



AIR DATA ACCESSORIES KIT
MODEL No. LJ85-945
LEARJET LJ85 AIRCRAFT
For Standard & RVSM Testing
- Proprietary Information -

This kit contains all Test Adaptors and Test Hoses required connecting the Air Data Test Set (ADTS 206) to the Air Data System Probes (ADSP) of the Learjet LJ85.

This, for the performance of tests on the LJ85 air data systems, as per the relevant LJ85 Aircraft Maintenance Manual (Maintenance Practices).

The ADSP Test Adaptors have been designed to fit Goodrich Probes P/N 0857DD.

The LJ85-945 test hose lengths permit placement of the ADTS either left, right or center of the nose of the aircraft, - with the aircraft on wheels or on jacks.

Test Adaptor ADSP LH

Part No. APA96585LH-4-4-4-4 (2 req'd)

These Test Adaptors fit the two ADSP probes located on the LH side nose section.

The LH contained in the Part Number indicates the test adaptor is for LH side ADSP .

Note: Each test hose connection is equipped with a self-sealing quick disconnect fitting. The pitot connection is equipped with a keyed quick disconnect fitting to prevent interchanging with static hose connectors.

Short Test Hoses with Quick Disconnect Fittings are pre-connected to each ADSP test adaptor.

It is best to install the test adaptors connected together with these short, as well as well as the long test hose assemblies. (To prevent pressure build-

up in the ADSP when installing the test adaptor).

Installation of the Test Adaptors on to the ADSP Probes is best achieved by pushing

the test adaptor on to the probe by first taking a firm stance on a solid platform (Not ladder),- then line up the blue line on the white guide with the leading edge of the ADSP mast. Hold the test adaptor in this position while tightening the knurled nut. Ensure blue line is still in position with the mast leading edge.

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

Test Adaptor ADSP RH

Part No. APA96585RH-4-4-4-4 (2 req'd)

These Test Adaptors fit the two ADSP probes located on the RH side on the nose section.

The RH contained in the Part Number indicates the test adaptor is for the RH side ADSP .

APA96585LH Note also applies.

Pre-Test Probe for ADSP

P/N PT421-6585 (4 req'd)

When it becomes necessary to test the integrity of the Test Adaptors, Test Hoses and ADTS, this Pre-Test Probe is installed into the test adaptors, thus simulating the ADSP. Applying pitot and static pressure from the ADTS is providing a means of testing for leaks.



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Pitot Test Hose Assembly PT

Part No. LJ85-7270RVSM (1 req'd)

This Test Hose Assembly is connected to each pitot inlet (PT) of the Test Adaptors, - and to the ADTS pitot outlet fitting (PT), - as per the LJ85 Aircraft Maintenance Manual.

Self-sealing, double acting Quick Disconnect Fittings are incorporated in the test hose assembly to permit different test configurations and easy connection to the test adaptors.

Note: The pitot test hoses at each ADSP connection are equipped with a keyed quick disconnect fitting to prevent interchanging with static system connectors.

Static Test Hose Assembly PS1

Part No. LJ85-5160RVSM (1 req'd)

This Test Hose Assembly is connected to each Static inlet (PS1) and ((PAB) of the Test Adaptors, - and to the ADTS outlet fitting

(Ps 1), - as per the LJ85 Aircraft Maintenance Manual.

Self-sealing, double acting quick disconnect fittings are incorporated in the test hose assembly to permit different test configurations and easy connection to the ADSP Test Adaptors static connections (PS1) and (PAB).

Static Test Hose Assembly PS2 Part

No. LJ85-4059RVSM (1 req'd)

This Test Hose Assembly is connected to each Static inlet (PAT) of the Test Adaptors, - and to the ADTS outlet fitting (Ps 2), - as per the LJ85 Aircraft Maintenance Manual.

Self-sealing, double acting quick disconnect fittings are incorporated in the test hose assembly to permit different test configurations and easy connection to the ADSP Test Adaptors static connections (PAT).

Hose Suspension Assembly

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

These units are used to suspend Test Hose assemblies on the aircraft fuselage, - relieving the weight on the test adaptors.

Seal Kit for ADSP Test Adaptor

Part No. SK6585 (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 tool kit contains the necessary tools to assist in seal and spacer replacement of ADSP test adaptors. Instructions on how to change seals spacers are included in this kit.



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Lubricating Fluid

Part No. LF5050 (1 req'd)

This fluid is used to lubricate the seals inside the ADSP Test Adaptors. For the ADSP test adaptors, it is recommended, that a small amount of lubricating fluid be placed on the pre-test probe before test adaptors are installed on the ADSP.

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

Manual

Part No. 444-LJ85-945 (1 req'd)

This manual contains the List of Equipment, 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

PAI of the foregoing listed equipment is contained in this heavy duty carrying case, which is lined with formed dunnage to store and transport the adaptors and test hoses in an orderly fashion.