

AIR DATA ACCESSORIES KIT
MODEL No. ADA320-945
AIRBUS A318, A319, A320 &
A321 AIRCRAFT
For Standard & RVSM Testing



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- Proprietary Information -

Description

This kit contains the required test adaptors and hoses to connect the air data test set to the pitot tubes and static ports of the aircraft, for the performance of air data tests on the main and stand-by air data system of the Airbus A318, A319, A320 and A321 as per the Airbus Maintenance Manual.

RVSM Testing

This kit also contains the additional adaptors and hoses required to perform an air data test to the Reduced Vertical Separation Rules, RVSM, as per the Airbus Maintenance Manual.

The RVSM test procedures require the simultaneous connection of all main and stand-by static ports on both sides of the aircraft fuselage. This differs from the standard air data test, where only one static port per system is connected. The additional static adaptor and hoses are included.

The RVSM test procedures also require the simultaneous connection of all three pitot tubes. The additional pitot adaptor and hoses are included in this kit.

Pitot Test Adaptor

Part No. P99320M1-4C (3 req'd)

These adaptors have been designed to fit pitot probes P/N 50620, C16195AA & C16195BA. To close the drain holes of the pitot tube, the test adaptor has two seal pads installed on extension arms. All pitot adaptors are equipped with hose quick disconnect fittings.

Pre-Test Probe

Part No. PT19932 (3 req'd)

The pre-test probes are employed to verify the integrity of the pitot test adaptor, hoses and air data test set. The probe is inserted into the test adaptor while connected to the hose and air data test set. By applying pneumatic pressure, the entire assembly can be checked for leaks.

Main Static Test Adaptor

Part No. SS32092-4 (2 req'd)

This adaptor provides a connecting seal for the two main static ports. The assembly is attached to the aircraft fuselage by means of two studs that are screwed into the two anchor nuts provided above and below the main static ports.

The A320 series aircraft employs electrical transducers contained inside each main static port. Therefore, during the standard air data test, one port in each main system is connected, and the opposite static port does not require blanking. The stand-by system is however a conventional static system that requires the connection of a blanking adaptor over the opposite static port.



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Standby Static Test Adaptor

Part No. S32084M1-4 (2 req'd)

This adaptor provides a connecting seal to the standby static ports in the nose area of the aircraft fuselage. The assembly is attached to the aircraft fuselage by means of two studs that are screwed into the two anchor nuts provided above and below the standby static ports.

The standby static test adaptor has the capability to serve as a blanking adaptor by installing the attached cap on the hose connection fitting.

When performing a standard air data test, the second test adaptor is installed on the opposite standby static port as a blanking unit, thus closing the system. This is required, as the stand-by static ports are conventional ports without electrical transducers.

For RVSM test procedures, both stand-by static ports are required to be connected to the air data test set. Thus, both test adaptors are installed performing the function of test adaptors, and the supplied static hose assembly is connected to both test adaptors.

Pitot Test Hose Assembly

Part No. 320-6360 (1 req'd)

This hose assembly consists of several branches and enables the connection of the air data test set to one, two or all three pitot test adaptors. Self sealing, double acting quick disconnects are incorporated in the hose assembly to permit the different test adaptor connection combinations.

Static Test Hose Assembly

Part No. 320-4959 (1 req'd)

This hose assembly consists of several branches and enables the connection of the air data test set to one, two or all static test adaptors of the main and stand-by system as per the test procedures laid down in the Airbus Maintenance Manual.

(Standard and RVSM testing)

Self sealing, double acting quick disconnects are incorporated in the hose assembly to permit the different test adaptor connection combinations.

Seal Kit for Pitot Test Adaptors

Part No. SK320 (3 req'd)

Three sets of spare seals are provided in the plastic container. The seals inside the pitot test adapter can be replaced 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 pitot test adaptor is then verified by inserting pre-test probe P/N PT19932 into the adaptor and connecting the test adaptor to the air data test set.



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Seal

P/N 084M1-229 (6 req'd.)

Six spare seals for the static test adaptors and stand-by static test adaptors are provided in the plastic container.

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. 444-320-945 (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. NANUK963-320-945

The above listed equipment is contained in this aluminium case lined with dunnage to receive the adaptors and hoses in an orderly fashion.

Customer Support

For information or to order replacement parts for this kit or for other types of aircraft, please contact us:

Nav-Aids Ltd.
2955 Diab Street
Montreal, QC.
H4S 1M1
Canada

Tel: 514 332-3077
Toll Free: 877-332-3055
Fax: 514 332-6711

E-mail: info@navaidsltd.net

Website: www.navaidsltd.net