



Robinson Helicopter Parts

3948 Aviation Cir. NW, Atlanta, Georgia 30336

Phone 404.424.9105 Fax 404.601.9795

**R44**

### Rotorcorp Overhaul Kit Pricing 2012: Robinson R44 ASTRO

Thank you for contacting Rotorcorp for the approaching overhaul on your *Robinson R44 ASTRO helicopter*! Complete field overhaul kits combine the overhaul/exchange components together with the new parts to perform the airframe overhaul in the field. The following kit package offers an easy and convenient way to order all necessary components at a discounted price.

**R44 Astro Field Component Overhaul Kit (R7543)..... \$121,000**

Includes: main rotor and tail rotor blades, spindles, flex plates, fanwheel, belts, main & tail gearboxes, swashplate, clutch, actuator, fanshaft, pitch control, TR driveshaft and shoulder harness. See RHC Kit Contents (attached) for full kit contents.

**R44 Astro Core Charge, Refundable (R7544)..... \$21,592**

Note: The core charge is forwarded by the Service Center to Robinson Helicopter Company and is refunded upon receipt and inspection of acceptable core components. The amount of the core charge refunded to the customer is typically 80-85% of the amount paid, as determined at the sole discretion of Robinson Helicopter Company. The service center typically receives the core fee refund within 6-8 weeks from the time the components are received by Robinson Helicopter Company.

**O-540 Engine Build-Up Kit (R2301)..... \$3700**

Includes all engine cooling panels, gaskets, hoses, lines, etc.

**R44 Interior Overhaul Kit, Leather (R8014)..... \$5800**

NOTE: Interior overhaul kit includes new seats, carpets, insulation, cyclic and collective boots, etc. *Must specify color* (blue, gray, brown, tan) *and heater location*. Substitute Velour Interior Kit (R8010) subtract \$650.

Subtotal.....\$152,092

Refund to customer of Core charge (estimate).....-\$18,354

**Total Estimated Overhaul Kit Price (net).....\$133,738**

We look forward to providing you with any additional information you may need to make an informed decision concerning your overhaul- please feel free to contact us for a formal estimate for your specific configuration and remember to ask about our **complimentary tool loaner program** with the purchase of any overhaul kit. Thanks in advance for your consideration!

**Call Rotorcorp today 404-424-9105 or visit us online!**



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**\*\*\*\*FOR COMPLIANCE WITH SERVICE BULLETIN SB-78\*\*\*\***

Per Service Bulletin SB-78, all Robinson Astro, Raven (S/N 0001 thru 2064), and R44 Raven II helicopters (S/N 10001 thru 12890) must complete the retrofit of KI-196 *R44 Series Bladder Fuel Tank* by no later than December 31<sup>st</sup>, 2014. To minimize aircraft downtime to comply with this SB, many operators are electing to coordinate installation of the Kit with the overhaul of their helicopter.

**NOTE:** Robinson has maintained current pricing for the kit through the end of 2012, though it may increase at any time without notice.

**NOTE:** Rotorcorp's experience is showing that the KI-196 lead time is SIGNIFICANTLY longer than that of an overhaul kit. There is currently a 45-60 day lead time for R44 Overhaul Kit. In order to avoid costly delays, Customer's planning to coordinate kit installation with overhaul should plan to order the KI-196 at least two full months (60 days) prior to overhaul kit order.

For details on SB-78 please visit [www.rotorcorp.com/publications/](http://www.rotorcorp.com/publications/)

**Rotorcorp Bladder Kit Pricing:**

KI-196-1 <i>R44 Main Aux. Bladder Kit</i> (S/N 0001 thru 2064).....	\$7700
KI-196-2 <i>R44 II Main Aux. Bladder Kit</i> (S/N 10001 thru 12890).....	\$7700

# ROBINSON HELICOPTER COMPANY

2901 Airport Drive, Torrance, California 90505

Phone (310) 539-0508 Fax (310) 539-5198

To: All R22 and R44 Service Centers

January 15, 2012

## R22 & R44 FIELD OVERHAUL KITS

Complete field overhaul kits combine the overhaul/exchange components together with the new parts necessary to perform the R22 or R44 airframe overhaul in the field. These packages make it easy to order all of the necessary parts at a discounted price.

