

CHAPTER 53

FUSELAGE

<i>Figure</i>	<i>Title</i>	<i>Page</i>
53-1	Engine Cowling Installation	53.0
53-3	Mast Fairing Assembly	53.2
53-5	Tailcone Cowling Installation	53.4
53-7	Lower Frame Assemblies	53.6
53-11	Hydraulic Servo Support Frame Assembly	53.10
53-13	Upper Frame Assembly	53.12
53-15	Tailcone Assembly Installation	53.14
53-17	Tailcone Assembly Revision AW & Subsequent	53.16
53-21	Tailcone Assembly Revision AL thru AV	53.20
53-25	F004-2 Empennage Assembly	53.24
53-29	C004-2 & -3 Empennage Assembly	53.28
53-33	F050-2 Horizontal Stabilizer Installation	53.32
53-35	C050-2/G950-2 Stabilizer Installation	53.34
53-37	Wind Deflector Installation	53.36

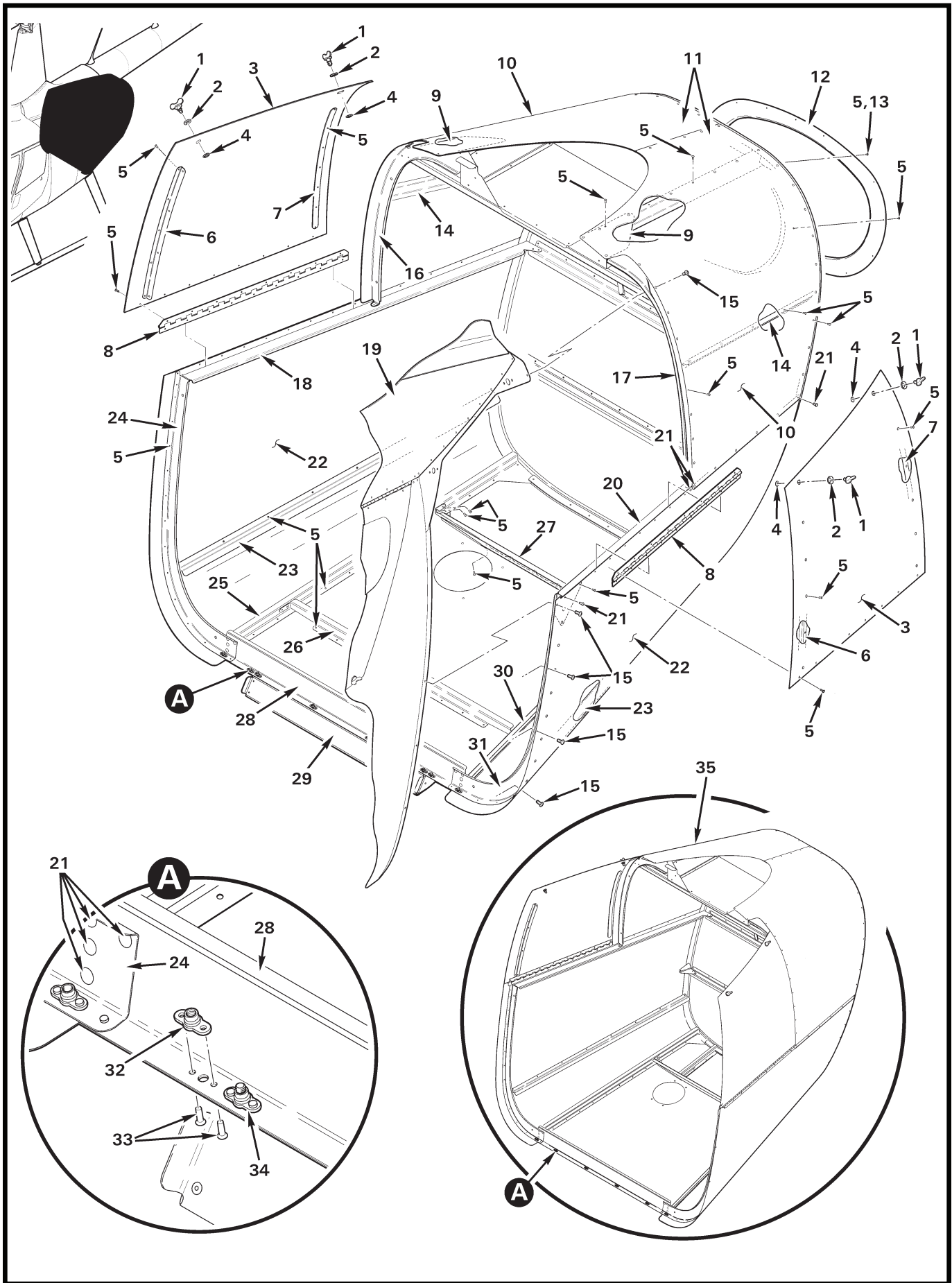


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		ENGINE COWLING INSTALLATION		
53-1-1	85-12-140-16	Stud	X	4
2	85-46-101-39	Washer	X	4
3	G040-5	Door (RH and LH)	X	2
4	85-34-201-20	Retaining Ring	X	4
5	MS20470AD3	Rivet	X	A/R
6	G304-1	Stiffener (RH and LH door)	X	2
7	G928-3	Stiffener (RH and LH door)	X	2
8	G925-4	Hinge	X	2
9	G309-7	Doubler (RH and LH)	X	2
10	G040-7	Engine Cowling Assembly – Aft (w/AC; includes items 5 thru 9, 11, 14, 16 thru 18, 20 thru 34)	X	1
11	G040-4	Skin (RH and LH)	X	2
12	G039-2	Ring (blank; drill-to-fit after exhaust pipe replacement)	X	1
13	MS20604R3W1	Rivet (may be used instead of item 5 for [4] upper rivets)	X	4
14	G307-9	Stiffener (RH and LH)	X	2
15	MS27039C0806	Screw	X	10
16	G306-2	Stiffener (RH)	X	1
17	G306-1	Stiffener (LH)	X	1
18	G307-4	Stiffener (RH)	X	1
19	G004	Fuselage Assembly – Aft (Ref)		
20	G307-3	Stiffener (LH)	X	1
21	MS20470AD4	Rivet	X	38
22	G040-3	Skin (RH and LH)	X	2
23	G307-10	Stiffener (RH and LH)	X	2
24	G305-2	Stiffener (RH)	X	1
25	G307-4	Stiffener (RH)	X	1
26	G312-1	Stiffener (forward)	X	1
27	G312-2	Stiffener (aft, install using item 5 [9])	X	1
28	G308-1	Stiffener	X	1
29	G311-10	Scoop (Ref)		
30	G307-3	Stiffener (LH)	X	1
31	G305-1	Stiffener (LH)	X	1
32	MS21069L08	Nutplate	X	6
33	NAS1097AD3	Rivet	X	A/R
34	MS21069L08	Nutplate (installed on item 10 only)	X	2
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
53-1-35	G040-1	ENGINE COWLING INSTALLATION (Cont'd)	X	1
		Engine Cowling Assembly – Aft (w/o AC; includes items 5 thru 9, 11, 14, 16 thru 18, 20 thru 28, 30, and 31)		
NOTES				

Intentionally Blank

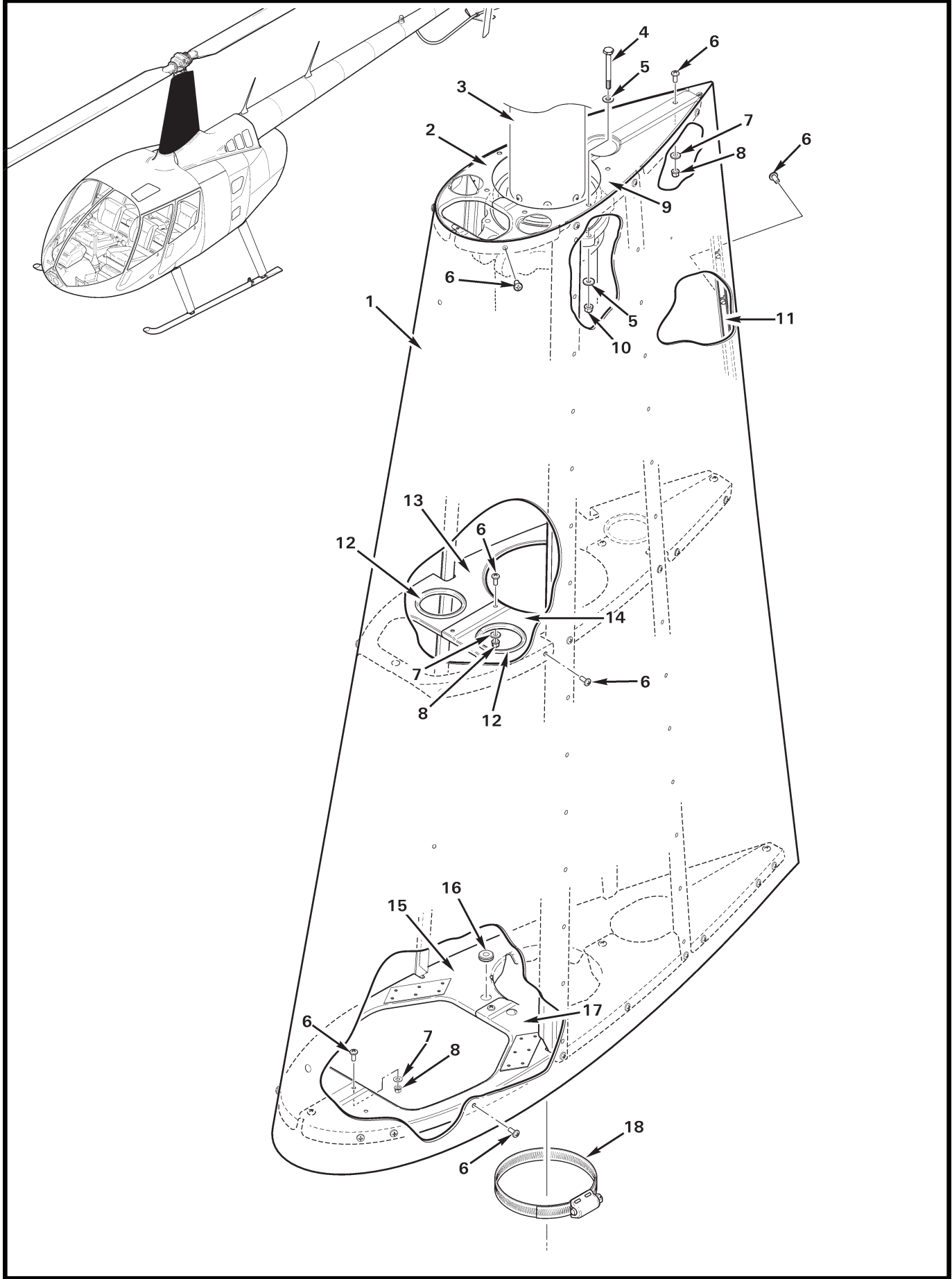


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
MAST FAIRING ASSEMBLY				
53-3-1	F261-1	Mast Fairing Assembly (Incl items 2, 6 thru 9, and 11 thru 18)	X	1
2	F261-18	Rib-Upper (RH)	X	1
	C261-6	Rib-Upper (RH; earlier aircraft)	O	1
3	F006	Main Rotor Gearbox Assembly (Ref)		
4	NAS6603	Bolt (Ref, see Figure 63-7)		
5	NAS1149F0332P	Washer	X	12
6	MS27039C0806	Screw	X	60
7	NAS1149FN816P	Washer	X	12
8	MS21042L08	Nut	X	12
9	F261-17	Rib – Upper (LH)	X	1
	C261-5	Rib – Upper (LH; earlier aircraft)	O	1
10	MS21042L3	Nut	X	6
11	A738-39	Gang Channel	X	1
12	NAS557-28A	Grommet	X	3
13	F261-16	Rib – Middle (RH)	X	1
14	F261-15	Rib – Middle (LH)	X	1
15	F261-14	Rib – Lower (RH)	X	1
16	MS35489-6	Grommet	X	1
17	F261-13	Rib – Lower (LH)	X	1
18	B277-064	Clamp (around mast tube)	X	1
NOTES				

