



R66 ILLUSTRATED PARTS CATALOG RTR 660 VOLUME II

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PART INTERCHANGEABILITY

The following parts are interchangeable. Unless noted otherwise, whenever one part is referred to in this catalog, its substitute part is also permitted.

<u>PART:</u>	<u>INTERCHANGEABLE WITH:</u>
110-__ Telatemp	F110-__ Telatemp
22K1-048 Cap nut	B340-10 Cap nut
22K1-82 Cap nut	B340-4 Cap nut
354601 Fuse block	D262-1 Fuse block
354602 Fuse block	D262-2 Fuse block
4509 & Q4509 Lamp	B196-26 Lamp
4591 Lamp	B196-27 Lamp
511TS1-3 Switch	B300-4 Switch
94830A030 Nut	21FKF-518 Nut
AN_ and MS_ part	AS_ part or A880 part numbers
AN340 Nut	MS35649 Nut per NASM35649 except AN340B8 Nut
AN340B8 Nut	B301-8 Nut
AN345 Nut	MS35650 Nut per NASM35650
AN364 Nut	MS21083 Nut per NASM21083
AN507 Screw	MS24693 Screw per NASM24693
AN509 Screw	MS24694 Screw per NASM24694
AN515 Screw	MS35206 Screw per NASM35206
AN515C Screw	MS51957 Screw
AN515UB6R6 Screw	B567-25 Screw
AN515UB6R10 Screw	B567-28 Screw
AN515UB8R10 Screw	B567-43 Screw
AN515UB8R12 Screw	B567-44 Screw
AN515UB8R20 Screw	MS35214-47 Screw per NASM35214
AN525 & AN526 Screw	MS27039C Screw per NASM27039, or B526-6 or -8 Screw and B527-08 Washer per R66 MM § 6-71. Except where noted.
AN814 & MS24391 Plug	AS5169 Plug
AN815 & MS24392 Union	AS5174 Union
AN818-__ D Nut	AN818-__ W Nut
AN819 & MS20819 Sleeve	AS5176 Sleeve
AN822 & MS20822 Elbow	AS5195 Elbow
AN823 & MS20823 Elbow	AS5196 Elbow
AN825 & MS20825 Tee	AS5197 Tee
AN826 & MS20826 Tee	AS5198 Tee
AN894 & MS24398 Bushing	AS5173 Bushing
AN900 Gasket	MS35769 Gasket per AS35769
AN924 & MS24400 Nut	AS5178 Nut
AN931 Grommet	MS35489 Grommet
AN935 Lockwasher	B332-__ Lockwasher, dash number per MS35338
AN936 Lockwasher	MS35335 Lockwasher
AN960-4L Washer	NAS1149FN416P Washer
AN960-4 Washer	NAS1149FN432P Washer
AN960-6L Washer	NAS1149FN616P Washer
AN960-6 Washer	NAS1149FN632P Washer
AN960-8L Washer	NAS1149FN816P Washer
AN960-8 Washer	NAS1149FN832P Washer

Continues

PART INTERCHANGEABILITY (Cont'd)

<u>PART:</u>	<u>INTERCHANGEABLE WITH:</u>
AN960-10L Washer	NAS1149F0332P Washer
AN960-10 Washer	NAS1149F0363P Washer
AN960-416L Washer	NAS1149F0432P Washer
AN960-416 Washer	NAS1149F0463P Washer
AN960-516L Washer	NAS1149F0532P Washer
AN960-516 Washer	NAS1149F0563P Washer
AN960-616L Washer	NAS1149F0632P Washer
AN960-616 Washer	NAS1149F0663P Washer
AN960-816L Washer	NAS1149F0832P Washer
AN960-816 Washer	NAS1149F0863P Washer
AN960-1016L Washer	NAS1149F1032P Washer
AN960-1016 Washer	NAS1149F1063P Washer
AN960PD8L Washer	NAS1149DN816J Washer
AN960PD416L Washer	NAS1149D0416J Washer
AN960PD516L Washer	NAS1149D0516J Washer
AN960PD616L Washer	NAS1149D0616J Washer
AVDEL 016 - Rivet	B204- Rivet
B0500-022-S Washer	A478-2 Washer
B1000-035-S Washer	A478-3 Washer
B1000-043-S Washer	A478-4 Washer
B270-6 Sealant	A701-11 Tape
CCR244SS-3-02 Rivet	B204-5 Rivet
MS26574- Circuit breaker	B297- Circuit breaker, except B297-25 and B297-120
MS3320-20 Circuit breaker	B297-120 Circuit breaker
LW-18959-150-25 Clamp	B444-1 Clamp
LW-18959-163-25 Clamp	B444-2 Clamp
LW-18959-175-25 Clamp	B444-3 Clamp
MS20604ML4W1 Rivet	MS20604M4W1 Rivet per NASM20604
MS21042L3 thru L6 Nut	D210-3 thru -6 Nut*
MS21209 Insert	MS21209 L or NAS1130 Insert
MS21919 Clamp	AS21919 Clamp
MS24665 CAD plated steel cotter pin	MS24665 CRES cotter pin per NASM24665
MS27039C080 Screw	B526-6 or -8 Screw and B527-08 Washer per R66 MM § 6-71. Except where noted.
MS27151- Stamped Nut	B330- Stamped Nut
NAS1067 Nutplate	MS21086 Nutplate per NASM21086
NAS1068A Nutplate	MS21075L E Nutplate per NASM21075
NAS1291-04 thru -08 Nut	MS21042 Nut per NASM21042
NAS1291-3 thru -10 Nut	D210-3 thru -10 Nut*
NAS1303 thru NAS1320 Bolt, except 1307 Bolt	NAS6603 thru NAS6620** Bolt, except 6607 Bolt
NAS1919B0 SO Rivet	NAS9301B-0 Rivet
NAS1921B0 SO Rivet	NAS9302B-0 Rivet
NAS428- Bolt	NAS428-A Bolt
NAS487 Instrument nut	MS33737 Instrument nut per NASM33737
NAS6605-31 Bolt	B660-2 Bolt

* One-way interchangeability, only D210 nut shall be used for listed sizes.

** The following bolts must be NAS1300 series only: NAS1304-17, NAS1304-35, and NAS1305-35.

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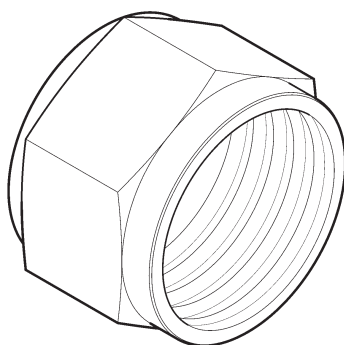
PART INTERCHANGEABILITY (Cont'd)

<u>PART:</u>	<u>INTERCHANGEABLE WITH:</u>
NAS679A__ Nut	NAS1291-__ Nut
NAS679C__ M Nut	NAS1291C__ M Nut
NAS696 Nutplate	MS21071 Nutplate per NASM21071
NAS697 Nutplate	MS21069 & MS21070 Nutplate per NASM21069 & NASM21070
NAS698 Nutplate	MS21073 Nutplate per NASM21073

A880 FLARED TUBE COMPONENTS

A. Nuts – Flare

Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-102	AN818-2D, AN818-2W, AS5175W02	AL	1/8-inch
-103	AN818-3D, AN818-3W, AS5175W03	AL	3/16-inch
-104	AN818-4D, AN818-4W, AS5175W04	AL	1/4-inch
-105	AN818-5D, AN818-5W, AS5175W05	AL	5/16-inch
-106	AN818-6D, AN818-6W, AS5175W06	AL	3/8-inch
-108	AN818-8D, AN818-8W, AS5175W08	AL	1/2-inch
-110	AN818-10D, AN818-10W, AS5175W10	AL	5/8-inch
-202	AN818-2J, AS5175J02	CRES	1/8-inch
-203	AN818-3J, AS5175J03	CRES	3/16-inch
-204	AN818-4J, AS5175J04	CRES	1/4-inch
-205	AN818-5J, AS5175J05	CRES	5/16-inch
-206	AN818-6J, AS5175J06	CRES	3/8-inch
-208	AN818-8J, AS5175J08	CRES	1/2-inch
-210	AN818-10J, AS5175J10	CRES	5/8-inch



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CHAPTER 6

DIMENSIONS AND DESCRIPTIONS

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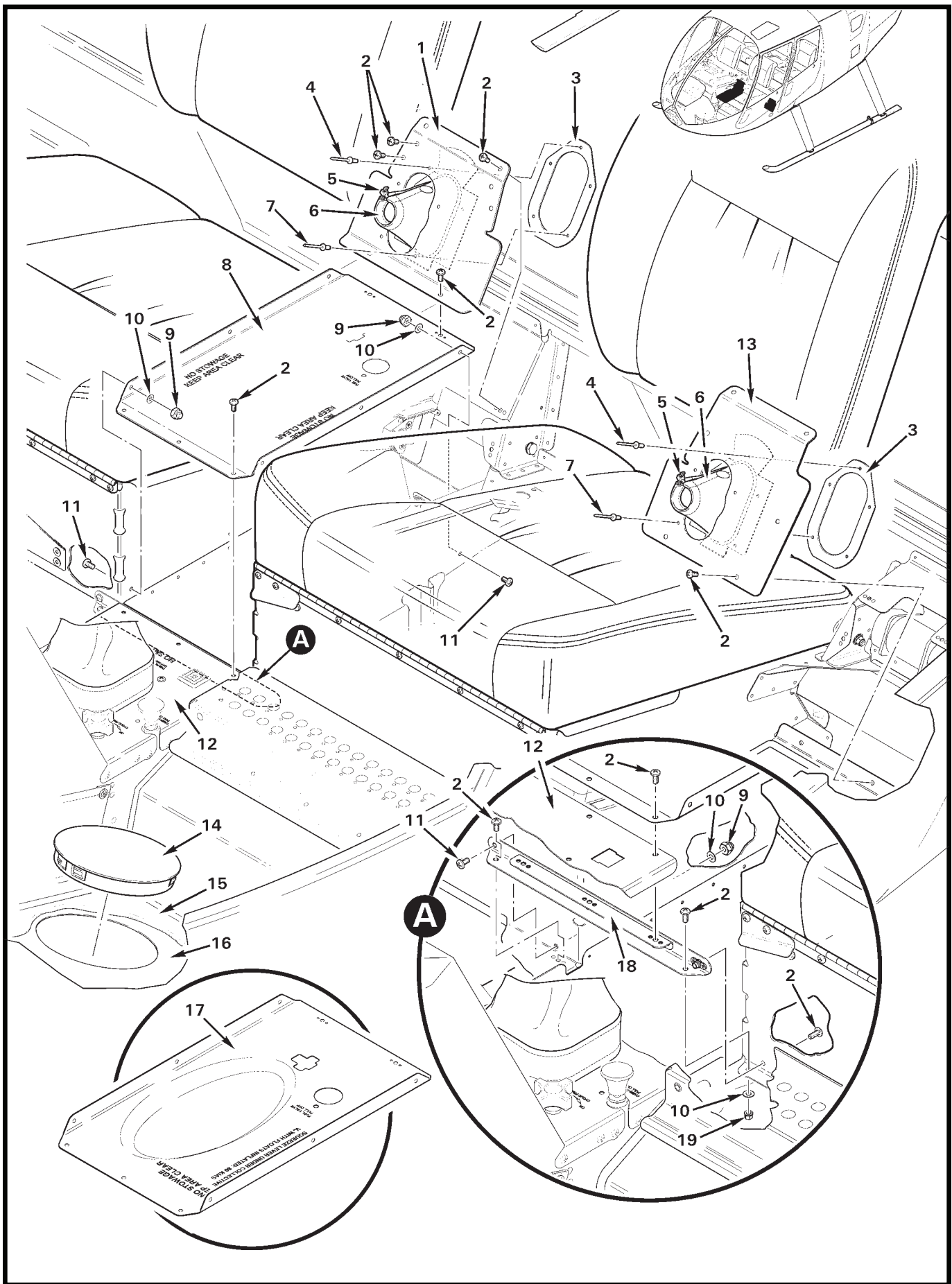


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		NAV ANTENNA COMBINER / DIPLEXER INSTALLATION		
6-39-1	C023-23	Tailcone Assembly (or C023-34, or -35; Ref)		
2	MS27039C0805	Screw	X	2
3	C850-1844	Cable (Ref; VOR and Localizer installed)		
4	C850-1847	Cable (Ref; VOR and Localizer, with diplexer [item 11] installed)		
5	225395-6	Plug (BNC)	X	A/R
6	NAS1149FN816P	Washer	X	A/R
7	MS21042L08	Nut	X	A/R
8	C20556-1	Combiner	X	1
9	C023-1846	Cable (RH, Ref)		
10	C023-1845	Cable (LH, Ref)		
11	CI-507	Diplexer (single VOR/single Glideslope installed)	X	1
12	A130-33	Spacer	X	2
13	CI-505	Diplexer (dual VOR/single Glideslope installed)	X	1
14	CI-1125	Diplexer (dual VOR/dual Glideslope installed)	X	1
15	—	Cable (to avionics, Ref)		
16	AN525-832R12	Screw	X	2
17	F859	Harness Assembly – Cabin (Ref)		
18	D20543	NAV Antenna (Ref, see Figure 6-37)		
NOTES				

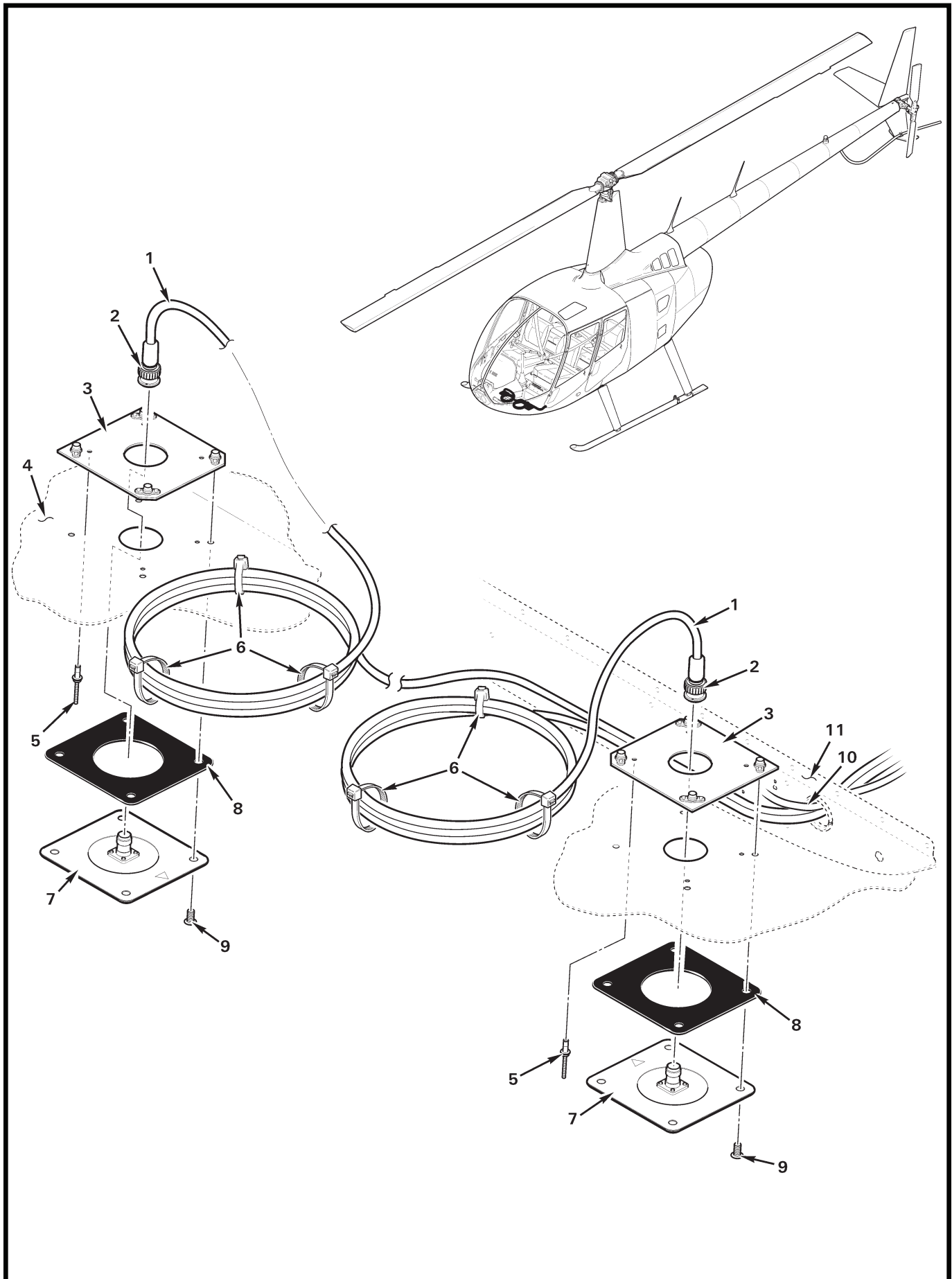


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		RADAR ALTIMETER ANTENNA INSTALLATION (FREEFLIGHT RA4000/4500)*		
6-41-1	—	Cable (to Radar Altimeter)	O	2
2	0129-0017-00	Connector (TNC)	O	2
3	B420-1	Plate Assembly	X	2
4	F272	Chin (ref)		
5	NAS9302B-4-02	Rivet (or NAS1921B04S02)	X	8
6	MS3367-5-9	Ty-Rap	X	A/R
7	9-1203-115-00**	Antenna (incl items 8 and 9)	O	2
8	—	Gasket	O	2
9	—	Screw	O	8
10	—	Cable (ref; wire -2432 to indicator if installed, -2720 to ARINC display if installed, -2727 to C/B, and -2728 to ground)		
11	G230	Bulkhead (ref)		
NOTES * See Figures 97-15, 97-17, and 97-19 for additional component installations. ** FreeFlight Systems part no.				

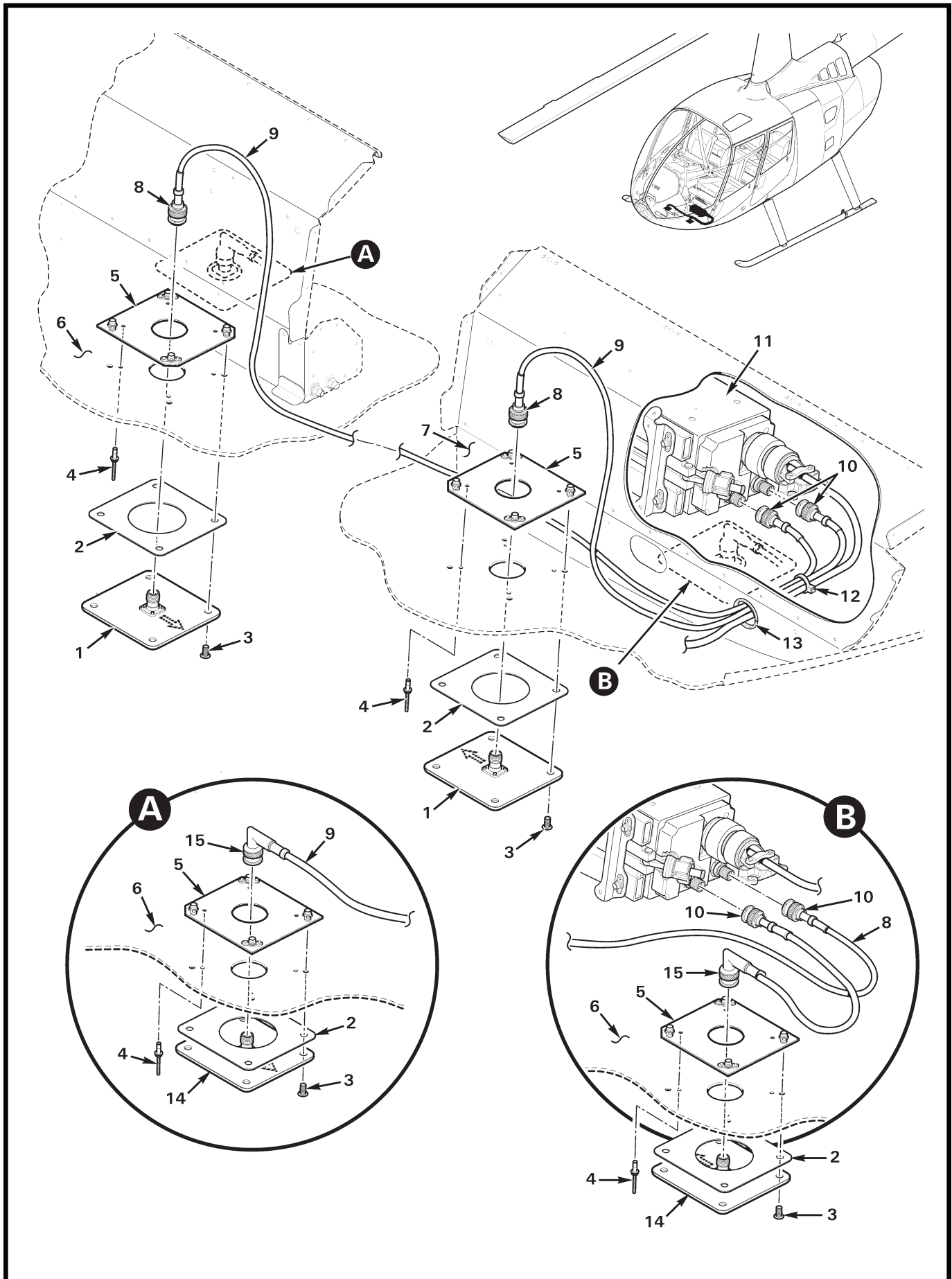
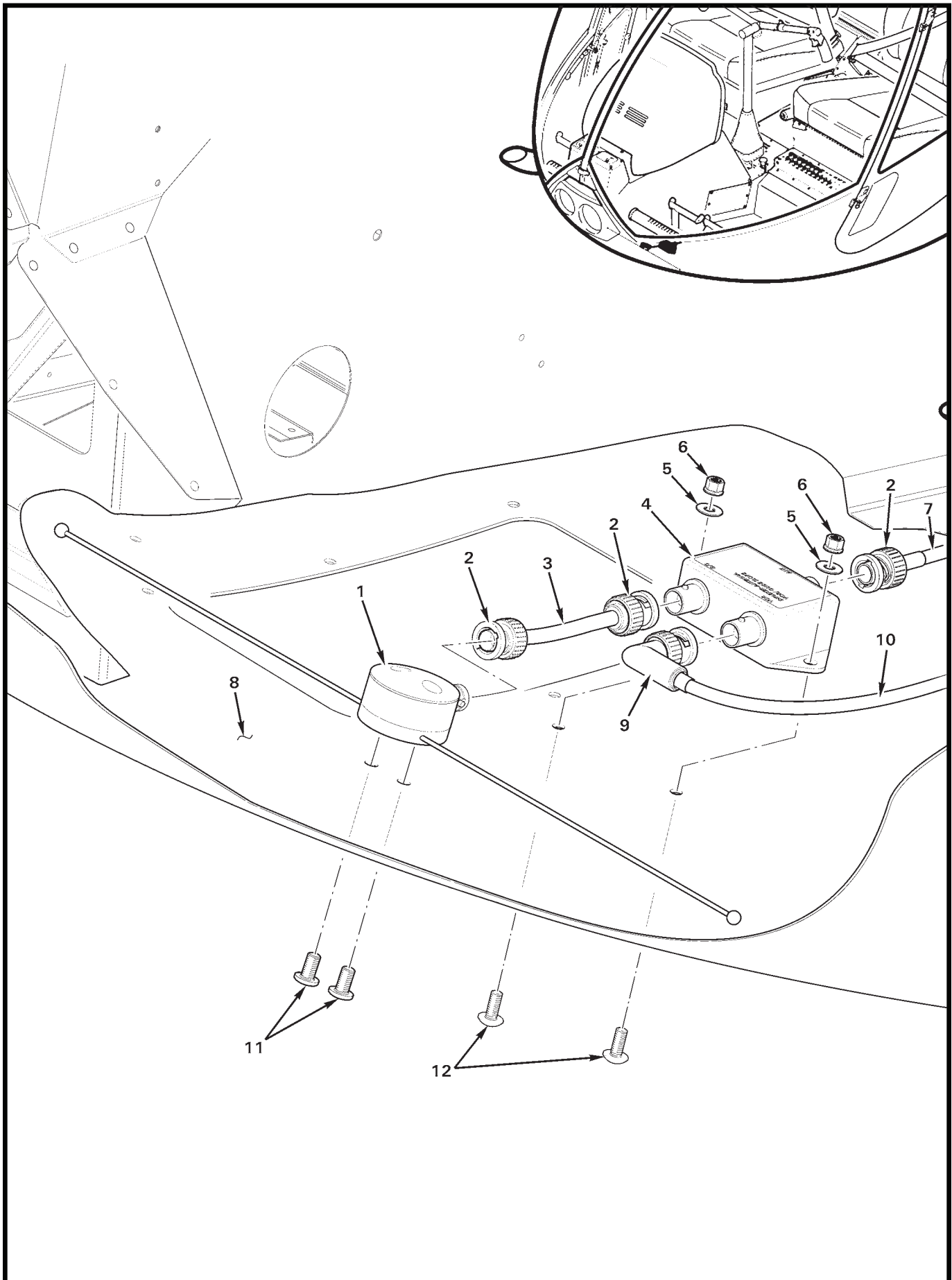


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
6-41B-1		RADAR ALTIMETER ANTENNA INSTALLATION (GARMIN GRA 55)		
	S67-2002*	Antenna (standard location; left & right, incl items 2 and 3) . .	X	2
	2 S67-200222*	Conductive Gasket	O	2
	3 MS24694-S51	Screw	X	8
	4 NAS9302B-4-02	Rivet	X	8
	5 B420-1	Plate Assembly	X	2
	6 F272	Chin (ref)		
	7 G230	Bulkhead (ref)		
	8 D261-121	Plug (standard antenna location only)	X	2
	9 B274-518	Cable (Antenna Coax)	X	A/R
	10 D261-121	Plug	X	2
	11 GRA 55**	(010-00946-05** ; ref, see Figure 97-19B)		
	12 MS3367-4-9	Ty-Rap	X	A/R
	13 NAS557-16A	Grommet	X	1
	14 S67-2002*	Antenna (alternate location; left & right, incl items 2 and 3)	X	2
	15 D261-122	Plug (alternate antenna location only)	X	2
NOTES * Sensor Systems part no. ** Garmin part no.				



CHAPTER 22

AUTOPILOT

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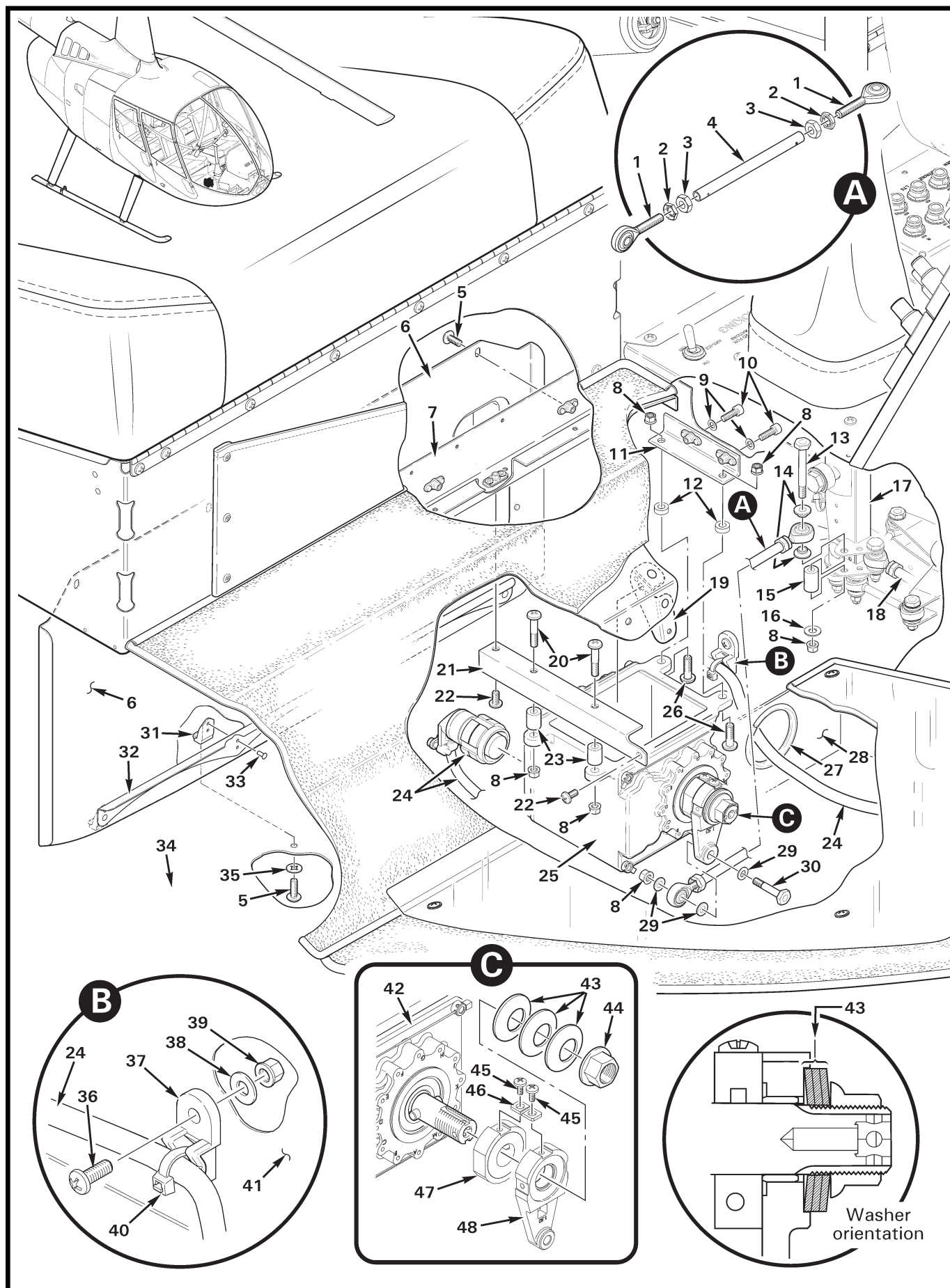


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN FCS – SERVO ASSEMBLY INSTALLATION (ROLL)		
22-1-1	A127-3	Rod End	X	2
2	B330-7	Stamped Nut	X	2
3	AN315-3R	Nut	X	2
4	A336-7	Tube	X	1
5	B526-6	Screw	X	8
6	G702-14	Cover Assembly (incl items 31 thru 33)	X	1
7	F362-5	Beam Assembly (ref)		
8	D210-3	Nut	X	6
9	NAS620-8L	Washer	X	2
10	NAS1352-08-8P	Screw	X	2
11	G353-3	Angle Assembly	X	1
12	A130-20	Spacer	X	2
13	NAS6603-20	Bolt	X	1
14	A341-1	Spacer	X	2
15	C130-51	Spacer	X	1
16	NAS1149F0332P	Washer	X	1
17	C069	Cyclic Control Assembly (ref)		
18	A336-8	Tube (ref; see Figure 22-5)		
19	G353-9	Bracket (ref)		
20	MS27039C1-15	Screw	X	2
21	G353-2	Angle	X	1
22	MS27039C0805	Screw	X	2
23	A130-35	Spacer	X	2
24	G323-1	Harness Assembly (2-axis)	O	1
	G323-2	Harness Assembly (3-axis)	O	1
25	G357-1	Servo Assembly (Roll; includes items 42 thru 48.)	X	1
26	MS27039C1-10	Screw	X	2
27	NAS557-28A	Grommet	X	1
28	G230-2	Bulkhead (ref)		
29	NAS620-10L	Washer	X	3
30	NAS6603-11	Bolt	X	1
31	MF6000-08	Nutplate	X	4
32	G702-12	Stiffener	X	1
33	MS20470AD3	Rivet	X	8
34	F272-1	Chin (ref)		
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN FCS – SERVO ASSEMBLY INSTALLATION (ROLL; Cont'd)		
22-1-35	B527-08	Washer	X	4
36	MS27039C0807	Screw	X	1
37	D268-4	Support	X	1
38	NAS1149FN816P	Washer	X	1
39	MS21042L08	Nut	X	1
40	MS3367-5-9	Ty-Rap	X	1
41	F293-2	Panel – Keel (forward, RH; ref)		
42	011-03367-13*	Servo	O	1
43	234-10010-07*	Washer (belleville; convex side towards nut)	O	3
44	D210-8**	Nut	X	1
45	211-A0020-26*	Screw	O	2
46	117-01067-05*	Shear Fuse	O	1
47	117-01065-00*	Output Hub	O	1
48	117-01080-12*	Output Arm	O	1
NOTES * Garmin part number. ** Install per R66 MM § 22-12-4.				

