

**AIR DATA ACCESSORIES KIT**  
**MODEL No. ADAMD80-612**  
**McDONNELL DOUGLAS**  
**MD-80 & MD-90 AIRCRAFT**



## AIR DATA ACCESSORIES KIT MODEL No. ADAMD80-612 MD-80 & MD-90 AIRCRAFT

**- Proprietary Information -**

This kit contains all the equipment required to test from source the complete pitot and static air data system on the MD-80 & MD-90 aircraft, as well as the means of pre-testing all adaptors and hoses prior to being fitted to the aircraft.

### **Pitot Test Adaptor**

#### **Part No. P15589M1-3 (3 req'd.)**

These units fit the pitot probes 851AK located on the nose of the aircraft and when installed they will test each system separately or simultaneously.

### **Pre-Test Probe**

#### **Part No. PT11558M1 (3 req'd.)**

When it becomes necessary to test the integrity of the pitot adaptors and/or hoses and test set prior to being fitted to aircraft system, these units are installed into the pitot adaptors thus simulating the pitot head.

### **Static Test Adaptor**

#### **Part No. 33410SAS-90-4 (5 req'd.)**

These units are shipped attached to the static test hose assembly. To install, fully depress plunger, insert into centre hole of static vent and release plunger. A slight rotation motion in each direction ensures a good seal. This unit is self-sealing, locking, aligning and testing as the protective cap on the mandril doubles as a pre-test unit. To remove from static vent, fully depress plunger and withdraw. Replace pre-test cap.

The first dash number identifies the size of hole in centre of the static vent and the last dash number identifies the fitting size (-4 indicates 1/4" hose size).

### **Static Blanking Adaptor**

#### **Part No. 33410SAS-90B (5 req'd.)**

These units are stowed in the transit case cover. When static system is to be tested, one of these units is fitted to the appropriate static vent located on the opposite side of the aircraft, in order to enclose the system being tested. These units are inserted and removed in the same fashion as the test adaptors.

### **Pitot Test Hose Assembly**

#### **Part No. 757-133 (3 req'd.)**

Three of these assemblies are included in the kit and are connected to the pitot adaptor from the designated outlet on the control console and may be selected as required. Hoses are color coded at each end.

### **Pitot Input Hose Assembly**

#### **Part No. 757-214 (1 req'd.)**

This assembly is used to connect the pitot outlet of the pneumatic generator to the pitot inlet located on the right hand side of the top panel of the control box.

### **Static Test Hose Assembly**

#### **Part No. 767-212 (5 req'd.)**

Five of these assemblies are supplied with the kit. A 33410SAS-90-4 test adaptors is attached to each hose assembly for convenience of use. The adaptors to blank off opposite vent being stowed in the case cover.

### **Static Input Hose Assembly**

#### **Part No. 757-211 (1 req'd.)**

This assembly is used to connect the static outlet of the pneumatic generator to the connection on the left handside of the top panel of the control console.

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### **Vacu-Grip Assembly**

#### **Part No. 421-8971 (1 req'd.)**

One of these units is supplied with each kit to provide a means of support for static system test hose assemblies and to protect against such hazards as work stands, vehicles, etc. during test.

### **Pitot & Static System**

#### **Control Console**

#### **Part No. 421-MD80 (1 req'd.)**

This unit contains all necessary inlets and outlets required to connect the pneumatic generator and the adaptors and hoses to the aircraft sensing system. An instant acting control valve is supplied for each outlet. These valves are shut-off when the handle is in the vertical position. The static systems input and output connections and control valves are located on the left side of the panel whilst the pitot system connection and control valves are located on the right side. All inlets etc. are identified on the photo etched panel. A facility for testing two pairs of static adaptors simultaneously is provided on the top panel. The hoses connected to console and adaptors are color coded at each end for easy system identification.

**N.B. Valves should remain in selected position during entire test.**

### **Lubricating Fluid**

#### **Part No. LF5050 (1 req'd.)**

This fluid is used to lubricate the glands of the pitot & dual static and pitot static test adaptors.

Only a very small amount is needed to lubricate the adaptor's interior glands before installing the adaptors onto the aircraft probes.

This process will help to prolong the life of the seals as well as facilitate a smooth installation of the applicable adaptor onto the corresponding aircraft probe.

Using only 1 or 2 drops, apply a thin film coating onto the surface of the applicable Pre-Test Probe(s).

Then, while using a slight CW/CCW rotation, insert the Pre-Test Probe into the adaptor when setting-up for the 'Pre-Test' stage of the ADTU before hooking up to the aircraft's probes.

***WARNING: Nav-Aids Ltd. ® P/N LF5050, Lubricating Fluid, is the only approved lubricant for this purpose. The use of any other substance may very well have adverse effects that could contribute to a Flight Safety Hazard.***

#### **Seal - Part No. 589-171M1 (3 req'd.)**

Three spare seals for pitot adaptors are supplied with the kit and stowed in the case.

#### **Seal - Part No. 334-.650 (5 req'd.)**

Five spare seals for static test & static blanking adaptors are supplied with the kit and stowed in the case.

#### **Manual - Part No. 444-MD80**

One manual is supplied with each kit.

The equipment is enclosed in a case assembly **Model No. NANUK960-MD80.**

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**Customer Support**

For information or to order replacement parts for this kit or for other types of aircraft, please contact us:

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