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**AIR DATA ACCESSORIES KIT
MODEL No. PHENOM300-945
EMBRAER PHENOM 300
AIRCRAFT
For Standard & RVSM Testing**



**AIR DATA ACCESSORIES KIT
MODEL No. PHENOM300-945
PHENOM 300 AIRCRAFT
For Standard & RVSM Testing**

The kit contains all the equipment required to connect and test from source the complete pitot & static air data system (including RVSM), as well the means of pre-testing all test adaptors and hoses prior to being fitted to the aircraft.

For exact air data test procedures, refer to the Embraer PHENOM 300 Aircraft Maintenance Manual.

This kit consists of the following components:

Test Adaptor – RH IASP

Part No. APA86300R-4-4-4-4 (1 req'd.)

This test adaptor fits the IASP probe (Integrated Air Data and Stall Protection Probe) located on the right nose section of the aircraft.

The test adaptor has the following labeled hose connections:

- Pt for Pitot
- Psb for Static
- Pa1 for Alpha
- Pa2 for Alpha

Test Adaptor- LH IASP

Part No. APA86300L-4-4-4-4 (1 req'd.)

This test adaptor fits the IASP probe located on the left nose section of the aircraft.

The test adaptor has the following labelled hose connections:

- Pt for Pitot
- Psb for Static
- Pa1 for Alpha
- Pa2 for Alpha

Pre-Test Probe

for IASP Test Adaptor

Part No. PT421-632 (2 req'd.)

When it becomes necessary to test the integrity of the IASP test adaptors, test hoses and air data test set (ADTS), the pre-test probes are installed into the test adaptors, thus simulating the IASP probe. With pitot and static pressure applied, a leak-check can be performed.

Pitot-Static Test Adaptor – Standby

Part No. PS73458-4-4 (1 req'd.)

This unit fits the standby pitot probe located on the right nose section of the aircraft.

The test adaptor has the following labeled hose connections:

- Pt for Pitot
- Ps for Static

Pre-Test Probe

for Pitot-Static Test Adaptor-Standby

Part No. PT421-458 (1 req'd.)

When it becomes necessary to test the integrity of the pitot-static test adaptor, test hoses and air data test set, the pre-test probe is installed into the test adaptor, thus simulating the standby pitot-static probe. With pitot and static pressure applied, a leak-check can be performed.

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Pitot Test Hose Assembly

Part No. PHENOM3-7270 (1 req'd.)

This hose assembly is connected to the pitot inlets of the IASP test adaptors and pitot-static test adaptor-standby (As per Maintenance Manual). The remaining end is connected to the pitot outlet (Pt) of the air data test set (ADTS).

Static-Alpha2 Test Hose Assembly

Part No. PHENOM3-5160 (1 req'd.)

This hose assembly is connected to the designated static (Psb) and alpha (Pa2) inlets of the IASP test adaptors and pitot-static test adaptor-standby.
The remaining end is connected to the static (Ps2) outlet of the air data test set.

Alpha1 Test Hose Assembly

Part No. PHENOM3-8381 (1 req'd.)

This hose assembly is connected to the Alpha (Pa1) inlets of the IASP test adaptors. The remaining end is connected to the static outlet (Ps1) of the air data test set.

Lubricating Fluid

Part No. LF5050 (1 req'd.)

This fluid is used to lubricate the seals inside the test adaptors.

This is accomplished by use of finger tip or cotton swab, applying a very 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. This action will ensure smooth test adaptor installation onto the pitot probe and will keep the test adaptor seals moist.

Seal Kit – IASP Test Adaptor

Part No. SK6300 (2 req'd.)

Two sets of spare seals for the IASP test adaptors are stowed in the case.

Seal Exchange for Pitot Test Adaptors:

Removal: The seals inside the pitot test adaptor can be exchanged by removing the circlip located inside the body of the adaptor. The circlip is removed by inserting a suitable pin tool in the small hole 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. With reference to the drawing, the seals are exchanged and placed in the exact same location and sequence between the spacers. Carefully thread the compression nut onto the adaptor body and reinstall the circlip.

The integrity of the adaptor is verified by applying pressure to the adaptor inlets with the pre-test probe installed.

Seal Kit - Pitot Static Test Adaptor - Standby

Part No. SK1458 (1 req'd.)

One set of spare seals for pitot-static test adaptor-standby are stowed in the case.

Seal Exchange for Pitot-Static Test Adaptor-Standby: Same procedure as for IASP test adaptor (above), except circlip is located inside compression nut.



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Tool Kit – Seal Exchange

Part No. 421-ASTK (1 req'd.)

This tool kit contains the necessary tools to assist in the seal replacement of test adaptors. Instructions on how to change seals are included in the kit.

Manual - Part No. 444-PHENOM300-945

One manual is supplied with each PHENOM300-945 Air Data Accessories kit. This manual contains drawings and parts lists of test adaptors and hose assemblies.

The above equipment is enclosed in a case assembly: **Model No. STR-PHENOM300-945**