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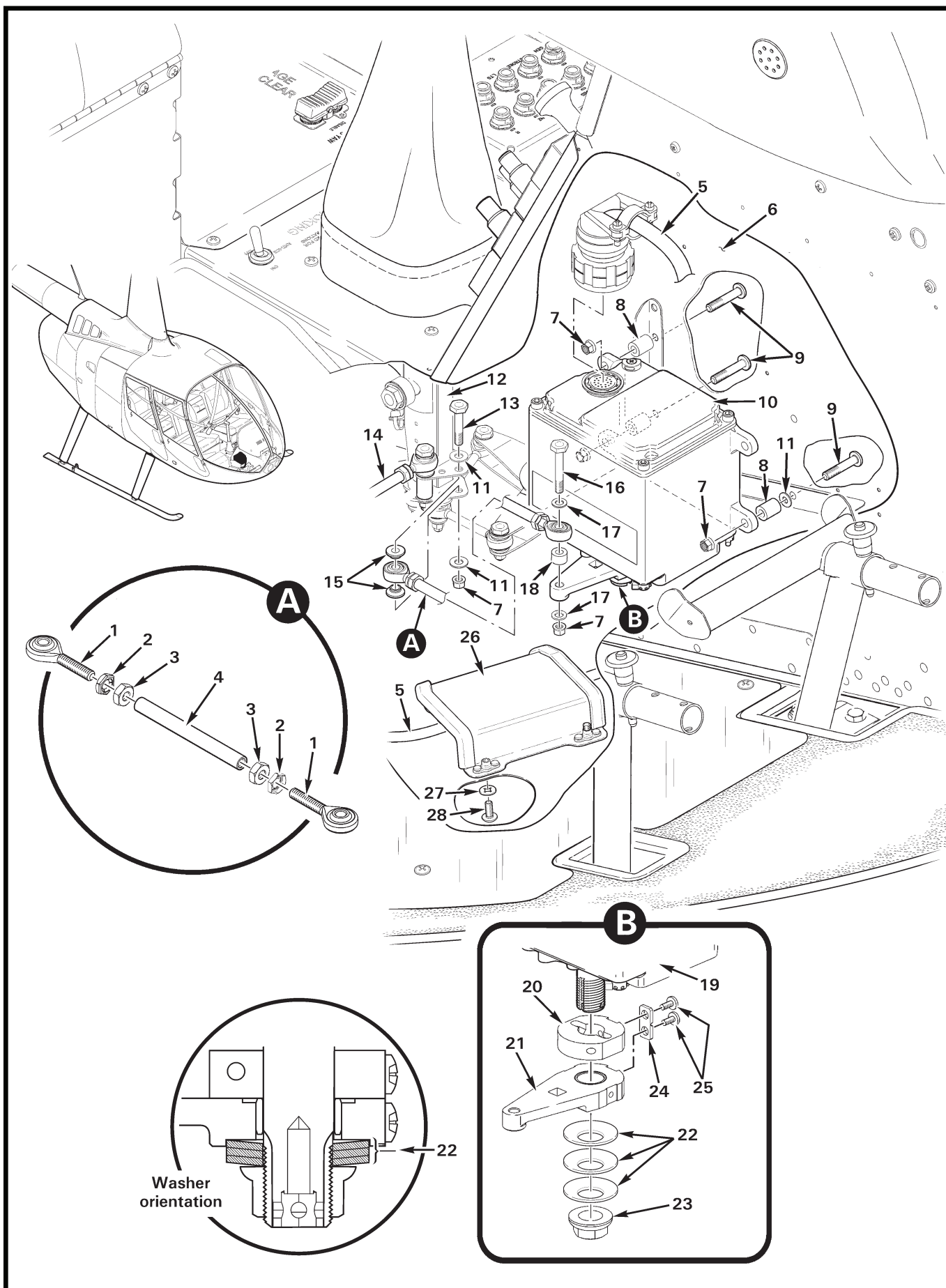


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN FCS – SERVO ASSEMBLY INSTALLATION (PITCH)		
22-5-1	A127-3	Rod End	X	2
2	B330-7	Stamped Nut	X	2
3	AN315-3R	Nut	X	2
4	A336-8	Tube	X	1
5	G323-1	Harness Assembly (2-axis)	O	1
	G323-2	Harness Assembly (3-axis)	O	1
6	F033-1	Console Assembly – Lower (ref)		
7	D210-3	Nut	X	5
8	A130-35	Spacer	X	3
9	MS27039C1-16	Screw	X	3
10	G357-2	Servo Assembly (Pitch; includes items 19 thru 25.)	X	1
11	NAS1149F0332P	Washer	X	3
12	C069	Cyclic Control Assembly (ref)		
13	NAS6603-11	Bolt	X	1
14	A336-7	Tube (ref; see Figure 22-1.)		
15	A341-1	Spacer	X	2
16	NAS6603-15	Bolt	X	1
17	NAS620-10L	Washer	X	2
18	C130-64	Spacer	X	1
19	011-03367-13*	Servo	O	1
20	117-01065-00*	Output Hub	O	1
21	117-01080-14*	Output Arm	O	1
22	234-10010-07*	Washer (belleville; convex side towards nut)	O	3
23	D210-8**	Nut	X	1
24	117-01067-05*	Shear Fuse	O	1
25	211-A0020-26	Screw.	X	2
26	D555-4	Shield Assembly	X	1
27	B527-08	Washer.	X	2
28	B526-6	Screw	X	2
NOTES * Garmin part number. ** Install per R66 MM § 22-12-4.				

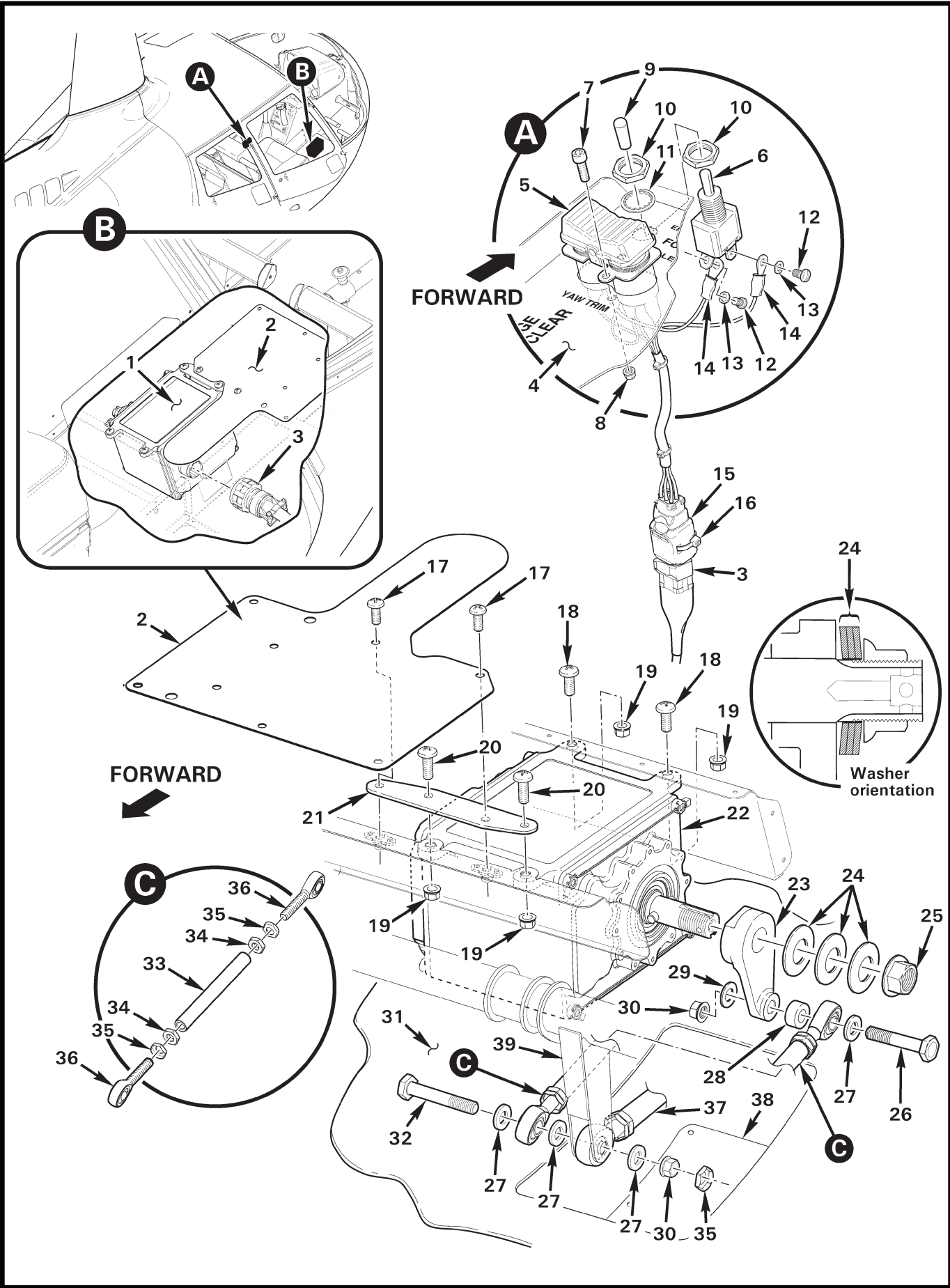


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN FCS – SERVO ASSEMBLY INSTALLATION (YAW)		
22-7-1	G357-3	Servo Assembly (Yaw; includes items 22 thru 25.)	X	1
2	A412-4	Cover (ref; see Figure 67-31)		
3	G323-2	Harness Assembly (3-axis)	O	1
4	F445-5	Cover Assembly (FCS)	X	1
	F445-7	Cover Assembly (FCS with pop-out floats equipped)	X	1
5	B049-13	Switch Assembly (install with green heat shrink inboard; includes items 14 and 15)	X	1
6	B300-4	Switch (incl items 10 thru 13)	X	1
7	NAS1352-04-6	Screw	X	2
8	MS21042L04	Nut	X	2
9	AT406B	Cap	X	1
10	—	Nut	O	2
11	—	Lock washer	O	1
12	—	Screw	O	2
13	—	Washer	O	2
14	B260-2	Terminal	X	2
15	D269-5	Plug (includes [6] M39029/58-360 pins)	X	1
16	MS3367-4-9	Ty-Rap (locks connector)	X	1
17	MS27039C0806	Screw	X	2
18	MS27039C1-07	Screw	X	2
19	D210-3	Nut	X	4
20	MS27039C1-08	Screw	X	2
21	G353-4	Plate	X	1
22	011-03367-00*	Servo	O	1
23	117-01229-02*	Output Arm	O	1
24	234-10010-07*	Washer	O	3
25	D210-8**	Nut	X	1
26	NAS6604-15	Bolt	X	1
27	NAS1149F0463P	Washer	X	4
28	C130-15	Spacer	X	1
29	NAS1149F0432P	Washer	X	1
30	D210-4	Nut	X	2
31	F272-1	Chin (ref)		
32	NAS6604-16	Bolt	X	1
33	G353-5	Tube	X	1
NOTES * Garmin part number. ** Install per R66 MM § 22-12-4.				

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN FCS – SERVO ASSEMBLY INSTALLATION (YAW; Cont'd)		
22-7-34	AN316-4R	Nut	X	2
35	B330-13	Stamped Nut	X	3
36	A127-4	Rod End	X	2
37	C343-11	Tube Assembly (ref; see Figure 67-29)		
38	C795-1	Cover (ref; see Figure 6-9)		
39	D755-4	Pedal Assembly (right foot, ref; see Figure 67-29)		
NOTES				

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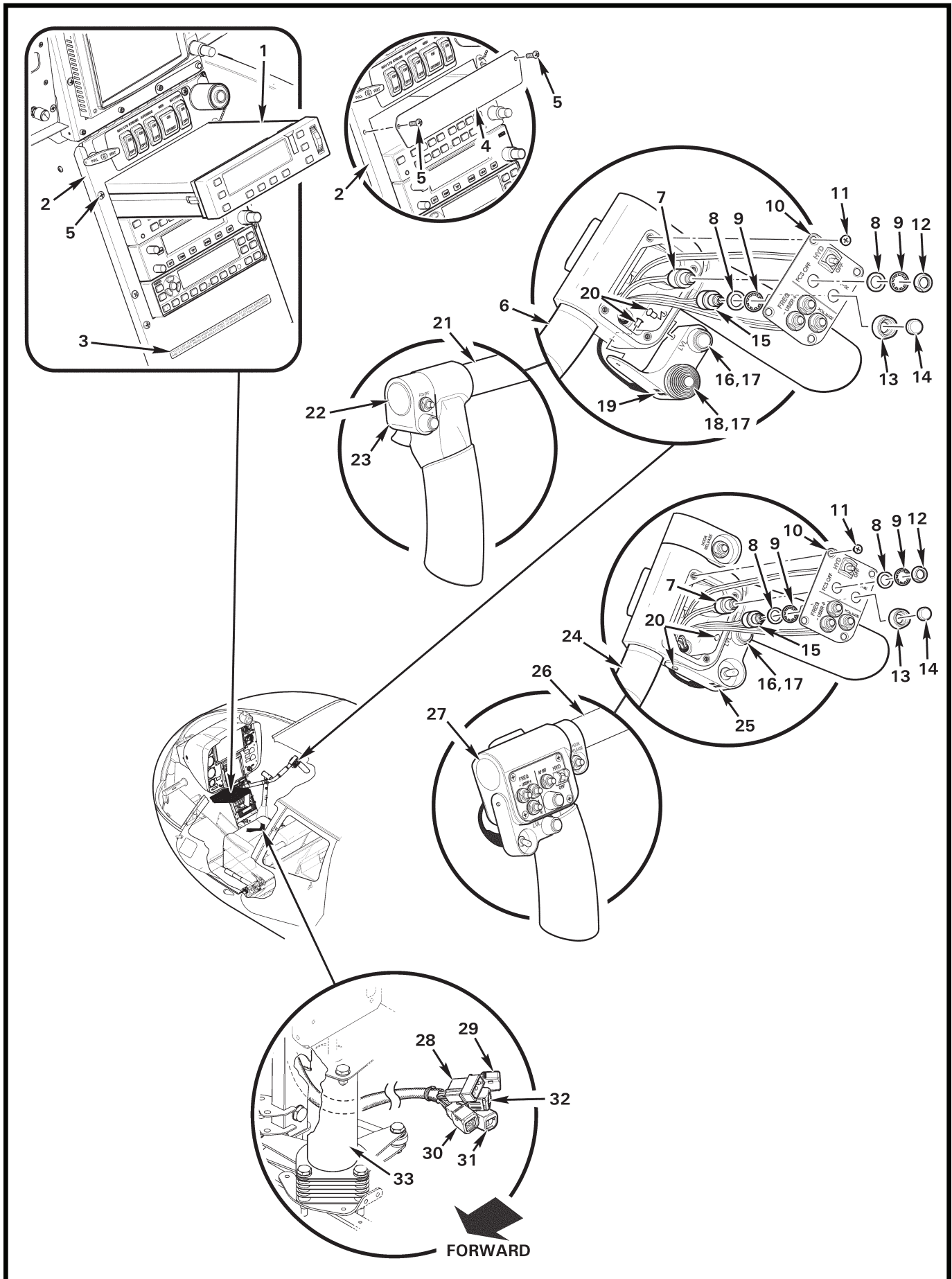


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN FCS – CONTROLLER AND CYCLIC CONTROL SYSTEM		
22-11-1	GMC 605H*	Controller	X	1
2	F640	Face Assembly (ref)		
3	G682-49	Decal – "CYCLIC LIMIT CUEING..."	X	1
4	F640-102	Cover (FCS – Provision equipment)	O	1
5	MS27039C0806	Screw	X	2
6	C058-22	Grip Assembly – Cyclic (FCS)	O	1
7	B227-13	Switch Assembly (incl items 8, 9, and 12)	X	2
8	94773A770	Washer	X	A/R
9	B227-3	Lockwasher	X	A/R
10	C214-28	Plate	X	A/R
11	MS24693-S1	Screw	X	A/R
12	B227-4	Dress Nut	X	2
13	D443-8	Dress Nut	O	2
14	401204-9	Cap	O	2
15	B227-10	Switch Assembly (incl items 8, 9, 13, and 14)	X	2
16	B227-12	Switch (install using item 17)	X	1
17	B270-9	Adhesive	X	A/R
18	T4-TMC3332	Switch (install using item 17)	X	1
19	G136-9	Housing	X	1
20	MS20470AD3	Rivet	X	A/R
21	C058-23	Grip Assembly – Cyclic (Copilot, FCS)	O	1
22	B209-8	Plug	X	1
23	G136-10	Housing	X	1
24	C058-24	Grip Assembly – Cyclic (Cargo Hook w/ FCS)	O	1
25	G136-11	Housing	X	2
26	C058-25	Grip Assembly – Cyclic (Copilot, Cargo Hook w/ FCS)	O	1
27	2703	Plug	X	1
28	B263-14	Housing (ref; see Figure 67-1)		
29	D269-11	Plug (ref; see Figure 67-1)		
30	D269-9	Plug (ref; see Figure 67-1)		
31	D269-5	Plug (includes [6] M39023/58-360 pins)	X	1
32	D269-8	Receptacle (includes [6] M39023/58-354 sockets)	X	1
33	C048-1	Cyclic Friction Assembly (ref; see Figure 67-19)		
NOTES * Garmin part number.				

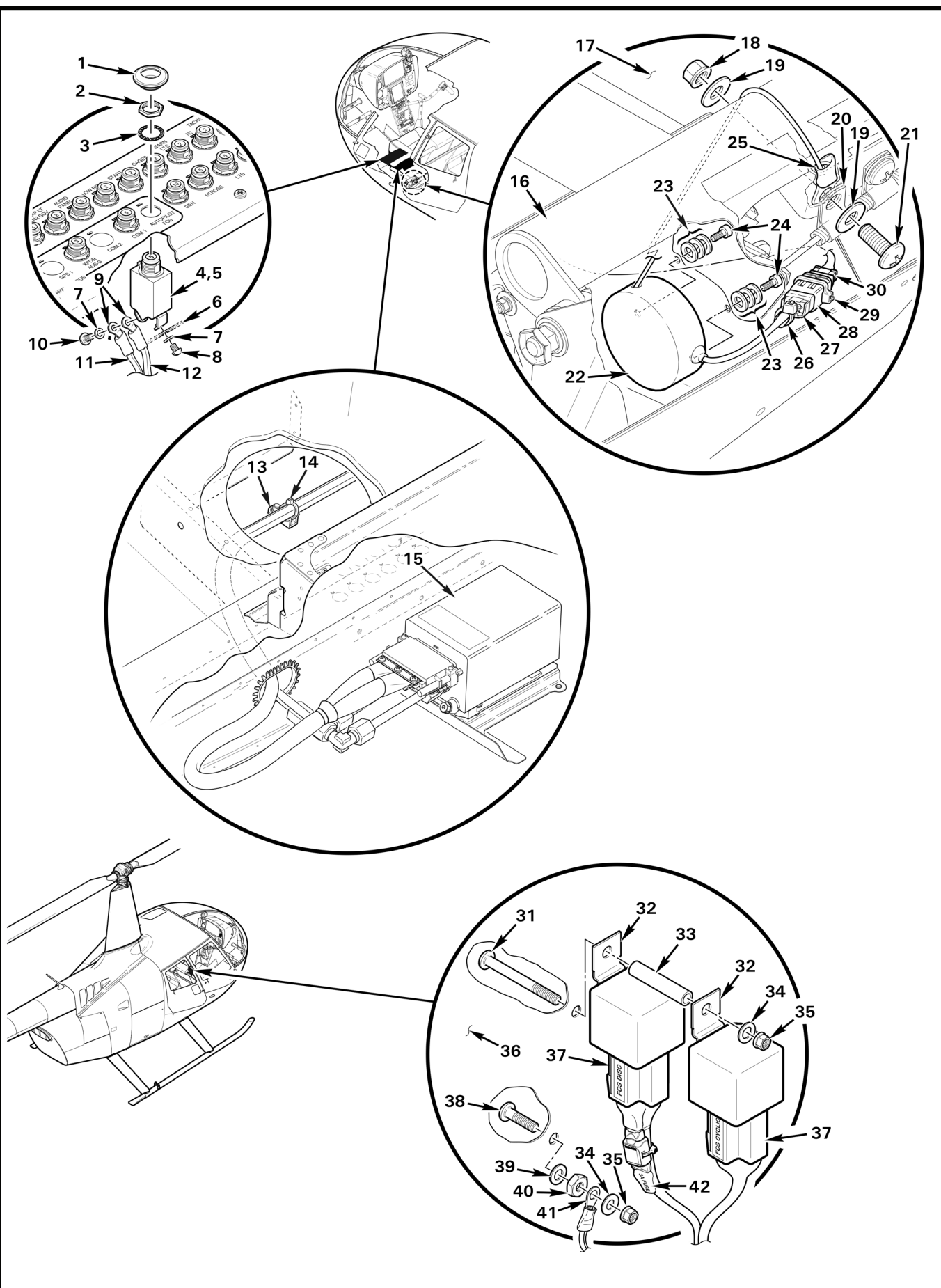


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN FCS – COMPONENTS INSTALLATION		
22-13-1	D271-1	Cap	X	1
2	—	Nut	O	1
3	—	Lockwasher	O	1
4	MS26574-5	Circuit Breaker (5-amp; do not substitute)	O	1
5	B297-5 *	Circuit Breaker (incl items 2 thru 4, 7, and 8.)	X	1
6	A448	Bus Bar (ref)		
7	—	Washer	O	2
8	—	Screw	O	1
9	B260-2	Terminal (ref)		
10	MS35206-226	Screw	X	1
11	G323-2931	Wires (ref)		
	G323-2940	Wires (ref)		
12	G323-2945	Wires (ref)		
	G323-2949	Wires (ref)		
13	D268-4	Support	X	1
14	MS3367-4-9	Ty-Rap	X	1
15	GSU 75H **	ADAHRS (ref; see Figure 97-11B)		
16	F758-1	Stick Assembly – Collective (ref; see Figure 67-21.)		
17	F297-1	LH forward seat (ref)		
18	D210-3	Nut	X	1
19	NAS1149F0332P	Washer	X	2
20	AN742-3	Clamp (ref; see Figure 67-21)		
21	MS27039C1-07	Screw	X	1
22	G356-1	Transducer Assembly (incl items 24 thru 28; discard [2] washers supplied with assembly and replace using item 23)	X	1
23	NAS1149FN232P	Washer	X	6
24	—	Screw	O	2
25	B260-4	Terminal	X	1
26	MS3367-4-9	Ty-Rap	X	1
27	D269-21	Backshell	X	1
28	D269-1	Plug (includes [3] M39029/58-360 pins)	X	1
29	MS3367-4-9	Ty-Rap (locks connector)	X	1
30	D269-2	Receptacle (includes [3] M39029/57-354 sockets; ref)		
31	MS27039C0825	Screw	X	1
NOTES * Revision G or subsequent; circuit breaker is made from MS26574-5 circuit breaker. ** Garmin part number.				

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN – COMPONENTS INSTALLATION (Cont'd)		
22-13-32	D260-4	Relay	X	2
33	C130-19	Spacer	X	1
34	NAS1149FN816P	Washer	X	2
35	MS21042L08	Nut	X	2
36	F293-1	Panel – Keel (forward, LH; ref)		
37	D260-6	Connector	X	2
	B262-6	Receptacle	X	A/R
38	B567-43	Screw	X	1
39	NAS1149DN832H	Washer	X	1
40	B301-8	Nut	X	1
41	B260-3	Terminal	X	1
	G323-2934	Wire (ref)		
	G323-2936	Wire (ref)		
42	B304-25	Fuse Assembly (3 amp)	X	1
NOTES				

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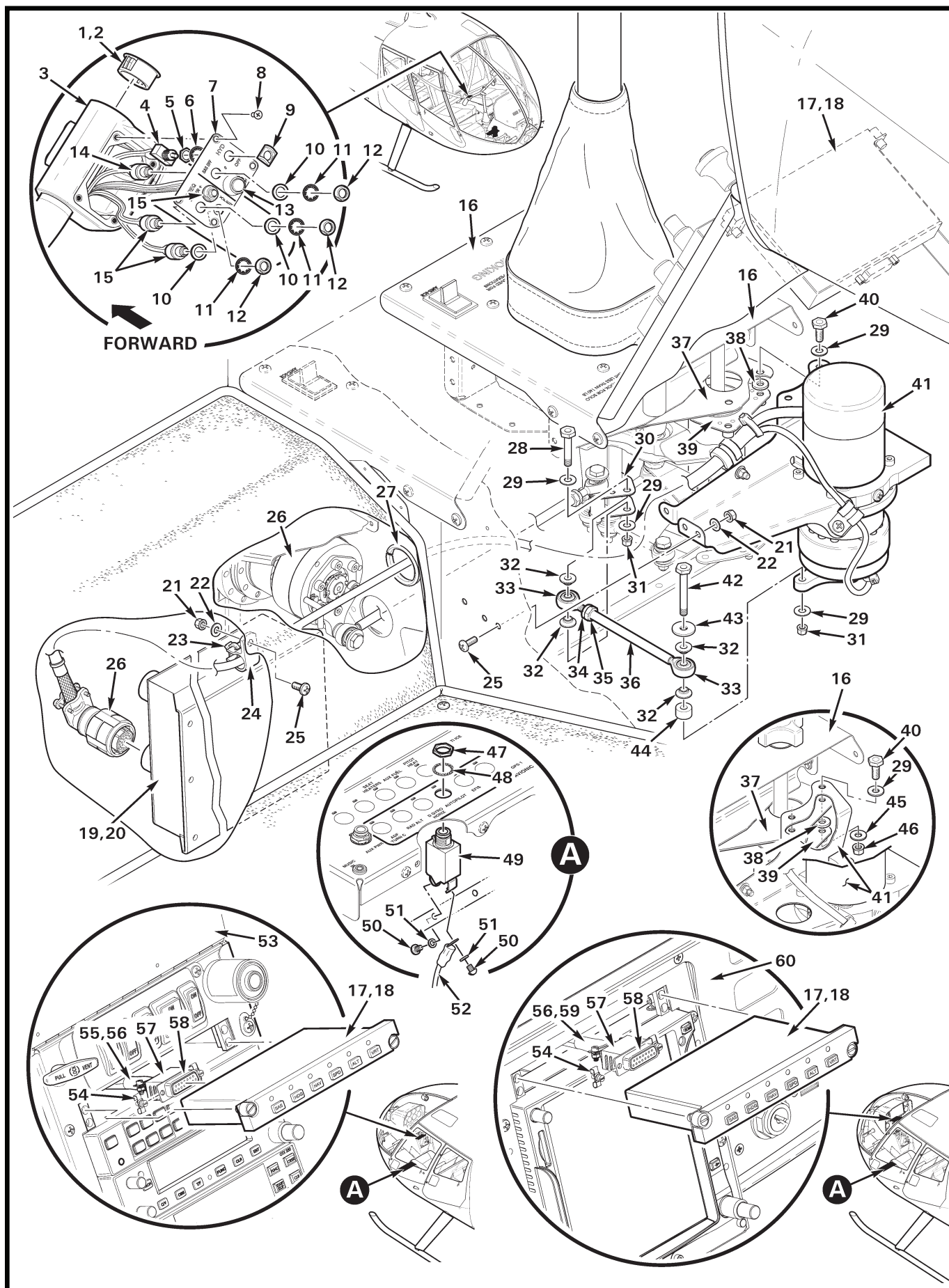


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HELISAS – (PITCH) SERVO ASSEMBLY AND COMPONENTS INSTALLATION		
22-17-1	2703	Hole Plug (install using item 2)	X	1
2	B270-15	Adhesive	X	A/R
3	C058-16	Grip Assembly (incl items 1, 2, 4, 7 thru 9, and 13 thru 15) . .	X	1
4	B300-3	Switch Assembly – “HYD OFF” (incl items 5 and 6)	X	1
5	—	Nut	O	1
6	—	Lockwasher	O	1
7	C214-27	Plate	X	1
8	MS24693-S1	Screw	X	4
9	D443-7	Guard	X	1
10	94773A770	Washer	X	5
11	B227-3	Lockwasher	X	5
12	B227-4	Dress Nut	X	4
13	B227-8	Switch Assembly – “TRIM” (includes items 10 [1], 11 [1] P/N 702501201 dress nut, and P/N 801801000 cap)	X	1
14	B227-7	Switch Assembly – “AP OFF” (incl items 6, 10 [1], 11 [1], and 12 [1])	X	1
15	B227-2	Switch Assembly – “FREQ” (incl items 10 [1], 11 [1], and 12 [1])	X	3
16	F444	Cover Assembly – Cyclic (ref)		
17	01309-03-01 *	Control Panel (For Software Version 52; used only with item 19.)	X	1
18	01309-01-01 *	Control Panel (For Software Version 51; used only with item 20, not shown.)	X	1
19	01311-02-111 *	Flight Control Computer (For Software Version 52; used only with item 17, ref.)		
20	01311-03-11 *	Flight Control Computer (For Software Version 51. Used only with item 18, not shown; ref.)		
21	MS21042L08	Nut	X	4
22	NAS1149FN832P	Washer	X	4
23	MS3367-5-9	Ty-Rap	X	A/R
24	M23190/1-2	Clamp	X	1
25	MS27039C0806	Screw	X	4
26	01317-4 *	Servo Assembly (Roll, ref; see Figure 22-21)		
27	NAS557-16A	Grommet	X	1
28	NAS6606-11	Bolt	X	1
29	NAS1149F0332P	Washer	X	4
30	C069	Cyclic Control Assembly (ref)		

NOTES * Genesys-Aerosystems part number

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HELISAS – (PITCH) SERVO ASSEMBLY AND COMPONENTS INSTALLATION (Cont'd)		
22-17-31	D210-3	Nut	X	2
32	A341-1	Spacer	X	4
33	A127-3	Rod End	X	2
34	B330-7	Stamped Nut	X	1
35	AN315-3R	Nut	X	1
36	A336-8	Tube	X	1
37	F338-1	Box Assembly (ref)		
38	NAS1149F0363P	Washer	X	2
39	D337-1	Tube Assembly (ref)		
40	NAS6603-3	Bolt	X	2
41	01317-3*	Servo Assembly (Pitch)	X	1
42	NAS6603-18	Bolt	X	1
43	A141-17	Washer	X	1
44	C130-50	Spacer	X	1
45	NAS1149F0332P	Washer (earlier R66s this location)	X	2
46	D210-3	Nut (earlier R66s this location)	X	1
47	—	Nut	O	1
48	—	Lockwasher	O	1
49	B297-5	Circuit Breaker (5 amp; includes items 47, 48, 50, and 51) . .	X	1
50	—	Screw	O	2
51	—	Washer	O	2
52	-2103	Wire (ref)		
53	G050	Console Assembly (or G070, not shown; ref)		
54	B269-31	Screw Lock (male)	X	2
55	D323-2	Harness Assembly (incl items 54, and 56 thru 58)	X	1
56	B158-6	Heat Shrink	X	A/R
57	B269-22	Backshell	X	1
58	B269-8	Receptacle	X	1
59	D323-14	Harness Assembly (incl items 54, and 56 thru 58)	X	1
60	G060	Console Assembly (ref)		
NOTES * Genesys-Aerosystems part number.				

