

SECTION 3

EMERGENCY PROCEDURES

NOTE: The engine is equipped with an NTS (Negative Torque Sensor) system, which automatically moves the propeller blades toward a high pitch position in the event of an engine failure, and thus reduces propeller drag, although the drag is slightly higher than for a feathered propeller.

Engine Failure

1. Power Lever - Full Forward.

Airstart from Feather

1. Altitude - Below 20,000 feet.
2. Air Speed - 92 to 200 knots. (MPH 105.9 to 230.)
3. EGT - Below 200°C.
4. RPM - Less than 10%.
5. Power Lever - About one inch forward of FLIGHT-IDLE.
6. Engine Speed Lever - High RPM.
7. Fuel Boost Pump Switch - ON.
8. Unfeathering Pump - ON to unfeather propeller.
CAUTION: Do not engage starter during airstart, because the high torque requirements of a feathered propeller will damage the starter.
9. Fuel and Ignition Switch - ON at 10% RPM (normally automatic).
10. Start Fuel Pressure Regulator - ON until engine light off. Use as required to maintain satisfactory engine acceleration.
11. EGT - Should indicate combustion at 10 to 20% RPM. If not indicated by 25% RPM, abort the start by placing the engine run switch to OFF.
CAUTION: The start limit of 815°C EGT must be observed.

Aborted Air Start

1. Engine stop switch - STOP.
2. Power Lever - Full Forward.
3. If due to no combustion attained, reduce altitude and airspeed if possible before attempting another air start.
4. If due to high EGT, reduce altitude and increase airspeed if possible before attempting another air start.

SECTION 3

Aborted Ground Start (due to no combustion)

1. ENGINE stop switch - STOP - Master Switch - OFF.
2. Follow normal start procedure.

Power-Plant Control Malfunction

Should there be an indication of improper operation of the fuel control or propeller control, it is recommended that the handling characteristics of the aircraft be checked by a simulated landing flare at a safe altitude before landing is attempted.

Engine Fire in Flight

1. Fuel tank shutoff - CLOSED.
2. Generator switch - OFF.
3. Master switch - OFF.

Engine Fire on GROUND

1. Fuel tank shutoff - CLOSED.
2. Generator - OFF.
3. Master Switch - OFF.

Erratic Torque Indication

If an abrupt loss or an excessive fluctuation of torque indication occurs (± 4 psi, or ± 7.5 per cent), verify that fluctuation is not indication only by looking for fluctuation in other engine gages. Initiate a precautionary landing and determine cause of torque loss or fluctuation.