

## 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.