

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

The parts and components included in this kit are for the 2200-Hour Inspection of a basic R44 II helicopter. Owners of R44 II 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-4403Instr.	Kit Instructions	1
2	A120-3	Bellcrank	1
3	A130-48	Spacer	1
4	A190-3	V-Belt Set	1
5	A336-6	Push/Pull Tube – Throttle (6.25 inches; this part will be provided unless alternate part [below] is selected)	1
	A336-9	Push/Pull Tube – Throttle (5.90 inches)	0
6	A341-1	Spacer	2
7	A462-4	Fitting (mixture control cable)	1
8	A522-13	Control Cable – Mixture	1
9	A595-1	Seal	2
10	A595-2	Seal	2
11	A785-6	Hose – Air (gearbox baffle)	1
12	A785-12	Hose – Air (heater installation)	1
13	A785-13	Hose – Air (heater installation)	1
14	A785-16	Hose – Air (gearbox cooling)	1
15	A785-17	Hose – Air (use with A785-6)	1
16	A785-28	Hose – Air (hydraulic reservoir)	1
17	A918-5	Elastic Cord	1
18	A918-20	Elastic Cord (replaces obsoleted C918-15).	1
19	A947-2	Plate Assembly	1
20	B283-1	Hose Assembly (fuel system)	1

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
21	B283-3	Hose Assembly (fuel system)	1
22	B283-10	Hose Assembly (fuel system)	1
23	B283-11	Hose Assembly (fuel system)	1
24	B345-4	Pitch Link	2
25	B350-3	Spring Pin	1
26	C005-4	Main Rotor Hub Assembly	1
27	C005-12.CS****	Main Rotor Blade & Spindle Assembly (set)	1
28	C006-8R	Main Rotor Gearbox Assembly	1
29	C007-5	Fan Shaft Assembly	1
30	C008-9	Tail Rotor Assembly	1
31	C017-6R	Swashplate Assembly	1
32	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
33	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
34	C021-1R	Tail Rotor Gearbox Assembly	1
35	C031-1	Tail Rotor Pitch Control Assembly	1
36	C051-2R	Clutch Actuator Assembly – 28V	1
37	C119-2	Bumper	1
38	C121-17	Push-Pull Tube	1
39	C141-26***	Washer	2
40	C152-1	Thrust Washer	6
41	C169-37	Muffler Assembly	1
42	C182-1	Fan Nut	1
43	C189-14	Nut	3
44	C749-1	Nozzle Assembly (gearbox cooling)	1
45	C792-5**	Dual Tachometer	1
46	C947-1	Plate Assembly	1
47	C947-3	Plate Assembly	1
48	D079-1	Tail Rotor Guard Assembly	1
49	D082-1	Tube Assembly	1
50	D174-2R	Fanwheel Assembly	1
51	D211-2R	Hydraulic Reservoir (28V)	1
52	D212-1R	Hydraulic Servo	3
53	D224-2	Tail Rotor Drive Shaft Assembly	1
54	D500-1R	Hydraulic Pump	1
55	D543-2	Spacer	2
56	D730-8	Brace (replaces D730-7, if installed)	1
57	D743-3*	Pump Assembly	1

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
58	D918-1	Elastic Cord	1
59	D918-2	Elastic Cord	1
60	KI-274-2B*****	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
62	KI-5501-1	R44-series Five-Point Harness Installation Kit	0
	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	R8212	Core Deposits	1
67	21FKF-518	Nut	12
68	77611	Gasket (Lycoming part number)	6
69	STD-1410	Nut (Lycoming part number)	4
70	STD-35	Washer (Lycoming part number)	4
71	AN3-41A	Bolt	2
72	AN3-44A	Bolt	2
73	AN742-3	Clamp	2
74	AN742-4	Clamp	5
75	MS20002-24	Washer	1
76	MS24665-441+	Cotter Pin (Note: "+" in contents part number indicates 5-qty pack)	1
77	NAS1149F2432P	Washer	3
78	NAS634-105	Bolt	3
79	NAS1304-35	Bolt	1
80	NAS6603-13	Bolt	1
81	NAS6604-4	Bolt	4
82	NAS6604-22	Bolt	1

* For helicopter S/N 13158 and prior equipped with D743-1, -2, or -4 aux fuel pump, also order KI-206-3 R44 II Provisions for Aux Fuel Pump Assembly Upgrade Installation Kit.

** 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 A522-13 mixture control cable installation (ref. R44 IPC Figure 76-17).

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

***** Upgrades D278-2 Governor Controller to the new D270-1.CS Governor Controller/Engine Monitoring Unit.