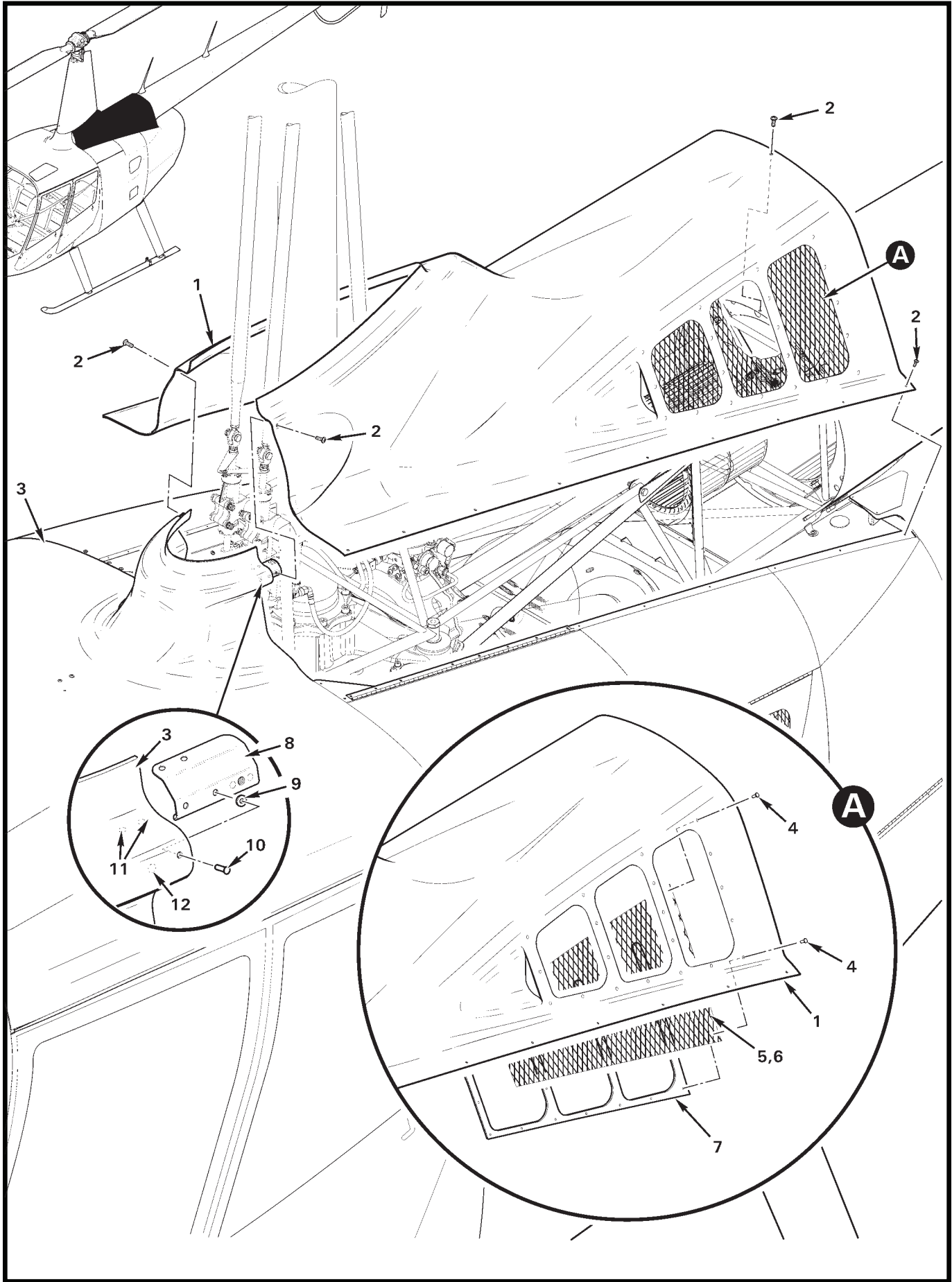


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE COWLING INSTALLATION		
53-5-1	F706-1	Cowling	X	1
2	MS27039C0806	Screw	X	22
3	F015	Cabin Assembly (Ref)		
4	NAS9301B-4-04	Rivet	X	40
5	G911-3	Screen (LH)	X	1
6	G911-4	Screen (RH, not shown)	X	1
7	G911-2	Retainer	X	2
8	G921-9	Bracket Assembly (Ref; LH)		
	G921-10	Bracket Assembly (Ref; RH)		
9	NAS620-5	Washer	X	2
10	MS20426AD4	Rivet (aft location)	X	2
11	MS20470AD4	Rivet (Ref)		
12	MS20426AD4	Rivet (Ref; forward location)		
NOTES				

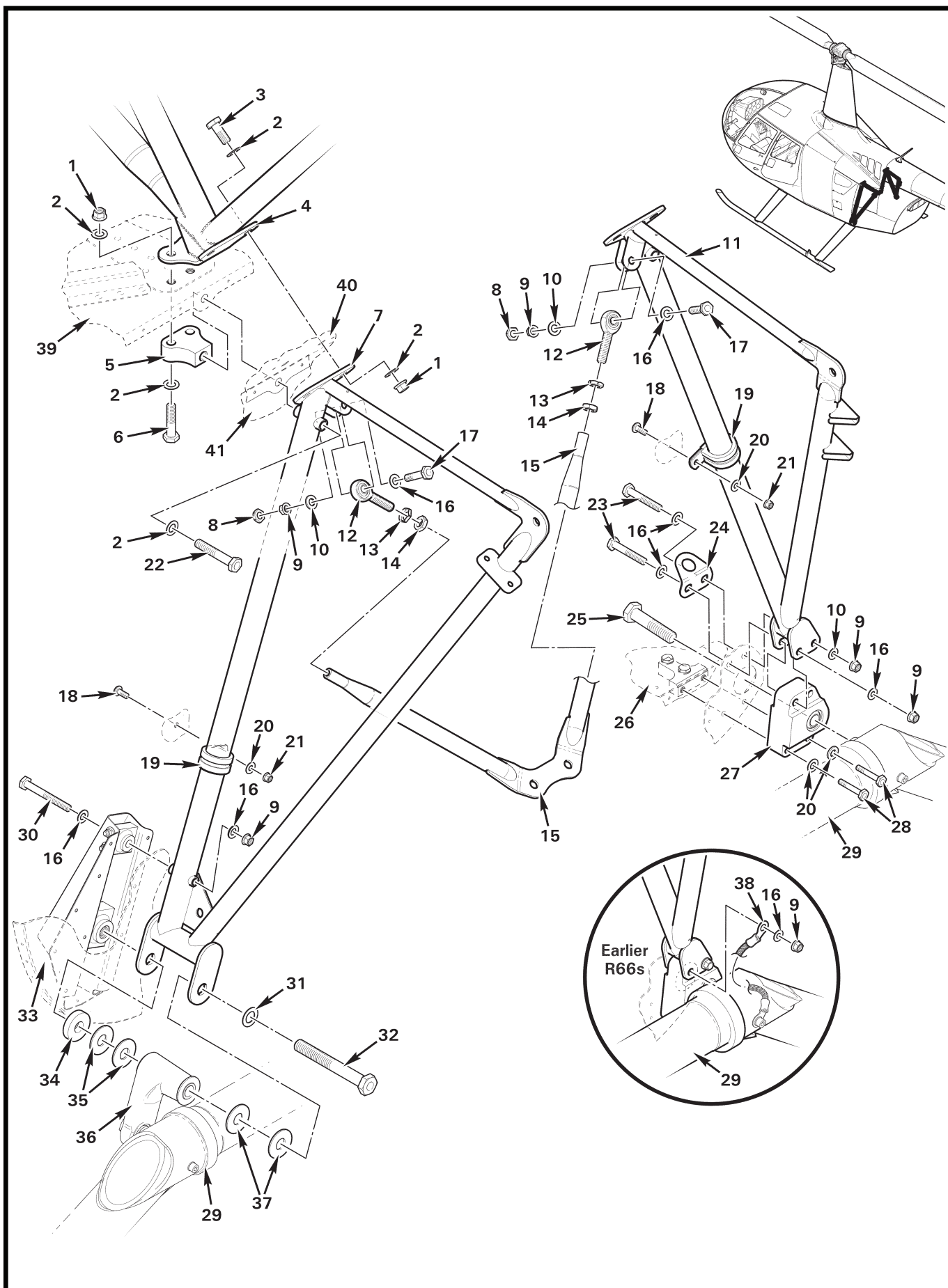


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LOWER FRAME ASSEMBLIES		
53-7-1	D210-5	Nut	X	8
2	NAS1149F0532P	Washer	X	26
3	NAS6605-5	Bolt	X	4
4	F020-1	Frame Weldment (upper frame assy.; Ref; see Figure 53-13)		
5	F574-10	Block Assembly	X	2
6	NAS6605-14	Bolt	X	4
7	F046-1*	Frame Weldment (LH, lower frame assembly)	X	1
8	B330-13	Palnut	X	2
9	D210-4	Nut	X	4
10	NAS1149F0463P	Washer	X	2
11	F046-2*	Frame Weldment (RH, lower frame assembly)	X	1
12	F101-4	Rod End (elastomeric)	X	2
13	B330-16	Palnut	X	2
14	AN316-5R	Nut	X	2
15	F174-1	Support Weldment	X	1
16	NAS1149F0432P	Washer	X	4
17	NAS6604-10	Bolt	X	2
18	MS27039C1-07	Screw	X	2
19	MS21919WDG14	Clamp	X	2
20	NAS1149F0332P	Washer	X	4
21	D210-3	Nut	X	2
22	NAS6605-22	Bolt	X	2
23	NAS6604-18	Bolt	X	1
24	G914-5	Tab	X	1
25	NAS6607P20	Bolt (Ref; see Figure 32-1)		
26	G024-1	Floor Assembly (Ref)		
27	F574-1	Support Assembly	X	1
28	NAS6603-13	Bolt	X	2
29	F014-2	Landing Gear Assembly (Ref; see Figure 32-1)		
30	NAS6604-28	Bolt	X	1
31	NAS1149F0732P	Washer	X	1
32	NAS6607P44	Bolt	X	1
33	G004-1	Fuselage Assembly (Ref)		
34	C141-6	Washer	X	1
35	C141-5	Washer	X	2
NOTES * Apply B270-1 sealant (item 42) around frame where it attaches to cabin.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LOWER FRAME ASSEMBLIES (Cont'd)		
53-7-36	C276-3	Shackle Assembly (Ref; see Figure 32-1)		
37	A214-10	Washer	X	2
38	A936-3	Wire Assembly (Ref; see Figure 32-1. Earlier R66s.)		
39	G023-1	Ceiling Assembly – Baggage Compartment (Ref)		
40	F384-1	Doubler (Ref)		
41	F234-1	Firewall (Ref)		
42	B270-1	Sealant	X	A/R
NOTES				

