



AIR DATA ACCESSORIES KIT
MODEL No. LEG500-945
EMBREAR LEGACY 500 & 450 AIRCRAFT

For Standard & RVSM Testing

- Proprietary Information -

hoses required to connect the Air Data Test Set (ADTS – GSE040) to the Air Data System Probes (ADSP) to accommodate the performance of tests on the air data systems of the Legacy 500 and 450 aircraft and can serve the Oxygen Flow Test. This as per the relevant Embraer Aircraft Maintenance Manual (Maintenance Practices). Test Adaptors accommodating the ADSP on Left and Right Hand Side Fuselage: The Test Adaptors have been designed to fit Goodrich Probes P/N 0857DC1. For the purpose of connecting the test hoses to the ADSP test adaptor on each side of the fuselage, two test adaptor configurations are included in this Air Data Accessories Kit. One test adaptor P/N matching the left side (L) aircraft nose area, and another P/N for the right side (R). Short Test Hoses with Quick Disconnect Fittings are pre-connected to the test adaptors and stowed in the Carrying Case. It is best to install the test adaptors together with these short hoses on to the probes first, - then connect the required long test hose assemblies to the relevant labeled test adaptor fittings. Note: The drain hole located on the ADSP is automatically covered and sealed by the installation of the test adaptor on the ADSP.

Part No. APA97500HTL-4-4-4-4 (2 req'd)

For installation on ADSP located on left nose section of aircraft.

Test Adaptor for ADSP RH

Part No. APA97500HTR-4-4-4-4 (2 req'd)

For installation on ADSP located on right nose section of aircraft.

Pre-Test Probe for ADSP

P/N PT421-7500 (4 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. With air data pressure from the ADTS, a leak check of test adaptor, test hoses and ADTS can be performed.

Pitot Test Hose Assembly PT

Part No. LEG-7270RVSM (1 req'd)

This hose assembly is connected to each pitot inlet (PT) of the test adaptors, - as per the relevant Embraer Legacy 500 or 450 Aircraft Maintenance Manual (Maintenance Practices).

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

Static Test Hose Assembly PS1

Part No. LEG-5160RVSM (1 req'd)

This test hose assembly is connected to each static inlet (PS and PA1) of the test



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adaptors, - as per the relevant Embraer Aircraft Maintenance Manual (Maintenance Practices). Self-sealing quick disconnect fittings are incorporated in the hose assembly.

Static Test Hose Assembly PS2

Part No. LEG-4059RVSM (1 req'd)

This hose assembly is connected to each static inlet (PA2) of the ADSP test adaptors, - as per the relevant Embraer Aircraft Maintenance Manual (Maintenance Practices). Self-sealing double acting quick disconnect fittings are incorporated in the hose assembly to permit different test configurations and trouble shooting.

Hose Suspension Assembly

Part No. 532-8971DBM (2 req'd)

These units are installed on the fuselage skin below the lower ADSP and below the Test Hose "T" on each side of the aircraft, - to hold the weight of test hoses.

Seal Kit for ADSP Test Adaptor

Part No. SK7500HT (2 req'd)

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

Tool Kit – Seal Exchange

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

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

Lubricating Fluid

Part No. LF5050 (1 req'd)

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

It is recommended, a small amount of lubricating fluid be placed on the pre-test probe before adaptors are installed on the ADSP .

The pre-test probe is inserted into the test adaptor and then retracted with a turning action. This procedure will ensure smooth test adaptor installation on to the ADSP probe and will keep the test adaptor seals moist.

Manual

Part No. 444-LEG500-945 (1 req'd)

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

Case Assembly

All of the foregoing listed equipment is contained in this carrying case lined with formed foam dunnage.