

CHAPTER 67

FLIGHT CONTROLS

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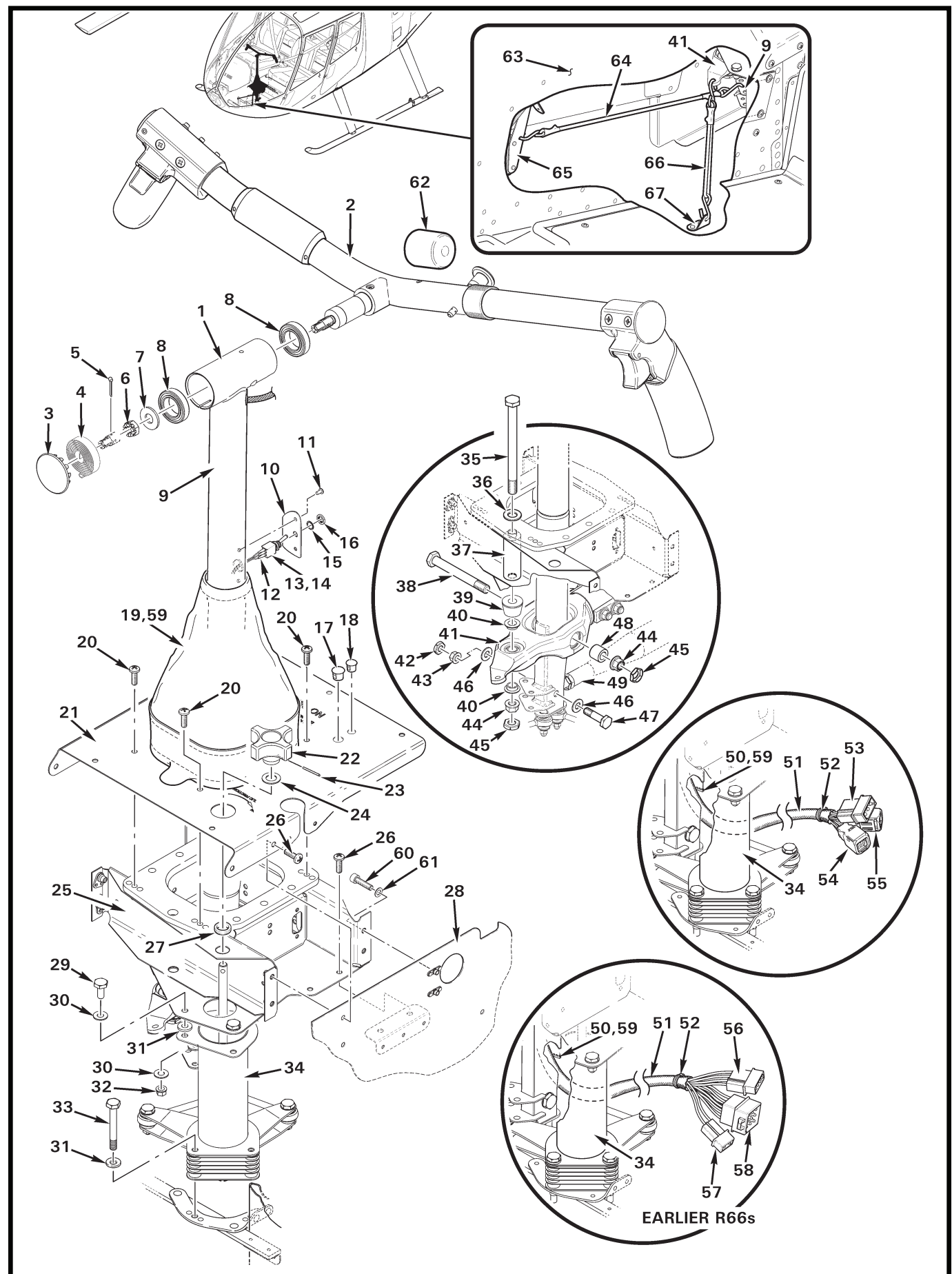


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC CONTROL SYSTEM		
67-1-1	C069-14	Cyclic Control Assembly (Incl items 2 thru 9, 11, 13, 19, 21, 25, 37, 39 thru 45, 48, and 51 thru 55)	X	1
	C069-8	Cyclic Control Assembly (Ref, no longer available)		
2	C058-10	Grip Assembly – Cyclic (see Figure 67-11)	X	1
3	B209-4	Plug	X	1
4	D684-1	Spring	X	1
5	MS24665-69	Cotter Pin	X	1
6	MS17825-5	Nut	X	1
7	A141-40	Washer	X	1
8	A647-2	Bearing	X	2
9	D320-8	Stick Assembly (Ref)		
10	B306-4	Mount	X	1
11	SR-3035B	Rivet	X	2
12	B158-1	Heat Shrink (around terminals)	X	A/R
13	C049-9	Switch Assembly – Landing Light (Incl items 10, 12, 14, and wires)	X	1
14	B300-1	Switch (Incl items 15 and 16)	X	1
15	B227-3	Lockwasher	X	1
16	B227-11	Dress Nut	X	1
17	2613	Hole Plug	X	1
18	2603	Hole Plug	X	1
19	A677-4	Boot (install using item 59)	X	1
20	MS27039C0808	Screw	X	4
21	F444-2	Cover Assembly – Cyclic	X	1
	F444-1	Cover Assembly – Cyclic	O	1
22	A499-2	Knob	X	1
23	MS16562-35	Spring Pin	X	1
24	NAS1149F0432P	Washer (or NAS1149F0463P)	X	A/R
25	F338-1	Cyclic Box Assembly	O	1
26	MS27039C0806	Screw	X	14
27	NAS557-6A	Grommet	X	1
28	—	Keel Panel (Ref)		
29	NAS6603-2	Bolt	X	2
30	NAS1149F0332P	Washer	X	4
31	NAS1149F0363P	Washer	X	4
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
CYCLIC CONTROL SYSTEM (Cont'd)				
67-1-32	MS21042L3	Nut	X	5
33	NAS6603-18	Bolt	X	2
34	C048-1	Cyclic Friction Assembly (Ref; see also Figure 67-19)		
35	NAS6605-56	Bolt	X	1
36	NAS1149F0532P	Washer	X	1
37	A130-6	Spacer	X	1
38	NAS1305-35	Bolt	X	5
39	A339-1	Spacer	X	1
40	A340-1	Spacer	X	2
41	C177-5	Pivot Assembly	X	1
42	B330-13	Palnut	X	1
43	D210-4	Nut	X	1
44	D210-5	Nut	X	2
45	B330-16	Palnut	X	2
46	NAS1149F0432P	Washer	X	1
47	NAS6604-9	Bolt	X	1
48	C105-3	Journal	X	1
49	C121-1	Push-Pull Tube (Ref, see Figure 67-5)		
50	MS21266-1N	Grommet (install using item 59)	X	A/R
51	B266-8	Sleeving	X	A/R
52	B268-3	Lacing Tape (at both ends of sleeve)	X	A/R
53	B263-14	Housing	X	1
	B263-1	Pin	X	3
54	D269-11	Plug (includes [9] M39029/57-354 sockets)	X	1
55	D269-9	Plug (includes [9] M39029/58-360 pins)	X	1
56	B263-36	Housing	X	1
	B263-1	Pin	X	4
57	B263-12	Housing	X	1
	B263-1	Pin	X	2
58	B263-20	Housing	X	1
	B263-1	Pin	X	9
59	B270-8.5oz	Adhesive	X	A/R
60	NAS1352-08-6P	Screw	X	4
61	NAS620-8L	Washer	X	4
62	A959-5	Cap	X	1
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC CONTROL SYSTEM (Cont'd)		
67-1-63	F033	Lower Console Assembly (Ref)		
64	D918-1	Elastic Cord Assembly (3 lb ± 0.25)	X	1
65	F407-5	Gusset (Ref)		
66	D918-2	Elastic Cord Assembly (5 lb ± 0.50)	X	1
67	A748-8	Angle (Ref)		
NOTES				

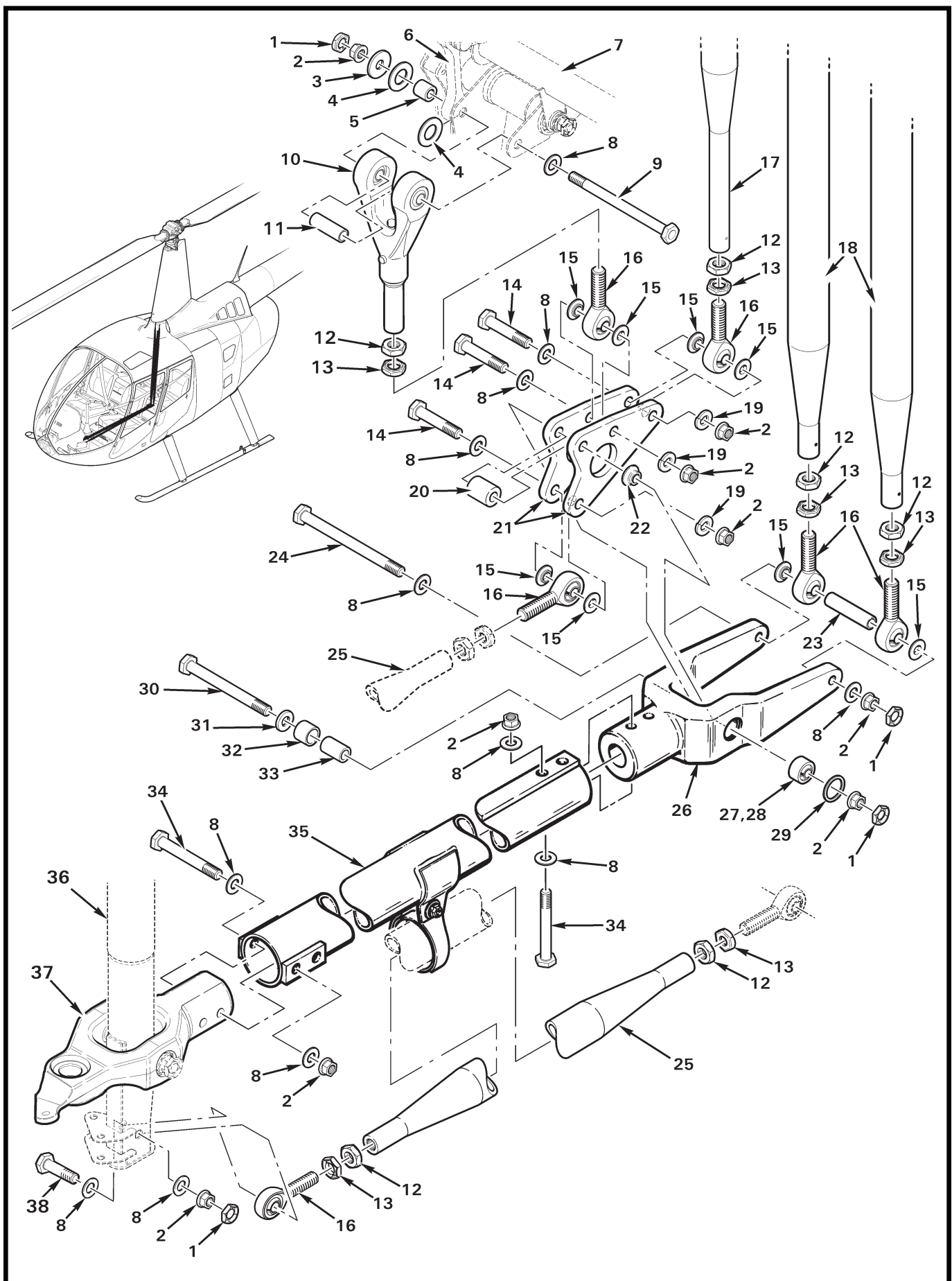


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC PIVOT ASSEMBLY AND TORQUE TUBE		
67-5-1	B330-13	Palnut	X	4
2	D210-4	Nut	X	11
3	A214-3	Washer	X	1
4	A214-11	Washer	X	2
5	A105-14	Journal	X	1
6	C327-1	Link Assembly (Ref, see Figure 67-33)		
7	F334	Aft Support Assembly (Ref, see Figure 67-33)		
8	NAS1149F0432P	Washer	X	16
9	NAS6604-37	Bolt	X	1
10	G205-1	Fork Assembly	X	1
11	C130-12	Spacer	X	1
12	AN316-5R	Nut	X	6
13	B330-16	Palnut	X	6
14	NAS6604-15	Bolt	X	3
15	A115-1	Spacer	X	8
16	B163-2*	Rod End	X	6
17	F121-7	Push-Pull Tube (Incl items 12, 13 and 16, [1] each)	X	1
18	F121-5	Push-Pull Tube (Incl items 12, 13 and 16, [1] each)	X	2
19	B332-441	Lockwasher	X	3
20	A130-8	Spacer	X	1
21	C958-6	Bellcrank	X	2
22	A137-1	Spacer	X	1
23	C130-47	Spacer	X	1
24	NAS6604-47	Bolt	X	1
25	C121-1	Push-Pull Tube Assembly (Incl item 12, 13, and 16)	X	1
26	D696-6	Yoke Assembly (Incl items 27 thru 29, and 32)	X	1
27	A103-4	Bearing (install using item 28)	X	1
28	B270-11	Adhesive	X	A/R
29	WH-62-S02	Ring	X	1
30	NAS6604-36	Bolt	X	1
31	NAS1149F0463P	Washer	X	1
32	O6DU06	Bearing	X	1
33	A105-6	Journal	X	1
34	NAS6604-25	Bolt	X	4
35	C319-5	Torque Tube Assembly	X	1

