

CHAPTER 67

FLIGHT CONTROLS

<i>Figure</i>	<i>Title</i>	<i>Page</i>
67-1	Cyclic Control System - Electric Trim	67.0
67-7	Cyclic Stick Assembly - Electric Trim	67.6
67-9	Forward Cyclic Installation	67.8
67-11	Cyclic Grip Assembly	67.10
67-15B	Cyclic Grip Assembly	67.15A
67-17	Cyclic Friction Assembly	67.16
67-21	Collective Stick Assembly	67.20
67-25	Collective Spring Assembly - Electric Trim	67.24
67-27	Main Rotor Controls	67.26
67-31	Main Rotor Controls	67.30
67-35	Main Rotor Controls	67.34
67-39	Torque Tube Installation	67.38
67-41	Aft Support Assembly	67.40
67-45	Aft Support Assembly	67.44
67-49	Push-Pull Tube Assemblies	67.48
67-51	Push-Pull Tube Guide Installation	67.50
67-53	Jackshaft Installation	67.52
67-57	Jackshaft Support Weldment Installation	67.56
67-59	Jackshaft Installation	67.58
67-61	Swashplate Installation	67.60
67-65	Swashplate Installation	67.64
67-69	Swashplate Installation	67.68

CHAPTER 67

FLIGHT CONTROLS (Cont'd)

<i>Figure</i>	<i>Title</i>	<i>Page</i>
67-73	Swashplate Ball Installation	67.72
67-75	Swashplate Ball Installation	67.74
67-77	Tail Rotor Controls - Pedals Installation	67.76
67-81	Tail Rotor Controls - Pedals Installation	67.80
67-85	Tail Rotor Controls - C317 Bellcrank	67.84
67-89	Tail Rotor Controls - C316 Bellcrank	67.88
67-91	Tail Rotor Controls - C331 Bellcrank	67.90

Intentionally Blank

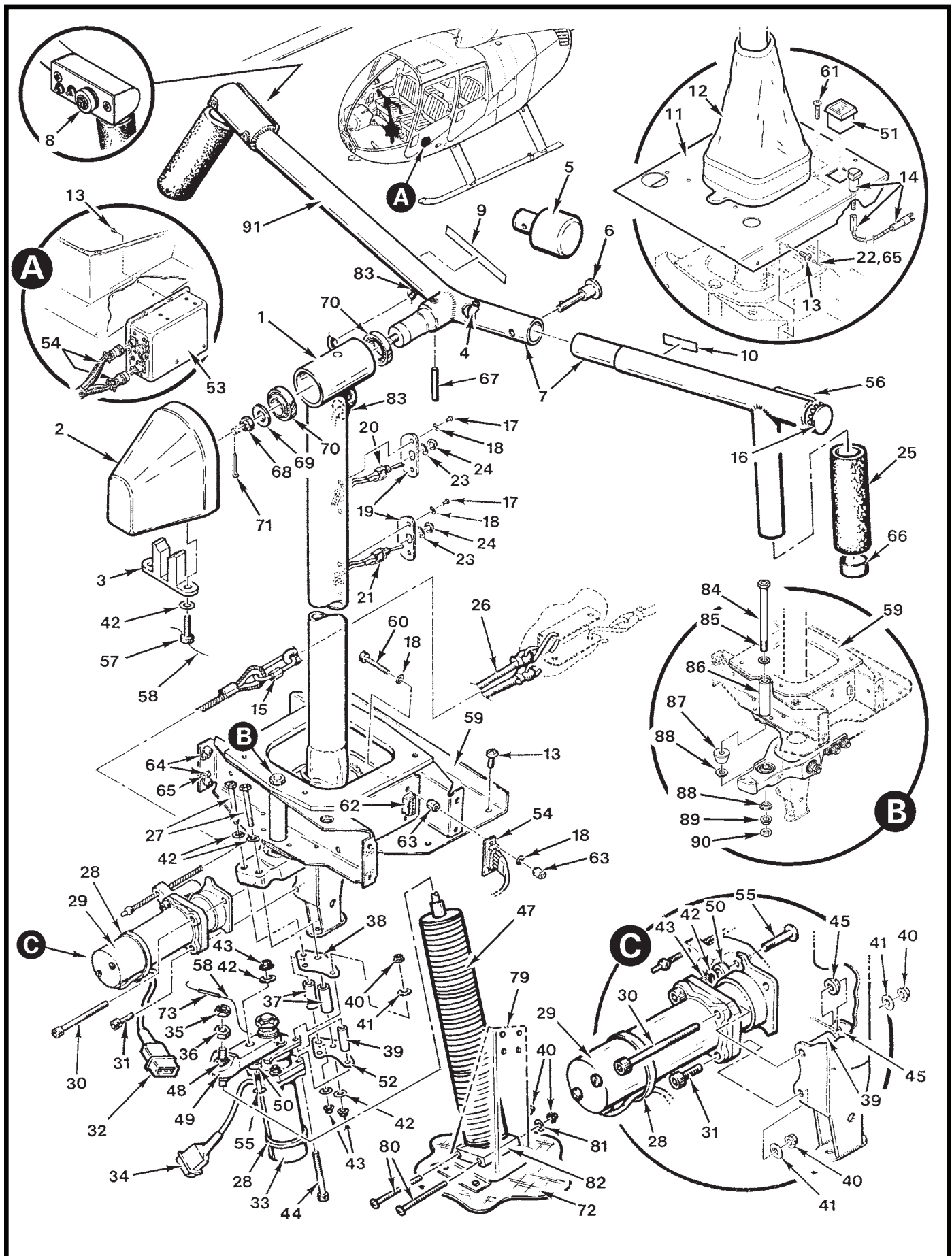


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
CYCLIC CONTROL SYSTEM - ELECTRIC TRIM*				
67-1-1	C069-3*	Cyclic Control Assembly (Ref; includes items 7, 11, 12, 14, 17, 18 [2], 19 thru 21, 27, 28 [4], 29 [C055-10], 33 [C055-9], 37 [2], 46, 59 thru 63, 68 thru 71, 78, and 84 thru 90) . . .	X	1
2	C683-4**	Damper (Ref)		
3	C683-5	Clamp	X	1
4	A776-1	Mount - Intercom Plug (Ref, see Figure 97-15)	X	1
5	C683-6	Damper (install when co-pilot grip assembly is removed)	X	1
6	B232-1	Handle Pin	X	1
7	C058-1*	Grip Assembly - Pilot/Co-Pilot (Incl items 4, 6, 9, 10, 16, 25, 66, 67, and 83; see also Figure 97-15)	X	1
8	T4-0032**	Switch - Trim (see Figure 97-15, Ref)		
9	A654-83	Decal - "Low-G Pushovers Prohibited"	X	1
10	A654-43	Decal - "Solo From Right Seat Only"	X	1
11	C444-1	Cover Assembly (standard carb heat R44s)	X	1
	C444-3	Cover Assembly (R44s with carb heat assist; not shown)	X	1
	C444-5	Cover Assembly (R44s with carb heat assist and HSI installed; not shown)	X	1
12	A677-4	Boot	X	1
13	MS27039C0806	Screw	X	18
14	B195-6	Post Light	X	1
	B196-1	Lamp (14-volt)	X	1
	B196-21	Lamp (28-volt)	X	1
15	3711T21	Connector	X	1
16	SS51334	Plug	X	1
17	MS35206-212	Screw (use B270-10 adhesive on threads)	X	4
18	MS35333-36	Washer	X	8
19	B306-5	Mount - Trim (Upper; use only with TT13D2T switch. Replaces B306-2 mount.)	X	1
	B306-4	Mount - Landing Light (Lower; use only with TT13D2T switch. Replaces B306-1 mount.)	X	1
20	C049-12	Switch Assembly - Trim (Includes TT13D2T04 switch, wires, heat shrink, item 19 [B306-5], 23, and 24.)	X	1
	TT13D2T04	Switch (Use only with B306-4 [or -5] mount; include lockwasher)	X	1
	TT13D-7T-1/4**	Switch - Trim (Ref; no longer available. To replace, order C049-12 Switch Assembly.)		
NOTES * Ship S/N 0001 thru 0467. For ship S/N 0468 and subsequent, see Figure 67-11. ** No longer available.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC CONTROL SYSTEM - ELECTRIC TRIM (Cont'd)		
67-1-21	C049-9	Switch Assembly - Landing Light (Includes TT13D2T04 switch, wires, heat shrink, item 19 [B306-4], 23, and 24.)	X	1
	TT13D2T04	Switch (Use only with B306-4 [or -5] mount; incl lockwasher) . .	X	1
	TT13D-9T-1/4	Switch - Landing Light (Ref; no longer available. To replace, order B049-9 switch assembly.)		
22	MS21069L08	Nutplate (install using item 65)	X	4
23	—	Lockwasher	O	1
24	465701264	Dress Nut	X	1
25	A601-2	Grip (install using item 78)	X	2
26	C918-1	Elastic Cord Assembly - Aft (25 lb)	X	1
	C918-2	Elastic Cord Assembly - Aft (30 lb)	X	1
	C918-3	Elastic Cord Assembly - Aft (35 lb)	X	1
	C918-4	Elastic Cord Assembly - Aft (40 lb)	X	1
	C918-6	Elastic Cord Assembly - Aft (50 lb)	X	1
	C918-7	Elastic Cord Assembly - Aft (55 lb)	X	1
27	NAS6603-26	Bolt	X	2
28	MS3367-5-9	Ty-Rap	X	2
29	C055-6*	Cyclic Trim Assembly - Longitudinal (Ref)		
	C055-10**	Cyclic Trim Assembly - Longitudinal (Incl items 28, 30, 31, 32, 39 [1], 40, 41, 42 [1], 43 [1], 45, 50, and 55)	X	1
	C055-10R	C055-10 Cyclic Trim Assembly - Longitudinal (overhaul exchange)	X	1
30	NAS1352-08-32P	Screw	X	1
31	NAS1352-08-12P	Screw	X	1
32	B263-34	Housing	X	1
	B263-1	Pin	X	3
33	C055-2*	Cyclic Trim Assembly - Lateral (Ref)		
	C055-9**	Cyclic Trim Assembly - Lateral (Incl items 28, 34, 38, 39 [2], 40, 41, 44, 47, 52, 72, and 73)	O	1
	C055-9R	C055-9 Cyclic Trim Assembly - Lateral (overhaul exchange) . .	X	1
	C055-8*	Gearmotor Assembly - Lateral (Ref)		
	C055-11**	Gearmotor Assembly - Lateral (Incl items 28, 34, 38, 39 [2], 40, 41 [1], 42 [1], 43, 44, 48 thru 50, and 52)	X	1
	C005-11R	C055-11 Gearmotor Assembly - Lateral (overhaul exchange) . .	X	1

NOTES * Ship S/N 0001 thru 0190. Parts no longer available.

** Ship S/N 0191 and subsequent. Use only with D140-2 trim controller assembly.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC CONTROL SYSTEM – ELECTRIC TRIM (Cont'd)		
67-1-34	B263-14	Housing	X	1
	B263-1	Pin	X	3
35	B330-13	Palnut	X	1
36	AN316-4R	Nut	X	1
37	C130-18	Spacer (Ref, no longer available)		
38	C582-3	Plate	X	1
39	C130-11	Spacer (Ref, no longer available)		
40	MS21042L08	Nut	X	4
41	NAS620-8L	Washer	X	4
42	NAS1149F0332P	Washer	X	8
43	MS21042L3	Nut	X	4
44	NAS1352-08-28P	Screw	X	2
45	C130-20	Spacer (Ref, no longer available)		
46	C048-1	Cyclic Friction Assembly (not shown; see Figure 67-17)		
47	C056-1	Spring Assembly – Lateral Cyclic Trim (Incl items 35, 36, 42 [2], 43, 48 thru 50, 55, and 82)	X	1
	C056-1R	Spring Assembly – Lateral Cyclic Trim (overhaul exchange)	X	1
48	B303-2	Bearing	O	1
49	C581-1	Arm	O	1
50	C130-13	Spacer (Ref, no longer available)		
51	FP-161	Plug	X	1
52	C582-1	Plate (Ref, no longer available)		
53	D140-1 *	Trim Controller Assembly	O	1
	D140-2 **	Trim Controller Assembly	O	1
54	D161-1	Harness Assembly (Includes plugs [shown], connectors, pin, sockets, lacing, etc. as an assembled unit. Ref, no longer available.)		
55	MS27039C1-15	Screw	X	1
56	—	Intercom and Transmit Switches (Ref, see Figure 97-15)	X	1
57	NAS1352-3H14	Screw	X	2
58	MS20995C32	0.032 in. dia. Safety Wire	X	A/R
59	C338-4	Cyclic Box (Ref, includes item 22)		

NOTES * Ship S/N 0001 thru 0190. Parts no longer available.
 ** Ship S/N 0191 thru 0679 without optional hydraulics. Parts no longer available.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC CONTROL SYSTEM – ELECTRIC TRIM (Cont'd)		
67-1-60	NAS1352C04-10	Screw (Ref, no longer available)		
61	MS27039C0808	Screw (around boot)	X	4
62	B269-1	Connector (Ref)		
63	2052-440-SS-0	Stand Off (Ref, no longer available)	O	2
64	MS21086L08	Nutplate	X	8
65	MS20426AD3	Rivet	X	24
66	A959-6	End Cap	X	2
67	B350-1	Roll Pin	X	1
68	MS17825-4	Nut	X	1
69	A141-14	Washer	X	1
70	A647-2	Bearing	X	2
71	MS24665-69	Cotter Pin	X	1
72	C272-1	Chin (Ref)		
73	MS16562-36	Roll Pin	X	1

74	KI-99	Cyclic Trim System Upgrade Kit (Ship S/N 0001 thru 0190, no longer available.)		
75	C055-10R	C055-10 Cyclic Trim Assembly – Longitudinal (overhaul exchange)	X	1
76	C055-11R	C055-11 Gearmotor Assembly – Lateral (overhaul exchange) . .	X	1
77	D140-2R	D140-2 Trim Controller Assembly (overhaul exchange)	O	1

78	B270-15	Adhesive (not shown)	X	A/R
79	C591-1	Brace (Ref)		
80	MS35206-253	Screw	X	2
81	NAS1149FN816P	Washer	X	2
82	C591-2	Block (Ref)		
83	MS35489-4	Grommet	X	1
84	NAS6605-56	Bolt	X	1
85	NAS1149F0532P	Washer	X	1
86	A130-6	Spacer	X	1
87	A339-1	Spacer	X	1
NOTES				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC CONTROL SYSTEM – ELECTRIC TRIM (Cont'd)		
67-1-88	A340-1	Spacer	X	2
89	D210-5	Nut	X	1
90	B330-16	Palnut	X	1
91	A756-6	Grip Assembly – Cyclic (RH, pilot. Ref; Ship S/N 0001 thru 0467.)		
NOTES				

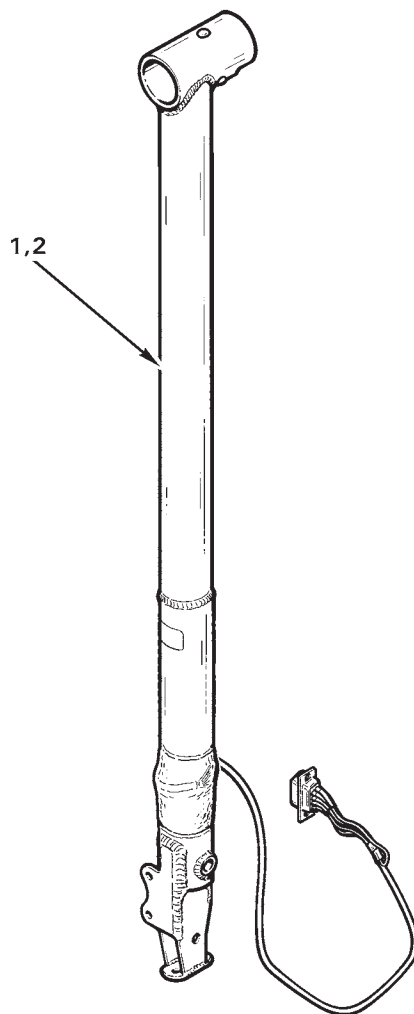


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
67-7-1	C318-1	CYCLIC STICK ASSEMBLY – ELECTRIC TRIM* Cyclic Stick Assembly with Strain Gages (Ref; ship S/N 0001 thru 0652 with manual controls. No longer available.) Stick Assembly (Ref, welded stick assembly only.)	O	1
2	C320-1			
NOTES * Manual controls.				

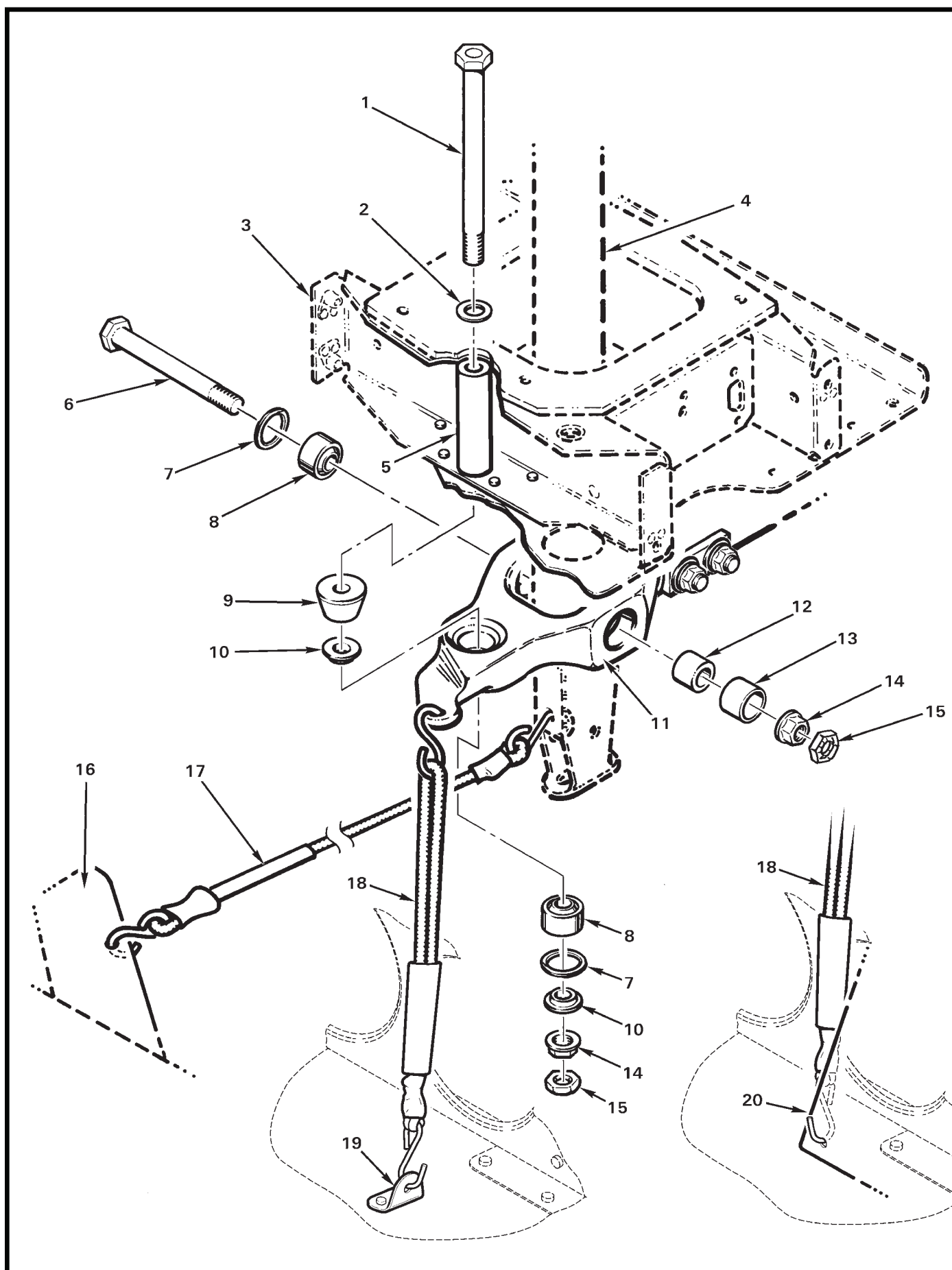


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FORWARD CYCLIC INSTALLATION*		
67-9-1	NAS6605-56	Bolt	X	1
2	NAS1149F0532P	Washer	X	1
3	C338-4	Cyclic Box (Ref)		
4	C069	Cyclic Control Assembly (Ref)		
5	A130-6	Spacer	X	1
6	NAS1305-35	Bolt	X	1
7	WH-68-S02	Ring	X	2
8	A103-5	Bearing (install using B270-11 adhesive)	X	2
9	A339-1	Spacer	X	1
10	A340-1	Spacer	X	2
11	C177-3	Pivot (Ref; see Figure 67-31 and Figure 67-27)		
12	C105-3	Journal	X	1
13	08DU06	Bearing	X	1
14	D210-5	Nut	X	2
15	B330-16	Palnut	X	2
16	A697-4	Bracket	X	1
17	D918-1	Elastic Cord (longitudinal)	X	1
18	D918-2	Elastic Cord (lateral)	X	1
19	A748-3	Angle (Ref)		
20	C591-4	Brace (Ref, earlier R44s. Superseded by item 19.)		
NOTES * Hydraulic controls.				