### Field Component Overhaul Kit:

Includes new main rotor and tail rotor blades, spindles, flex plates, fairwheel, belts, etc. Also includes complete set of overhauled/exchange components (main & tail gearboxes, swashplate, clutch, actuator, fanshaft, pitch control, TR driveshaft, and shoulder harness). Raven I & II kits include exchange hydraulics. Dealers/Service Centers may either submit exchange components to the factory in advance or pay a core charge, which is refunded upon receipt of acceptable core components. Core charge includes a US\$ 500.00 core for the tail rotor assembly. Please specify aircraft serial number when ordering.

<u>Description</u>	<u>Part Nbr</u>	<u>Kit Price (US\$)</u>	<u>Core Nbr</u>	<u>Core Price (US\$)</u>
R22 Beta	R7351	\$ 73,000	R7352	\$ 15,930
R22 Beta II	R7951	\$ 73,000	R7952	\$ 15,930
R44 Astro	R7543	\$ 121,000	R7544	\$ 21,592
R44 Raven I	R8209	\$ 121,000	R8211	\$ 42,020
R44 Raven II	R8210	\$ 126,000	R8212	\$ 42,020

### Engine Build-Up Kits

Includes all engine cooling panels. *Do not order if purchasing a Robinson Overhauled engine as build-up is included.*

<u>Description</u>	<u>Part Nbr</u>	<u>Price (US\$)</u>
O-320 Engine Build-up	R8299	\$ 2,150
O-360 Engine Build-up	R8300	\$ 2,400 (specify A313-7 or -9 panel)
O-540 Engine Build-up	R8301	\$ 3,700
IO-540 Engine Build-up	R8302	\$ 3,800

### Interior Overhaul Kit:

Includes new seats, carpets, insulation, cyclic and collective boots, etc. *Must specify color (blue, gray, brown, or tan) and heater location (none, aft, forward single, or forward dual).*

<u>Description</u>	<u>Part Nbr</u>	<u>Price (US\$)</u>
R22 Velour Interior	R8005	\$ 2,600
R22 Leather Interior	R8013	\$ 3,100
R44 Velour Interior	R8010	\$ 5,400
R44 Leather Interior	R8014	\$ 5,800



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2901 Airport Drive, Torrance, California 90505

Phone (310) 539-0508 Fax (310) 539-5198

By: ZA 1-4-11

Revised: 04 January 2011

Appvd: Ed Cox 10 JAN 2011

## R44 ASTRO 2200-HOUR FIELD OVERHAUL KIT

The parts and components listed in this kit are for the airframe overhaul of a normally equipped R44 Astro (non-hydraulic\*). Owners of R44 Clippers, Instrument Trainers, Police, & E.N.G. Ships may need to order additional parts and should review the panels, cable assemblies, hoses and other special equipment required for their aircraft. For 4400-hour overhauls refer to R44 Maintenance Manual Airworthiness Limitations section for additional parts requiring replacement.

### KIT CONTENTS:

#### Parts Requiring Replacement Due to 2200-hour Life Limit:

1.	C005-4	M.R. Hub Assembly	1 ea
2.	C008-4	T.R. Assembly	1 ea
3.	C020-1	Upper Frame Assembly	1 ea
4.	D079-1	T.R. Guard Assembly	1 ea
5.	D224-2	T.R. Driveshaft Assembly	1 ea

NOTE: C023 Tailcones Rev M and prior require replacement at 2000 hours; Rev N and later require replacement at 4400 hours. Order as required.

#### Overhaul/Exchange Components\*\*:

1.	C005-6R	C005-6 M.R. Blades (2) OH/EXCH	1 ea
2.	C006-6R	C006-6 M.R. Gearbox OH/EXCH	1 ea
3.	C007-5R	C007-5 Fanshaft Bearing OH/EXCH	1 ea
4.	C017-6R	C017-6 Swashplate OH/EXCH	1 ea
5.	C018-2R	C018-2 Clutch OH/EXCH***	1 ea
6.	C021-1R	C021-1 T.R. Gearbox OH/EXCH	1 ea
7.	C051-1R	C051-1 Actuator OH/EXCH	1 ea
8.	C055-9R	C055-9 Cyclic Trim (Lat.) OH/EXCH	1 ea
9.	C055-10R	C055-10 Cyclic Trim (Long.) OH/EXCH	1 ea
10.	C792-4R	C792-4 Tachometer OH/EXCH	1 ea
11.	D174-2R	D174-2 Fanwheel Assembly OH/EXCH	1 ea
12.	D278-1R	D278-1 Governor Controller OH/EXCH	1 ea

\* R44 Astros upgraded with hydraulics require an R44 Raven 2200-Hour Field Overhaul Kit.