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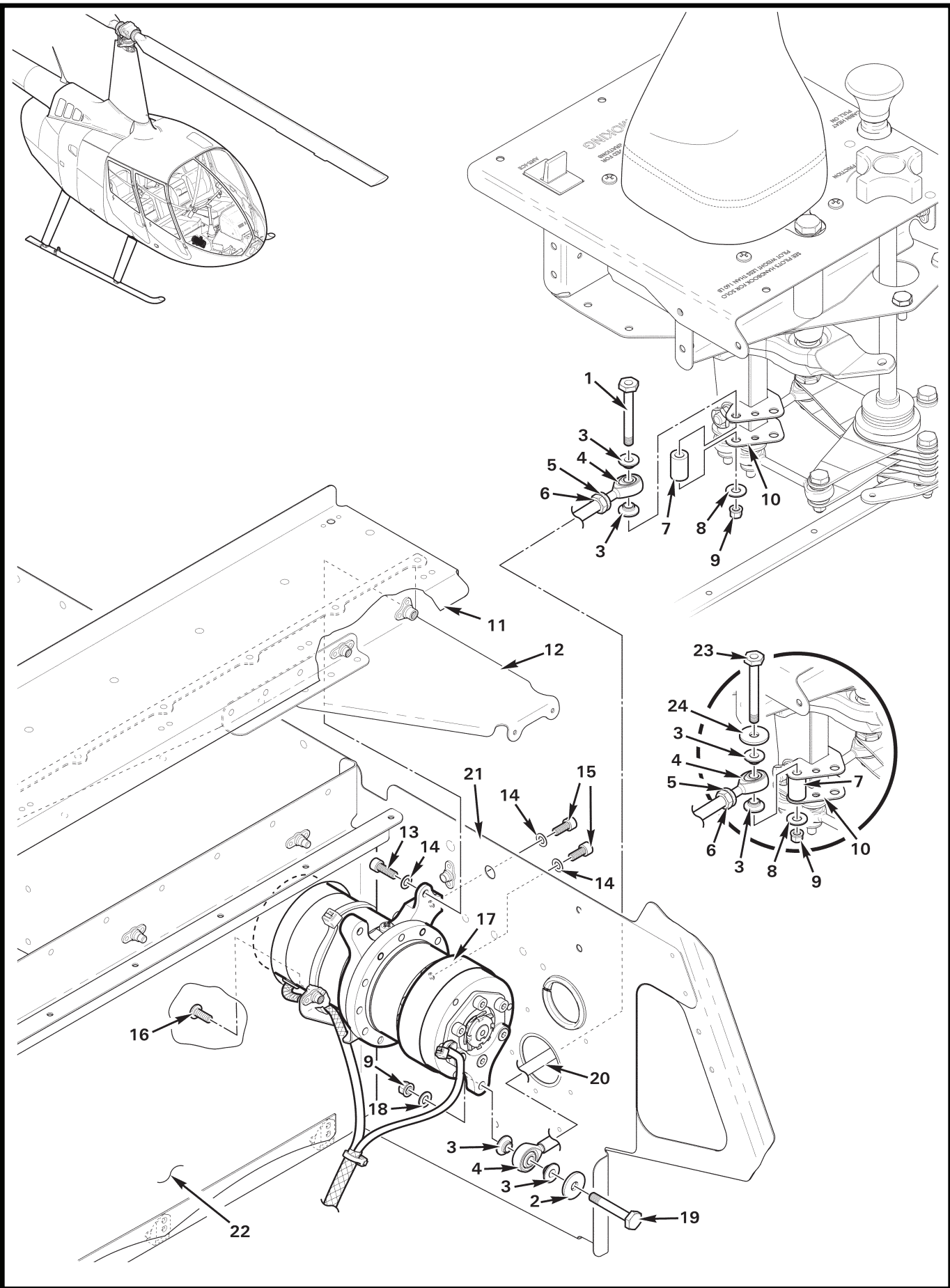


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HELISAS – (ROLL) SERVO ASSEMBLY INSTALLATION		
22-21-1	NAS6603-20	Bolt	X	1
2	A141-17	Washer	X	1
3	A341-1	Spacer	X	4
4	A127-3	Rod End	X	2
5	B330-7	Stamped Nut	X	2
6	AN315-3R	Nut	X	2
7	C130-51	Spacer	X	1
8	NAS1149F0332P	Washer	X	1
9	D210-3	Nut	X	3
10	D320-8	Stick Assembly – Cyclic (ref)		
11	F391-1	Cover Assembly (ref)		
12	D353-5	Brace Assembly (ref)		
13	NAS1352-08-8P	Screw	X	2
14	NAS620-8L	Washer	X	4
15	NAS1352-08-6P	Screw	X	2
16	B526-6	Screw	X	1
17	01317-4*	Servo Assembly (Roll)	X	1
18	NAS620-10L	Washer	X	1
19	NAS6603-14	Bolt	X	1
20	A336-8	Tube	X	1
21	F293-2	Keel Panel – Forward (ref, LH)		
22	G702-7	Cover Assembly (ref, see Figure 22-23)		
23	NAS6603-21	Bolt (earlier R66s)	X	1
24	A141-17	Washer (earlier R66s)	X	1
NOTES * Genesys-Aerosystems part number				

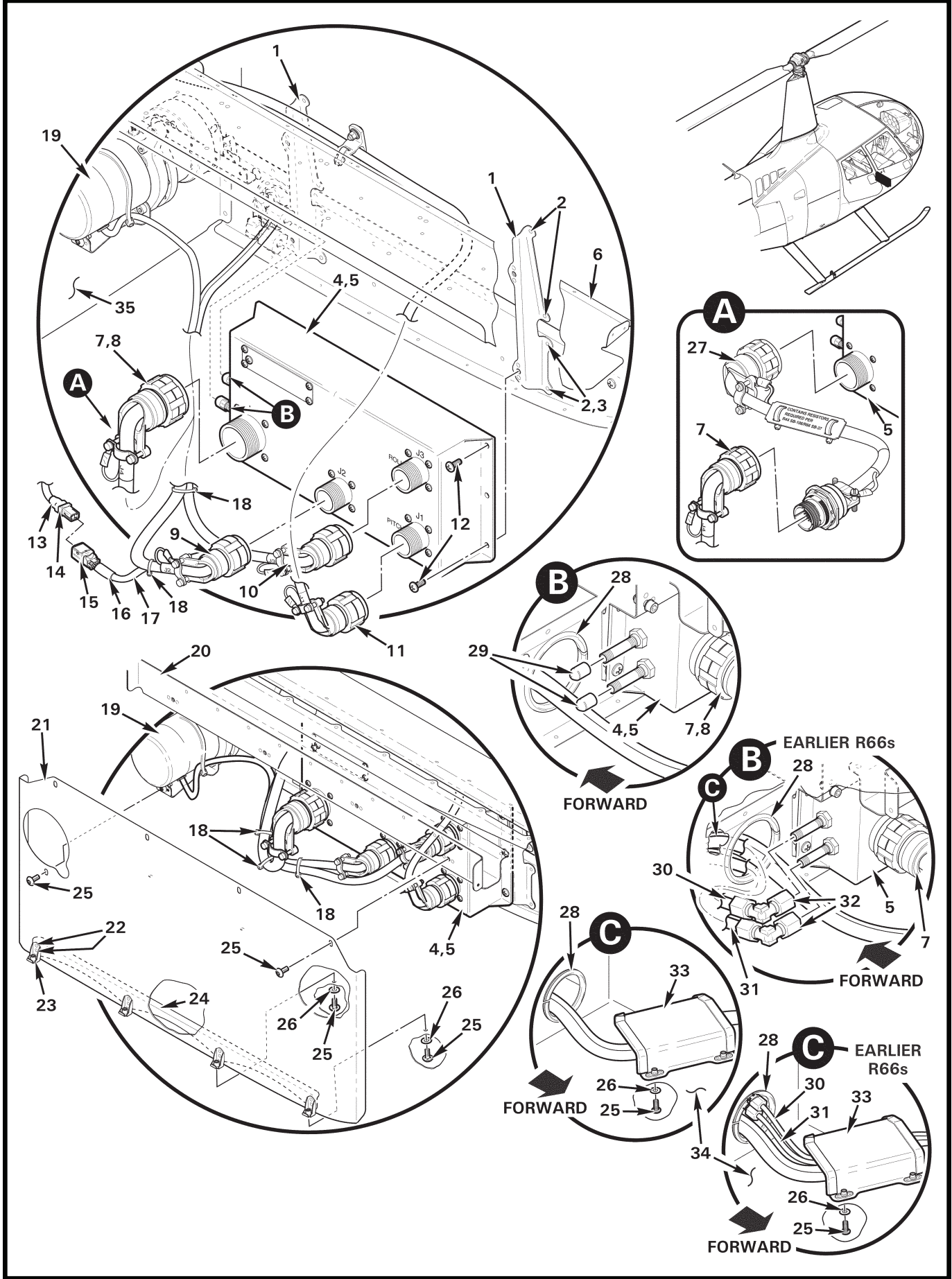


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HELISAS – FLIGHT CONTROL COMPUTER INSTALLATION		
22-23-1	D358-1	Support Assembly	X	2
2	MS20470AD3	Rivet	X	8
3	MS20604R3W2	Rivet (optional)	X	2
4	01311-02-111*	Flight Control Computer (For Software Version 52; used only with Figure 22-17 item 17.)	X	1
5	01311-03-11*	Flight Control Computer (For Software Version 51; used only with Figure 22-17 item 18.)	X	1
6	F391-1	Panel (ref)		
7	D323-12	Harness Assembly (G500H, for use with item 5 only)	X	1
8	D323-13	Harness Assembly (J4 or Aspen)	X	1
9	D323-2	Harness Assembly (Autopilot, Std; Incl items 15 thru 17)	X	1
	D323-14	Harness Assembly (Autopilot, Long; Incl items 15 thru 17)	X	1
10	01317-4*	Servo Wire Harness Assembly (Roll, ref)		
11	01317-3*	Servo Wire Harness Assembly (Pitch, ref)		
12	MS27039C0806	Screw	X	4
13	D323-15	Harness Assembly (EFIS, G500H; Incl items 14, 16, 17, B268-3 Lacing Tape, and wires)	X	1
	D323-10	Harness Assembly (EFIS, G500H; Incl items 14, 16, 17, B268-3 Lacing Tape, and wires; for use with item 5 only)	X	1
	D323-11	Harness Assembly (EFIS, Aspen; Incl items 14, 16, 17, B268-3 Lacing Tape, and wires)	X	1
14	D269-12	Receptacle (includes [9] M39029/58-360 pins)	X	1
15	D269-11	Plug (includes [9] M39029/57-354 sockets)	X	1
16	B158-6	Heat Shrink	X	A/R
17	B266-4	Sleeving	X	A/R
18	MS3367-5-0	Ty-Rap	X	A/R
19	01317-4*	Servo Assembly — Roll (ref)		
20	F362-5	Beam Assembly (ref)		
21	G702-7	Cover Assembly (incl items 22 thru 24)	X	1
22	MS20470AD3	Rivet	X	8
23	MF6000-08	Nutplate	X	4
24	G702-12	Stiffener	X	1
25	B526-6	Screw	X	11

NOTES * Genesys-Aerosystems part number

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HELISAS – FLIGHT CONTROL COMPUTER INSTALLATION (Cont'd)		
22-23-26	B527-08	Washer	X	6
27	D840-1 *	Harness Assembly (incl items 28 and 29)	X	1
28	NAS557-28A	Grommet	X	1
29	VC-240-8	Cap	X	2
30	A729-23	Static Tube (ref)		
31	A729-23	Pitot Tube (ref)		
32	50-4-N-O	Elbow	X	2
33	D555-4	Shield Assembly	X	1
34	F272-1	Chin (ref)		
35	F293-2	Keel Panel — Fwd (RH, ref; see Figure 22-21)		
NOTES * Harness may be installed between items 5 and 7 as an alternate method of compliance with R66 SB-37.				

CHAPTER 25

FURNISHINGS

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25-11	Five-Point Harness Inertia Reel Installation	25.10
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25-23	Kannad ELT Installation	25.22
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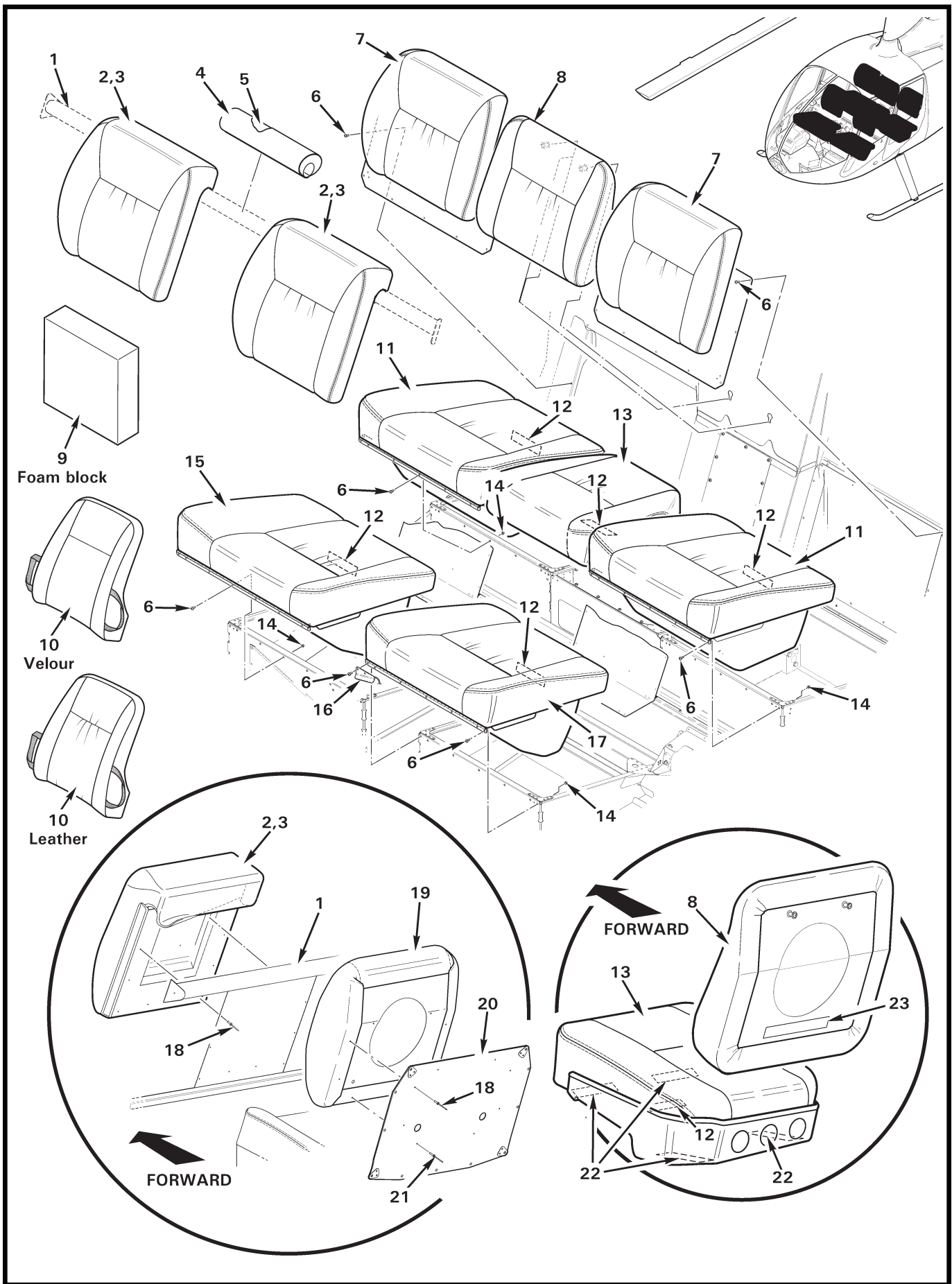


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		DOCUMENT HOLDER INSTALLATIONS		
25-19-1	A912-6	Pocket (console, LH and RH; 2.38" x 10.35")	X	2
	A912-5	Pocket (console, LH and RH; earlier ships, 4.13" x 10.35" not shown)	X	2
2	A913-5	Strip (short, console)	X	4
	A913-3	Strip (long, console; earlier aircraft, not shown)	X	4
3	NAS1149FN632P	Washer	X	16
4	B204-2	Rivet	X	16
5	A913-1	Strip (long, seat)	X	2
6	A913-2	Strip (short, seat)	X	2
7	A912-1	Pocket	X	1
8	NAS9301B-4-05	Rivet	X	4
9	A745-1	Strap	X	1
10	13-07900	License Holder	X	1
11	NAS9301B-4-04	Rivet (or NAS9301B-4-05)	X	4
NOTES				

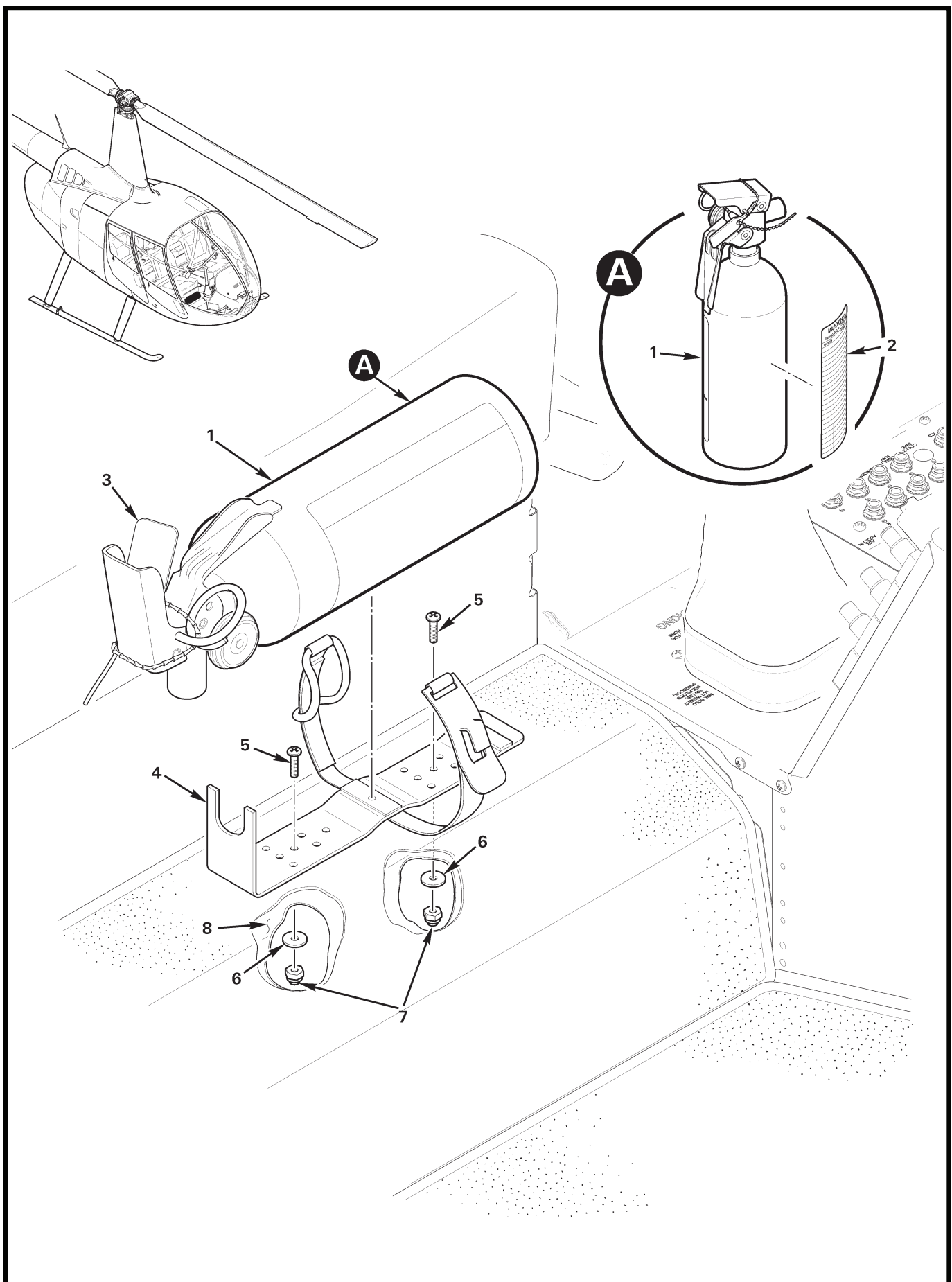


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-19B-1		FIRE EXTINGUISHER (HALOTRON BRX) INSTALLATION – PILOT’S SIDE		
	B381-4	Fire Extinguisher Assembly (includes M-900 Fire Extinguisher and items 2 & 3)	X	1
	M-900	Fire Extinguisher (Halotron BrX; 31-oz. capacity)	O	1
	2 G654-23	Decal – Maintenance Log	X	1
	3 RT-A400-CT	Safety Cable	X	1
	4 B381-5	Bracket	X	1
	5 AN525-10R7	Screw	X	2
	6 NAS1149F0332P	Washer	X	2
	7 B340-8	Nut	X	2
8	F391-1	Cover (ref)		
NOTES				

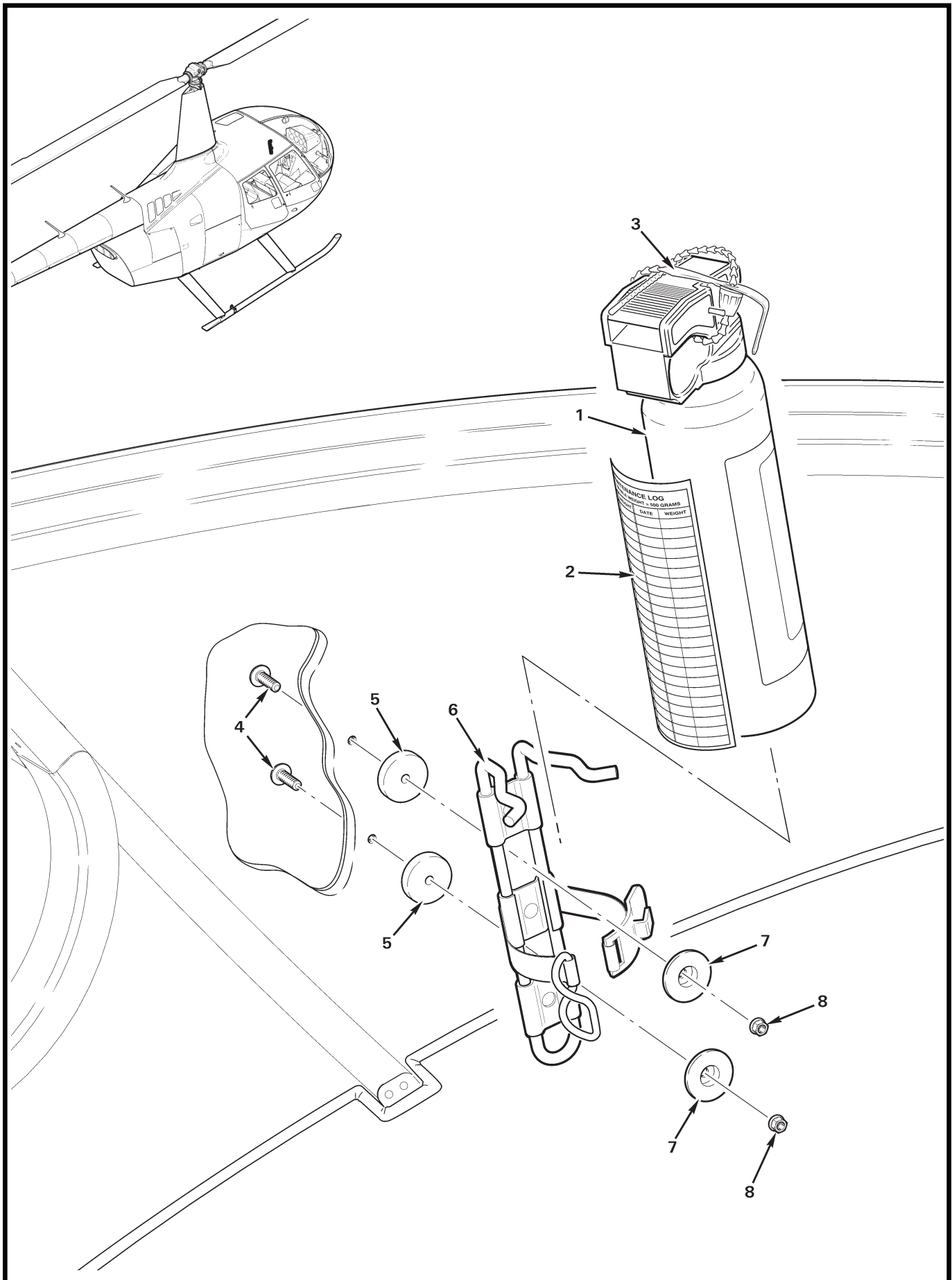


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-21-1		FIRE EXTINGUISHER (HALON) INSTALLATION – CO-PILOT’S SIDE		
	B381-1	Fire Extinguisher Assembly (includes RT-A400 Fire Extinguisher and items 2 & 3)	X	1
	RT-A400	Fire Extinguisher (Halon; 14-oz. capacity)	O	1
	2 G654-15	Decal – Maintenance Log	X	1
	3 RT-A400-CT	Safety Cable	X	1
	4 AN526C832R_	Screw (Select screw length to provide 0.00–0.06 in. exposed threads.)	X	2
	5 C130-54	Spacer	X	2
	6 B381-3	Bracket	X	1
	7 G220-1	Retainer	X	2
	8 MS21042L08	Nut	X	2
NOTES				

