

R44 (Raven I & Clipper I) 2200-Hour Inspection Kit Instructions

The parts and components included in this kit are for the 2200-Hour Inspection of a basic R44 helicopter with hydraulic flight controls. Owners of R44 helicopters with optional or additional equipment may require additional parts for their aircraft. Refer to R44 Maintenance Manual § 3.300 Airworthiness Limitations.

NOTE

Visit <https://robinsonheli.com/> to verify kit instructions are current revision. Review instructions before installation; contact RHC Technical Support with questions. Verify kit contents match list; contact RHC Customer Service if parts are missing or damaged.

NOTE

Refer to R44 Maintenance Manual (MM) and R44 Illustrated Parts Catalog (IPC) for installation data.

NOTE

A core deposit is required for overhaul exchange components. Overhaul exchange components are indicated by letter "R" at end of part number.

ITEM	PART NUMBER	KIT CONTENTS	QTY
1	KI-4402Instr.	Kit Instructions	1
2	A120-3	Bellcrank	1
3	A130-21	Spacer	3
4	A130-48	Spacer	1
5	A190-3	V-Belt Set	1
6	A462-4	Fitting (mixture control cable)	1
7	A522-7	Control Cable – Mixture	1
8	A785-6	Hose – Air (gearbox baffle)	1
9	A785-10	Hose – Air (carb heat)	1
10	A785-11	Hose – Air (carburetor air intake)	1
11	A785-12	Hose – Air (heater installation)	1
12	A785-13	Hose – Air (heater installation)	1
13	A785-16	Hose – Air (gearbox cooling)	1
14	A785-17	Hose – Air (use with A785-6)	1
15	A785-28	Hose – Air (hydraulic reservoir)	1
16	A918-5	Elastic Cord	1
17	A918-20	Elastic Cord (replaces obsoleted C918-15).	1
18	A947-2	Plate Assembly	1
19	B277-024	Clamp (replaces A694-1)	1
20	B277-036	Clamp	1
21	B283-1	Hose Assembly (fuel system)	1
22	B283-3	Hose Assembly (fuel system)	1
23	B345-4	Pitch Link	2

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
24	B350-3	Spring Pin	1
25	C005-4	Main Rotor Hub Assembly	1
26	C005-12.CS***	Main Rotor Blade & Spindle Assembly (set)	1
27	C006-8R	Main Rotor Gearbox Assembly	1
28	C007-5	Fan Shaft Assembly	1
29	C008-9	Tail Rotor Assembly	1
30	C017-6R	Swashplate Assembly	1
31	C018-4R	Clutch Assembly (anodized sheave; this part will be provided unless alternate part [below] is selected)	1
	C018-5R	Clutch Assembly (metalized sheave)	0
32	C020-1	Upper Frame Assembly (standard; this part will be provided unless alternate part [below] is selected)	1
	C020-2	Upper Frame Assembly (with tie-downs)	0
33	C021-1R	Tail Rotor Gearbox Assembly	1
34	C031-1	Tail Rotor Pitch Control Assembly	1
35	C051-1R	Clutch Actuator Assembly – 14V (This part will be provided unless alternate part [below] is selected.)	1
	C051-2R	Clutch Actuator Assembly – 28V	0
36	C119-2	Bumper	1
37	C121-17	Push-Pull Tube	1
38	C141-26**	Washer	2
39	C152-1	Thrust Washer	6
40	C169-35	Muffler Assembly	1
41	C182-1	Fan Nut	1
42	C189-14	Nut	3
43	C522-7	Control Cable – Carb Heat	1
44	C568-1	Scoop Assembly – Carb Heat	1
45	C615-1	Gasket (airbox-to-carburetor)	1
46	C749-1	Nozzle Assembly (gearbox cooling)	1
47	C792-5*	Dual Tachometer.	1
48	C947-1	Plate Assembly	1
49	C947-3	Plate Assembly	1
50	D079-1	Tail Rotor Guard Assembly	1
51	D082-1	Tube Assembly	1
52	D174-2R	Fanwheel Assembly	1
53	D211-1R	Hydraulic Reservoir – 14V (This part will be provided unless alternate part [below] is selected.)	1
	D211-2R	Hydraulic Reservoir – 28V	0
54	D212-1R	Hydraulic Servo	3
55	D224-2	Tail Rotor Drive Shaft Assembly	1
56	D333-3	Fitting (carb heat control cable)	1

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
57	D500-1R	Hydraulic Pump	1
58	D918-1	Elastic Cord	1
59	D918-2	Elastic Cord	1
60	KI-274-2A****	Governor Controller Upgrade Kit (This kit will be provided unless alternate part [below] is selected)	1
	D270-1.CS	Governor Controller (Firmware & optional EMU configuration setup)	0
61	KI-4407-3A	R44-series (Fwd) Standard Connector/Buckle Installation Kit (This kit will be provided unless alternate kit [below] is selected.)	1
	KI-5501-1	R44-series Five-Point Harness Installation Kit	0
62	KI-4407-3B	R44-series (Aft) Standard Connector/Buckle Installation Kit	1
63	KI-6604	R44-series & R66 C017-5 Swashplate Installation Parts Kit	1
64	R5352	Main Rotor Blade Crate	1
65	R5384	Main Rotor Gearbox Crate	1
66	R8211	Core Deposits	1
67	21FKF-518	Nut	12
68	66224	Gasket (Lycoming part number)	1
69	77611	Gasket (Lycoming part number)	6
70	STD-1410	Nut (Lycoming part number)	4
71	STD-35	Washer (Lycoming part number)	4
72	AN3-41A	Bolt	2
73	AN3-44A	Bolt	2
74	AN735-4	Clamp	2
75	AN742-3	Clamp	5
76	AN742-4	Clamp	7
77	MS16562-4	Spring Pin	1
78	MS20002-24	Washer	1
79	MS21919WDG4	Clamp	1
80	MS21919WDG6	Clamp	1
81	MS24665-229+	Cotter Pin (Note: "+" in contents part number indicates 5-qty pack)	1
82	MS24665-441+	Cotter Pin (Note: "+" in contents part number indicates 5-qty pack)	1
83	NAS1149F2432P	Washer	3
84	NAS1304-35	Bolt	1
85	NAS634-105	Bolt	3
86	NAS6604-4	Bolt	4

* Requires B792-2 harness assembly when replacing C792-4 dual tachometer (ref. R44 Service Letter SL-74C); harness assembly is currently provided with C792-5 dual tachometer at no charge.

** Replaces NAS1149E0363R at A522-7 mixture control cable installation (ref. R44 IPC Figure 76-9).

*** ".CS" suffix indicates Blade & Spindle set was static balanced at the factory.

**** Upgrades D278-1 Governor Controller to the new D270-1.CS Governor Controller/Engine Monitoring Unit.