Intentionally Blank

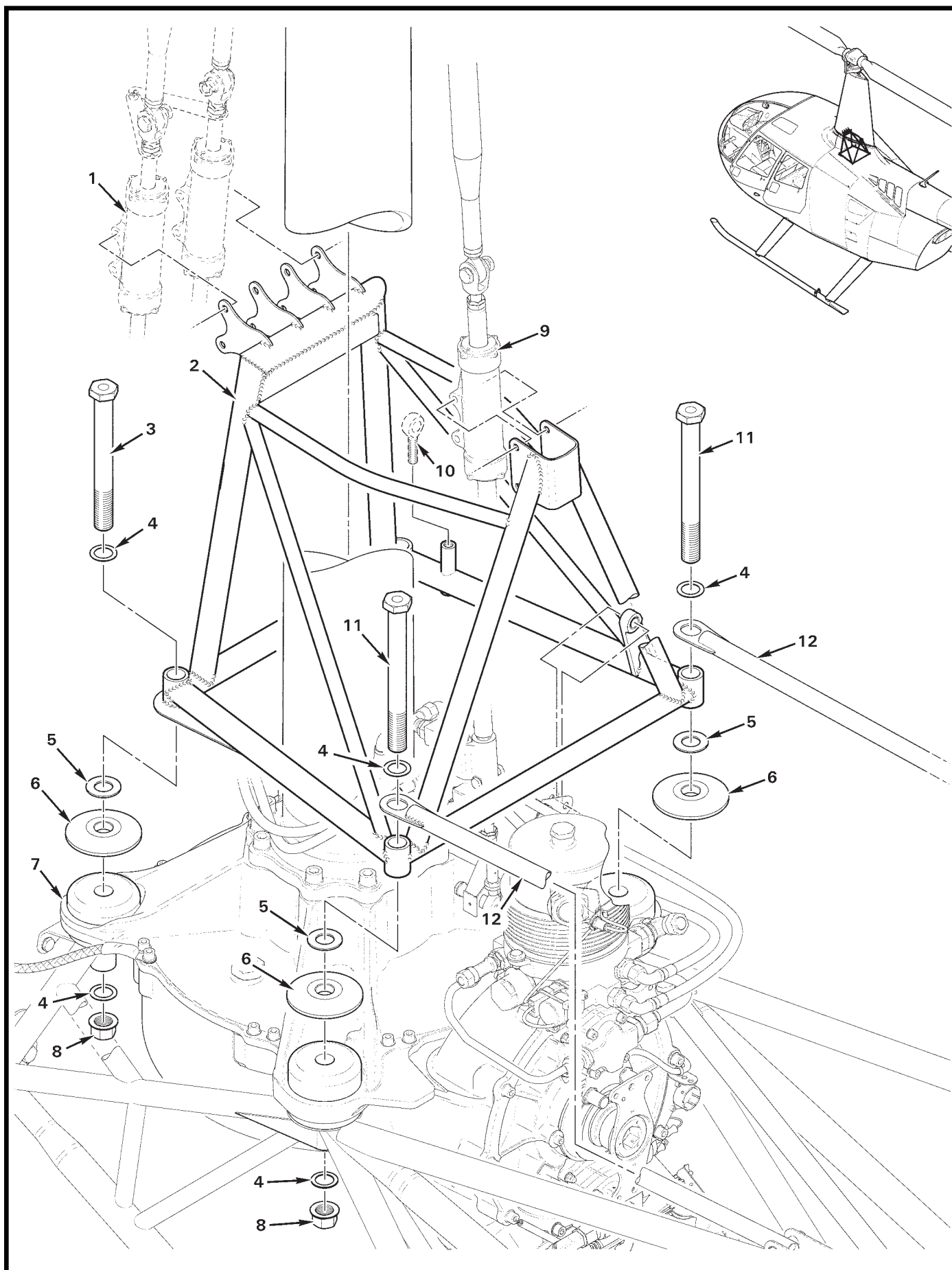


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HYDRAULIC SERVO SUPPORT FRAME ASSEMBLY		
53-11-1	D212-5	Forward Servo (Ref; see Figure 29-7)		
2	G201-1	Frame Weldment	X	1
3	F650-1	Bolt	X	2
4	A141-21	Washer	X	8
5	NAS1149F1063P	Washer	X	4
6	A267-1	Washer	X	4
7	F006-1	Main Rotor Gearbox Assembly (Ref; see Figure 63-3)		
8	D210-10	Nut (Install with A257-9 on bolt threads.)	X	4
9	D212-6	Aft Servo (Ref; see Figure 29-11)		
10	B163-2	Rod End (Ref; see Figure 67-25)		
11	F650-2	Bolt	X	2
12	F235-13	Strut Assembly (Ref; see Figure 53-13)		
NOTES				

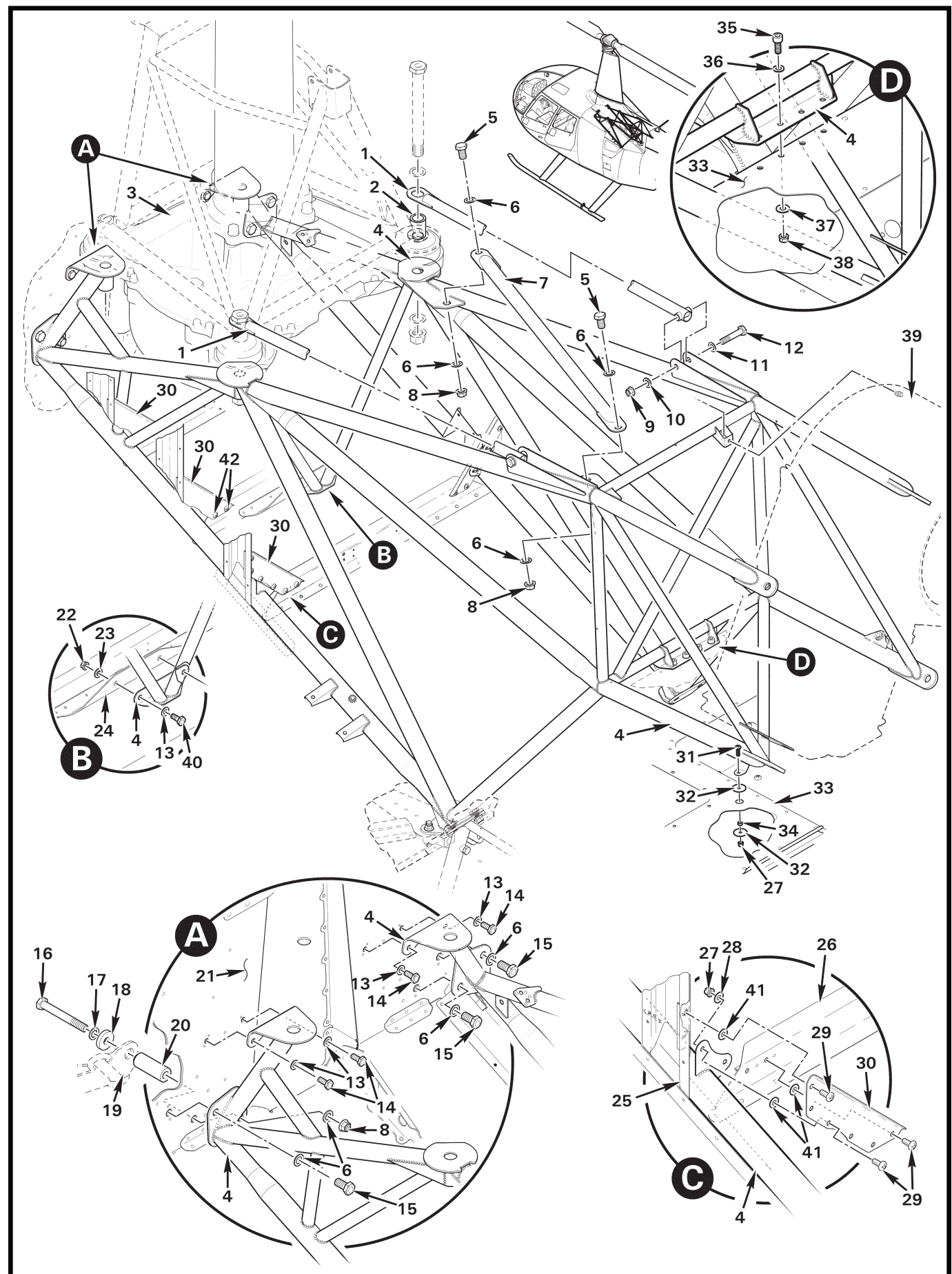


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		UPPER FRAME ASSEMBLY		
53-13-1	F235-13	Strut Assembly	X	2
2	G201-1	Frame Weldment (hydraulic support; Ref)		
3	F006-1	Main Rotor Gearbox Assembly (Ref; see Figure 63-3)		
4	F020-1 *	Frame Weldment (upper frame assembly)	X	1
5	NAS6606-1	Bolt	X	2
6	NAS1149F0632P	Washer	X	8
7	F252-1	Strut	X	1
8	D210-6	Nut	X	3
9	D210-5	Nut	X	2
10	NAS1149F0563P	Washer	X	2
11	NAS1149F0532P	Washer	X	2
12	NAS6605-17	Bolt	X	2
13	NAS1149F0432P	Washer	X	6
14	NAS6604-3	Bolt	X	4
15	NAS6606-3	Bolt	X	3
16	NAS6606-36	Bolt	X	1
17	NAS1149F0663P	Washer	X	1
18	C141-16	Washer	X	1
19	505281-1	Guide (seat belt, Ref)		
20	F374-7	Spacer	X	1
21	F560-1	Cabin Bulkhead Assembly (LH, Ref)		
22	D210-4	Nut	X	2
23	NAS1149F0463P	Washer	X	2
24	G258-2	Bracket (Ref)		
25	F231-1	Stiffener (Ref)		
26	F231-7	Stiffener (Ref)		
27	MS21042L08	Nut	X	4
28	NAS1149FN816P	Washer	X	4
29	MS27039C0807	Screw	X	12
30	F231-8	Brace	X	6
31	MS27039C0808	Screw	X	2
32	C141-22	Washer	X	4
33	G234-1	Firewall (Ref)		
34	C130-33	Spacer	X	2
35	NAS1351-3-8P	Screw	X	4
NOTES * Apply B270-1 sealant (item 43) around frame where it attaches to cabin.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
UPPER FRAME ASSEMBLY (Cont'd)				
53-13-36	NAS620-10L	Washer	X	4
37	NAS1149F0332P	Washer	X	4
38	D210-3	Nut	X	4
39	F236-1	Scroll Assembly (Ref, see Figure 79-1)		
40	NAS6604-2	Bolt (formerly NAS6604-3)	X	2
41	NAS1149FN816P	Washer (and/or NAS1149FN832P; shim as required to align F231-8 bracket with F020-1 frame tab and cabin stiffener.) . .	X	A/R
42	MS27039C0806	Screw	X	16
43	B270-1	Sealant	X	A/R
NOTES				

