

R22 Beta/Beta II or Mariner/Mariner II 2200-Hour Inspection Kit Instructions
(Helicopter S/N 2571 and subsequent equipped with O-360 engine)

The parts and components included in this kit are for the R22 2200-Hour Inspection of a normally-equipped R22-series helicopter. Owners of R22 helicopters with optional or additional equipment may require additional parts for their aircraft. Refer to R22 Maintenance Manual § 3.300 Airworthiness Limitations.

NOTE

Visit <https://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 R22 Maintenance Manual (MM) and R22 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-2203Instr.	Kit Instructions	1
2	A005-14.CS*	Main Rotor Blade & Spindle Assembly (set; requires A005-12 hub assembly)	1
3	A006-6R	Main Rotor Gearbox Assembly	1
4	A007-6	Fan Shaft Assembly	1
5	A008-4	Tail Rotor Assembly	1
6	A017-2R	Swashplate Assembly	1
7	A018-1R	Clutch Assembly – Anodized (This part will be provided unless alternate part [below] is selected.)	1
	A018-2R	Clutch Assembly – Metalized	0
8	A031-1	Tail Rotor Pitch Control	1
9	A051-1R	Clutch Actuator Assembly (This part will be provided unless alternate part [below] is selected.)	1
	A051-3R	Clutch Actuator Assembly (without A051-2 gearmotor assembly)	0
10	A120-1	Bellcrank	1
11	A121-17	Push-Pull Tube Assembly	1
12	A169-37**	Muffler with Risers (O-360 engine)	1
13	A189-10	Nut – Double Lock	1
14	A189-12	Nut – Double Lock	2
15	A190-2	V-Belt Set	1
16	A426-6	Cap – Collective Spring	1
17	A615-1	Gasket – Carburetor-to-Air Box	1

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
18	A628-6	Connector Assembly – Harness	2
19	A747-1	Nozzle Assembly (gearbox cooling)	1
20	A780-2	Cable Assembly – Battery Ground (aft battery)	1
21	A780-33	Cable Assembly – Battery Power (aft battery; this part will be provided unless alternate part [below] is selected)	1
	A780-32	Cable Assembly – Battery Power (fwd battery)	0
22	A785-1	Hose – Air (intake)	1
23	A785-6	Hose – Air (gearbox cooling)	1
24	A785-26***	Hose – Air (hot air inlet for A057-2 airbox assembly)	1
25	A792-5	Dual Tachometer	1
26	A947-1	Flex Plate Assembly – Forward	1
27	A947-2	Flex Plate Assembly – Intermediate	1
28	A947-3	Flex Plate Assembly – Aft	1
29	B021-1R	Tail Rotor Gearbox	1
30	B174-1R	Fanwheel Assembly.	1
31	B224-3	Tail Rotor Drive Shaft	1
32	B283-1	Hose Assembly (fuel system)	1
33	B283-6	Hose Assembly (fuel system)	1
34	B350-2	Pin – Spring (fanshaft nut)	1
35	C636-2	Support (C649-1 oil cooler on O-360 engine)	1
36	F628-8	Buckle Assembly	2
37	D756-2****	Bellcrank Assembly (requires compliance with SL-66)	1
38	KI-274-1*****	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
39	KI-2207	A017-1 Swashplate Installation Kit Instructions	1
40	R5167	A006 Main Rotor Gearbox Crate	1
41	R5171	A016 Main Rotor Blade Crate	1
42	R7952	Core Deposits	1
43	AN320-18	Nut – Fanshaft	1
44	MS16562-15	Pin – Spring	1
45	MS20002-18	Washer	1
46	MS24665-372+	Cotter Pin (Note: “+” in part number indicates 5-qty pack)	1
47	NAS1149F0632P+	Washer (Note: “+” in part number indicates 20-qty pack)	1
48	NAS1149F1832P	Washer	3
49	NAS630-80	Bolt – Teeter	1
50	NAS632-82	Bolt – Coning	2

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
51	NAS6604-38	Bolt	1
52	NAS6606H23	Bolt	6

- * “.CS” suffix indicates Blade & Spindle set was static balanced at the factory.
- ** Does not include A169-39 (heater) shroud assembly. Refer to KI-256 for helicopter s/n 4782 & prior, with optional heater installation.
- *** KI-2208 R22 A057-2 Airbox Assembly Installation Kit Instructions is required for helicopter S/N 2571M thru 2664, if not previously accomplished; order separately.
- **** To comply with Service Letter SL-66, substitute KI-218-1B R22 Full Throttle Caution Light Kit Instructions for bellcrank.
- ***** Upgrades B286-2 Governor Controller to the new D270-1.CS Governor Controller/Engine Monitoring Unit.