AIRBUS A400M AIRCRAFT
AJA34141043
AIR DATA ACCESSORIES KIT
P/N. ADA400M945
This kit contains all the equipment required to test the complete pitot and static air data system on the Airbus A400M aircraft, as well as the means of pre-testing all adaptors and hoses prior to being fitted to the aircraft.

**Pitot Test Adaptor - LH MFP**

**Part No. P99400L-4C (2 req’d.)**

These Test Adaptors fit the Multi Function Probes (MFP) located on the left nose section of the aircraft.

When installed on a left MFP, pitot pressure can be applied to the associated air data system via this test adaptor.

The associated test hoses are connected by self sealing quick disconnect fittings located on each test adaptor and associated test hose assembly.

**Pre-Test Probe - MFP**

**Part No. PT19938 (3 req’d.)**

When it becomes necessary to test the integrity of the MFP Test Adaptor, associated Test Hoses and Air Data Test Set (ADTS), this unit is installed into the MFP Test Adaptor, simulating the aircraft MFP probe.

By applying pitot (total) pressure from the ADTS, the integrity of the above is verified, provided no air leakage exists.

**Pitot Test Adaptor – Standby**

**Part No. P75400M-4C-R (1 req’d.)**

This unit fits the Standby Pitot Probe located on the right side of the aircraft nose section.

The test hose is connected by self sealing quick disconnect fittings on the test adaptor and test hoses.

**Pitot Test Adaptor - RH MFP**

**Part No. P99400R-4C (1 req’d.)**

This unit fits the MFP probe located on the right nose section of the aircraft. When installed on the right MFP, pitot pressure can be applied to the associated air data system via this test adaptor.

The associated test hose is connected by a self sealing quick disconnect fitting on the test adaptor and the associated test hose.

**Pre-Test Probe – Pitot Standby**

**Part No. PT421-5400 (1 req’d.)**

When it becomes necessary to test the integrity of the Pitot Test Adaptor-Standby, associated Test Hoses and Air Data Test Set (ADTS), this unit is installed into the test adaptor, thus simulating the standby pitot probe.

By applying pitot (total) pressure from the ADTS, the integrity of the above is verified, provided no air leakage exists.
Static Test Adaptor - ISP
Part No. S40024-4C (6 req’d.)
These test adaptors fit the ISP ports located on each side of the front fuselage section. The test adaptors are fastened to the aircraft by the two threaded studs located on the test adaptor. Test hoses are connected by self sealing quick disconnect fittings on the test adaptor and test hoses.

Static Test Adaptor - Standby
Part No. S40025-4C (2 req’d.)
These static test adaptors fit the Standby Static Ports (SBSP) located on each side on the front fuselage section.

The test adaptors are fastened to the aircraft by the two threaded studs located on the test adaptor. Test hoses are connected by self sealing quick disconnect fittings on the test adaptor and test hoses.

These test adaptors can also be used as a Standby Static Port Blanking Unit. When no test hose is connected to the self sealing quick disconnect fitting on the test adaptor, the test adaptor functions as a Port Blanking Unit.

Pre-Test Plate - ISP and Standby Test Adaptors
Part No. PTS40024 (8 req’d.)
When it becomes necessary to test the integrity of the ISP and/or Standby Test Adaptors, associated Test Hoses and Air Data Test Set (ADTS), (with the ISP and Stanby Test Adaptors installed on the aircraft) this plate is inserted between the test adaptor seal and the ISP and Standby Static Ports on the aircraft, thus sealing-off the Test Adaptors from the Static Ports.

By applying static pressure from the ADTS, the integrity of the associated test hoses, test adaptors and ADTS is verified, - provided no air leakage exists.

The Pre-Test Plates are stowed in a pouch located in the lid of the storage case.

Test Cap – Standby Static Sensor
Part No.1QF30 (1 req’d.)
This test cap is for sealing-off an air connector at either of the two Standby Static Sensors located on the inside wall of the fuselage. The caps enable isolating the Standby Static Sensors from the aircraft air data system when external static pressure is applied to the Sensors.

Pitot (Total) Test Hose Assembly
Part No. A400M-7270RVSM (1 req’d.)
This hose assembly is connected to the pitot inlet of the two Test Adaptors-LH MFP, Test Adaptor-RH MFP and Pitot Test Adaptor-Standby. These hose ends are fitted with self sealing quick disconnect fittings, - and also with an AN-4 fitting to connect to the Air Data Test Set (ADTS) Pitot Outlet fitting.

Static Test Hose Assembly
Part No. A400M-5160RVSM (1 req’d.)
This hose assembly is connected to the inlets of the Static Test Adaptor-ISP (6) and to the two Static Test Adaptors-Standby. The
opposite end is connected to the static outlet of the Air Data Test Set (ADTS) – Fitting size AN-4.

Note: The RH and LH Standby Static Test Hoses are contained within this assembly and can be disconnected, - or left connected to this assembly by means of self sealing Quick Disconnect Fittings. This, as required by the applicable air data test procedure laid down in the Airbus A400M Aircraft Maintenance Manual.

