

**R44 II IO-540 Engine Installation Provisions Kit Instructions**

*Kit provides engine cooling panels, supplemental parts, and associated hardware to prepare engine for installation to helicopter; engine not included. New or overhauled engines ordered from RHC have provisions kit installed.*

**NOTE**

Visit [www.robinsonheli.com](http://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 R44 Maintenance Manual (MM) and R44 Illustrated Parts Catalog (IPC) for installation data.

ITEM	PART NUMBER	KIT CONTENTS	QTY
1	KI-4406Instr.	Kit Instructions . . . . .	1
2	A130-51	Spacer . . . . .	1
3	A412-1	Cover . . . . .	2
4	A457-6	Fitting. . . . .	1
5	A457-9	Tee . . . . .	1
6	A457-10	Elbow . . . . .	1
7	A484-3	Plate . . . . .	6
8	A701-1.5FT	Aluminum Tape (1-inch wide, 5 foot length) . . . . .	1
9	A729-10	Tube . . . . .	1
10	A729-31*	Tube (for use with C727-2 breather tube [0.75-inch diameter]). . . . .	1
11	A729-34	Tube . . . . .	1
12	A729-35	Tube . . . . .	1
13	A729-36	Tube . . . . .	1
14	A785-19	Hose – Air Duct (magnetos) . . . . .	2
15	A785-32	Hose – Air Duct (alternator) . . . . .	1
16	B161-102-3	Spirap (1/8-inch diameter, 3-inch length) . . . . .	4
17	B162-2	Clipnut . . . . .	12
18	B173-6	V-Belt – Alternator (for use with D748-6 alternator. This part will be provided unless an alternate part [below] is selected.) . . . . .	1
	B173-2	V-Belt – Alternator (for use with D729-2 alternator). . . . .	0
	B173-3	V-Belt – Alternator (for use with D748-1 alternator). . . . .	0
19	B277-16	Clamp . . . . .	2
20	B277-24	Clamp . . . . .	2
21	B277-28	Clamp . . . . .	6
22	B283-7	Hose Assembly (fuel system) . . . . .	1

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
23	B401-2	Grommet – Angle Valve . . . . .	11
24	C306-4	Panel Assembly (upper) . . . . .	1
25	C306-5	Panel (lower) . . . . .	1
26	C309-6	Panel Assembly . . . . .	1
27	C310-4	Panel Assembly (upper) . . . . .	1
28	C310-5	Panel (lower) . . . . .	1
29	C357-1	Clip – Single Bend ([6] for ignition harness; [1] for LH magneto cooling hose) . . . . .	7
30	C357-3	Clip – Straight (oil cooler lines) . . . . .	3
31	C357-4	Clip – Double Bend (replaces C357-1 clip for RH magneto cooling hose). . . . .	1
32	C449-1	Cover Assembly (engine, RH side) . . . . .	1
33	C449-3	Cover Assembly (engine, LH side, with aft battery installation. This part will be provided unless alternate part [below] is selected.) . . . . .	1
	C449-1	Cover Assembly (engine, LH side, all other battery installations) . . . . .	0
34	C487-1	Retainer – Straight . . . . .	2
35	C487-2	Retainer – Bent . . . . .	2
36	C730-1	Guard – Fuel Hose . . . . .	1
37	D143-1	Nut Assembly . . . . .	2
38	D210-3	Nut . . . . .	12
39	D319-4	Fitting (replaces superceded MS21900D6 adapter) . . . . .	1
40	D380-1	Panel Assembly – LH . . . . .	1
41	D380-3	Panel Assembly – Center (large) . . . . .	2
42	D380-7	Panel Assembly – LH (end) . . . . .	1
43	D380-9	Panel – Center (small) . . . . .	2
44	D380-10	Panel Assembly – RH . . . . .	1
45	D380-12	Panel Assembly – RH (end) . . . . .	1
46	D381-1	Cover Assembly – LH (cooling system) . . . . .	1
47	D382-4	Cover Assembly – RH (top) . . . . .	1
48	D382-5	Cover Assembly – RH (end) . . . . .	1
49	D664-2	Strap . . . . .	2
50	D695-6	Cover . . . . .	1
51	D751-1	Panel Assembly – Aux Oil Cooler . . . . .	1
52	D754-1	Baffle Assembly – Intercylinder . . . . .	1
53	D774-13	Spring . . . . .	4
54	STD-160	Lockwasher (Lycoming part number) . . . . .	2
55	06B26811**	Gasket (Lycoming part number) . . . . .	6
56	73032	Gasket (Lycoming part number) . . . . .	1
57	MS21042L08	Nut . . . . .	117

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
58	MS21919WDG2	Clamp .....	2
59	MS21919WDG4	Clamp .....	2
60	MS21919WDG6	Clamp .....	2
61	MS21919WDG7	Clamp .....	1
62	MS21919WDG22	Clamp .....	2
63	MS27039C0805	Screw .....	119
64	MS27039C0806	Screw .....	32
65	MS27039C0807	Screw .....	2
66	MS29512-06	Packing .....	1
67	MS3367-3-9	Ty-Rap .....	10
68	MS3367-5-9+	Ty-Rap (Note: "+" in contents part number indicates 20-qty pack) .....	1
69	MS3367-7-9+	Ty-Rap (Note: "+" in contents part number indicates 10-qty pack) .....	1
70	MS35489-2	Grommet .....	6
71	NAS1149F0332P+	Washer (Note: "+" in contents part number indicates 20-qty pack) .....	1
72	NAS1149FN816P+	Washer (Note: "+" in contents part number indicates 20-qty pack) .....	10
73	NAS1351-3-6P	Screw .....	1
74	NAS1351-3-16P	Screw .....	12
75	NAS1352-08-8P	Screw – Socket Cap .....	5
76	NAS6603-5	Bolt .....	1

\* Engines equipped with C728-2 engine air/oil separator assembly require [1] A785-43 hose and [1] A729-77 tube; order parts separately. To upgrade breather tube installation with air/oil separator installation, order KI-255-2 R44-series Engine Air-Oil Separator Installation Kit.

\*\* Replaces cork gaskets (if installed) under rocker box covers on engine.