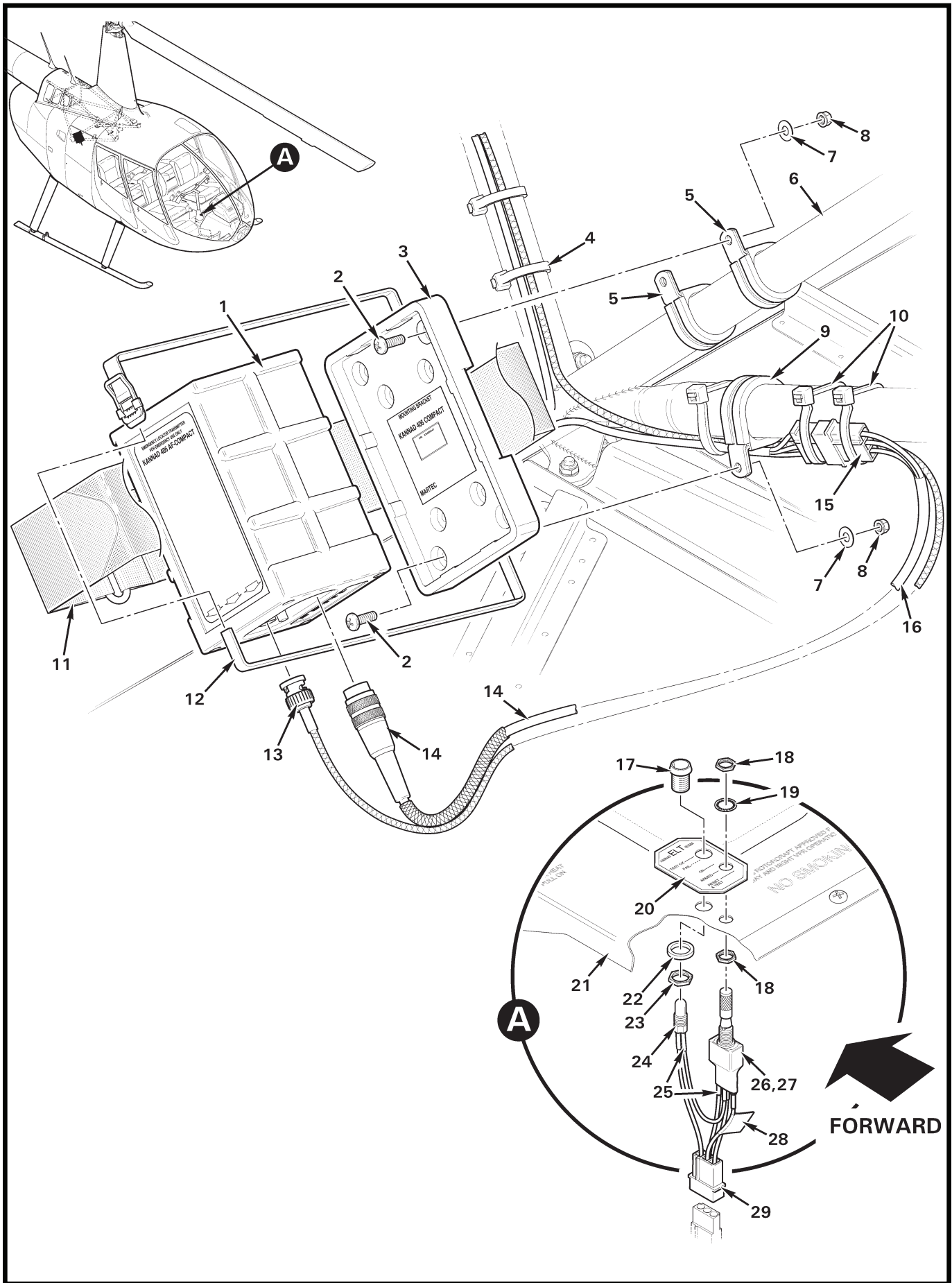


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PRESSURE FUELING SYSTEM – MAIN FUEL PORT		
28-37-1	D205-44	Hose Assembly	X	1
2	NAS557-28A	Grommet (for ships with optional aux fuel tank)	X	1
	MS35489-27	Grommet (for ships without optional aux fuel tank; not shown)	X	1
3	D205-36	Hose Assembly (ref; optional fuel tank installation shown)		
4	MS27039C0809	Screw	X	1
5	NAS1149FN816P	Washer	X	1
6	MS21042L08	Nut	X	1
7	MS21919WDG19	Clamp	X	1
8	MS21919WDG18	Clamp	X	1
9	F020-1	Frame Assembly – Upper (ref)		
10	B158-704	Heat Shrink	X	A/R
11	B263-1	Pin	X	3
12	B263-14	Housing	X	2
13	B263-15	Housing	X	2
	B263-2	Socket	X	4
14	B158-4	Heat Shrink (labeled “PRESS SW 1”)	X	A/R
15	—	Wire (typical, ref)		
16	M39029/58-360	Pin	X	6
17	B158-6	Heat Shrink	X	A/R
18	D269-5	Plug (includes [6] M39029/58-360 pins)	X	1
19	D269-6	Receptacle (includes [6] M39029/57-354 sockets)	X	1
	B267-5	Splice (not shown)	X	2
20	B158-6	Heat Shrink (labeled “PRESS FUEL”)	X	A/R
21	B266-4	Sleeving	X	A/R
22	MS3367-5-9	Ty-rap	X	A/R
23	B266-8	Sleeving	X	A/R
24	MS3367-4-9	Ty-rap	X	A/R
25	B158-4	Heat Shrink (labeled “PRESS SW 2”)	X	A/R
26	MS35489-7	Grommet	X	1
27	MS3367-4-0	Ty-rap	X	A/R
28	D745-7	Switch Assembly – Pressure (Includes switch, wires, and items 10 and 11, assembled [does not include item 12]. Install using item 29 or 30 on threads.)	X	2
29	B270-6	Sealant	X	A/R
30	A701-11	Tape (Teflon)	X	A/R
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PRESSURE FUELING SYSTEM – MAIN FUEL PORT (Cont'd)		
28-37-31	G913-4	Strut (ref)		
32	A225-1	Grommet	X	A/R
33	MS27039C1-06	Screw (install using item 34)	X	26
34	A257-9	Anti-seize	X	A/R
35	MS29513-270	Packing (install using item 36)	X	1
36	A257-6	Grease	X	A/R
37	F250-15	Cover Assembly (for ships with optional aux fuel tank)	X	1
	F250-12	Cover Assembly (for ships without optional aux fuel tank; not shown)	X	1
38	MS27039C1-07	Screw	X	2
39	G989-7	Shield	X	1
40	A880-1005	Nut	X	2
41	MS29512-05	Packing (install using item 36)	X	2
42	A521-6	Switch Assembly (Includes switch and wires, assembled; does not include item 16.)	X	1
43	A521-7	Switch Assembly (Revision P or later; includes switch and wires, assembled; does not include item 16.)	X	1
44	MS3367-4-9	Ty-rap (locks connector).	X	1
NOTES				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PRESSURE FUELING SYSTEM – PRESSURE FUEL PORT		
28-43-1	D205-45	Hose Assembly	X	1
2	G990-4	Sensor Assembly (Incl items 3 thru 6)	X	1
3	—	Hex Nut	O	1
4	B158-6	Heat Shrink	X	A/R
5	D269-21	Backshell	X	1
6	D269-1	Plug (includes [3] M39029/58-360 pins)	X	1
	B158-01	Heat Shrink (around white wire, not shown)	X	A/R
7	MS21042L08	Nut (ref)		
8	NAS1149FN816P	Washer (ref)		
9	G991-3164	Wire (Ground, from G992-1 valve assembly; ref)		
10	G991-3172	Wire (Ground, from item 2; ref)		
11	B260-3	Terminal	X	1
12	G236-1	Bulkhead – Fuel Tank (ref)		
13	G989-6	Fitting (apply item 14 between fitting and item 17)	X	1
14	B270-1	Sealant	X	A/R
15	MS29512-16	Packing (install using item 16)	X	1
16	A257-6	Grease	X	A/R
17	G239-1	Panel (ref)		
18	MS3367-5-9	Ty-Rap	X	A/R
19	MS3367-4-9	Ty-Rap (locks connector).	X	1
20	D269-2	Receptacle (includes [3] M39029/57-354 sockets)	X	1
21	B266-4	Sleeving	X	A/R
22	G989-9	Housing Weldment (ref)		
23	G987-1	Valve Assembly	X	1
24	F233-1	Firewall (ref)		
25	MS21042L08	Nut	X	4
26	NAS1149FN816P	Washer	X	4
27	NAS6603-2	Bolt	X	1
28	NAS1149F0332P	Washer	X	1
29	MS27039C0810	Screw	X	4
30	G988-1	Cap Assembly	X	1
31	G682-45	Decal – "FUEL GRADE" (for use with lighter ships)	X	1
	G682-47	Decal – "FUEL GRADE" (for use with darker ships).	X	1
NOTES				

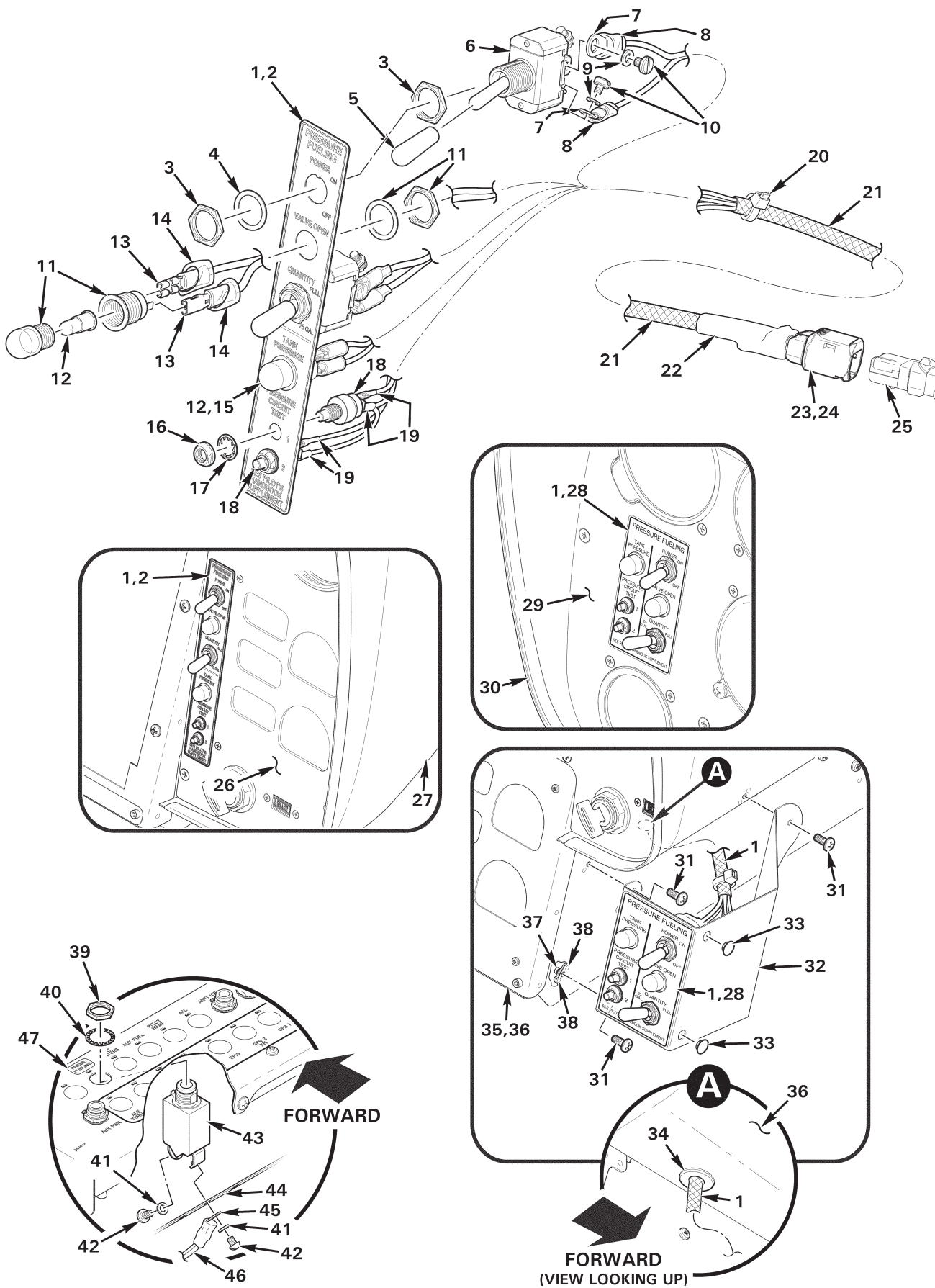


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PRESSURE FUELING SYSTEM – ELECTRICAL COMPONENTS		
28-45-1	G990-1	Switch Assembly – Fuel (includes items 5 thru 8, 11 thru 15, 18 thru 24, and wires, assembled.)	X	1
2	G990-3	Panel – Fuel (G060; Revision E or later)	X	1
3	—	Nut	O	4
4	—	Washer	O	2
5	AT406B	Cap	X	2
6	B300-4	Switch (incl items 3 [2], 4 [1], 9 [3], and 10 [3])	X	2
7	B260-2	Terminal	X	4
8	B158-6	Heat Shrink (4 places)	X	A/R
9	—	Lockwasher	O	6
10	—	Screw	O	6
11	B198-1	Light – Caution (amber; does not include item 12)	X	1
12	B196-21	Lamp (28-volt)	X	2
13	B262-1	Receptacle	X	4
14	B158-3	Heat Shrink (4 places)	X	A/R
15	B198-2	Light – Warning (red; does not include item 12)	X	1
16	B227-4	Dress Nut	X	2
17	B227-3	Lockwasher	X	2
18	B227-6	Switch Assembly (includes items 16 and 17; supplied plain washer not used)	X	2
19	B158-2	Heat Shrink (4 places)	X	A/R
20	MS3367-4-0	Ty-rap	X	1
21	B266-4	Sleeving (or B266-8 sleeving)	X	A/R
22	B158-8	Heat Shrink (labeled “PRESS FUEL”)	X	A/R
23	D269-23	Backshell	X	1
24	D269-11	Plug (includes [9] M39029/57-354 sockets).	X	1
25	D269-12	Receptacle (ref)		
26	G065	Face (ref)		
27	G060	Console (ref)		
28	G990-8	Panel – Fuel (G050/G070; Revision E or later)	X	1
29	G055	Face (ref)		
30	G050	Console (ref)		
31	MS27039C0806	Screw	X	3
32	G990-5	Bracket	X	1
33	2603	Hole Plug	X	2
34	MS35489-149	Grommet	X	1
35	G074	Face (ref)		
36	G070	Console (ref)		
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PRESSURE FUELING SYSTEM – ELECTRICAL COMPONENTS (Cont'd)		
28-45-37	MS21069L08K	Nutplate	X	3
38	MS20426AD3	Rivet	X	6
39	—	Nut	O	1
40	—	Lockwasher	O	1
41	—	Washer	O	2
42	—	Screw	O	2
43	B297-5	Circuit Breaker (5 amp, includes items 39 thru 42)	X	1
44	A448	Bus Bar (ref)		
45	B260-2	Terminal	X	1
46	G991-3156	Wire (ref)		
	G991-3180	Wire (ref)		
47	G682-46	Decal "PRESS FUELING"	X	1
NOTES				

CHAPTER 32**LANDING GEAR**

<i>Figure</i>	<i>Title</i>	<i>Page</i>
32-1	Landing Gear Assembly	32.0
32-5	Strut Fairing Assembly	32.4
32-7	Pop-Out Floats – Cylinder Assembly Installation	32.6
32-9	Pop-Out Floats – Lever Assembly	32.8
32-11	Pop-Out Floats – Float Assembly Installation	32.10
32-15	Pop-Out Floats – Hose Assembly Installation	32.14
32-17	Pop-Out Floats – Float Assembly and Hose Assembly	32.16
32-19	Skid Step Installation (Small)	32.18
32-21	Skid Step Installation (Long)	32.20

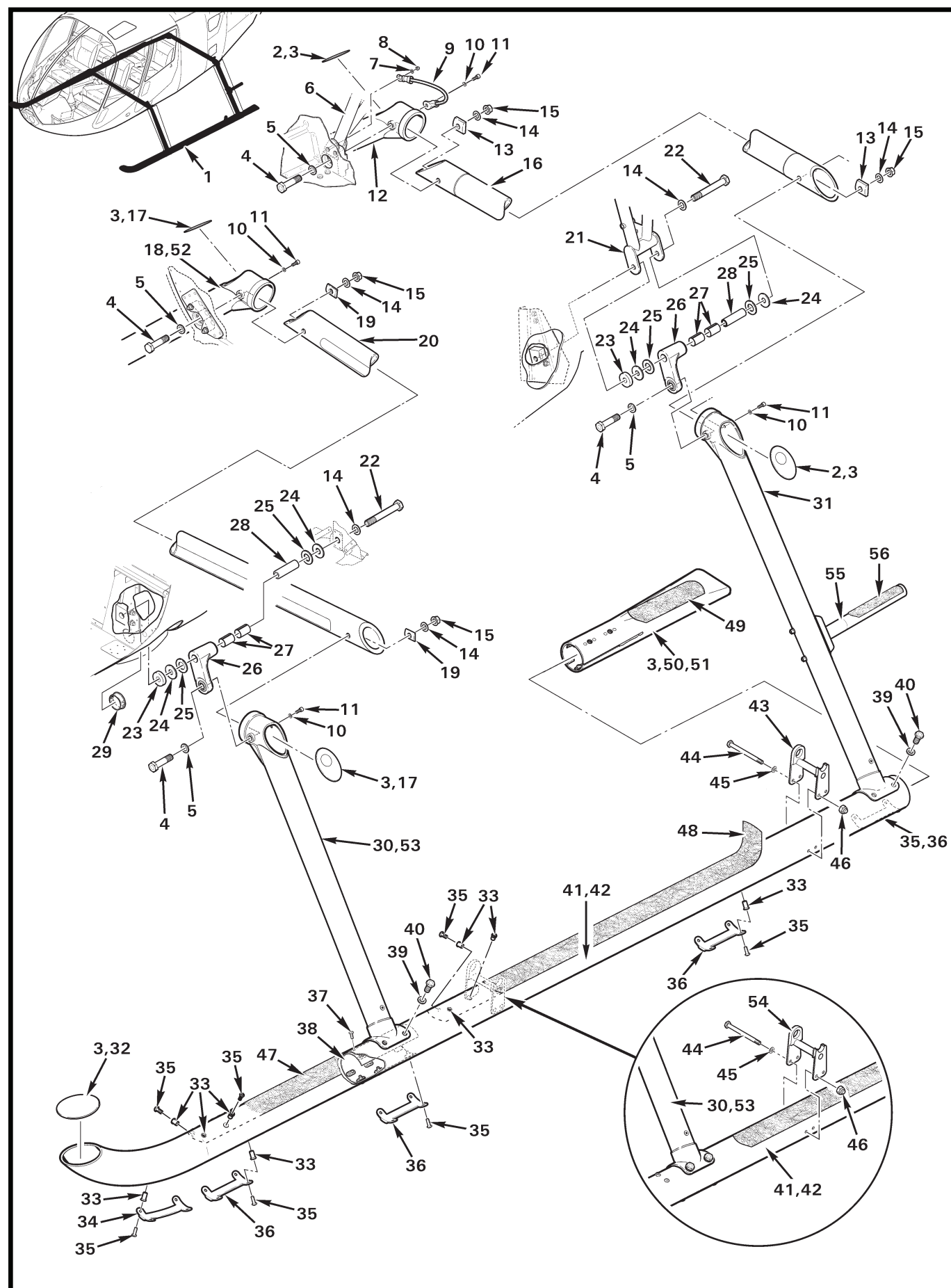


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		POP-OUT FLOATS – FLOAT ASSEMBLY AND HOSE ASSEMBLY		
32-17-1	A-53001	Valve – Pressure Topping and Relief (Incl item 2)	X	6
2	A215-212	O-Ring	X	1
3	C950-24*	Float Tube Assembly – RH (Six chamber, includes item 1) . . .	X	1
	C950-20**	Float Tube Assembly – RH (Six chamber, includes item 1) . . .	X	1
	C950-23*	Float Tube Assembly – LH (Six chamber, includes item 1) . . .	X	1
	C950-19**	Float Tube Assembly – LH (Six chamber, includes item 1) . . .	X	1
4	A215-110	O-Ring	X	1
5	A215-212	O-Ring	X	1
6	D770-1	Valve Assembly (Incl items 4 and 5)	X	1
7	D770-2	Valve Assembly (Incl items 4 and 5)	X	1
8	D674-11	Hose Assembly (Incl item 9)	X	1
9	B158-116	Heat Shrink	X	A/R
10	D770-3	Valve Assembly (Incl items 4 and 5)	X	1
11	D770-4	Valve Assembly (Incl items 4 and 5)	X	1
12	D770-5	Valve Assembly (Incl items 4 and 5)	X	1
13	D770-6	Valve Assembly (Incl items 4 and 5)	X	1
14	D674-7	Hose Assembly (Incl item 15)	X	1
15	B158-12	Heat Shrink	X	A/R
16	AN824-8D	Tee (install using item 27)	X	2
17	D674-12	Hose Assembly (Incl item 9)	X	2
18	D674-10	Hose Assembly (Incl item 9)	X	2
19	D674-6	Hose Assembly (Incl item 9)	X	3
20	D674-2	Hose Assembly (Incl item 9)	X	2
21	D674-13	Hose Assembly (Ref, see Figure 32-15)		
22	AN824-8D	Tee (Ref, see Figure 32-15)		
23	F239-4	Strut Assembly – Forward, RH (Ref; see Figure 32-1)		
24	MS3367-7-9	Ty-Rap ([10] per forward strut assembly)	X	20
25	F082-12	Fairing Assembly – Forward, RH (Ref; see Figure 32-5)		
26	C943-8	Skid Tube – RH (Ref)		
27	B270-22	Protectant	X	A/R
NOTES * Manufactured by Air Crusiers. ** Manufactured by SMR Technologies, Inc.				

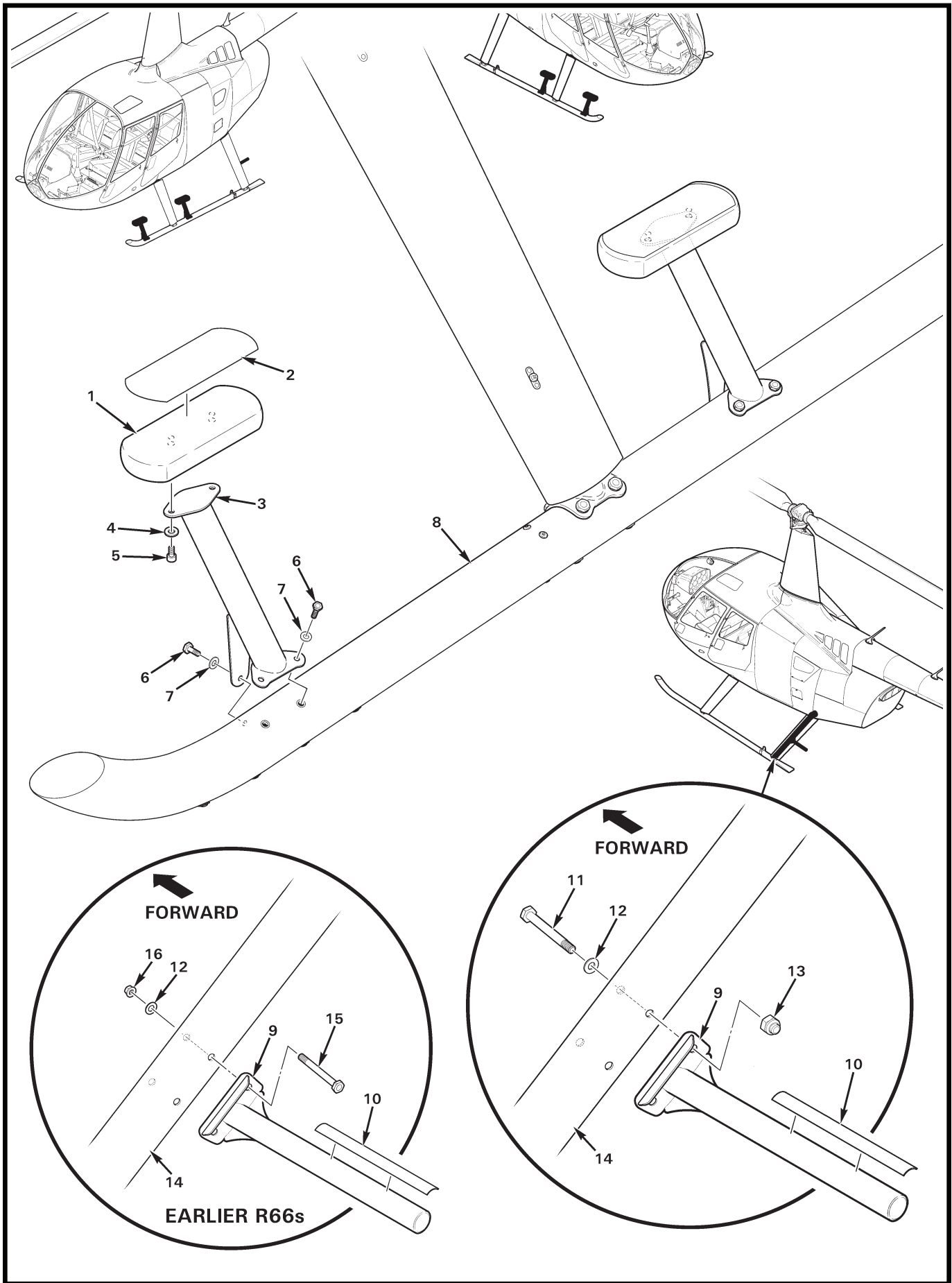


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SKID STEP INSTALLATION (SMALL)*		
32-19-1	F781-1	Step Assembly (incl item 2)	X	4
2	A751-8	Strip	X	1
3	F780-2	Support Weldment (RH and LH, FWD and AFT)	X	1
4	NAS1149F0363P	Washer	X	2
5	NAS1351-3-8P	Screw	X	2
6	NAS6603-3	Bolt	X	3
7	NAS1149F0332P	Washer	X	3
8	C242-7	Skid Tube Assembly (LH)	O	1
	C242-9**	Skid Tube Assembly (LH, includes C242-7 and is painted) . . .	X	1
	C242-8	Skid Tube Assembly (RH)	O	1
	C242-10**	Skid Tube Assembly (RH, includes C242-8 and is painted) . . .	X	1
9	F780-1	Step Assembly (left aft strut only; includes item 10)	X	1
10	A751-7	Strip	X	1
11	NAS6604-31	Bolt	X	2
12	NAS1149F0432P	Washer	X	2
13	B340-10	Nut	X	2
14	F239-1	Strut Assembly (ref; revision J and subsequent include provisions for F780-1 step installation)		
15	NAS6604-32	Bolt	X	2
16	D210-4	Nut	X	2
NOTES * Optional equipment; cannot be installed with floats. Flight with one or more step assemblies and mounting hardware removed is permissible; quantities shown are for one step assembly. ** Revision O and subsequent Skid Tube Assemblies include provisions for Skid Step installation.				

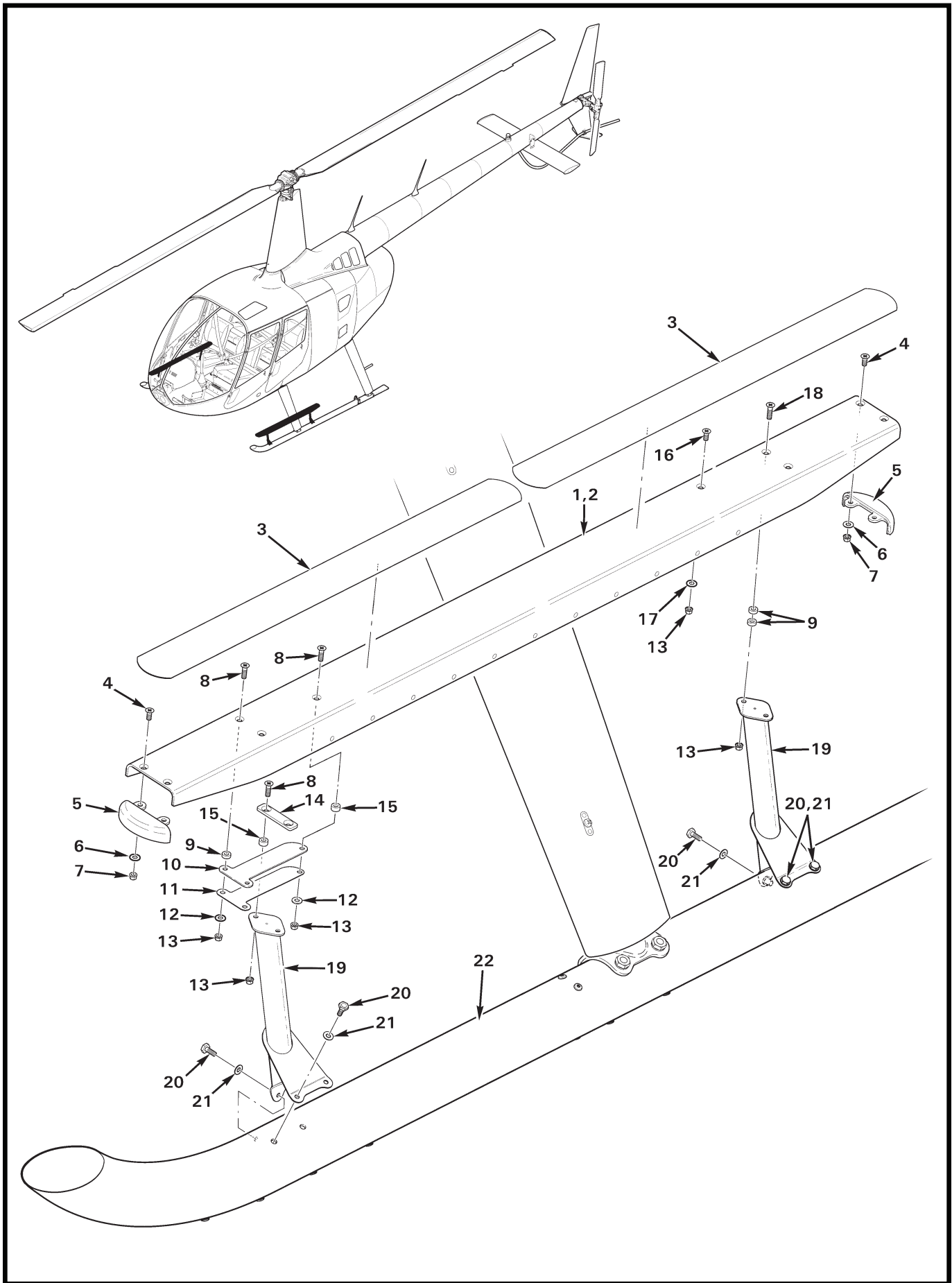


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
32-21-1		SKID STEP INSTALLATION (LONG)*		
	F782-5	Step Assembly — LH (incl items 2, 3, and 8 thru 19; install with sliders in FWD location)	X	1
	F782-6	Step Assembly — RH (incl items 2, 3, and 8 thru 19; install with sliders in FWD location; not shown)	X	1
	2 F782-4	Step Assembly (LH or RH; includes items 4 thru 7)	X	1
	3 A751-10	Strip (self-adhesive)	X	2
	4 MS24694-S49	Screw	X	4
	5 F783-4	Cap	X	2
	6 NAS1149F0332P	Washer	X	4
	7 D210-3	Nut	X	4
	8 MS24694-S52	Screw	X	5
	9 A130-20	Spacer	X	6
	10 F783-6	Slider, plastic	X	1
	11 F783-3	Slider, metal	X	1
	12 NAS1149F0332P	Washer	X	3
	13 D210-3	Nut	X	8
	14 F783-5	Pad	X	1
	15 A130-21	Spacer	X	3
	16 MS24694-S49	Screw	X	1
	17 NAS1149F0363P	Washer	X	1
	18 MS24694-S53	Screw	X	2
	19 F780-3	Support Weldment (LH or RH)	X	2
	20 NAS6603-3	Bolt	X	6
	21 NAS1149F0332P	Washer	X	6
	22 C242-7	Skid Tube Assembly (LH)	O	1
	C242-9**	Skid Tube Assembly (LH, includes C242-7 and is painted) . .	X	1
	C242-8	Skid Tube Assembly (RH)	O	1
	C242-10**	Skid Tube Assembly (RH, includes C242-8 and is painted) . .	X	1
NOTES * Optional equipment; cannot be installed with floats. Flight with one or more step assemblies and mounting hardware removed is permissible; quantities shown are for one step assembly. ** Revision O and subsequent Skid Tube Assemblies include provisions for Skid Step installation.				

