

R66 SERVICE LETTER SL-11

DATE: 15 September 2015

TO: R66 Owners, Operators, and Maintenance Personnel

SUBJECT: Main Gearbox Upgrade

ROTORCRAFT AFFECTED: R66 Helicopters with an affected F006-1 main gearbox as listed on the RHC website, unless gearbox was previously overhauled or upgraded. Affected gearboxes were originally installed in R66 helicopters S/N 0004 thru 0454 except R66 S/N 0075, 0097, 0155, 0293, 0295, 0296, 0326, 0373, 0423, 0434, 0441, 0448, 0449, and 0450.

BACKGROUND: The main gearbox design was revised in December 2013 to provide increased strength margins at high power settings. R66 helicopters equipped with a cargo hook or agricultural sprayer require an upgraded main gearbox.

COMPLIANCE PROCEDURE:

1. If the helicopter is to be equipped with a cargo hook or agricultural sprayer, ensure an upgraded F006-1 main gearbox is installed. The RHC website (www.robinsonheli.com) has an [addendum](#) accompanying this SL listing all affected gearboxes that would require upgrading. Affected gearboxes that have already been upgraded can be identified by a B900-12 modification plate adjacent to the gearbox S/N data plate. Overhauled gearboxes have been upgraded and are no longer affected.
2. If main gearbox requires upgrading, return gearbox to the RHC factory for rework. (Return F006-1 main gearbox assembly as defined in R66 Illustrated Parts Catalog Figure 63-3 item 10. See R66 Maintenance Manual for disassembly procedures.)

Approximate Cost:

Parts: \$550 for R7982 main gearbox crate (if required). No charge for gearbox rework at factory. Allow for three weeks at the factory.

Labor: 30 man-hours to remove and reinstall gearbox.

ADDENDUM FOR R66 SERVICE LETTER SL-11

The following F006-1 main gearbox serial numbers are affected by R66 SL-11, unless gearbox was previously upgraded (identified by a B900-12 modification plate adjacent to the gearbox S/N data plate), or overhauled. Overhauled gearboxes have been upgraded and are no longer affected. Affected gearboxes are listed with the corresponding R66 helicopter "ship" serial number in which the gearbox was originally installed.

F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N
0015	0004	0070	0025	0113	0079	0152	0116
0016	0005	0071	0042	0114	0078	0153	0117
0018	0006	0072	0043	0115	0080	0154	0118
0019	0008	0073	0044	0116	0081	0155	0119
0020	0007	0074	0045	0117	0082	0156	0120
0022	0010	0075	0046	0118	0084	0157	0121
0023	0012	0078	0047	0119	0085	0158	0122
0024	0011	0079	0048	0120	0086	0159	0123
0026	0015	0080	0049	0121	0083	0160	0137
0027	0014	0081	0050	0122	0088	0161	0138
0040	0009	0082	0051	0123	0087	0162	0139
0041	0016	0083	0052	0124	0101	0163	0141
0042	0013	0084	0053	0125	0089	0164	0140
0043	0021	0085	0054	0126	0090	0165	0142
0044	0022	0086	0055	0127	0091	0166	0143
0045	0020	0088	0056	0128	0092	0167	0144
0046	0018	0089	0057	0129	0093	0168	0145
0047	0017	0090	0058	0130	0094	0169	0146
0048	0037	0091	0059	0131	0095	0170	0148
0049	0019	0092	0060	0132	0096	0171	0149
0050	0023	0093	0061	0134	0098	0172	0150
0051	0024	0094	0070	0135	0099	0173	0151
0052	0026	0095	0062	0136	0100	0174	0152
0053	0027	0097	0063	0137	0102	0175	0153
0054	0028	0098	0064	0138	0115	0176	0154
0055	0029	0099	0065	0139	0104	0177	0124
0056	0030	0101	0147	0140	0103	0178	0125
0057	0031	0102	0066	0141	0105	0179	0130
0058	0032	0103	0067	0142	0106	0180	0126
0059	0033	0104	0068	0143	0107	0181	0131
0060	0034	0105	0069	0144	0108	0182	0127
0061	0035	0106	0071	0145	0109	0183	0128
0062	0036	0107	0072	0146	0110	0184	0129
0064	0038	0108	0073	0147	0111	0185	0132
0065	0039	0109	0074	0148	0112	0186	0133
0068	0040	0111	0077	0150	0113	0187	0134
0069	0041	0112	0076	0151	0114	0188	0135

ADDENDUM FOR R66 SERVICE LETTER SL-11 (Continued)