NOTES * Coat all threads with A257-2 or A257-22 oil before assembly.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC PIVOT ASSEMBLY AND TORQUE TUBE (Cont'd)		
67-5-36	C069	Cyclic Control Assembly (Ref, see Figure 67-1)		
37	C177-5	Pivot Assembly (Ref, see Figure 67-1)		
38	NAS6604-9	Bolt (Ref, see Figure 67-1)		
39	C175-5	Pivot Assembly – Cyclic (Incl items 1 thru 5, 8 thru 16, 19 thru 26, 30, 31, and 33 thru 35)	O	1
NOTES				

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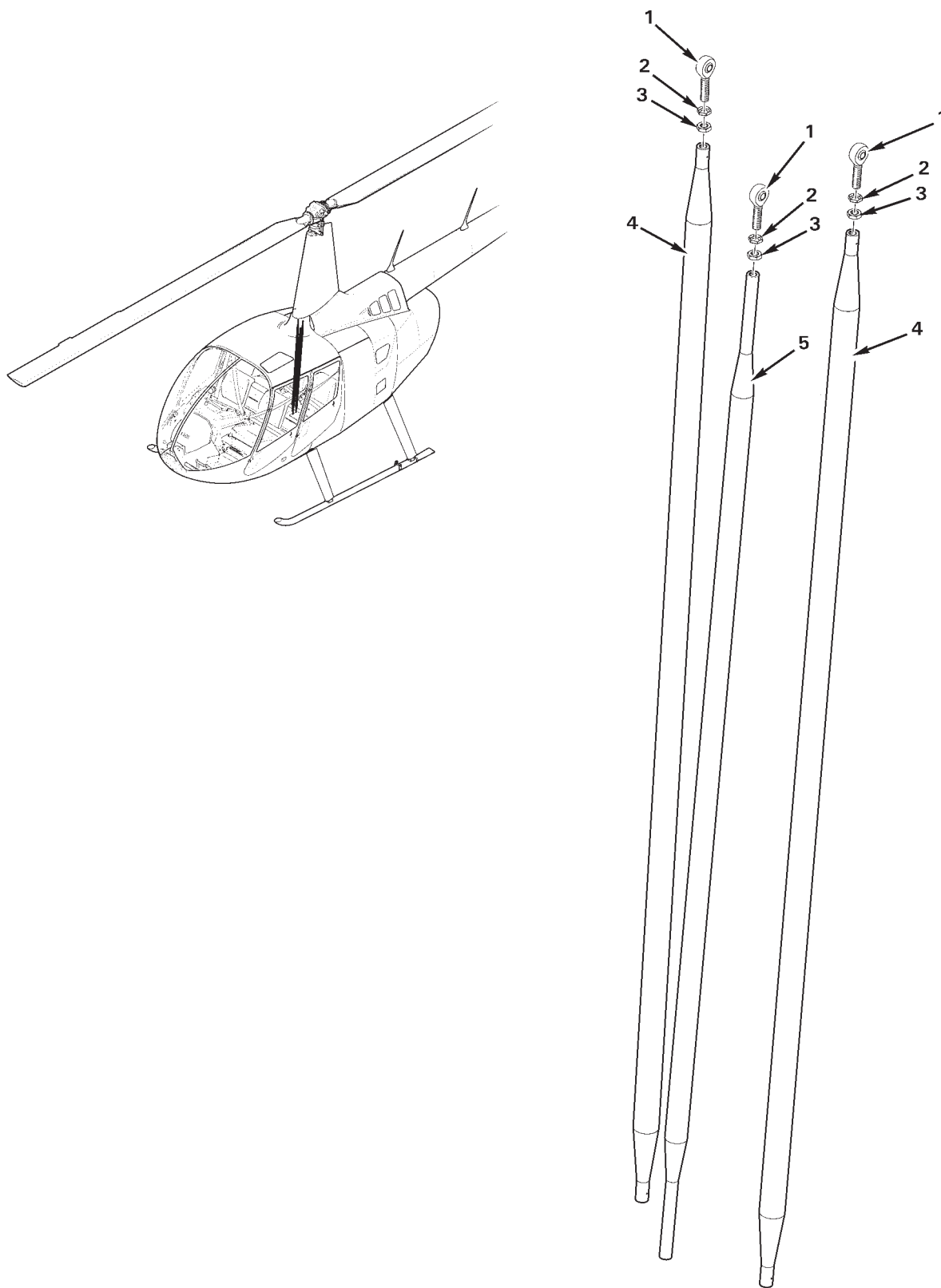


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PUSH-PULL TUBE ASSEMBLIES (LOWER)		
67-9-1	B163-2*	Rod End	X	1
2	B330-16	Palnut	X	1
3	AN316-5R	Nut	X	1
4	F121-5	Push-Pull Tube Assembly (Incl items 1 thru 3, [1] each)	X	2
5	F121-7	Push-Pull Tube Assembly (Incl items 1 thru 3, [1] each)	X	1
NOTES * Coat all threads with A257-2 or A257-22 oil before assembly.				

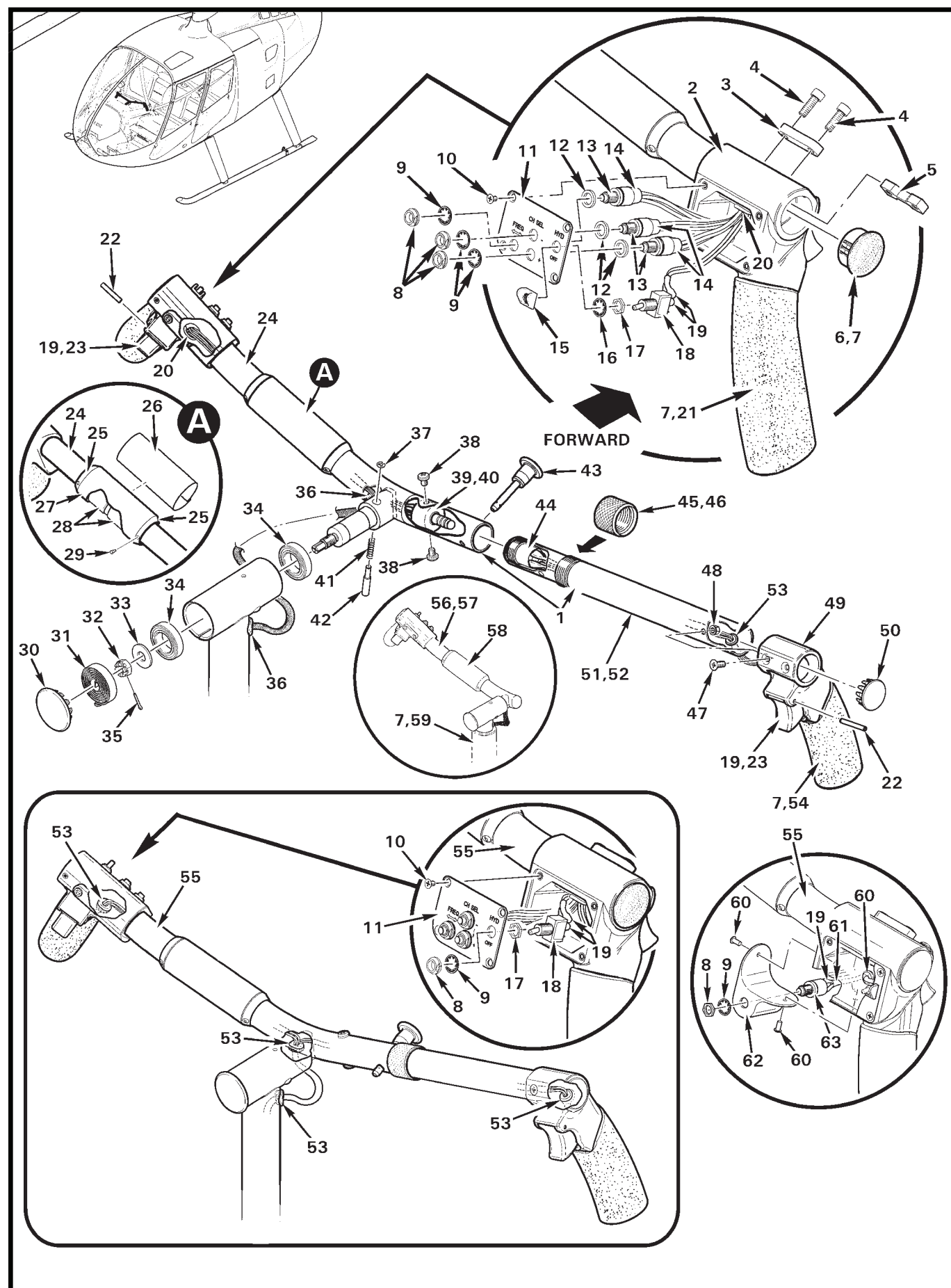


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY		
67-11-1	C058-10	Grip Assembly – Cyclic (Incl items 2 thru 7, 10, 11, 13 thru 15, 18 thru 29, 36 thru 50, and 52 thru 54)	X	1
2	D379-1	Grip	X	1
3	D443-5	Bar	X	1
4	91251A194	Screw	X	2
5	D443-3	Block Assembly	X	1
6	2703	Hole Plug (install using item 7)	X	1
7	B270-15	Adhesive	X	A/R
8	B227-4	Dress Nut	X	1
9	B227-3	Lockwasher	X	1
10	MS24693-S1	Screw	X	4
11	C214-24	Plate	X	1
12	94773A770	Washer	X	3
13	B227-2	Switch Assembly (“FREQ” and “CH SEL” [2]; includes items 8, 9, and 12)	X	3
14	B158-6	Heat Shrink	X	A/R
15	D443-7	Guard	X	1
16	—	Lockwasher	O	1
17	—	Hex Nut (5/16”)	O	1
18	B300-3	Switch Assembly – “HYD OFF” (includes items 16 and 17) . .	X	1
19	B158-2	Heat Shrink	X	A/R
20	NAS557-6A	Grommet	X	A/R
21	D379-2	Cover (install using item 7)	X	2
22	NAS1407N9L14	Pin	X	2
23	U2-279	Trigger Switch	X	2
24	A756-24	Grip Weldment (Revision A1 and subsequent)	O	1
25	G725-3	Collar	X	2
26	F654-4	Decal (flight limitations)	X	1
	F654-28	Decal (flight limitations, Police ships)	X	1
	G682-14	Decal (flight limitations, E.N.G. ships)	X	1
27	G725-2	Tube	X	1
28	B175-12	Loop Tape	X	A/R
29	SR-2032B	Rivet	X	4
30	B209-4	Plug	X	1
31	D684-1	Spring	X	1
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY (Cont'd)		
67-11-32	MS17825-5	Nut	X	1
33	A141-40	Washer	X	1
34	A647-2	Bearing	X	2
35	MS24665-69	Cotter Pin	X	1
36	G1042	Grommet	X	2
37	MS16633-2012	Retaining Ring	X	1
38	MS35206-241	Screw	X	2
39	A776-1	Mount	X	1
40	A781-1	Plug	X	1
41	D774-6	Spring	X	1
42	A321-16	Pin	X	1
43	B232-1	Pin	X	1
44	TJT-120	Jack	X	1
45	A321-22	Collar	X	1
46	A257-7	Dry Film Lube	X	A/R
47	MS24694-S3	Screw	X	2
48	MS21042L08	Nut	X	2
49	D690-1	Grip	X	1
50	B209-3	Plug	X	1
51	C058-9	Grip Assembly – Co-Pilot (Incl items 7, 19, 22, 23, 43 thru 50, and 52 thru 54; for spares)	X	1
52	A321-21	Tube	X	1
53	MS35489-4	Grommet	X	A/R
54	D690-2	Cover (install using item 7)	X	1
55	A756-24	Grip Weldment (Ref; revision AH)		
56	C058-11*	Grip Assembly – Cyclic (includes items 2 thru 7, 13 thru 15, 25, 27 thru 29, 36, 37, 41, 42, 57, and 58)	X	1
57	A756-20*	Grip Weldment (Ref)		
58	F654-28*	Decal (flight limitations, Police ships)	X	1
59	A601-3*	Grip (install using item 7)	X	1
60	MS20470AD3**	Rivet	X	2
61	B158-6**	Heat Shrink	X	A/R
62	G136-8**	Housing	X	1
63	B227-2**	Switch Assembly (Audio Panel transmit key [pilot]; includes items 8 and 9)	X	1
	C058-2329**	Wire (Ref)		
	C058-2441**	Wire (Ref)		

NOTES * Earlier R66 police ships.
 ** Geneva Audio push to talk button for E.N.G. ships.

