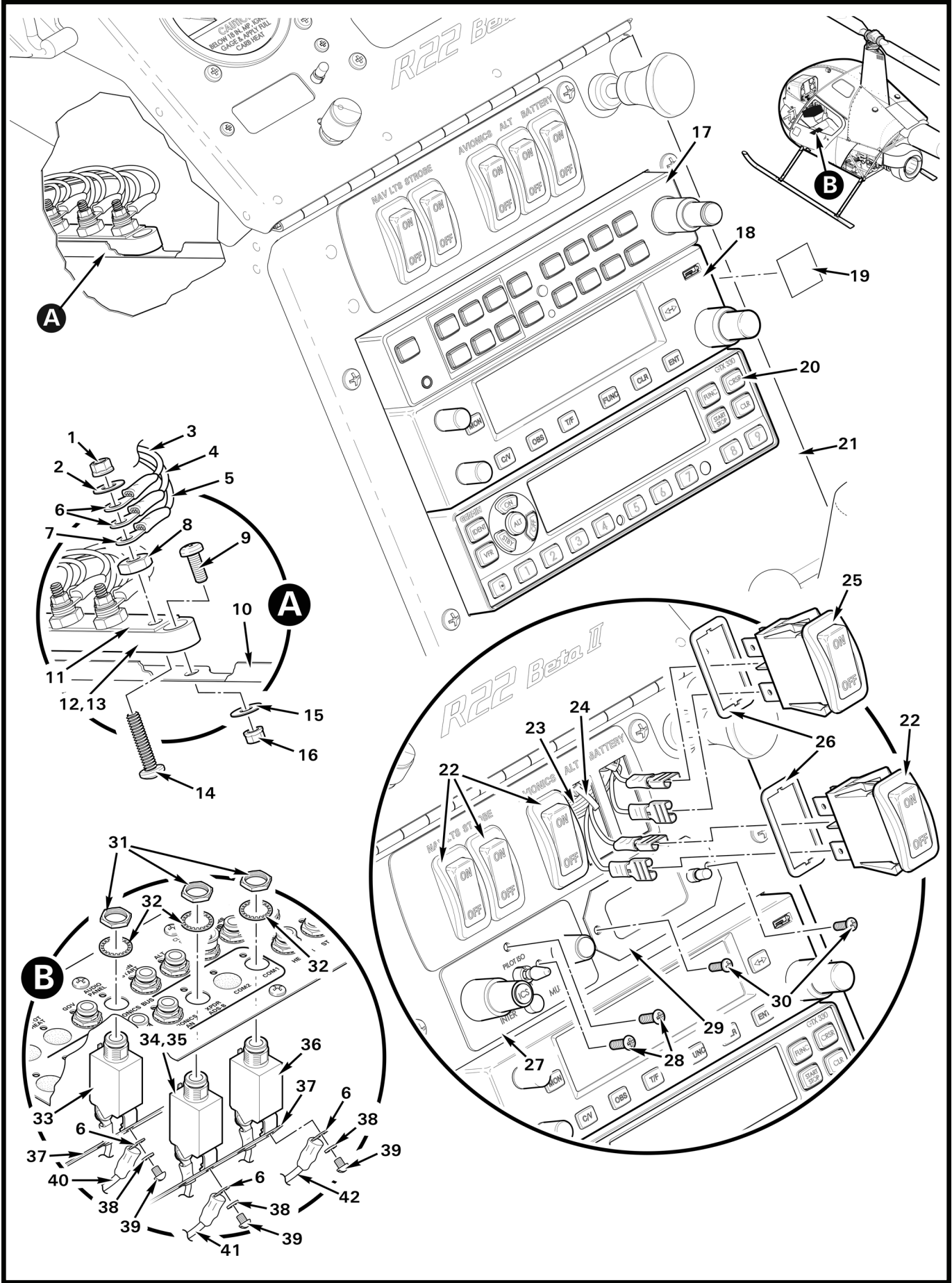
FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COCKPIT CAMERA INSTALLATION (Cont'd)		
96-37-33	D262-1	Fuse Block	X	1
34	NAS1149FN616P	Washer	X	1
35	MS35206-227	Screw	X	1
36	-3079	Wire (Ref, A859 main wire harness)		
37	A292-1	Keel Panel (Ref)		
38	A859	Main Wire Harness (Ref)		
	A059	Main Wire Harness (Ref; installed on earlier R22s)		
39	-3078	Wire (Ref, A859 main wire harness)		
40	D268-2	Support (Ref)		

