

AIR DATA ACCESSORIES KIT
MODEL No. ADAE2D-946
E-2D AIRCRAFT

For Standard & RVSM Testing



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Description

This kit contains all test adaptors and hoses required to connect the Air Data Test Set (ADTS - 2 or 3 channel) to the Air Data System Probes (ADSP) of the E-2D aircraft for the performance of tests on the main and stand-by air data systems, as per the relevant E-2D Aircraft Maintenance Manual (Maintenance Practices).

This Kit also contains the equipment required to perform a pneumatic test of the Cabin Pressure Acquisition Module (CPAM).

Adaptor, ADSP Test

Part No. APA97632R-4C (1 req'd)

This test adaptor has been designed to fit the right Goodrich Probe P/N 2015G1H1B. It is best to connect the required test hoses to the quick connect fittings of the test adaptors prior to the installation of the test adaptor on to the ADSP.

Note: The drain hole located on the ADSP is automatically covered and sealed by the installation of the test adaptor on the ADSP.

Adaptor, ADSP Test

Part No. APA97632L-4C (1 req'd)

This test adaptor has been designed to fit the left Goodrich Probe P/N 2015G1H1B. It is best to connect the required test hoses to the quick connect fittings of the test adaptor prior to the installation of the test adaptor on to the ADSP.

Note: The drain hole located on the ADSP is automatically covered and sealed by the installation of the test adaptor on the ADSP.

Probe, Pre-Test For ADSP

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

When it becomes necessary to test the integrity of the test adaptor, hoses and ADTS, this unit is installed into the adaptors thus simulating the ADSP.

Pitot Test Hose Assembly Pt

Part No. E2D-PT RVSM-2 (1 req'd)

This hose assembly is connected to each Pitot inlet (Pt) of the test adaptors as per the relevant E-2D Aircraft Maintenance Manual (Maintenance Practices).

Self-sealing, double acting quick disconnect fittings are incorporated in the hose assembly to permit different test configurations.

Static Test Hose Assembly Pa1/Ps

Part No. E2D-PA1 RVSM-2 (1 req'd)

This hose assembly is connected to each static inlet (Pa1 and Ps) of the test adaptors as per the relevant E-2D Aircraft Maintenance Manual (Maintenance Practices).

Self sealing, double acting quick disconnect fittings are incorporated in the hose assembly to permit different test configurations.

Please Note:

For ADTS with Single Channel Static Outlets, the end sections of **Static Test Hose Assembly Pa1/Ps** connect on to the **Static Test Hose Assembly Pa2** as per the relevant E-2D Aircraft Maintenance Manual (Maintenance Practices).



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Static Test Hose Assembly Pa2

Part No. E2D-PA2 RVSM-2 (1 req'd)

This hose assembly is connected to each static inlet (Pa2) of the test adaptors as per the relevant E-2D Aircraft Maintenance Manual (Maintenance Practices).

For single channel ADTS (Druck ADTS-405F) the two end sections of Static Test Hose Assembly Pa1/Ps is connected to the designated quick connects of Static Test Hose Assembly Pa2.

Self-sealing, double acting quick disconnect fittings are incorporated in the hose assembly to permit different test configurations.

CPAM, (Cabin Pressure Acquisition Module) - Test Hose and Module Connector Assembly

Part No. CPAM-643-R (1 req'd)

This hose is designed to connect the ADTS static outlet to the Cabin Pressure Acquisition Module (CPAM) located in the left forward equipment bay, as per the relevant E-2D Aircraft Maintenance Manual (Maintenance Practices).

With reference to the drawing, replacement "O" Rings are available in packages of 10.

Order under P/N: CPAM-003-X10

Manual

Part No. 444-E2D-946 (1 req'd)

This manual contains outline drawings and parts lists for test adaptors and layout schematics of the pitot and static hose assemblies contained in this Air Data Accessories Kit.

Carrying Case

Part No. NANUK-E2D-946 (1 req'd)

All of the foregoing listed equipment is contained in a white carrying case, which is lined with formed dunnage to store and/or transport the adaptors and hoses in an orderly fashion.



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AVAILABLE OPTIONAL ITEMS AND
CONSUMABLES NOT FURNISHED WITH
THIS KIT:

Seal Kit for ADSP Test Adaptor

Part No. SK7632 (2 req'd)

Two sets of spare seals are stowed in a plastic container.

The seals inside the ADSP test adaptor 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 and seals can then be removed from inside the adaptor.

For the two Static Port Pick-ups on the ADSP test adaptors, the tapered alpha seal is exchanged by pulling the seal off from its seat, cleaning the seat of glue and seal residues. To install the new tapered alpha seal, the openings of the alpha seal must be aligned with the adaptor fitting openings. When seal is positioned, slightly pull back seal to apply only one drop of Sealant, P/N 3M CA8 away from the openings.

Then the remaining new seals are placed in the exact same location and sequence between the spacers and collar.

The Compression nut is then threaded back into adaptor and the circlip is reinstalled.

The integrity of the test adaptor is verified by applying pressure to the ADSP test adaptor inlets with the Pre-Test Probe installed.

Reducer Hose Assembly

Part No. A352-4-6 (2 req'd)

As need be, these provide for interface with an ADTS that is equipped with **-6 Static** connections.

Lubricating Fluid

Part No. LF5050 (1 req'd)

This fluid is used to lubricate the seals inside the ADSP test adaptors. Doing so facilitates both ease of installation of the Adaptors onto the aircraft's probes and minimizes friction damage to the seals.

Whether during a pre-test verification of the ADTS configuration or prior to hook-up to the aircraft, a small amount (finger tip dab) of lubricating fluid is applied to the pre-test probe.

Then, while slightly rotating it, the pre-test probe is inserted into the ADSP test adaptor cavity. This action will ensure smooth test adaptor installation on to the ADSP probe and will keep the test adaptor seals moist.