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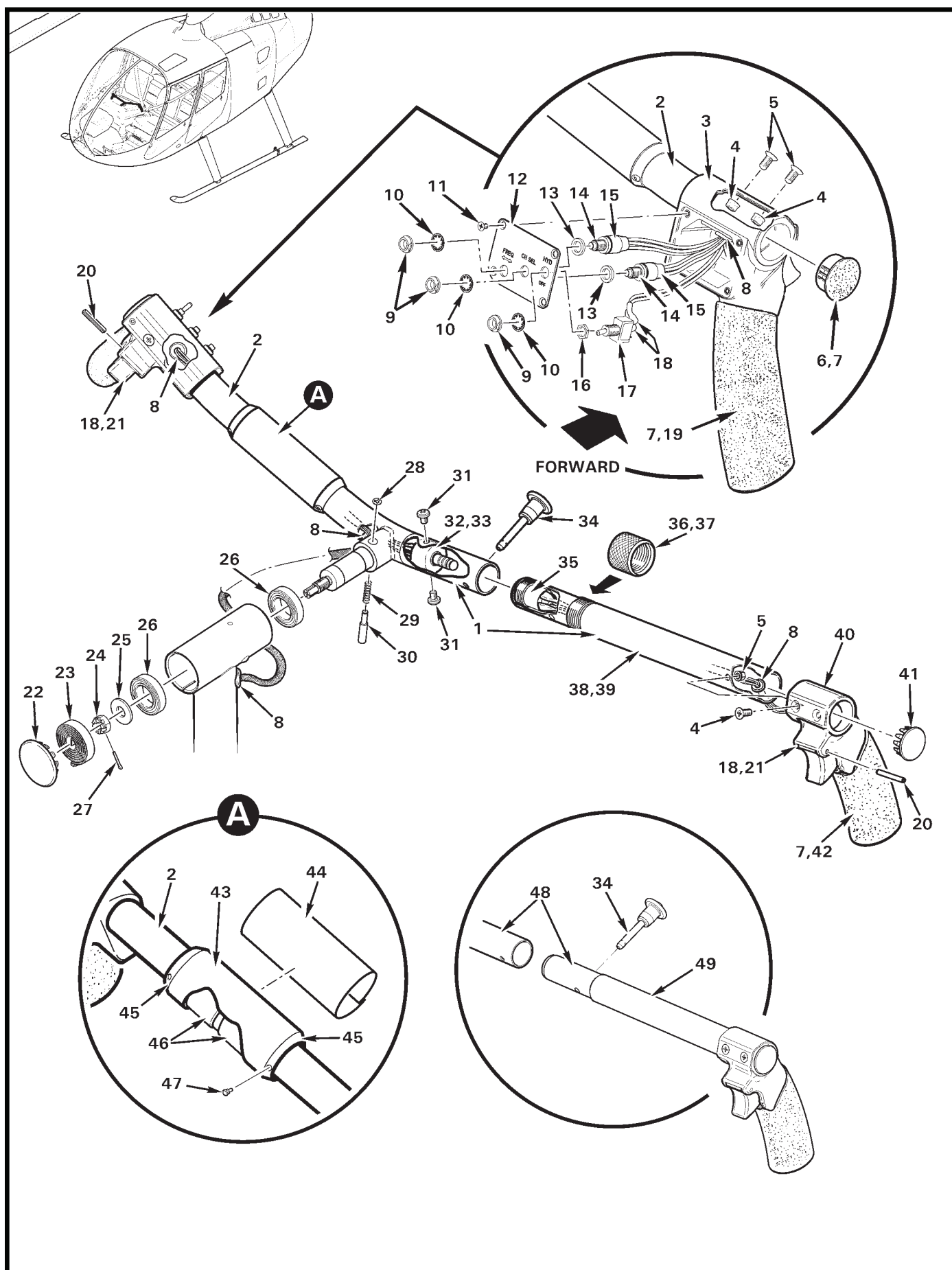


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY		
67-15-1	C058-10*	Grip Assembly – Pilot/Co-Pilot (Ref; revision AL)		
2	A756	Grip Weldment (Ref; non-adjusting grip [item 3])		
3	D379-1	Grip	X	1
4	MS21042L08	Nut	X	4
5	MS24694-S3	Screw	X	4
	MS24694-S4	Screw (used with item 48)	X	4
6	2703	Hole Plug (install using item 7)	X	1
7	B270-15	Adhesive	X	A/R
8	MS35489-4	Grommet	X	4
9	B227-4	Dress Nut	X	1
10	B227-3	Lock Washer	X	1
11	MS24693-S1	Screw	X	4
	MS24693-S2	Screw (used with item 48)	X	4
12	C214-10	Plate	X	1
13	94773A770	Washer	X	1
14	B227-2	Switch (“FREQ” and “CH SEL”, includes items 9, 10, and 13)	X	2
15	B158-6	Heat Shrink	X	A/R
16	—	Hex Nut (5/16 in.)	O	1
17	B300-3	Switch (“HYD OFF”, includes item 16 and lockwasher [not shown])	X	1
18	B158-2	Heat Shrink	X	A/R
19	D379-2	Cover (install using item 7)	X	1
20	NAS1407N9L14	Pin	X	2
21	U2-279	Trigger Switch	X	2
22	B209-4	Plug	X	1
23	D684-1	Spring	X	1
24	MS17825-5	Nut	X	1
25	A141-40	Washer	X	1
26	A647-2	Bearing	X	2
27	MS24665-69	Cotter Pin	X	1
28	MS16633-2012	Retaining Ring	X	1
29	D774-6	Spring	X	1
30	A321-16	Pin	X	1
31	MS35206-241	Screw	X	2
32	A776-1	Mount	X	1

NOTES * Some parts/assemblies no longer available. To replace refer to Figure 67-11.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY (Cont'd)		
67-15-33	A781-1	Plug	X	1
34	B232-1	Pin	X	1
35	TJT-120	Jack	X	1
36	A321-22	Collar	X	1
37	A257-7	Dry Film Lubricant	X	A/R
38	C058-9*	Grip Assembly – Co-Pilot (Adjustable, revision AL. Includes items 4, 5, 7, 8, 20, 21, 34, 35, 40 thru 42.)	X	1
39	A321-19	Tube (Ref)		
40	D690-1	Grip	X	1
41	B209-3	Plug	X	1
42	D690-2	Cover (install using item 7)	X	1
43	G725-2	Tube	X	1
44	F654-4	Decal (flight limitations)	X	1
45	G725-3	Collar	X	2
46	B175-12	Loop Tape	X	A/R
47	SR-2032B	Rivet	X	4

48	C058-10*	Grip Assembly – Pilot/Co-Pilot (Ref; revision AK and prior)		
49	C058-9	Grip Assembly – Co-Pilot (Ref; revision AK and prior, non-adjusting. To replace, order item 38.)		
NOTES * Some parts/assemblies no longer available. Refer to Figure 67-11 for replacement.				

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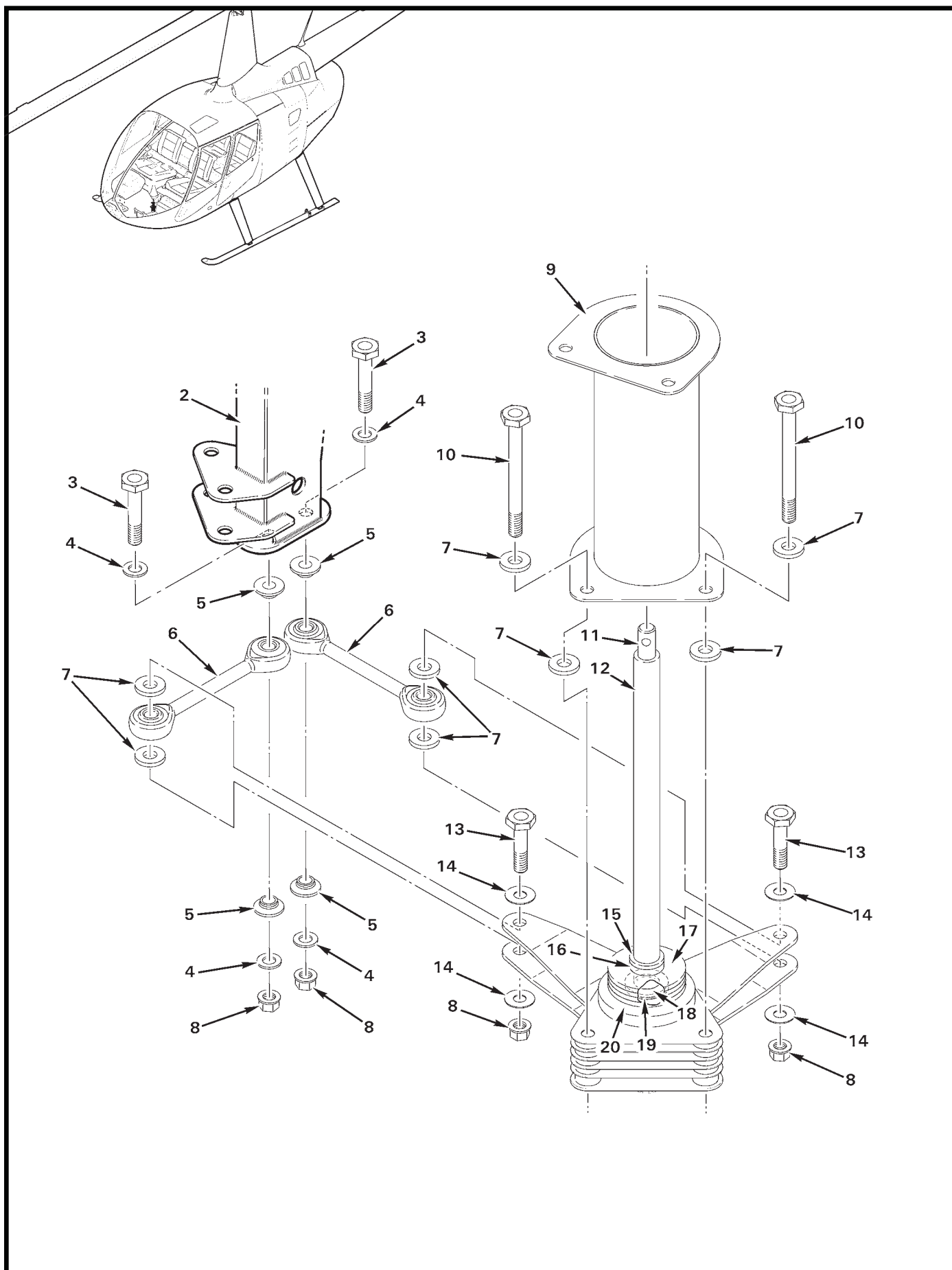


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC FRICTION ASSEMBLY		
67-19-1	C048-1	Cyclic Friction Assembly (Incl items 6 thru 20)	X	1
2	C069	Cyclic Control Assembly (Ref, see Figure 67-1)		
3	NAS6603-11	Bolt	X	2
4	NAS620-10L	Washer	X	4
5	A341-1	Spacer	X	4
6	B564-1	Link	X	2
7	NAS1149F0363P	Washer	X	8
8	D210-3	Nut	X	4
9	D337-1	Torque Tube Weldment	X	1
10	NAS6603-27	Bolt	X	2
11	C494-1	Shaft (Ref)		
12	C130-2	Spacer	X	1
13	NAS6603-8	Bolt	X	2
14	NAS1149D0316J	Washer	X	4
15	NAS1149F0463P	Washer	X	1
16	A130-18	Spacer	X	1
17	A478-1	Spring Washer	X	4
18	NAS1149F0632P	Washer	X	1
19	NAS1149D0616J	Washer (installed between items 18 and 20)	X	A/R
20	A497-1	Washer (Ref)		
NOTES				

