

**DESCRIPTIVE DATA**

**NOTE**

M-1285 thru M-2178 are 14-volt systems. The battery switch is placarded BATTERY & ALT and the alternator switch is placarded ALT (or ALT FIELD). 28-volt systems, M-2179 and after, are placarded BATTERY for the battery switch and ALT FIELD for the alternator switch. All items throughout this handbook that refer to battery switch refer to either BATTERY & ALT switch or BATTERY switch depending upon configuration.

**ENGINE**

Airplane is equipped with an Avco Lycoming O-360-A2G, O-360-A4G, O-360-A4J or O-360-A4K engine rated at 180 horsepower.

Take-off and maximum continuous operation (sea level):  
2700 rpm, full throttle.

Engine cooling has been demonstrated for a 100° F day.

**PROPELLER**

Sensenich M76EMMS-0-60 or 76EM8S5-0-60 fixed pitch, two blade propeller. Static rpm at maximum permissible throttle settings: Not over 2350 rpm and not under 2250 rpm. No additional tolerance permitted.

**FUEL**

Aviation Gasoline 91/96 (blue) minimum grade or 100 (green) or 100LL (blue).

*M-1285 thru M-1516:*

\*59.8-gallon system

(29.9 gallons each tank) . . . . . \*58 gallons usable

Each tank has provisions for partial filling to:

20 gallons each tank . . . . . 38.2 gallons usable

15 gallons each tank . . . . . 28.2 gallons usable

**FUEL QUANTITY**

On M-1517 thru M-1879 except M-1875, or prior air-planes after compliance with S.I. No. 0624-281

Yellow Band ..... E to 3/8 full

On M-1875, M-1880 and after

Yellow Band ..... E to 1/3 full

**WEIGHT LIMITS**

**NORMAL CATEGORY**

Maximum Ramp Weight ..... 2455 lbs

Maximum Take-off

and Landing Weight ..... 2450 lbs

Zero Fuel Weight ..... No Structural Limitation

Maximum Baggage Compartment

Load ..... 270 lbs

**UTILITY/ACROBATIC CATEGORY**

Maximum Ramp Weight ..... 2035 lbs

Maximum Take-off

and Landing Weight ..... 2030 lbs

Zero Fuel Weight. .... No Structural Limitation

Maximum Baggage Compartment

Load (Utility Category Only) ..... 270 lbs

**CENTER OF GRAVITY LIMITS**

**NORMAL CATEGORY**

Forward: 107.8 inches aft of datum to 1800 lbs with straight line variation to 114.5 inches at 2450 lbs.

Aft: 118.3 inches aft of datum at all weights.