Reducer Hose Assembly (Static)
Part No. AIRBUS-6-6-4 (1 req’d.)
This assembly is connected between the Static Outlet on the Air Data Test Set (ADTS) and the Static Test Hose Part No. A400M-5160 when the ADTS requires a 3/8" (AN-6) connection.

Hose Suspension Assembly
Part No. 532-4900-R (4 req’d.)
These Hose Suspension Assemblies are used to suspend the Pitot Test Hose Assemblies from the aircraft fuselage to relief the weight onto the Test Adaptors and Probes. The Hose Suspension Assembly is fastened by pressing it against the fuselage skin and engaging the small lever on the suction cup of the Hose Suspension Assembly.

The location of installation of the Hose Suspension Assembly is below each of the pitot test hose “T” piece (below the lowest Probe) on each side of the aircraft fuselage.

Seal Kit – MFP
Part No. SK9400 (3 req’d.)
Three sets of spare seals for the MFP Test Adaptors are stowed in the plastic case.

Seal Exchange Procedures for Test Adaptors--LH & RH MFP:

Removal: The seals inside the LH & RH MFP Test Adaptors can be replaced by removing the set screw which is locking the seal holder in place. Allen keys for removal of the set screw are stowed in the Seal Kit container P/N SK9400.

Turn seal holder counter clockwise until separated from adaptor body. Remove the second seal located inside the body of the adaptor.

Installation: Clean all components before assembly. With reference to the drawing, the second seal inside the adaptor body is replaced by working it in place by hand. The seal holder with seal is supplied together as a replacement unit and is installed by carefully turning the seal holder clockwise into the adaptor opening. The seal holder should rest up against the second seal already installed in the adaptor body. With the Allen key, the set screw should then be lightly tightened to lock the seal holder in place.
The integrity of the adaptor is verified by applying pitot pressure to the adaptor inlet fitting with the Pre-Test Probe installed.

Seal Kit – Pitot Standby
Part No. SK400 (1 req’d.)
One set of spare seals for Pitot Test Adaptor-Standby is stowed in the plastic case.

Seal Exchange Procedures for Pitot Test Adaptor-Standby:

Removal: The seals inside the Pitot Test Adaptor-Standby can be exchanged by removing the circlip located inside the body of the adaptor. The circlip is removed by inserting a suitable pin tool (Contained in Tool Kit-Seal Exchange) into the small hole in the test adaptor body (located just aft of the compression nut), - and pushing the circlip out of its seat. The compression nut can now be removed along with the spacers and seals from inside the adaptor.

Installation: Clean all components before assembly. The old seals are exchanged with the new ones and placed in the exact same location and sequence between the spacers (Reference to supplied drawing in this manual). Then carefully thread the compression nut onto the test adaptor body and reinstall the circlip.

The integrity of the adaptor is verified by applying pitot pressure to the adaptor inlet fitting with the Pre-Test Probe installed.

Seal – Static ISP & Standby
Part No. S40024-7 (6 req’d.)
Six spare seals for the Static Test Adaptor-ISP are stowed in the plastic case.

Seal Exchange Procedure for Static Test Adaptors (ISP and Standby):
The seals are exchanged by pulling the seal off from its seat with the means of a pair of pliers, - cleaning the seal seat from glue and seal residues, then reinstalling and securing the new seal with the use of Sealant, P/N 3M CA8, - or equivalent.

Tool Kit - Seal Exchange
P/N 421-ASTK (1 req’d.)
This kit contains small tools to assist in the change of Pitot Test Adaptor Seals and Spacers.

Generic instructions on how to exchange seals are also included in this Tool Kit.

This Tool Kit is used in conjunction with the Seal Kit P/N SK9400 and SK400.
Lubricating Fluid  
**Part No. LF5050 (1 req’d.)**
This fluid is used to lubricate the seals inside the test adaptors.
This is accomplished by the use of a cotton swab application of a thin film of lubricating fluid to the surface of the Pre-Test Probe, inserting the probe into the Test Adaptor with a rotating motion and then retracting it from the test adaptor. This action will ensure smooth test adaptor installation on to the MFP or Standby Pitot probe, and assists in keeping the test adaptor seals soft.

Leak Detector Fluid  
**Part No.LLD-238ML (1 req’d.)**
Leak Detector Fluid used to detect air leaks on pressurized air data assemblies. Instructions and warnings are posted on the leak detector fluid container. Do not use as lubricating fluid!

Manual – User Guide  
**Part No. USERGUIDE-A400M**
One manual is supplied with each kit.
It contains procedures to install and remove Test Hoses and Test Adaptors on the aircraft.

Manual - Part No. 444-ADA400M945  
One manual is supplied with each kit.
It contains:
- List of Equipment for the kit.
- Detail Drawings for:
  - Test Adaptors
  - Test Hose Assemblies
  - Pre-Test Probes
  - Accessories

Storage Case - Model No. STR-400M945  
All of the test adaptors, test hoses and accessories are contained in this heavy duty storage case assembly on wheels.

Customer Support  
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April 24, 2014