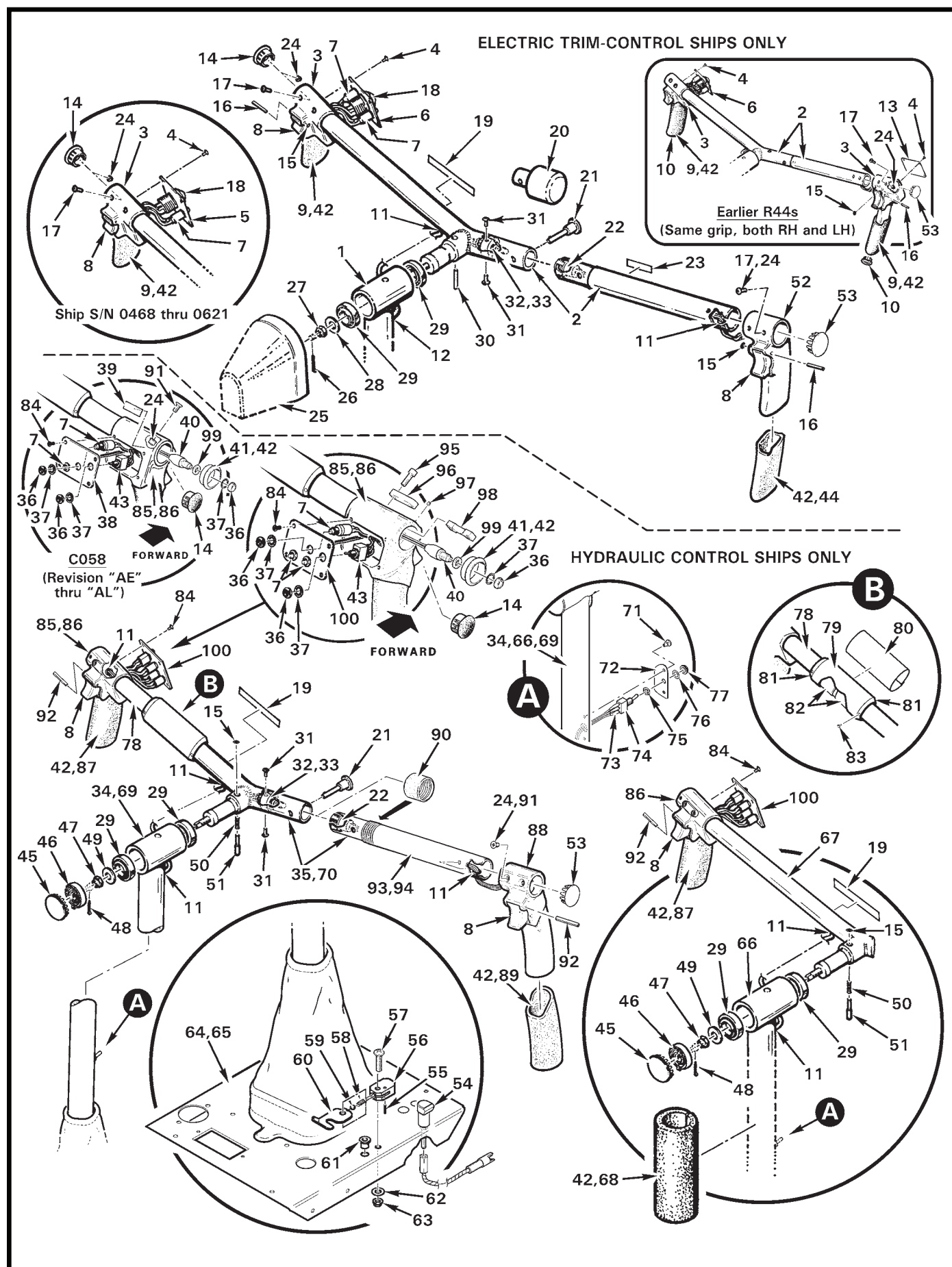


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
CYCLIC GRIP ASSEMBLY				
67-11-1	C069-3*	Cyclic Control Assembly (Includes items 11, 12, 14, 17, 18 [2], 19 thru 21, 27, 28 [4], 29 [C055-10], 33 [C055-9], 37 [2], 46, and 59 thru 63 from Figure 67-1. Includes items 2, and 26 thru 29 from Figure 67-11.)	X	1
2	C058-1*	Grip Assembly - Pilot/Co-Pilot (Ref)	X	1
3	D373-1**	Grip (Ref)	X	A/R
4	MS24693-S2	Screw	X	A/R
5	C214-2	Plate ("Freq, Trim". Use with [1] of item 7. Ship S/N 0468 thru 0621.)	X	1
6	C214-7	Plate ("Freq, Trim, Ch Sel". Use with [2] of item 7. Ship S/N 0622 thru 0662.)	X	1
7	B227-2	Switch Assembly ("flip-flop"; includes items 36 and 37)	X	A/R
8	U2-279	Trigger Switch	X	2
9	D373-3	Cover (install using item 42)	X	2
10	2663	Hole Plug (DP-625)	X	2
11	MS35489-4	Grommet	X	A/R
12	MS35489-6	Grommet	X	1
13	C214-1	Plate (plain)	X	1
14	2703	Hole Plug (DP-875)	X	A/R
15	MS16633-2012	Retaining Ring (or MS16633-1012)	X	A/R
16	D443-1**	Pin (Ref)		
17	MS27039C0806	Screw	X	A/R
18	T4-0032**	Switch - Trim (Ref)		
19	A654-83	Decal - "Low-G Pushovers Prohibited" (for earlier R44s)	X	1
20	C683-6	Counterweight (install when co-pilot grip assembly is removed)	X	1
21	B232-1	Handle Pin	X	1
	B815-1	Handle Pin - Oversize (0.197/0.195 in. dia. hole)	X	1
	B815-2	Handle Pin - Oversize (0.219/0.217 in. dia. hole)	X	1
22	TJT-120	Jack (Ref, see Figure 97-15)		
23	A654-43	Decal - "Solo From Right Seat Only" (for earlier R44s)	X	1
24	MS21042L08	Nut	X	A/R
25	C683-4	Damper (Ref, see Figure 67-1)		
26	MS24665-69	Cotter Pin	X	1
NOTES * Ship S/N 0468 thru 0662 with electric trim. ** No longer available.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY (Cont'd)		
67-11-27	MS17825-4	Nut	X	1
28	A141-14	Washer	X	1
29	A647-2	Bearing	X	2
30	B350-1	Roll Pin	X	1
31	MS35206-241	Screw	X	2
32	A776-1	Mount (Ref, see Figure 97-15)	X	1
33	A781-1	Intercom Plug (Ref, see Figure 97-15)	X	1
34	C069-5 *	Cyclic Control System (Hydraulic R44s, O-540 engine. Includes items 12, 17, 18, 21, 59, and 61 from Figure 67-1; items 29, 35, 45 thru 49, 54 thru 64, and 71 and 74 from Figure 67-11; items 1, 3 thru 5, 7, 15, 16, 25, 26, 32, and 34 from Figure 67-17; items 1 thru 3, and 5 thru 15 from Figure 67-9. Also includes NAS6604-9 bolt, NAS1149F0432P washer [2], MS21042L4 nut, and B330-13 palnut from Figure 67-31 or Figure 67-27.)	X	1
35	C058-7 *	Grip Assembly - Pilot/Co-Pilot (Hydraulic R44s, O-540 engine. Includes items 7, 8, 11, 14, 21, 22, 24, 31 thru 33, 38, 42, 43, 44, 50 thru 53, 84, 85, and 87 thru 93.)	X	1
36	B227-4	Dress Nut	X	1
37	B227-3	Lockwasher	X	1
38	C214-10	Plate ("Freq, Ch Sel, Hyd")	X	1
	C214-11	Plate ("Com Freq, Nav Freq, Hyd")	X	1
	C214-12	Plate ("Audio Panel Xmit, Freq, Hyd")	X	1
39	D682-9 **	Decal - "Start" (for earlier R44 IIs)	X	1
40	B227-2 **	Switch (starter, includes items 37 and 38)	X	1
41	D443-2 **	Mount (install using item 42)	X	1
42	B270-15	Adhesive	X	A/R
43	B300-3	Switch Assembly - Hydraulic (Incl items 36 and 37)	X	1
44	D688-3	Cover (install using item 42)	X	1
45	B209-4	End Cap	X	1
46	D684-1	Spring	X	1
47	MS17825-5	Nut	X	1
48	MS24665-69	Cotter Pin	X	1
49	A141-40	Washer	X	1
50	D774-6	Spring (alternate part no. C0180-018-0690S)	X	1
NOTES * Ship S/N 0663 and subsequent. ** Ship S/N 10001 and subsequent.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
CYCLIC GRIP ASSEMBLY (Cont'd)				
67-11-51	A321-16	Pin	X	1
52	D688-1	Grip (Ref, no longer available)	X	1
53	B209-3	Plug	X	1
54	B195-6	Post Light Assembly - 14-volt (includes B196-1 lamp, wiring, and connector)	X	1
	B195-16	Post Light Assembly - 28-volt (includes B196-21 lamp, wiring, and connector)	X	1
55	MS16562-23	Spring Pin	X	1
56	D333-8	Block	X	1
57	MS27039C1-11	Screw	X	1
58	D774-3	Spring (alternate part no. C0180-020-0380S)	X	1
59	B208-1	Ball	X	1
60	D333-6	Catch	X	1
61	2010	Bushing	X	1
62	NAS1149F0332P	Washer	X	1
63	MS21042L3	Nut	X	1
64	C444-3	Cover (O-540 ships. C444-5 if HSI-equipped.)	X	1
65	C444-7	Cover (IO-540 ships. C444-9 if HSI-equipped. Not shown.) . .	X	1
66	C069-6*	Cyclic Control Assembly - Police (Hydraulic R44s; IO-540 engine. Includes items 12, 59 and 61 from Figure 67-1; items 29, 45 thru 49, 54, 63 and 65, 67, 68, 71 and 74 from Figure 67-11; items 1, 3 thru 5, 15, 16, 25, 26, 32, and 34 from Figure 67-17; items 1 thru 3, and 5 thru 15 from Figure 67-9. Also includes NAS6604-9 bolt, NAS1149F0432P washer [2], MS21042L4 nut, and B330-13 palnut from Figure 67-31 and Figure 67-27.)	X	1
67	C058-6*	Grip Assembly - Cyclic, Police (Hydraulic R44s; IO-540 engine. Includes items 7, 8, 11, 15, 24, 38, 40 thru 43, 50, and 86 thru 93.)	X	1
68	A601-3	Grip - Foam (install using item 42)	X	1
69	C069-7**	Cyclic Control Assembly (Hydraulic R44s, IO-540 engine. Includes items 12, 59, and 61 from Figure 67-1; items 29, 45 thru 49, 54, 65, 70, 71 and 74 from Figure 67-11; items 1, 3 thru 5, 15, 16, 25, 26, 32, and 34 from Figure 67-17; items 1 thru 3, and 5 thru 15 from Figure 67-9. Also includes NAS6604-9 bolt, NAS1149F0432P washer [2], MS21042L4 nut, and B330-13 palnut from Figure 67-31 and Figure 67-27.)	X	1
NOTES * Ship S/N 0663 and subsequent. ** Ship S/N 10001 and subsequent.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY (Cont'd)		
67-11-70	C058-8*	Grip Assembly - Cyclic (Hydraulic R44s; IO-540 engine. Includes items 3, 4, 7, 8, 11, 15, 21, 22, 24, 31 thru 33, 38, 40 thru 43, 50 thru 53, 84, and 86 thru 93.)	X	1
71	SR-3035B	Rivet	X	2
72	B306-4	Mount	X	1
73	B158-1	Heat Shrink	X	A/R
74	C049-9	Switch Assembly - Landing Light (Incl items 72, 73, 77, TT13D2T04 switch, and wires, assembled)	X	1
	TT13D2T04	Switch (Incl items 75 and 76)	X	1
75	—	Hex Nut	O	1
76	—	Lockwasher	O	1
77	298D01A56	Dress Nut	X	1
78	A756-22	Grip Weldment	X	1
79	G725-2	Tube	X	1
80	C654-53	Decal (flight limitations, O-540)	X	1
	C654-54	Decal (flight limitations, IO-540)	X	1
81	G725-3	Collar	X	2
82	B175-12	Loop Tape	X	A/R
83	SR-2032B	Rivet	X	2
84	MS24G93-S1	Screw	X	4
85	D379-1	Grip (O-540 ships, not shown)	X	1
86	D379-3	Grip (IO-540 ships)	X	1
87	D379-2	Cover (install using item 42)	X	1
88	D690-1	Grip	X	1
89	D690-2	Cover (install using item 42)	X	1
90	B321-22	Collar	X	1
91	MS24694-S3	Screw	X	4
92	NAS1407N9L	Pin	X	2
93	A321-21	Tube	X	1
94	C058-9	Grip Assembly - Co-pilot (Incl items 8, 11, 21, 22, 24, 42, and 88 thru 93)	X	1
NOTES * Ship S/N 10001 and subsequent.				

Intentionally Blank

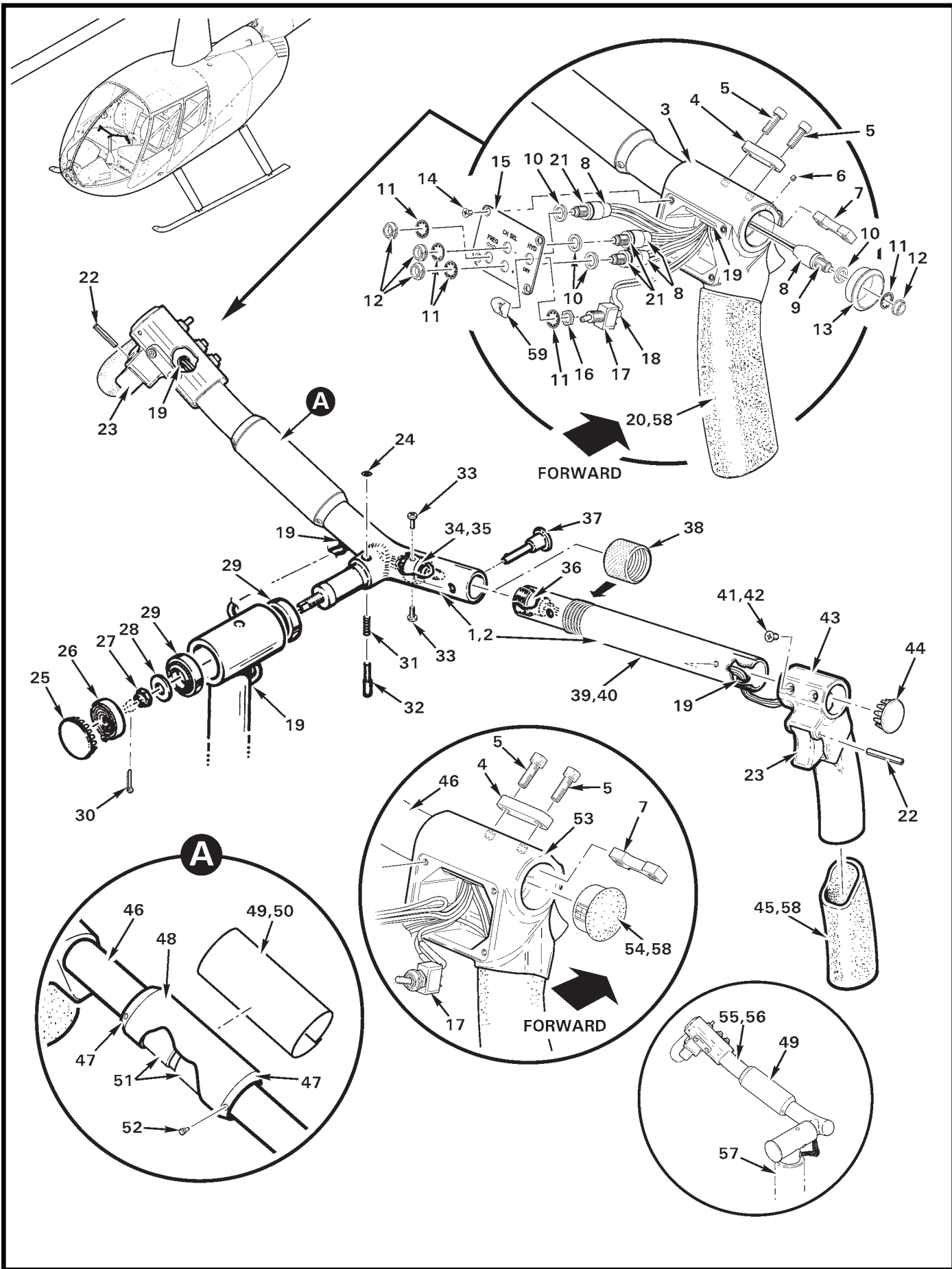


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY*		
67-15B-1	C058-8	Grip Assembly – Cyclic (IO-540 engine. Includes items 3 thru 9, 13 thru 15, 17 thru 24, 31 thru 39, 41 thru 49, 51, 52, and 58.)	X	1
2	C058-7	Grip Assembly – Cyclic (O-540 engine. Includes items 4, 5, 6 thru 8, 14, 15, 17 thru 24, 31 thru 39, 41 thru 48, 50 thru 54, and 58.)	X	1
3	D379-3	Grip	X	1
4	D443-5	Bar	X	1
5	91251A194	Screw	X	2
6	28701L-94C-2	Set Screw	X	1
7	D443-3	Block Assembly	X	1
8	B158-6	Heat Shrink	X	A/R
9	B227-2	Switch Assembly (starter; includes items 10 thru 12)	X	1
10	94773A770	Washer	X	1
11	B227-3	Lockwasher	X	1
12	B227-4	Dress Nut	X	1
13	D443-2	Mount	X	1
14	MS24693-S1	Screw	X	4
15	C214-24	Plate ("Freq Xfer, – User Freq + , Hyd Off")	X	1
16	—	Hex Nut	O	1
17	B300-3	Switch Assembly ("Hyd Off"; includes items 11, 12, and 16)	X	1
18	B158-2	Heat Shrink	X	A/R
19	MS35489-4	Grommet	X	4
20	D379-2	Cover (install using item 58)	X	1
21	B227-2	Switch Assembly (Incl items 10 thru 12)	X	3
22	NAS1407N9L14	Pin	X	2
23	U2-279	Trigger Switch	X	2
24	MS16633-2012	Retaining Ring	X	1
25	B209-4	Plug	X	1
26	D684-1	Spring	X	1
27	MS17825-5	Nut	X	1
28	A141-40	Washer	X	1
29	A647-2	Bearing	X	2
30	MS24665-69	Cotter Pin	X	1
31	D774-6	Spring	X	1
32	A321-16	Pin	X	1

NOTES * C058-6, -7, -8, and -9 grip assemblies revision "AO" and higher.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC GRIP ASSEMBLY* (Cont'd)		
67-15B-33	MS35206-241	Screw	X	2
34	A776-1	Mount	X	1
35	A781-1	Plug	X	1
36	TJT-120	Jack	X	1
37	B232-1	Pin	X	1
38	A321-22	Collar	X	1
39	A321-21	Tube	X	1
40	C058-9	Grip Assembly (Incl items 18, 19, 22, 23, 36 thru 39, 41 thru 45, and 58.)	X	1
41	MS24694-S3	Screw	X	2
42	MS21042L08	Nut (not shown)	X	2
43	D690-1	Grip	X	1
44	B209-3	Plug	X	1
45	D690-2	Cover (install using item 58)	X	1
46	A756-24	Grip Weldment	X	1
47	G725-3	Collar	X	2
48	G725-2	Tube	X	1
49	C654-54	Decal (flight limitations, IO-540 engine)	X	1
50	C654-53	Decal (flight limitations, O-540 engine)	X	1
	C654-59**	Decal (flight limitations, O-540 engine; R44 Cadet)	X	1
51	B175-12	Loop Tape	X	A/R
52	SR-2032B	Rivet	X	4
53	D379-1	Grip	X	1
54	2703	Hole Plug (install using item 58)	X	1
55	C058-6	Grip Assembly – Cyclic ([IO-540] engine; Police helicopter. Includes items 3 thru 9, 13 thru 15, 17 thru 24, 31, 32, 47 thru 49, 51, 52, 56, and 58.)	X	1
56	A756-20	Grip Weldment	X	1
57	A601-3	Grip (Ref)		
58	B270-15	Adhesive	X	A/R
NOTES * C058-6, -7, -8, and -9 grip assemblies revision "AO" and higher. ** Ship S/N 30001 and subsequent.				

Intentionally Blank

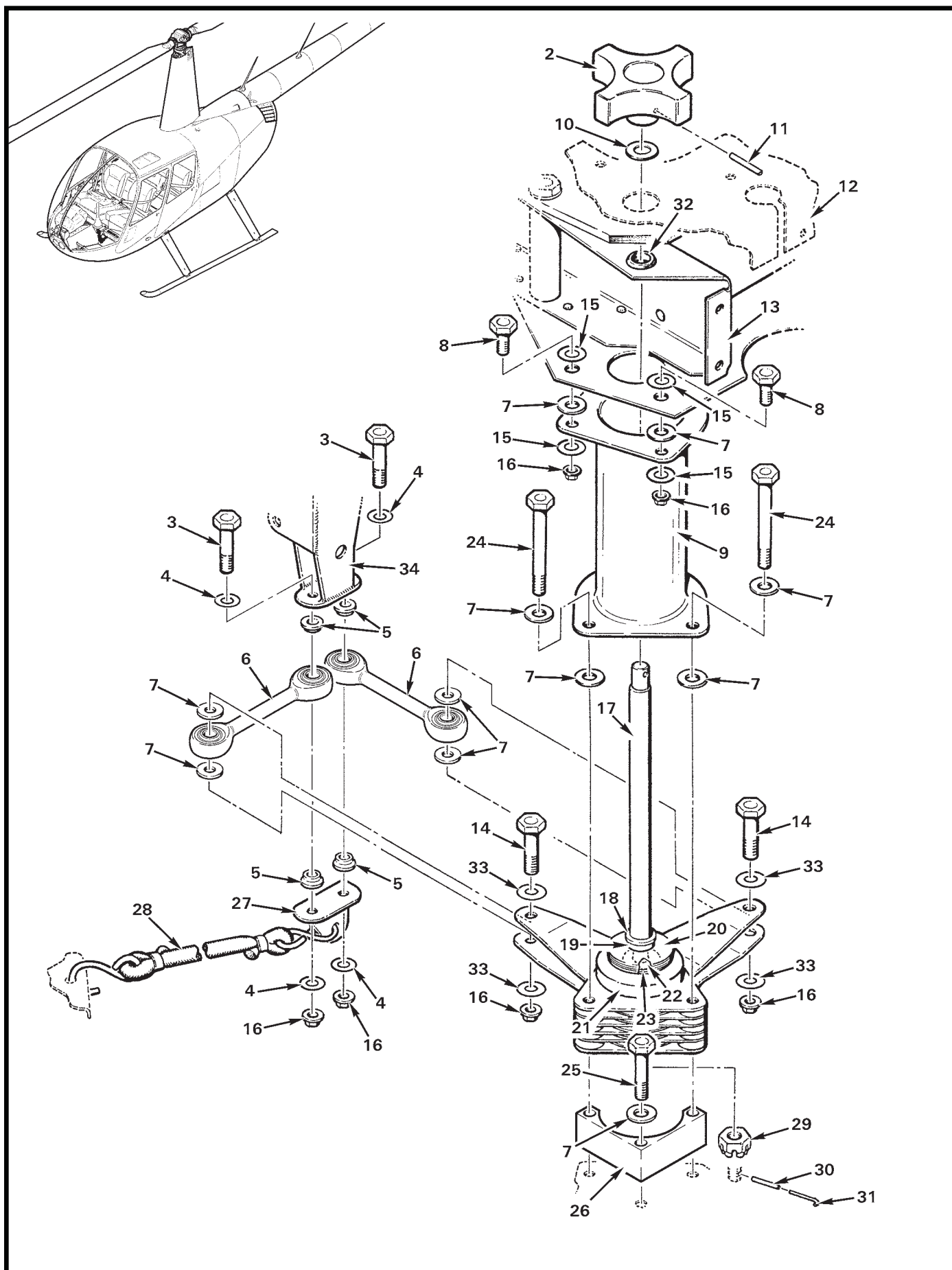


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
CYCLIC FRICTION ASSEMBLY				
67-17-1	C048-1	Cyclic Friction Assembly (Incl items 6, 8, 9, 13 thru 24, 29 thru 31, and 33)	X	1
2	A499-2	Knob	X	1
3	NAS6603-11	Bolt	X	2
4	A141-26	Washer	X	4
5	A341-1	Spacer	X	4
6	B564-1	Link	X	2
7	NAS1149F0363P	Washer ([6] with item 1)	X	10
8	NAS6603-2*	Bolt	X	2
9	D337-1*	Torque Tube Weldment	X	1
10	NAS1149F0463P	Washer (or NAS1149F0432P)	X	A/R
11	MS16562-35	Roll Pin	X	1
12	C444	Cover (Ref)		
13	C338-4*	Cyclic Box Assembly (Ref)		
	C338-1	Cyclic Box Assembly (Ref, Ship S/N 0001 – 0234; not shown)		
14	NAS6603-8	Bolt	X	2
15	NAS1149F0332P	Washer ([2] with item 1)	X	4
16	D210-3	Nut ([2] with item 1)	X	6
17	C130-2	Spacer	X	1
18	NAS1149F0463P	Washer	X	1
19	A130-18	Spacer	X	1
20	A478-1	Spring Washer	X	4
21	A497-1	Washer (Ref)		
22	NAS1149F0632P	Washer	X	1
23	NAS1149D0616J	Washer (installed between items 21 and 22)	X	A/R
24	NAS6603-18	Bolt (ship S/N 0235 and higher)	X	2
	NAS6603-25	Bolt (ship S/N 0001 thru 0234, without item 9 installed)	X	2
25	NAS6603-12	Bolt	X	1
26	C500-5	Spacer	X	1
27	A697-5**	Clip	X	1
28	C918-11*	Elastic Cord Assembly (10 lb)	X	A/R
	C918-12*	Elastic Cord Assembly (15 lb)	X	A/R
	C918-13*	Elastic Cord Assembly (20 lb)	X	A/R
NOTES * Ship S/N 0235 and subsequent. ** Manual control ships only.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CYCLIC FRICTION ASSEMBLY (Cont'd)		
67-17-29	MS17825-4	Nut	X	1
30	MS16562-14	Roll Pin	X	1
31	MS20995C32	0.032 in. dia. Safety Wire	X	A/R
32	NAS557-6A	Grommet	X	1
33	NAS1149D0316J*	Washer	X	4
	NAS1149F0332P	Washer (ship S/N 0001 thru 0234 at this location)	X	4
34	D320-1	Stick Assembly (Ref)		
NOTES * Ship S/N 0235 and subsequent.				

