

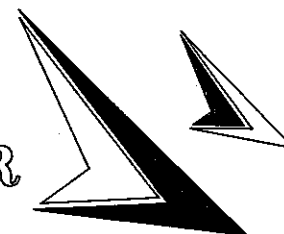
the

CHEROKEE

235

Owner's Handbook

PIPER



**Piper Aircraft Corporation, Vero Beach, Florida
U.S. A.**

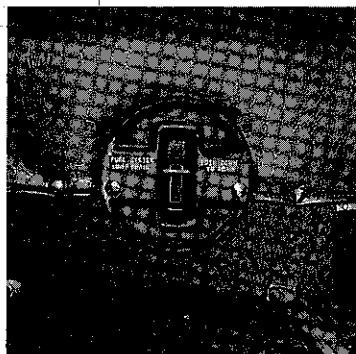
ation required in normal turns.

The flaps are manually operated, balanced for light operating forces and spring loaded to return to the up position. A past-center lock incorporated in the actuating linkage holds the flap when it is in the up position so that it may be used as a step on the right side. The flap will not support a step load except when in the full up position, so it must be completely retracted when used as a step. The flaps have three extended positions, 10, 25 and 40 degrees.

FUEL SYSTEM

Standard fuel capacity of the Cherokee is 84 gallons, all of which is usable except for approximately one pint in each of the four tanks. The two main inboard tanks, which hold 25 gallons each, are attached to the wing structure with screws and nutplates and may be easily removed for service or inspection. The tip tanks are constructed of resin-impregnated fiberglass and hold 17 gallons each.

The fuel selector control is located below the center of the instrument panel on the sloping face of the control tunnel. It has five positions corresponding to each of the four tanks plus an "OFF" position. For all operations the tip tanks should be used last. When using less than the standard 84 gallon capacity of the tanks, it is recommended the tip tanks be filled



Strainer Drain Lever

first and then regulate the fuel load by varying the amount of fuel in the inboard tanks.

Each fuel tank is equipped with an individual quick drain located at the lower inboard rear corner of the tank. The fuel strainer and a system quick drain valve are located in the fuselage at the lowest point of the fuel system. This strainer should be drained regularly to avoid the accum-

ulation of water or sediment. The drain valve is operated by pressing DOWN on the lever located on the right hand side of the cabin below the forward edge of the rear seat.

Fuel quantity gauges for each of the four tanks are located in the engine gauge cluster on the right side of the instrument panel. A fuel pressure indicator is also incorporated in the engine gauge cluster.

Dual electric fuel pumps are provided for use in case of failure of the engine-driven pump. The electric pumps operate from a single switch and should be "ON" for all take-offs and landings.

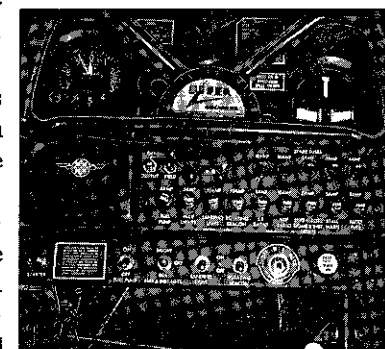
ELECTRICAL SYSTEM

The Cherokee is equipped with the Piper F.T.P. (Full Time Power) Electrical System. Its 12 volt alternator provides electrical power at all engine speeds and results in improved performance for radio and electrical equipment and longer battery life.

In addition to the alternator, the electrical system includes a 25 ampere-hour battery, a voltage regulator and a master switch relay. The battery and relay are mounted immediately aft of the baggage compartment. Access for service or inspection is obtained through a removable panel adjacent to the baggage door. The battery box is designed to accommodate a larger capacity battery for extreme cold weather operation.

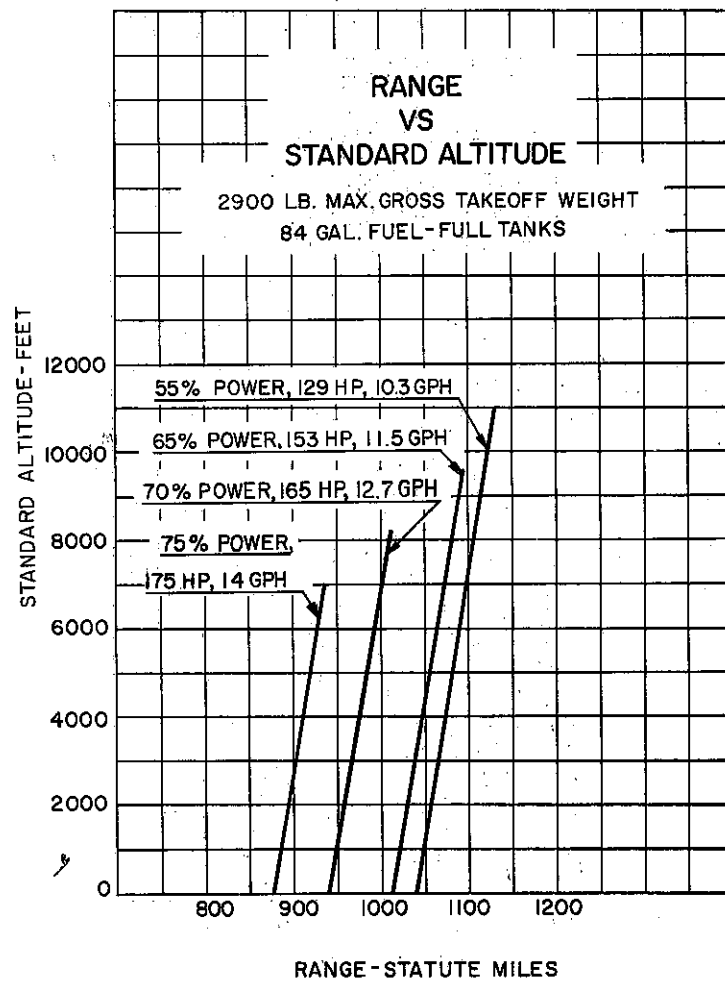
Electrical switches, fuses and fuse spares are located on the lower left side of the instrument panel.

Standard electrical accessories, in addition to those already listed, include a starter, stall warning indicator, cigar lighter and ammeter. Navigation lights,



Electrical Switches

PIPER CHEROKEE PA-28-235



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