F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N
0189	0136	0231	0196	0272	0237	0315	0279
0191	0156	0232	0198	0273	0239	0316	0280
0192	0157	0233	0197	0274	0240	0317	0281
0193	0158	0234	0199	0275	0241	0318	0282
0194	0159	0235	0200	0276	0242	0319	0283
0195	0160	0236	0201	0277	0243	0320	0284
0196	0161	0237	0203	0278	0244	0321	0285
0197	0162	0238	0202	0279	0245	0322	0286
0198	0163	0239	0204	0280	0246	0323	0287
0199	0164	0240	0205	0281	0247	0324	0288
0200	0165	0241	0206	0282	0248	0325	0289
0201	0167	0242	0207	0283	0249	0326	0290
0202	0166	0243	0208	0284	0250	0328	0291
0203	0168	0244	0209	0285	0251	0330	0292
0204	0169	0245	0210	0286	0252	0331	0294
0205	0170	0246	0211	0287	0254	0333	0297
0206	0171	0247	0212	0288	0253	0334	0298
0207	0172	0248	0213	0289	0256	0336	0299
0208	0173	0249	0214	0290	0267	0337	0302
0209	0174	0250	0215	0291	0258	0338	0300
0210	0175	0251	0217	0293	0257	0339	0316
0211	0176	0252	0216	0294	0260	0340	0318
0212	0177	0253	0219	0295	0259	0341	0319
0213	0178	0254	0218	0296	0261	0342	0320
0214	0179	0255	0221	0297	0262	0343	0321
0215	0180	0256	0220	0298	0263	0344	0312
0216	0181	0257	0222	0299	0264	0345	0313
0217	0182	0258	0223	0300	0265	0346	0314
0218	0183	0259	0224	0301	0255	0347	0315
0219	0184	0260	0226	0302	0266	0348	0317
0220	0185	0261	0225	0303	0275	0349	0306
0221	0186	0262	0227	0304	0268	0350	0307
0222	0187	0263	0228	0306	0273	0351	0309
0223	0188	0264	0229	0307	0270	0352	0310
0224	0189	0265	0230	0308	0269	0353	0311
0225	0190	0266	0231	0309	0274	0354	0301
0226	0191	0267	0232	0310	0272	0355	0303
0227	0192	0268	0234	0311	0276	0356	0304
0228	0193	0269	0235	0312	0271	0357	0305
0229	0194	0270	0236	0313	0277	0358	0308
0230	0195	0271	0238	0314	0278	0359	0323

ADDENDUM FOR R66 SERVICE LETTER SL-11 (Continued)

F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N	F006-1 S/N	Ship S/N
0360	0324	0404	0365	0449	0411	0497	0454
0361	0322	0405	0366	0450	0412	0538	0233
0362	0325	0406	0367	0451	0413		
0364	0327	0407	0368	0452	0399		
0366	0328	0408	0369	0453	0392		
0367	0329	0409	0370	0454	0400		
0368	0330	0410	0371	0455	0401		
0370	0331	0411	0372	0456	0414		
0371	0332	0413	0374	0457	0437		
0372	0333	0414	0375	0458	0422		
0373	0334	0415	0376	0459	0415		
0374	0335	0416	0377	0460	0416		
0375	0336	0417	0378	0461	0418		
0376	0337	0418	0379	0463	0417		
0377	0338	0419	0380	0464	0438		
0378	0339	0420	0381	0465	0419		
0379	0340	0421	0382	0466	0424		
0380	0342	0422	0383	0467	0425		
0381	0341	0423	0384	0468	0420		
0382	0343	0424	0385	0469	0433		
0383	0344	0425	0386	0470	0421		
0384	0345	0426	0388	0471	0426		
0385	0346	0427	0389	0472	0427		
0386	0348	0431	0404	0474	0428		
0387	0347	0432	0393	0475	0432		
0388	0349	0433	0405	0476	0429		
0389	0351	0434	0406	0477	0431		
0390	0352	0435	0390	0478	0430		
0391	0353	0436	0402	0479	0439		
0392	0354	0437	0394	0480	0440		
0393	0355	0438	0403	0483	0435		
0394	0356	0439	0408	0484	0436		
0395	0350	0440	0391	0485	0442		
0396	0357	0441	0395	0486	0443		
0397	0358	0442	0407	0487	0444		
0398	0359	0443	0409	0488	0445		
0399	0360	0444	0396	0489	0446		
0400	0361	0445	0397	0490	0447		
0401	0362	0446	0410	0494	0451		
0402	0363	0447	0387	0495	0452		
0403	0364	0448	0398	0496	0453		