Intentionally Blank

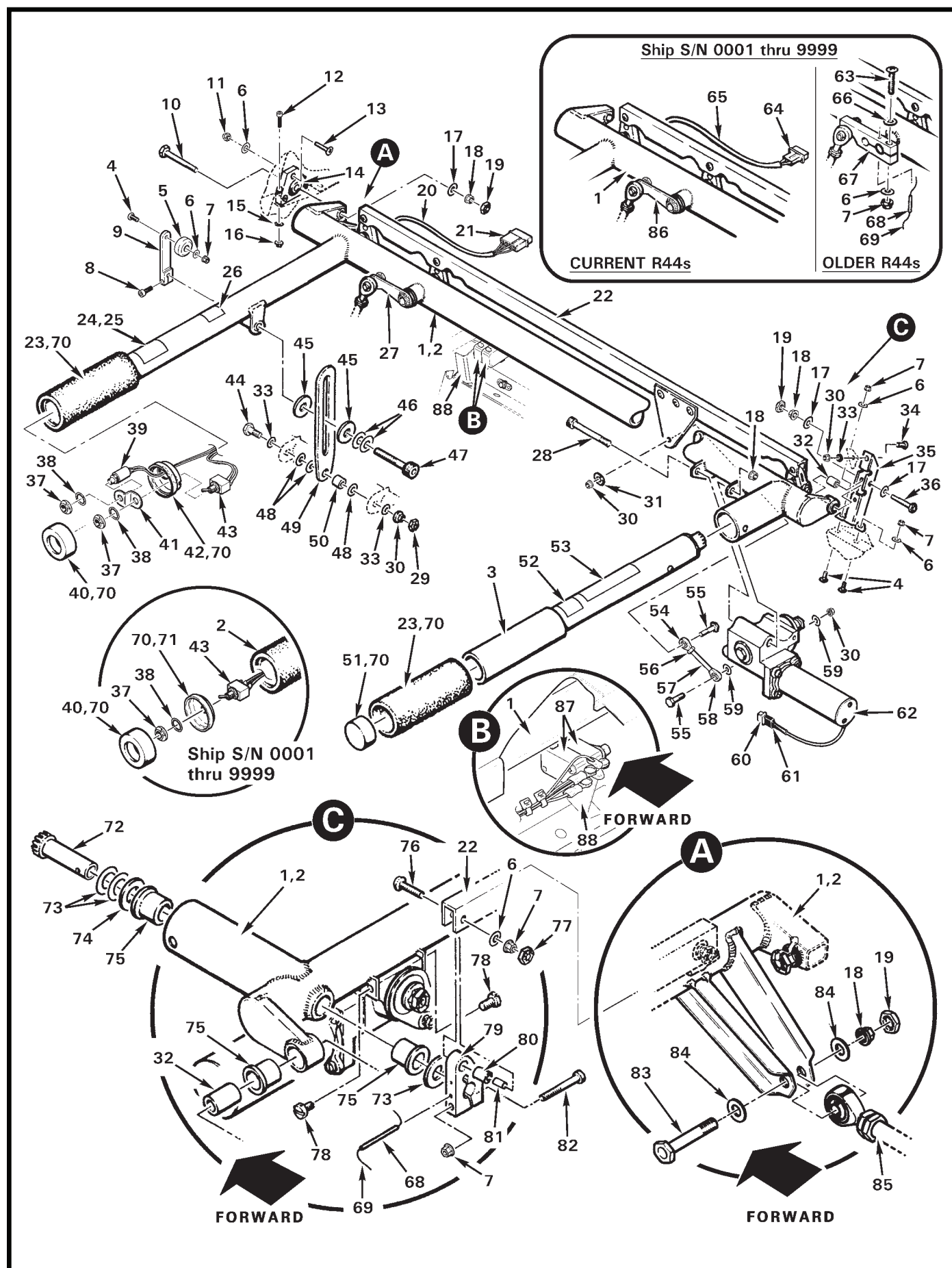


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
COLLECTIVE STICK ASSEMBLY				
67-21-1	C758-1 *	Stick Assembly – Collective (RH [pilot]; includes items 6, 7, 18, 22 thru 24, 26, 28, 30, 31, 40, 43, 54, 56 thru 59, 62, 64, 65, 68 thru 82, and 86)	X	1
2	C758-3 **	Stick Assembly – Collective (RH [pilot]; includes items 6, 7, 18, 20 thru 23, 25 thru 28, 30, 31, 39 thru 43, 54, 56 thru 59, 62, 68 thru 70, 72 thru 82, and 86)	X	1
3	C758-2	Stick Assembly (LH [co-pilot]; includes items 23, 51, 52, and 70)	X	1
4	MS27039C0806	Screw	X	3
5	A431-1	Knob	X	1
6	NAS1149FN816P	Washer	X	10
7	MS21042L08	Nut	X	11
8	NAS1352-08-12P	Screw	X	1
9	A332-2	Lever (supersedes A332-1)	X	1
10	NAS6604-17	Bolt	X	1
11	B340-4	Nut	X	3
12	NAS1352-06-12P	Screw	X	2
13	MS24694-S8	Screw	X	3
14	C329-3	Block Assembly – Collective Bearing	X	1
15	NAS1149FN632P	Washer	X	2
16	MS21042L06	Nut	X	2
17	NAS1149F0432P	Washer	X	3
18	D210-4	Nut	X	3
19	B330-13	Palnut	X	2
20	B158-3	Heat Shrink	X	A/R
21	B263-36	Housing	X	1
	B263-1	Pin	X	4
22	C328-1	Connecting Rod Assembly	X	1
23	A601-1	Grip (install using item 70)	X	2
24	A654-79 *	Decal – “Gov, On-Off”	X	1
25	D682-8 **	Decal – “Gov, On-Off/Start/Throttle (Open)”	X	1
26	A654-7	Decal – “Friction Increase”	X	1
27	C341-1	Arm (Ref; see Figure 76-5)		
28	NAS1351-4-28P	Screw	X	1
29	B330-7	Palnut	X	1
30	D210-3	Nut	X	3
NOTES * Ship S/N 0001 thru 9999. ** Ship S/N 10001 and subsequent.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COLLECTIVE STICK ASSEMBLY (Cont'd)		
67-21-31	NAS1149F0363P	Washer	X	1
32	A105-6	Journal	X	1
33	NAS1149F0332P	Washer	X	3
34	MS27039C1-08	Screw	X	1
35	C303-1	Support	X	1
36	NAS6604-11	Bolt	X	1
37	B227-4	Dress Nut	X	1
38	B227-3	Lockwasher	X	1
39	B280-5*	Switch Assembly (engine starter, includes items 37 and 38) . .	X	1
40	A959-2	End Cap (install using item 70)	X	1
41	B252-7*	Bracket	X	1
42	B252-8*	Mount (install using item 70)	X	1
43	B280-1	Switch Assembly (Incl items 37 and 38)	X	1
44	NAS6603-5	Bolt	X	1
45	A141-20	Washer	X	2
46	B0500-022-S	Belleville Washer	X	2
47	NAS1352-4-24P	Screw	X	1
48	NAS1149F0463P	Washer (or NAS1149F0432P)	X	A/R
49	A333-1	Stop	X	1
50	A130-4	Spacer	X	1
51	A959-1	End Cap (install using item 70)	X	1
52	A654-6	Decal – "Throttle Open"	X	1
53	A654-21	Decal – "No Stowage"	X	2
54	A127-3	Rod End	X	1
55	NAS6603-6	Bolt	X	2
56	AN315-3R	Nut	X	1
57	A430-3	Tube	X	1
58	A498-1	Rod End	X	1
59	NAS620-10L	Washer	X	2
60	B263-32	Housing	X	1
	B263-1	Pin	X	2
61	B158-3	Heat Shrink (around wires)	X	1
	B158-8	Heat Shrink (around connector)	X	2
62	B247-5	Governor Assembly (Incl items 60 and 61)	X	1
63	MS27039C0816	Screw	X	1

NOTES * Ship S/N 10001 and subsequent.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COLLECTIVE STICK ASSEMBLY (Cont'd)		
67-21-64	B263-32	Housing	X	1
	B263-1	Pin	X	2
65	B158-2	Heat Shrink	X	A/R
66	NAS1149FN832P	Washer	X	1
67	C342-1 *	Arm	X	1
68	MS16562-18	Roll Pin	X	4
69	MS20995C32	0.032 in. dia. Safety Wire	X	A/R
70	B270-15	Adhesive	X	A/R
71	B252-4*	Mount (install using item 70)	X	1
72	A765-2	Coupling Assembly (Ref)		
73	NAS1149D0616J	Washer	X	A/R
74	A141-16	Washer	X	6
75	A139-1	Bearing	X	7
76	MS27039C0810	Screw	X	3
77	B330-6	Palnut	X	3
78	NAS1352N08-4	Screw	X	2
79	A325-1	Arm	X	3
80	O4DU04	Bushing	X	3
81	A105-5	Journal	X	3
82	A486-2	Screw	X	3
83	NAS6604-9	Bolt	X	1
84	A141-11	Washer	X	2
85	C121-19	Push-Pull Tube (Ref; see Figure 67-41)		
86	C341-3*	Arm (Ref; see Figure 76-1)		
87	V3-1	Switch – Low RPM Warning/Hourmeter (Ref, see Figure 96-57)		
88	C015	Cabin Assembly (Ref)		
NOTES * Ship S/N 0001 thru 9999.				

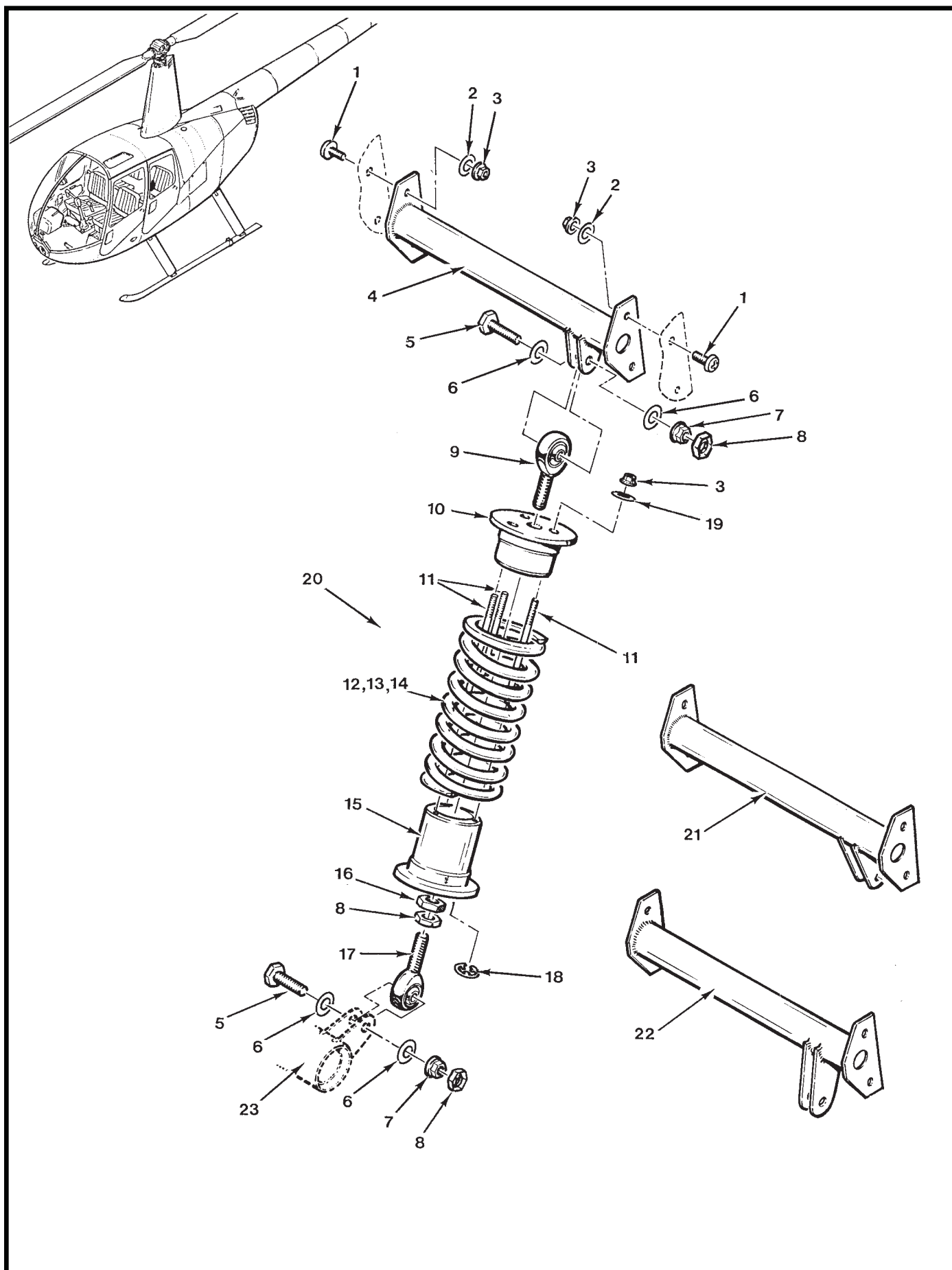


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		COLLECTIVE SPRING ASSEMBLY - ELECTRIC TRIM		
67-25-1	MS27039C1-06	Screw	X	4
2	NAS1149FO332P	Washer	X	4
3	MS21042L3	Nut	X	7
4	C427-7	Support Assembly (use only with C038-5, -6, or -7 assy)	X	1
5	NAS6604-7	Bolt	X	2
6	NAS1149FO432P	Washer	X	4
7	MS21042L4	Nut	X	2
8	B330-13	Palnut	X	3
9	B292-4	Rod End (left-hand thread)	X	1
10	C426-1	Cap	X	1
11	C428-2	Rod (for use with C038-5, -6, or -7 assemblies only)	X	3
12	A429-11	Spring (strong; 156 lb/in., silver-gold plating)	X	1
13	A429-12	Spring (medium; 87 lb/in., green primer color)	X	1
14	A429-13	Spring (weak; 61 lb/in., gray primer color)	X	1
15	C426-2	Cap	X	1
16	AN316-4R	Nut	X	1
17	A127-4	Rod End	X	1
18	MS16633-2018	Retaining Ring* (Install on C428-2 rods to remove or install C038-5, -6, or -7 Collective Spring Assembly)	X	3
19	AN960PD10L	Washer	X	3
20	C038-5	Collective Spring Assembly (strong; includes items 3 [3], 5 thru 11, 12, and 15 thru 19. Replaces C038-3 and -4 assemblies.)	X	1
	C038-6	Collective Spring Assembly (medium; includes items 3 [3], 5 thru 11, 13, and 15 thru 19)	X	1
	C038-7	Collective Spring Assembly (weak; includes items 3 [3], 5 thru 11, 14, and 15 thru 19)	X	1
21	C427-5	Support Assembly (Ref, superseded by item 4. Use only with item 20. No longer available.)		
22	C427-3	Support Assembly (Ref, superseded by item 21. Use only with C038-3 and -4 collective spring assemblies. No longer available.)		
23	C326-7	Bellcrank (Ref; see also Figure 67-45)		
24	A429-9	Spring (strong; 208 lb/in., silver-gold plating. Use only with C038-3 assembly; not shown.)	X	1
25	A429-10	Spring (weak; 114 lb/in., primer color. Use only with C038-4 assembly; not shown.)	X	1
NOTES * Not for in-flight use.				

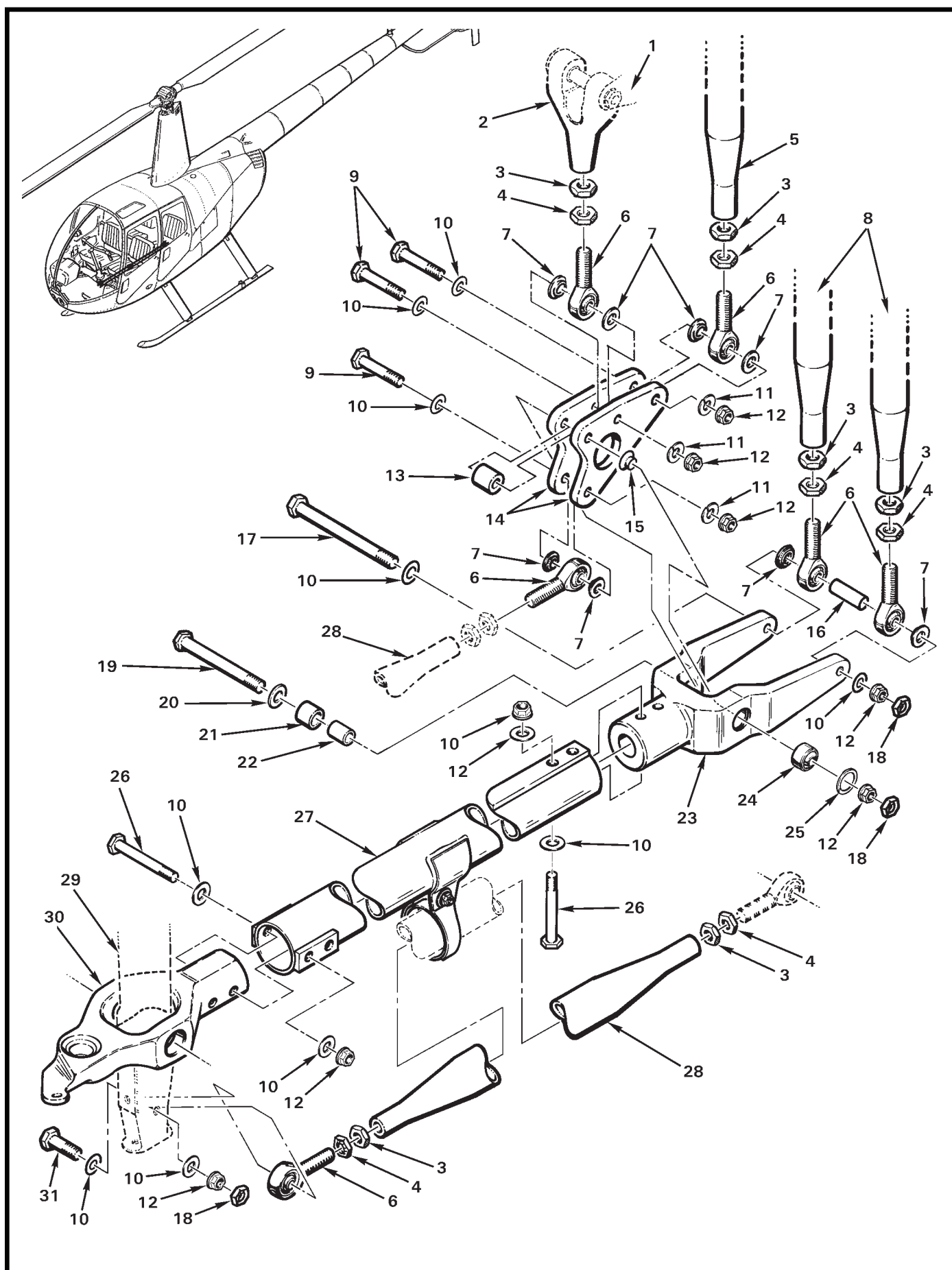


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		MAIN ROTOR CONTROLS*		
67-27-1	C334	Aft Support Assembly (Ref, see Figure 67-41)		
2	A205-3	Fork	X	1
3	AN316-5R	Nut	X	6
4	B330-16	Palnut	X	6
5	C121-30	Push-Pull Tube (Ref; to jackshaft assembly. See Figure 67-53.)	X	1
6	B163-2	Rod End	X	6
7	A115-1	Spacer	X	8
8	C121-28	Push-Pull Tube Assembly (Ref; to forward servos. See Figure 29-1.)	X	2
9	NAS6604-15	Bolt	X	3
10	NAS1149F0432P	Washer	X	3
11	B332-441	Lockwasher	X	3
12	D210-4	Nut	X	10
13	A130-8	Spacer	X	1
14	C958-6	Bellcrank	X	2
15	A137-1	Spacer	X	1
16	C130-40	Spacer	X	1
17	NAS6604-46	Bolt	X	1
18	B330-13	Palnut	X	3
19	NAS6604-36	Bolt	X	1
20	NAS1149F0463P	Washer	X	1
21	O6DU06	Bearing	X	1
22	A105-6	Journal	X	1
23	D696-4	Yoke Assembly (Small rod end; includes D696-2 yoke, and items 21, 24, and 25.)	X	1
	D696-2	Yoke	O	1
24	B115-1	Bearing (install using B270-11 adhesive)	X	1
25	WH-62-S02	Ring	X	1
26	NAS6604-25	Bolt	X	4
27	C319-5	Torque Tube	X	1
28	C121-1	Push-Pull Tube Assembly (Incl items 3, 4, and 6)	X	1
NOTES * Ship S/N 1001 and subsequent. Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		MAIN ROTOR CONTROLS* (Cont'd)		
67-27-29	C069	Cyclic Control Assembly (Ref)		
30	C177-3	Pivot	X	1
31	NAS6604-9	Bolt	X	1
32	C175-4	Cyclic Pivot Assembly (Ref; includes items 2 thru 4 [4 each], 6, 7, and 9 thru 28. Also includes items 1, 4, 20, 37, 39, and 41 from Figure 67-41.)		
NOTES * Ship S/N 1001 and subsequent.				