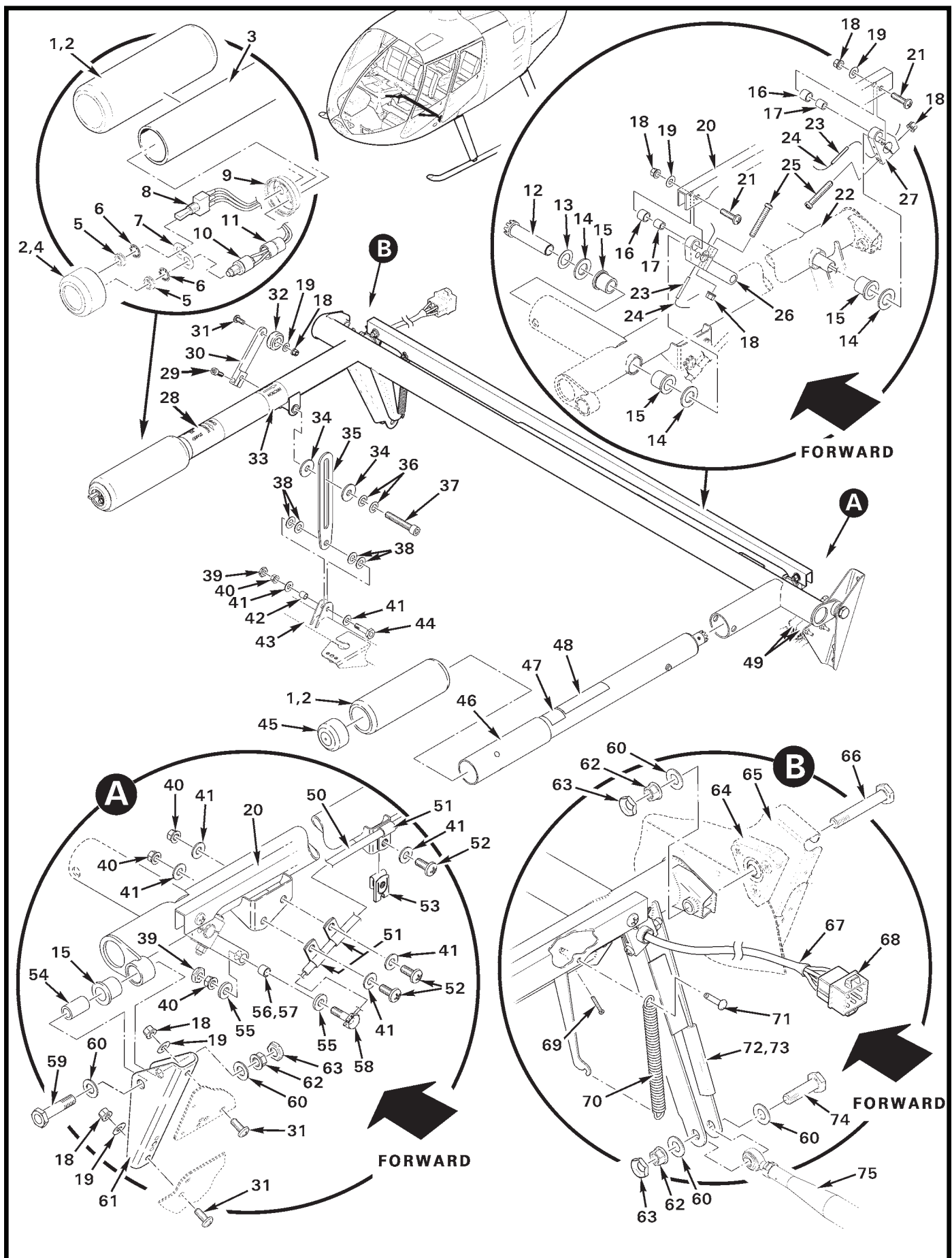


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COLLECTIVE STICK ASSEMBLY		
67-21-1	A601-1	Grip (install using item 2)	X	1
2	B270-15	Adhesive	X	A/R
3	F758-1	Stick Assembly – Collective (RH [pilot]; includes items 1, 2, 4, 8 thru 10, 12 thru 37, 39 thru 42, 51 thru 63, & 67 thru 74) . .	X	1
4	A959-2	Cap (install using item 2)	X	1
5	B227-4	Dress Nut	X	1
6	B227-3	Lockwasher	X	1
7	B252-7	Bracket	X	1
8	B280-6	Switch Assembly (Incl items 5 and 6)	X	1
9	B252-8	Mount	X	1
10	B280-5	Switch Assembly (Incl items 5, 6, and 11)	X	1
11	B158-6	Heat Shrink	X	A/R
12	A765-2	Coupling	O	1
13	NAS1149D0616J	Washer (as required for shimming)	X	A/R
14	A141-16	Washer ([2] each, co-pilot and pilot stick)	X	4
15	A139-1	Bearing	X	5
16	04DU04	Bushing	X	1
17	A105-5	Journal	X	2
18	MS21042L08	Nut	X	7
19	NAS1149FN816P	Washer	X	5
20	F328-1	Connecting Rod	X	1
21	MS27039C0810	Screw	X	2
22	F764	Stick Weldment (Ref)		
23	MS16562-18	Spring Pin	X	2
24	MS20995C32	0.032 in. dia Safety Wire	X	A/R
25	A486-2	Screw	X	2
26	A325-3	Arm	X	1
27	A325-1	Arm	X	1
28	F654-1	Decal – “THROTTLE OPEN”	X	1
29	NAS1352-08LE8P	Screw	X	1
30	A332-2	Lever	X	1
31	MS27039C0806	Screw	X	3
32	A431-1	Knob	X	1
33	A654-7	Decal – “FRICTION INCREASE”	X	1
34	A141-20	Washer	X	2
NOTES				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COLLECTIVE STICK ASSEMBLY (Cont'd)		
67-21-35	A333-1	Stop	X	1
36	B0500-022-S	Belleville Washer	X	2
37	NAS1352-4-24P	Screw	X	1
38	NAS1149F0432P	Washer (or NAS1149F0463P to adjust axial play)	X	4
39	B330-7	Palnut	X	2
40	D210-3	Nut	X	4
41	NAS1149F0332P	Washer	X	7
42	A130-4	Spacer	X	1
43	F348-1	Anchor (Ref)		
44	NAS6603-5	Bolt	X	1
45	A959-1	Cap (install using item 2)	X	1
46	C758-2	Stick Assembly – Collective (LH [Co-pilot]; includes items 45, 47, and 48)	X	1
47	A654-6	Decal – “THROTTLE OPEN”	X	1
48	A654-21	Decal – “NO STOWAGE / KEEP AREA CLEAR”	X	1
49	V3-1	Switch (Hourmeter and Low RPM Warning, Ref; see Figure 96-23)		
50	C522-10	Control Cable (Ref, see Figure 76-1)		
51	AN742-3	Clamp	X	3
52	MS27039C1-07	Screw	X	3
53	B162-4	Clipnut	X	1
54	A105-6	Journal	X	1
55	NAS1149E0363R	Washer	X	1
56	A130-48	Spacer (install using item 57)	X	1
57	A257-1	Grease	X	A/R
58	A462-4	Fitting	X	1
59	NAS6604-11	Bolt	X	1
60	NAS1149F0432P	Washer	X	5
61	F303-1	Support Assembly	X	1
62	D210-4	Nut	X	3
63	B330-13	Palnut	X	3
64	C329-3	Bearing Block Assembly (Ref)		
65	F290-1	Seat Support Assembly (RH, forward; Ref)		
66	NAS6604-17	Bolt	X	1
67	B158-3	Heat Shrink	X	A/R
NOTES				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COLLECTIVE STICK ASSEMBLY (Cont'd)		
67-21-68	B263-18	Housing	X	1
	B263-1	Pin	X	5
69	MS24665-132	Cotter Pin	X	2
70	B774-4	Spring	X	2
71	MS20392-1C13	Pin	X	2
72	MS21266-1N	Grommet (install using item 73)	X	A/R
73	B270-8qt	Adhesive	X	A/R
74	NAS6604-9	Bolt	X	1
75	F121-1	Push-Pull Tube Assembly (Ref)		
NOTES				

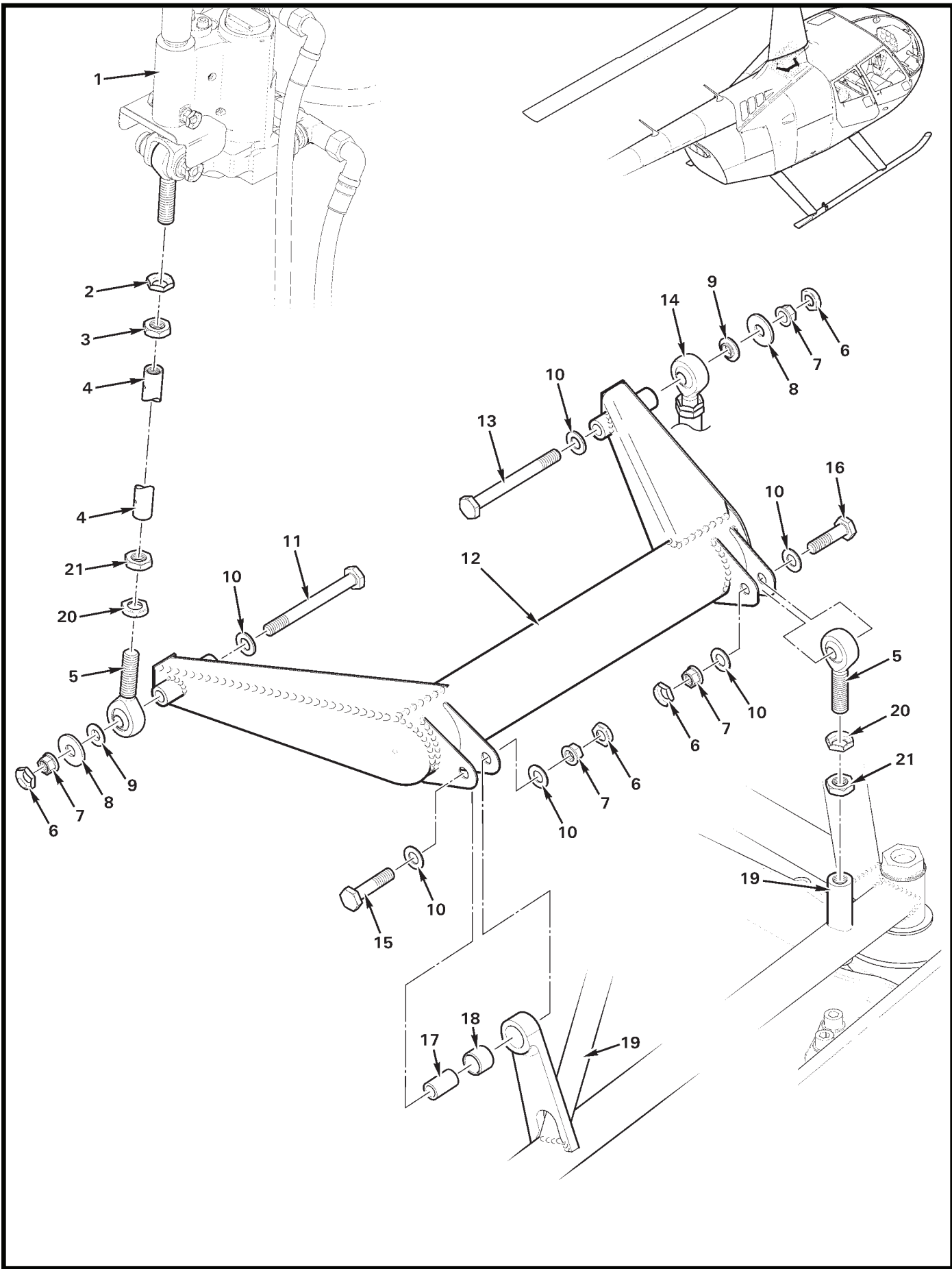


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		JACKSHAFT WELDMENT INSTALLATION		
67-25-1	D212-6	Servo Assembly (aft, Ref; see Figure 29-11)		
2	B330-16	Palnut (Ref)		
3	AN316-5R	Nut (Ref)		
4	C343-8*	Tube	X	1
5	B163-2	Rod End	X	2
6	B330-13	Palnut	X	4
7	D210-4	Nut	X	4
8	A214-3	Washer	X	2
9	A115-1	Spacer	X	2
10	NAS1149F0432P	Bolt	X	6
11	NAS6604-29	Bolt	X	1
12	F339-1	Jackshaft Weldment Assembly	X	1
13	NAS6604-33	Bolt	X	1
14	F121-7	Push-Pull Tube Assembly (Ref, see Figure 67-5)		
15	NAS6604-11	Bolt	X	1
16	NAS664-8	Bolt	X	1
17	A105-6	Journal	X	1
18	O6DU06	Bearing (install bearing using wet primer)	X	1
19	G201-1	Frame Assembly – Hydraulic Servo Support (Ref)		
20	B330-16	Palnut	X	2
21	AN316-5R	Nut	X	2
NOTES * Apply B270-21 protectant to threads.				

