

R44 SERVICE BULLETIN SB-81

DATE: 21 February 2012

TO: R44 and R44 II owners, operators, and maintenance personnel

SUBJECT: Hydraulic Servos

ROTORCRAFT AFFECTED: R44 and R44 II helicopters equipped with D212-1 hydraulic servos listed in Table 1, and spare D212-1 hydraulic servos listed in Table 1.

TIME OF COMPLIANCE: By 31 August 2012.

BACKGROUND: During manufacturing inspection, machining burrs were found in a hydraulic servo component. This bulletin requires some servos assembled after March 2010 (see Table 1) be returned to RHC for inspection.

COMPLIANCE PROCEDURE:

1. Determine if spare(s) or helicopter's D212-1 hydraulic servo serial numbers are listed in Table 1. Serial numbers of installed servos are listed in the helicopter's Airframe Maintenance Record (logbook); verify serial number on servo identification plate. (Servos listed in Table 1 and stamped with an "A" immediately following the serial number on the identification plate have been inspected and are no longer affected.)
2. If installed servo serial number is listed in Table 1, remove servo per R44 Maintenance Manual (MM) § 8.750 (refer to www.robinsonheli.com for current revision).
3. Return affected servo(s) to RHC with completed [Component Return Authorization](#) form.
4. Verify servo to be installed is:
 - a. Not listed in Table 1, or
 - b. Listed in Table 1 and stamped with an "A" immediately following the serial number on the identification plate.
5. Install servo per MM § 8.760 (refer to www.robinsonheli.com for current revision).
6. Replace hydraulic reservoir filter per MM § 1.170.
7. Make appropriate maintenance record entries. If installed servo is stamped with an "A" immediately following the serial number on the identification plate, then enter "A" after serial number in the helicopter's Airframe Maintenance Record.

(OVER)

Approximate Cost:

Parts: No charge for inspection of servos. Warranty applies to all work performed at factory, but does not include transportation or shipping cost.

Consumables:

- A257-15 Hydraulic fluid (see MM § 1.470 for approved lubricants)
- B270-21 Protectant (see MM § 1.480 for approved adhesives & sealants)
- AN6235-1A Filter (hydraulic reservoir)
- MS28778-14 Packing (hydraulic reservoir filter)
- Assorted palnuts

NOTE

Each inspected D212-1 servo will be returned with:

- (1) D454-3 Retainer (reusable; supersedes MS28773-03)
- (1) D454-4 Retainer (reusable; supersedes MS28773-04)
- (1) MS28775-011 Packing
- (1) MS28778-4 Packing

Labor: 9 man-hours to remove and reinstall three servos.

Return the following serial number D212-1 hydraulic servos to RHC for inspection:						
0058	1583	3294	5370	7961	10330	14948
0059	1585	3552	5377	7966	10331	14955
0061	1670	3558	5380	7967	10421	14956
0095	1673	3559	5435	8121	10425	14958
0217	1871	3565	5436	8130	10426	14961
0222	2046	3633	5437	8556	10490	14975 thru 14978
0223	2370	3643	5544	8557	10491	14982
0427	2371	3652	5547	8614	10492	14984 thru 14986
0428	2390	3654	5778	8615	10581	14988
0433	2397	3751	5781	8618	10582	14989
0462	2400	3752	5782	8916	10633	14993 thru 14995
0689	2401	3757	5995	8917	10634	14997
0804	2518	3969	5999	8921	10635	14998
0818	2560	4016	6176	9197	10891	15043 thru 15082
0928	2620	4019	6236	9294	10892	15089 thru 15148
0930	2649	4878	6805	9298	10895	15173 thru 15440
0933	2735	4885	6806	9299	11122	15465 thru 15474
1064	2736	4886	6811	9418	11531	15478 thru 15487
1130	2741	5021	7346	9421	11532	15956 thru 16035
1145	2780	5039	7347	9422	11533	16043
1506	3160	5045	7348	9581	12464	16046
1507	3163	5097	7409	10063	14126 thru 14135	16047
1508	3277	5098	7410	10140	14568	16051 thru 16060
1551	3278	5296	7411	10146	14701 thru 14710	16062 thru 16072
1581	3289	5312	7640	10147	14759 thru 14787	16113 thru 16148
1582	3293	5364	7896	10320	14793 thru 14822	

TABLE 1

NOTE: Servos stamped with an "A" immediately following the serial number on the identification plate have been inspected and are no longer affected.