41	KI-271-1	R22-series Cockpit Camera Installation Kit Instructions (Eligible for installation on R22-series helicopter S/N 4825 and subsequent, with factory-installed camera provisions.)	X	A/R
42	KI-275-1	R22-series Cockpit Camera Installation Kit Instructions (Eligible for installation on R22-series helicopter S/N 2969 thru 4824, and earlier helicopters equipped with ICS or audio panel installations. Helicopters equipped with "hot mic" toggle switch are not compatible.)	X	A/R
NOTES				

CHAPTER 97

AVIONICS

<i>Figure</i>	<i>Title</i>	<i>Page</i>
97-1	Avionics Options for R22	97.0
97-5	C831 GPS Installation – Garmin GTN 600 Series	97.4
97-9	Lower Console and Radio Installation	97.8
97-13	Transponder and Blind Encoder Installation	97.12
97-17	Solid-State Blind Encoder Installation	97.16
97-19	Flux Gate Installations	97.18
97-21	Intercom Control Installation	97.20
97-25	Garmin GTX 335 and 345 & Blind Encoder	97.24
97-29	Headset Jacks	97.28



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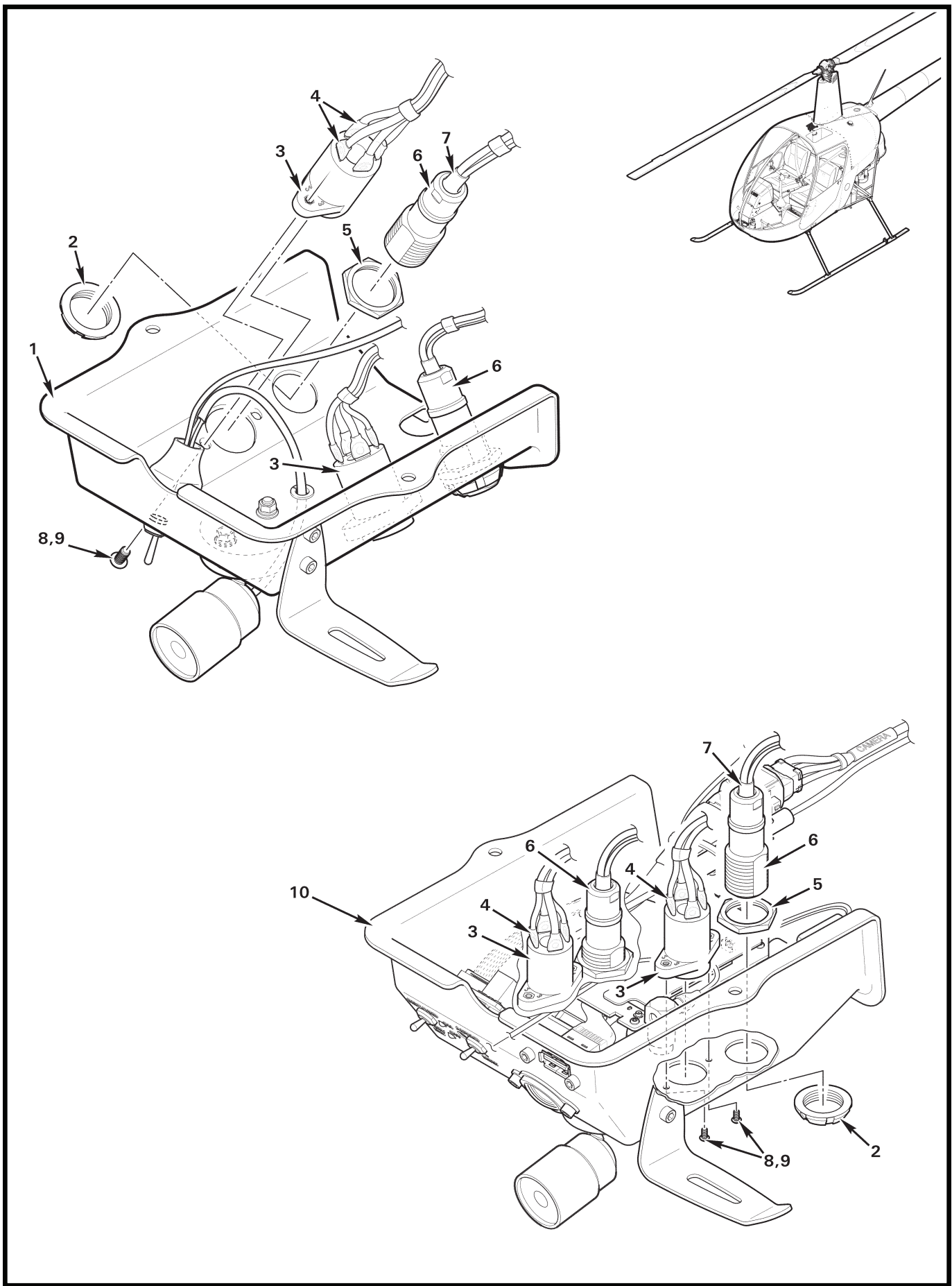


