

T-811 Service Bulletin

Subject:	Compressor Turbine (CT) Blade Inspection.
EXTEX Part Numbers:	E3045741-01
Installation(s):	Pratt & Whitney Canada (PWC) Engine Models PT6A-114 and PT6A-114A
Revision History:	Rev IR – Dated 12/30/13 Rev A – Dated 2/21/14 Rev B – Dated 2/12/16: Updated TIMKEN To EXTEX Engineered Products.
Reason:	To provide Supplemental Instructions for Continued Airworthiness (ICA).
	This Service Bulletin was prompted by the Airworthiness Directive (CF-2013-21R) issued by the Transport Canada regulatory authority, Service Bulletin(s) issued by Pratt & Whitney Canada (PWC), and several incidents with the PWC compressor turbine (CT) blade (3045741-01, 3039901, and 3102401-01) resulting in in-flight shutdown when the engine is operated at higher temperatures and power than the Pilot Operating Handbook recommended power settings. Because of similarities in the EXTEX & PWC blade material, EXTEX proactively is issuing this Service Bulletin to incorporate additional inspection requirements for EXTEX CT Blades (E3045741-01) when installed in PT6A-114 or PT6A-114A engine models. There have been no reported service incidents with the EXTEX CT blade (E3045741-01).
Description:	This Service Bulletin would require initial and repetitive Borescope Inspection (BSI) of CT blades, two blade metallurgical inspections at HSI, and the removal from service of blades that fail the inspection.
Applicability:	Pratt & Whitney Canada Engine Models PT6A-114 and PT6A-114A with EXTEX CT Blades E3045741-01 installed.
Accomplishment Instructions:	<p>(Part A) Initial and recurrent borescope inspection of the E3045741-01 CT Blades trailing edges.</p> <ol style="list-style-type: none"> 1) For engines with 500 or more operating hours since new blades were installed (blade TSN) or time since last inspected (TSLI), perform a borescope inspection within 150 operating hours after the effective date of this Service Bulletin. For engines with fewer than 500 operating hours since new blades were installed (blade TSN) or time since last inspection (TSLI), perform a borescope inspection within 650 hours blade TSN or TSLI. Perform the borescope inspection in accordance with the latest revision of PWC Maintenance Manual (MM): 3043512, and follow the MM recommendations. 2) Thereafter, repeat the borescope inspection within every additional 500 operating hours TSLI. 3) After each inspection, record accomplishment of SB T-811 Part A in the applicable engine module log book <p>(Part B) Metallurgical evaluation of E3045741-01 CT blades.</p> <ol style="list-style-type: none"> 1) At every HSI or overhaul: <ol style="list-style-type: none"> a) Compressor Turbine Blades must be inspected per the TCH overhaul manual including Non-Destructive Testing (NDT) and stretch measurement. b) Submit two blades for metallurgical evaluation in accordance with PWC Standard Practices Manual PN 585005. 2) If the metallurgical evaluation is not acceptable, replace the complete set of CT blades with new or serviceable E3045741-01 or other FAA approved replacement blades. 3) After each inspection, record accomplishment of SB T-811 Part B in the applicable engine module log book.
Approval:	This document is FAA approved.
Notes:	Please contact your EXTEX Engineered Products customer service representative with any questions. Reference Docket No. FAA-2013-0766.

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Service Information

P/N(s): E3045741-01

Revision: B

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