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CHAPTER 63**MAIN ROTOR DRIVE SYSTEM**

<i>Figure</i>	<i>Title</i>	<i>Page</i>
63-1	Engine Shaft Weldment & Clutch Assembly	63.0
63-3	Main Rotor Gearbox & Mast Assembly	63.2
63-7	Main Rotor Gearbox & Mast Installation	63.6
63-9	Rotor Brake Assembly	63.8
63-13	Main Rotor Gearbox – Oil System	63.12
63-15	Main Rotor Gearbox – Oil Cooler Installation	63.14

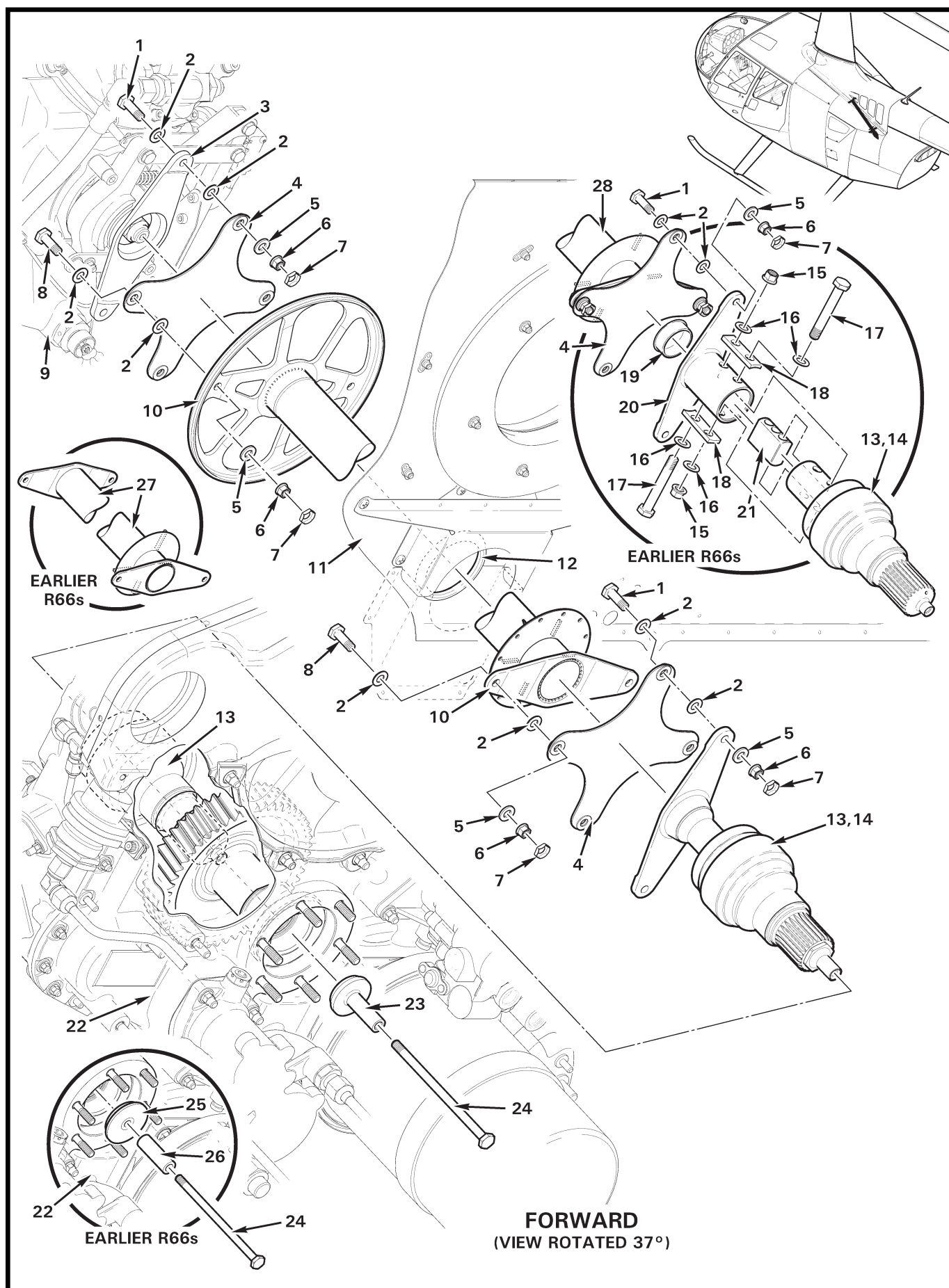
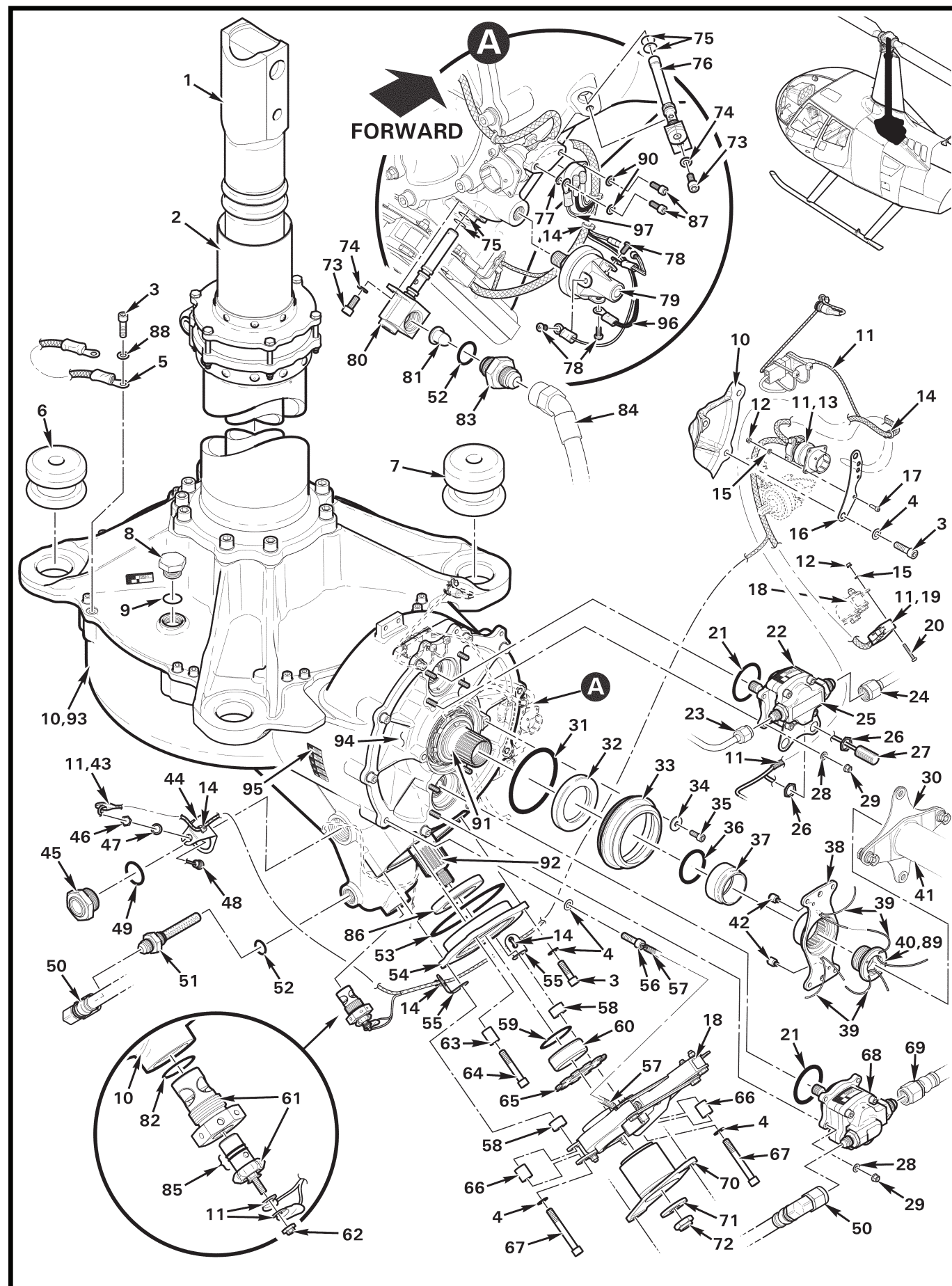


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		ENGINE SHAFT WELDMENT & CLUTCH ASSEMBLY		
63-1-1	NAS6604-6	Bolt	X	4
2	NAS1149F0432P	Washer (or NAS1149F0463P washer; see R66 Maintenance Manual for shimming requirements)	X	16
3	F910-1	Yoke (ref, see Figure 63-3)		
4	A947-2	Flex Plate Assembly (revision H or subsequent)	X	2
5	NAS1149F0463P	Washer (or NAS1149F0432P washer; see R66 Maintenance Manual for shimming requirements)	X	8
6	D210-4	Nut	X	8
7	B330-13	Stamped Nut	X	8
8	NAS6604-5	Bolt	X	4
9	F006-1	Main Rotor Gearbox Assembly (ref; see Figure 63-3)		
10	F642-7	Shaft Assembly (rev. H and subsequent)	X	1
11	F234-1	Firewall (ref)		
12	NAS557-32A	Grommet	X	1
13	F018-1	Clutch Assembly (coat splines and clamping face with item 14 at installation)	X	1
	F018-1	Clutch Assembly (rev. C and prior include items 15 thru 21; coat splines and clamping face with item 14 at installation) . .	X	1
14	A257-1	Lubricant (also A257-9 or A257-12)	X	A/R
15	MS21042L5	Nut	X	2
16	NAS1149F0532P	Washer	X	4
17	NAS6605-26	Bolt	X	2
18	A191-1	Block	X	2
19	B278-2	Plug	X	1
20	F906-1	Yoke (install using wet primer)	X	1
21	A553-1	Block	X	1
22	F145-1	Engine (ref)		
23	G732-3	Cap	X	1
24	G732-4	Bolt (supersedes NAS6604-67 bolt in this installation) . . .	X	1
	NAS6604-67	Bolt (earlier helicopters)	O	1
25	G732-2	Cap	O	1
26	C130-62	Spacer	O	1
27	F642-1	Shaft Weldment (ref; rev. A thru D, no longer available)		
28	F642-6	Shaft Weldment (rev. E thru G, no longer available)	O	1
NOTES				



CHAPTER 67

FLIGHT CONTROLS

<i>Figure</i>	<i>Title</i>	<i>Page</i>
67-1	Cyclic Control System	67.0
67-5	Cyclic Pivot Assembly and Torque Tube	67.4
67-9	Push-Pull Tube Assemblies (Lower)	67.8
67-11	Cyclic Grip Assembly	67.10
67-15	Cyclic Grip Assembly	67.14
67-19	Cyclic Friction Assembly	67.18
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67-29	Tail Rotor Controls – Adjustable Pedals	67.28
67-31	Tail Rotor Controls – Pedal Cover Installation	67.30
67-33	F334 Support Assembly Installation	67.32
67-35	C317 Bellcrank Assembly	67.34
67-37	F316 Bellcrank Assembly	67.36
67-39	A331 Bellcrank Assembly	67.38
67-41	C017-6 Swashplate Installation	67.40
67-43B	C258-8 Pitch Link Installation	67-43A
67-43D	C258-5 & C258-1 Pitch Link Installation	67-43C
67-45	Swashplate Ball Installation (C017 revision AD & subsequent)	67.44
67-47	Swashplate Ball Installation (C017 revision AA thru AC)	67.46

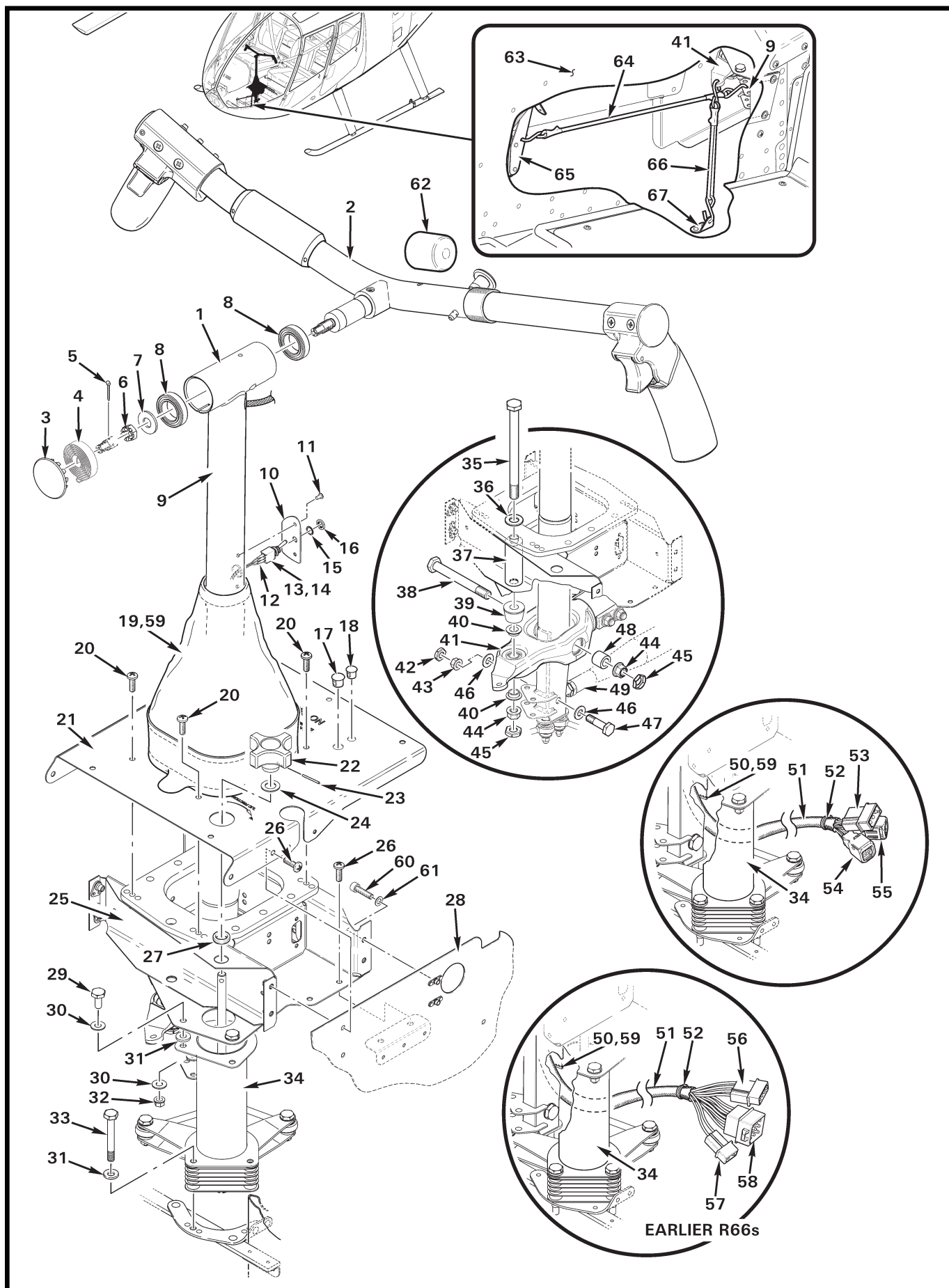


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		A331 BELLCRANK ASSEMBLY		
67-39-1	NAS6604-11	Bolt	X	1
2	A214-3	Washer	X	3
3	MS20002-4	Washer	X	1
4	NAS1149F0432P	Washer	X	6
5	D210-4	Nut	X	4
6	A120-5	Bellcrank (ref)		
7	A331-4	Bellcrank Assembly	X	1
8	NAS6604-35	Bolt	X	1
9	A141-3	Washer	X	2
10	A105-3	Journal	X	2
11	NAS6604-9	Bolt	X	1
12	A127-4	Rod End	X	2
13	B330-13	Stamped Nut	X	6
14	AN316-4R	Nut	X	2
15	C121-17	Push-Pull Tube Assembly (incl items 12 thru 14, and 16)	X	1
16	C121-18	Tube (ref)		
17	NAS6604-10	Bolt	X	1
18	NAS1149F0432P	Washer (or NAS1149F0463P as required for minimum clearance)	X	A/R
NOTES				

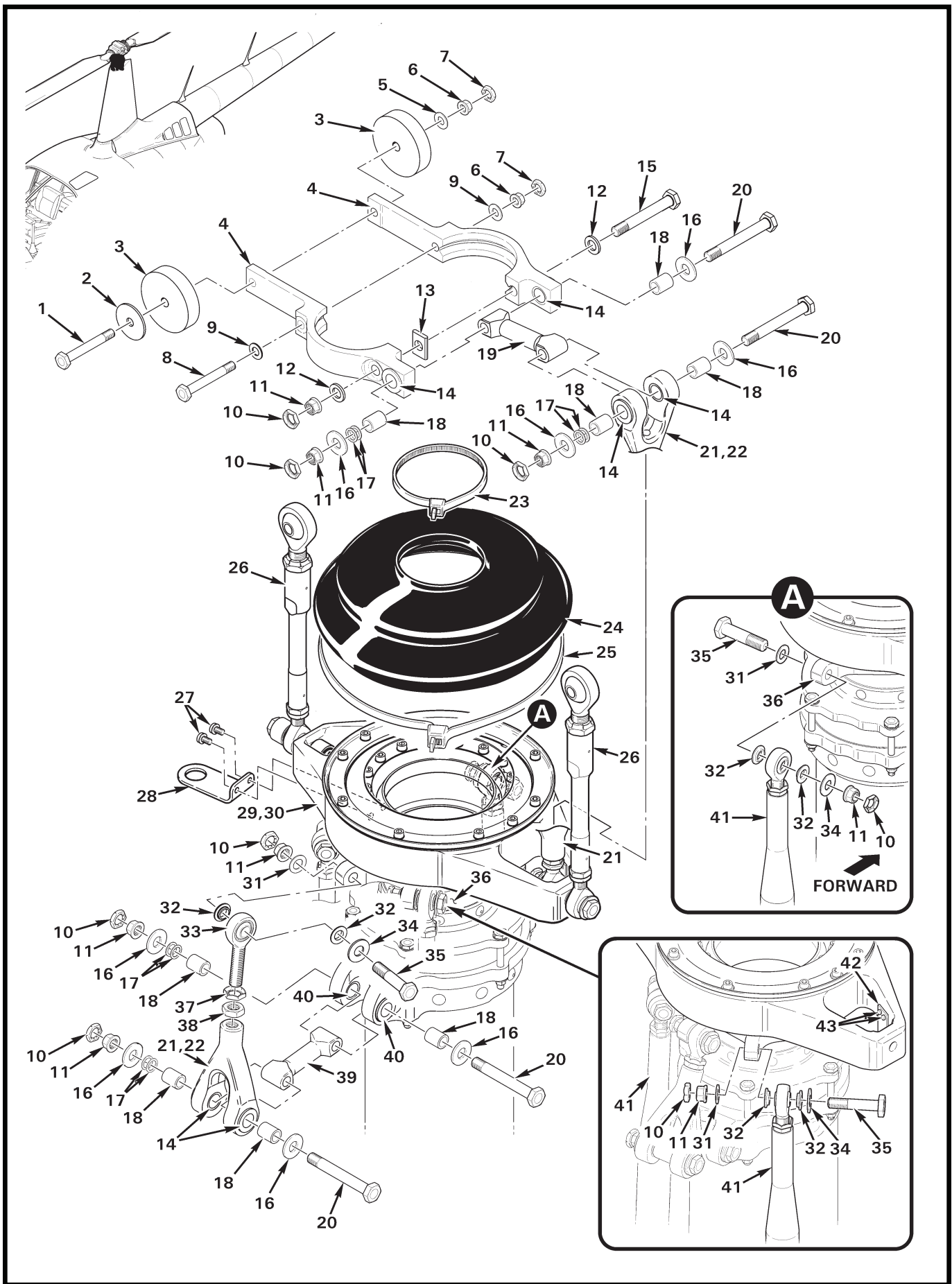


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C017-6 SWASHPLATE INSTALLATION		
67-41-1	NAS6604-24	Bolt (Select bolt length which, after correct torque is applied, exposes 2 to 4 threads beyond nut.)	X	1
2	AN970-4 *	Washer (A/R for balance)	X	A/R
3	A255-1 *	Counter Weight (1.10 in. O.D.)	X	A/R
	A255-2 *	Counter Weight (1.90 in. O.D.)	X	A/R
4	C203-5	Yoke Assembly (includes item 14[1])	X	2
5	NAS1149F0432P	Washer (or NAS1149F0463P as required for proper thread engagement)	X	A/R
6	D210-4	Nut	X	2
7	B330-13	Stamped Nut	X	2
8	NAS6604-24	Bolt	X	1
9	NAS1149F0432P	Washer	X	2
10	B330-16	Stamped Nut	X	9
11	D210-5	Nut	X	9
12	NAS1149F0563P	Washer	X	2
13	A210-1	Key	X	1
14	C648-2	Bearing – Journal (install wet; see R66 MM § 20-75 for approved primer)	X	6
15	NAS6605-28	Bolt	X	1
16	C141-19	Washer	X	8
17	C117-67	Shim (thickness = 0.016 in.)	X	A/R
	C117-68	Shim (thickness = 0.020 in.)	X	A/R
	C117-69	Shim (thickness = 0.025 in.)	X	A/R
18	C105-6	Journal (length = 0.526 in.)	X	8
19	C204-3	Arm (upper; 2.870 inches long)	X	1
20	NAS6605-31	Bolt	X	4
21	A205-7	Fork Assembly (includes item 14 [2]; see Figure 67-43B or 67-43D.)	X	2
22	B270-13	Sealant (to fill cavity in item 21)	X	A/R
23	MS3367-7-0	Ty-Rap	X	1
24	C480-1	Boot	X	1
25	MS3367-6-0	Ty-Rap	X	1
26	C258-8 **	Pitch Link Assembly (ref)		
27	NAS1352N08-4	Screw	X	2
28	B769-2	Bracket	X	1

NOTES * For main rotor balance adjustment, refer to R66 MM § 18-14 Part C.

** C258-8 shown; see Figure 67-43B. C258-5 & -1 not shown; see Figure 67-43D.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C017-6 SWASHPLATE INSTALLATION (Cont'd)		
67-41-29	C017-6	Swashplate Assembly (incl items 27, 28, 30, 36, 42, 43, and 44)	X	1
	C017-6R	C017-6 Swashplate Assembly (overhaul exchange; requires core deposit)	X	1
30	C199-2	Swashplate Assembly – Upper (ref)		
31	NAS1149F0532P	Washer	X	4
32	C115-1	Spacer	X	8
33	D173-3*	Rod End	X	1
34	C141-1	Washer	X	4
35	NAS6605-17	Bolt	X	4
36	F198-1	Swashplate Assembly – Lower (ref)		
37	B330-19	Stamped Nut	X	1
38	AN316-6R	Nut	X	1
39	C204-2	Arm – Lower (2.520 inches long)	X	1
40	C648-2	Bearing (ref)		
41	F121-3	Push-Pull Tube Assembly (ref; see Figure 67-27.)		
42	C769-2	Interrupter	X	1
43	MS20470AD3	Rivet	X	2
44	C647-12	Bearing Set (life-limited component, see R66 MM § 4-10; not shown)	O	1

45	KI-6604	R44-series & R66 C017-5 Swashplate Installation Parts Kit Instructions (Contains parts to install C017-6 swashplate assembly and supersedes R7983 kit. Does not include swashplate or C284 tube assembly.)	X	A/R
NOTES * Apply B270-21 Protectant to threads before installing in item 21.				

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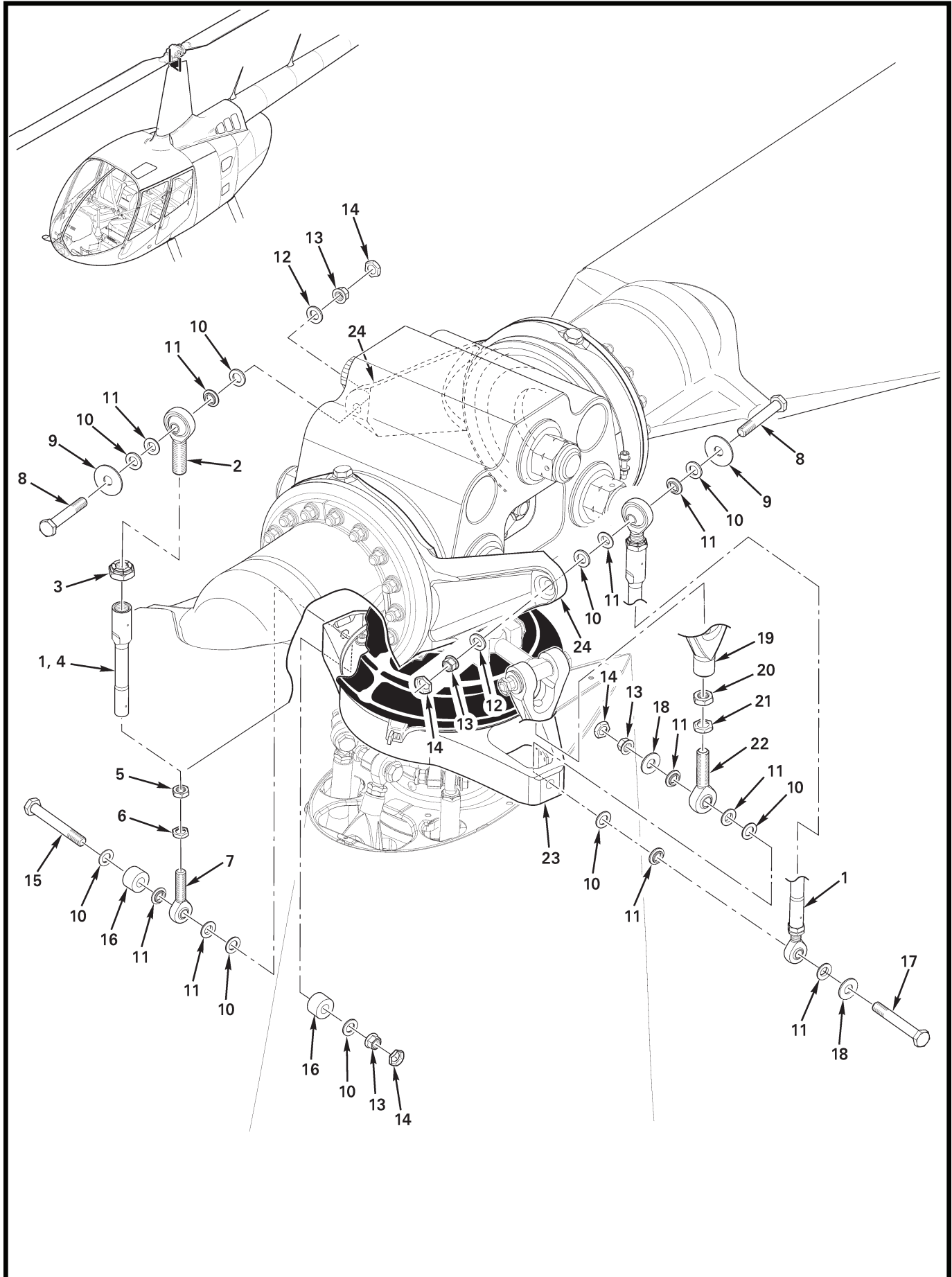


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C258-8 PITCH LINK INSTALLATION*		
67-43B-1	C258-8*	Pitch Link Assembly (incl items 2 thru 7)	X	2
2	D173-6**	Rod end	X	2
3	21FKF-813	Nut (alternate part no. 27FKF-813)	X	2
4	C258-6	Barrel Assembly	X	2
5	AN316-6R	Nut	X	2
6	B330-19	Stamped Nut	X	2
7	D173-3**	Rod end	X	2
8	NAS6605-23	Bolt	X	2
9	C141-27	Washer	X	2
10	NAS1149F0532P	Washer	X	9
11	C115-1	Spacer	X	10
12	NAS1149F0563P	Washer	X	2
13	D210-5	Nut	X	4
14	B330-16	Stamped Nut	X	4
15	NAS6605-31	Bolt	X	1
16	A255-3	Counterweight	X	2
17	NAS6605-28	Bolt	X	1
18	C141-1	Washer	X	2
19	A205-7	Fork Assembly (ref; includes items 20 thru 22. Install on interrupter-side swashplate ear)		
20	AN316-6R	Nut	X	1
21	B330-19	Stamped Nut	X	1
22	D173-3***	Rod end	X	1
23	C017-6	Swashplate Assembly (ref)		
24	C157-3	Pitch Horn (ref)		
NOTES * Must be installed in pairs; refer to R66 Service Letter SL-54. ** Apply A257-2 or A257-22 oil to threads before installing in item 4. *** Apply B270-21 Protectant to threads before installing in item 19.				