\*\* A core deposit is required on overhaul/exchange components.

\*\*\* C018-3R Clutch Assembly OH/EXCH with metallized upper sheave is recommended in abrasive environments in place of C018-2R.

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### New Components:

1.	A120-3	Bellcrank Assembly	1 ea
2.	A190-3	V-Belt	1 ea
3.	A522-7	Control Cable, Mixture	1 ea
4.	A694-1	Clamp	1 ea
5.	A729-10	Tube (Breather)	1 ea
6.	A785-6	Hose (MRGB Baffle Supply)	1 ea
7.	A785-7	Hose (Alternator Cooling)	1 ea
8.	A785-10	Hose (Carburetor Heat)	1 ea
9.	A785-11	Hose (Engine Air Induction)	1 ea
10.	A785-12	Hose (Scroll to Muffler Shroud)	1 ea
11.	A785-13	Hose (Muffler Shroud to Slider Valve)	1 ea
12.	A785-16	Hose (MRGB Air Supply)	2 ea
13.	A785-17	Hose (to Scroll)	1 ea
14.	A785-22	Hose (Battery Cooling)	1 ea
15.	A918-5	Elastic Cord Assembly	1 ea
16.	A947-2	Flex Plate Assembly	1 ea
17.	B277-036	Clamp	1 ea
18.	B283-1	Hose (Oil Pressure)	1 ea
19.	B283-3	Hose Assembly (Fuel)	1 ea
20.	B345-4	Link	2 ea
21.	B350-3	Pin (Spring)	1 ea
22.	B401-1	Grommet	12 ea
23.	C031-1	T.R. Pitch Control Assembly	1 ea
24.	C119-2	Bumper	1 ea
25.	C121-17	Push/Pull Tube Assembly	1 ea
26.	C152-1	Thrust Washer	6 ea
27.	C169-1	Muffler Assembly (With Risers)	1 ea
28.	C182-1	Nut	1 ea
29.	C189-14	Nut, Double Lock	3 ea
30.	C439-4	Roller	9 ea
31.	C439-9	Bushing	3 ea
32.	C568-1	Scoop Assembly, Carb Heat	1 ea
33.	C628-5	Connector Assembly, LH Fwd	1 ea
34.	C628-6	Connector Assembly, RH Fwd	1 ea
35.	C628-7	Connector Assembly, Aft	2 ea
36.	C918-1	Elastic Cord Assembly	1 ea
37.	C918-7	Elastic Cord Assembly	1 ea
38.	C918-12	Elastic Cord Assembly	1 ea
39.	C918-15	Elastic Cord Assembly	1 ea
40.	C947-1	Flex Plate Assembly	1 ea
41.	C947-3	Flex Plate Assembly	1 ea
42.	D081-1	Spacer	2 ea
43.	D082-1	Tube Assembly	1 ea
44.	F628-7	Buckle Assembly	4 ea

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Revised: 04 January 20011

## New Components (continued):

45.	AN3-41A	Bolt	2 ea
46.	AN3-44A	Bolt	2 ea
47.	MS16562-36	Roll Pin	1 ea
48.	MS20002-24	Washer	1 ea
49.	MS21042L3	Nut	3 ea
50.	MS24665-423	Cotter Pin	3 ea
51.	MS27039C1-09	Screw	1 ea
52.	NAS1149F0332P	Washer	5 ea
53.	NAS1149F2432P	Washer	3 ea
54.	NAS1304-35	Bolt	1 ea
55.	NAS634-105	Bolt	3 ea
56.	NAS6603-16	Bolt	2 ea
57.	NAS6604-4	Bolt	4 ea
58.	R5352	C016 M.R. Blade Crate	1 ea
59.	R5384	C006 M.R. Gearbox Crate	1 ea
60.	R7983	C017-5 Field Installation Kit	1 ea

NOTE: If helicopter has not been upgraded to the CH48108 Oil Filter, order the following parts:

69551	Gasket	1 ea
69106	Cover	1 ea
A723-15	Oil Line Assembly	1 ea
A723-16	Oil Line Assembly	1 ea
KI-163	R44 Full-Flow Oil Filter Kit	1 ea
MS20822-8	Elbow	1 ea
STD-8	Washer	4 ea
STD-1856	Screw	4 ea

NOTE: If helicopter has not been upgraded to the C649-2 Oil Cooler, order the following parts:

A723-15	Oil Line Assembly	1 ea
A723-16	Oil Line Assembly	1 ea
C649-2	Oil Cooler, Large	1 ea