

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 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	C653-1	Rubber Pads - Engine mount	2
37	C653-2	Rubber Pads - Engine mount	2
38	C730-1	Guard – Fuel Hose	1
39	D143-1	Nut Assembly	2
40	D210-3	Nut	12
41	D319-4	Fitting (replaces superceded MS21900D6 adapter)	1
42	D380-1	Panel Assembly – LH	1
43	D380-3	Panel Assembly – Center (large)	2
44	D380-7	Panel Assembly – LH (end)	1
45	D380-9	Panel – Center (small)	2
46	D380-10	Panel Assembly – RH	1
47	D380-12	Panel Assembly – RH (end)	1
48	D381-1	Cover Assembly – LH (cooling system)	1
49	D382-4	Cover Assembly – RH (top)	1
50	D382-5	Cover Assembly – RH (end)	1
51	D664-2	Strap	2
52	D695-6	Cover	1
53	D751-1	Panel Assembly – Aux Oil Cooler	1
54	D754-1	Baffle Assembly – Intercylinder	1
55	D774-13	Spring	4
56	STD-160	Lockwasher (Lycoming part number)	2
57	06B26811**	Gasket (Lycoming part number)	6

ITEM	PART NUMBER	KIT CONTENTS (Cont'd)	QTY
58	73032	Gasket (Lycoming part number)	1
59	MS21042L08	Nut	117
60	MS21919WDG2	Clamp	2
61	MS21919WDG4	Clamp	2
62	MS21919WDG6	Clamp	2
63	MS21919WDG7	Clamp	1
64	MS21919WDG22	Clamp	2
65	MS27039C0805	Screw	119
66	MS27039C0806	Screw	32
67	MS27039C0807	Screw	2
68	MS29512-06	Packing	1
69	MS3367-3-9	Ty-Rap	10
70	MS3367-5-9+	Ty-Rap (Note: "+" in contents part number indicates 20-qty pack)	1
71	MS3367-7-9+	Ty-Rap (Note: "+" in contents part number indicates 10-qty pack)	1
72	MS35489-2	Grommet	6
73	NAS1149F0332P+	Washer (Note: "+" in contents part number indicates 20-qty pack)	1
74	NAS1149FN816P+	Washer (Note: "+" in contents part number indicates 20-qty pack)	10
75	NAS1351-3-6P	Screw	1
76	NAS1351-3-16P	Screw	12
77	NAS1352-08-8P	Screw – Socket Cap	5
78	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.