

PITOT/STATIC SYSTEM - ADJUSTMENT/TEST

1. General

A. This section has procedures to do a test of the pitot and static systems.

2. Equipment

NOTE: Equivalent equipment may be substituted for that listed below.

NAME	NUMBER	MANUFACTURER	USE
Air Data Tester	101-00184	Barfield 4101 NW 29th Street Miami, FL 33142-5617	To supply pressure or vacuum for the pitot and static system tests.
Pitot Static Test Adaptor	PS4769	Nav-Aids Ltd. 2955 Diab Street Montreal, Quebec H4S 1M1	To attach portable air data tester to pitot system.

3. Overspeed Pressure Switch Operational Test

A. Do an Overspeed Pressure Switch Operational Test.

- (1) Engage the AIR SPEED WARN circuit breaker.
- (2) Put a cover on the drain hole on the pitot tube.
- (3) Install a very low pressure air source on the end of the pitot tube.
- (4) Slowly increase the pressure and make sure that the airspeed warning horn gives off an audible sound at 178 KIAS, +3 or -3 KIAS.
- (5) Slowly decrease the pressure and make sure that the airspeed warning horn sound stops at 178 KIAS, +3 or -3 KIAS.
- (6) Return the pitot/static system to field elevation and disconnect the pitot/static tester.
- (7) Remove the cover from the drain hole on the pitot tube.

4. Pitot System Inspection and Leak Test

A. Do a Leak Test of the Pitot System.

- (1) Put a piece of rubber or plastic tubing over the pitot tube.
- (2) Close the opposite end of the rubber or plastic tubing and slowly roll the tubing up until the airspeed indicator shows within the cruise range.
- (3) Close the tubing and, after a few minutes, examine the airspeed indicator.
 - (a) If there is a leak present, the system pressure and airspeed indication will be decreased.
 - (b) Examine all the connections and tighten them as necessary.
- (4) Slowly unroll the tubing, gradually decrease the pressure.

CAUTION: Make sure that the pressure is gradually decreased to prevent damage to the instrument.

- (5) Remove the tubing from the pitot tube.