

Applicability

(c) This AD applies to Hamilton Sundstrand Corporation (formerly Hamilton Standard Division) 568F propellers with propeller blades, part numbers (P/Ns) R815505-3 and R815505-4, serial numbers (SNs) FR1699 through FR2625 inclusive (877 blades), and SNs FR20010610 through FR20021010 inclusive (713 blades), installed. These composite propeller blades are installed on, but not limited to, Aerospatiale ATR42-400, ATR42-500, ATR72-212, and ATR72-500 airplanes.

Unsafe Condition

(d) This AD is prompted by reports of propeller blades found at inspection, with random areas of missing adhesive under the

compression wrap, which exposed the steel tulip part of the blade. We are issuing this AD to prevent propeller blade failure due to corrosion-induced fatigue, which could result in blade separation and possible loss of airplane control.

Compliance

(e) You are responsible for having the actions required by this AD performed within the compliance times specified unless the actions have already been done.

Removal From Service of Affected Propeller Blades

(f) Remove propeller blades, P/Ns R815505-3 and R815505-4 from service as follows:

(1) Blades listed by SN in the following Table 1 of this AD must be removed no later than the date listed in Table 1 of this AD. See Table 2 of this AD for blade SNs that are excluded from the compliance times specified in Table 1 of this AD.

(2) Remove the blades that are listed by SN in Table 2 of this AD no later than December 31, 2007.

(3) In some instances an "RT" reference immediately follows the numeric portion of the serial number on the blade. For purposes of this AD, the "RT" reference has been omitted when specifying affected serial numbers.

TABLE 1.—PROPELLER BLADE REMOVAL SCHEDULE

For propeller blades SNs:	Remove propeller blades from service for rework, no later than:
FR1699 through FR1765	December 31, 2003.
FR1766 through FR1776	March 31, 2004.
FR1777 through FR1855	June 30, 2004.
FR1856 through FR1956	September 30, 2004.
FR1957 through FR2132	December 31, 2004.
FR2133 through FR2230	March 31, 2005.
FR2231 through FR2315	June 30, 2005.
FR2316 through FR2390	September 30, 2005.
FR2391 through FR2433	December 31, 2005.
FR2434 through FR2553	March 31, 2006.
FR2554 through FR2625	June 30, 2006.
FR20010610 through FR20010729	June 30, 2006.
FR20010730 through FR20011018	September 30, 2006.
FR20011019 through FR20011218	December 31, 2006.
FR20011219 through FR20020511	March 31, 2007.
FR20020512 through FR20020757	June 30, 2007.
FR20020758 through FR20020842	September 30, 2007.
FR20020843 through FR20021010	December 31, 2007.

TABLE 2.—BLADE SNs EXCLUDED FROM TABLE 1

FR1720	FR1887	FR1962	FR2163
FR1740	FR1888	FR1963	FR2164
FR1742	FR1889	FR2013	FR2165
FR1752	FR1892	FR2022	FR2166
FR1777	FR1893	FR2032	FR2167
FR1791	FR1927	FR2037	FR2168
FR1796	FR1928	FR2038	FR2173
FR1841	FR1929	FR2039	FR2177
FR1843	FR1930	FR2047	FR2179
FR1858	FR1931	FR2058	FR2180
FR1860	FR1932	FR2059	FR2183
FR1865	FR1933	FR2060	FR2204
FR1869	FR1934	FR2063	FR2205
FR1871	FR1935	FR2064	FR2206
FR1872	FR1936	FR2067	FR2207
FR1873	FR1937	FR2068	FR2208
FR1874	FR1938	FR2099	FR2233
FR1875	FR1942	FR2108	FR2234
FR1877	FR1943	FR2134	FR2467
FR1878	FR1957	FR2135	FR20010626
FR1879	FR1960	FR2136	FR20010936
FR1880	FR1961	FR2137	FR20011218

Installation of Propeller Blades That Have a SN Listed in Table 1 or Table 2 of This AD

(g) After the effective date of this AD, do not install any blade that has P/N R815505-

3 or R815505-4 and SN listed in Table 1 or Table 2 of this AD, and that has exceeded the date for replacement.

Alternative Methods of Compliance

(h) The Manager, Boston Aircraft Certification Office, has the authority to approve alternative methods of compliance