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Service Letter: June 12, 2006

Subject: RV-10 fuselage tunnel temperature

Affected Models: RV-10 only

A number of RV-10 operators have reported abnormally high cabin tunnel temperatures. This is the tunnel between the pilot and copilot seats. It houses the rudder cables, fuel selector, fuel lines and heater ducts. This condition is primarily caused by radiant heat from the firewall and the bottom fuselage skin.

Either of the following corrective actions will help reduce the tunnel temperature and both are reversible for winter operations:

- Installation of insulation in the tunnel against the interior of the firewall and floor inside the tunnel. A firewall type insulation or any fire resistant 'batting' type insulation would work nicely for this.
- Provide a cold air bypass to one of the heat shuttles (TG-10's). A 2" diameter aluminum "Y" can be inserted into the scat tube on the cold air side of one of the exhaust heat muffs. This "Y" splits and directs part of the incoming cold air to the heat muff to keep it cool. The other leg of the "Y" is connected to the cabin heat shuttle in place of the original output of the exhaust heat muff. The result is that the selected heat shuttle is supplied cold air only.