Intentionally Blank

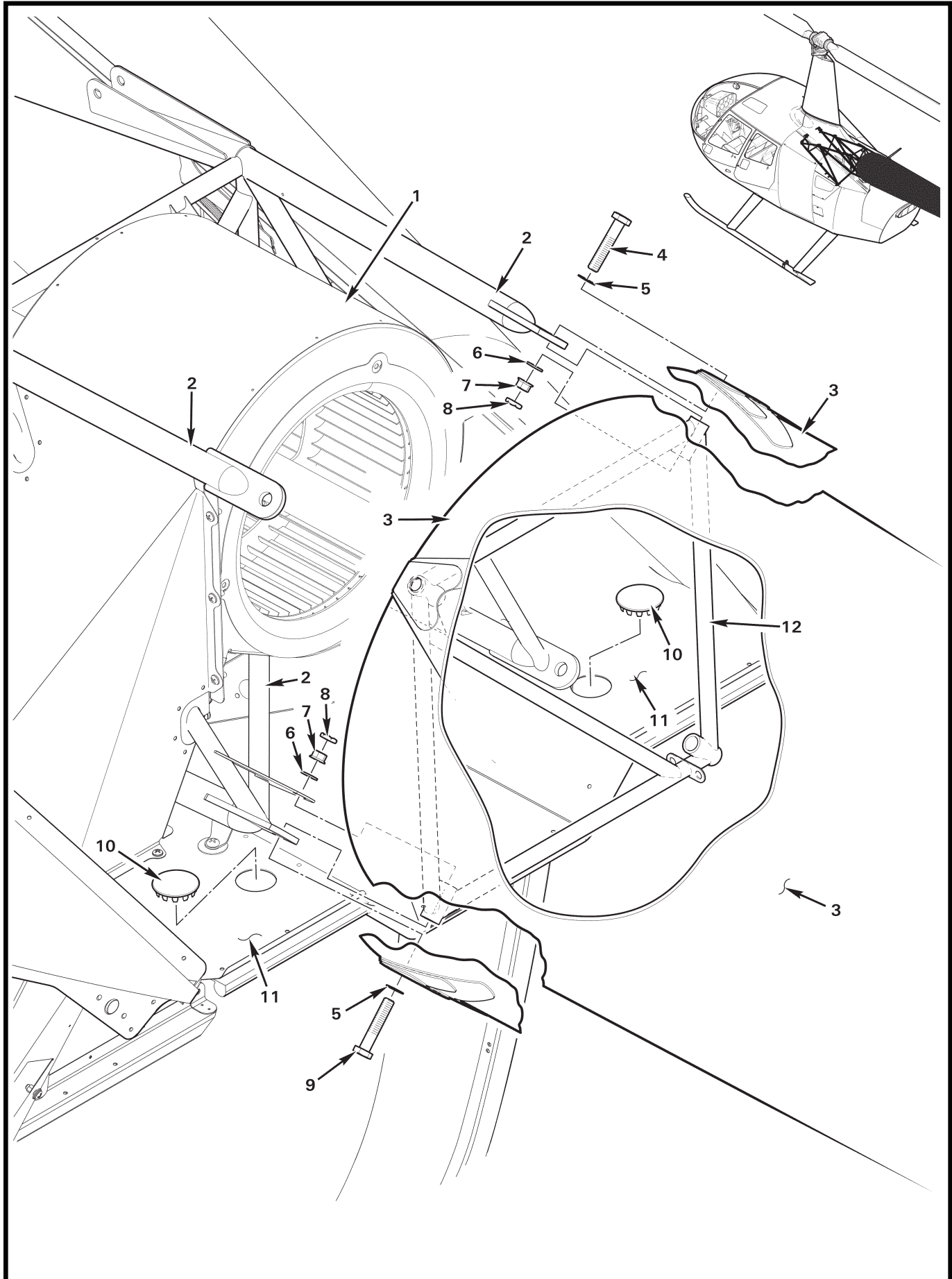


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE ASSEMBLY INSTALLATION		
53-15-1	F236-1	Scroll Assembly (Ref; see Figure 79-1.)		
2	F020-1	Frame Weldment (Upper frame, ref; see Figure 53-13.)		
3	C023	Tailcone (Ref; see Figure 53-17 or 53-21.)		
4	NAS6607-23	Bolt (Was NAS6607-24. Install [1] each upper RH & LH locations.)	X	2
5	NAS1149F0732P	Washer	X	4
6	C141-4	Washer (0.063-inch thick, 0.700-inch O.D.)	X	4
7	D210-7	Nut	X	4
8	B330-21	Palnut	X	4
9	NAS6607-24	Bolt (Was NAS6607-25 at lower LH side. Install [1] each lower RH & LH locations.)	X	2
10	B209-9	Plug	X	2
11	G234-1	Firewall (Ref)		
12	F237-1	Frame Weldment	X	1
NOTES				

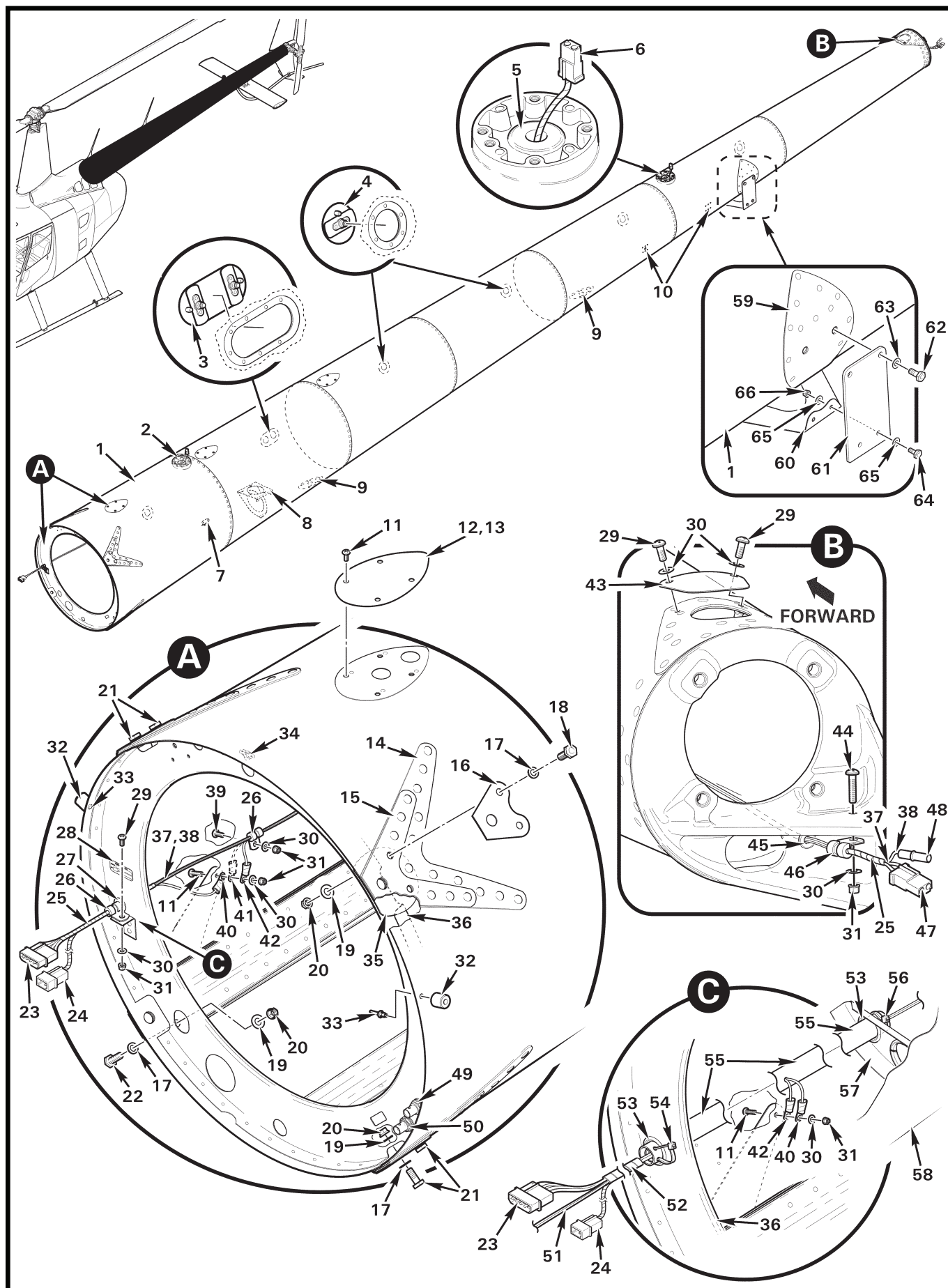


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE ASSEMBLY – REVISION AW & SUBSEQUENT		
53-17-1	C023-21*	Tailcone Assembly – Three Antenna (Does not include items 9, 10, & 49 thru 56. Also order items 67 & 68, as required.)	X	1
	C023-24*	Tailcone Assembly – E.N.G. (Does not include items 10, 26, & 27. Also order items 67 & 68, as required.)	O	1
	C023-34*	Tailcone Assembly – Five Antenna (Does not include items 10, & 51 thru 56. Also order items 67 & 68, as required.)	X	1
	C023-35*	Tailcone Assembly – Three Antenna and Nav Antenna (Does not include items 49 thru 56. Also order items 67 & 68, as required.)	X	1
2	G685	Forward Strobe Installation (Ref; B528-3 mount shown – optional equipment.)		
3	A231-10	Plug Assembly (includes MS27039C0807 screws)	X	1
4	A231-1	Plug Assembly (includes MS27039C0807 screw)	X	5
5	MS35489-15	Grommet	X	1
6	B263-13	Housing	X	1
	B263-2	Socket	X	2
7	F950-15	Angle Assembly	X	1
8	F950-20	Bracket Assembly	X	1
9	—	(Ref; antenna location, C023-24 & -34 tailcones only.)		
10	—	(Ref; antenna location, C023-35 tailcone only.)		
11	MS27039C0807	Screw	X	A/R
12	B322-2	Cover (install using item 13 when antenna not installed)	X	A/R
13	B270-13	Sealant	X	A/R
14	D078-3	Doubler (Ref)		
15	D078-2	Doubler (Ref)		
16	D078-1	Doubler	X	4
17	NAS1149F0432P	Washer	X	8
18	NAS6604-3	Bolt	X	2
19	A141-11	Washer	X	8
20	D210-4	Nut	X	8
21	NAS6604-4	Bolt	X	4
22	NAS6604-5	Bolt	X	2
23	B263-16	Housing	X	1
	B263-1	Pin (wires -109, -5, -503, & -2038)	X	4
24	B263-12	Housing	X	1
	B263-3	Pin (wire -2854, tailcone ground)	X	1
	B263-1	Pin (wire -2388, optional forward strobe power)	X	1
NOTES	* Tailcone revision AW & subsequent available only to countries eligible for symmetric stabilizer installation, refer to SL-45 (current revision).			

