

AIR DATA ACCESSORIES KIT
MODEL No. CSERIES-945
BOMBARDIER
C-SERIES
&
AIRBUS
A220-100 & A220-300
AIRCRAFT
For Standard & RVSM Testing



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C-Series & A220-100/300 AIRCRAFT
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- Proprietary Information -

Description

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

This, for the performance of tests on the CSERIES/A220 aircraft air data systems, as per the relevant C-Series/A220 Aircraft Maintenance Manual (Maintenance Practices).

The CSERIES-945 test hoses length 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. APA97743LH-4-4-4-4 (2 req'd)

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

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

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 pressure connectors.

Note: 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. APA97743RH-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.

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 pressure connectors.

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

Note: All 4 x APA97743 adaptors come equipped with Hose Assembly set, part number: HS97743-A220.

Pre-Test Probe for ADSP

P/N PT421-7743 (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.

Pitot Test Hose Assembly PT

Part No. A220-7270RVSM (1 req'd)

This Test Hose Assembly is connected to each pitot inlet (PT) of the Test Adaptors, - as per the relevant C-Series/A220 Aircraft Maintenance Manual (Maintenance Practices) – and to the ADTS pitot outlet fitting (PT).

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.



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

Static Test Hose Assembly PS1

Part No. A220-5160RVSM (1 req'd)

This Test Hose Assembly is connected to each Static inlet (PS1) and ((PAB) of the Test Adaptors, - as per the relevant C-Series Aircraft Maintenance Manual (Maintenance Practices) and to the ADTS outlet fitting (PS1).

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. A220-4059RVSM (1 req'd)

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

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. 532-8971DBM (4 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. SK7743 (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.

The seals are exchanged and placed in the exact same location and sequence between the spacers. The circlip is then reinstalled.

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

For the two Static Port Pick-ups inside the ADSP test adaptor, the seal is exchanged by pulling the seal off from its seat, cleaning the seat of glue and seal residues, then reinstalling the new seal with the use of Sealant, P/N 3M CA8.

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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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.

Manual

Part No. 444-CSERIES-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

Part No. NANUK960-CSERIES-945 (1 req'd)

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

Customer Support

For information or to order replacement parts for this kit, please contact:

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