

Proper tension for the rudder cables.

- > The Luscombe has no tension specification for the control circuits. In
- > the case of the rudder circuit, the "tension" is determined by the size
- > of the return spring attaching it to the firewall, since the cable runs
- > from the (hinged) rudder bar to the aileron horn, and the rudder pedal
- > is kept upright by the spring attached at the firewall. The cable
- > length is determined and adjusted so that the pedal bottoms on the
- > firewall at the same time that the rudder reaches maximum deflection as
- > specified in the TCDS.
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- > Ailerons are adjusted so that a sudden reversal results in a slap of the
- > cable in the leading edge. The elevator and trim are the only cables
- > forming a closed loop where tension might be specified, but the manuals
- > simply require those to be taught and without any extra play in the
- > control motion.