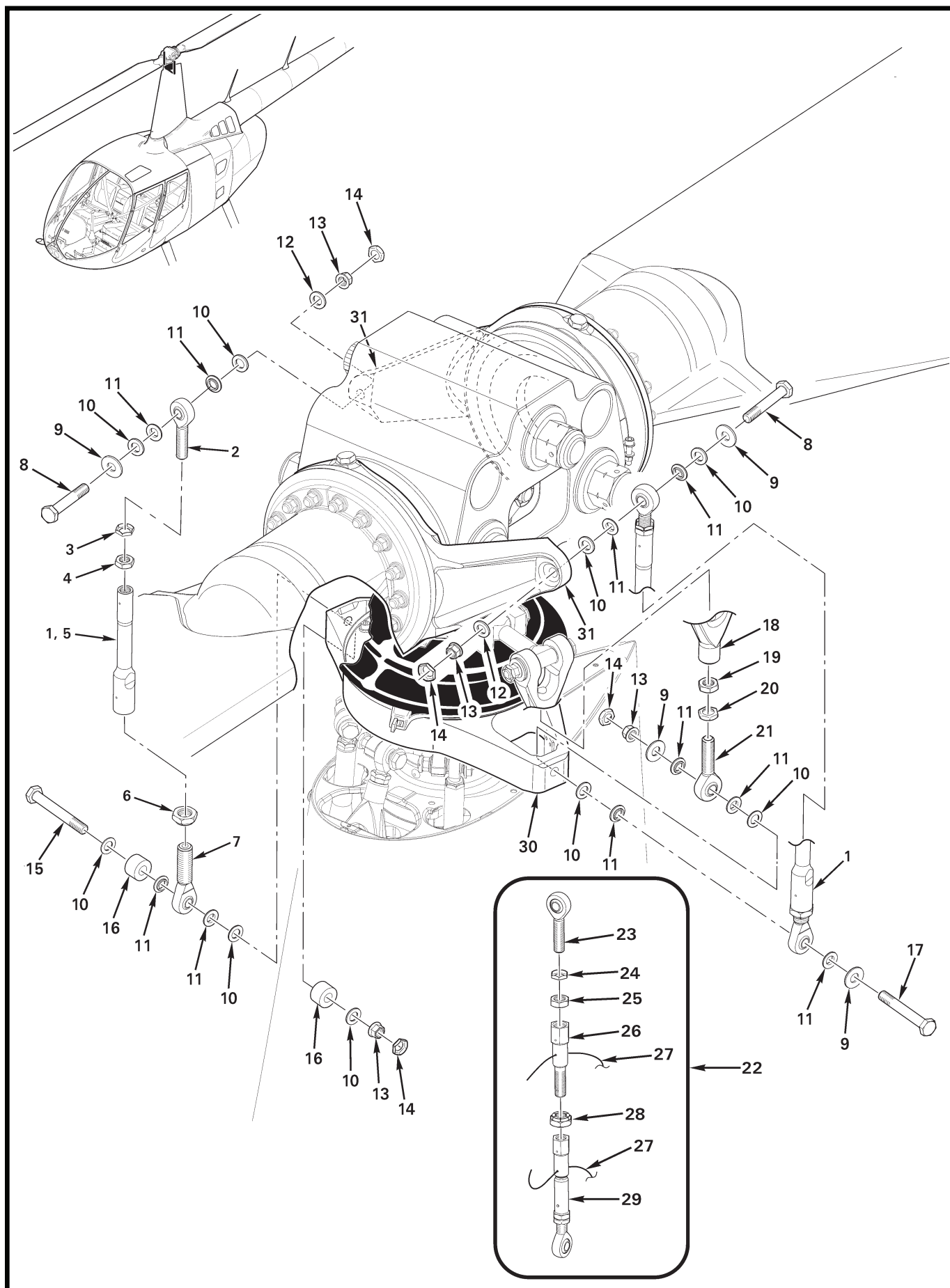


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C258-5 & C258-1 PITCH LINK INSTALLATION*		
67-43D-1	C258-5*	Pitch Link Assembly (incl items 2 thru 7)	X	2
2	D173-3**	Rod End	X	2
3	B330-19	Stamped Nut	X	2
4	AN316-6R	Nut	X	2
5	C258-6	Barrel Assembly	X	2
6	21FKF-813	Nut (alternate part no. 27FKF-813)	X	2
7	D173-4**	Rod End	X	2
8	NAS6605-18	Bolt	X	2
9	C141-1	Washer	X	4
10	NAS1149F0532P	Washer	X	9
11	C115-1	Spacer	X	10
12	NAS1149F0563P	Washer	X	2
13	D210-5	Nut	X	4
14	B330-16	Stamped Nut	X	4
15	NAS6605-31	Bolt	X	1
16	A255-3	Counterweight	X	2
17	NAS6605-28	Bolt	X	1
18	A205-7	Fork Assembly (ref; includes items 19 thru 21. Install on interrupter-side swashplate ear)	X	1
19	AN316-6R	Nut	X	1
20	B330-19	Stamped Nut	X	1
21	D173-3***	Rod End	X	1
22	C258-1*	Pitch Link Assembly (incl items 23 thru 26, 28 & 29)	O	2
23	D173-3**	Rod End	X	2
24	B330-19	Stamped Nut	X	2
25	AN316-6R	Nut	X	2
26	C258-2	Fitting	X	2
27	MS20995C32	0.032 in. dia. safety wire	X	A/R
28	21FKF-813	Nut (alternate part no. 27FKF-813)	X	2
29	C258-4	Link Assembly	X	2
30	C017-6	Swashplate Assembly (ref)		
31	C157-3	Pitch Horn (ref)		
NOTES	* C258-5 & -1 Pitch Link Assemblies may be installed singly or in pairs; refer to R66 Service Letter SL-54. When no longer available, replace both with (2) C258-8 Pitch Link Assemblies per Figure 67-43B. ** Apply A257-2 or A257-22 oil to threads before installing in item 5. *** Apply B270-21 Protectant to threads before installing in item 18.			

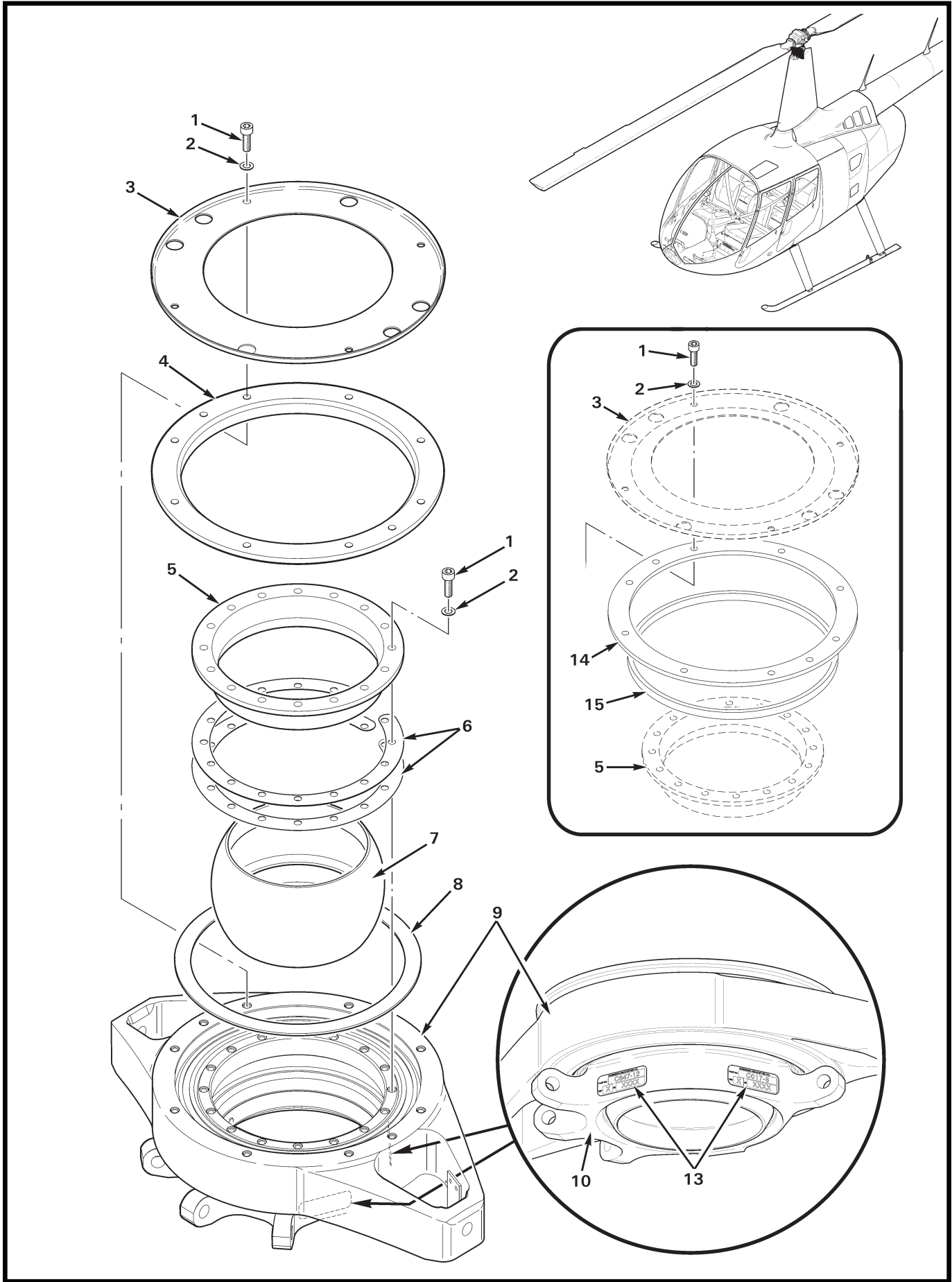
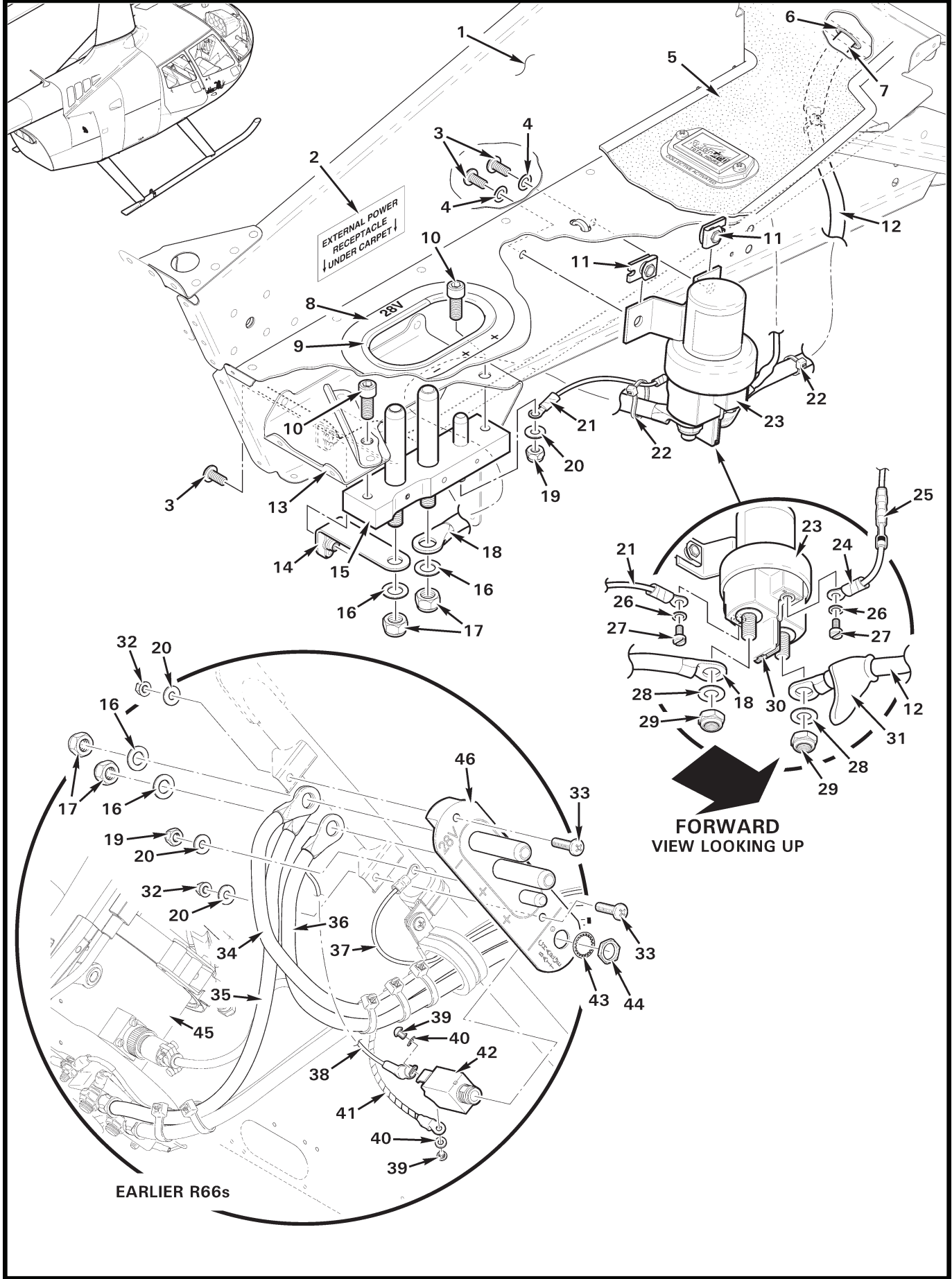


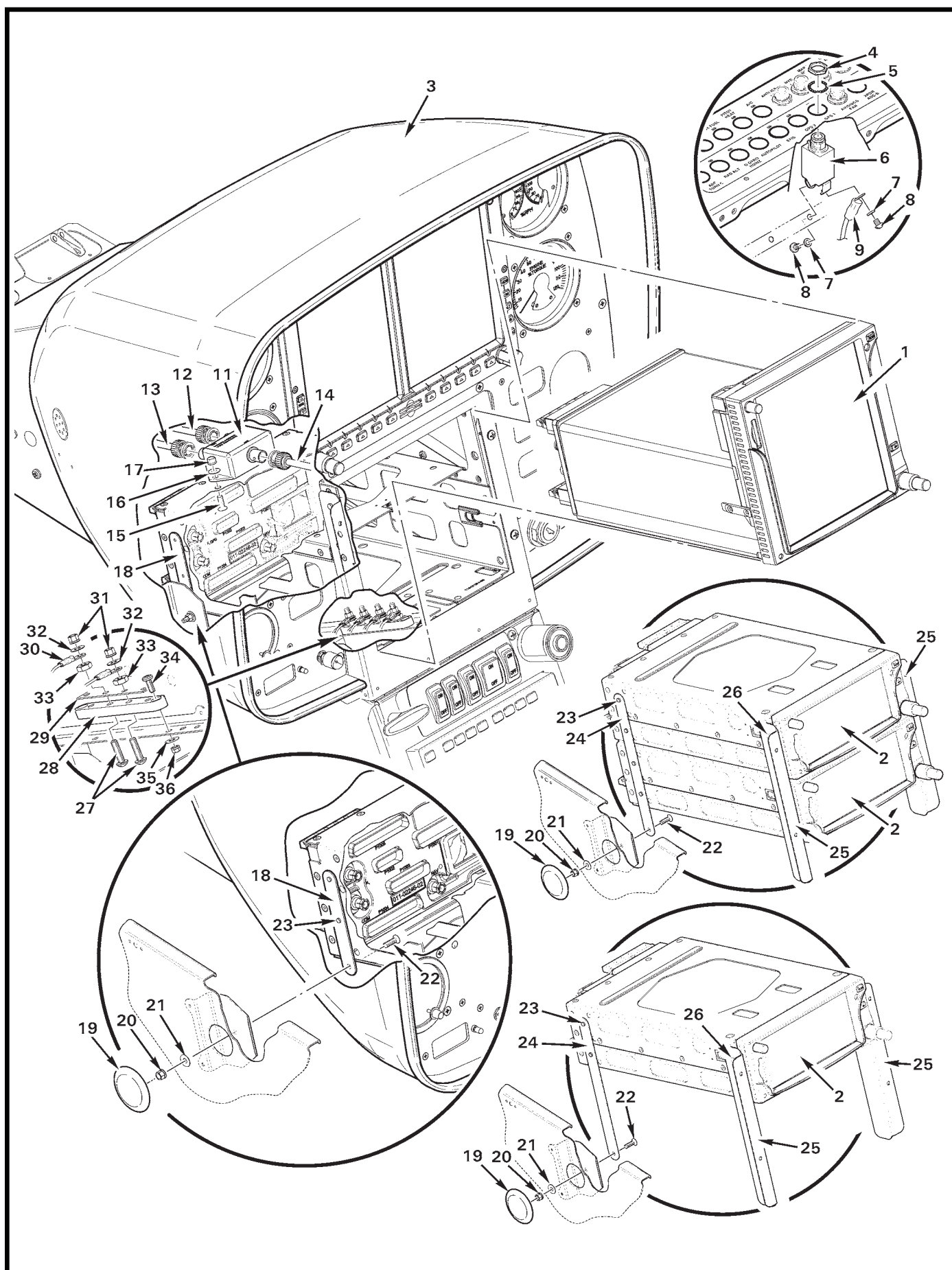
FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LITHIUM-ION BATTERY CIRCUIT BACK-UP BATTERIES		
96-11-1	—	Battery* (9-volt, alkaline)	O	2
2	—	Tray (9-volt battery)	O	2
3	-2830	Wire (ref)		
4	—	Wire (ref; jumper)		
5	-2831	Wire (ref)		
6	MS3367-4-9	Ty-Rap	X	A/R
7	TL-350	Tie	X	2
8	B266-4	Sleeving	X	A/R
9	B263-32	Housing	X	1
	B263-1	Pin	X	2
10	B263-33	Housing	X	1
	B263-2	Pin	X	2
11	F297-1	Support Assembly – Seat (ref, LH)		
12	MS20470AD4	Rivet	X	3
13	G468-1	Mount Assembly	X	1
14	F693-5	Case Assembly – Battery (incl items 1 thru 5, and 10)	X	1
15	MS24693-S4	Screw	X	2
16	MS35489-8	Grommet	X	1
17	MS21266-1N	Grommet (install using item 18; or A225-2 without adhesive)	X	A/R
18	B270-8qt	Adhesive	X	A/R
19	MS35206-228	Screw	X	2
20	D269-11	Plug	X	1
21	F693-1	Module Assembly (senses need for, and switches to backup battery)	X	1
22	F859-111	Wire (ref)		
	F859-129	Wire (ref)		
	F859-2001	Wire (ref)		
	-2828	Wire (ref)		
	-2829	Wire (ref)		
	-2830	Wire (ref)		
	-2832	Wire (ref)		
	-2833	Wire (ref)		
	-2834	Wire (ref)		
NOTES * Sourced locally, any manufacturer, conforming to ANSI/NEDA – 1604A, IEC – 6LR61, or IEC – 6LP3146.				



CHAPTER 97

AVIONICS

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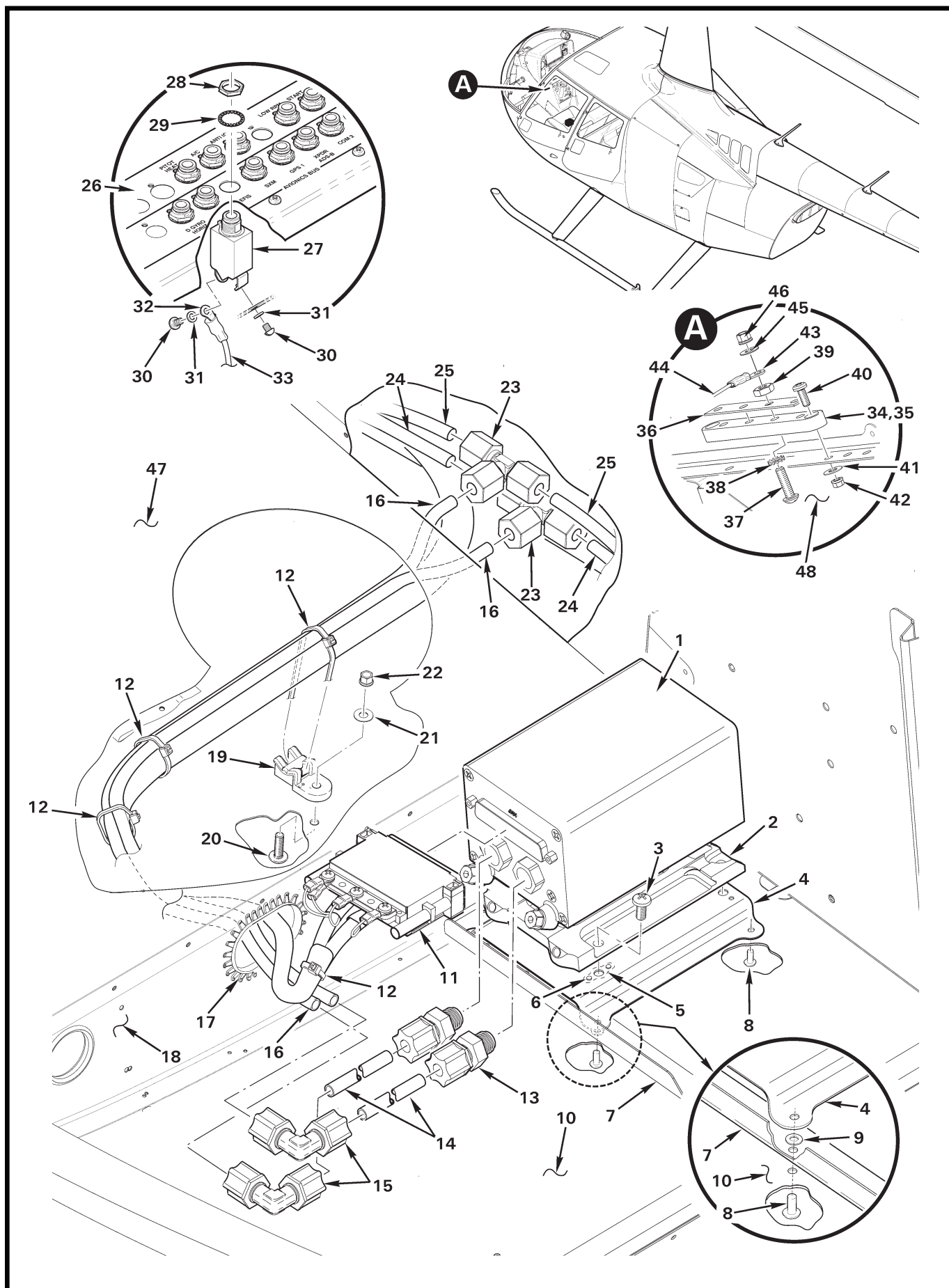


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN GSU 75H ADAHRS		
97-11B-1	GSU 75H*	ADAHRS Unit (011-03094-00*)	O	1
2	117-00608-00*	Rack (ref)		
3	MS27039C1-06	Screw	X	4
4	F950-9	Support Assembly (incl items 5 and 6)	X	1
5	MS21069L3	Nutplate	X	4
6	NAS1097AD3	Rivet	X	8
7	F950-19	Angle	X	1
8	MS20470AD4	Rivet	X	4
9	NAS620-5	Washer	X	A/R
10	F272-1	Chin (ref)		
11	011-3109-00*	Connector (ref)		
12	MS3367-4-9	Ty-Rap	X	A/R
13	10-4-2-N-O	Fitting	X	2
14	A729-26	Tube	X	2
15	50-4-N-O	Elbow	X	2
16	A729-22	Tube	X	2
17	A225-2	Grommet	X	A/R
18	G230-1	Bulkhead (ref)		
19	D268-1	Support	X	1
20	B526-8	Screw	X	1
21	NAS1149FN816P	Washer	X	1
22	MS21042L08	Nut	X	1
23	70-4-N-O	Tee	X	2
24	A729-6	Tube (Pitot, ref)		
25	A729-11	Tube (Static, ref)		
26	F490	Circuit Breaker Panel (-3 shown; ref)		
27	B297-2	Circuit Breaker (incl items 28 thru 31)	X	1
28	—	Nut	O	1
29	—	Lock Washer	O	1
30	—	Screw	O	2
31	—	Washer	O	2
32	B260-2	Terminal (ref)		
33	-2695	Wire (ref)		
34	C448-2	Block Assembly (incl items 35 thru 39)	X	1
35	C448-5	Block (4 holes)	X	1

NOTES * Garmin part no.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN GSU 75H ADAHRS (Cont'd)		
97-11B-36	A448-10	Bus Bar (4 holes)	X	1
37	B567-43	Screw	X	4
38	91120A130	Washer	X	4
39	B301-8	Nut	X	4
40	MS35206-228	Screw	X	2
41	NAS1149FN616P	Washer	X	2
42	MS21042L06	Nut	X	2
43	B260-3	Terminal (ref)		
44	-2589	Wire (ref)		
45	NAS1149FN816P	Washer	X	1
46	MS21042L08	Nut	X	1
47	F232-1	Floor (ref)		
48	F359-2	Panel (ref)		
NOTES				

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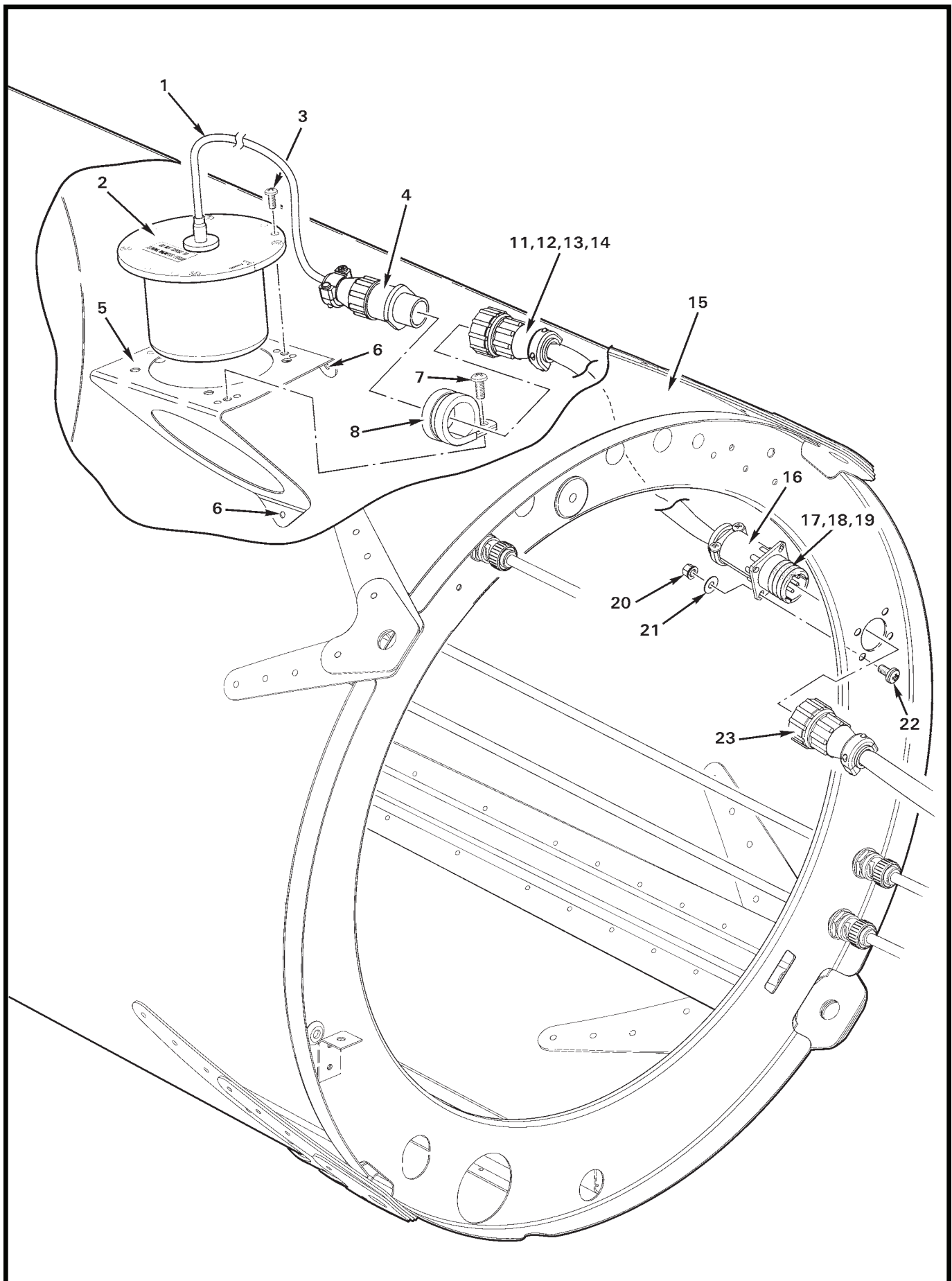


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN G500H EFIS – GMU 44 MAGNETOMETER		
97-13-1	—	Cable (Ref)	O	1
2	GMU 44	Magnetometer (Incl items 1 and 4)	X	1
3	MS27039C0807	Screw	X	3
4	—	Connector (Ref)		
5	F950-4	Bracket Assembly (includes nutplates)	X	1
6	MS20470AD4	Rivet	X	3
7	MS27039C0806	Screw	X	1
8	MS21919WDG12	Clamp	X	1
9	F951-1	Harness Assembly (Incl items 10 thru 14, 16 thru 19, and wires, assembled)	X	1
10	206485-1	Plug	X	1
11	206358-5	Backshell	X	1
12	205090-1	Socket	X	7
13	B267-3	Terminator (not shown)	X	2
14	B158-6	Heat Shrink	X	A/R
15	C023	Tailcone Assembly (Ref)		
16	206358-5	Backshell	X	1
17	205089-1	Pin (not shown)	X	7
18	B267-3	Terminator (not shown)	X	2
19	B158-6	Heat Shrink (not shown)	X	A/R
20	—	Nut (Ref)		
21	—	Washer (Ref)		
22	—	Screw (Ref)		
23	—	Connector (Ref, backshell/socket)		
NOTES				

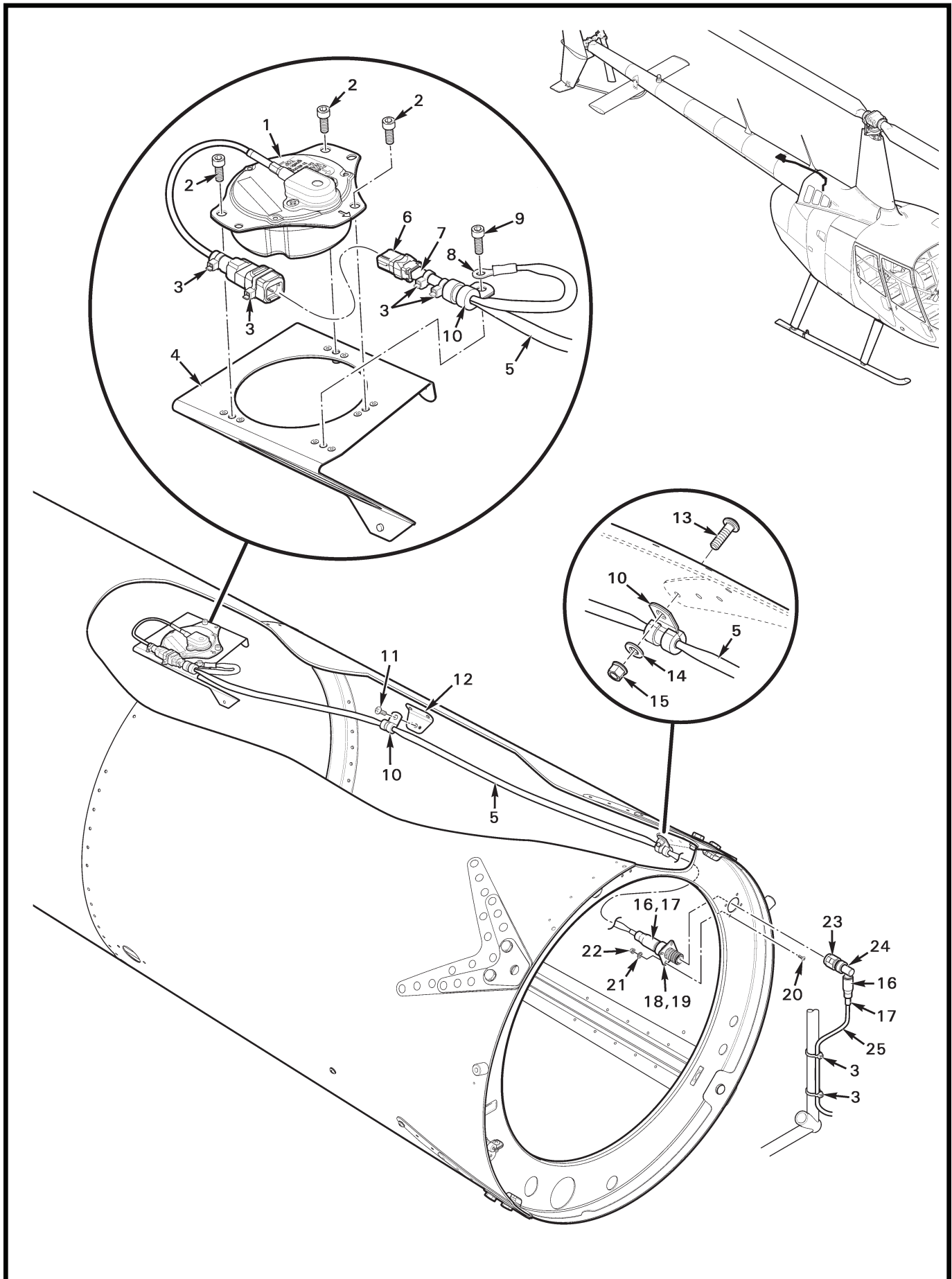


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN GMU 44B MAGNETOMETER		
97-13B-1	GMU 44B*	Magnetometer	O	1
2	NAS1352C06-6	Screw	X	3
3	MS3367-4-9	Ty-Rap	X	A/R
4	F950-20	Bracket Assembly (ref; see Figure 53-17 or 53-21)		
5	F951-5	Harness Assembly (incl items 6, 7, 8, 16 thru 19)	X	1
6	D269-6	Receptacle (incl [6] M39029/57-354 sockets)	X	1
7	D269-22	Backshell	X	1
8	B260-3	Terminal	X	1
9	NAS1352C08-8	Screw	X	1
10	MS21919WDG3	Clamp	X	3
11	MS27039C0806	Screw	X	1
12	F950-15	Angle Assembly (ref; see Figure 53-17 or 53-21)		
13	MS27039C0808	Screw	X	1
14	NAS1149FN816P	Washer	X	1
15	MS21042L08	Nut	X	1
16	202D121-25/225	Boot	X	2
17	B158-6	Heat Shrink	X	A/R
18	D38999/20WA35PN	Receptacle	O	1
19	91H1-09-04-1-B-HE050	Backshell	O	1
20	MS23506-215	Screw	X	4
21	NAS1149FN416P	Washer	X	4
22	MS21042L04	Nut	X	4
23	D38999/26WA35SN	Plug	O	1
24	91H3-09-04-1-B-HE050	Backshell	O	1
25	F951-4	Harness Assembly (with overbraid; incl. items 16, 17, 23 and 24)	X	1
	F951-3	Harness Assembly (without overbraid; incl. items 16, 17, 23 and 24)	X	1
NOTES * Garmin part no.				

