



## **AIR DATA ACCESSORIES KIT MODEL No. ADA310-947 AIRBUS A310 & A300 AIRCRAFT**

For Standard & RVSM Testing

**- Proprietary Information -**

### **Description**

The kit contains the required test adaptors and hoses to connect the air data test set to the pitot tubes and static ports of the aircraft, to enable the performance of air data tests on the main and stand-by air data system of the Airbus A310 and A300-600 aircraft. This is as per the Airbus Aircraft Maintenance Manual.

#### **RVSM Testing**

This kit also contains the required additional adaptors and hoses to perform an air data test to Reduced Vertical Separation Minima rules (RVSM), as per the Airbus Aircraft Maintenance Manual. The RVSM test procedures suggest the simultaneous connection of all main and stand-by static ports on both sides of the aircraft fuselage. This differs from the standard air data test, where only one static port per system is connected and the opposite side is blanked. The RVSM test procedures also require the simultaneous connection of all three pitot tubes. The additional required hoses are included in this kit.

### **Pitot Test Adaptor**

#### **P/N P74418-3 (3 req'd)**

These adaptors have been designed to fit pitot probes P/N 851HV.

Note: Some A310 aircraft may have pitot tube P/N 45.000 or C16254AA installed. If so the pitot test adaptor P/N P63307M1-3 or kit P/N ADA310-946 will need to be ordered.

### **Pre-Test Probe**

#### **P/N PT421-418 (3 req'd)**

The pre-testers are employed to verify the integrity of the pitot test adaptor, hoses and air data test set. The probe is inserted into the test adaptor and with the test adaptor connected via hose to the air data test set, and by applying pneumatic pressure, the entire assembly can be checked for leaks. (See note above re Pitot Tube Type).

### **Main Static Test Adaptor**

#### **P/N SS31003-4-4 (2 req'd)**

This adaptor provides a connecting seal for two main static ports. The assembly is attached to the aircraft fuselage by the means of two studs that are screwed into the two anchornuts provided above and below the main static ports.

The A310/300 series aircraft consist of a conventional static system that requires the connection of a blanking adaptor over the opposite static port. This adaptor is a combination Test Adaptor/Blanking Adaptor.

For RVSM testing both adaptors are employed as test adaptors and are connected to the air data test set by the static test hose assembly.

### **Stand-By Static Test Adaptor**

#### **P/N S31082-4 (2 req'd)**

This adaptor provides a connecting seal to the stand-by static ports in the nose area of the aircraft fuselage.



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The assembly is attached to the aircraft fuselage by means of two studs that are screwed into the two anchor nuts provided above and below the stand-by static ports.

The stand-by static test adaptor has the capability to serve as a blanking adaptor by installing the attached cap on the hose connection fitting.

When performing a standard air data test, the second test adaptor is installed on the opposite stand-by static port as a blanking unit, thus closing the system.

This adaptor also serves a combination Test Adaptor/Blanking Adaptor.

For RVSM testing both adaptors are employed as test adaptors and are connected to the air data test set by the static test hose assembly.

**Pitot Test Hose Assembly**

**P/N 310-7270 RVSM (1 req'd)**

This hose assembly consists of several branches and enables the connection of the air data test set to one, two or all three pitot test adaptors. Self-sealing, double acting quick disconnects are incorporated in the hose assembly to permit the different test adaptor connection combinations.

**Static Test Hose Assembly**

**P/N 310-5160 RVSM (1 req'd)**

This hose assembly consists of several branches and enables the connection of the air data test set to one, two, or all static test adaptors of the main and stand-by system.

Self-sealing, double acting quick disconnects are incorporated in the hose assembly to permit the different test adaptor connection combinations.

**Lubricating Fluid**

**P/N LF5050 (1 req'd)**

This fluid is used to lubricate the seals inside the pitot test adaptors and the seals on the static test adaptors.

For the pitot test adaptors, it is recommended, that a small amount of lubricating fluid be placed on the pre-test probe before adaptors are installed on the pitot tube. The pre-test probe is inserted into the pitot test adaptor and then retracted. This action will ensure smooth test adaptor and then retracted. This action will ensure smooth test adaptor installation onto the pitot tube and will keep the test adaptor seals moist.

To keep the seals of the static test adaptors moist, occasionally a small amount of lubricating fluid should be placed on each seal.

**Seal Kit**

**P/N SK701 (3 req'd)**

Three sets of spare seals are provided in the plastic container.

The seals inside the pitot test adapter can be exchanged by removing the circlip located inside the body of the test adaptor. The circlip is removed by inserting a pin tool in the small hole located just aft of the compression nut and pushing it out of its seat. The spacers



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inside the adaptor's body.

The new seals are placed in the exact same location and sequence between the spacers inside the test adaptor body. The circlip is then reinstalled and by inserting the pre-test probe PT421-418 and connecting the test adaptor to the air data test set verify the integrity of the pitot test adaptor.

**Seals**

**P/N 084M1-229 (6 req'd)**

Six spare seals for the static test adaptors are also provided in a plastic container.

The old seal is removed from the adaptor, by submerging the seal in Acetone for 24 hours. After a thorough cleaning of all surfaces, the new seal is glued in place by using CA8, or equivalent.

The seal must be installed with the embossed numbers facing towards the piston.

**P/N 444-310-947 (1 req'd)**

This manual contains outline drawings and parts lists for test adaptors and hoses contained in this Air Data Accessories Kit.

**Carrying Case**

The above listed equipment is contained in a case lined with dunnage to receive the adaptors and hoses in an orderly fashion.