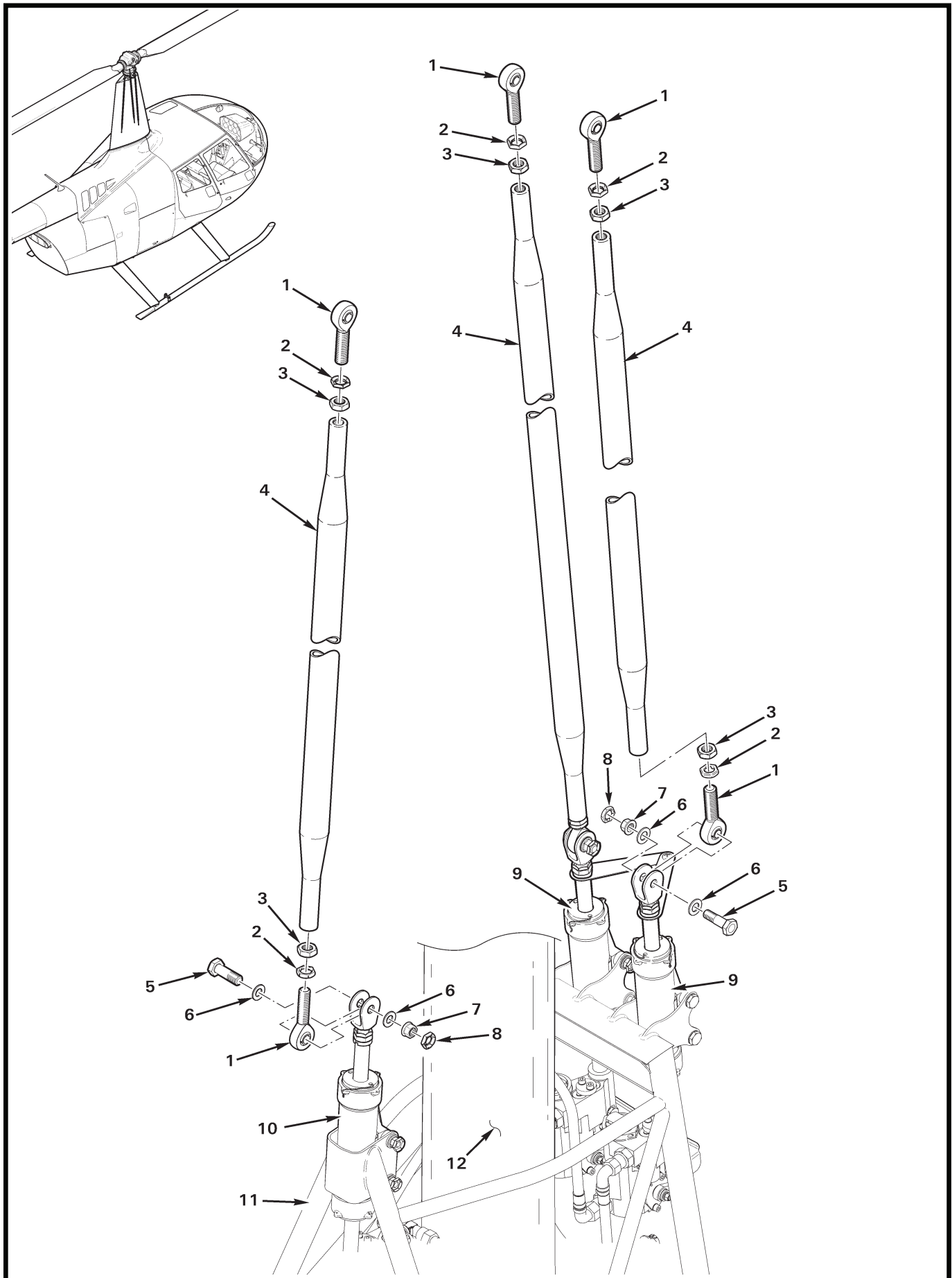


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PUSH-PULL TUBE ASSEMBLIES (UPPER)		
67-27-1	D173-2*	Rod End	X	2
2	B330-19	Palnut	X	2
3	AN316-6R	Nut	X	2
4	F121-3	Push-Pull Tube Assembly (Incl items 1 thru 3)	X	3
5	NAS6605-9	Bolt	X	3
6	NAS1149F0532P	Washer	X	6
7	D210-5	Nut	X	3
8	B330-16	Palnut	X	3
9	D212-5	Servo Assembly (Ref, forward)		
10	D212-6	Servo Assembly (Ref, aft)		
11	G201-1	Frame Assembly – Hydraulic Servo Support (Ref)		
12	F006	Main Rotor Gearbox Assembly (Ref)		
NOTES * Apply B270-21 protectant to threads.				

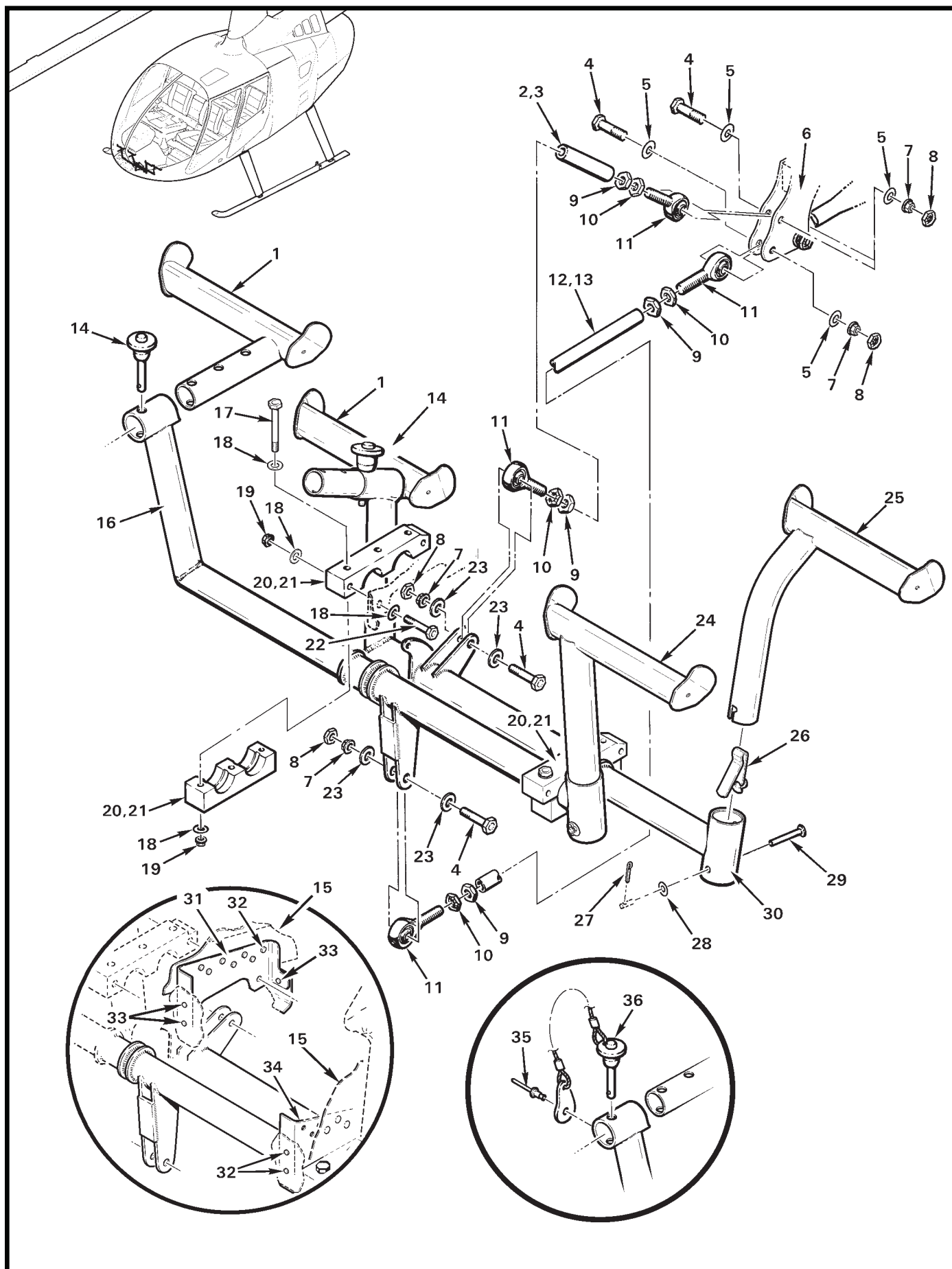


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – ADJUSTABLE PEDALS		
67-29-1	F755-1	Pedal – Pilot Side (left and right foot)	X	2
2	C343-13*	Tube Assembly (Incl items 3, and 9 thru 11)	X	1
3	C343-14	Tube (Ref)		
4	NAS6604-9	Bolt	X	4
5	NAS1149FN432P	Washer	X	4
6	C317-9	Bellcrank Assembly (Ref; see Figure 67-35)	X	1
7	D210-4	Nut	X	4
8	B330-13	Palnut	X	4
9	AN316-5R	Nut	X	2
10	B330-16	Palnut	X	2
11	A101-4	Rod End	X	2
12	C343-11**	Tube Assembly (Incl items 9 thru 11, and 13)	X	1
13	C343-12	Tube (Ref)		
14	B232-1	Pin (locking; button handle)	X	2
15	F033	Lower Console Assembly (Ref)		
16	D755-4	Pedal Assembly (right foot, includes items 14, and 27 thru 29)	X	1
17	NAS6603-20	Bolt	X	6
18	NAS1149F0332P	Washer	X	20
19	D210-3	Nut	X	14
20	A318-1-2	Bearing Block Set (install using item 21)	X	1
21	A257-1	Grease (for bearing block grooves)	X	A/R
22	NAS6603-13	Bolt	X	4
23	NAS1149F0463P	Washer	X	4
24	F755-3	Pedal Assembly – Co-Pilot (right foot, includes item 26)	X	1
25	F755-2	Pedal Assembly – Co-Pilot (left foot, includes item 26)	X	1
26	A795-4	Pin	X	2
27	MS24665-132	Cotter Pin	X	2
28	NAS1149D0316J	Washer (or AN960PD10L)	X	2
29	MS20392-2C33	Flathead Pin	X	2
30	D755-1	Pedal Assembly (left foot, includes items 14, and 27 thru 29)	X	1
31	A359-2	Support – RH	X	1
32	MS20470AD4	Rivet	X	20
33	MS20470AD3	Rivet	X	4
34	A359-1	Support – LH	X	1
35	NAS9301B-4-02	Rivet	X	2
36	B232-3	Pin (locking; button handle with lanyard and tab)	O	2
NOTES * 5.30 in. nominal center to center. Apply B270-21 protectant to threads. ** 5.82 in. nominal center to center. Apply B270-21 protectant to threads.				

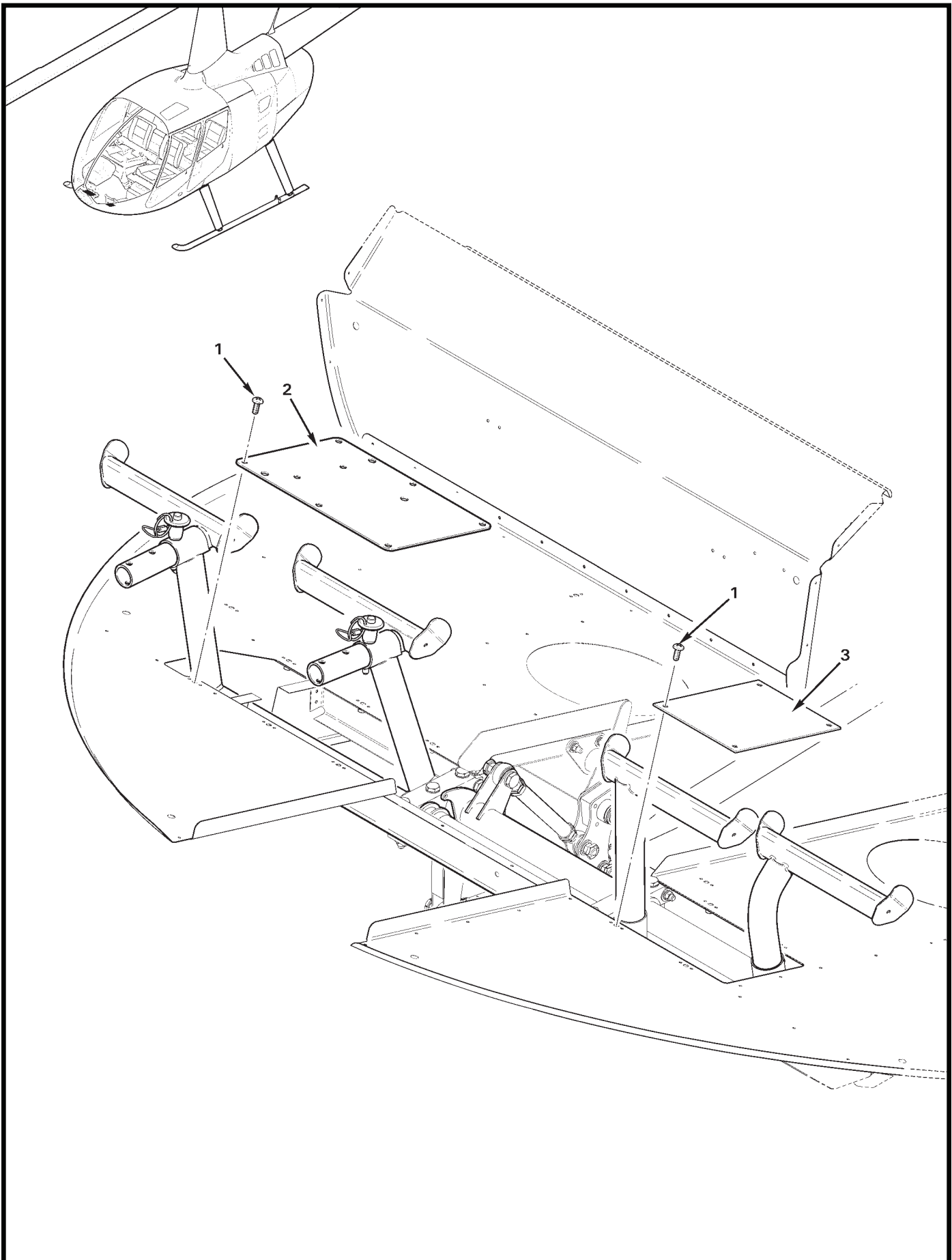


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
67-31-1		TAIL ROTOR CONTROLS – PEDAL COVER INSTALLATION		
	MS27039C0806	Screw	X	12
	2 A412-3	Cover (RH)	X	1
	3 A412-1	Cover (LH)	X	1
NOTES				