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE ASSEMBLY – REVISION AW & SUBSEQUENT (Cont'd)		
53-17-25	B161-2	Spirap	X	A/R
26	MS21919WDG2	Clamp	X	2
27	B401-4	Grommet	X	1
28	A651-1	Data Plate (Ref)		
29	MS27039C0806	Screw	X	A/R
30	NAS1149FN816P	Washer	X	A/R
31	MS21042L08	Nut	X	A/R
32	F288-2	Bumper	X	2
33	NAS9301B-4-02	Rivet	X	2
34	MS21069L08	Nutplate (install using MS20426AD3 rivets)	X	1
35	F288-3	Doubler	X	1
36	D070-1	Bulkhead Assembly (Ref)		
37	-5	Wire (Ref)		
	-503	Wire (Ref)		
38	-109	Wire (Ref)		
39	MS27039C0806	Screw	X	1
	MS27039C0805	Screw (C023-24 Tailcone only)	X	1
40	B260-9	Terminal (wire -2854, tailcone ground)	X	1
41	B260-3	Terminal (wire -2734, optional forward strobe ground)	X	1
42	B260-3	Terminal (wire -2039, aft strobe ground)	X	1
43	A558-2	Cover – Inspection (transparent)	X	1
44	MS27039C0808	Screw (or MS27039C0809 thru MS27039C0811)	X	1
45	MS35489-33	Grommet	X	1
46	MS21919WDG2	Clamp	X	1
	MS21919WDG3	Clamp (C023-24 Tailcone only)	X	1
47	B263-13	Housing	X	1
	B263-2	Socket	X	2
48	B263-11	Housing	X	1
	B263-2	Socket	X	1
49	5221221-2	Jack (Ref, C023-24 Tailcone only; see Figure 6-29.)		
	5225398-6	Jack (Ref, C023-34 Tailcone only; see Figure 6-29.)		
50	5225398-6	Jack (Ref, C023-24 & -34 Tailcones; see Figure 6-29.)		
51	C023-757	Cable (Ref)		
	C023-2815	Wire (Ref)		
52	B161-4	Spirap (C023-24 tailcone only)	X	A/R
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE ASSEMBLY – REVISION AW & SUBSEQUENT (Cont'd)		
53-17-53	NAS557-10A	Grommet (C023-24 tailcone only)	X	8
54	MS3367-5-9	Ty-Rap (securing wires)	X	1
55	D686-1	Conduit (C023-24 tailcone only)	X	1
56	MS3367-5-9	Ty-Rap (around item 55)	X	1
57	D080-1	Bulkhead Assembly (Ref)		
58	C023-12	Skin (Ref)		
59	F955-2	Doubler (Ref)		
60	F955-1	Bracket (Ref)		
61	MT023-2	Support (Temporarily installed to support item 60 when F050-2 not installed.)	X	2
62	NAS6604-3	Bolt	X	4
63	NAS1149F0432P	Washer	X	4
64	NAS6603-2	Bolt	X	4
65	NAS1149F0332P	Washer	X	8
66	D210-3	Nut	X	4

67	KI-276	R44-series and R66 B264-XX Connector Upgrade Kit Instructions (Replaces obsoleted B264-XX connectors with B263-XX connectors on: C049-1 tail rotor gearbox chip detector harness assembly, C023 tailcone aft wire harness, and tail light wire on C044 horizontal stabilizer harness.) . . .	X	A/R
68	KI-277	C023 Tailcone with GMU 44 Magnetometer Installation Kit Instructions. R66 helicopter S/N 1068 & prior with GMU 44 installed in tailcone, order KI-277-1 to install GMU 44 on F950-20 bracket (compatible with GMU 44B) or KI-277-2 if GMU 44 originally installed in forward bay.	X	A/R
NOTES				

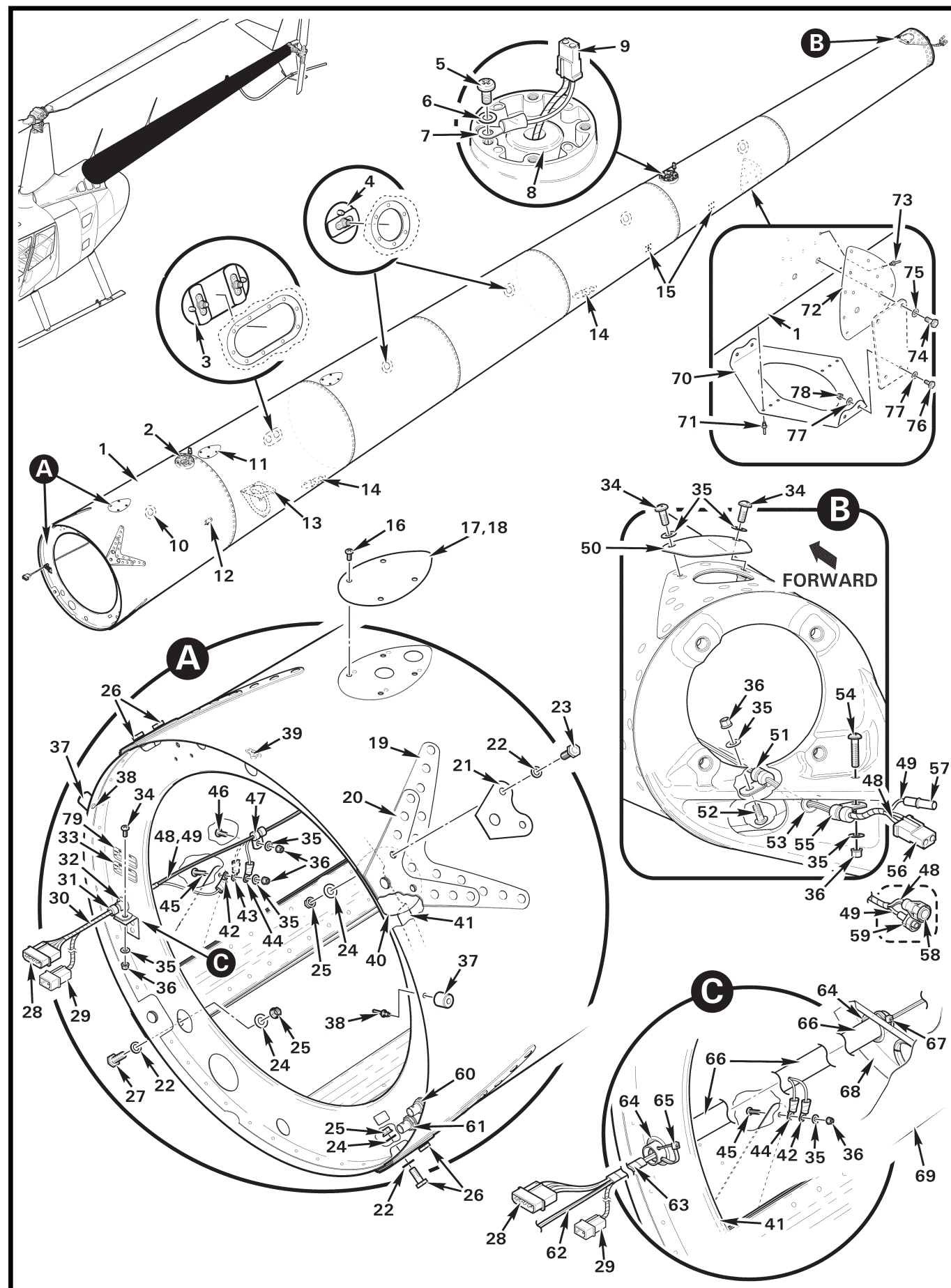


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY	
53-21-1	TAILCONE ASSEMBLY – REVISION AL THRU AV				
	C023-21*	Tailcone Assembly – Three Antenna (Does not include items 14, 15, 60 thru 67, & 70 thru 78. Also order items 80 and 81, as required.)	X	1	
	C023-24*	Tailcone Assembly – E.N.G (Does not include items 15, 31, 32, 47, & 70 thru 78. Also order items 80 and 81, as required.)	X	1	
	C023-34*	Tailcone Assembly – Five Antenna (Does not include items 15, 62 thru 67, & 70 thru 78. Also order items 80 and 81, as required.)	X	1	
	C023-35*	Tailcone Assembly – Three Antenna and Nav Antenna (Does not include items 60 thru 67, & 70 thru 78. Also order items 80 and 81, as required.)	X	1	
	2	G685	Forward Strobe Installation (Ref; B528-3 mount shown – optional equipment.)		
	3	A231-10	Plug Assembly (Tailcone revision AP thru AV; includes MS27039C0807 screws.)	X	1
	4	A231-1	Plug Assembly (includes MS27039C0807 screw)	X	5
	5	MS35206-227	Screw (Tailcone revision AL thru AP.)	X	1
	6	NAS620-6L	Washer (Tailcone revision AL thru AP.)	X	1
	7	B260-2	Terminal (Wire -2039; tailcone revision AL thru AP.)	X	1
	8	MS35489-15	Grommet	X	1
	9	B263-13	Housing	X	1
		B263-2	Socket	X	2
	10	—	(Ref; TRDS runout inspection hole, tailcone revision AN thru AV.)		
	11	—	(Ref; antenna location, tailcone revision AP thru AV.)		
	12	F950-15	Angle Assembly (Standard equipment on revision AU tailcones, optional equipment on revision AT and prior tailcones.)	X	1
	13	F950-4	Bracket (Compatible with GMU 44 magnetometer; standard equipment on revision AU tailcones, optional G500 equipment on revision AT and prior tailcones.)	X	1
		F950-20	Bracket (Compatible with GMU 44B magnetometer; standard equipment on revision AV tailcones.)	X	1
	14	—	(Ref; antenna location, C023-24 & -34 tailcones only.)		
	15	—	(Ref; antenna location, C023-35 tailcone only.)		
	16	MS27039C0807	Screw	X	A/R
	17	B322-2	Cover (install using item 18 when antenna not installed)	X	A/R
	18	B270-13	Sealant	X	A/R
NOTES	* Tailcone revision AV available only to countries not eligible for symmetric stabilizer installation, refer to SL-45 (current revision).				
Continues					

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE ASSEMBLY – REVISION AL THRU AV (Cont'd)		
53-21-19	D078-3	Doubler (Ref)		
20	D078-2	Doubler (Ref)		
21	D078-1	Doubler	X	4
22	NAS1149F0432P	Washer	X	8
23	NAS6604-3	Bolt (or NAS6604-4)	X	2
24	A141-11	Washer	X	8
25	D210-4	Nut	X	8
26	NAS6604-4	Bolt	X	4
27	NAS6604-5	Bolt	X	2
28	B263-16	Housing	X	1
	B263-1	Pin (wires -109, -5, -503, & -2038)	X	4
29	B263-12	Housing (tailcone revision AR thru AV)	X	1
	B263-3	Pin (wire -2854, tailcone ground)	X	1
	B263-1	Pin (wire -2388, optional forward strobe power)	X	1
	B263-10	Housing (Ref, not shown; wire -2388, optional forward strobe power – tailcone revision AL thru AQ.)		
	B263-1	Pin (Ref)		
30	B161-2	Spirap	X	A/R
31	MS21919WDG2	Clamp	X	1
32	B401-4	Grommet	X	1
33	A651-1	Data Plate (Ref)		
34	MS27039C0806	Screw	X	A/R
35	NAS1149FN816P	Washer	X	A/R
36	MS21042L08	Nut	X	A/R
37	F288-2	Bumper	X	2
38	NAS9301B-4-02	Rivet	X	2
39	MS21069L08	Nutplate (install using MS20426AD3 rivets)	X	1
40	F288-3	Doubler	X	1
41	D070-1	Bulkhead Assembly (Ref)		
42	B260-9	Terminal (Wire -2854, tailcone ground; tailcone revision AR thru AV.)	X	1
43	B260-3	Terminal (Wire -2734, optional forward strobe ground; tailcone revision AQ thru AV.)	X	1
44	B260-3	Terminal (Wire -2039, aft strobe ground; tailcone revision AQ thru AV.)	X	1
45	MS27039C0807	Screw (Tailcone revision AQ thru AV.)	X	1
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE ASSEMBLY – REVISION AL THRU AV (Cont'd)		
53-21-46	MS27039C0806	Screw (tailcone revision AQ thru AV)	X	1
	MS27039C0805	Screw (Tailcone revision AQ thru AV; C023-24 tailcone only.)	X	1
47	MS21919WDG2	Clamp (tailcone revision AQ thru AV)	X	1
48	-5	Wire (Ref)		
	-503	Wire (Ref)		
49	-109	Wire (Ref)		
50	A558-2	Cover – Inspection (transparent)	X	1
51	MS21919WDG2	Clamp (tailcone revision AL thru AQ)	X	1
	MS21919WDG4	Clamp (Tailcone revision AL thru AQ; C023-24 tailcone only.)	X	1
52	MS27039C0806	Screw (tailcone revision AL thru AQ)	X	1
53	MS35489-33	Grommet	X	1
54	MS27039C0808	Screw (Or MS27039C0809 thru MS27039C0811; tailcone revision AR thru AV.)	X	1
55	MS21919WDG2	Clamp (tailcone revision AR thru AV)	X	1
	MS21919WDG3	Clamp (Tailcone revision AR thru AV; C023-24 tailcone only.)	X	1
56	B263-13	Housing	X	1
	B263-2	Socket	X	2
57	B263-11	Housing	X	1
	B263-2	Socket	X	1
58	B264-13	Plug (No longer available, replaced by item 56, order KI-276 as required.)	O	1
	B264-2	Socket (Ref)		
59	B264-11	Plug (No longer available, replaced by item 56, order KI-276 as required.)	O	1
	B264-1	Socket (Ref)		
60	5221221-2	Jack (Ref, C023-24 tailcone only; see Figure 6-29.)		
	5225398-6	Jack (Ref, C023-34 tailcone only; see Figure 6-29.)		
61	5225398-6	Jack (Ref, C023-24 & -34 tailcones; see Figure 6-29.)		
62	C023-757	Cable (Ref)		
	C023-2815	Wire (Ref)		
63	B161-4	Spirap (C023-24 tailcone only)	X	A/R
64	NAS557-10A	Grommet (C023-24 tailcone only)	X	8
65	MS3367-5-9	Ty-Rap (securing wires)	X	1
66	D686-1	Conduit (C023-24 tailcone only)	X	1
67	MS3367-5-9	Ty-Rap (around item 66)	X	1
68	D080-1	Bulkhead Assembly (Ref)		
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAILCONE ASSEMBLY – REVISION AL THRU AV (Cont'd)		
53-21-69	C023-12	Skin (Ref)		
70	F955-6*	Bracket (Ref)		
71	NAS9301B-5-03*	Rivet (Ref)		
72	F955-2*	Doubler (Ref)		
73	NAS9301B-5-02*	Rivet (Ref)		
74	NAS6604-3*	Bolt (Ref)		
75	NAS1149F0432P*	Washer (Ref)		
76	NAS6603-2*	Bolt (Ref)		
77	NAS1149F0332P*	Washer (Ref)		
78	D210-3*	Nut (Ref)		
79	A651-4*	B900-15 modification plate (Ref)		

