

T-501 Inspection Limits and Repair

Instructions for Continued Airworthiness

Engine Application(s):	All Honeywell APUs for which Extex parts are eligible for installation.		
Compliance:	As required.		
Notes:	Refer to OEM's published data for installation, engine operation, and disassembly.		
Revisions:	N/C	11/06/02	Initial Release
	A	6/19/03	Editorial changes and added various 36 Series APU parts
	B	7/9/04	Added port plates to 36-150 Series and shroud segment to 700 series
	C	4/6/07	Added applicable part numbers approved since last revision
	D	1/26/09	Updated from Extex to Timken. Removed website reference. Part number correction - E969603-3 was E969603-1 in Table 1 on page 3.
	E	7/20/09	Added 3840223-4E, E3810794-2 and E3840282-3 to Table 1 on page 2.
	F	2/08/16	Updated Timken to EXTEX Engineered Products.

REASON:

To provide instructions for continued airworthiness for various Extex APU components.

DESCRIPTION:

This document establishes instructions for continued airworthiness for various Extex APU components in accordance with FAA Order 8110.42B and the Los Angeles Aircraft Certification Office.

APPROVAL:

Technical aspects are FAA approved.

WEIGHT AND BALANCE:

Not affected.

PREREQUISITES:

None.

ACCOMPLISHMENT INSTRUCTIONS:

Extex has determined and FAA concurred that, for the parts listed in Table 1 below, the OEM ICA for the equivalent OEM part are adequate and may be used to inspect, repair, and overhaul the Extex part.

In accordance with FAA Order 8110.42B and per the Los Angeles Aircraft Certification Office, Extex is *required* to issue unique Instructions for Continued Airworthiness (ICA) only if one of the following applies:

1. The design of the PMA part is such that the OEM ICA are not adequate.
2. Installation of the PMA part renders the OEM ICA for the product invalid.

T-501 Inspection Limits and Repair

Table 1

Part Number	Name	APU Model (Reference only)
3840223-4E	Blade, Turbine	GTCP131 Series
E3840282-3	Blade, Turbine	GTCP131 Series
E3810794-2	Gear Sector, Spur	GTCP131 Series, GTCP36-280 Series
E3613101-8	Turbine Nozzle	GTCP36-150 Series
E3616104-1	Rotor Seal	GTCP36-150 Series
E3826695-1	Deswirl – Compressor	GTCP36-150 Series
E3826779-1	Housing, Aft Diffuser	GTCP36-150 Series
E3826825-3	Guide Vane, Matched	GTCP36-150 Series
E3827086-2	Rotor Seal	GTCP36-150 Series
E3830155-2	Primary Fuel Manifold	GTCP36-150 Series
E3830156-2	Secondary Fuel Manifold	GTCP36-150 Series
E3842347-1	Outer Pilot Ring	GTCP36-150 Series
E3842348-1	Inner Pilot Ring	GTCP36-150 Series
E3846206-3	Airflow Deflector	GTCP36-150 Series
E3846779-1	Nozzle - Turbine	GTCP36-150 Series
E3860005-2	Planet Gearshaft	GTCP36-150 Series
E3860339-1	Gearset Matched, Spur	GTCP36-150 Series
E3860404-1	Gearshaft, Generator Idler	GTCP36-150 Series
E3860675-1	Nut	GTCP36-150 Series
E3881122-1	Cover Assembly	GTCP36-150 Series
E3881123-1	Port Plate	GTCP36-150 Series
E3881124-1	Port Plate	GTCP36-150 Series
E3881125-1	Port Plate	GTCP36-150 Series
E3881126-1	Port Plate	GTCP36-150 Series
E3881127-1	Port Plate	GTCP36-150 Series
E3822493-1	Rotor Seal	GTCP36-300 Series
E3103067-4	Pin	GTCP331 -200, -250 Series
E3612702-1	Bearing, Assy Gear Drive Journal	GTCP331 -200, -250 Series
E3612887-1	Ring Gear Assy	GTCP331 -200, -250 Series
E3615081-1	Seal, Stationary	GTCP331 -200, -250 Series
E3615081-2	Seal, Stationary	GTCP331 -200, -250 Series
E3810119-2	Sector Gear – Spur IGV	GTCP331 -200, -250 Series
E3822057-3	Rotor Seal	GTCP331 -200, -250 Series
E3826099-X	Inlet Guide Vane	GTCP331 -200, -250 Series
E3826102-6	Gear, IGV Ring	GTCP331 -200, -250 Series
E3826127-1	Carrier - Seal	GTCP331 -200, -250 Series
E3826185-4	Insulation Blanket	GTCP331 -200, -250 Series
E3840004-5	1 st Stage Turbine Blade	GTCP331 -200, -250 Series
E3840008-2	2 nd Stage Turbine Blade	GTCP331 -200, -250 Series
E3844006-1	Ring, Split	GTCP331 -200, -250 Series