Intentionally Blank

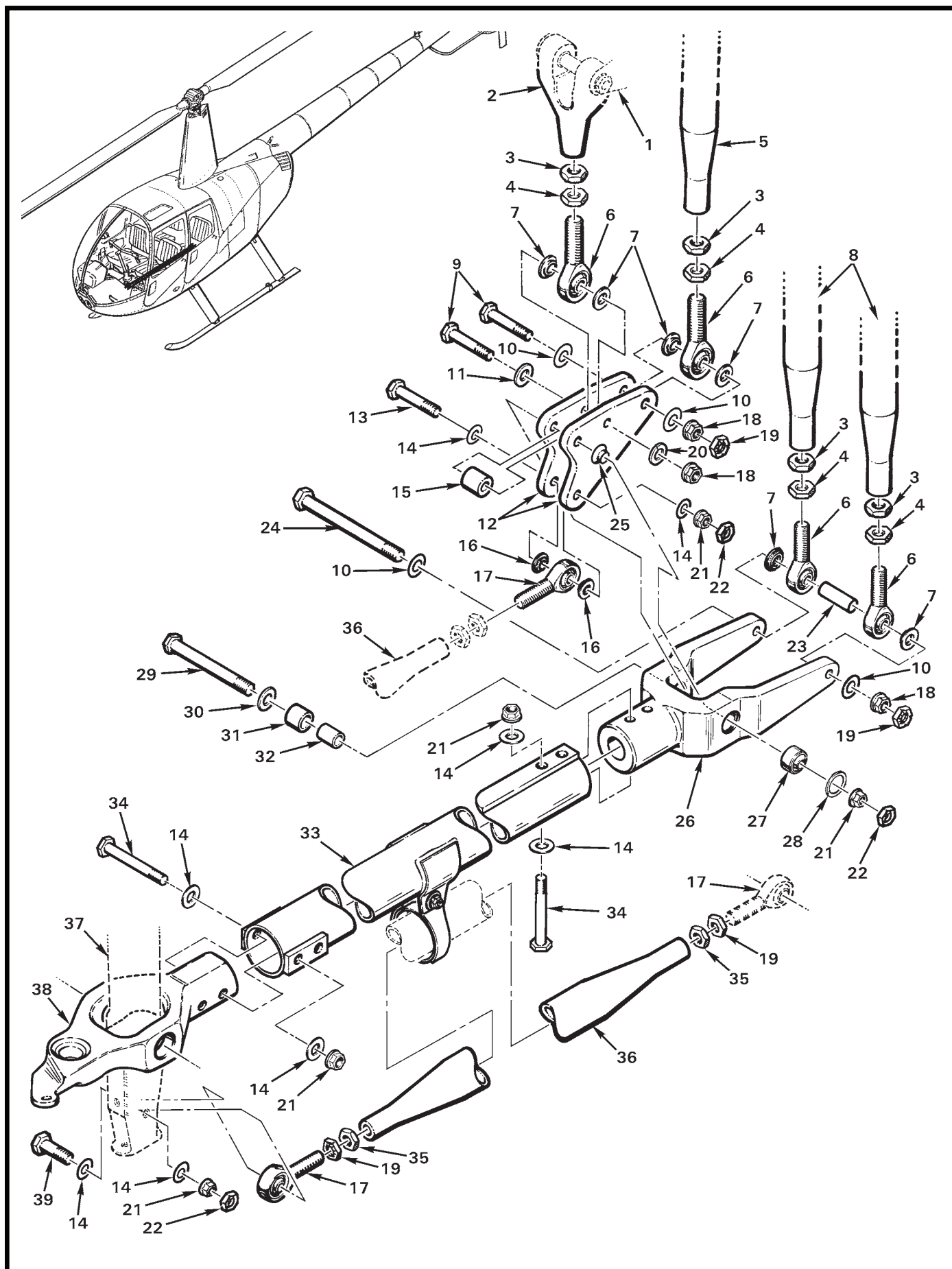


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		MAIN ROTOR CONTROLS*		
67-31-1	C334	Aft Support Assembly (Ref, see Figure 67-45)		
2	A205-5	Fork	X	1
3	AN316-6R	Nut	X	4
4	B330-19	Palnut	X	4
5	C121-4	Push-Pull Tube Assembly (Ref; includes items 3, 4, and 6)		
6	D173-1	Rod End	X	4
7	C115-1	Spacer	X	6
8	C121-24**	Tube (Ref)		
9	NAS6605-16	Bolt	X	2
10	NAS1149F0532P	Washer	X	4
11	NAS1149F0563P	Washer	X	1
12	C958-5	Bellcrank	X	2
13	NAS6604-16	Bolt	X	1
14	NAS1149F0432P	Washer	X	13
15	A130-8	Spacer	X	1
16	A115-1	Spacer	X	2
17	A101-4	Rod End	X	2
18	D210-5	Nut	X	3
19	B330-16	Palnut	X	2
20	B332-45	Washer	X	1
21	D210-4	Nut	X	8
22	B330-13	Palnut	X	3
23	C130-7	Spacer	X	1
24	NAS1305-46	Bolt	X	1
25	A137-1	Spacer	X	1
26	D696-4	Yoke Assembly (Large rod end; includes D696-1 yoke, and items 27, 28, and 31.)	X	1
	D696-1	Yoke	O	1
27	B115-1	Bearing (install using B270-11 adhesive)	X	1
28	WH-62-S02	Ring	X	1
29	NAS6604-36	Bolt	X	1
30	NAS1149F0463P	Washer	X	1
NOTES * Ship S/N 1000 and prior with hydraulic controls. ** Order items 3, 4, and 6 as required.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		MAIN ROTOR CONTROLS* (Cont'd)		
67-31-31	06DU06	Bearing	X	1
32	A105-6	Journal	X	1
33	C319-5	Torque Tube	X	1
34	NAS6604-25	Bolt	X	4
35	AN316-5R	Nut	X	2
36	C121-1	Push-Pull Tube Assembly (Incl items 17, 19, and 35)	X	1
37	C069	Cyclic Control Assembly (Ref)		
38	C177-3	Pivot	X	1
39	NAS6604-9	Bolt	X	1
40	C175-3	Cyclic Pivot Assembly* (Ref; includes items 2 thru 4, 6, 7, 9 thru 16, 18 thru 34, and 36. Also includes items 12, 36, and 41 from Figure 67-45.)		
NOTES * Ship S/N 1000 and prior with hydraulic flight controls.				

Intentionally Blank

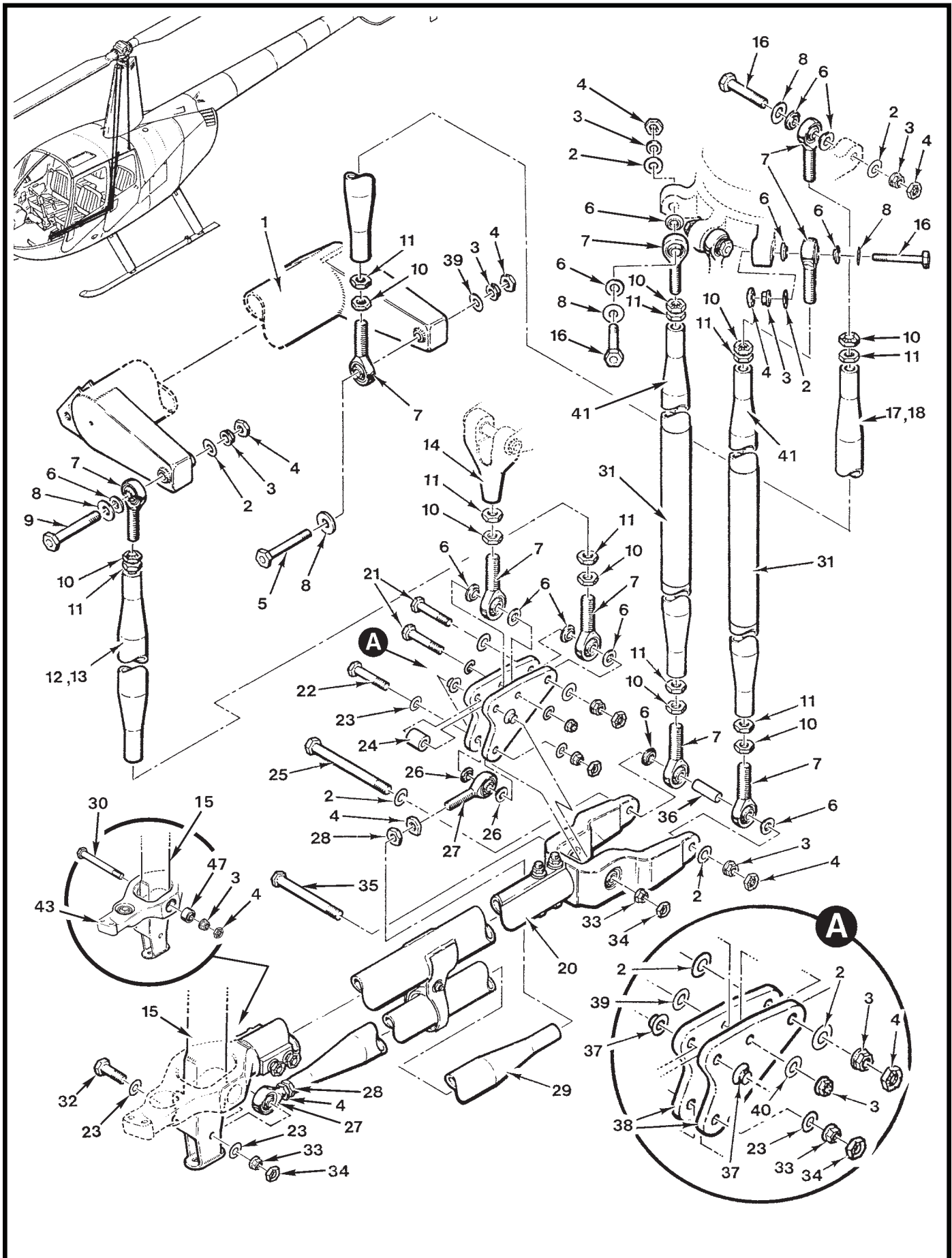


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		MAIN ROTOR CONTROLS		
67-35-1	C337-1	Jackshaft Assembly (Ref, see Figure 67-59)		
2	NAS1149F0532P	Washer	X	10
3	D210-5	Nut	X	8
4	B330-16	Palnut	X	9
5	NAS6605-25	Bolt	X	1
6	C115-1	Spacer	X	13
7	D173-1	Rod End	X	13
8	C141-1	Washer	X	4
9	NAS6605-26	Bolt	X	1
10	B330-19	Palnut	X	9
11	AN316-6R	Nut	X	9
12	C121-3	Push-Pull Tube Assembly (Ref; includes items 7, 10, 11, and 13)		
13	—	Tube (Ref)		
14	A205-5	Fork Assembly (Ref, see also Figure 67-45)		
15	C320	Cyclic Stick Assembly (Ref)		
16	NAS6605-19	Bolt	X	3
17	C121-5	Push-Pull Tube Assembly (Incl items 7, 10, 11, 18, and 42) . .	X	1
18	—	Tube (Ref)		
19	C198-1	Swashplate – Lower (Ref)		
20	C319-3	Torque Tube (Ref)		
21	NAS6605-16	Bolt	X	2
22	NAS6604-16	Bolt	X	1
23	NAS1149F0432P	Washer	X	4
24	A130-8	Spacer	X	1
25	NAS1305-46	Bolt	X	1
26	A115-1	Spacer	X	2
27	A101-4	Rod End	X	2
28	AN316-5R	Nut	X	2
29	C121-1	Push-Pull Tube Assembly (Incl items 4, 27, and 28)	X	1
30	NAS1305-35	Bolt	X	1
31	A143-4	Sleeve (supersedes A143-1)	X	2
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		MAIN ROTOR CONTROLS (Cont'd)		
67-35-32	NAS6604-8	Bolt	X	1
33	D210-4	Nut	X	3
34	B330-13	Palnut	X	3
35	NAS1304-37	Bolt (do not substitute with NAS6604-37)	X	1
36	C130-7	Spacer	X	1
37	A137-2	Spacer	X	2
38	C958-5	Bellcrank	X	2
39	NAS1149F0532P	Washer	X	2
40	B332-45	Washer	X	1
41	C121-8*	Tube	X	2
42	A143-5	Sleeve (not shown; supersedes A143-3)	X	1
43	C177-5	Pivot Assembly (includes item 44, [2 installed])	X	1
	C177-4	Pivot Assembly (Ref, no longer available. Superseded by C177-5 pivot assembly. Not shown.)		
NOTES * Order items 7, 10, 11, and 31, as required.				

Intentionally Blank

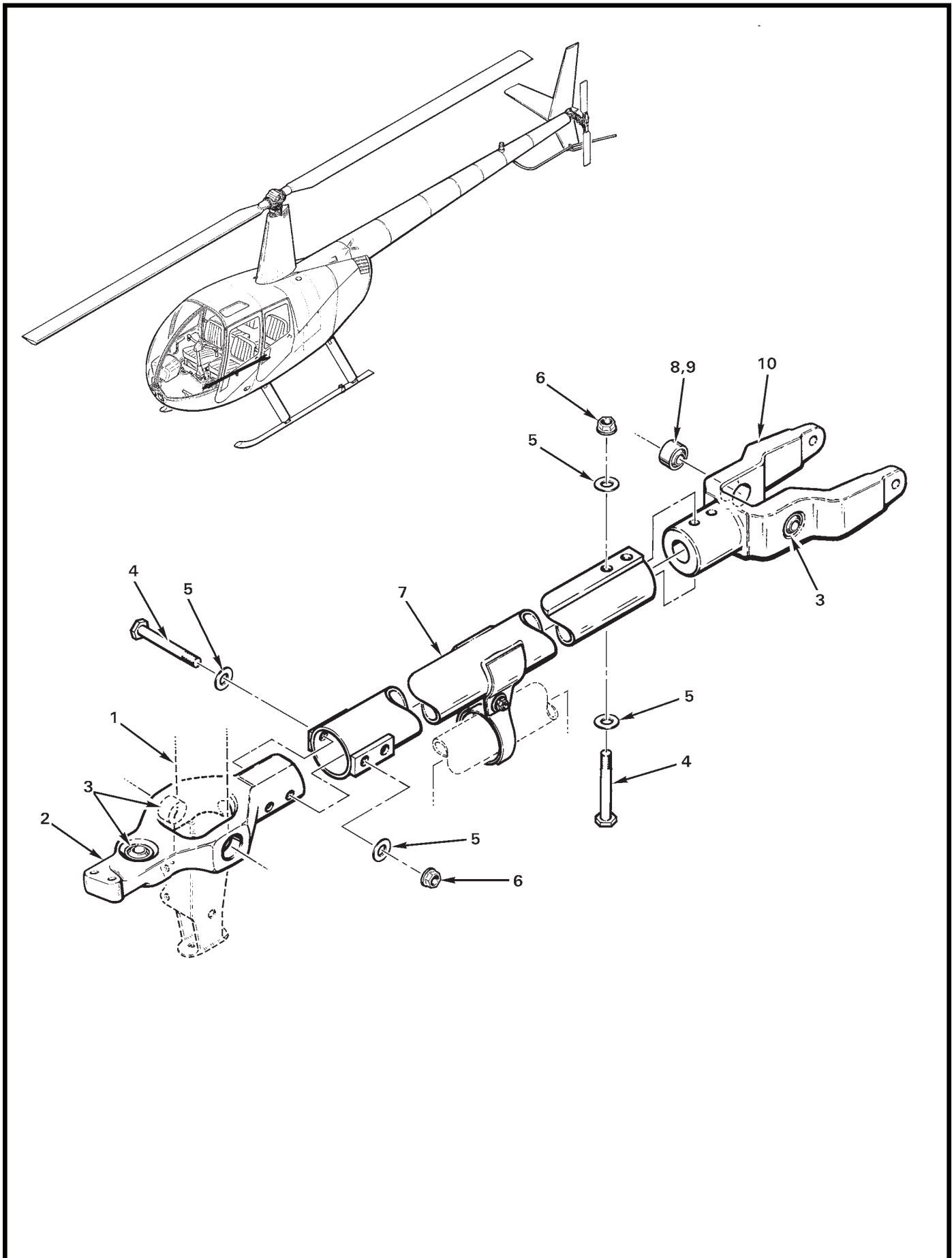


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TORQUE TUBE INSTALLATION		
67-39-1	C320-1	Cyclic Stick Assembly (Ref)		
2	C177-4	Pivot Assembly (Ref, no longer available)		
3	A103-5	Bearing (staked in place; [2] on item 2, [1] on item 10)	O	3
4	NAS6604-25	Bolt	X	1
5	NAS1149F0432P	Washer	X	4
6	MS21042L4	Nut	X	3
7	C319-3	Torque Tube Assembly	X	1
8	A103-5	Bearing (install using item 9)	X	2
9	B270-10	Adhesive	X	A/R
10	C176-3	Yoke (Ref, no longer available)		
NOTES				

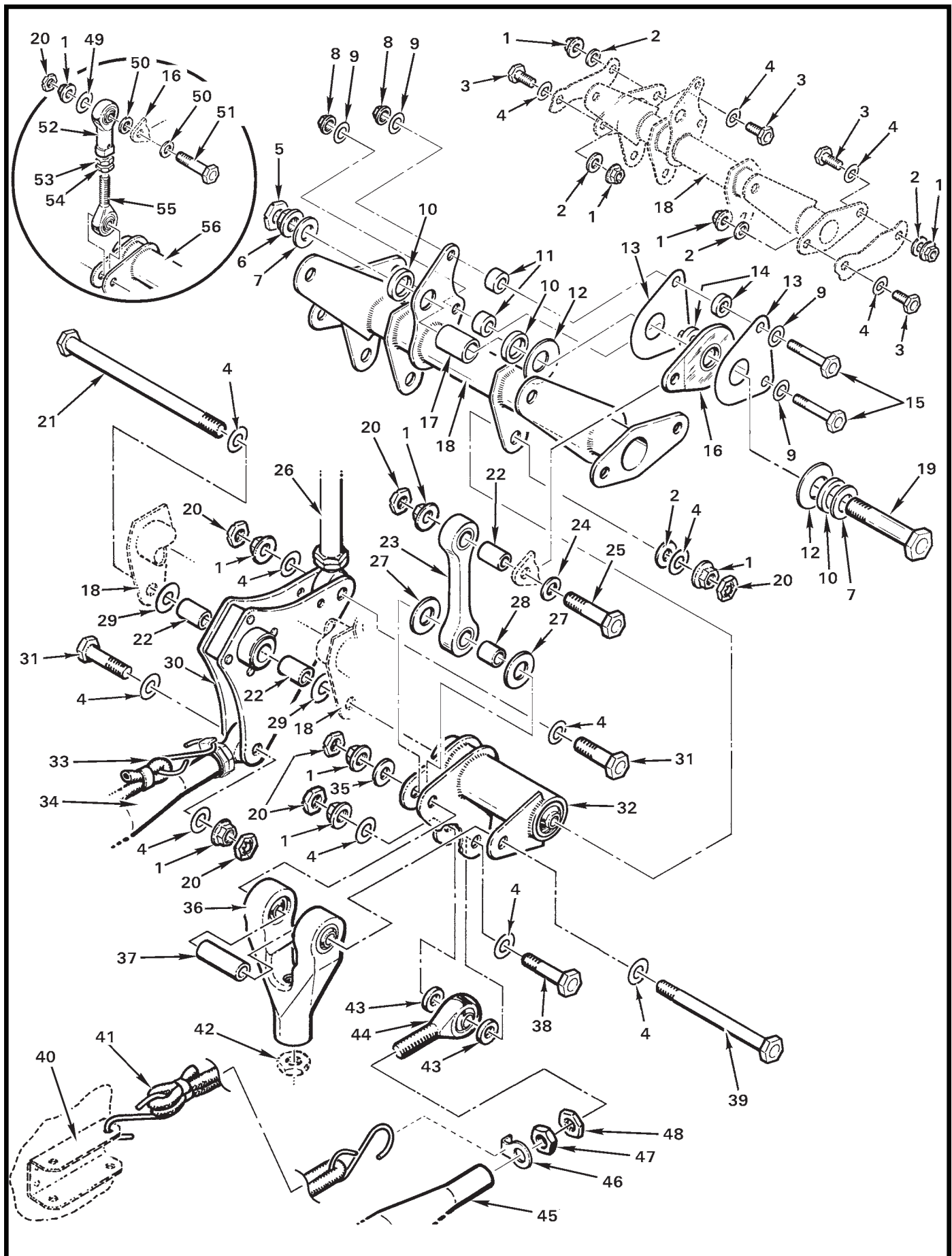


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT SUPPORT ASSEMBLY*		
67-41-1	D210-4	Nut	X	10
2	NAS1149F0463P	Washer	X	5
3	NAS6604-2	Bolt	X	4
4	NAS1149F0432P	Washer	X	12
5	B330-19	Palnut	X	1
6	D210-6	Nut	X	1
7	NAS1149F0663P	Washer	X	2
8	MS21042L3	Nut	X	2
9	NAS1149F0332P	Washer	X	4
10	C130-25	Spacer	X	3
11	A130-21	Spacer	X	2
12	B1000-035-S	Spring Washer	X	2
13	D336-1	Plate	X	2
14	C130-24	Spacer	X	2
15	NAS6603-6	Bolt	X	2
16	B249-6	Arm	X	1
17	B250-13	Journal	X	1
18	C315-9	Support	X	1
19	NAS6606-11	Bolt	X	1
20	B330-13	Palnut	X	4
21	NAS6604-67	Bolt (alternate part no. C311-2)	X	1
22	A105-3	Journal	X	3
23	C327-1	Link (ship S/N 1162 and subsequent)	X	1
24	A141-11	Washer	X	1
25	NAS6604-9	Bolt	X	1
26	C343-1	Push-Pull Tube Assembly – Tail Rotor Control (Ref, see Figure 67-89)		
27	A214-11	Washer	X	2
28	A105-14	Journal	X	1
29	A141-3	Washer	X	2
30	C317-1	Bellcrank Assembly	X	1
31	NAS6604-8	Bolt	X	1
NOTES * Hydraulic controls. Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT SUPPORT ASSEMBLY* (Cont'd)		
67-41-32	C334-4	Bellcrank Assembly (ship S/N 0760 and higher)	X	1
33	A918	Elastic Cord (Ref, see Figure 67-85)		
34	C121-9	Push-Pull Tube Assembly – Tail Rotor Control (Ref, see Figure 67-85)		
35	A214-3	Washer	X	1
36	A205-3	Fork Assembly	X	1
37	C130-12	Spacer	X	1
38	NAS6604-11	Bolt	X	1
39	NAS6604-37	Bolt	X	1
40	A697-3	Anchor (Ref)		
41	C918-15	Elastic Cord (collective)	X	1
42	AN316-5R	Nut (Ref, see Figure 67-35)		
43	A130-47	Spacer	X	2
44	A101-4	Rod End	X	2
45	C121-19	Push-Pull Tube Assembly (Incl items 44, 47, and 48)	X	1
46	A697-6	Tab	X	1
47	AN316-5R	Nut	X	2
48	B330-16	Palnut	X	2
		* * *		
49	NAS1149F0432P**	Washer	X	2
50	A141-11**	Washer	X	1
51	NAS6604-8**	Bolt	X	1
52	B316-4**	Rod End	X	1
53	AN316-4R**	Nut	X	1
54	B330-13**	Palnut	X	1
55	A127-4**	Rod End	X	1
56	C334-3	Bellcrank Assembly (Ref)		
NOTES * Hydraulic controls. ** Ship S/N 1161 and prior.				

