

(ii) The position indicator pointer must be located at the part of the handle that is the maximum dimension of the handle measured from the center of rotation.

(2) For electrical or electronic fuel selector:

(i) Digital controls or electrical switches must be properly labelled.

(ii) Means must be provided to indicate to the flight crew the tank or function selected. Selector switch position is not acceptable as a means of indication. The "off" or "closed" position must be indicated in red.

(3) If the fuel valve selector handle or electrical or digital selection is also a fuel shut-off selector, the off position marking must be colored red. If a separate emergency shut-off means is provided, it also must be colored red.

[Doc. No. 4080, 29 FR 17955, Dec. 18, 1964, as amended by Amdt. 23-7, 34 FR 13092, Aug. 13, 1969; Amdt. 23-33, 51 FR 26656, July 24, 1986; Amdt. 23-51, 61 FR 5136, Feb. 9, 1996]

§ 23.779 Motion and effect of cockpit controls.

Cockpit controls must be designed so that they operate in accordance with the following movement and actuation:

(a) Aerodynamic controls:

Motion and effect

(1) *Primary controls:*

- Aileron Right (clockwise) for right wing down.
- Elevator Rearward for nose up.
- Rudder Right pedal forward for nose right.

(2) *Secondary controls:*

- Flaps (or auxiliary lift devices). Forward or up for flaps up or auxiliary device stowed; rearward or down for flaps down or auxiliary device deployed.

Trim tabs (or equivalent).

Motion and effect

Switch motion or mechanical rotation of control to produce similar rotation of the airplane about an axis parallel to the axis control. Axis of roll trim control may be displaced to accommodate comfortable actuation by the pilot. For single-engine airplanes, direction of pilot's hand movement must be in the same sense as airplane response for rudder trim if only a portion of a rotational element is accessible.

(b) Powerplant and auxiliary controls:

Motion and effect

(1) *Powerplant controls:*

- Power (thrust) lever. Forward to increase forward thrust and rearward to increase rearward thrust.
- Propellers Forward to increase rpm.
- Mixture Forward or upward for rich.
- Fuel Forward for open.
- Carburetor, air heat or alternate air. Forward or upward for cold.
- Supercharger Forward or upward for low blower.
- Turbosuperchargers. Forward, upward, or clockwise to increase pressure.
- Rotary controls. Clockwise from off to full on.

(2) *Auxiliary controls:*

- Fuel tank selector. Right for right tanks, left for left tanks.
- Landing gear Down to extend.
- Speed brakes Aft to extend.

[Amdt. 23-33, 51 FR 26656, July 24, 1986, as amended by Amdt. 23-51, 61 FR 5136, Feb. 9, 1996]

§ 23.781 Cockpit control knob shape.

(a) Flap and landing gear control knobs must conform to the general shapes (but not necessarily the exact sizes or specific proportions) in the following figure: