

**AIR DATA ACCESSORIES KIT
MODEL No. PHENOM100-946
EMBRAER PHENOM 100
AIRCRAFT
For Standard & RVSM Testing**



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- Proprietary Information -

The kit contains all the equipment required to connect and test from source the complete pitot & static air data system (including RVSM) as well as providing the means of pre-testing all test adaptors and hoses prior to being fitted to the Phenom 100 Aircraft.

For exact air data test procedures for this aircraft, please refer to the Aircraft Manufacturer's Maintenance Manual.

This kit consists of the following components:

Pitot Test Adaptor

Part No. P74418-3 (2 req'd.)

These units fit the pitot probes 0851LP & 0851LW located on the nose section of the aircraft.

Pre-Test Probe

Part No. PT421-418 (2 req'd.)

When it becomes necessary to test the integrity of the ***Pitot Test Adaptors, Test Hoses and Air Data Test Set (ADTS)***, these units are installed into adaptors thus simulating the pitot probes.

Pitot Static Test Adaptor - Standby

Part No. PS88755-3-4 (1 req'd.)

This unit fits the standby pitot probe P/N. 101469-4 located on the nose section of the aircraft.

Pre-Test Probe

Part No. PT421-8755 (1 req'd.)

When it becomes necessary to test the integrity of the ***Pitot Static Test Adaptor-Standby*** and/or test hoses and air data test

set, this unit is installed into the adaptor thus simulating the standby pitot probe.

Static Test Adaptor

Part No. SS41960-4-4 (2 req'd.)

These adaptors fit the main static ports located on each side of the fuselage of this aircraft. The static test adaptors are fastened to the aircraft by first removing the three static port filler screws and then attaching the adaptor via the three threaded anchor points.

Pre-Test Plate

Part No. PTS41960 (2 req'd.)

When it becomes necessary to test the integrity of the ***Static Test Adaptor*** and/or ***Test Hoses*** and ***Air Data Test Set***, the ***Static Test Adaptor*** is installed onto the ***Pre-Test Plate***, simulating the static ports.

Pitot Test Hose Assembly

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

This hose assembly is connected to the ***Pitot Test Adaptors*** and ***Pitot Static Test Adaptor-Standby***. The remaining end is connected to the pitot outlet of the ***Air Data Test Set (ADTS)***.

Static Test Hose Assembly

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

This hose assembly is connected to the designated inlets of the ***Static Test Adaptors*** and ***Pitot Static Test Adaptor-Standby***. The remaining end is connected to the static outlet of the ***Air Data Test Set (ADTS)***.

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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 Kit

Part No. SK701 (2 req'd.)

Two sets of spare seals for pitot test adaptors are stowed in the clear plastic container.

Seal Exchange for Pitot Test Adaptors:

Removal: The seals inside the pitot test adapter 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. SK8755 (1 req'd.)

One set of spare seals for ***Pitot Static Test Adaptor-Standby*** are stowed in the clear plastic container.

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

Tool Kit – Seal Exchange

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

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

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Manual - Part No. 444-PHENOM100-946

One manual is supplied with each PHENOM 100 Air Data Kit. This manual contains drawings and parts lists of test adaptors and hose assemblies.

The equipment is enclosed in a Case Assembly:

Model No. NANUK933-PHENOM100-946

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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