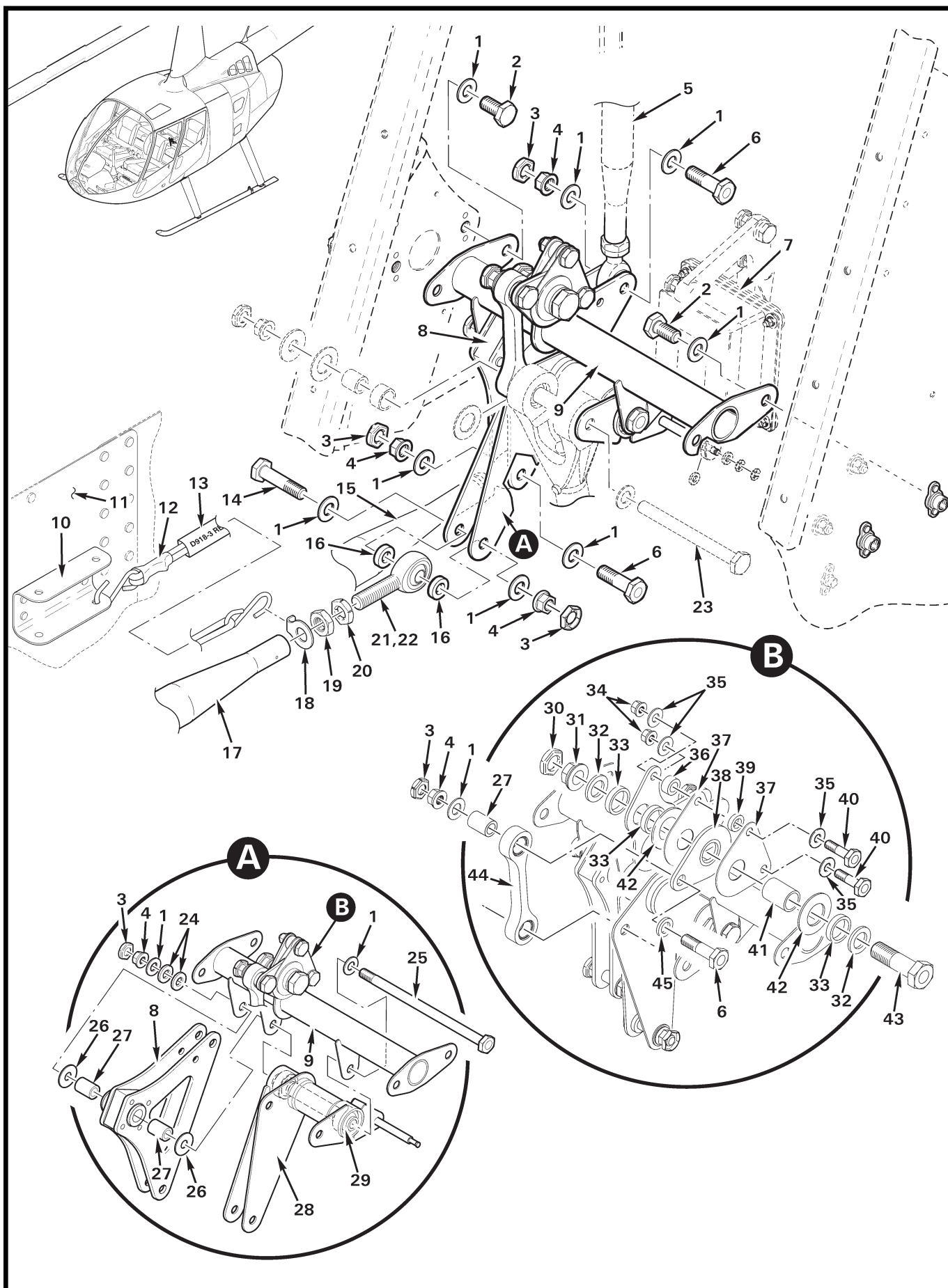


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		F334 SUPPORT ASSEMBLY INSTALLATION		
67-33-1	NAS1149F0432P	Washer	X	13
2	NAS6604-2	Bolt	X	4
3	B330-13	Palnut	X	4
4	D210-4	Nut	X	3
5	F121-11	Push Pull Tube Assembly (Ref)		
6	NAS6604-9	Bolt	X	3
7	F334-2	Actuator Assembly (Ref, see Figure 76-7)		
8	C317-7	Bellcrank	X	1
9	F334-1	Aft Support Assembly (Incl items 1, 3, 4, 6, 8, 14, 16, and 24 thru 45)	X	1
10	A697-3	Anchor (Ref)		
11	F293-2	Keel Panel (forward, Ref)		
12	D918-3	Elastic cord Assembly (6 lb $\pm$ 0.25)	X	1
13	B158-6	Heat Shrink (labeled "D918-3 Rev...")	X	A/R
14	NAS6604-11	Bolt	X	1
15	F121-9	Push-Pull Tube Assembly (Ref)		
16	A130-47	Spacer	X	2
17	F121-1	Push-Pull Tube Assembly (Incl items 18 thru 22)	X	1
18	A697-6	Tab	X	1
19	AN316-5R	Nut	X	2
20	B330-16	Palnut	X	2
21	A101-4	Rod End (install using item 22 on threads)	X	2
22	B270-21	Protectant	X	A/R
23	NAS6604-37	Bolt (Ref, see Figure 67-5)		
24	NAS1149F0463P	Washer	X	2
25	NAS6604-67	Bolt	X	1
26	A141-3	Washer	X	2
27	A105-3	Journal	X	3
28	F326-1	Bellcrank Weldment (Ref)		
29	B303-1	Bearing (Ref)		
30	B330-19	Palnut	X	1
31	D210-6	Nut	X	1
32	NAS1149F0663P	Washer	X	2
33	C130-25	Spacer	X	3
34	D210-3	Nut	X	2
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		F334 SUPPORT ASSEMBLY INSTALLATION (Cont'd)		
67-33-35	NAS1149F0332P	Washer	X	4
36	A130-21	Spacer	X	2
37	D336-1	Plate	X	2
38	B249-6	Arm Assembly	X	1
39	C130-24	Spacer	X	2
40	NAS6603-6	Bolt	X	2
41	B250-13	Journal	X	1
42	A478-4	Spring Washer (install with concave towards item 38)	X	2
43	NAS6606-11	Bolt	X	1
44	C327-1	Link Assembly	X	1
45	A141-11	Washer	X	1
NOTES				

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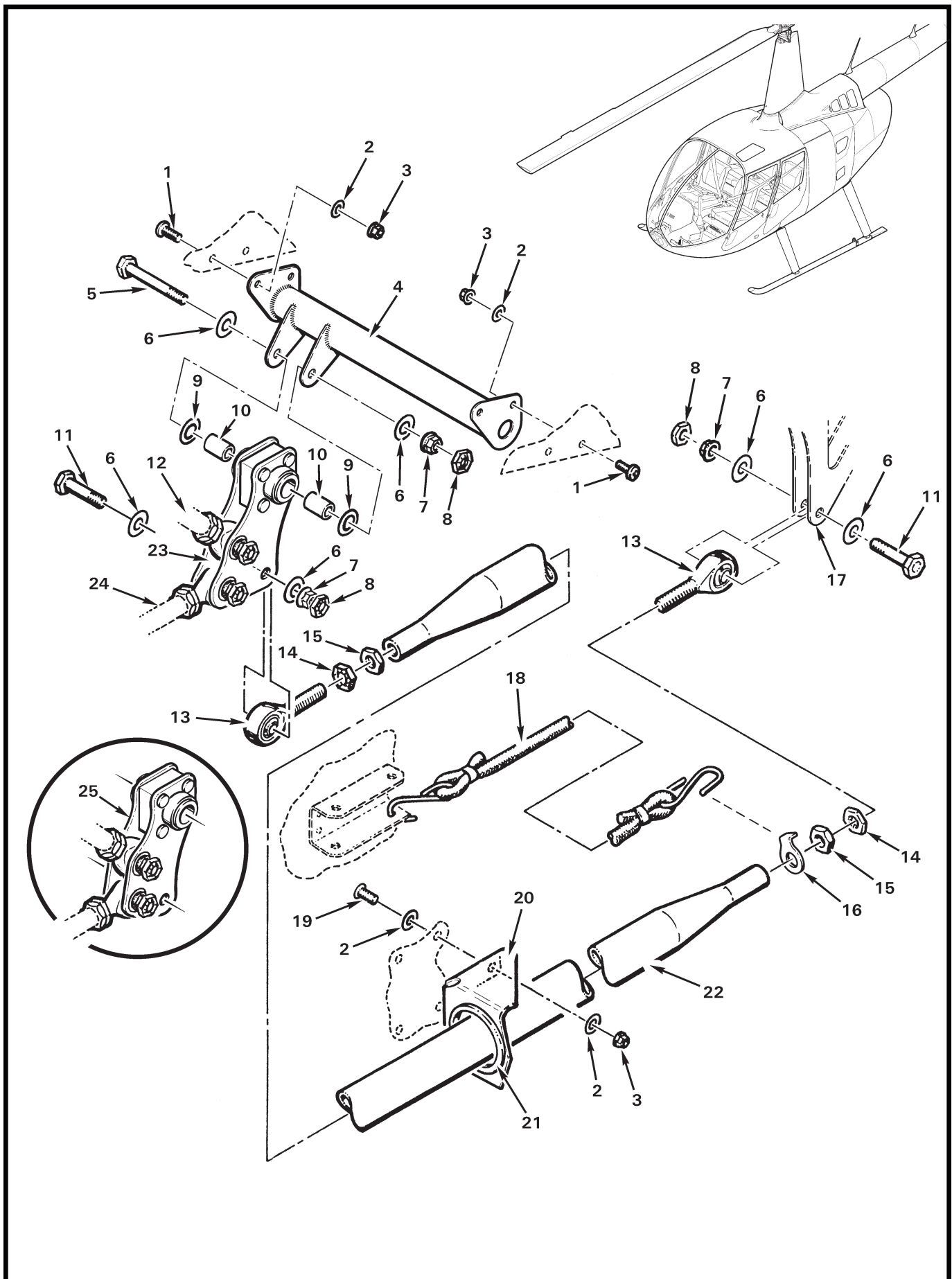


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		C317 BELLCRANK ASSEMBLY		
67-35-1	MS27039C0807	Screw	X	4
2	NAS1149FN832P	Washer	X	12
3	MS21042L08	Nut	X	8
4	F349-1	Support Assembly	X	1
5	NAS6604-19	Bolt	X	1
6	NAS1149F0432P	Washer	X	8
7	D210-4	Nut	X	4
8	B330-13	Palnut	X	4
9	A141-3	Washer	X	2
10	A105-3	Journal	X	2
11	NAS6604-9	Bolt	X	3
12	C343-13	Push-Pull Tube Assembly (Ref, see Figure 67-29)		
13	A101-4	Rod End	X	2
14	B330-16	Palnut	X	2
15	AN316-5R	Nut	X	2
16	A697-6	Tab	X	1
17	C317-7	Bellcrank Assembly (Ref, revision H and subsequent. See also Figure 67-33.)		
18	A918-1	Elastic Cord Assembly (6 lb)	X	1
	A918-2	Elastic Cord Assembly (8 lb)	X	1
	A918-3	Elastic Cord Assembly (10 lb)	X	1
	A918-4	Elastic Cord Assembly (12 lb)	X	1
	A918-5	Elastic Cord Assembly (14 lb)	X	1
	A918-6	Elastic Cord Assembly (16 lb)	X	1
	A918-7	Elastic Cord Assembly (18 lb)	X	1
	A918-8	Elastic Cord Assembly (20 lb)	X	1
19	MS27039C0806	Screw	X	4
20	C346-1	Restraint	X	1
21	NAS557-22A	Grommet	X	1
22	F121-9	Push-Pull Tube Assembly (Incl items 13 thru 16)	X	1
23	C317-9	Bellcrank Assembly (Must be used only with item 17, revision "H" and subsequent, and item 25 from Figure 67-37.)	X	1
24	C343-11	Push-Pull Tube Assembly (Ref, see Figure 67-29)		
25	C317-5	Bellcrank Assembly (For earlier R66's. Superseded by item 23.)	X	1
NOTES				

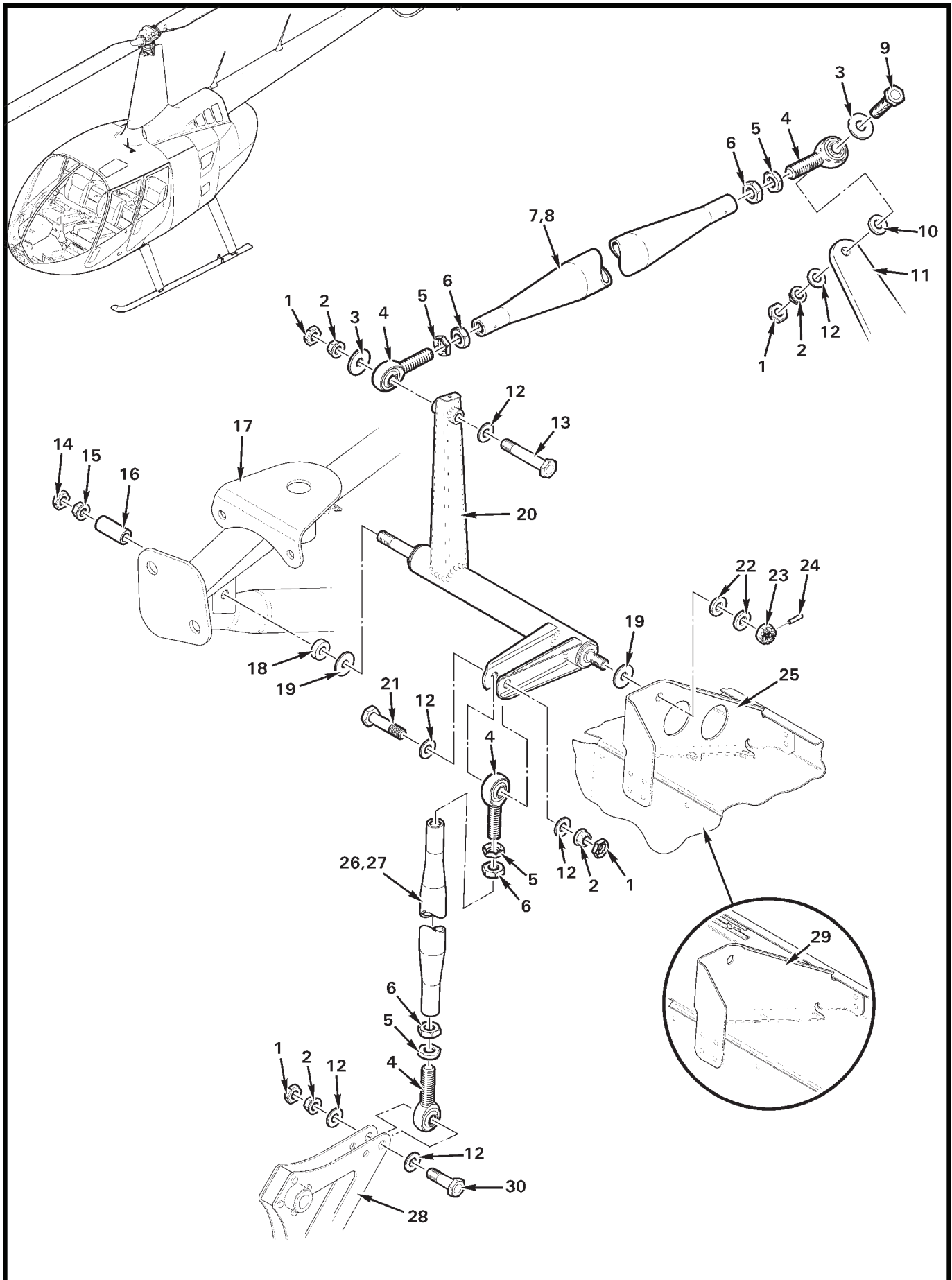


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		F316 BELLCRANK ASSEMBLY		
67-37-1	B330-13	Palnut	X	4
2	D210-4	Nut	X	4
3	A214-3	Washer	X	2
4	A101-4	Rod End	X	2
5	B330-16	Palnut	X	2
6	AN316-5R	Nut	X	2
7	F121-13	Push-Pull Tube Assembly (Incl items 3 thru 6)	X	1
8	F121-14	Tube (Ref)		
9	NAS6604-11	Bolt	X	1
10	MS20002-4	Washer	X	1
11	A331-4	Bellcrank Assembly (Ref, see Figure 67-39)		
12	NAS1149F0432P	Washer	X	6
13	NAS6604-21	Bolt	X	1
14	B330-13	Palnut	X	1
15	D210-4	Nut	X	1
16	C130-34	Spacer	X	1
17	F020	Frame Assembly (Ref)		
18	A130-42	Spacer	X	1
19	A141-3	Washer	X	2
20	F316-1	Bellcrank Assembly (Incl items 14 thru 16, 18, 19, and 22 thru 24)	X	1
21	NAS6604-8	Bolt	X	1
22	NAS1149F0463P	Washer	X	2
23	MS17825-4	Nut	X	1
24	MS16562-14	Spring Pin	X	1
25	G247-1	Support Assembly (revision "C" and subsequent)	O	1
26	F121-11	Push-Pull Tube Assembly (Incl items 4 thru 6, and 26)	X	1
27	F121-12	Tube (Ref)		
28	C317-7	Bellcrank Assembly (Ref, see Figure 67-33)		
29	G247-1	Support Assembly (Ref, revision "B" and prior, earlier R66s. Superseded by item 25.)		
30	NAS6604-9	Bolt	X	1
NOTES				

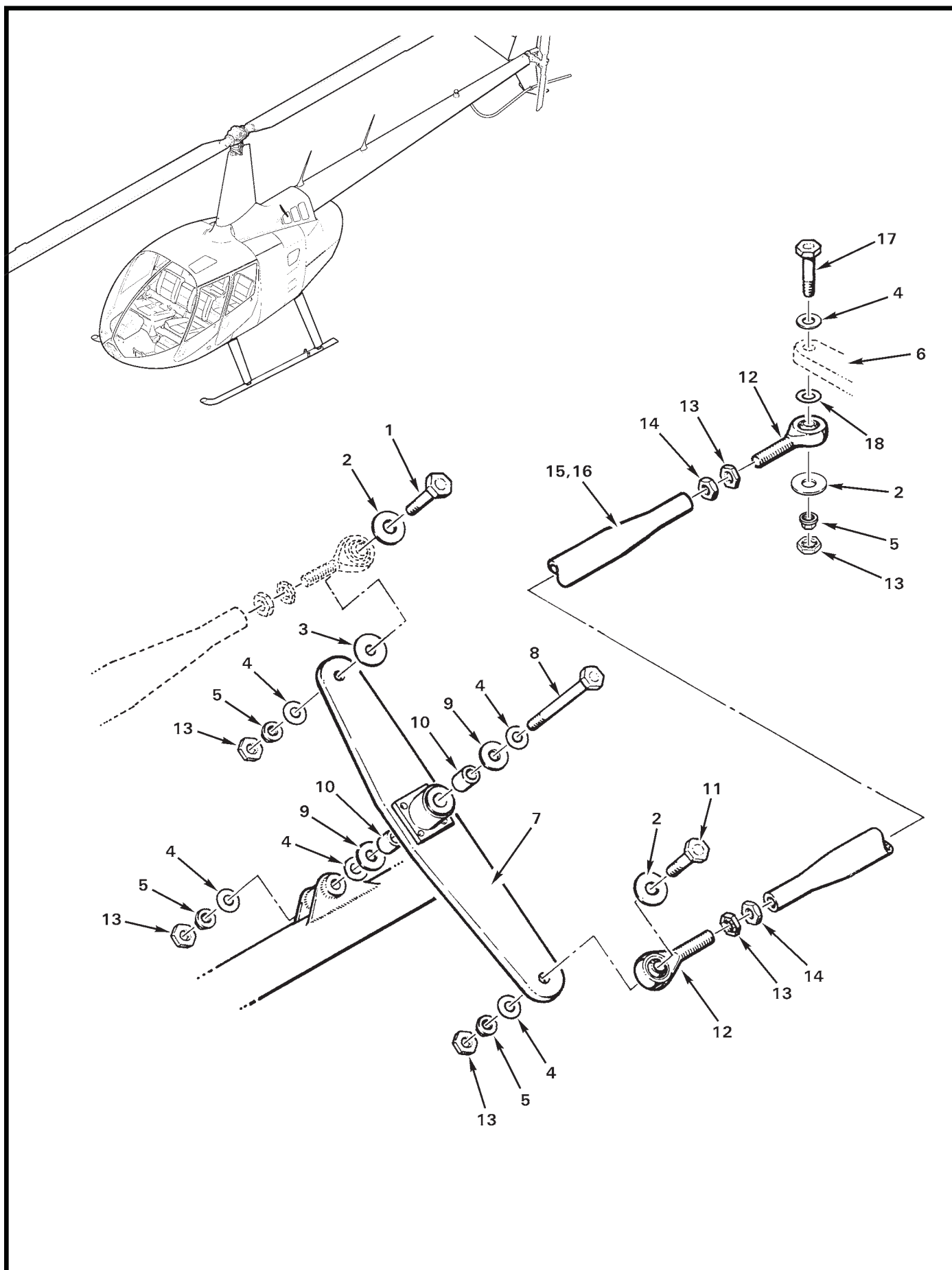


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		A331 BELLCRANK ASSEMBLY		
67-39-1	NAS6604-11	Bolt	X	1
2	A214-3	Washer	X	3
3	MS20002-4	Washer	X	1
4	NAS1149F0432P	Washer	X	6
5	D210-4	Nut	X	4
6	A120-5	Bellcrank (Ref)		
7	A331-4	Bellcrank Assembly	X	1
8	NAS6604-35	Bolt	X	1
9	A141-3	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	Palnut	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 NAS1149F0462P as required for minimum clearance)	X	A/R
NOTES				

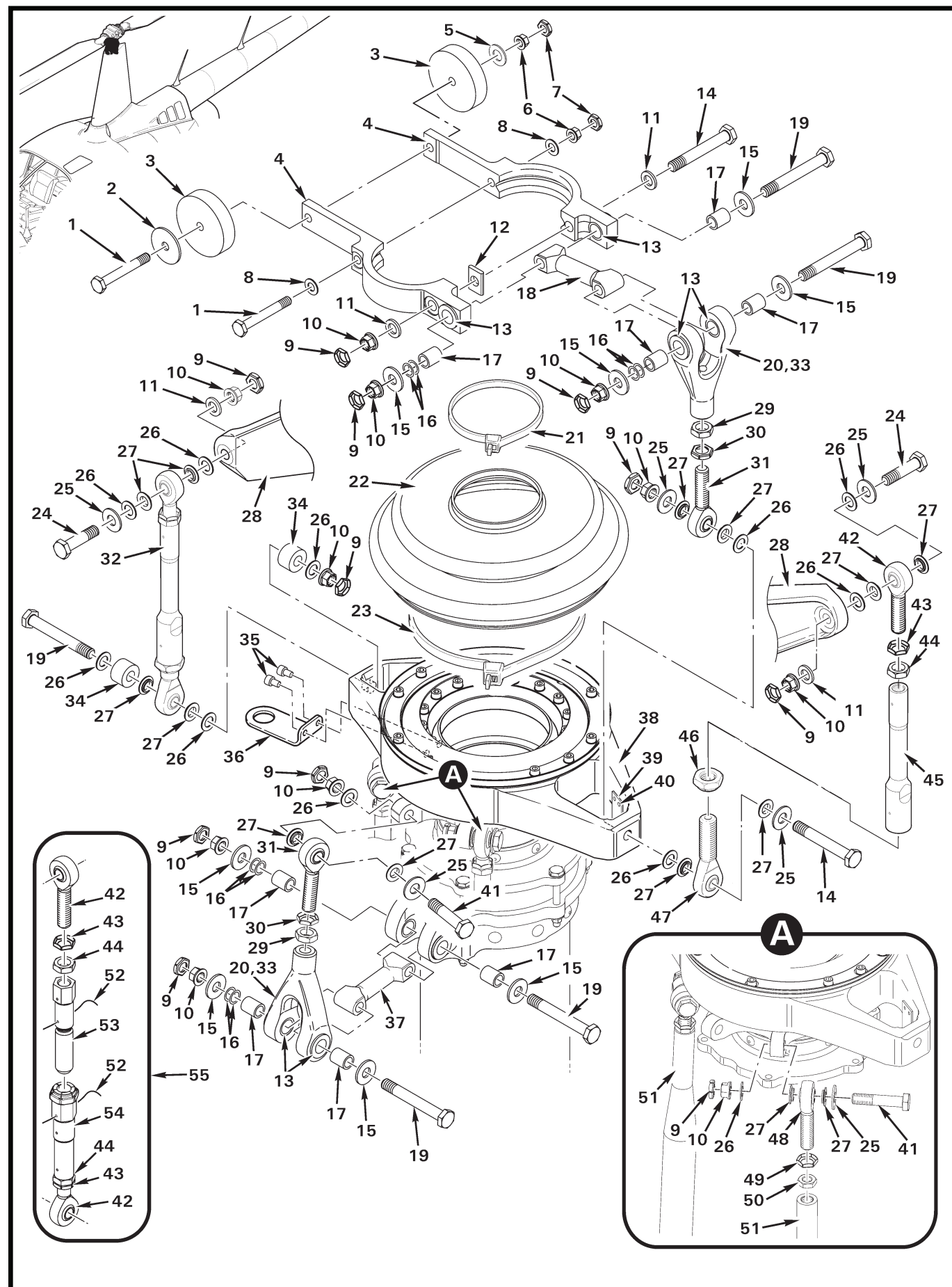


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE ASSEMBLY		
67-41-1	NAS6604-24*	Bolt	X	2
2	AN970-4**	Washer (A/R for balance)	X	A/R
3	A255-1**	Counter Weight (1.10 in. O.D.)	X	A/R
	A255-2**	Counter Weight (1.90 in. O.D.)	X	A/R
4	C203-5	Yoke Assembly (Incl item 13)	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	Palnut	X	2
8	NAS1149F0432P	Washer	X	2
9	B330-16	Palnut	X	11
10	D210-5	Nut	X	13
11	NAS1149F0563P	Washer	X	2
12	A210-1	Key	X	1
13	C648-2	Bearing – Journal (install wet; see R66 MM § 20-60 for approved primer)	X	8
14	NAS6605-28	Bolt	X	2
15	C141-19	Washer	X	8
16	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
17	C105-6	Journal (length = 0.526 in.)	X	8
18	C204-3	Arm (upper)	X	1
19	NAS6605-31	Bolt	X	5
20	A205-7	Fork Assembly (Incl item 13)	X	2
21	MS3367-7-9	Ty-Rap	X	1
22	C480-1	Boot	X	1
23	MS3367-6-0	Ty-Rap	X	1
24	NAS665-18	Bolt	X	2
25	C141-1	Washer	X	6
26	NAS1149-F0532P	Washer	X	9
27	C115-1	Spacer	X	14
28	C005-13	Blade and Spindle Assembly – Main Rotor (Ref)		
29	AN316-6R	Nut	X	2
30	B330-19	Palnut	X	2

NOTES * Select bolt length which, after correct torque is applied, exposes 2 to 4 threads beyond nut.

