

R66 2000-Hour Inspection Kit Instructions

The parts and components included in this kit are for the R66 2000-Hour Inspection of a basic R66 Turbine helicopter. Owners of R66 helicopters with optional or additional equipment may require additional parts for their aircraft. Refer to R66 Maintenance Manual § 4-10 Airworthiness Limitations.

NOTE

Visit www.robinsonheli.com to verify kit instructions are current revision. Verify kit contents match list; contact RHC Customer Service if parts are missing or damaged.

NOTE

Refer to R66 Maintenance Manual (MM) and R66 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-6602Instr.	Kit Instructions	1
2	A120-5	Bellcrank – Aft	1
3	A130-48	Spacer	6
4	A130-50	Spacer	1
5	A215-015	O-Ring (rollover valves)	2
6	A522-10	Control Cable (FCU fuel cutoff)	1
7	A522-11	Control Cable (fuel valve)	1
8	A522-14	Control Cable (heater valve)	1
9	A785-37	Hose (inducer bleed)	1
10	A785-38	Hose (starter-generator)	1
11	A918-8	Elastic Cord Assembly (20 lb; this part will be provided unless alternate part [below] is selected.)	1
	A918-19	Elastic Cord Assembly (23 lb)	0
12	A947-2	Plate Assembly	2
13	B162-2	Clipnut	3
14	B173-5	V-Belt – Compressor Drive (cabin air conditioning)	1
15	B277-12	Clamp	2
16	B277-32	Clamp	2
17	B277-36	Clamp	2
18	B277-48	Clamp	1
19	B330-7	Palnut	5
20	B345-4	Pitch Link – Tail Rotor	2

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
21	C005-4	Main Rotor Hub Assembly	1
22	C005-13R	Main Rotor Blade and Spindle Assembly (set)	1
23	C008-10	Tail Rotor Assembly	1
24	C021-1R	Tail Rotor Gearbox	1
25	C023-XX	Tailcone Assembly (select p/n [below] as required.)	1
	C023-21.CS*	Tailcone Assembly (3-antenna)	0
	C023-24.CS*	Tailcone Assembly (E.N.G.)	0
	C023-34.CS*	Tailcone Assembly (5-antenna)	0
	C023-35.CS*	Tailcone Assembly (5-antenna and NAV antenna)	0
26	C031-1	Tail Rotor Pitch Control	1
27	C044-1.CS*	Horizontal Stabilizer (This part will be provided unless alternate part [below] is selected.)	1
	C044-2.CS*	Horizontal Stabilizer (for installation on Turbine Marine helicopters)	0
28	C119-2	Bumper – Tail Rotor	1
29	C141-26**	Washer	12
30	C152-1	Washer – Thrust	6
31	C189-14	Nut	3
32	C522-10	Control Cable (FCU throttle)	1
33	C522-11	Control Cable (PTG)	1
34	C947-3	Plate Assembly	3
35	D079-1	Tail Rotor Guard	1
36	D082-1	Tube Assembly	1
37	D224-4	Tail Rotor Drive Shaft Assembly	1
38	D333-13	Fitting	1
39	D918-1	Elastic Cord – Longitudinal (cyclic pivot)	1
40	D918-2	Elastic Cord – Lateral (cyclic pivot)	1
41	D918-3	Elastic Cord – (collective)	1
42	D930-2	Spring – Safety (throttle)	1
43	F001-11R	Main Rotor Gearbox Sub-Assembly Includes: [1] C017-6R Main Rotor Swashplate [1] D211-3R Hydraulic Reservoir [2] D212-5R Hydraulic Servo [1] D212-6R Hydraulic Servo [1] D500-2R Hydraulic Pump Assembly [1] D500-3R Main Rotor Gearbox Oil Pump Assembly [1] F006-1R Main Rotor Gearbox Assembly [1] G201-1 Frame – Servo Support	1
44	F018-1R	Clutch Assembly	1
45	F020-1	Upper Frame	1
46	F101-4	Rod End	2
47	F169-1	Exhaust Weldment	1
48	F173-1	Strut (exhaust weldment supports)	3

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
49	F235-13	Strut – Upper Frame	2
50	F252-1	Strut – Upper Frame	1
51	F453-5	Retainer	6
52	F579-1	Bellmouth	1
53	F597-1	Seal – Firewall	1
54	F642-7	Engine Shaft Weldment	1
55	F651-2	Element – MRGB Filter	1
56	F651-3	Seal Kit – MRGB Filter	1
57	F771-1	Filter – Intake	1
58	F771-4	Filter – Starter/Generator	1
59	F771-7	Filter – Engine Vent.	1
60	F792-2	Dual Tachometer (replaces F792-1)	1
61	G732-3	Cap (replaces G732-2 cap & C130-62 spacer)	1
62	G732-4	Bolt (replaces NAS6604-67 bolt, clutch assembly)	1
63	KI-6603-3A	R66-series (Fwd) Standard Connector/Buckle Installation Kit (This kit will be provided unless alternate kit [below] is selected.)	1
	KI-5501-2	R66-series Five-Point Harness Installation Kit	0
64	KI-6603-3B	R66-series (Aft) Standard Connector/Buckle Installation Kit	1
65	R5388	Tailcone Crate	1
66	R6722	Main Rotor Blade Crate	1
67	R7982	Main Rotor Gearbox Crate	1
68	R8481	Core Deposits	1
69	1182N111	O-ring (replaces existing O-ring in N1 speed sensor connector cavity)	1
70	AN742-3	Clamp	40
71	AN742-4	Clamp	11
72	A880-908	Union – Engine Oil Outlet (replaces CV26-77 check valve on helicopter S/N 0222 and prior)	1
73	MS16562-4	Spring Pin	1
74	MS21919WCH4	Clamp	7
75	MS21919WCH8	Clamp	1
76	MS21919WCH12	Clamp	1
77	MS21919WCH38	Clamp	1
78	MS24665-229+	Cotter Pin (Note: “+” in contents part number indicates 5-qty pack)	1
79	MS24665-441+	Cotter Pin (Note: “+” in contents part number indicates 5-qty pack)	1
80	MS28778-4	Packing (engine oil cooler fittings)	2
81	MS28778-8	Packing (engine oil cooler unions)	2
82	MS29512-03	Packing (reducers)	2
83	MS29512-05	Packing (low fuel switch)	1
84	MS29512-06	Packing (fuel strainer)	1
85	MS29512-10	Packing (left rollover valve)	1
86	MS29513-270	Packing (cover assembly)	1
87	NAS1149E0363R	Washer (ignition exciter box; see IPC Figure 71-5)	1

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
88	NAS557-4A	Grommet	3
89	NAS557-4B	Grommet	3
90	NAS557-32A	Grommet – Firewall (engine drive shaft weldment)	1
91	NAS617-8	Packing (union, oil line)	2
92	NAS617-10	Packing (union, oil line)	1
93	NAS617-12	Packing (fitting, breather tube)	1
94	NAS634-105	Bolt	3

- * “.CS” suffix indicates part is painted white. Contact Customer Service for other paint options.
- ** Replaces NAS1149E0363R at A522-10, A522-11, A522-14, C522-10 & C522-11 control cable installations (ref. R66 IPC Figures 21-35, 76-1, 76-5 & 76-7).