Intentionally Blank

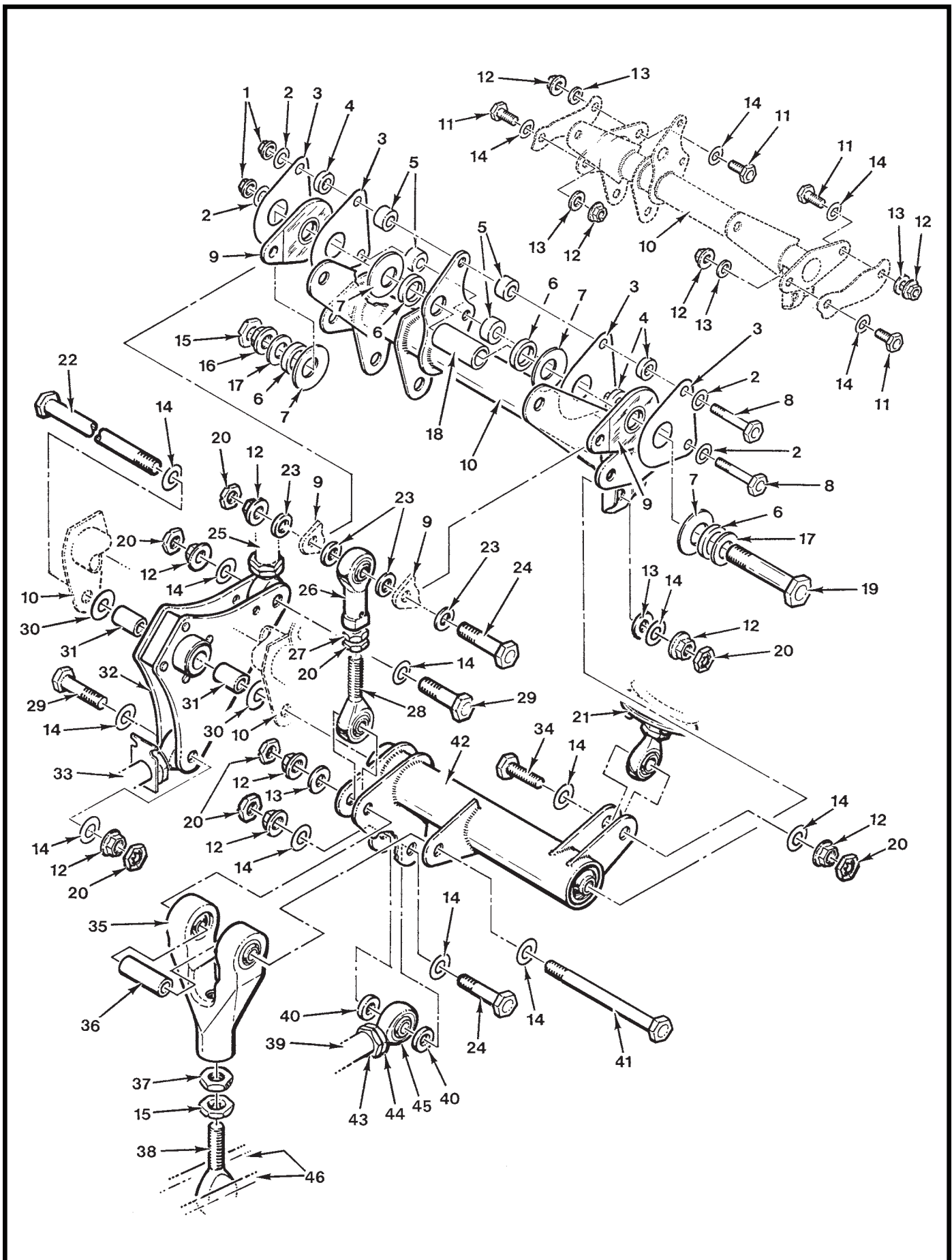


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT SUPPORT ASSEMBLY		
67-45-1	MS21042L3	Nut	X	2
2	NAS1149F0332P	Washer	X	4
3	D336-1	Plate	X	4
4	C130-24	Spacer	X	4
5	A130-21	Spacer	X	4
6	C130-25	Spacer	X	4
7	B1000-050-S	Spring Washer	X	4
8	NAS6603-11	Bolt	X	2
9	B249-6	Arm Assembly	X	2
10	C315-7	Weldment – Aft Support Assembly	X	1
11	NAS6604-2	Bolt	X	4
12	D210-4	Nut	X	11
13	NAS1149F0463P	Washer	X	6
14	NAS1149F0432P	Washer	X	15
15	B330-19	Palnut	X	2
16	D210-6	Nut	X	1
17	NAS1149F0663P	Washer	X	2
18	B250-11	Journal	X	1
19	NAS6606-17	Bolt	X	1
20	B330-13	Palnut	X	7
21	C038	Collective Spring Assembly (Ref, see Figure 67-25)		
22	NAS6604-105	Bolt (alternate part no. C311-1)	X	1
23	A141-11	Washer	X	4
24	NAS6604-11	Bolt	X	2
25	C343-1	Push-Pull Tube Assembly (Ref, see Figure 67-89)		
26	B316-4	Rod End	X	1
27	AN316-4R	Nut	X	1
28	A127-4	Rod End	X	1
29	NAS6604-8	Bolt	X	2
30	A141-3	Washer	X	2
31	A105-3	Journal	X	2
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT SUPPORT ASSEMBLY (Cont'd)		
67-45-32	C317-1	Bellcrank Assembly	X	1
33	C121-9	Push-Pull Tube Assembly (Ref, see Figure 67-85)		
34	NAS6604-7	Bolt	X	1
35	A205-5	Fork Assembly	X	1
36	C130-12	Spacer	X	1
37	AN316-6R	Nut	X	1
38	D173-1	Rod End	X	1
39	C121-19	Push-Pull Tube Assembly (Incl items 43 thru 45)	X	1
40	A130-47	Spacer	X	2
41	NAS1304-38	Bolt	X	1
42	C326-7	Bellcrank	X	1
43	AN316-5R	Nut	X	2
44	B330-16	Palnut	X	2
45	A101-4	Rod End	X	2
46	C958-5	Bellcrank (Ref, see Figure 67-35)		
NOTES				

Intentionally Blank

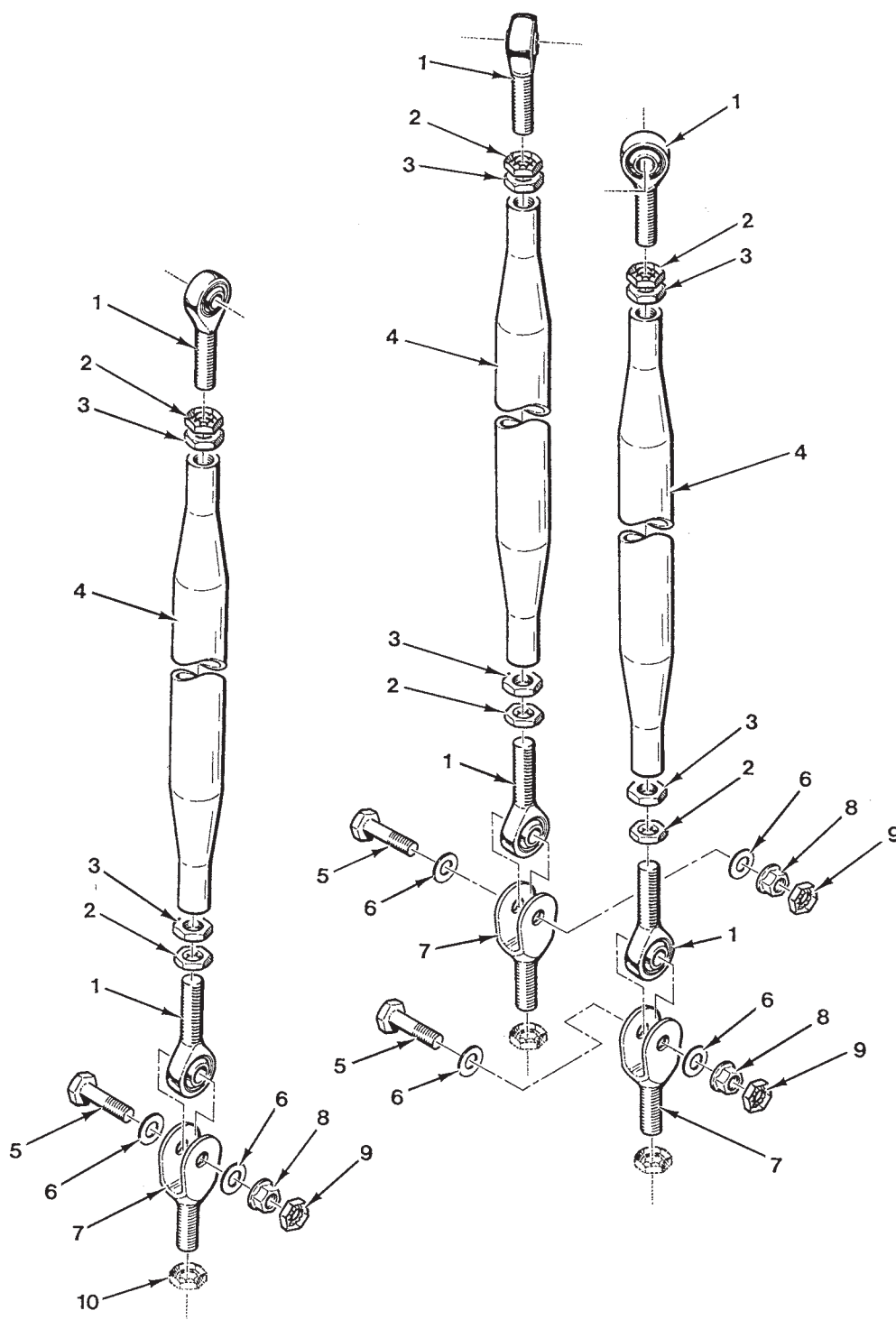


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PUSH-PULL TUBE ASSEMBLIES		
67-49-1	D173-2	Rod End	X	2
2	B330-19	Palnut	X	2
3	AN316-6R	Nut	X	2
4	C121-31	Push-Pull Tube Assembly (Includes items 1 thru 3. Supersedes C121-25; must use C121-31 on R44 II.)	X	3
5	NAS6605-9	Bolt	X	3
6	NAS1149F0532P	Washer	X	6
7	D200-1 *	Clevis (Ref)	X	3
8	D210-5	Nut	X	3
9	B330-16	Palnut	X	3
10	B330-19*	Palnut (Ref)		
NOTES * See also Figure 29-3 and Figure 29-1.				

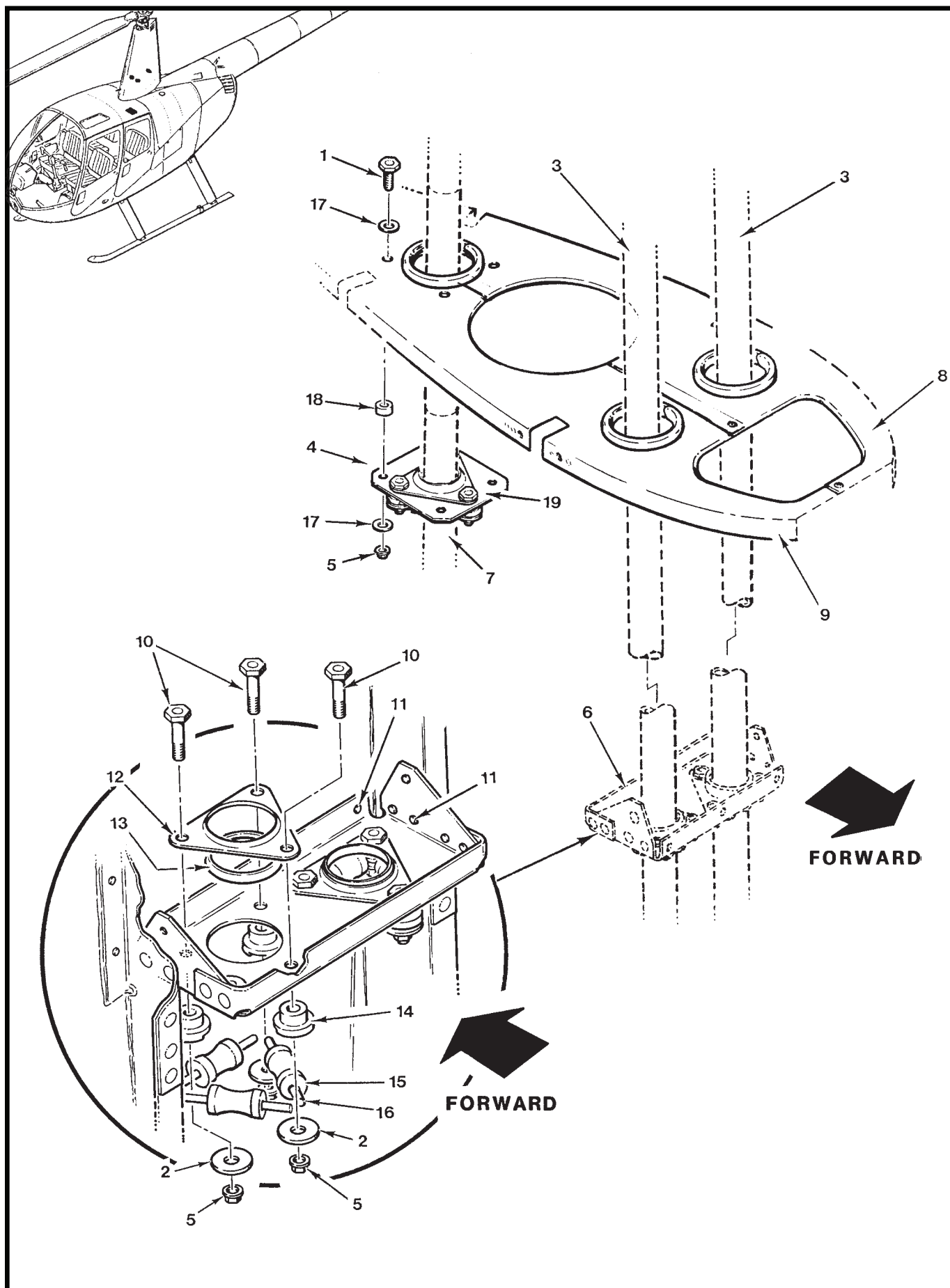


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PUSH-PULL TUBE GUIDE INSTALLATION*		
67-51-1	NAS6603-4	Bolt	X	4
2	A141-17	Washer	X	6
3	C121-7**	Push-Pull Tube Assembly (Ref)		
4	B439-2	Guide Assembly – Aft (Ship S/N 0430 and on. Includes items 2 [3], 5 [3], 10 [3], 12 [1], 13 [1], 14 [3], 15 [3], 16 [3], and 19. Ship S/N 0429 and prior, order KI-128 Upgrade Kit [item 20].)	X	1
5	MS21042L3	Nut	X	10
6	C439-7	Push-Pull Tube Guide Assembly (Incl items 2, 5, 10, and 12 thru 16)	X	1
7	C121-5	Push-Pull Tube Assembly (Ref)		
8	C261-7	Rib (LH, see Figure 53-11	X	1
9	C261-8	Rib (RH, see Figure 53-11)	X	1
10	NAS6603-7	Bolt	X	6
11	MS20470AD4-4	Rivet	X	9
12	C439-8	Retainer	X	2
13	C439-9	Bushing	X	2
14	C439-3	Spacer	X	6
15	C439-4	Roller	X	6
16	C439-5	Pin	X	6
17	NAS1149F0332P	Washer	X	8
18	A130-21	Spacer	X	4
19	B439-4	Plate	X	1
		* * *		
20	KI-128	Aft Push-Pull Tube Guide Assembly Upgrade Installation Kit*** (Incl items 1, 4, 5 [4], 17, 18, and 21)	X	1
21	KI-128-1	Template (not shown)	O	1

NOTES * Manual controls.
 ** No longer available. See Figure 67-35, item 41.
 *** Ship S/N 0001 thru 0429.

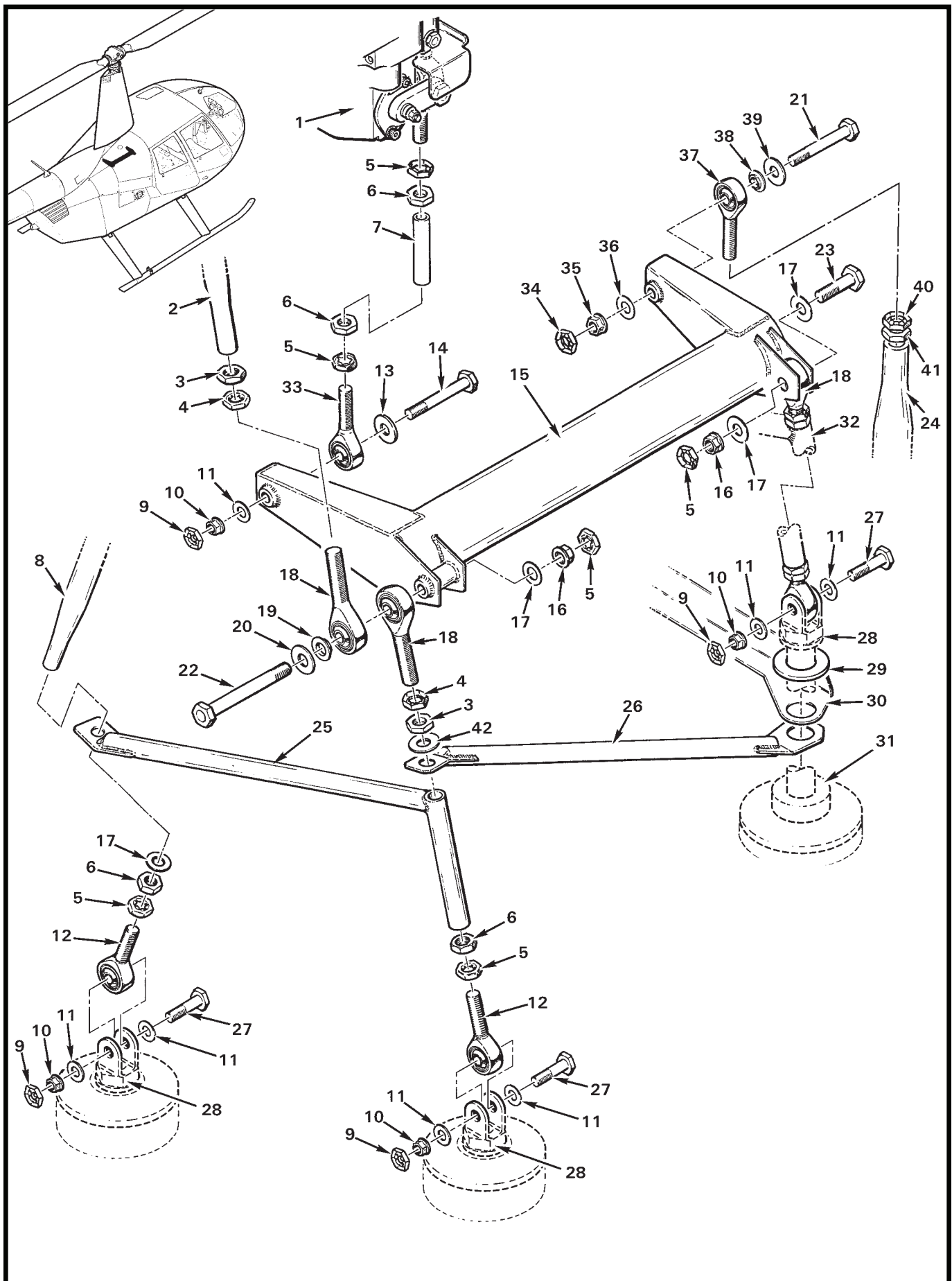


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		JACKSHAFT INSTALLATION		
67-53-1	D212-1	Servo Assembly (aft; Ref)		
2	D204-8	Support Assembly – RH (Ref, see Figure 29-3)		
3	AN316-6R	Nut	X	2
4	B330-19	Palnut	X	3
5	B330-16	Palnut	X	6
6	AN316-5R	Nut	X	4
7	C343-8	Tube	X	1
8	D203-1	Support Assembly – LH (Ref, see Figure 29-3)		
9	B330-13	Palnut	X	4
10	D210-4	Nut	X	7
11	NAS1149F0432P	Washer	X	7
12	A101-4	Rod End	X	2
13	A214-3	Washer	X	1
14	NAS6604-21	Bolt	X	1
15	C339-10*	Jackshaft Weldment	X	1
	C339-1**	Jackshaft Weldment	X	1
16	D210-5	Nut	X	3
17	NAS1149F0532P	Washer	X	4
18	D173-1	Rod End	X	4
19	C115-1	Spacer	X	3
20	C141-1	Washer	X	2
21	NAS6604-23*	Bolt	X	1
	NAS6605-23**	Bolt	X	1
22	NAS6605-33	Bolt	X	1
23	NAS6605-8	Bolt	X	1
24	C121-30*	Push-Pull Tube (Ref, see Figure 67-27)		
	C121-3**	Push-Pull Tube Assembly (Ref, see Figure 67-31)		
25	D208-1	Weldment – Aft	X	1
26	C345-5	Weldment	X	1
27	NAS6604-8	Bolt	X	3
28	A650-4	Fitting (Ref, see Figure 67-59)		
29	NAS1149F1063P	Washer	X	1
NOTES * Ship S/N 1001 and subsequent. ** Ship S/N 1000 and prior.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
JACKSHAFT INSTALLATION (Cont'd)				
67-53-30	C559-6	Brace (Ref, see Figure 67-57)		
31	C130-21	Spacer (Ref, see Figure 67-59)		
32	D207-1	Weldment (Ref, see Figure 67-57)		
33	B163-2	Rod End	X	1
34	B330-13*	Palnut	X	1
	B330-16**	Palnut	X	1
35	D210-4*	Nut	X	1
	D210-5**	Nut	X	1
36	NAS1149F0432P*	Washer	X	1
	NAS1149F0532P**	Washer	X	1
37	B163-2*	Rod End	X	1
	D173-1**	Rod End	X	1
38	A115-1*	Spacer	X	1
	C115-1**	Spacer	X	1
39	A214-3*	Washer	X	1
	C141-1**	Washer	X	1
40	B330-16*	Palnut	X	1
	B330-19**	Palnut	X	1
41	AN316-5R*	Nut	X	1
	AN316-6R**	Nut	X	1
42	NAS1149F0632P	Washer	X	1
NOTES * Ship S/N 1001 and subsequent. ** Ship S/N 1000 and prior.				

