

PILOT'S OPERATING HANDBOOK

 1977

150 Commuter

CESSNA MODEL 150M



PERFORMANCE-
SPECIFICATIONS

CESSNA
MODEL 150M

PERFORMANCE - SPECIFICATIONS

SPEED:

Maximum at Sea Level109 KNOTS
Cruise, 75% Power at 7000 Ft106 KNOTS

CRUISE: Recommended Lean Mixture with fuel allowance for
engine start, taxi, takeoff, climb and 45 minutes
reserve at 45% power.

75% Power at 7000 Ft	Range	340 NM
22.5 Gallons Usable Fuel	Time	3.3 HRS
75% Power at 7000 Ft	Range	580 NM
35 Gallons Usable Fuel	Time	5.5 HRS
Maximum Range at 10,000 Ft	Range	420 NM
22.5 Gallons Usable Fuel	Time	4.9 HRS
Maximum Range at 10,000 Ft	Range	735 NM
35 Gallons Usable Fuel	Time	8.5 HRS

RATE OF CLIMB AT SEA LEVEL670 FPM
SERVICE CEILING14,000 FT

TAKEOFF PERFORMANCE:

Ground Roll735 FT
Total Distance Over 50-Ft Obstacle1385 FT

LANDING PERFORMANCE:

Ground Roll445 FT
Total Distance Over 50-Ft Obstacle1075 FT

STALL SPEED (CAS):

Flaps Up, Power Off48 KNOTS
Flaps Down, Power Off42 KNOTS

MAXIMUM WEIGHT.1600 LBS

STANDARD EMPTY WEIGHT:

Commuter1111 LBS
Commuter II1129 LBS

MAXIMUM USEFUL LOAD:

Commuter489 LBS
Commuter II471 LBS

BAGGAGE ALLOWANCE.120 LBS

WING LOADING: Pounds/Sq Ft10.0

POWER LOADING: Pounds/HP.16.0

FUEL CAPACITY: Total

Standard Tanks26 GAL.
Long Range Tanks38 GAL.

OIL CAPACITY.6 QTS

ENGINE: Teledyne ContinentalO-200-A
100 BHP at 2750 RPM

PROPELLER: Fixed Pitch, Diameter69 IN.

SECTION 1
GENERAL

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Fuel Capacity:

Standard Tanks:

Total Capacity: 26 gallons.
Total Capacity Each Tank: 13 gallons.
Total Usable: 22.5 gallons.

Long Range Tanks:

Total Capacity: 38 gallons.
Total Capacity Each Tank: 19 gallons.
Total Usable: 35 gallons.

NOTE

Due to cross-feeding between fuel tanks, the tanks should be re-topped after each refueling to assure maximum capacity.

OIL

Oil Grade (Specification):

MIL-L-6082 Aviation Grade Straight Mineral Oil: Use to replenish supply during first 25 hours and at the first 25-hour oil change. Continue to use until a total of 50 hours has accumulated or oil consumption has stabilized.

NOTE

The airplane was delivered from the factory with a corrosion preventive aircraft engine oil. This oil should be drained after the first 25 hours of operation.

Continental Motors Specification MHS-24A, Ashless Dispersant **Oil:**

This oil must be used after first 50 hours or oil consumption has stabilized.

Recommended Viscosity For Temperature Range:

SAE 40 above 4°C (40°F).
SAE 10W30 or SAE 20 below 4°C (40°F).

NOTE

Multi-viscosity oil with a range of SAE 10W30 is recommended for improved starting in cold weather.

Oil Capacity:

Sump: 6 Quarts.
Total: 7 Quarts (if oil filter installed).

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SECTION 2
LIMITATIONS

- (3) Near fuel shut-off valve (standard tanks):

FUEL - 22.5 GALS - ON-OFF

- Near fuel shut-off valve (long range tanks):

FUEL - 35.0 GALS - ON-OFF

- (4) Near fuel tank filler cap (standard tanks):

FUEL
80/87 MIN. GRADE AVIATION GASOLINE
CAP. 13 U.S. GAL.

- Near fuel tank filler cap (long range tanks):

FUEL
80/87 MIN. GRADE AVIATION GASOLINE
CAP. 19 U.S. GAL.

- (5) On the instrument panel near over-voltage light:

HIGH VOLTAGE