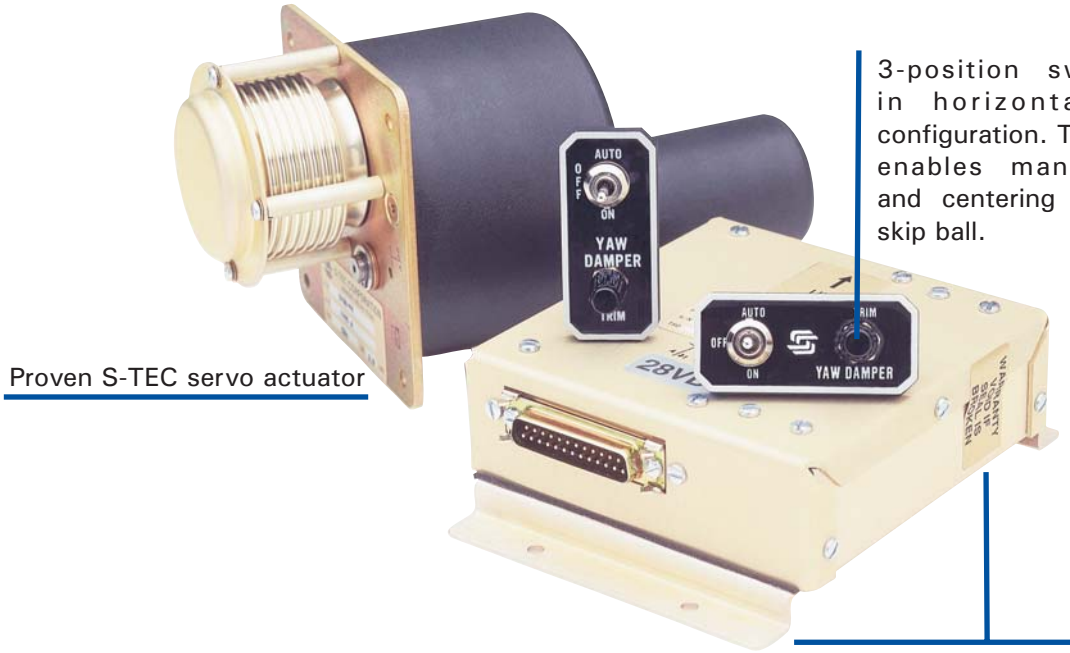
S-TEC

Flight Control Products and Systems

Yaw Damper

Low cost, light weight, accelerometer sensor technology
for optimum performance.



Proven S-TEC servo actuator

3-position switch available in horizontal or vertical configuration. Trim potentiometer enables manual adjustment and centering of the skid and skip ball.

Remote-mounted sensor/computer/servo amplifier; solid state design with virtually no moving parts. Accelerometer moves only 0.020" for each G of acceleration.

Features/Functions

- panel-mounted on/off switch; horizontal or vertical configuration.
- rudder trim control
- remote-mounted sensor/computer/servo amplifier
- single accelerometer sensor
- automatic on/off mode integrated with a roll and/or pitch autopilot
- see reverse side for operational information.

Specifications

- System Weight (incl. servo actuator) – 3.8 lbs.
- Power Requirements – 14 or 28 VDC; 1.0 amps average,
- 3.0 amps maximum
- FAA TSO – C9c

Yaw Damper Operation

The S-TEC yaw damper's innovative design replaces the commonly used rate gyro with a highly accurate accelerometer, which virtually eliminates moving parts, except for the servo actuator. The accelerometer moves only 0.020" for each G of acceleration.

This revolutionary system substantially improves autopilot performance, as it senses both skid-and-slip in a single sensor, rather than the two sensors required in other systems. And also unlike other yaw dampers, the S-TEC Yaw Damper offers a trim potentiometer that allows centering of the skid-and-slip ball.

Exclusive with the S-TEC Yaw Damper are two modes of operation. With its unique 3-position switch in "AUTO" the yaw damper automatically activates when the autopilot is engaged. In the "ON" position, it operates independently, whether or not the autopilot is engaged. And it can be turned off by putting the switch in the "OFF" position. "OFF" position.

The S-TEC Yaw Damper is approximately ½ the size and weight of other systems, and approximately ½ the price, yet provides unequaled precision and performance. The compact size of this fully TSO'd system reduces weight, space and power requirements for efficient installation and performance.

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