

# Starter Duty Cycle

## Information

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### GENERAL INFORMATION:

The starting circuit is designed to carry high current with a minimum loss of voltage. A typical circuit includes the battery, solenoid starting switch, manual starting switch, starter, the aircraft connecting wiring and structure. The starter cranks the engine for starting while the battery supplies the power. The engine does not always start on the first attempt so significant heat is generated in starter components which require a limitation to the number of cycles which can be made before a cool down period must be applied, this is called the "Duty Cycle". The information below indicates the type starter and the requirements for each.

### SERVICE INFORMATION:

#### Duty Cycle:

**Heavy weight** Kelly Aerospace Energy Systems (or Prestolite) starters.

Engage starter for 10 seconds of power (start), 60 seconds cool down (rest) then 10 seconds of power (start), 60 seconds cool down (rest), 10 seconds of power (start) then 15 minutes cool down before next start attempt.

**Light weight** Kelly Aerospace Energy Systems (Magnaflite) starters.

Engage starter for 10 seconds of power (start), 60 seconds cool down (rest) then 10 seconds of power (start), 60 seconds cool down (rest), 10 seconds of power (start) then 15 minutes cool down before next start attempt.

**E, X, & M-Drive** Kelly Aerospace Energy Systems starters.

Engage starter for 10 seconds of power (start), 20 seconds cool down (rest) for up to 20 starts then 10 minutes cool down before next start attempt.