T-501 Inspection Limits and Repair

Part Number	Name	APU Model (Reference only)
E3844038-4	Stator 1 st Stage GTCP331-200	GTCP331 -200, -250 Series
E3844058-1	Retainer, Piston Seal	GTCP331 -200, -250 Series
E3860165-2	Oil Pump Spur Gear Assembly	GTCP331 -200, -250 Series
E3860168-2	Gear-Starter	GTCP331 -200, -250 Series
E3860169-5	Gear-Spur, Fan	GTCP331 -200, -250 Series
E3862152-1	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862152-2	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862152-3	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862152-4	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862152-5	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862152-6	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862154-1	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862154-2	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862154-3	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862154-4	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862154-5	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862154-6	Bushing - Sleeve	GTCP331 -200, -250 Series
E3862154-7	Bushing - Sleeve	GTCP331 -200, -250 Series
E868186-1	Seal Assembly, Rotating	GTCP331 -200, -250 Series
E868186-2	Seal Assembly, Rotating	GTCP331 -200, -250 Series
E868186-3	Seal Assembly, Rotating	GTCP331 -200, -250 Series
E868186-4	Seal Assembly, Rotating	GTCP331 -200, -250 Series
E3827135-1	Cover, Deswirl	GTCP331-500 Series
3827041-1E	Gear, Sector, Spur	GTCP331-500 Series
3827076-3E	Inlet Guide Vane	GTCP331-500 Series
3827140-2E	Vane Assembly	GTCP331-500 Series
3827141-2E	Deswirl	GTCP331-500 Series
3827179-3E	Inlet Guide Vane	GTCP331-500 Series
3844467-1E	Static Ring Seal	GTCP331-500 Series
3844481-2E	Shroud Segment, 1 st Stage Turbine	GTCP331-500 Series
3844514-1E	Turbine Seal	GTCP331-500 Series
E3600604-2	Oil Shaft	TSCP 700 Series
E3604912-6	Blade, HP Turbine Rotor	TSCP 700 Series
E3604714-1	Vane, LPC, 3 rd Stage	TSCP 700 Series
E3614183-2	Blade, LPC 1 st Stage	TSCP 700 Series
E969603-3	Vane, LPC, 1 st stage	TSCP 700 Series
E969604-5	Vane, LPC, 2 nd Stage	TSCP 700 Series
E969650-1	Blade, LPC 1 st Stage	TSCP 700 Series
E969651-1	Blade, LPC 3 rd Stage	TSCP 700 Series
E976866-4	Shroud Segment, High Pressure Turbine	TSCP 700 Series
E3611904-1	Turbine Shroud	GTCP 85 Series
E3846484-3	Nozzle, Turbine	GTCP 85 Series
E3846484-4	Nozzle, Turbine	GTCP 85 Series

T-501 Inspection Limits and Repair

Part Number	Name	APU Model (Reference only)
E3846484-7	Nozzle, Turbine	GTCP 85 Series
E3846484-8	Nozzle, Turbine	GTCP 85 Series
E663017-4	Body, Valve	GTCP 85 Series
E693472-1	Bushing	GTCP 85 Series
E693472-2	Bushing	GTCP 85 Series
E693472-3	Bushing	GTCP 85 Series
E693472-4	Bushing	GTCP 85 Series
E693472-5	Bushing	GTCP 85 Series
E693472-8	Bushing	GTCP 85 Series
E693472-11	Bushing	GTCP 85 Series
E693472-25	Bushing	GTCP 85 Series
E693473-1	Bushing	GTCP 85 Series
E693473-2	Bushing	GTCP 85 Series
E693473-3	Bushing	GTCP 85 Series
E693473-4	Bushing	GTCP 85 Series
E693473-5	Bushing	GTCP 85 Series

Extex has also issued the following unique ICA documents:

T-301	E3611904-1	Turbine Shroud
T-401	E3840004-5	1 st Stage Turbine Blade
T-401	E3840008-2	2 nd Stage Turbine Blade
T-402	E3826099-X	Inlet Guide Vane
T-404	E3840008-2	2 nd Stage Turbine Blade
T-601	3840223-4E, E3840282-3	1 st Stage Turbine Blades

Both the OEM instructions and the T-documents listed above are approved for use. For P/N EN3826099-X, Inlet Guide Vane, Nickel, contact your Extex representative for instructions.