

Service Bulletin No: 21-015

Ref No: 386

Modification No: EC-18-0352

ATA Chapter: 21

**AIR CONDITIONING - COMPRESSOR CONDENSER MODULE -  
INSPECT THE COMPRESSOR CONDENSER MODULE FAN BLADE****1. Planning Information****A. Effectivity**

PC-12, PC-12/45, PC-12/47 and PC-12/47E Series aircraft with Compressor Condenser Module (CCM), Enviro P/N 134400-59 installed.

Refer to Enviro Systems Inc. SB 18-101 (latest revision) for the serial numbers of the CCM affected.

**B. Concurrent Requirements**

None.

**C. Reason****(1) Problem**

An operating condition may exist where the condenser fan becomes detached from the shaft mounting hub and completely fails. The condenser fan no longer provides airflow through the condenser which results in a loss of cooling performance and cycling of the compressor drive motor. This can cause damage to the compressor drive motor.

If the failure does occur, the fan blade is contained by the condenser shroud and this does not result in an unsafe condition.

**(2) Solution**

Inspect the condition of the fan blade. If the blade is detached or there is a potential premature failure, replace the fan.

**D. Description**

This service bulletin gives the data and instructions necessary to use the Enviro Service Bulletin 18-101.

**E. Compliance**

Recommended.

**F. Approval**

The technical content of this document is approved under the authority of DOA No. EASA. 21J. 357.

PILATUS advises Operators/Owners to check with their designated Airworthiness Authorities for any changes, local regulations or sanctions that may affect the embodiment of this service bulletin.

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**H. Manpower**

<b>Task</b>	<b>Man-hours Inspection Only</b>	<b>Man-hours Inspection and Replacement</b>
Get access to the CCM	0.05	0.05
Inspection only and/or replace the fan blade	0.10	4.00
Test and Close Up	0.15	0.15
<b>TOTAL MAN-HOURS</b>	<b>0.30</b>	<b>4.20</b>

**I. Weight and Balance**

Not affected.

**J. Electrical Load Data**

Not changed.

**K. Software**

None.

**L. References**

NOTE: For PC-12, PC-12/45 and PC-12/47 aircraft, prefix the reference with 12-A-  
For PC-12/47E aircraft, prefix the reference with 12-B-.

Aircraft Maintenance Manual (AMM)

20-31-00-00A-070A-A                      24-00-00-00A-901A-A

Enviro Service Bulletin 18-101 (at the latest revision).

**M. Publications Affected**

None.

**N. Interchangeability of Parts**

None.

**2. Material Information****A. Material - Price and Availability**

Operators that require additional information and/or Service Bulletin Material should contact their authorized Pilatus Service Center, or Pilatus Customer Support on [www.pilatus-aircraft.com](http://www.pilatus-aircraft.com) → contact us

NOTE: Part Numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd. reserves the right to change the part numbers as necessary. Part numbers of items delivered with the kit are correct when the kit is dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the kit if parts are superseded. Operators are requested to check the IPD for delivered parts which differ from those listed in the Service Bulletin Materials Kit List (if applicable).

NOTE: Operators are requested to advise Pilatus Aircraft Ltd, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are affected by this Service Bulletin.

<b>Modification Kit Number</b>	<b>Availability</b>
959.90.22.149	Approximately 1 month

**B. Warranty**

After the Serial Number of the affected CCM is received (refer to paragraph 2.1 of Enviro SB 18-101), Pilatus will supply the Modification Kit free of charge. Credit for labor will be issued as required (refer to paragraph 1.H. of this SB) on approval of a warranty claim, provided the work is accomplished by an authorized Pilatus Service Center within 18 months from the issue date of this Service Bulletin.

NOTE: Operators who decide not to accomplish this service bulletin within the specified time period will no longer receive warranty consideration for any future failure of the affected CCMs.



## 2.0 COMPONENT INSPECTION

### 2.1. EFFECTIVITY

Below is a list of potentially affected components. The following inspection procedures shall be conducted on each of these components. If a fan blade is found to be suspect based during the inspection, use the fan replacement instructions to replace the fan blade on the CCM. If the fan blade is part of a K1134400-59 Conversion Kit, the fan shall be replaced with a replacement fan supplied by Enviro Systems. Fan blades identified as suspect shall be returned to Enviro Systems. The fan blade shall be replaced using kit part number K1260970-1. This kit includes the fan blade, nut and washer as well as a placard to apply to the unit to designate that the service bulleting has been performed.

