

ENGINE START LIMITS

GENERAL

Amber ENGINE CTRL SYS FAULT message displayed Engine start prohibited
 Maximum ambient temperature for engine start Refer to Figure 2-110-2
 Generator switches ON for engine starts

NOTE

Time to light-off is defined as the time from first indication of fuel flow until an ITT increase is observed.

Maximum time to light-off 10 seconds (ground starts only)
 Minimum time prior to power increase above 80% N2 2 minutes

Refer to Section II, Operating Limitations, START CYCLE LIMITS and BATTERY LIMITS for additional limits associated with engine starting.

GROUND STARTS

Maximum elevation for battery or cross generator starts 14,000 Feet
 Maximum tailwind component. 19 Knots
 Maximum crosswind component. 19 Knots
 Minimum battery voltage for battery start 24 VDC

CAUTION

Normal starter current draw is approximately 1100 amperes peak. External power units with variable maximum current shutoff should be set to 1200 amperes. Use of an external power source with voltage in excess of 29VDC or current in excess of 1200 amps may damage the starter or gearbox.

Minimum/maximum external power current capacity for start. 800/1200 AMPS

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