80	KI-276	R44-series and R66 B264-XX Connector Upgrade Kit Instructions (Replaces obsoleted B264-XX connectors with B263-XX connectors on: C049-1 tail rotor gearbox chip detector harness assembly, C023 tailcone aft wire harness, and tail light wire on C044 horizontal stabilizer harness.)	X	A/R
81	KI-277	C023 Tailcone with GMU 44 Magnetometer Installation Kit Instructions. R66 helicopter S/N 1068 & prior with GMU 44 installed in tailcone, order KI-277-1 to install GMU 44 on F950-20 bracket (compatible with GMU 44B) or KI-277-2 if GMU 44 originally installed in forward bay.	X	A/R
82	KI-285-1	R66 Horizontal Stabilizer Retrofit Kit Instructions (Replaces C044-1 & -2 horizontal stabilizers with F044-1 vertical stabilizers mount assembly, and installs F050-2 horizontal symmetrical stabilizer assembly. Refer to R66 SL-45 (current revision) to determine eligibility.)	X	A/R
NOTES * See item 82.				

Intentionally Blank

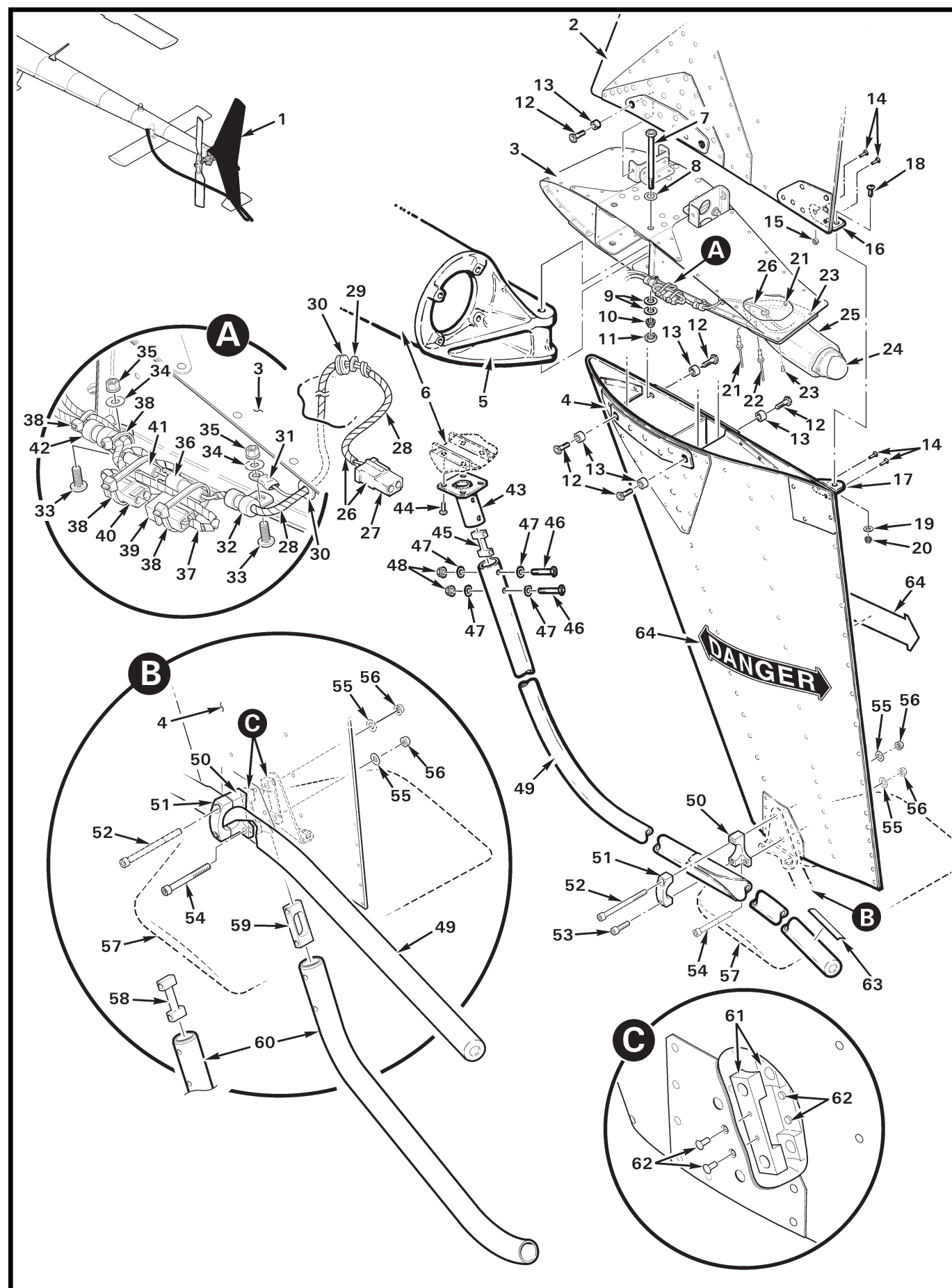


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		F004-2 EMPENNAGE ASSEMBLY		
53-25-1	F004-2*	Empennage Assembly (Incl items 2 thru 4, & 12 thru 20) . . .	X	1
2	C042-1	Stabilizer – Upper Vertical (does not include items 14 thru 16)	X	1
3	F044-1*	Mount Assembly – Vertical Stabilizers (Includes items 21 thru 23, 25, & 26; does not include item 24.)	X	1
4	C043-1	Stabilizer – Lower Vertical (includes items 61 & 62; does not include items 14, 17, 60, & 64)	X	1
5	C148	Bulkhead Assembly (Ref)		
6	C023-21, -24, -34, -35	Tailcone Assembly (Ref; see Figures 53-17 & 53-21.)		
7	NAS6606-47	Bolt (or NAS6606-48)	X	2
8	NAS1149F0632P	Washer	X	2
9	NAS1149F0663P	Washer (under nut, as required to meet torque requirements per R66 MM § 20-30 Part E.)	X	A/R
10	D210-6	Nut	X	2
11	B330-19	Palnut	X	2
12	NAS6604-6	Bolt	X	8
13	C130-9	Spacer	X	8
14	MS20470AD4	Rivet	X	4
15	A130-14	Spacer	X	1
16	C554-2	Clip – Upper Vertical Stabilizer	X	1
17	C554-1	Clip – Lower Vertical Stabilizer	X	1
18	MS35206-228	Screw	X	1
19	NAS1149FN616P	Washer	X	1
20	MS21042L06	Nut	X	1
21	NAS9301B-4-01	Rivet (or NAS9301B-4-02)	X	2
22	NAS9301B-4-02	Rivet (or NAS9301B-4-03)	X	1
23	MS20470AD3	Rivet	X	2
24	01-0771554-01**	Light Assembly – Tail Light (Ref; see Figure 33-3)		
25	C529-1	Mount Assembly – Tail Light	X	1
26	D049-8	Wire Harness Assembly – Tail Light (Includes items 27 thru 31, 36, and wires; assembled.)	X	1
27	B263-13	Housing	X	1
	B263-2	Socket	X	2
28	B161-2	Spirap	X	A/R
29	90295A075	Washer	X	1
30	MS35489-4	Grommet	X	2
31	B260-3	Terminal	X	1

NOTES * May only be installed if F955-1 bracket is installed on tailcone, see Figures 53-17 & 53-21.

** Whelen part number.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
F004-2 EMPENNAGE ASSEMBLY (Cont'd)				
53-25-32	MS21919WDG2	Clamp	X	1
33	MS27039C0806	Screw	X	2
34	NAS1149FN816P	Washer	X	2
35	MS21042L08	Nut	X	2
36	B263-10	Housing	X	1
	B263-1	Pin	X	1
37	C049-4	Harness Assembly – Chip detector (Ref; see Figure 65-9)		
38	MS3367-5-0	Ty-Rap	X	A/R
39	B263-12	Housing (Ref; see Figure 65-9)		
	B263-1	Pin (Ref)		
40	B263-13	Housing (Ref; see Figures 53-17 & 53-21)		
	B263-2	Socket (Ref)		
41	B263-11	Housing (Ref; see Figures 53-17 & 53-21)		
	B263-2	Socket (Ref)		
42	MS21919WDG3	Clamp	X	1
43	D082-1	Tube Assembly – Tail Rotor Guard Mount (lightly coat mating surface to item 49 with wet primer)	X	1
44	MS27039C1-07	Screw	X	4
45	D081-1	Spacer (lightly coat mating surface to item 43 with wet primer prior to installation)	X	1
46	NAS6603-16	Bolt (install using wet primer on shank)	X	2
47	NAS1149F0332P	Washer	X	4
48	D210-3	Nut	X	2
49	D079-1	Tail Rotor Guard Assembly (Revision V and subsequent only. Includes item 63; does not include items 43 and 45. Lightly coat inside top of guard with wet primer prior to installing item 43. Seal around seam with primer after installation.)	X	1
50	D081-4	Block Assembly	X	1
51	D081-2	Block – Cap	X	1
52	NAS1351-4-53P	Screw	X	1
53	NAS1352-3-14P	Screw	X	1
54	NAS1351-4-38P	Screw	X	1
55	NAS1149F0432P	Washer	X	2
56	D210-4	Nut	X	2
57	C050-2	Stabilizer Assembly (Ref; see Figure 53-35)		
58	C470-3	Spacer (Ref; revision I and prior, no longer available.)		
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		F004-2 EMPENNAGE ASSEMBLY (Cont'd)		
53-25-59	C470-3	Spacer	X	1
60	C470-1	Tail Skid	X	1
61	C470-2	Block	X	2
62	MS20426AD3	Rivet	X	4
63	C654-18	Decal – "NO HAND HOLD"	X	1
64	C654-2	Decal – "DANGER"	X	2
NOTES				