** Refer to R66 MM § 18-14 PART C.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE ASSEMBLY (Cont'd)		
67-41-31	D173-3	Rod End	X	2
32	C258-5	Pitch Link Assembly (Incl items 42 thru 47)	X	2
33	B270-13	Sealant (to fill cavity in item 20)	X	A/R
34	A255-3	Counter Weight	X	2
35	NAS1352N08-4	Screw	X	2
36	B769-2	Bracket	X	1
37	C204-2	Arm (lower)	X	1
38	C017-6	Swashplate Assembly (Incl items 35, 36, 39, and 40)	X	1
39	C769-2	Interrupter	X	1
40	MS20470AD3	Rivet	X	2
41	NAS6605-17	Bolt	X	4
42	D173-3*	Rod End	X	1
43	B330-19	Palnut	X	1
44	AN316-6R	Nut	X	1
45	C258-6*	Barrel Assembly	X	2
46	21FKF-813	Nut	X	1
47	D173-4*	Rod End	X	1
48	D173-2	Rod End (Ref)		
49	B330-19	Palnut (Ref)		
50	AN316-6R	Nut (Ref)		
51	F121-3	Push-Pull Tube Assembly (Ref, includes items 48 thru 50. See also Figure 67-27.)		
52	MS20995C32	0.032 in. dia Safety Wire	X	A/R
53	C258-2	Fitting	O	1
54	C258-4*	Link Assembly (Incl items 42 thru 44)	O	1
55	C258-1**	Pitch Link Assembly (Incl items 42 thru 44, 53, and 54)	O	2

56	KI-6604	R44-series & R66 C017-5 Swashplate Installation Kit Instructions (See www.robinsonheli.com for complete kit contents. Also, see Figure 67-41.)	X	1
NOTES * Apply A257-2 or A257-22 oil on threads. ** Earlier R66s, no longer available.				

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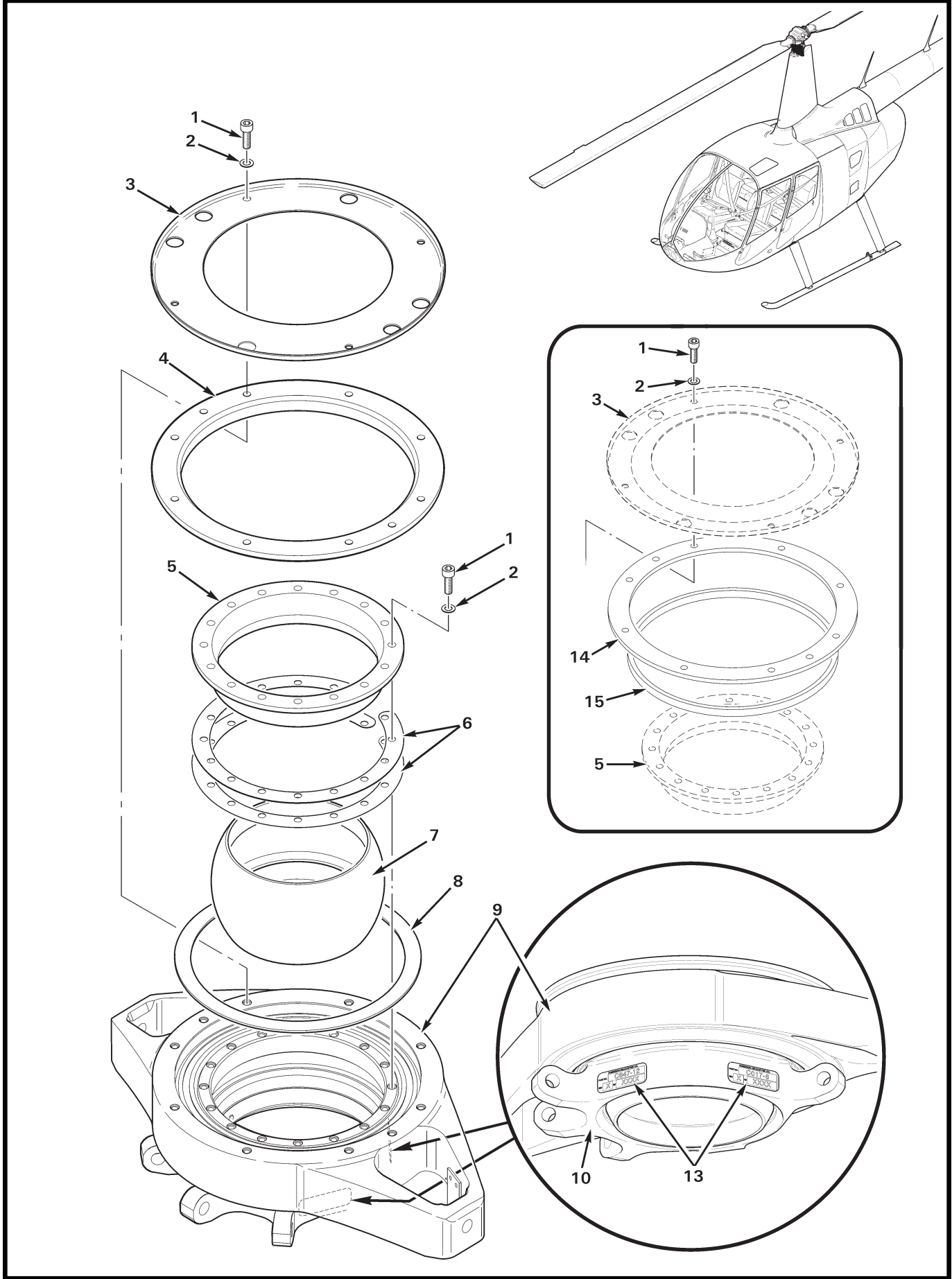


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE BALL INSTALLATION (C017 REVISION AD & SUBSEQUENT)		
67-45-1	NAS1352N08-8	Screw (install using item 11 on threads)	X	26
2	NAS620-8L	Washer	X	26
3	C206-2	Retainer	X	1
4	C200-4	Retainer (supersedes items 14 and 15)	X	1
5	C205-1	Sleeve Assembly	X	1
6	C197-1	Spacer (thickness = 0.016 in.)	X	A/R
	C197-2	Spacer (thickness = 0.020 in.)	X	A/R
	C197-3	Spacer (thickness = 0.025 in.)	X	A/R
	C197-4	Spacer (thickness = 0.032 in.)	X	A/R
	C197-5	Spacer (thickness = 0.040 in.)	X	A/R
	C197-6	Spacer (thickness = 0.050 in.)	X	A/R
7	C201-1	Ball Assembly	X	1
8	C217-1	Seal (upper)	X	1
9	C199-2	Swashplate Assembly – Upper (Ref)		
10	F198-1	Swashplate Assembly – Lower (Ref)		
11	A257-9	Anti-Seize	X	A/R
12	C647-12	Bearing Set – Swashplate (Ref; connects items 9 and 10; not shown)		
	A257-3	Grease (pack bearing set with grease per MM § 12-90)	X	A/R
13	—	Identification Plate* (C017-6 Assembly, and C647-12 bearing set; part number, revision letter and serial number) . .	O	2
14	C200-3**	Retainer	X	1
15	C219-3**	Spacer	X	1
NOTES * Refer to MM § 20-93 for replacement procedures. ** Superseded by item 4.				

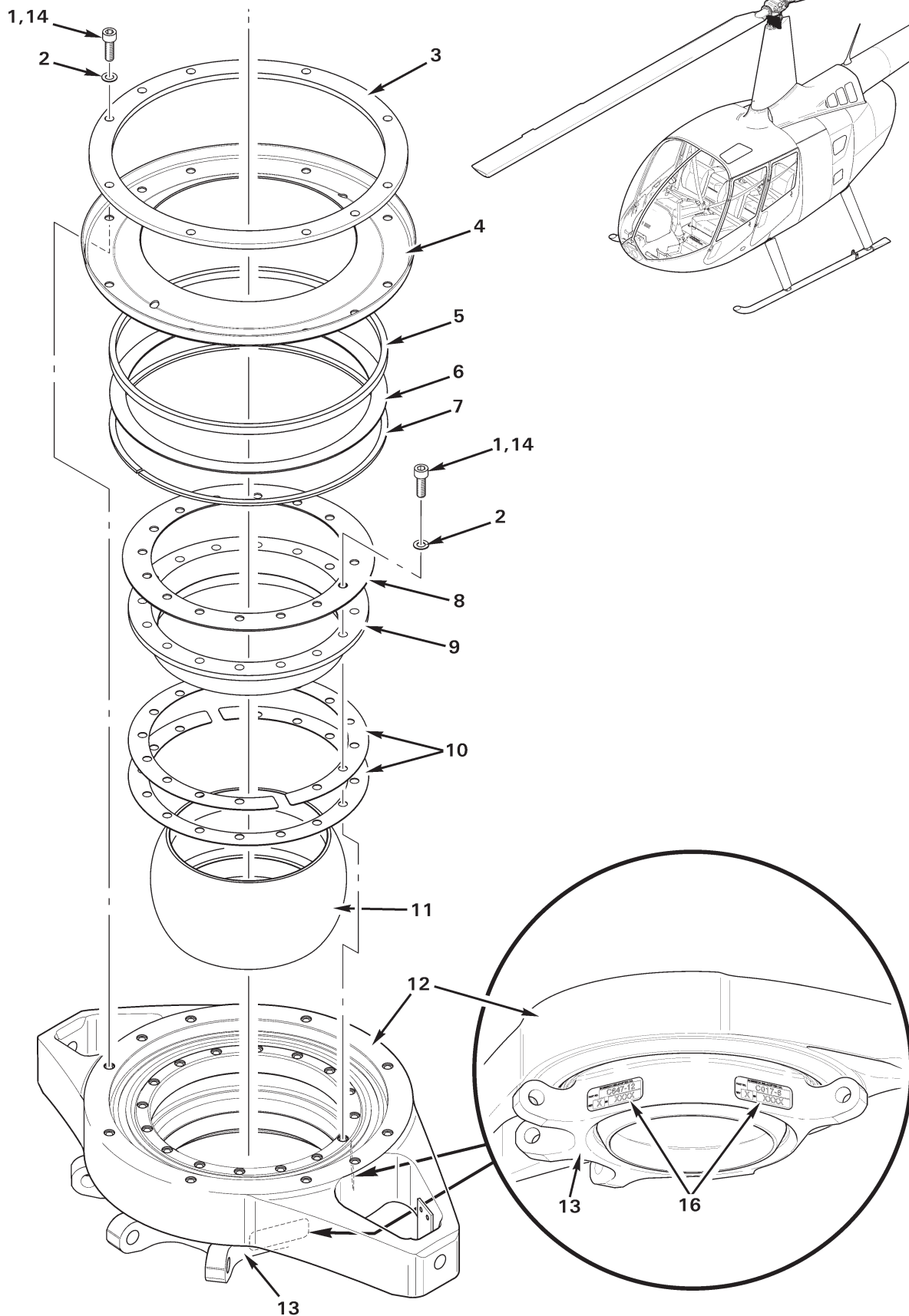


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE BALL INSTALLATION (C017 REVISION AA THRU AC)		
67-47-1	NAS1352N08-8	Screw (install using item 14 on threads)	X	26
2	NAS620-8L	Washer	X	26
3	C200-1 *	Retainer (Ref, no longer available)		
4	C206-1 *	Retainer (Ref, no longer available)		
5	C219-2 *	Spacer (Ref, no longer available)		
6	C218-2 *	Shield (Ref, no longer available)		
7	C219-1 *	Spacer (Ref, no longer available)		
8	C218-1 *	Shield (Ref, no longer available)		
9	C205-1	Sleeve Assembly	X	1
10	C197-1	Spacer (thickness = 0.016 in.)	X	A/R
	C197-2	Spacer (thickness = 0.020 in.)	X	A/R
	C197-3	Spacer (thickness = 0.025 in.)	X	A/R
	C197-4	Spacer (thickness = 0.032 in.)	X	A/R
	C197-5	Spacer (thickness = 0.040 in.)	X	A/R
	C197-6	Spacer (thickness = 0.050 in.)	X	A/R
11	C201-1	Ball Assembly	X	1
12	C199-2	Swashplate Assembly – Upper (Ref)		
13	F198-1	Swashplate Assembly – Lower (Ref)		
14	A257-9	Anti-Seize	X	A/R
15	C647-12	Bearing Set – Swashplate (Ref; connects items 12 and 13; not shown)		
16	—	Identification Plate** (C017-6 Assembly, and C647-12 bearing set; part number, revision letter and serial number) . .	O	2
NOTES * To replace parts, upgrade swashplate assembly per R66 Service Bulletin SB-30. ** Refer to MM § 20-93 for replacement procedures.				

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