

Turbine Power Technologies, Inc.

1340 Flightline Blvd. DeLand, FL 32724 Tel: 386-873-2982 www.turbinepowertech.com Email: Turbinepowertech@yahoo.com



300 Hour Inspection Sheet

- ☐ Remove torches and check for cracks
- ☐ Check thermocouples (D- From .1 to 2.5Ω) (E- From .7 to 1.4Ω individual)
- ☐ Borescope inspection of compressor turbine, power Turbine, compressor turbine nozzle, inner and outer combustion chamber, stator lug supports and first stage compressor.
- ☐ Drain oil
- ☐ Check front and rear chip detectors (confirm light works)
- ☐ Replace or sonic clean main oil filter
- ☐ Remove 4 screen filters and check for metal or FOD
- ☐ Clean magnet on oil drain
- ☐ Add oil (Fill to max on dipstick, cold cycle turbine and fill to max, check again after start)
- ☐ Check spark plugs
- ☐ Check spark plug wires
- ☐ Check spark plug regulators (If applicable)
- ☐ Test igniters Left and Right
- ☐ Check for oil leaks
- ☐ Clean propeller governor, lubricate cables, joints and slides
- ☐ Check beta block
- ☐ Remove propeller blades from hub and check for corrosion
- ☐ Check propeller bolts
- ☐ Check for corrosion on propeller
- ☐ Check propeller clamps
- ☐ Check spinner and bolts
- ☐ Remove starter generator
- ☐ Remove starter generator brushes and check. Spin commutator and check bearings. Check and clean spline. Copper slip or anti-seize spline
- ☐ Reinstall starter generator

- ☐ General inspection of all nuts, bolts, locking wire, engine mounts, cables, connections, oil leaks and electrics
- ☐ Remove and check mechanical fuel pump filter
- ☐ Clean Fuel Control Unit and lubricate joints and slides
- ☐ Bleed Fuel Control Unit (4 ports start lowest to top)
- ☐ Check blow-off valve, if necessary, remove and clean
- ☐ Check Isolating valve (ISOL-EMG Throttle)
- ☐ Check fuel pressure Min 18 PSI - Max 45 PSI (Preferred 28-32 PSI)
- ☐ Check oil pressure Min 30- Max 39
- ☐ Check N1 at idle Min 60%- Max 63%
- ☐ Check N1 for drop if boost pump turned off (If more than 3% bleed FCU again)
- ☐ Check voltage during start Min 20 volts.
- ☐ Check charging of generator
- ☐ Check ITT at idle 480 to 520 +-
- ☐ Check after shut down for irregular bearing noise from compressor and power turbine
- ☐ Check for cracks on exhausts
- ☐ Check drains on fuel pump, Fuel Control Unit, hot section and EPA can.
- ☐ Start turbine and check parameters through first and second stage of start
- ☐ Perform engine spectrum analysis.
- ☐ Balance propeller.

Note: Airframe fuel filter must be 10 micron or better