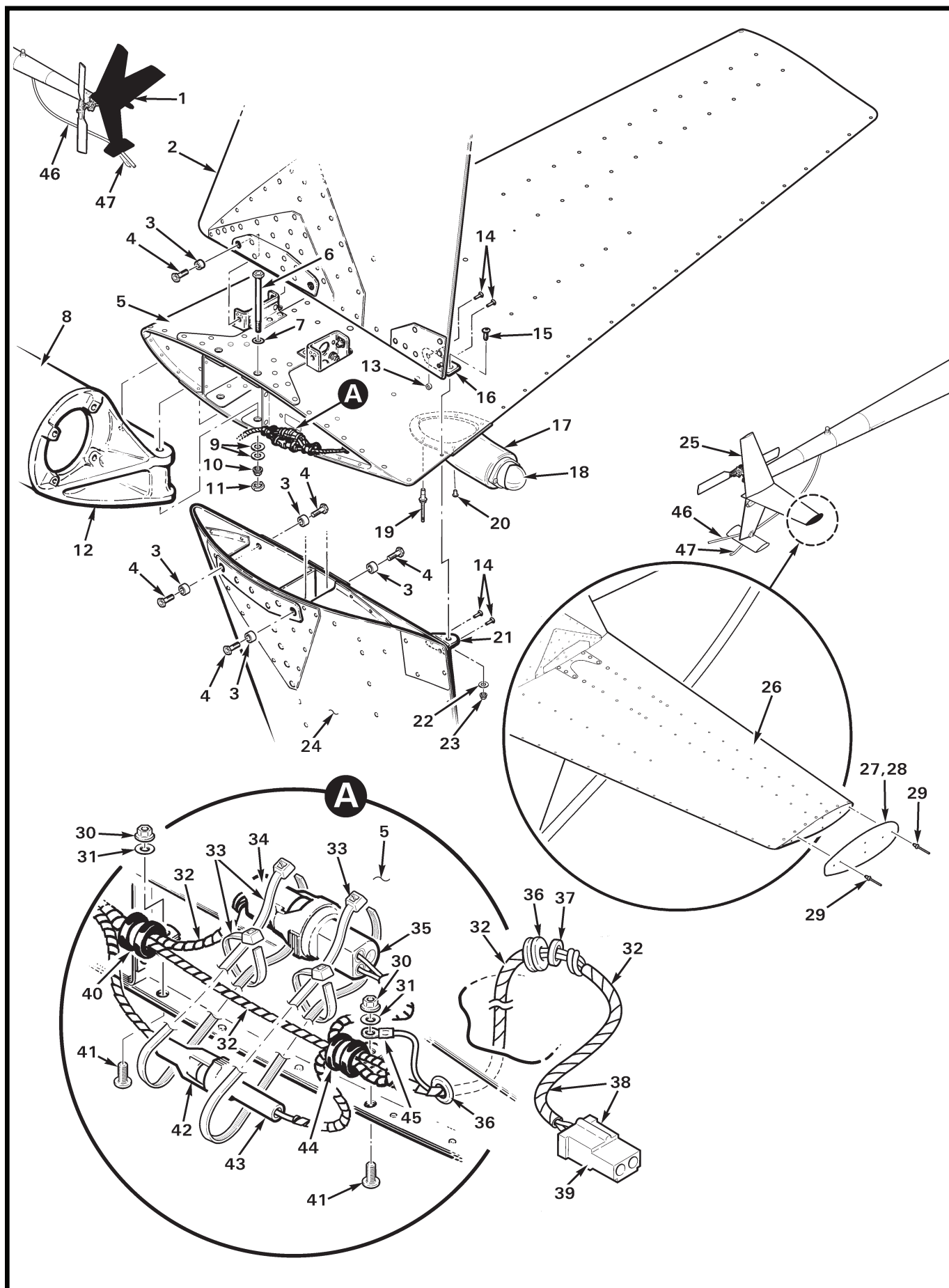


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C004-2 & -3 EMPENNAGE ASSEMBLY		
53-29-1	C004-2*	Empennage Assembly (Incl items 2 thru 5, 13 thru 16, and 21 thru 24)	X	1
2	C042-1	Stabilizer – Upper Vertical (does not include items 13, 14, and 16)	X	1
3	C130-9	Spacer	X	8
4	NAS6604-6	Bolt	X	8
5	C044-1*	Stabilizer – Horizontal (Includes items 17, 19, 20, 28 and 38; does not include item 18.)	X	1
6	NAS6606-47	Bolt (or NAS6606-48)	X	2
7	NAS1149F0632P	Washer	X	2
8	C023-21, -24, -34, -35	Tailcone Assembly (Ref; see Figure 53-21.)		
9	NAS1149F0663P	Washer (under nut, as required to meet torque requirements per R66 MM § 20-30 Part E.)	X	A/R
10	D210-6	Nut	X	2
11	B330-19	Palnut	X	2
12	C148	Bulkhead (Ref)		
13	A130-14	Spacer	X	1
14	MS20470AD4	Rivet	X	4
15	MS35206-228	Screw	X	1
16	C554-2	Clip – Upper Vertical Stabilizer	X	1
17	C529-1	Mount Assembly – Tail Light	X	1
18	01-0771554-01**	Light Assembly – Tail Light (Ref; see Figure 33-3)		
19	NAS1919B04S02	Rivet	X	3
20	MS20470AD4	Rivet (or NAS1919B04S02, optional)	X	2
21	C554-1	Clip – Lower Vertical Stabilizer	X	1
22	NAS1149FN616P	Washer	X	1
23	MS21042L06	Nut	X	1
24	C043-1	Stabilizer – Lower Vertical (does not include item 21)	X	1
25	C004-3*	Empennage Assembly (Float ships. Includes items 2 thru 4, 13 thru 16, 21 thru 24, and 26.)	X	1
26	C044-2*	Stabilizer – Horizontal (Float ships. Includes items 17, 19, 20, 27, 28, and 38.)	X	1
27	D298-1	Plate (seal all around plate in joint, where plate attaches to stabilizer using item 28)	X	1
28	B270-1	Sealant	X	A/R
29	NAS9302B-4-02	Rivet	X	6
30	MS21042L08	Nut	X	2
NOTES * May not be installed if F955-1 bracket is installed on tailcone see Figures 53-17 & 53-21. ** Whelen part number.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C004-2 & -3 EMPENNAGE ASSEMBLY (Cont'd)		
53-29-31	NAS1149FN816P	Washer	X	2
32	B161-2	Spirap	X	A/R
33	MS337-5-9	Ty-Rap	X	A/R
34	B264-13	Plug (Ref; see Figure 53-21)		
	B264-2	Socket (Ref)		
35	B264-12	Housing (Ref; see Figure 65-9)		
	B264-1	Pin (Ref)		
36	MS35489-4	Grommet	X	1
37	90295A075	Washer	X	1
38	D049-3	Wire Harness Assembly – Tail Light (Includes items 32, 36, 37, 39, 43, 45, and wires. No longer available, replaced by D049-8, also order item 48 as required.)	O	1
39	B263-13	Housing	X	1
	B263-2	Socket	X	2
40	MS21919WDG3	Clamp	X	1
41	MS27039C0806	Screw	X	2
42	B264-11	Plug (Ref; see Figure 53-21)		
	B264-2	Socket (Ref)		
43	B264-10	Receptacle	O	1
	B264-1	Pin	O	1
44	MS21919WDG2	Clamp	X	1
45	B260-3	Terminal	X	1
46	D079-1	Tail Rotor Guard Assembly (Ref; see Figure 53-25)		
47	C470-1	Tail Skid (Ref; see Figure 53-25)		

48	KI-276	R44-series and R66 B264-XX Connector Upgrade Kit Instructions (Replaces obsoleted B264-XX connectors with B263-XX connectors on: C049-1 tail rotor seal chip detector harness assembly, C023 tailcone aft wire harness, and tail light wire on C044 horizontal stabilizer harness.)	X	A/R
NOTES				

Intentionally Blank

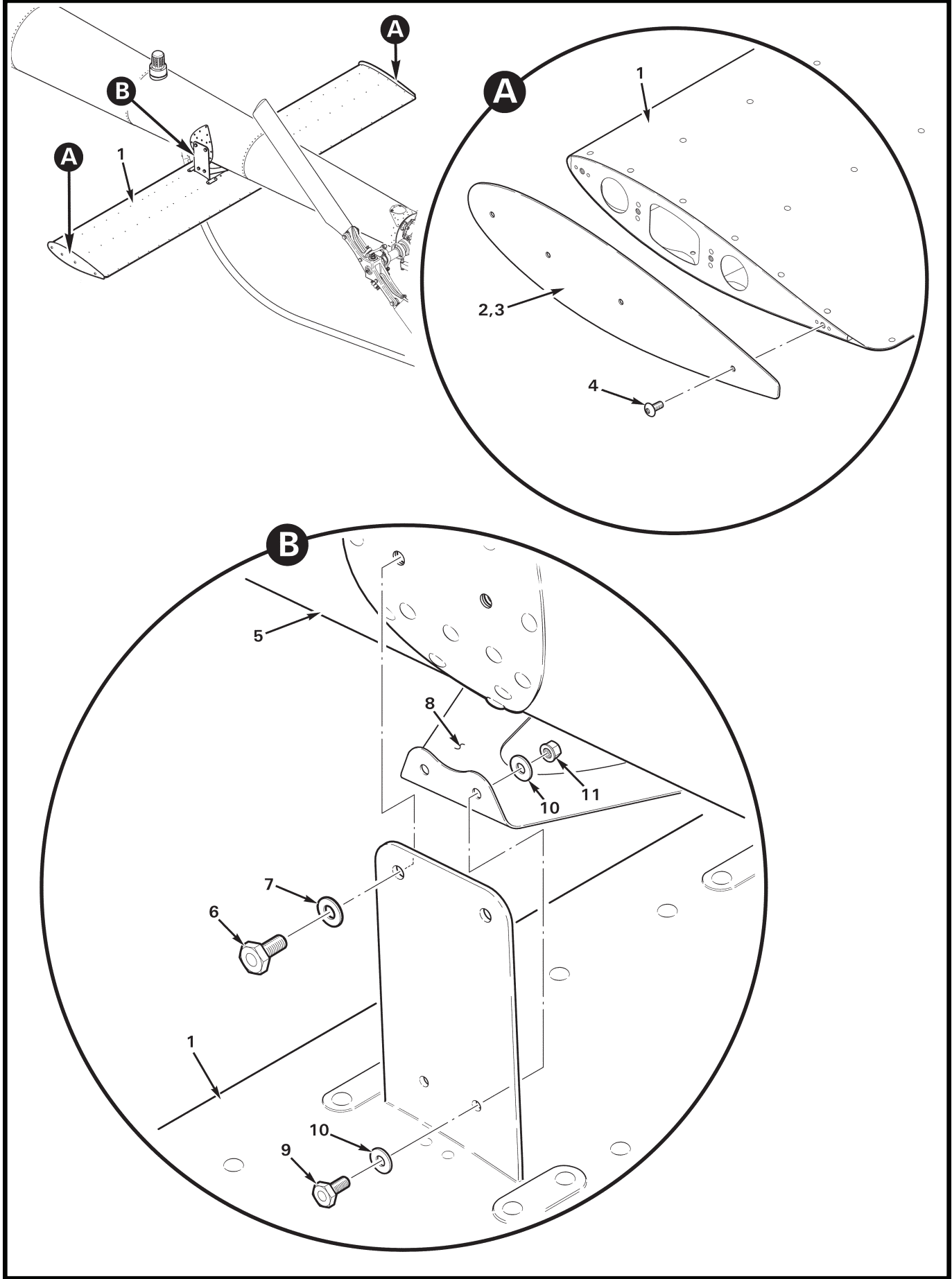


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		F050-2 HORIZONTAL STABILIZER INSTALLATION		
53-33-1	F050-2	Horizontal Stabilizer Assembly (Incl items 2 thru 4)	X	1
2	F953-2	Plate (seal all around plate in joint where plate attaches to stabilizer using item 3)	X	2
3	B270-1	Sealant	X	A/R
4	B526-66	Screw (do not substitute)	X	8
5	C023-21, -34, -35*	Tailcone Assembly (Ref)		
6	NAS6604-3*	Bolt (Ref)		
7	NAS1149F0432P*	Washer (Ref)		
8	F955-1*	Bracket (Ref)		
	F955-6*	Bracket (Ref)		
9	NAS6603-2*	Bolt (Ref)		
10	NAS1149F0332P*	Washer (Ref)		
11	D210-3*	Nut (Ref)		

12	MT023-2	Support (Temporarily installed to support item 8 when item 1 is not installed.)	X	2
NOTES * See Figures 53-17 & 53-21.				

