

PERFORMANCE - SPECIFICATIONS

ONE FIFTY	STANDARD AND TRAINER	COMMUTER
GROSS WEIGHT	1600 lbs	1600 lbs
SPEED:		
Top Speed At Sea Level	123 mph	125 mph
Cruise, 75% Power at 7500 ft	120 mph	122 mph
RANGE:		
Cruise, 75% Power at 7500 ft	480 mi	490 mi
22.5 Gallons, No Reserve	4.0 hrs	4.0 hrs
	120 mph	122 mph
Cruise, 75% Power at 7500 ft	745 mi	760 mi
Long Range Version, 35.0 Gallons	6.2 hrs	6.2 hrs
	120 mph	122 mph
Optimum Range at 10,000 ft	560 mi	565 mi
22.5 Gallons, No Reserve	5.7 hrs	5.7 hrs
	98 mph	99 mph
Optimum Range at 10,000 ft	870 mi	885 mi
Long Range Version, 35.0 Gallons	8.9 hrs	8.9 hrs
	98 mph	99 mph
RATE OF CLIMB AT SEA LEVEL	670 fpm	670 fpm
SERVICE CEILING	12,650 ft	12,650 ft
TAKE-OFF:		
Ground Run	735 ft	735 ft
Total Distance Over 50-ft Obstacle	1385 ft	1385 ft
LANDING:		
Landing Roll	445 ft	445 ft
Total Distance Over 50-ft Obstacle	1075 ft	1075 ft
EMPTY WEIGHT: (Approximate)	Standard	Trainer
With Standard Fuel Tanks	970 lbs	1000 lbs
With Long Range Fuel Tanks	975 lbs	1005 lbs
BAGGAGE	120 lbs	120 lbs
WING LOADING: Pounds/Sq Foot	10.2	10.2
POWER LOADING: Pounds/HP.	16.0	16.0
FUEL CAPACITY:		
Total (Standard Tanks)	26 gal.	26 gal.
Total (Long Range Tanks)	38 gal.	38 gal.
OIL CAPACITY: Total	6 qts	6 qts
PROPELLER: Fixed Pitch (Diameter)	69 inches	69 inches
ENGINE: Continental Engine	O-200A	O-200A
100 rated HP at 2750 RPM		

Section

ONE FIFTY

II

DESCRIPTION AND OPERATING DETAILS

The following paragraphs describe the systems and equipment whose function and operation is not obvious when sitting in the airplane. This section also covers in somewhat greater detail some of the items listed in Check List form in Section I that require further explanation.

FUEL SYSTEM.

Fuel is supplied to the engine from two tanks, one in each wing. From these tanks, fuel flows by gravity through a fuel shutoff valve and fuel strainer to the carburetor.

Refer to figure 2-1 for fuel quantity data. For fuel system service information, refer to Lubrication and Servicing Procedures in Section IV.

FUEL STRAINER DRAIN KNOB.

Refer to fuel strainer servicing procedure, Section IV.

FUEL QUANTITY DATA (U.S. GALLONS)			
TANKS	USABLE FUEL ALL FLIGHT CONDITIONS	UNUSABLE FUEL	TOTAL FUEL VOLUME
TWO, STANDARD WING (13 GAL. EACH)	22.5	3.5	26.0
TWO, LONG RANGE WING (19 GAL. EACH)	35.0	3.0	38.0

Figure 2-1.