Intentionally Blank

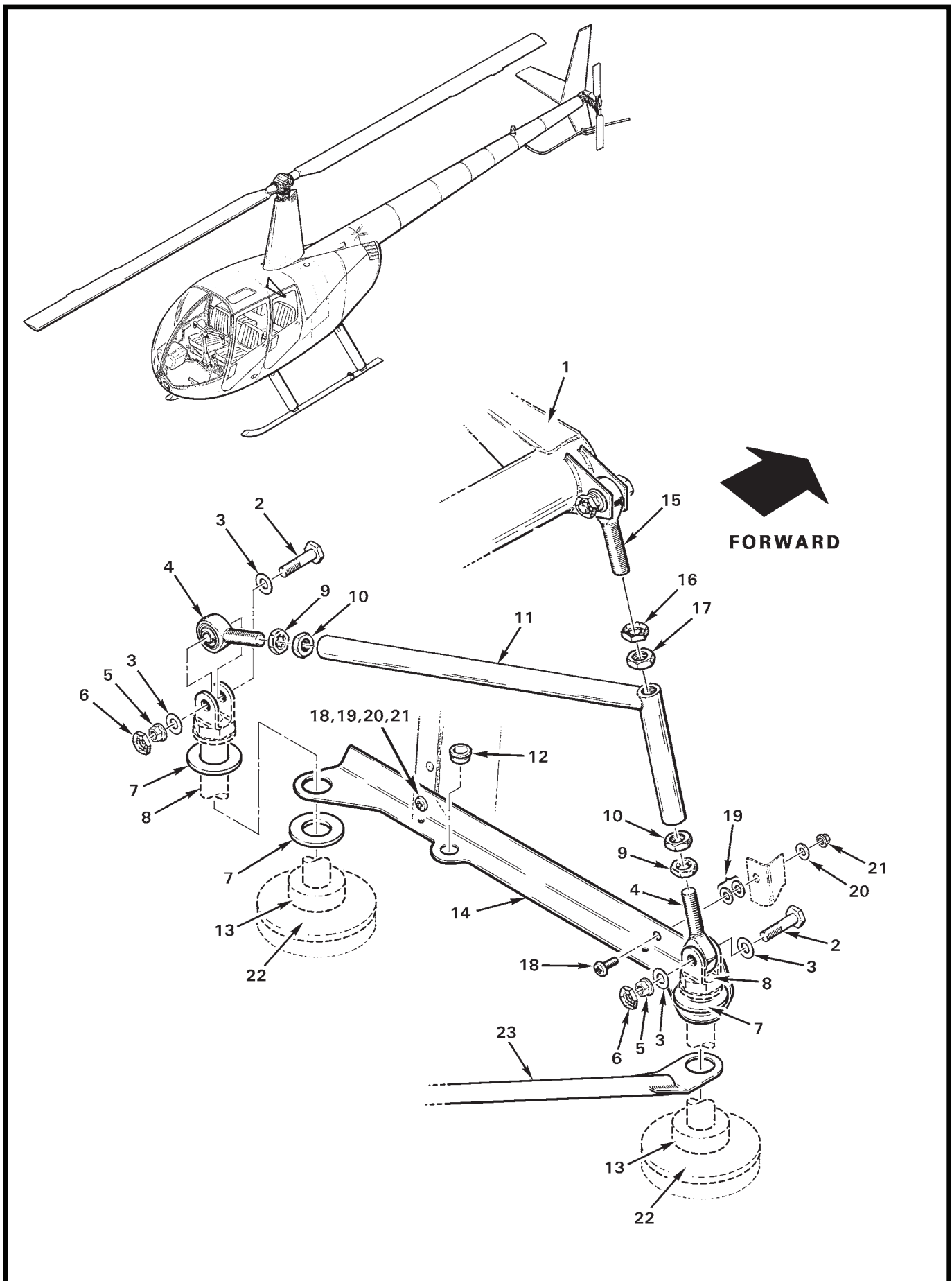


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		JACKSHAFT SUPPORT WELDMENT INSTALLATION		
67-57-1	C339	Jackshaft Weldment (Ref, see Figure 67-53)		
2	NAS6604-8	Bolt	X	2
3	NAS1149F0432P	Washer	X	4
4	A101-4	Rod End	X	2
5	D210-4	Nut	X	2
6	B330-13	Palnut	X	2
7	NAS1149F1063P	Washer (Ref, see Figure 63-1)		
8	A650-4	Fitting (Ref, see Figure 67-59)		
9	B330-16	Palnut	X	2
10	AN316-5R	Nut	X	2
11	D207-1	Weldment (forward)	X	1
12	2813	Bushing	X	1
13	C130-21	Spacer (Ref)		
14	C559-6	Brace	X	1
15	D173-1	Rod End (Ref, see Figure 67-53)		
16	B330-19	Palnut	X	1
17	AN316-6R	Nut	X	1
18	MS27039C0806	Screw (or MS27039C0807 as required)	X	2
19	NAS1149FN832P	Washer (as required at this location for shimming)	X	A/R
20	NAS1149FN832P	Washer ([1] required at this location)	X	2
21	MS21042L08	Nut	X	2
22	A267-1	Washer (Ref)		
23	C345-5	Weldment (Ref, see Figure 67-53)		
NOTES				

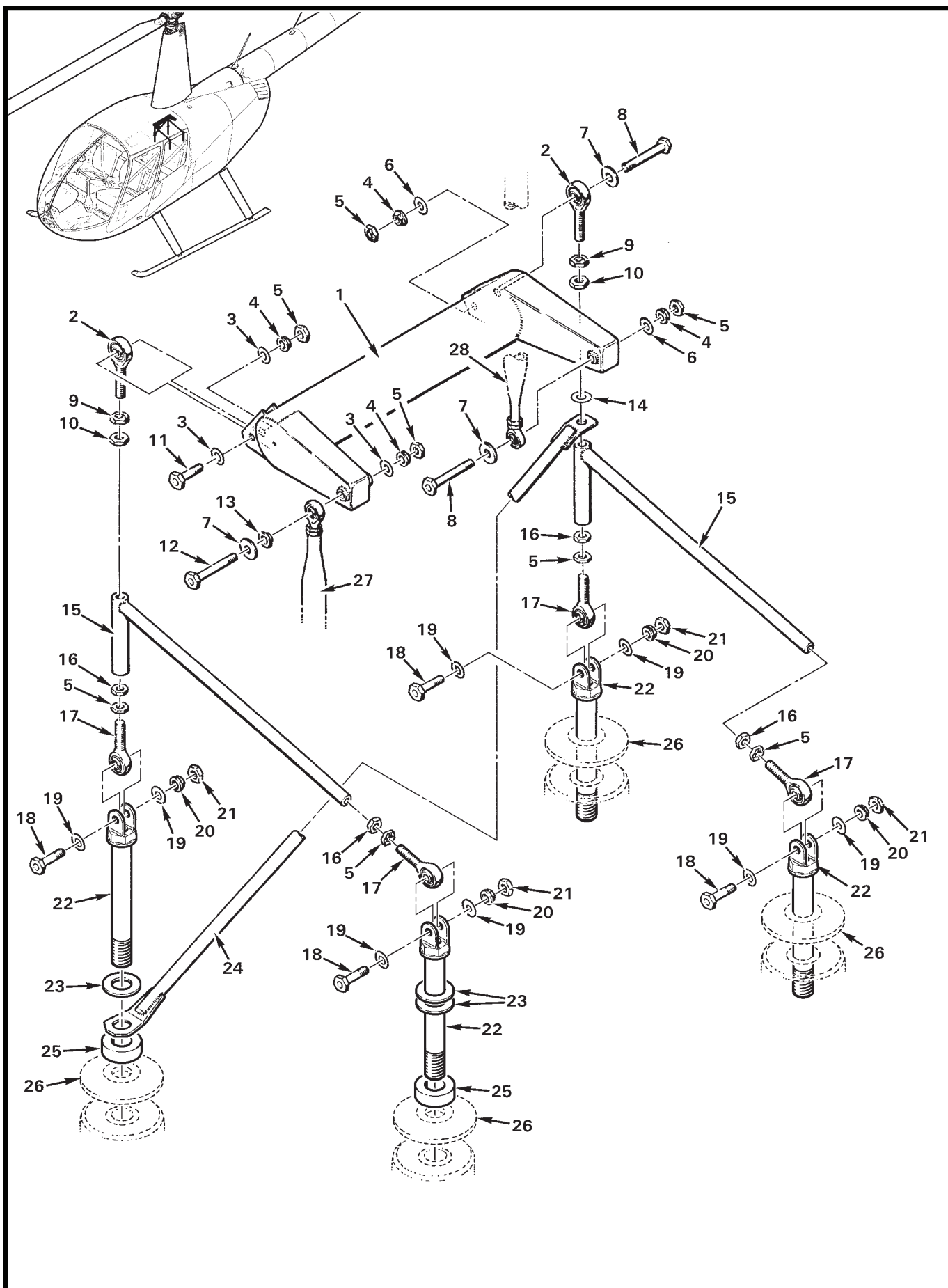


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		JACKSHAFT INSTALLATION		
67-59-1	C337-1	Jackshaft Assembly	X	1
2	D173-1	Rod End	X	2
3	NAS1149F0532P	Washer	X	3
4	D210-5	Nut	X	4
5	B330-16	Palnut	X	8
6	AN960-516	Washer	X	2
7	C141-1	Washer	X	3
8	NAS6605-25	Bolt	X	2
9	B330-19	Palnut	X	2
10	AN316-6R	Nut	X	2
11	NAS6605-8	Bolt	X	1
12	NAS6605-26	Bolt	X	1
13	C115-1	Spacer	X	1
14	NAS1149F0632P	Washer	X	1
15	C344-1	Tube Weldment	X	2
16	AN316-5R	Nut	X	4
17	A101-4	Rod End	X	4
18	NAS6604-8	Bolt	X	4
19	NAS1149F0432P	Washer	X	8
20	D210-4	Nut	X	4
21	B330-13	Palnut	X	4
22	A650-4*	Fitting (supersedes A650-2)	X	4
23	NAS1149F1063P	Washer	X	3
24	C345-1	Strut Weldment	X	1
25	C130-21	Spacer	X	2
26	A267-1	Washer (Ref)		
27	C121-3	Push-Pull Tube Assembly (Ref)		
28	C121-5	Push-Pull Tube Assembly (Ref)		
NOTES * Refer to Figure 63-1 for nut.				

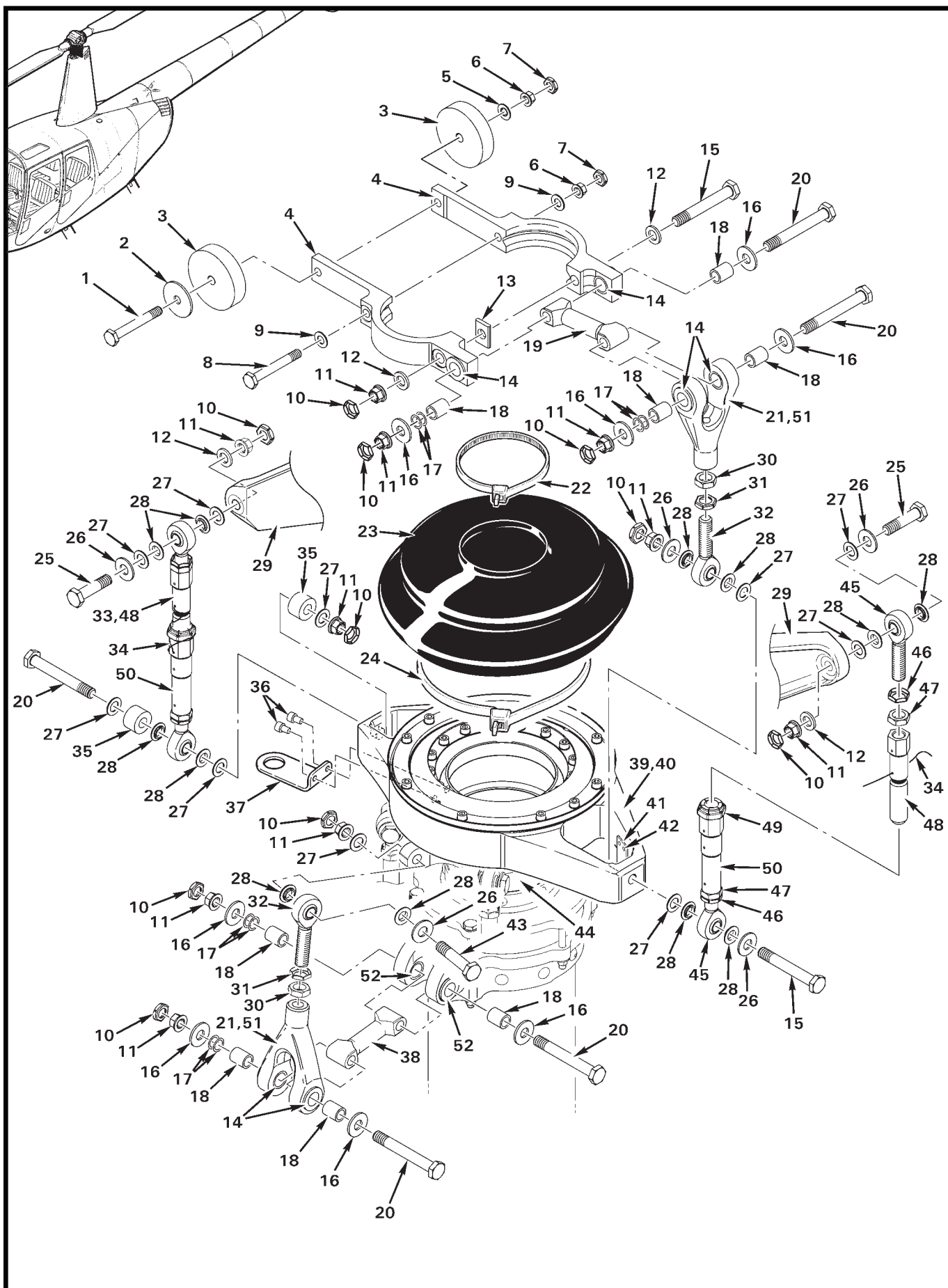


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE INSTALLATION		
67-61-1	NAS6604-24	Bolt (Determine proper bolt length per R44 Maintenance Manual, Section 1.310)	X	1
2	AN970-4	Washer (A/R for balance)	X	A/R
3	A255-1 or	Counter Weight (1.10 in. O.D.)	X	A/R
	A255-2	Counter Weight (1.90 in. O.D.)	X	A/R
4	C203-5	Yoke Assembly (includes item 13)	X	2
5	NAS1149F0432P	Washer (or NAS1149F0463P as required for correct nut engagement)	X	A/R
6	D210-4	Nut	X	2
7	B330-13	Palnut	X	2
8	NAS6604-24	Bolt	X	1
9	NAS1149F0432P	Washer	X	2
10	B330-16	Palnut	X	13
11	D210-5	Nut	X	13
12	NAS1149F0563P	Washer	X	2
13	A210-1	Key	X	1
14	C648-2	Bearing – Journal	X	1
15	NAS6605-28	Bolt	X	2
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	X	8
19	C204-3	Arm (upper 2.87 inches long)	X	1
20	NAS6605-31	Bolt	X	4
21	A205-7	Fork Assembly (includes item 14 [2], install using item 51)	X	2
22	MS3367-7-9	Ty-Rap	X	1
23	C480-1	Boot	X	1
24	MS3367-6-0	Ty-Rap	X	1
25	NAS6605-18	Bolt	X	2
26	C141-1	Washer	X	6
27	NAS1149F0532P	Washer	X	9
28	C115-1	Spacer	X	14
29	C016	Blade Assembly – Main Rotor (Ref)		
30	AN316-6R	Nut	X	2
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE INSTALLATION (Cont'd)		
67-61-31	B330-19	Palnut	X	2
32	D173-3	Rod End	X	2
33	C258-1	Pitch Link Assembly (Incl items 34 thru 49, and 50)	X	2
34	MS20995C32	0.032 in. dia. Safety Wire	X	A/R
35	A255-3	Counter Weight	X	2
36	NAS1352N08-4	Screw	X	2
37	B769-2	Bracket	X	1
38	C204-2	Arm – Lower (2.520 inches long)	X	1
39	C017-6	Swashplate Assembly (Incl items 36, 37, 40, 41, 42, 44, and 53)	X	1
	C017-6R	Swashplate Assembly – Overhaul Exchange (Ref)		
40	C199-2	Swashplate Assembly – Upper (Ref)		
41	C769-2	Interrupter	X	1
42	MS20470AD3	Rivet	X	2
43	NAS6605-17	Bolt	X	4
44	F198-1	Swashplate Assembly – Lower (Ref)		
45	D173-3	Rod End	X	1
46	B330-19	Palnut	X	1
47	AN316-6R	Nut	X	1
48	C258-2	Fitting	X	1
49	21FKF-813	Nut	X	1
50	C258-4	Link Assembly (includes C258-3 link and items 45 thru 47)	X	1
51	B270-13	Sealant (to fill cavity in item 21)	X	A/R
52	C648-2	Bearing (Ref)		
53	C647-12	Bearing Set (life-limited component, see MM § 3.100; not shown)	O	1
NOTES				

Intentionally Blank

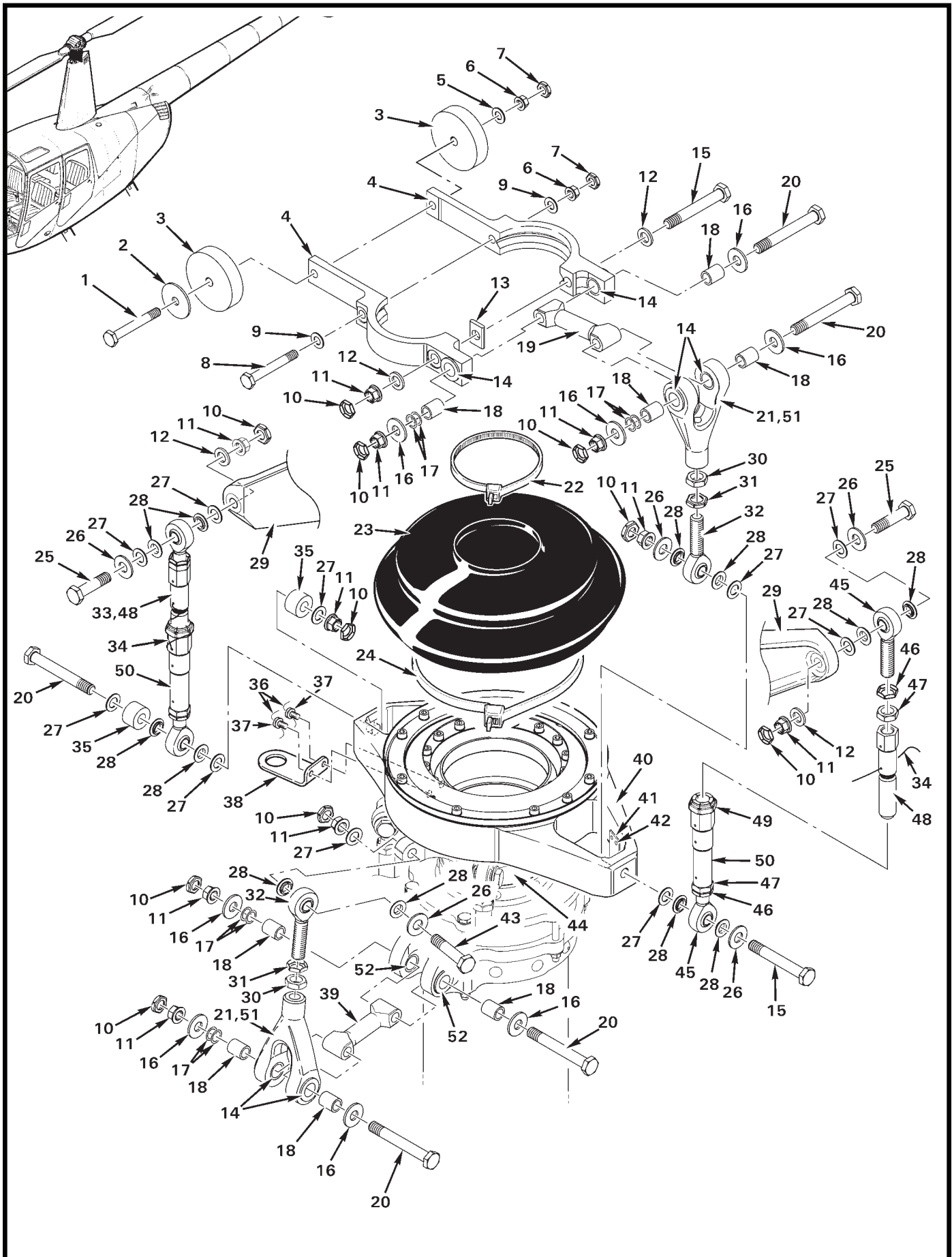
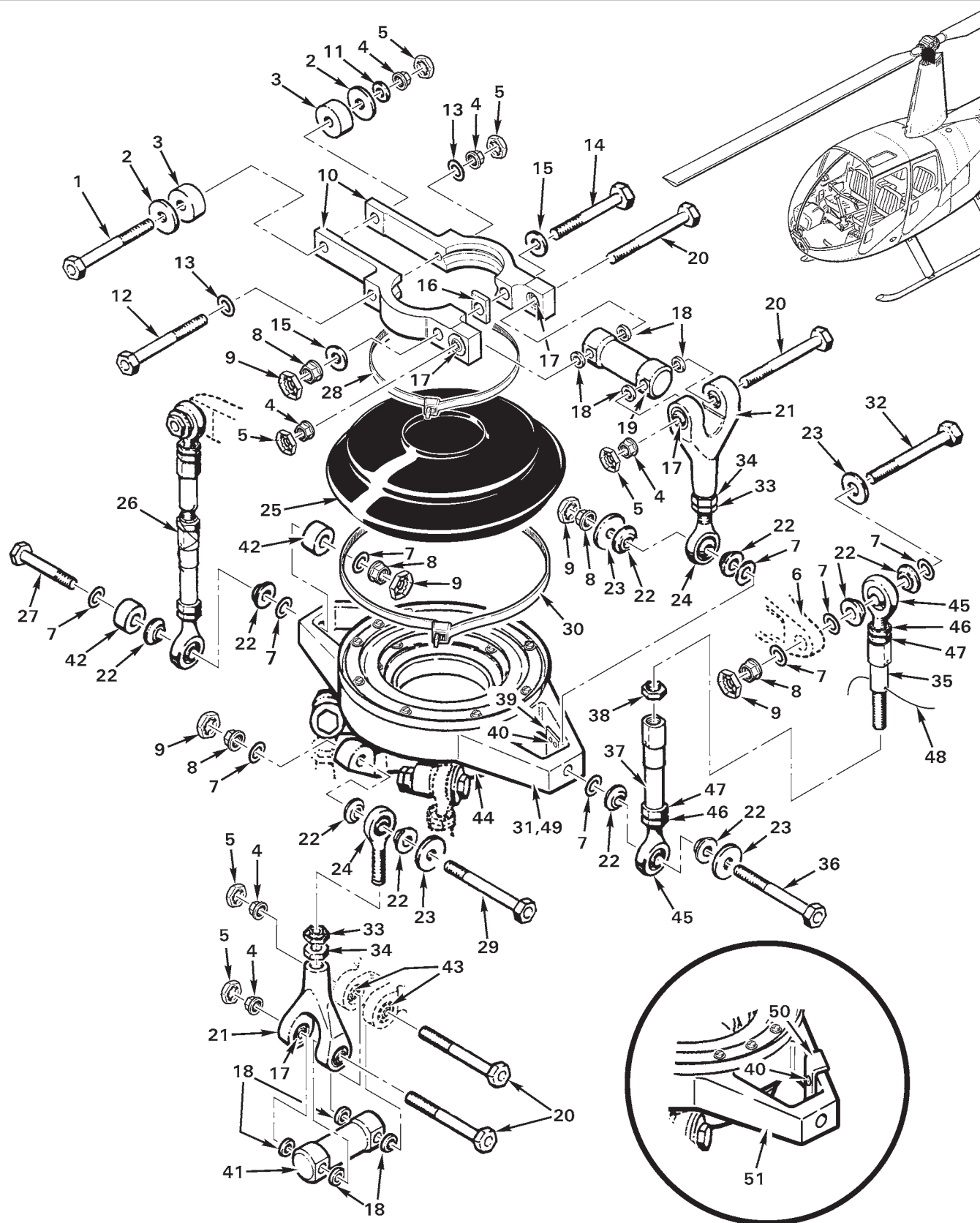