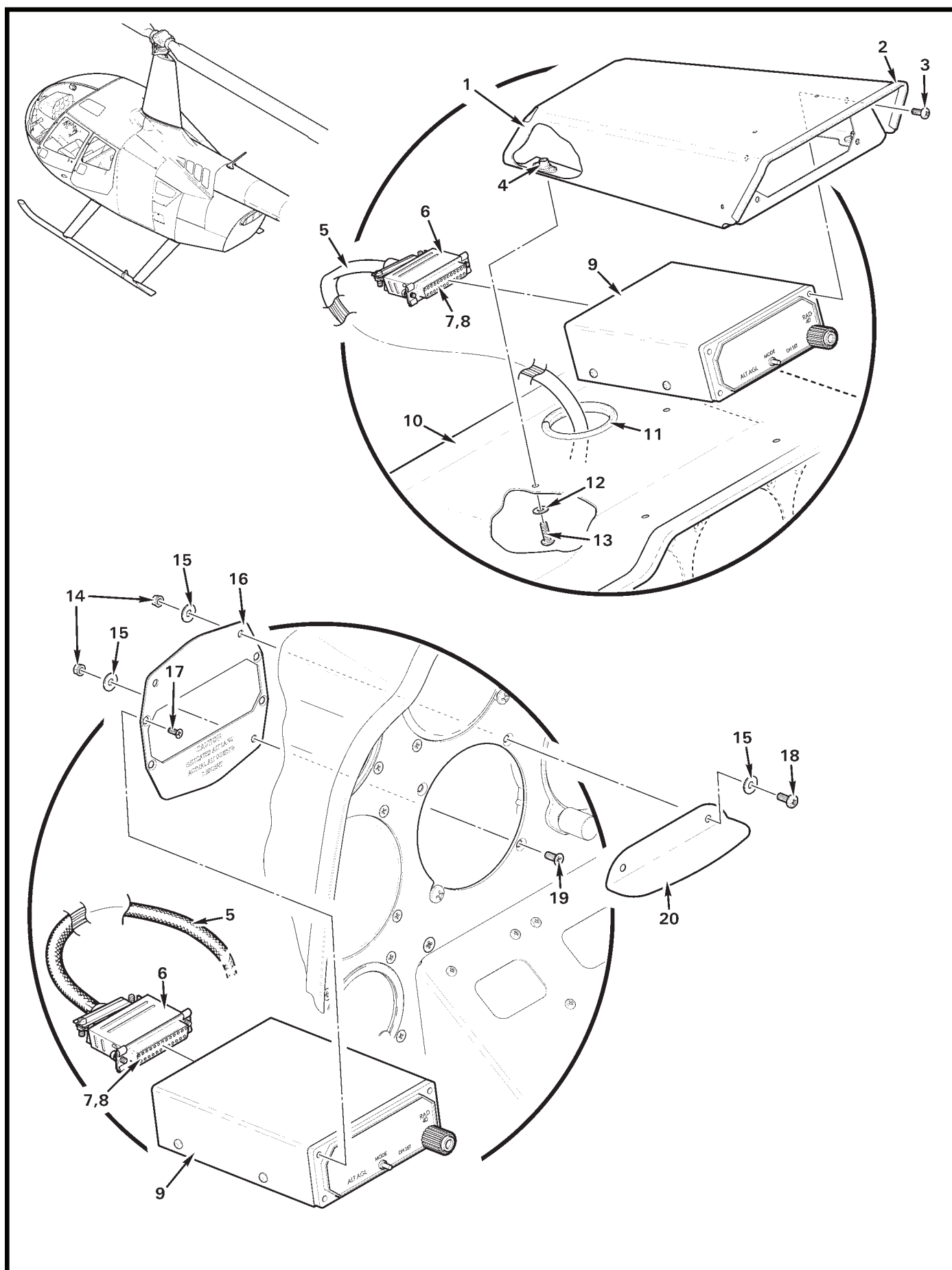


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		RADAR ALTIMETER INDICATOR – SEVEN/NINE-INSTRUMENT CONSOLE		
97-17-1	B560-1	Enclosure Assembly (Incl items 2 and 4)	X	1
2	A226-15	Trim	X	A/R
3	9-2804-068-10*	Screw	O	4
4	MS21069L08	Nutplate (Ref)		
5	B227-3	Lockwasher	X	1
6	B227-4	Dress Nut	X	1
7	B266-8	Sleeving	X	A/R
8	9-2190-188-20**	Hood	O	1
9	9-2190-188-10**	Connector	O	1
10	B158-2	Heat Shrink (around wires; not shown)	X	A/R
11	B263-13	Housing	X	1
	B263-2	Socket	X	2
12	B049-9	Wire Harness Assembly (Incl items 13 thru 15)	X	1
13	B263-12	Housing	X	1
	B263-1	Pin	X	2
14	B158-1	Heat Shrink	X	A/R
15	B300-1	Switch Assembly (Incl items 5 and 6)	X	1
16	B051	Console Assembly (Ref)		
17	NAS557-24A	Grommet	X	1
18	RAD-40	Indicator Assembly	X	1
19	NAS1149FN832P	Washer	X	4
20	MS27039C0807	Screw	X	4
21	MS21042L06	Nut	X	2
22	NAS1149FN632P	Washer	X	5
23	A590-4	Plate	X	1
24	MS24693-S3	Screw	X	4
25	MS24693-S26	Screw	X	1
26	B421-1	Visor Assembly (Incl items 28 and 29)	X	1
27	MS35206-229	Screw	X	2
28	C654-46	Decal	X	1
29	A226-9	Trim	X	A/R
NOTES * Above-console location. ** Free-Flight Systems part no.				

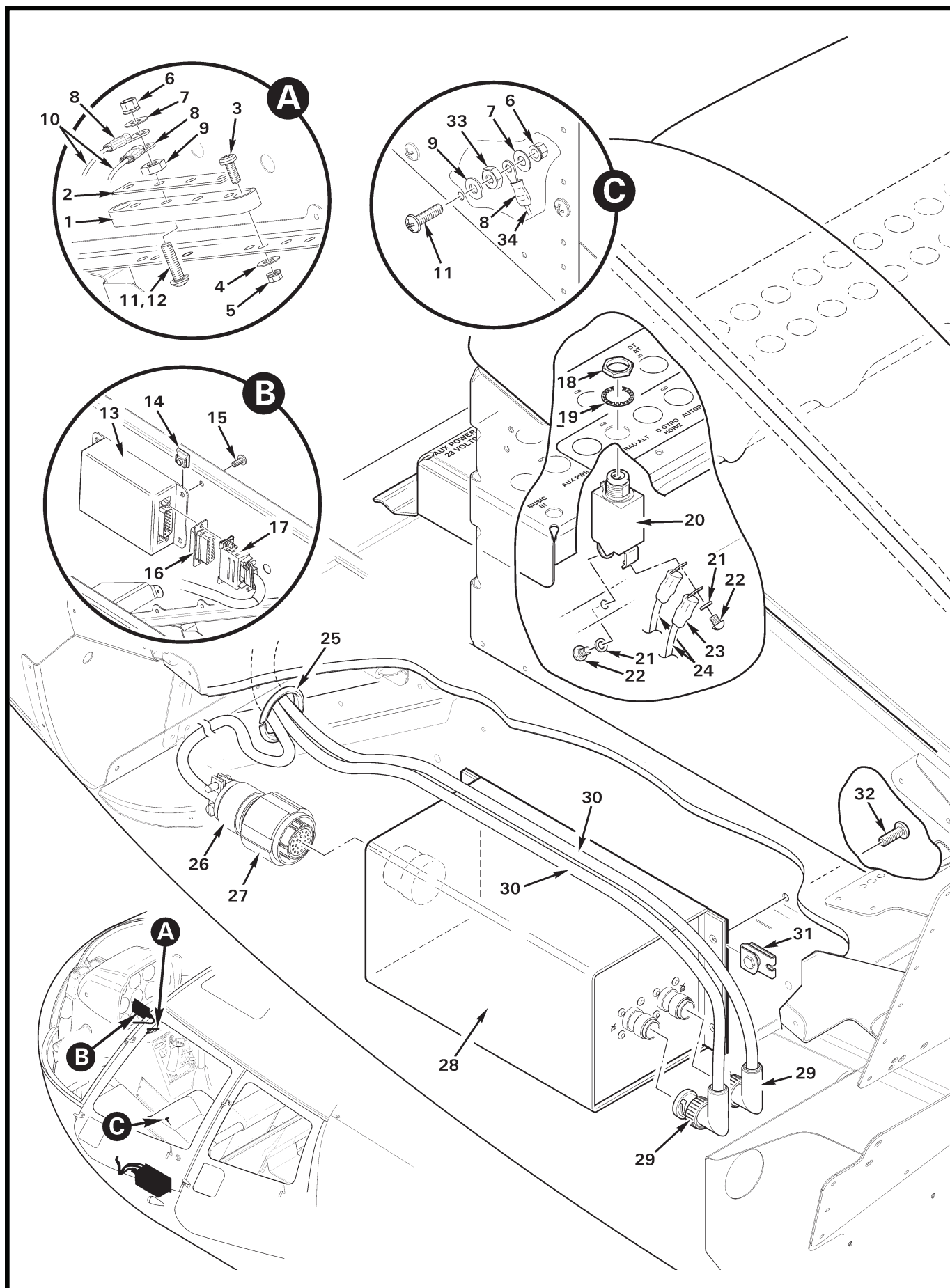


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FREEFLIGHT RA4000/4500 RADAR ALTIMETER INSTALLATION*		
97-19-1	C448-2	Terminal Block Assembly (includes C448-5 block, and items 2, 9, 11, and 12)	X	1
	C448-5	Block (ref)		
2	A448-10	Bus Bar	X	1
3	MS35206-228	Screw	X	2
4	NAS1149FN616P	Washer	X	2
5	MS21042L06	Nut	X	2
6	MS21042L08	Nut	X	4
7	NAS1149FN816P	Washer	X	4
8	B260-3	Terminal	X	A/R
9	B301-8	Nut	X	4
10	-1331, -2438	Wire (ref)		
11	B567-43	Screw (install using item 12 under head)	X	4
12	B270-9	Adhesive	X	A/R
13	85601-00	Tone Generator (ATG-410)	X	1
14	B162-2	Clipnut	X	4
15	MS27039C0805	Screw	X	4
16	B269-8	Receptacle	X	1
17	B269-22	Backshell	X	1
18	—	Nut	X	1
19	—	Lockwasher	X	1
20	B297-2	Circuit Breaker (2 amp; includes items 18, 19, 21 and 22) .	X	1
21	—	Washer	X	1
22	—	Screw	X	2
23	B260-2	Terminal	X	2
24	-1558, -2727	Wire (ref)		
25	NAS557-14A	Grommet	X	1
26	M85049/38-13N	Backshell	X	1
27	D38999/26FC35SN	Plug (TSV06RF-13-35S)	X	1
28	RA-4500	Radar Altimeter	X	1
29	5225554-6	Plug (90° TNC)	X	2
30	—	Antenna Cable (ref)		
31	B162-3	Clipnut	X	4
32	MS27039C0807	Screw	X	4
33	NAS1149DN832H	Washer	X	1
34	-2728	Wire (ref, ground for item 28)		

NOTES * See Figure 6-41 for Radar Altimeter Antenna Installation (FreeFlight RA4000/4500).

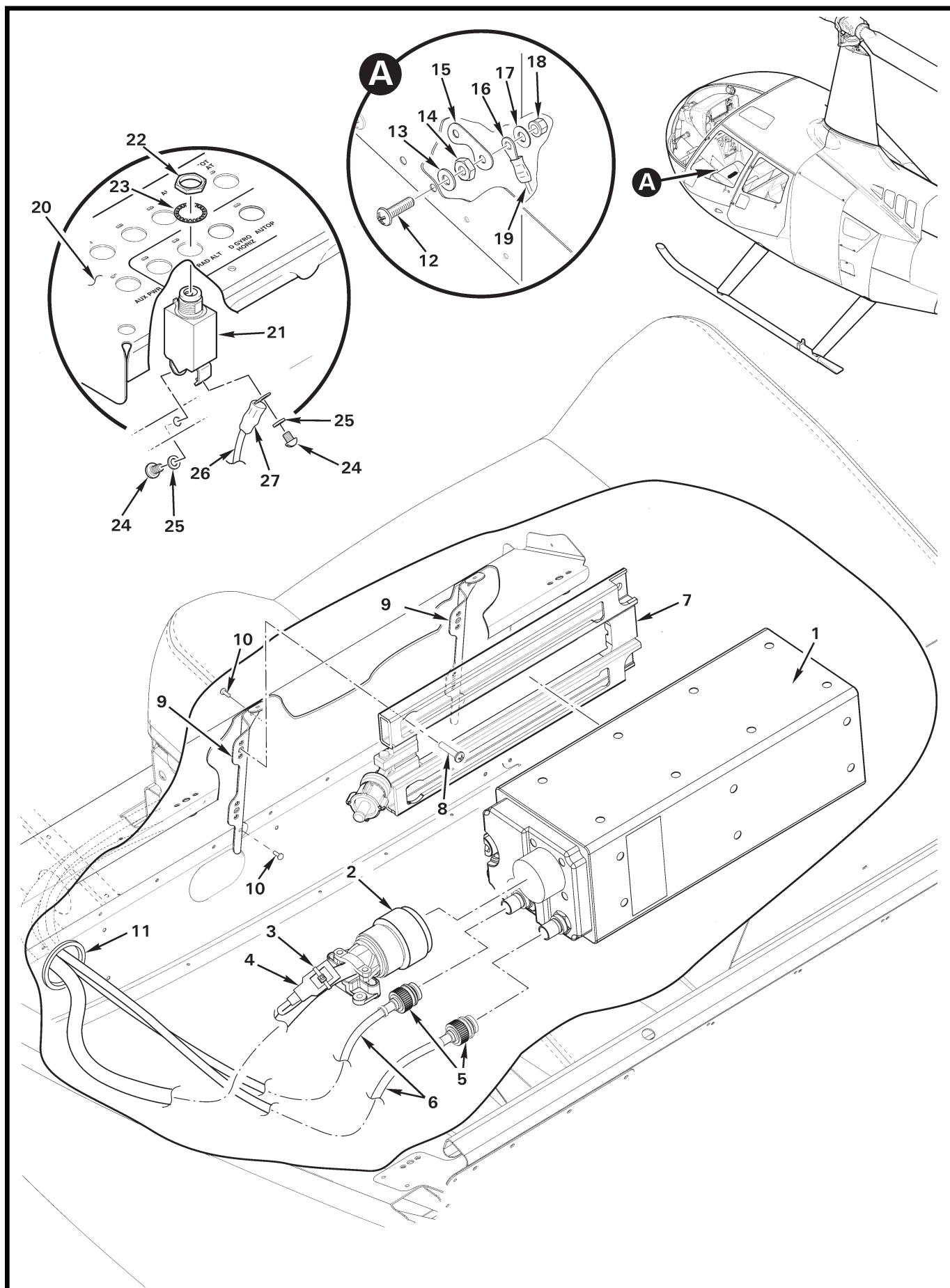


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN GRA 55 RADAR ALTIMETER INSTALLATION*		
97-19B-1	GRA 55**	Radar Altimeter (010-00946-05**)	O	1
2	D38999/26ME35SA	Plug	O	1
3	MS3367-4-9	Ty-Rap	X	A/R
4	011-0258-00**	Config Module	O	1
5	D261-121	Plug	X	2
6	B274-518*	Cable (Antenna Coax; ref)		
7	011-02567-00**	Mounting Rack	O	1
8	MS27039C0807	Screw	X	4
9	F950-22	Mount Assembly	O	2
10	MS20470AD4	Rivet	X	6
11	NAS557-16A	Grommet	X	1
12	B576-43	Screw	X	2
13	NAS1149DN832H	Washer	X	2
14	B301-8	Nut	X	2
15	A448-3	Bus Bar	X	1
16	B260-3	Terminal	X	1
17	NAS1149FN816P	Washer	X	2
18	MS21042L08	Nut	X	2
19	-2728	Wire (ref)		
20	F490	Circuit Breaker Panel (-3 shown; ref)		
21	B297-2	Circuit Breaker (2 amp; includes items 22 thru 25)	X	1
22	—	Nut	O	1
23	—	Lockwasher	O	1
24	—	Screw	O	2
25	—	Washer	O	2
26	-2727	Wire (ref)		
27	B260-2	Terminal	X	1
NOTES * See Figure 6-41B for Radar Altimeter Antenna Installation (Garmin GRA 55). ** Garmin part no.				

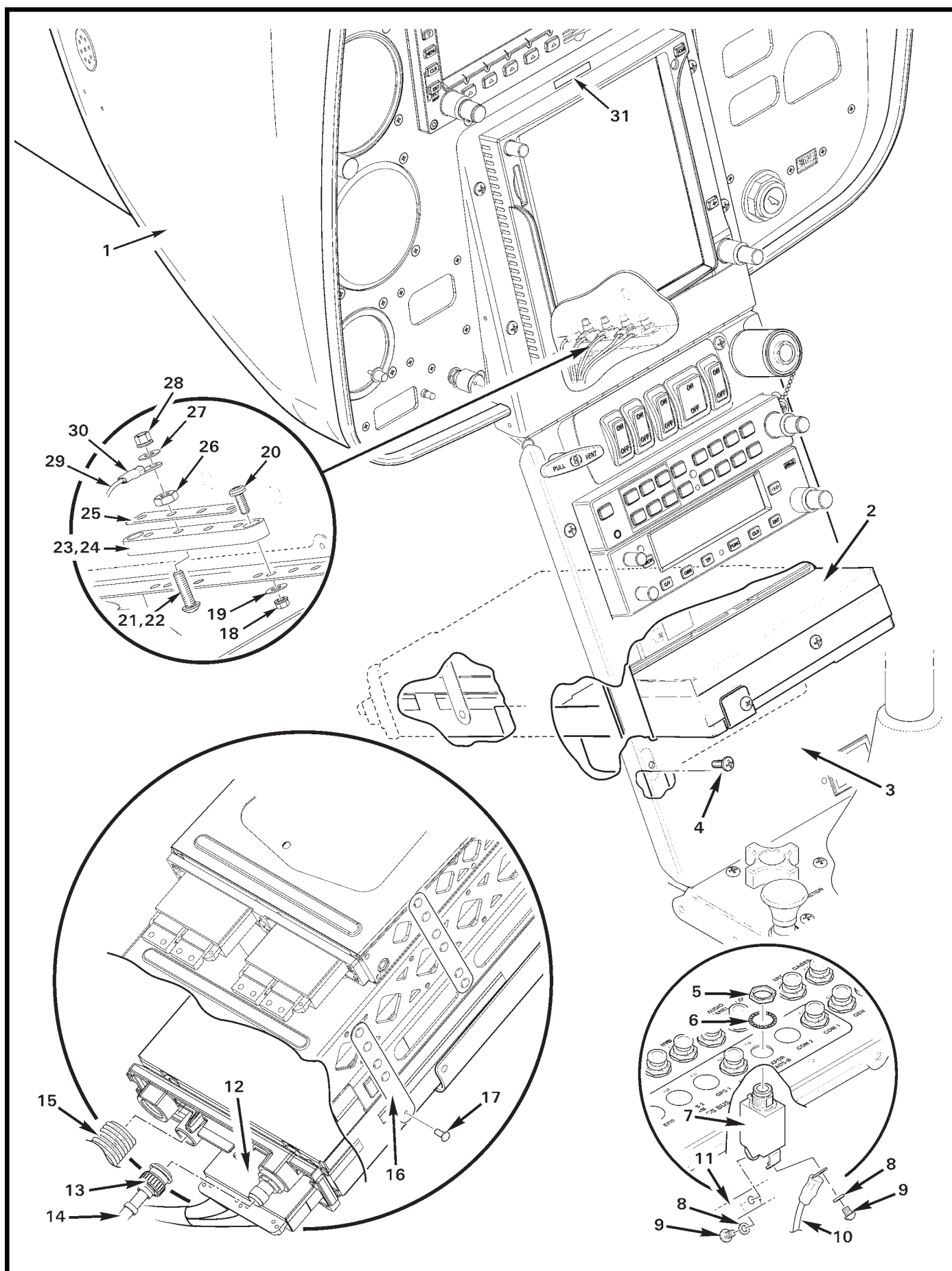


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN GTX 33 TRANSPONDER INSTALLATION		
97-21-1	G060	Console Assembly (Ref)		
2	GTX 33*	Transponder (Incl item 12)	X	1
3	F640	Face Assembly (Ref)		
4	MS27039C0807	Screw	X	5
5	—	Nut	O	2
6	—	Lockwasher	O	2
7	B297-5	Circuit Breaker (5 amp; includes 5, 6, 8 and 9)	X	1
8	—	Washer	O	1
9	—	Screw	O	2
10	-263	Wire (Ref; power to transponder)		
11	A448	Bus Bar (Ref)		
12	011-00582-00	Installation Kit	O	1
13	225973	90° BNC (Ref)		
14	F850-452	Antenna Cable (Ref)		
15	5399K17	Hose (Ref)		
16	A684-1	Strap	X	2
17	NAS1097AD3	Rivet	X	8
18	MS21042L06	Nut	X	2
19	NAS620-6	Washer	X	2
20	MS35206-228	Screw	X	2
21	B567-43	Screw (install using item 22 under head)	X	4
22	B270-9	Adhesive	X	A/R
23	C448-2	Block Assembly (Incl items 21, 22, and 24 thru 26)	X	1
24	C448-5	Block (Ref)		
25	A448-10	Bus Bar	X	1
26	B301-8	Nut	X	4
27	NAS1149FN816P	Washer	X	4
28	MS21042L08	Nut	X	4
29	-260	Wire (Ref)		
30	B260-3	Terminal	X	A/R
31	F654-37	Decal – “ADS-B OUT INSTALLED” (installed below GTN unit)	X	1
NOTES * Garmin part no.				

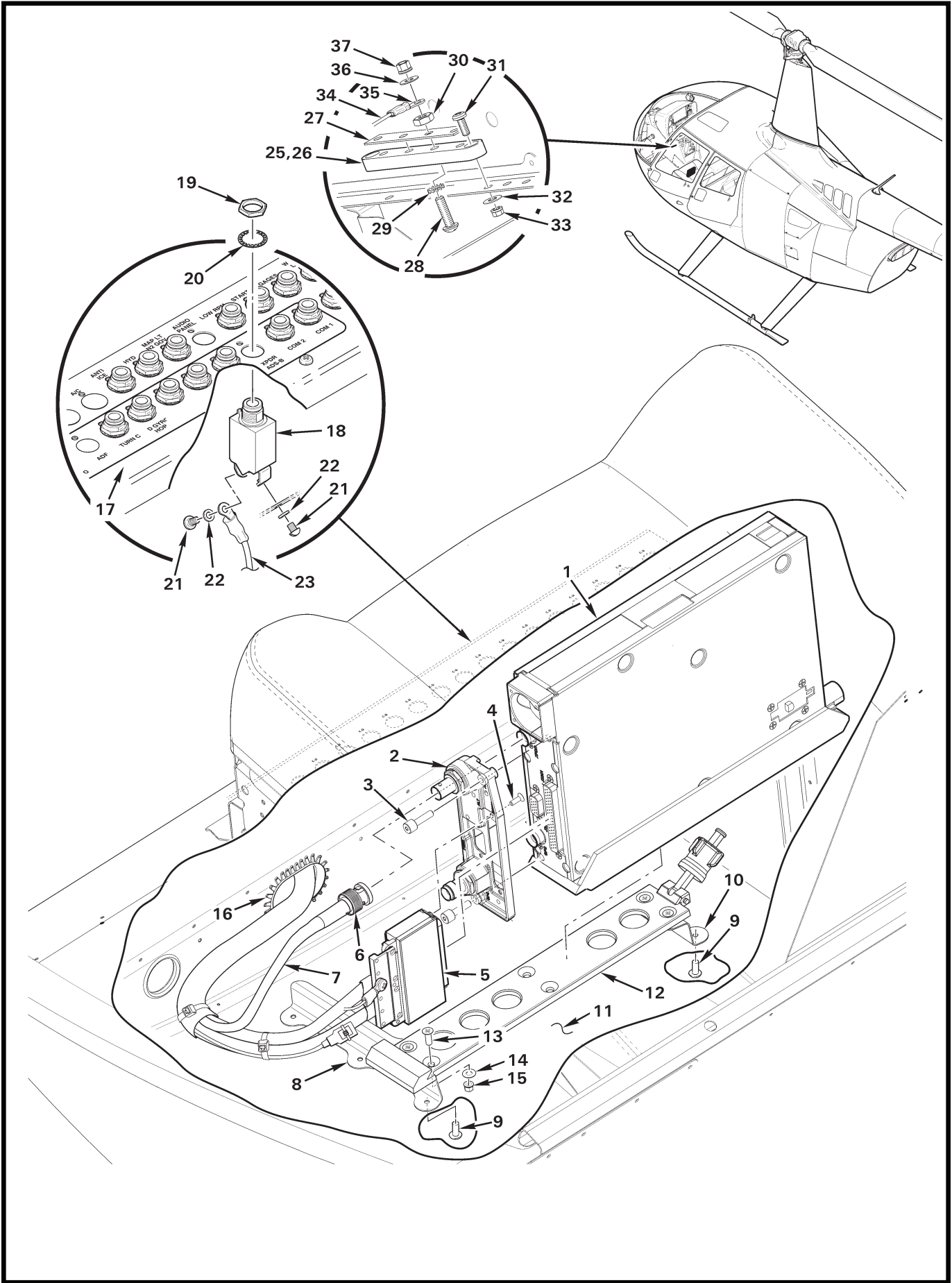
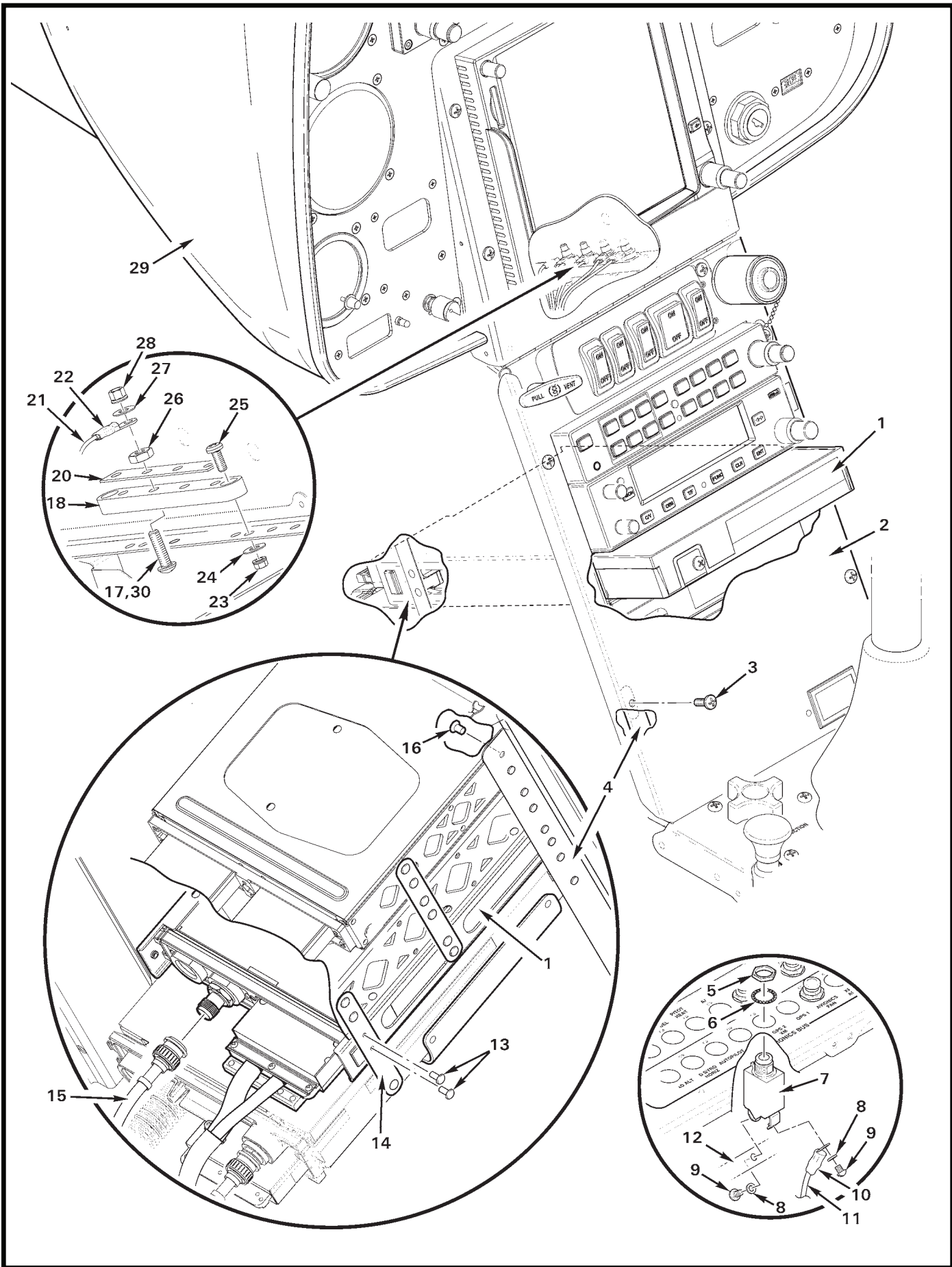