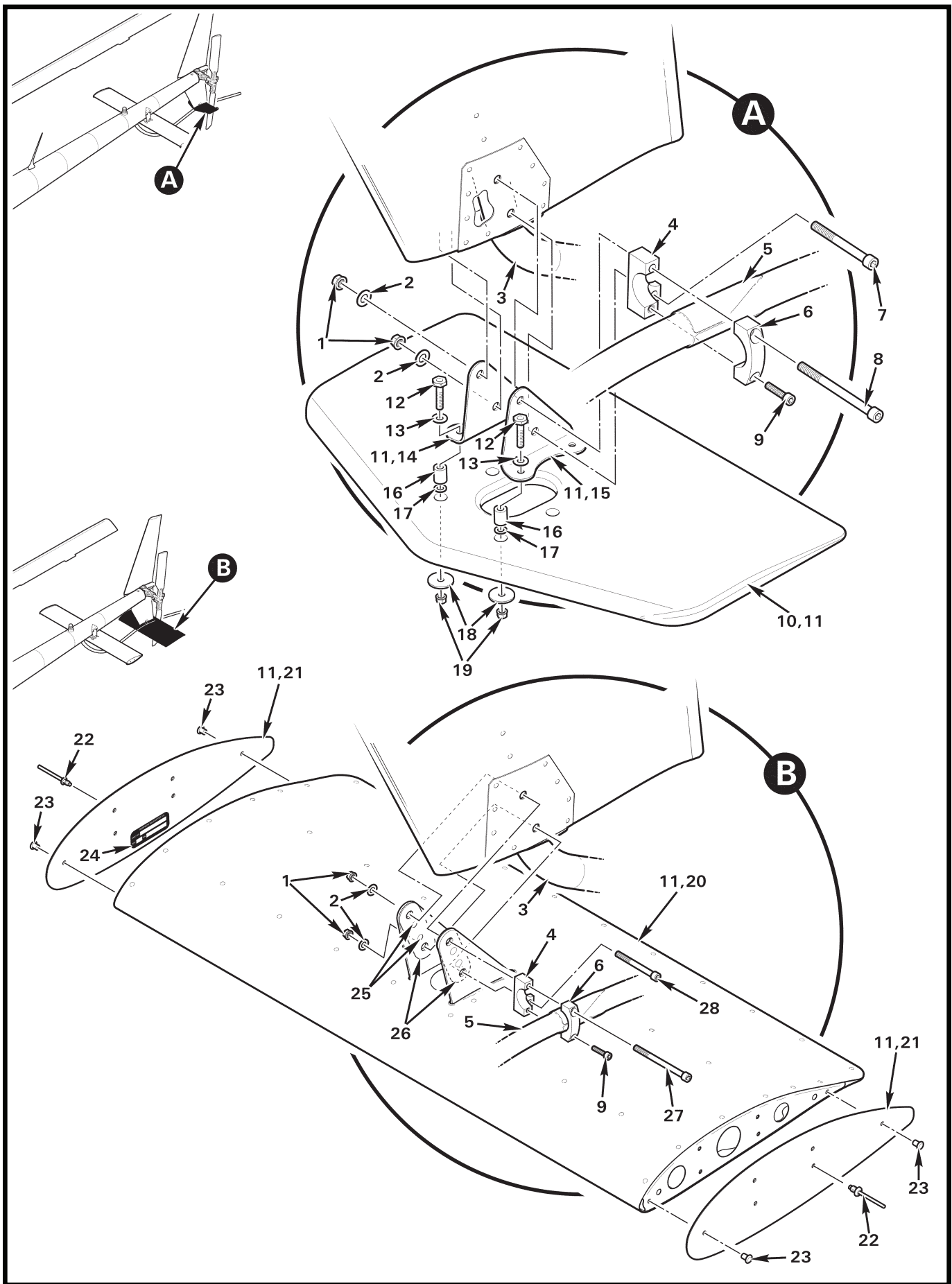


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C050-2/G950-2 STABILIZER INSTALLATION		
53-35-1	D210-4	Nut	X	2
2	NAS1149F0432P	Washer	X	2
3	C470-1	Tail Skid (Ref, see Figure 53-25)		
4	D081-4	Block Assembly	X	1
5	D079-1	Tail Rotor Guard (Ref)		
6	D081-2	Block – Cap	X	1
7	NAS1351-4-38P	Screw	X	1
8	NAS1351-4-53P	Screw	X	1
9	NAS1352-3-14P	Screw	X	1
10	C050-2	Stabilizer Assembly	X	1
11	B270-1	Sealant (applied around stabilizer bracket edges, between brackets and C716 doubler; 2-oz tube)	X	A/R
12	NAS6603-9	Bolt	X	4
13	NAS1149F0332P	Washer	X	4
14	C971-4	Bracket (install using item 11 around edges)	X	1
15	C971-3	Bracket (install using item 11 around edges)	X	1
16	A130-35	Spacer	X	4
17	NAS620-10L *	Washer	X	A/R
18	A141-18	Washer	X	4
19	MS21042L3	Nut	X	4
20	G950-2	Stabilizer Assembly – Pop-out Floats (Incl items 11, 21 and 22)	X	1
21	G952-3	Plate	X	2
22	NAS9302B-4-02	Rivet	X	8
23	MS20426AD4	Rivet	X	4
24	A651-1	Data Plate	O	1
25	NAS1097AD3	Rivet (install with head inboard, bucked end flush or recessed 0.110-in. dia. min)	X	4
26	G953-15	Spacer	X	2
27	NAS1351-4-56P	Screw	X	1
28	NAS1351-4-40P	Screw	X	1

29	KI-267-1 **	R66 Float Stabilizer Installation Upgrade Kit Instructions (upgrades G950-2 Float Stabilizer Revision C to Revision E; refer to R66 SB-33)	X	A/R
30	KI-267-2 **	R66 Float Stabilizer Installation Kit Instructions (replaces G950-1 Float Stabilizer with G950-2 Stabilizer Revision E; refer to R66 SB-33)	X	A/R
NOTES * Install under item 18, (4 places) if stabilizer is more than 0.015-inch thicker than spacer length. ** See https://robinsonheli.com for kit contents and instructions.				

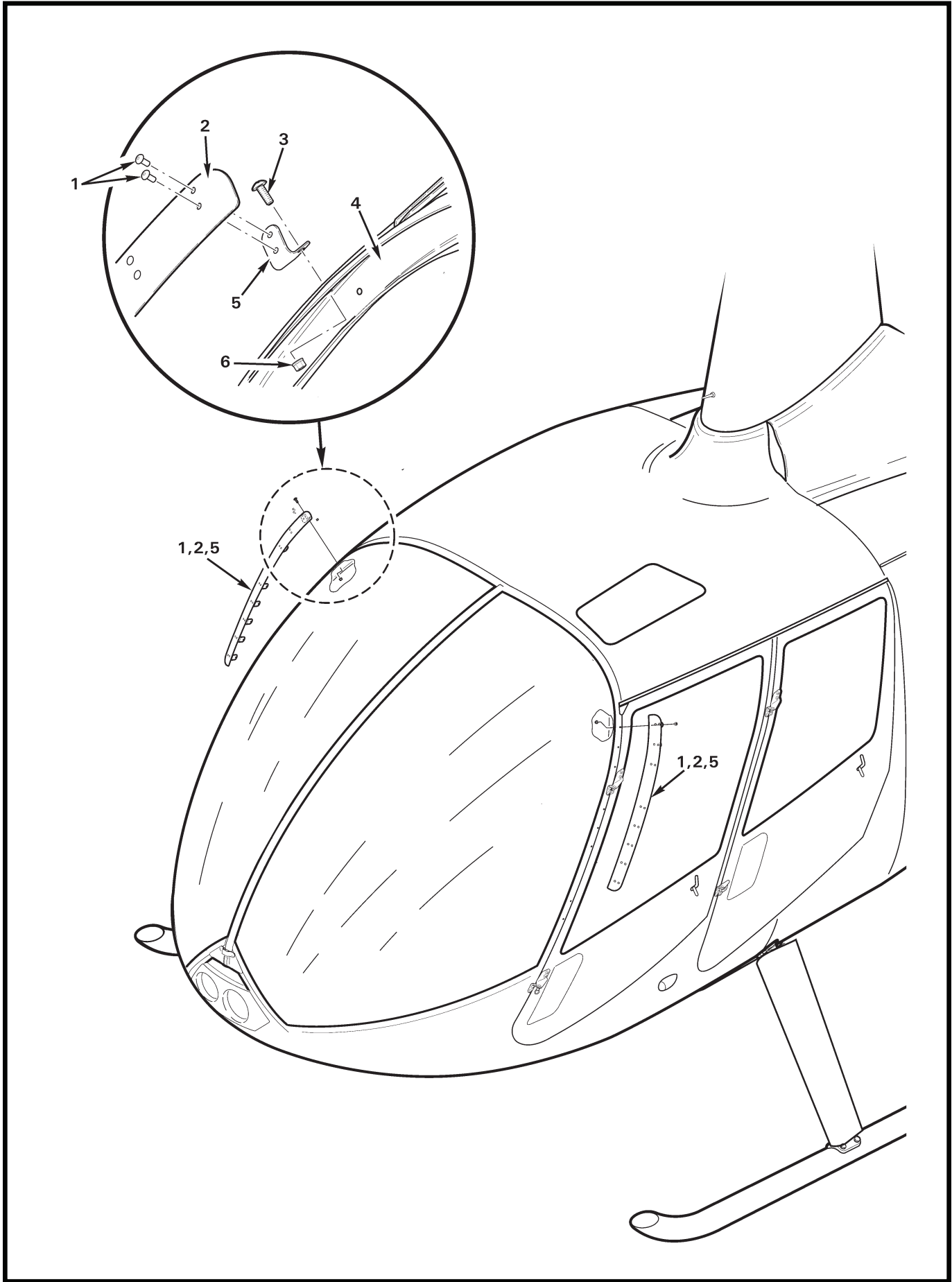


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		WIND DEFLECTOR INSTALLATION		
53-37-1	MS20470AD4	Rivet	X	32
2	B228-1	Deflector (LH or RH)	X	2
3	AN526C832R8	Screw	X	16
4	—	Door Jamb (Ref)		
5	B228-2	Angle	X	16
6	MS21042L08	Nut	X	16
NOTES				

Intentionally Blank