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE INSTALLATION*		
67-65-1	NAS6604-24	Bolt (Determine proper bolt length per R44 Maintenance Manual, § 1.310)	X	1
2	AN970-4	Washer (A/R for balance)	X	A/R
3	A255-1 or A255-2	Counter Weight (1.10 in. O.D.) Counter Weight (1.90 in. O.D.)	X X	A/R A/R
4	C203-5	Yoke Assembly (incl item 13)	X	2
5	NAS1149F0432P	Washer (or NAS1149F0463P as required for correct nut engagement)	X	A/R
6	D210-4	Nut	X	2
7	B330-13	Palnut	X	2
8	NAS6604-24	Bolt	X	1
9	NAS1149F0432P	Washer	X	2
10	B330-16	Palnut	X	13
11	D210-5	Nut	X	13
12	NAS1149F0563P	Washer	X	4
13	A210-1	Key	X	1
14	C648-2	Bearing – Journal	X	1
15	NAS6605-28	Bolt	X	2
16	C141-19	Washer	X	8
17	C117-67 C117-68 C117-69	Shim (thickness = 0.016 in.) Shim (thickness = 0.020 in.) Shim (thickness = 0.025 in.)	X X X	A/R A/R A/R
18	C105-6	Journal	X	8
19	C204-3	Arm – Upper (2.87 inches long)	X	1
20	NAS6605-31	Bolt	X	5
21	A205-7	Fork Assembly (includes item 14 [2], install using item 51) . .	X	2
22	MS3367-7-9	Ty-Rap	X	1
23	C480-1	Boot	X	1
24	MS3367-6-0	Ty-Rap	X	1
25	NAS6605-18	Bolt	X	2
26	C141-1	Washer	X	6
27	NAS1149F0532P	Washer	X	9
28	C115-1	Spacer	X	18
29	C016	Blade Assembly – Main Rotor (Ref)		
30	AN316-6R	Nut	X	2
NOTES * No longer available. Superseded by C017-6 Swashplate Assembly, see Figure 67-61.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
SWASHPLATE INSTALLATION (Cont'd)				
67-65-31	B330-19	Palnut	X	2
32	D173-2	Rod End	X	2
33	C258-1	Pitch Link Assembly (Incl items 34, 45 thru 47, 49, and 50)	X	2
34	MS20995C32	0.032 in. dia. Safety Wire	X	A/R
35	A255-3	Counter Weight	X	2
36	MS20995C20	0.020 in. dia. Safety Wire	X	A/R
37	AN503-8-4	Screw	X	2
38	B769-1	Bracket	X	1
39	C204-2	Arm – Lower (2.00 inches long)	X	1
40	C199-1	Swashplate Assembly – Upper	O	1
41	C769-2	Interrupter	X	1
42	MS20470AD3	Rivet	X	2
43	NAS6605-20	Bolt	X	4
44	C198-1	Swashplate Assembly – Lower	O	1
45	D173-3	Rod End	X	1
46	B330-19	Palnut	X	1
47	AN316-6R	Nut	X	1
48	C258-2	Fitting	X	1
49	21FKF-813	Nut	X	1
50	C258-4	Link Assembly (includes C258-3 link and items 45 thru 47) . .	X	1
51	B270-13	Sealant (to fill cavity in item 21)	X	A/R
52	C648-2	Bearing (Ref)		
53	C017-4*	Swashplate Assembly (Ref, includes item 54)		
54	C647-12	Bearing Set (life-limited component, see MM § 3.100; not shown)	O	1
NOTES * No longer available.				

Intentionally Blank



CO17-2 SWASHPLATE ASSEMBLY
(ELIGIBLE SHIP S/N 0001 THRU
9999 ONLY)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE INSTALLATION*		
67-69-1	NAS6604-24	Bolt (Determine proper bolt length per R44 Maintenance Manual, Section 1.310)	X	1
2	AN970-4	Washer (A/R for balance)	X	A/R
3	A255-1 or	Counter Weight (1.10 in. O.D.)	X	A/R
	A255-2	Counter Weight (1.90 in. O.D.)	X	A/R
4	D210-4	Nut	X	6
5	B330-13	Palnut	X	6
6	C016	Blade Assembly – Main Rotor (Ref)		
7	NAS1149F0532P	Washer	X	17
8	D210-5	Nut	X	9
9	B330-16	Palnut	X	9
10	C203-2	Yoke Assembly (Incl item 17)	X	2
11	NAS1149F0463P	Washer (or NAS1149F0432P as required for correct engagement)	X	A/R
12	NAS6604-24	Bolt	X	1
13	NAS1149F0432P	Washer	X	2
14	NAS6605-28	Bolt	X	1
15	NAS1149F0563P	Washer	X	2
16	A210-1	Key	X	1
17	B115-1	Bearing	X	1
18	A130-47	Spacer	X	8
19	C204-1	Arm (upper, 2.850 inches long)	X	1
20	NAS1304-28	Bolt (do not substitute with NAS6604-28)	X	4
21	A205-5	Fork Assembly (Incl item 17, [2 each])	X	2
22	C115-1	Spacer	X	18
23	C141-1	Washer	X	8
24	D173-2	Rod End	X	2
25	C480-1	Boot	X	1
26	C258-1	Pitch Link Assembly (Incl items 37, 38, and 45 thru 47)	X	2
27	NAS6605-32	Bolt	X	1
28	MS3367-7-9	Ty-Rap	X	1
29	NAS6605-19	Bolt	X	4
NOTES	* Ship S/N 0001 thru 9999. No longer available. Superseded by C017-6 Swashplate Assembly, see Figure 67-61.			
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE INSTALLATION* (Cont'd)		
67-69-30	MS3367-6-0	Ty-Rap	X	1
31	C017-2	Swashplate Assembly (Ref)		
32	NAS6605-17	Bolt	X	2
33	B330-19	Palnut	X	2
34	AN316-6R	Nut	X	2
35	C258-2	Fitting	X	2
36	NAS6605-28	Bolt	X	1
37	C258-4	Link Assembly (Includes C258-3 link and items 45 thru 47) . .	X	1
38	21FKF-813	Nut	X	1
39	C769-2	Interrupter	X	1
40	MS20470AD3	Rivet	X	2
41	A204-1	Arm (lower, 2.350 inches long)	X	1
42	A255-3	Counter Weight (0.70 in. O.D.)	X	2
43	B115-1	Bearing (Ref)		
44	C198-1	Swashplate Assembly – Lower (Ref)		
45	D173-3	Rod End	X	1
46	B330-19	Palnut	X	1
47	AN316-6R	Nut	X	1
48	MS20995C32	0.032 in. dia. Safety Wire	X	A/R
49	C199-1	Swashplate – Upper (Ref, Revision "G")		
50	C769-1	Interrupter (use only with item 51)	X	1
51	C199-1	Swashplate – Upper (Ref, Revision "F" and Prior)		
NOTES * Ship S/N 0001 thru 9999. No longer available. Superseded by C017-6 Swashplate Assembly, see Figure 67-61.				

Intentionally Blank

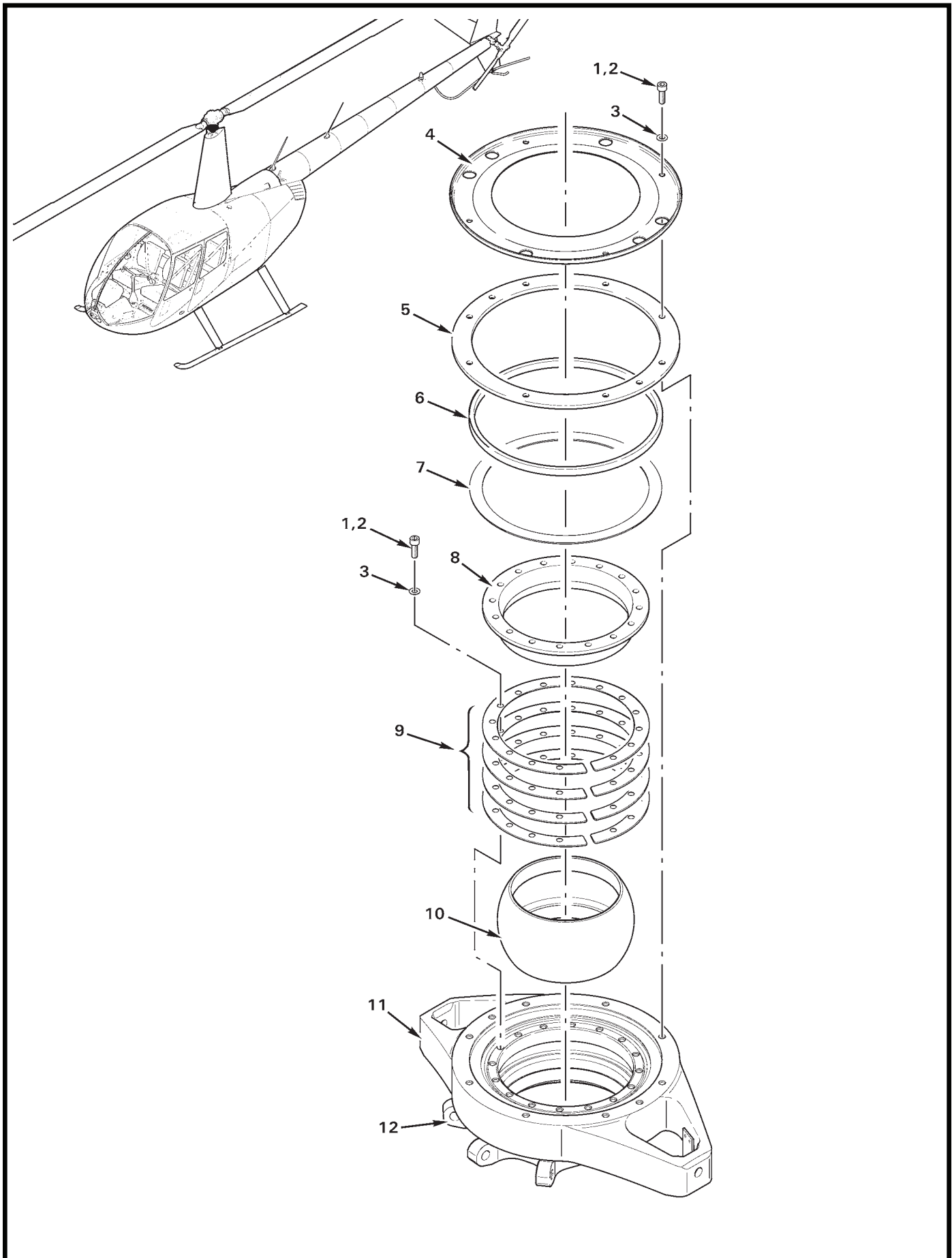
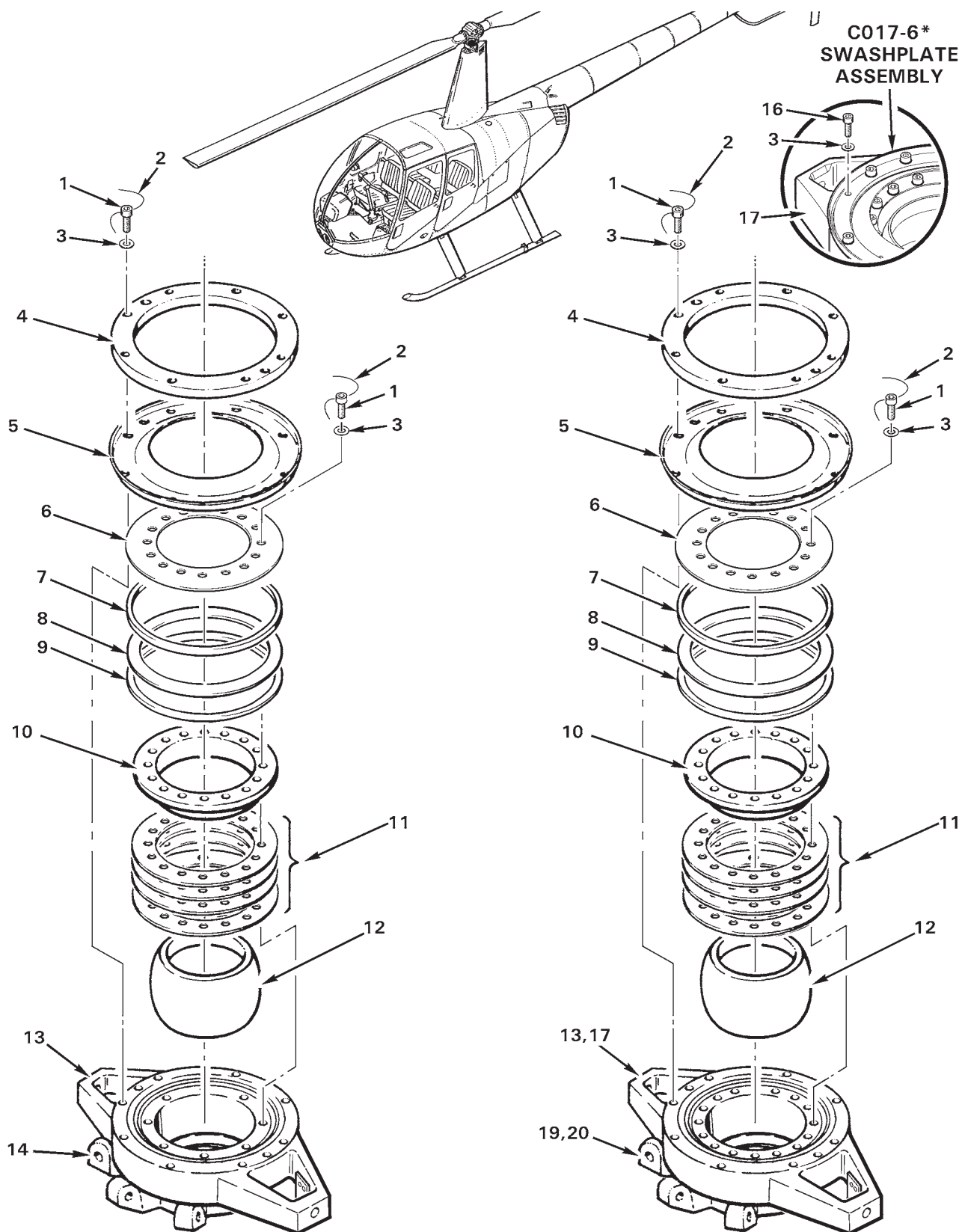


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE BALL INSTALLATION*		
67-73-1	NAS1352N08-8	Screw (install using item 2)	X	26
2	A257-9	Anti-Seize	X	A/R
3	NAS620-8L	Washer	X	26
4	C206-2	Retainer	X	1
5	C200-3	Retainer	X	1
6	C219-3	Spacer	X	1
7	C217-1	Seal	X	1
8	C205-1	Sleeve Assembly	X	1
9	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
10	C201-1	Ball Assembly	X	1
11	C199-2	Swashplate Assembly - Upper (Ref)		
12	F198-1	Swashplate Assembly - Lower (Ref)		
NOTES * C017-6 revision "AD" and higher.				



C017-2 SWASHPLATE ASSEMBLY
(SHIP S/N 0001 THRU 9999)

C017-4 or -6* SWASHPLATE ASSEMBLY

*C017-6, revision "AA" thru "AC".

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SWASHPLATE BALL INSTALLATION		
67-75-1	NAS1352N08H8	Screw ([26] used with item 18)	X	18
2	MS20995C20	0.020 in. dia. Safety Wire (use with item 1)	X	A/R
3	NAS620-8L	Washer	X	A/R
4	C200-1	Retainer	X	1
5	C206-1	Retainer	X	1
6	C218-1	Shield	X	1
7	C219-2	Spacer	X	1
8	C218-2	Shield	X	1
9	C219-1	Spacer	X	1
10	C205-1 *	Sleeve Assembly	X	1
11	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
12	C201-1	Ball Assembly	X	1
13	C199-1	Swashplate - Upper (Ref)		
14	C198-1	Swashplate - Lower (Ref)		
15	C017-2	Swashplate Sub-Assembly (Ref, no longer available; ship S/N 0001 thru 9999. Includes items 13 and 14. See also Figure 67-61.)		
16	NAS1352N08-8	Screw (use only with items 17 and 20; item 2 not required). . .	X	26
17	C199-2	Swashplate - Upper (Ref)		
18	C017-4	Swashplate Sub-Assembly (Ref; ship S/N 10001 and higher. Includes items 13 and 19. See also Figure 67-61.)		
	C017-6 **	Swashplate Sub-Assembly (Ref; ship S/N 10001 and higher. Includes items 17 and 20. See also Figure 67-61.)		
19	C198-2	Swashplate - Lower (Ref, serialized, installed in C017-4 swashplate assembly.)		
20	F198-1	Swashplate - Lower (Ref, <u>not</u> serialized, installed in C017-6 swashplate assembly.)		
21	A257-9	Anti-Seize	X	A/R
NOTES * Revision "B" or later required with item 16. ** C017-6, revision "AA thru "AC".				

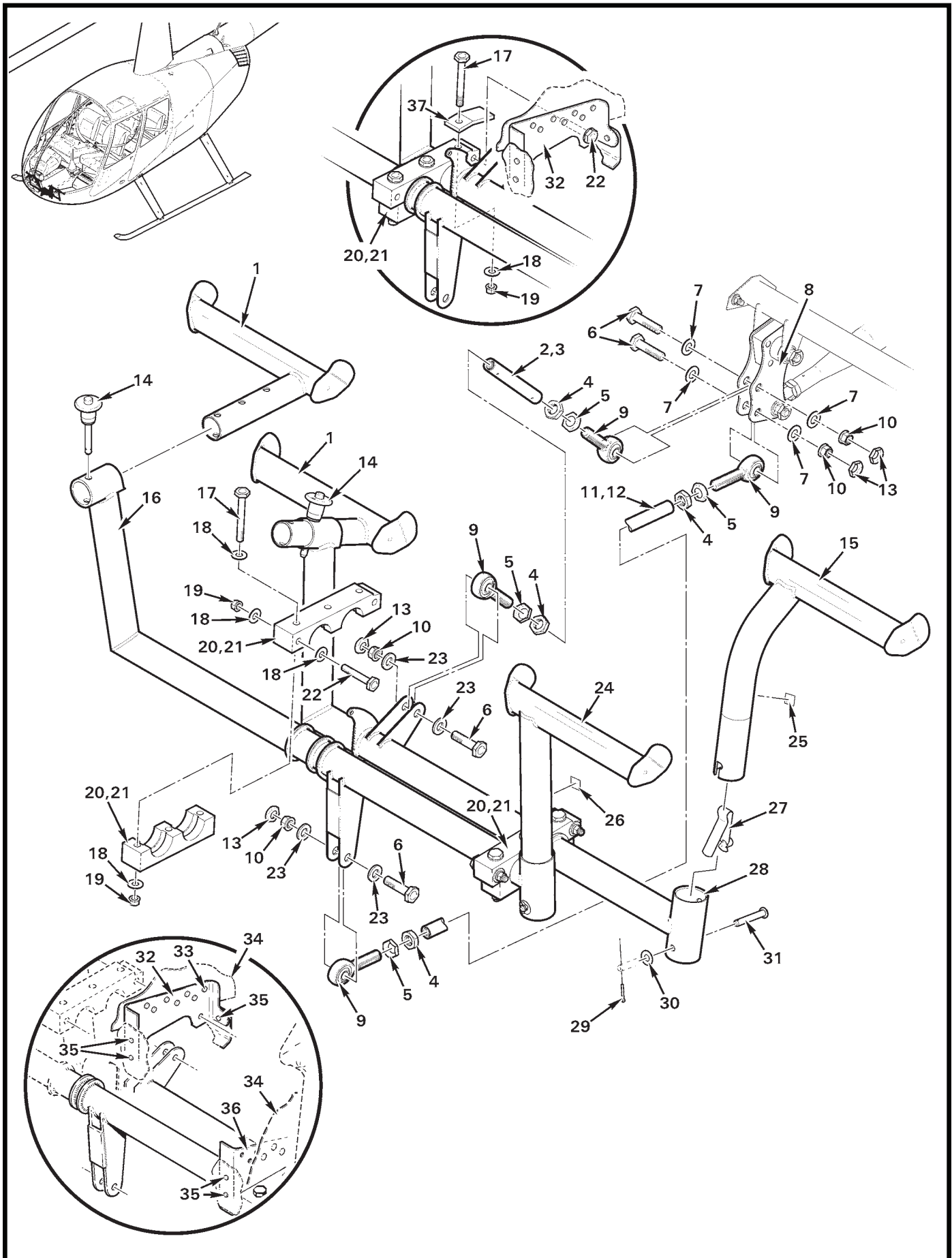


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – PEDALS INSTALLATION*		
67-77-1	F755-1	Pedal – Left/Right Foot, Pilot	X	2
2	C343-9	Tube Assembly (Incl items 3 thru 5, and 9)	X	1
3	C343-10	Tube (Ref)	O	1
4	AN316-5R	Nut	X	2
5	B330-16	Palnut	X	2
6	NAS6604-9	Bolt	X	4
7	NAS1149FN432P	Washer	X	4
8	C317-5	Bellcrank Assembly (Ref; see Figure 67-85)	X	1
9	A101-4	Rod End	X	4
10	D210-4	Nut	X	4
11	C343-11	Tube Assembly (Incl items 4, 5, 9 and 12)	X	1
12	C343-12	Tube (Ref)	O	1
13	B330-13	Palnut	X	4
14	B232-1	Pin (Locking; button handle)	X	2
15	F755-2	Pedal Assembly – Left Foot Co-Pilot (Incl item 27)	X	1
16	D755-2	Pedal Assembly – Right Foot (Incl items 24, and 29 thru 31)	X	1
17	NAS6603-20	Bolt	X	6
18	NAS1149F0332P	Washer	X	20
19	MS21042L3	Nut	X	10
20	A318-1-2	Bearing Block Set	X	2
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 – Right Foot Co-Pilot (Incl item 27)	X	1
25	A654-50	Decal – “L” (for earlier R44s)	X	1
26	A654-51	Decal – “R” (for earlier R44s)	X	1
27	A795-4	Pin	X	1
28	D755-1	Pedal Assembly – Left Feet (Incl items 15, and 29 thru 31) . .	X	1
29	MS24665-132	Cotter Pin	X	2
30	NAS1149D0316J	Washer (or AN960PD10L)	X	2
31	MS20392-2C33	Flathead Pin	X	2

NOTES * Ship S/N 0761 and subsequent.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – PEDALS INSTALLATION* (Cont'd)		
67-77-32	A359-2	Support – RH	X	1
33	MS20470AD4	Rivet	X	18
34	C033	Lower Console Assembly (Ref)		
35	MS20470AD3	Rivet	X	6
36	A359-1	Support – LH	X	1
37	B831-1**	Tab	X	1
NOTES * Ship S/N 0761 and subsequent. ** Earlier R44s. Refer to R44 Service Bulletin SB-63.				