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GARMIN GTX 345R TRANSPONDER INSTALLATION*		
97-21B-1	GTX 345R**	Transponder Assembly (011-03303-00** or 011-03303-01**; includes items 2 thru 5)	O	1
2	—	Backplate (ref)		
3	—	Screw (ref)		
4	—	Screw (ref)		
5	—	Harness Connector (ref)		
6	D261-101	Plug (BNC; alternate part number 5225395-6)	X	1
7	B274-518	Cable (Antenna Coax)	X	A/R
8	C904-7	Support	X	1
9	MS20470AD4	Rivet	X	5
10	C904-6	Support	X	1
11	F272-1	Chin (ref)		
12	011-03762-00*	Mount (ref)		
13	MS24694-S4	Screw	X	4
14	NAS1149FN816P	Washer	X	4
15	MS21042L08	Nut	X	4
16	A225-2	Grommet	X	A/R
17	F490	Circuit Breaker Panel (-3 shown; ref)		
18	B297-3	Circuit Breaker (3 amp; includes items 19 thru 22)	X	1
19	—	Nut	O	1
20	—	Lockwasher	O	1
21	—	Screw	O	2
22	—	Washer	O	2
23	F859-263	Wire (ref)		
24	B260-2	Terminal (ref)		
25	C448-2	Block Assembly (includes items 26 thru 30)	X	1
26	C448-5	Block	X	1
27	A448-10	Bus Bar	X	1
28	B567-43	Screw	X	4
29	91120A130	Washer	X	4
30	B301-8	Nut	X	4
31	MS35206-228	Screw	X	2
32	NAS1149FN616P	Washer	X	2
33	MS21042L06	Nut	X	2
34	-260	Wire (ref)		
NOTES * See Figure 6-19 for Transponder Antenna Installation. ** Garmin part no.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
97-21B-35		GARMIN GTX 345R TRANSPONDER INSTALLATION (Cont'd)		
	B260-3	Terminal (ref)		
	36 NAS1149FN816P	Washer	X	1
	37 MS21042L08	Nut	X	1
NOTES				

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REVISION LOG

AUG 2026

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i	AUG 2026	6.7	SEP 2018	6.40	AUG 2026
ii	AUG 2026	6.8	SEP 2018	6.41	AUG 2026
iii	JAN 2023	6.9	SEP 2018	6.41A	AUG 2026
iv	JAN 2023	6.10	SEP 2018	6.41B	AUG 2026
v	JAN 2023	6.11	SEP 2018	6.42	SEP 2018
vi	JAN 2023	6.12	SEP 2018	6.43	SEP 2018
vii	MAR 2025	6.13	SEP 2018	6.44	SEP 2018
viii	MAR 2025	6.14	SEP 2018		
ix	AUG 2026	6.15	SEP 2018	8.i	SEP 2023
x	AUG 2026	6.16	SEP 2018	8.0	SEP 2023
xi	AUG 2026	6.17	SEP 2018	8.1	SEP 2023
xii	AUG 2026	6.18	SEP 2018	8.2	SEP 2023
xiii	JAN 2023	6.19	SEP 2018		
xiv	JAN 2023	6.20	SEP 2018	9.i	SEP 2020
xv	JAN 2023	6.21	SEP 2018	9.0	SEP 2020
xvi	JAN 2023	6.22	SEP 2018	9.1	SEP 2020
xvii	JAN 2023	6.23	SEP 2018	9.2	SEP 2020
xviii	JAN 2023	6.24	SEP 2018	9.3	SEP 2020
xix	JAN 2023	6.25	SEP 2018	9.3A	SEP 2020
xx	JAN 2023	6.26	SEP 2018	9.3B	SEP 2020
xxi	JAN 2023	6.27	SEP 2018	9.4	SEP 2020
xxii	JAN 2023	6.28	SEP 2018	9.5	SEP 2020
		6.29	SEP 2018	9.6	SEP 2020
6.i	AUG 2026	6.30	SEP 2018	9.7	SEP 2020
6.0	SEP 2018	6.31	SEP 2018	9.7A	SEP 2020
6.1	SEP 2018	6.32	SEP 2018	9.7B	SEP 2020
6.2	SEP 2018	6.33	SEP 2018	9.7C	SEP 2020
6.3	JAN 2023	6.34	SEP 2018	9.7D	SEP 2020
6.4	JAN 2023	6.35	SEP 2018	9.8	SEP 2020
6.5	JAN 2023	6.36	SEP 2018	9.9	SEP 2020
6.5A	JAN 2023	6.37	SEP 2018	9.10	SEP 2020
6.5B	JAN 2023	6.38	SEP 2018		
6.6	JAN 2023	6.39	SEP 2018	10.i	JAN 2023

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10.0	JAN 2023	11.23	JAN 2023	21.19	SEP 2018
10.1	JAN 2023	11.24	JAN 2023	21.20	SEP 2018
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10.4	25 OCT 2010	12.1	SEP 2018	21.23	SEP 2012
10.5	SEP 2018	12.2	SEP 2018	21.24	SEP 2012
10.6	SEP 2018	12.3	SEP 2018	21.25	JAN 2023
10.7	MAY 2015	12.4	SEP 2018	21.26	JAN 2023
10.8	MAY 2015			21.27	JAN 2023
10.9	JAN 2023	18.i	25 OCT 2010	21.28	JAN 2023
10.10	JAN 2023	18.0	25 OCT 2010	21.29	SEP 2012
10.11	JAN 2023	18.1	25 OCT 2010	21.30	SEP 2012
10.12	JAN 2023	18.2	25 OCT 2010	21.31	SEP 2012
		18.3	25 OCT 2010	21.32	SEP 2012
		18.4	25 OCT 2010	21.33	SEP 2012
11.i	JAN 2023			21.34	SEP 2012
11.0	JAN 2023	21.i	JAN 2023	21.35	SEP 2018
11.1	JAN 2023	21.0	JAN 2023	21.36	SEP 2018
11.2	JAN 2023	21.1	JAN 2023	21.37	MAY 2015
11.3	JAN 2023	21.2	JAN 2023	21.38	MAY 2015
11.4	JAN 2023	21.3	JAN 2023	21.39	SEP 2018
11.5	JAN 2023	21.4	JAN 2023	21.40	SEP 2018
11.6	JAN 2023	21.5	SEP 2018		
11.7	JAN 2023	21.6	SEP 2018	22.i	AUG 2026
11.8	JAN 2023	21.7	SEP 2018	22.0	AUG 2026
11.9	JAN 2023	21.8	SEP 2018	22.1	AUG 2026
11.10	JAN 2023	21.9	JAN 2023	22.2	AUG 2026
11.11	JAN 2023	21.10	JAN 2023	22.3	AUG 2026
11.12	JAN 2023	21.11	JAN 2023	22.4	AUG 2026
11.13	JAN 2023	21.11A	JAN 2023	22.5	AUG 2026
11.14	JAN 2023	21.11B	JAN 2023	22.6	AUG 2026
11.15	JAN 2023	21.12	JAN 2023	22.7	AUG 2026
11.16	JAN 2023	21.13	JAN 2023	22.8	AUG 2026
11.17	JAN 2023	21.14	JAN 2023	22.9	AUG 2026
11.18	JAN 2023	21.15	JAN 2023	22.10	AUG 2026
11.19	JAN 2023	21.16	JAN 2023	22.11	AUG 2026
11.20	JAN 2023	21.17	SEP 2018	22.12	AUG 2026
11.21	JAN 2023	21.18	SEP 2018	22.13	AUG 2026
11.22	JAN 2023				

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22.14	AUG 2026	25.23	SEP 2018	28.10	SEP 2020
22.15	AUG 2026	25.24	SEP 2018	28.11	JAN 2023
22.16	AUG 2026	25.25	SEP 2018	28.12	JAN 2023
22.17	AUG 2026	25.26	SEP 2018	28.13	JAN 2023
22.18	AUG 2026	25.27	SEP 2018	28.14	JAN 2023
22.19	AUG 2026	25.28	SEP 2018	28.15	SEP 2020
22.20	AUG 2026	25.29	SEP 2018	28.16	SEP 2020
22.21	AUG 2026	25.30	SEP 2018	28.17	JAN 2023
22.22	AUG 2026	25.31	SEP 2018	28.18	JAN 2023
22.23	AUG 2026	25.32	SEP 2018	28.19	JAN 2023
22.24	AUG 2026	25.33	SEP 2018	28.20	JAN 2023
		25.34	SEP 2018	28.21	JAN 2023
25.i	AUG 2026	25.35	SEP 2018	28.22	JAN 2023
25.0	AUG 2026	25.36	SEP 2018	28.23	SEP 2020
25.1	JAN 2023	25.37	SEP 2018	28.24	SEP 2020
25.2	JAN 2023	25.38	SEP 2018	28.25	JAN 2023
25.3	SEP 2018	25.39	SEP 2018	28.26	JAN 2023
25.4	SEP 2018	25.40	SEP 2018	28.27	JAN 2023
25.5	SEP 2018	25.41	SEP 2018	28.28	JAN 2023
25.6	SEP 2018	25.42	SEP 2018	28.29	SEP 2020
25.7	MAY 2015	25.43	SEP 2018	28.30	SEP 2020
25.8	MAY 2015	25.44	SEP 2018	28.31	SEP 2020
25.9	SEP 2018	25.45	JAN 2023	28.32	SEP 2020
25.10	SEP 2018	25.46	JAN 2023	28.33	SEP 2020
25.11	SEP 2018	25.47	JAN 2023	28.34	SEP 2020
25.12	SEP 2018	25.48	JAN 2023	28.35	JAN 2023
25.13	JAN 2023			28.36	JAN 2023
25.14	JAN 2023	28.i	JAN 2023	28.37	AUG 2026
25.15	JAN 2023	28.0	JAN 2023	28.38	AUG 2026
25.16	JAN 2023	28.1	JAN 2023	28.39	JAN 2023
25.17	SEP 2020	28.2	JAN 2023	28.40	JAN 2023
25.18	SEP 2020	28.3	SEP 2018	28.41	JAN 2023
25.19	AUG 2026	28.4	SEP 2018	28.42	JAN 2023
25.19A	AUG 2026	28.5	SEP 2020	28.43	AUG 2026
25.19B	AUG 2026	28.6	SEP 2020	28.44	AUG 2026
25.20	AUG 2026	28.7	SEP 2020	28.45	AUG 2026
25.21	AUG 2026	28.8	SEP 2020	28.46	AUG 2026
25.22	AUG 2026	28.9	SEP 2020	28.47	JAN 2023

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28.48	JAN 2023	32.18	AUG 2026	52.10	JAN 2023
28.49	JAN 2023	32.19	AUG 2026	52.11	JAN 2023
28.50	JAN 2023	32.20	AUG 2026	52.12	JAN 2023
		32.21	AUG 2026	52.13	JAN 2023
29.i	MAY 2015	32.22	AUG 2026	52.14	JAN 2023
29.0	MAY 2015			52.15	SEP 2020
29.1	SEP 2018	33.i	SEP 2023	52.16	SEP 2020
29.2	SEP 2018	33.0	SEP 2023	52.17	SEP 2023
29.3	MAY 2015	33.1	JUN 2024	52.18	SEP 2023
29.4	MAY 2015	33.2	JUN 2024	52.19	JAN 2023
29.5	MAR 2025	33.3	JUN 2024	52.20	JAN 2023
29.6	MAR 2025	33.4	JUN 2024	52.21	SEP 2023
29.7	MAR 2025	33.5	SEP 2020	52.22	SEP 2023
29.8	MAR 2025	33.6	SEP 2020	52.23	SEP 2023
29.9	MAR 2025	33.7	SEP 2020	52.24	SEP 2023
29.10	MAR 2025	33.8	SEP 2020	52.25	SEP 2023
29.11	MAR 2025	33.9	SEP 2018	52.26	SEP 2023
29.12	MAR 2025	33.10	SEP 2018	52.27	SEP 2023
		33.11	MAY 2015	52.28	SEP 2023
32.i	AUG 2026	33.12	MAY 2015		
32.0	SEP 2020	33.13	MAY 2015	53.i	MAR 2025
32.1	SEP 2020	33.14	MAY 2015	53.0	MAR 2025
32.2	SEP 2020	33.15	SEP 2018	53.1	SEP 2023
32.3	MAY 2015	33.16	SEP 2018	53.1A	SEP 2023
32.4	MAY 2015			53.1B	SEP 2023
32.5	SEP 2018	52.i	SEP 2023	53.2	SEP 2023
32.6	SEP 2018	52.0	SEP 2023	53.3	SEP 2018
32.7	SEP 2018	52.1	SEP 2018	53.4	SEP 2018
32.8	SEP 2018	52.2	SEP 2018	53.5	MAR 2025
32.9	MAY 2015	52.3	JAN 2023	53.6	MAR 2025
32.10	MAY 2015	52.4	JAN 2023	53.7	MAR 2025
32.11	SEP 2018	52.5	JAN 2023	53.8	MAR 2025
32.12	SEP 2018	52.5A	JAN 2023	53.9	SEP 2012
32.13	MAY 2015	52.5B	JAN 2023	53.10	SEP 2012
32.14	MAY 2015	52.6	JAN 2023	53.11	MAR 2025
32.15	MAY 2015	52.7	SEP 2012	53.12	MAR 2025
32.16	MAY 2015	52.8	SEP 2012	53.13	MAR 2025
32.17	SEP 2020	52.9	JAN 2023	53.13A	MAR 2025

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53.13B	MAR 2025	63.1	AUG 2026	67.i	AUG 2026
53.14	MAR 2025	63.2	MAR 2025	67.0	AUG 2026
53.15	MAR 2025	63.3	SEP 2018	67.1	JAN 2023
53.16	MAR 2025	63.4	SEP 2018	67.2	JAN 2023
53.17	JUN 2024	63.5	MAR 2025	67.3	MAR 2025
53.18	JUN 2024	63.6	MAR 2025	67.4	MAR 2025
53.19	JUN 2024	63.7	SEP 2018	67.5	MAR 2025
53.20	JUN 2024	63.8	SEP 2018	67.6	MAR 2025
53.21	JUN 2024	63.9	SEP 2018	67.7	MAY 2015
53.22	JUN 2024	63.10	SEP 2018	67.8	MAY 2015
53.23	JUN 2024	63.11	SEP 2018	67.9	SEP 2018
53.23A	JUN 2024	63.12	SEP 2018	67.10	SEP 2018
53.23B	JUN 2024	63.13	JAN 2023	67.11	SEP 2018
53.24	JUN 2024	63.14	JAN 2023	67.12	SEP 2018
53.25	MAR 2025	63.15	JAN 2023	67.13	MAY 2015
53.26	MAR 2025	63.16	JAN 2023	67.14	MAY 2015
53.27	JUN 2024			67.15	MAY 2015
53.28	JUN 2024	64.i	JAN 2023	67.16	MAY 2015
53.29	MAR 2025	64.0	JAN 2023	67.17	MAY 2015
53.30	MAR 2025	64.1	JAN 2023	67.18	MAY 2015
53.31	JUN 2024	64.2	JAN 2023	67.19	MAY 2015
53.32	JUN 2024			67.20	MAY 2015
53.33	JUN 2024	65.i	SEP 2018	67.21	MAY 2015
53.34	JUN 2024	65.0	SEP 2018	67.22	MAY 2015
53.35	SEP 2023	65.1	JAN 2023	67.23	MAR 2025
53.36	SEP 2023	65.2	JAN 2023	67.24	MAR 2025
53.37	SEP 2023	65.3	JAN 2023	67.25	MAR 2025
53.38	SEP 2023	65.4	JAN 2023	67.26	MAR 2025
		65.5	JAN 2023	67.27	SEP 2023
62.i	SEP 2020	65.6	JAN 2023	67.28	SEP 2023
62.0	SEP 2020	65.7	JUN 2024	67.29	SEP 2023
62.1	JAN 2023	65.8	JUN 2024	67.29A	SEP 2023
62.2	JAN 2023	65.9	JUN 2024	67.29B	MAR 2025
62.3	SEP 2020	65.10	JUN 2024	67.30	MAR 2025
62.4	SEP 2020	65.11	MAY 2015	67.31	MAR 2025
		65.12	MAY 2015	67.32	MAR 2025
63.i	AUG 2026	65.13	SEP 2018	67.33	MAR 2025
63.0	AUG 2026	65.14	SEP 2018	67.33A	MAR 2025

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67.33B	JAN 2023	71.10	SEP 2018	79.1	SEP 2018
67.34	JAN 2023	71.11	SEP 2018	79.2	SEP 2018
67.35	SEP 2018	71.12	SEP 2018	79.3	JAN 2023
67.36	SEP 2018	71.13	SEP 2018	79.4	JAN 2023
67.37	MAY 2015	71.14	SEP 2018	79.5	JAN 2023
67.38	MAY 2015	71.15	SEP 2018	79.6	JAN 2023
67.39	AUG 2026	71.16	SEP 2018	79.7	SEP 2020
67.40	AUG 2026	71.17	SEP 2020	79.8	SEP 2020
67.41	AUG 2026	71.18	SEP 2020	79.9	SEP 2020
67.42	AUG 2026	71.19	SEP 2020	79.10	SEP 2020
67.43	AUG 2026	71.20	SEP 2020		
67.43A	AUG 2026	71.21	SEP 2018	90.i	SEP 2020
67.43B	AUG 2026	71.22	SEP 2018	90.ii	SEP 2020
67.43C	AUG 2026	71.23	SEP 2020	90.iii	SEP 2020
67.43D	AUG 2026	71.24	SEP 2020	90.iv	SEP 2020
67.44	AUG 2026	71.25	SEP 2020	90.v	SEP 2020
67.45	JAN 2023	71.26	SEP 2020	90.vi	SEP 2020
67.46	JAN 2023	71.27	SEP 2020	90.vii	SEP 2020
67.47	JAN 2023	71.28	SEP 2020	90.0	SEP 2020
67.48	JAN 2023			90.1	SEP 2020
		75.i	SEP 2012	90.2	SEP 2020
71.i	JAN 2023	75.0	SEP 2012	90.3	SEP 2020
71.0	JAN 2023	75.1	SEP 2012	90.4	SEP 2020
71.1	JAN 2023	75.2	SEP 2012	90.5	SEP 2020
71.2	JAN 2023			90.5A	SEP 2020
71.3	JAN 2023	76.i	JAN 2023	90.5B	SEP 2020
71.4	JAN 2023	76.0	JAN 2023	90.5C	SEP 2020
71.5	JAN 2023	76.1	JAN 2023	90.5D	SEP 2020
71.5A	JAN 2023	76.2	JAN 2023	90.6	SEP 2020
71.5B	JAN 2023	76.3	SEP 2012	90.7	SEP 2020
71.6	JAN 2023	76.4	SEP 2012	90.7A	SEP 2020
71.7	JAN 2023	76.5	SEP 2018	90.7B	SEP 2020
71.7A	JAN 2023	76.6	SEP 2018	90.7C	SEP 2020
71.7B	JAN 2023	76.7	SEP 2012	90.7D	SEP 2020
71.7C	JAN 2023	76.8	SEP 2012	90.8	SEP 2020
71.7D	JAN 2023			90.9	SEP 2018
71.8	JAN 2023	79.i	SEP 2012	90.10	SEP 2018
71.9	SEP 2018	79.0	SEP 2012	90.11	SEP 2018

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90.12	SEP 2018	90.45A	SEP 2020	90.72	SEP 2020
90.13	SEP 2018	90.45B	SEP 2020	90.73	SEP 2020
90.14	SEP 2018	90.45C	SEP 2020	90.74	SEP 2020
90.15	SEP 2018	90.45D	SEP 2020	90.75	SEP 2018
90.16	SEP 2018	90.46	SEP 2020	90.76	SEP 2018
90.17	SEP 2018	90.47	SEP 2020	90.77	SEP 2020
90.18	SEP 2018	90.48	SEP 2020	90.78	SEP 2020
90.19	SEP 2018	90.49	SEP 2020	90.79	SEP 2020
90.20	SEP 2018	90.50	SEP 2020	90.80	SEP 2020
90.21	SEP 2018	90.51	SEP 2020		
90.22	SEP 2018	90.52	SEP 2020	92.i	SEP 2018
90.23	SEP 2020	90.53	SEP 2020	92.ii	SEP 2018
90.24	SEP 2020	90.53A	SEP 2020	92.iii	SEP 2018
90.25	SEP 2018	90.53B	SEP 2020	92.iv	SEP 2018
90.26	SEP 2018	90.53C	SEP 2020	92.v	SEP 2018
90.27	SEP 2018	90.53D	SEP 2020	92.vi	SEP 2018
90.28	SEP 2018	90.54	SEP 2020	92.vii	SEP 2018
90.29	SEP 2018	90.55	SEP 2018	92.0	SEP 2018
90.30	SEP 2018	90.56	SEP 2018	92.1	SEP 2018
90.31	SEP 2018	90.57	SEP 2018	92.2	SEP 2018
90.32	SEP 2018	90.58	SEP 2018	92.3	SEP 2018
90.33	SEP 2018	90.59	SEP 2020	92.4	SEP 2018
90.34	SEP 2018	90.60	SEP 2020	92.5	SEP 2018
90.35	SEP 2018	90.61	SEP 2020	92.6	SEP 2018
90.36	SEP 2018	90.62	SEP 2020	92.7	SEP 2018
90.37	SEP 2018	90.63	SEP 2020	92.8	SEP 2018
90.38	SEP 2018	90.64	SEP 2020	92.9	SEP 2018
90.39	SEP 2020	90.65	SEP 2020	92.10	SEP 2018
90.39A	SEP 2020	90.66	SEP 2020	92.11	SEP 2018
90.39B	SEP 2020	90.67	SEP 2020	92.12	SEP 2018
90.39C	SEP 2020	90.68	SEP 2020	92.13	SEP 2018
90.39D	SEP 2020	90.69	SEP 2018	92.14	SEP 2018
90.40	SEP 2020	90.70	SEP 2018	92.15	SEP 2018
90.41	SEP 2020	90.71	SEP 2020	92.16	SEP 2018
90.42	SEP 2020	90.71A	SEP 2020	92.17	SEP 2018
90.43	SEP 2020	90.71B	SEP 2020	92.18	SEP 2018
90.44	SEP 2020	90.71C	SEP 2020	92.19	SEP 2018
90.45	SEP 2020	90.71D	SEP 2020	92.20	SEP 2018

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92.21	SEP 2018	92.59	SEP 2018	95.10	SEP 2020
92.22	SEP 2018	92.60	SEP 2018	95.11	SEP 2018
92.23	SEP 2018	92.61	SEP 2020	95.12	SEP 2018
92.24	SEP 2018	92.62	SEP 2020	95.13	SEP 2018
92.25	SEP 2018	92.63	SEP 2018	95.14	SEP 2018
92.26	SEP 2018	92.64	SEP 2018	95.15	SEP 2018
92.27	SEP 2018	92.65	SEP 2020	95.16	SEP 2018
92.28	SEP 2018	92.66	SEP 2020	95.17	SEP 2018
92.29	SEP 2018	92.67	SEP 2018	95.18	SEP 2018
92.30	SEP 2018	92.68	SEP 2018	95.19	SEP 2018
92.31	SEP 2018	92.69	SEP 2018	95.20	SEP 2018
92.32	SEP 2018	92.70	SEP 2018	95.21	SEP 2018
92.33	SEP 2018	92.71	SEP 2018	95.22	SEP 2018
92.34	SEP 2018	92.72	SEP 2018	95.23	SEP 2018
92.35	SEP 2018	92.73	SEP 2018	95.24	SEP 2018
92.36	SEP 2018	92.74	SEP 2018	95.25	SEP 2020
92.37	SEP 2018	92.75	SEP 2018	95.26	SEP 2020
92.38	SEP 2018	92.76	SEP 2018	95.27	SEP 2020
92.39	SEP 2018	92.77	SEP 2018	95.28	SEP 2020
92.40	SEP 2018	92.78	SEP 2018	95.29	SEP 2020
92.41	SEP 2018	92.79	SEP 2018	95.30	SEP 2020
92.42	SEP 2018	92.80	SEP 2018	95.31	SEP 2018
92.43	SEP 2018	92.81	SEP 2018	95.32	SEP 2018
92.44	SEP 2018	92.82	SEP 2018	95.33	SEP 2018
92.45	SEP 2018			95.34	SEP 2018
92.46	SEP 2018	95.i	SEP 2020	95.35	SEP 2018
92.47	SEP 2018	95.0	SEP 2020	95.36	SEP 2018
92.48	SEP 2018	95.1	SEP 2020	95.37	SEP 2018
92.49	SEP 2018	95.2	SEP 2020	95.38	SEP 2018
92.50	SEP 2018	95.3	SEP 2020	95.39	SEP 2018
92.51	SEP 2018	95.4	SEP 2020	95.40	SEP 2018
92.52	SEP 2018	95.5	SEP 2020	95.41	SEP 2018
92.53	SEP 2020	95.6	SEP 2020	95.42	SEP 2018
92.54	SEP 2020	95.7	SEP 2020	95.43	SEP 2018
92.55	SEP 2018	95.8	SEP 2020	95.44	SEP 2018
92.56	SEP 2018	95.9	SEP 2020	95.45	SEP 2018
92.57	SEP 2018	95.9A	SEP 2020	95.46	SEP 2018
92.58	SEP 2018	95.9B	SEP 2020	95.47	SEP 2018

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95.48	SEP 2018	96.27	SEP 2018	97.11A	AUG 2026
95.49	SEP 2018	96.28	SEP 2018	97.11B	AUG 2026
95.50	SEP 2018	96.29	SEP 2020	97.11C	AUG 2026
95.51	SEP 2018	96.30	SEP 2020	97.11D	AUG 2026
95.52	SEP 2018	96.31	SEP 2018	97.12	SEP 2018
		96.32	SEP 2018	97.13	MAY 2015
96.i	MAR 2025	96.33	SEP 2018	97.13A	AUG 2026
96.0	MAR 2025	96.34	SEP 2018	97.13B	AUG 2026
96.1	JAN 2023	96.35	SEP 2018	97.14	MAY 2015
96.2	JAN 2023	96.36	SEP 2018	97.15	MAY 2015
96.3	JAN 2023	96.37	SEP 2018	97.16	MAY 2015
96.3A	JAN 2023	96.38	SEP 2018	97.17	MAY 2015
96.3B	JAN 2023	96.39	SEP 2018	97.18	AUG 2026
96.4	JAN 2023	96.40	SEP 2018	97.19	AUG 2026
96.5	JAN 2023	96.41	SEP 2018	97.19A	AUG 2026
96.6	JAN 2023	96.42	SEP 2018	97.19B	AUG 2026
96.7	JAN 2023	96.43	MAR 2025	97.20	MAY 2015
96.8	JAN 2023	96.44	MAR 2025	97.21	MAY 2015
96.9	JAN 2023	96.45	MAR 2025	97.21A	AUG 2026
96.9A	JAN 2023	96.46	MAR 2025	97.21B	AUG 2026
96.9B	JAN 2023	96.47	MAR 2025	97.21C	AUG 2026
96.10	JAN 2023	96.48	MAR 2025	97.21D	AUG 2026
96.11	AUG 2026	96.49	MAR 2025	97.22	MAY 2015
96.12	AUG 2026	96.50	MAR 2025	97.23	SEP 2018
96.13	SEP 2018			97.24	SEP 2018
96.14	SEP 2018	97.i	AUG 2026	97.25	SEP 2018
96.15	SEP 2020	97.0	MAY 2015	97.26	SEP 2018
96.16	SEP 2020	97.1	MAY 2015	97.27	SEP 2018
96.17	SEP 2020	97.2	MAY 2015	97.28	SEP 2018
96.18	SEP 2020	97.3	MAY 2015	97.29	SEP 2018
96.19	MAY 2015	97.4	MAY 2015	97.30	SEP 2018
96.20	MAY 2015	97.5	MAY 2015	97.31	SEP 2018
96.21	SEP 2018	97.6	MAY 2015	97.32	SEP 2018
96.22	SEP 2018	97.7	MAY 2015	97.33	SEP 2018
96.23	SEP 2018	97.8	MAY 2015	97.34	SEP 2018
96.24	SEP 2018	97.9	MAY 2015	97.35	SEP 2018
96.25	SEP 2018	97.10	MAY 2015	97.36	SEP 2018
96.26	SEP 2018	97.11	SEP 2018	97.37	SEP 2018

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97.43.....	SEP 2018	99.8.....	SEP 2018
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97.53.....	SEP 2018	100.5.....	AUG 2026
97.54.....	SEP 2018	100.6.....	AUG 2026
97.55.....	SEP 2018	100.7.....	AUG 2026
97.56.....	SEP 2018	100.8.....	AUG 2026
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