**Table 1: Component Effectivity**

Part Number	QTY	S/N	S/O
1134400-59	1	2076	S69018/6
1134400-59	1	2077	S69018/6
1134400-59	1	2078	S69018/6
1134400-59	1	2079	S69018/6
1134400-59	1	2080	S69018/6
1134400-59	1	2081	S69018/6
1134400-59	1	2082	S69018/6
1134400-59	1	2083	S71161/2
1134400-59	1	2084	S71162/2
1134400-59	1	2085	S71164/2
1134400-59	1	2086	S71163/2
1134400-59	1	2087	S70051/7
1134400-59	1	2088	S70051/7
1134400-59	1	2089	S70051/7
1134400-59	1	2090	S70051/7
1134400-59	1	2091	S70051/7
1134400-59	1	2092	S70051/7
1134400-59	1	2093	S70051/7
1134400-59	1	2094	S70051/7
1134400-59	1	2095	S70051/7
1134400-59	1	2096	S70051/7
1134400-59	1	2097	S71169/2
1134400-59	1	2098	S71168/2
1134400-59	1	2099	S71167/2
1134400-59	1	2100	S71165/2
1134400-59	1	2101	S71443/2
1134400-59	1	2102	S71444/2
1134400-59	1	2103	S71445/2
1134400-59	1	2104	S71410/1
1134400-59	1	2105	S71410/1
1134400-59	1	2106	S71410/1
1134400-59	1	2107	S71410/1



Service Bulletin  
 Compressor-Condenser Module P/N: 1134400-59  
 Conversion Kit P/N: K1134400-59

Document No: SB18-101

Revision: A

Part Number	QTY	S/N	S/O
1134400-59	1	2108	S71410/1
1134400-59	1	2109	S71410/1
1134400-59	1	2110	S71410/1
1134400-59	1	2111	S71410/1
1134400-59	1	2112	S71410/1
1134400-59	1	2113	S71410/1
1134400-59	1	2114	S71410/1
1134400-59	1	2115	S71410/1
1134400-59	1	2116	S71410/1
1134400-59	1	2117	S71410/1
1134400-59	1	2118	S71410/1
1134400-59	1	2119	S70936/12
1134400-59	1	2120	S70936/12
1134400-59	1	2121	S70936/12
1134400-59	1	2122	S70936/12
1134400-59	1	2123	S70936/12
1134400-59	1	2124	S70936/12
1134400-59	1	2125	S70936/12
1134400-59	1	2126	S71990/2
1134400-59	1	2127	S71354/2
1134400-59	1	2128	S70511/3
1134400-59	1	2129	S70511/3
1134400-59	1	2130	S70511/3
1134400-59	1	2131	S71410/2
1134400-59	1	2132	S71410/2
1134400-59	1	2133	S71410/2
1134400-59	1	2134	S71410/2
1134400-59	1	2135	S71410/2
1134400-59	1	2136	S71410/2
1134400-59	1	2137	S71410/2
1134400-59	1	2138	S71410/2
1134400-59	1	2139	S71410/2
1134400-59	1	2140	S71410/2
1134400-59	1	2141	S71410/2
1134400-59	1	2142	S71410/2
1134400-59	1	2143	S71410/2
1134400-59	1	2152	S71410/2
1134400-59	1	2153	S71410/2
1134400-59	1	2154	S71410/3
1134400-59	1	2155	S71410/3
1134400-59	1	2156	S71410/3
1134400-59	1	2157	S71410/3
1134400-59	1	2158	S71410/3



Service Bulletin  
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 Conversion Kit P/N: K1134400-59

Document No: SB18-101

Revision: A

Part Number	QTY	S/N	S/O
1134400-59	1	2159	S71410/3
1134400-59	1	2160	S71410/3
1134400-59	1	2161	S70936/13
1134400-59	1	2162	S70936/13
1134400-59	1	2163	S70936/13
1134400-59	1	2164	S70936/13
1134400-59	1	2165	S71410/4
1134400-59	1	2166	S70936/13
1134400-59	1	2167	S71410/4
1134400-59	1	2168	S71410/4
1134400-59	1	2169	S71410/4
1134400-59	1	2170	S71410/4
1134400-59	1	2171	S71410/4
1134400-59	1	2172	S71410/4
1134400-59	1	2173	S71410/4
1134400-59	1	2174	S71410/4
1134400-59	1	2175	S71410/4
1134400-59	1	2176	S70936/13
1134400-59	1	2177	S71410/4
1134400-59	1	2178	S71410/4
1134400-59	1	2179	S71410/4
1134400-59	1	2180	S71410/4
1134400-59	1	2181	S71410/4
1134400-59	1	2182	S71410/4
1134400-59	1	2183	S71410/4
1134400-59	1	2184	S71410/4
1134400-59	1	2185	S70936/14
1134400-59	1	2186	S70936/14
1134400-59	1	2187	S70936/14
1134400-59	1	2188	S70936/14
1134400-59	1	2189	S70936/14
1134400-59	1	2190	S70936/14
1134400-59	1	2191	S70936/14
K1134400-59	3		S69664/4
K1134400-59	3		S70853/2
K1134400-59	2		S71097/1
K1134400-59	4		S70051/8
K1134400-59	1		S71181/1
K1134400-59	1		S70511/4
K1134400-59	4		S72822/1
K1134400-59	1		S72874/1
K1134400-59	3		S72804/1