Intentionally Blank

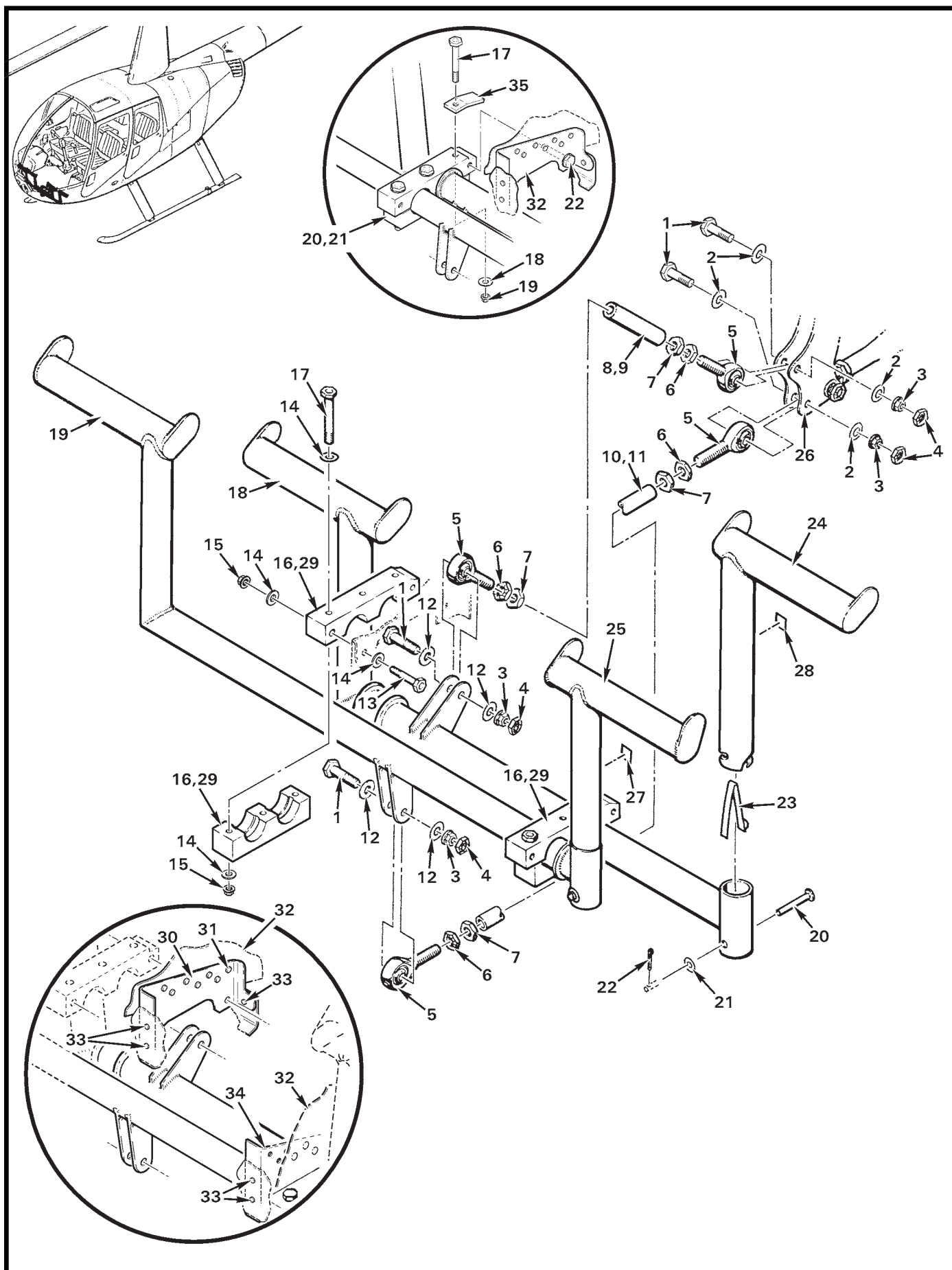


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – PEDALS INSTALLATION*		
67-81-1	NAS6604-9	Bolt	X	4
2	NAS1149F0432P	Washer	X	4
3	D210-4	Nut	X	4
4	B330-13	Palnut	X	4
5	A101-4	Rod End	X	4
6	B330-16	Palnut	X	4
7	AN316-5R	Nut	X	4
8	C343-4	Tube (Ref)	O	1
9	C343-3	Push-Pull Tube Assembly (Incl items 5 thru 8)	X	1
10	C343-6	Tube	O	1
11	C343-5	Push-Pull Tube Assembly (Incl items 5 thru 7, and 10)	X	1
12	NAS1149F0463P	Washer	X	4
13	NAS6603-13	Bolt	X	4
14	NAS1149F0332P	Washer	X	20
15	MS21042L3	Nut	X	10
16	A318-1-2	Bearing Block Set	X	2
17	NAS6603-20	Bolt	X	6
18	A755-5	Pedal Assembly – Left Foot (Incl items 21 thru 23)	X	1
19	A755-6	Pedal Assembly – Right Foot (Incl items 21 thru 23)	X	1
20	MS20392-2C33	Flat-Head Pin	X	2
21	NAS1149D0316J	Washer (or AN960PD10L)	X	2
22	MS24665-132	Cotter Pin	X	2
23	A795-4	Pin Assembly	X	2
24	A755-3	Pedal Assembly – Co-Pilot, Left Foot (Incl item 23)	X	1
25	A755-4	Pedal Assembly – Co-Pilot, Right Foot (Incl item 23)	X	1
26	C317-2	Bellcrank Assembly (Ref; see Figure 67-85)	X	1
27	A654-51	Decal – “R” (for earlier R44s)	X	1
28	A654-50	Decal – “L” (for earlier R44s)	X	1
29	A257-1	Grease (for bearing block grooves)	X	A/R
30	A359-2	Support – RH	X	1
31	MS20470AD4	Rivet	X	18
NOTES * Ship S/N 0760 and prior.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – PEDALS INSTALLATION* (Cont'd)		
67-81-32	C033	Lower Console Assembly (Ref)		
33	MS20470AD3	Rivet	X	6
34	A359-1	Support – LH	X	1
35	B831-1**	Tab	X	1
NOTES * Ship S/N 0760 and prior. ** Earlier R44s. Refer to R44 Service Bulletin SB-63.				

Intentionally Blank

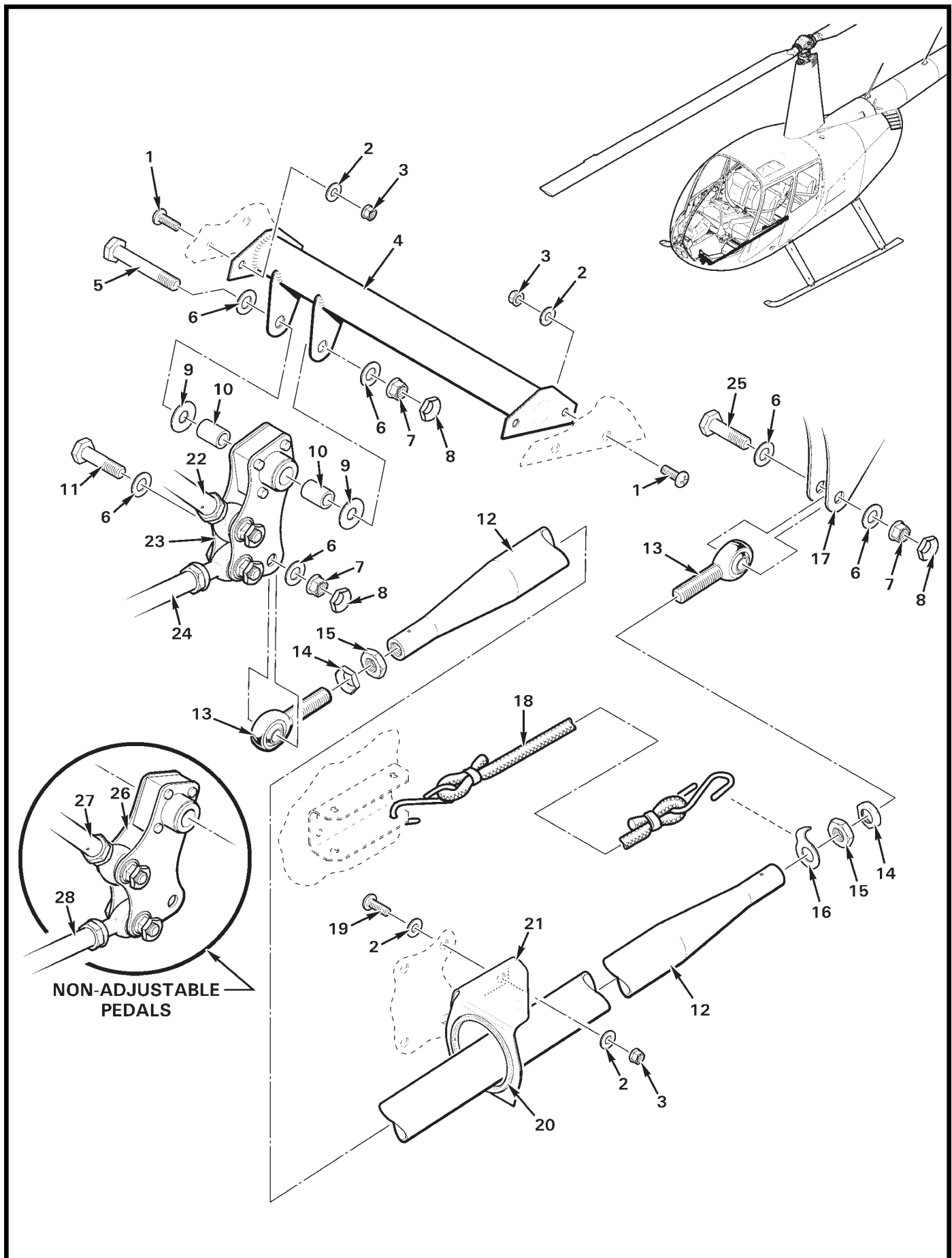


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – C317 BELLCRANK		
67-85-1	MS27039C0807	Screw	X	4
2	NAS1149FN832P	Washer	X	12
3	MS21042L08	Nut	X	8
4	C349-1	Support Assembly	X	1
5	NAS6604-19	Bolt	X	1
6	NAS1149F0432P	Washer	X	6
7	D210-4	Nut	X	3
8	B330-13	Palnut	X	3
9	A141-3	Washer	X	2
10	A105-3	Journal	X	2
11	NAS6604-9	Bolt	X	1
12	C121-9	Push-Pull Tube Assembly (Incl items 13 thru 16)	X	1
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	C317-1	Bellcrank Assembly (Ref)		
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	NAS557-22A	Grommet	X	1
21	C346-1	Restraint	X	1
22	C343-9	Push-Pull Tube Assembly (Ref, see Figure 67-81)		
23	C317-5	Bellcrank Assembly (Ship S/N 0761 and higher. Use only with items 22 and 24.)	X	1
24	C343-11	Push-Pull Tube Assembly (Ref, see Figure 67-81)		
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – C317 BELLCRANK (Cont'd)		
67-85-25	NAS6604-8	Bolt	X	1
26	C317-2	Bellcrank Assembly (Ship S/N 0001 thru 0760. Use only with items 27 and 28.)	X	1
27	C343-3	Push-Pull Tube Assembly (Ref, see Figure 67-81)		
28	C343-5	Push-Pull Tube Assembly (Ref, see Figure 67-81)		
NOTES				

Intentionally Blank

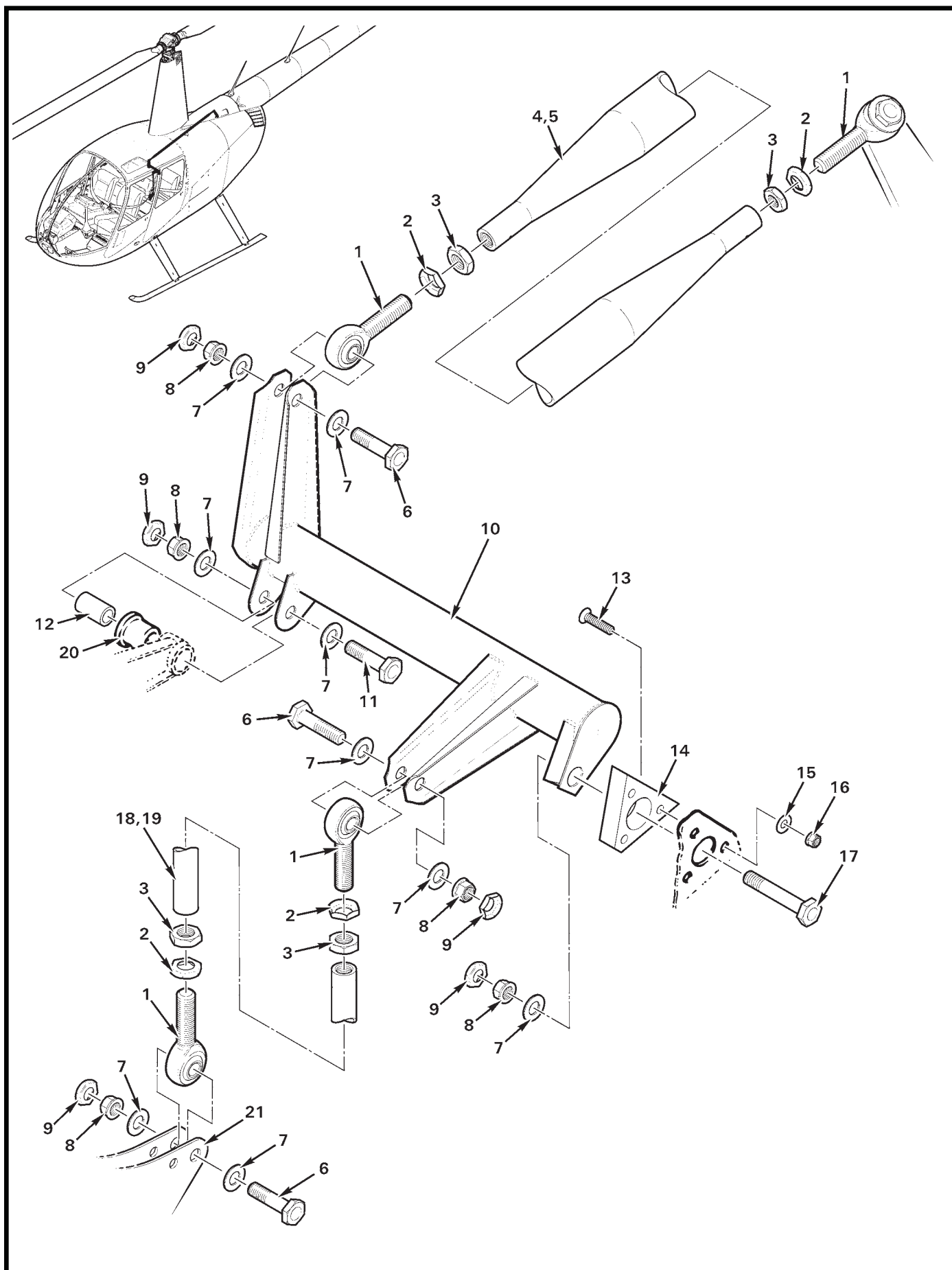


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
TAIL ROTOR CONTROLS – C316 BELLCRANK				
67-89-1	A101-4	Rod End	X	4
2	B330-16	Palnut	X	4
3	AN316-5R	Nut	X	4
4	—	Tube (Ref)		
5	C121-15	Push-Pull Tube Assembly (Incl items 1 thru 4)	X	1
6	NAS6604-8	Bolt	X	3
7	NAS1149F0432P	Washer	X	9
8	D210-4	Nut	X	5
9	B330-13	Palnut	X	5
10	C316-1	Bellcrank Assembly	X	1
11	NAS6604-11	Bolt	X	1
12	A105-6	Journal	X	1
13	MS24694-S8	Screw	X	3
14	C329-1	Bearing Assembly	X	1
15	NAS1149FN816P	Washer	X	3
16	MS21042L08	Nut	X	3
17	NAS1304-17	Bolt	X	1
18	C343-2	Tube	O	1
19	C343-1	Push-Pull Tube Assembly (Incl items 1 thru 3, and 18)	X	1
20	A139-1	Bearing	X	1
21	C317-1	Bellcrank Assembly (Ref)		
NOTES				

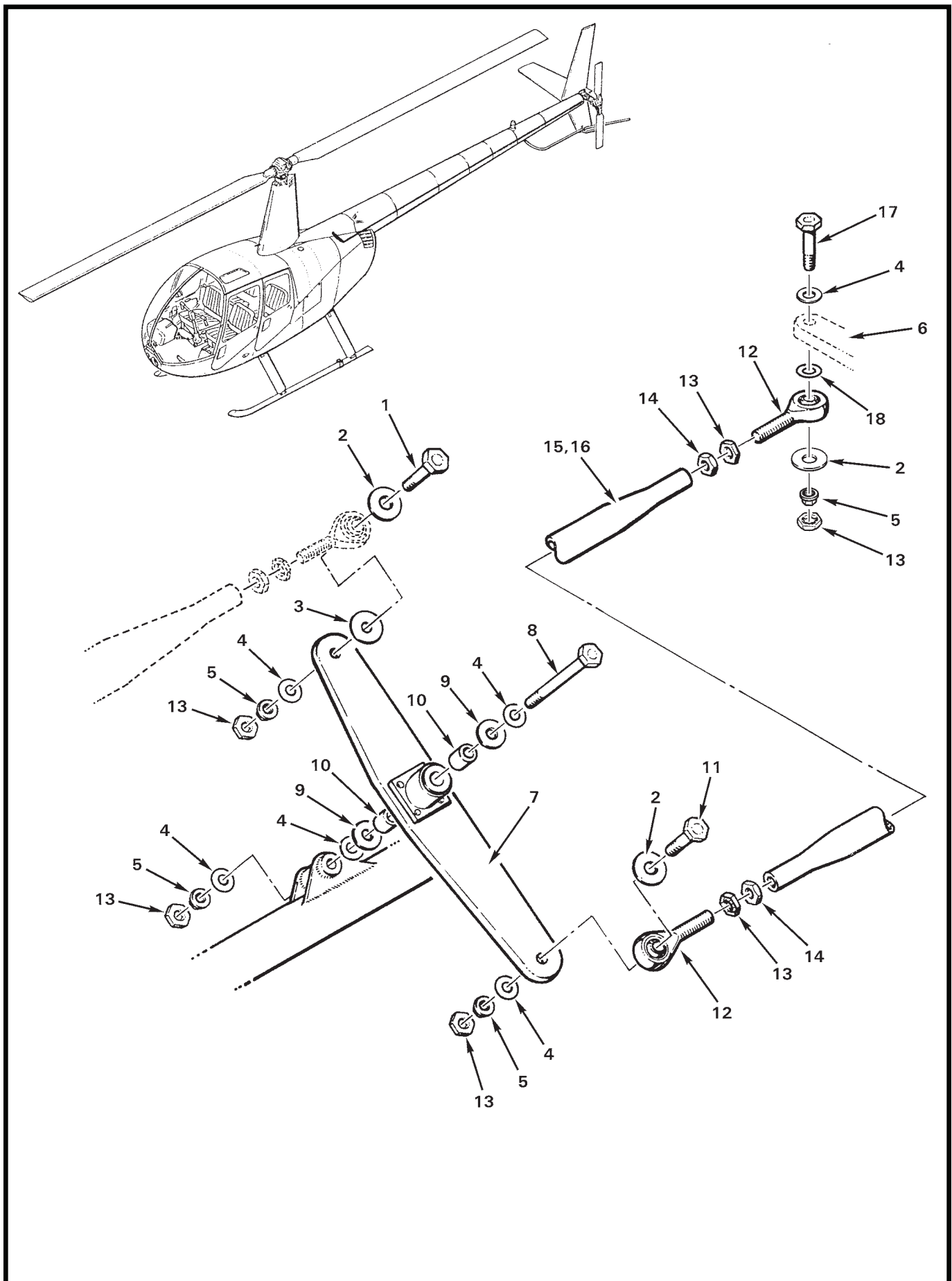


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR CONTROLS – C331 BELLCRANK		
67-91-1	NAS6604-11	Bolt	X	1
2	A214-3	Washer	X	3
3	MS20002-4	Washer	X	1
4	NAS1149F0432P	Washer	X	6
5	D210-4	Nut	X	4
6	A120-3	Bellcrank (Ref)		
7	A331-4	Bellcrank Assembly	X	1
8	NAS1304-35	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	—	Tube (Ref)		
16	C121-17	Push-Pull Tube Assembly (Incl items 12 thru 15)	X	1
17	NAS6604-10	Bolt (or NAS6604-11)	X	1
18	NAS1149F0432P	Washer (or NAS1149F0463P as required for minimum 0.050 inch clearance between push-pull tube and aft tailcone bulkhead casting)	X	A/R
NOTES				

Intentionally Blank