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HEADSET JACKS		
97-29-1	A039-14	Spotlight Assembly (Ref; see Figure 33-13)		
2	–	Dress Nut	O	2
3	TJ-120	Jack	X	2
4	B158-4	Heat Shrink	X	A/R
5	–	Hex Nut	O	2
6	D746-3	Connector Assembly – Bose (optional; incl items 2 and 5) . . .	X	A/R
	D746-4 *	Connector Assembly – Bose (standard; incl items 2 and 5) . . .	X	2
7	B158-3	Heat Shrink	X	A/R
8	A142-5	Screw	X	4
9	B270-20	Adhesive	X	A/R
10	F039-1	Enclosure Assembly – Cockpit Camera (ref; see Figure 96-37)		
NOTES * Standard equipment on R22 S/N 4825 and subsequent.				

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The R22 Illustrated Parts Catalog (IPC) list of effective pages and effective dates are given below. If a previously issued page is not listed below, it is no longer an effective page and must be discarded. The issue or revision date is in bold at the top of each revision log page.

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90.6	SEP 2014	95.19	FEB 2017	95.55	FEB 2017
90.7	SEP 2014	95.20	FEB 2017	95.56	FEB 2017
90.8	SEP 2014	95.21	FEB 2017	95.57	FEB 2017
90.9	SEP 2014	95.22	FEB 2017	95.58	FEB 2017
90.10	SEP 2014	95.23	FEB 2017	95.59	FEB 2017
90.11	MAY 2021	95.24	FEB 2017	95.60	FEB 2017
90.12	MAY 2021	95.25	FEB 2017	95.61	FEB 2017
		95.26	FEB 2017	95.62	FEB 2017
95.i	MAY 2021	95.27	FEB 2017	95.63	FEB 2017
95.0	MAY 2021	95.28	FEB 2017	95.64	FEB 2017
95.1	MAY 2021	95.29	FEB 2017	95.65	FEB 2017

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95.66	FEB 2017	96.29	FEB 2017	97.24	MAY 2021
		96.30	FEB 2017	97.25	MAY 2021
96.i	NOV 2024	96.31	FEB 2017	97.26	MAY 2021
96.0	NOV 2024	96.32	FEB 2017	97.27	NOV 2024
96.1	MAY 2021	96.33	FEB 2017	97.28	NOV 2024
96.2	MAY 2021	96.34	FEB 2017	97.29	NOV 2024
96.3	MAY 2021	96.35	NOV 2024	97.30	NOV 2024
96.4	MAY 2021	96.36	NOV 2024		
96.5	MAY 2021	96.37	NOV 2024	99.i	MAY 2021
96.6	MAY 2021	96.38	NOV 2024	99.ii	MAY 2021
96.7	MAY 2021			99.1	MAY 2021
96.8	MAY 2021	97.i	NOV 2024	99.2	MAY 2021
96.9	FEB 2017	97.0	NOV 2024	99.3	MAY 2021
96.10	FEB 2017	97.1	MAY 2021	99.4	MAY 2021
96.11	MAY 2021	97.2	MAY 2021	99.5	MAY 2021
96.12	MAY 2021	97.3	SEP 2014	99.6	MAY 2021
96.13	FEB 2017	97.4	SEP 2014	99.7	MAY 2021
96.14	FEB 2017	97.5	SEP 2014	99.8	MAY 2021
96.15	FEB 2017	97.6	SEP 2014	99.9	MAY 2021
96.16	FEB 2017	97.7	SEP 2014	99.10	MAY 2021
96.17	FEB 2017	97.8	SEP 2014	99.11	MAY 2021
96.18	FEB 2017	97.9	FEB 2017	99.12	MAY 2021
96.19	FEB 2017	97.10	FEB 2017		
96.20	FEB 2017	97.11	SEP 2014	100.i	MAY 2021
96.21	FEB 2017	97.12	SEP 2014	100.ii	MAY 2021
96.22	FEB 2017	97.13	SEP 2014	100.1	NOV 2024
96.23	MAY 2021	97.14	SEP 2014	100.2	NOV 2024
96.23A	MAY 2021	97.15	SEP 2014	100.3	NOV 2024
96.23B	MAY 2021	97.16	SEP 2014	100.4	NOV 2024
96.23C	MAY 2021	97.17	SEP 2014	100.5	NOV 2024
96.23D	MAY 2021	97.18	SEP 2014	100.6	NOV 2024
96.24	MAY 2021	97.19	MAY 2021		
96.25	FEB 2017	97.20	MAY 2021		
96.26	FEB 2017	97.21	MAY 2021		
96.27	FEB 2017	97.22	MAY 2021		
96.28	FEB 2017	97.23	MAY 2021		