

T-809 Service Bulletin

Subject:	Inspection and Repair of coated compressor turbine blades
EXTEX Part Number:	E3045741-01
Installation(s):	Pratt & Whitney Canada (PT6A-11, 11AG, 15AG, 21, 25, 25A, 25C, 27, 28, 34, 34AG, 34B, 36, 38, 41, 110, 112, 114, 114A, 121, PT6D-114A)
Revision History:	Rev IR – Dated 9/21/12 Rev A – Dated 2/12/16 Updated from TIMKEN to EXTEX Engineered Products.
Reason:	Supplemental Instruction for Continued Airworthiness (ICA)
Description:	This document is supplemental information intended to guide the owner / operators through the ICA regarding the coating for the compressor turbine blade
Applicability:	All turbine blades of P/N E304574-01
Accomplishment Instructions:	At time of turbine blade inspections, either through scheduled engine overhaul events or during unplanned bore-scope findings
Approval:	The FAA has approved this document.
Notes:	Please contact your EXTEX Engineered Products representative with any questions.

1. Refer to the Type Certificate Holder's (TCH) published data for instructions for engine disassembly, cleaning, inspection, rework, assembly, operation, and testing.
2. Perform all work at an FAA approved repair facility.
3. The EXTEX Engineered Products blade configuration is highly similar to the equivalent TCH blade in material, dimensions, and processing, except the EXTEX blade has a platinum aluminide coating, whereas the TCH blade has a simple aluminide coating.
4. Use the TCH Instructions for Continued Airworthiness (ICA) for the equivalent TCH blade to inspect, repair, and overhaul the EXTEX blade, with the exception of recoating, as to which, see note 5.
5. When recoating is required per the TCH Overhaul Manual criteria, coat blades with either:
 - a. Platinum Modified Diffused Aluminide Coating per EXTEX specification EO-242, Type II (.0010 to .0025 thick), Class II (by weight: 25-30% aluminum, 40-60% platinum).
 - b. Diffused Aluminide coating per EXTEX specification EO-224, Type II, Class II.

Contact EXTEX Engineered Products, Inc. for recommended coating suppliers.

5.1 Permanently identify recoated blades with 'R1' on a blade platform side or a fir tree end face using vibropeen, dot peen, or electrolytic etch (maximum depth of .003", .020" minimum from edges.)

5.2 When recoating a second time, strike through the 'R1' and remark with an 'R2'.