



ENGINE - POWERPLANT - OIL - MAGNETIC CHIP DETECTOR - INSPECTION FOR WEAR - CATEGORY
CODE 5 - MOD.ENG-79-0029

1. Planning Information

A. Effectivity

- (1) Airplane: (a) Airbus A320
(b) Airbus A321
- (2) Engine: (a) V2500-A1 and A5 All Engines.
(b) V2500-A5 All Engines.

B. Reason

Some wear was discovered on the Magnetic Chip Detector (MCD) probe pins and housings during routine maintenance checks. The intent of this Service Bulletin is to ensure effective chip detector operation through regular inspections.

C. Compliance

Category 5

Accomplish when the engine is disassembled sufficiently to afford access to the affected subassembly (i.e. modules, accessories, components, build groups) and to all affected spare subassemblies.

D. Approval

This Service Bulletin is approved by Airbus Industrie and is not associated with an Airbus Modification nor does it require approval by the Direction Generale de L'Aviation Civile - Frane (DGAC).

E. References

- (1) Internal Reference No.
92VN073
- (2) Other References
A320 Aircraft Maintenance Manual.
A321 Aircraft Maintenance Manual.
Muirhead Vactric Component Maintenance Manual, 79-22-45.

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**F. Action**

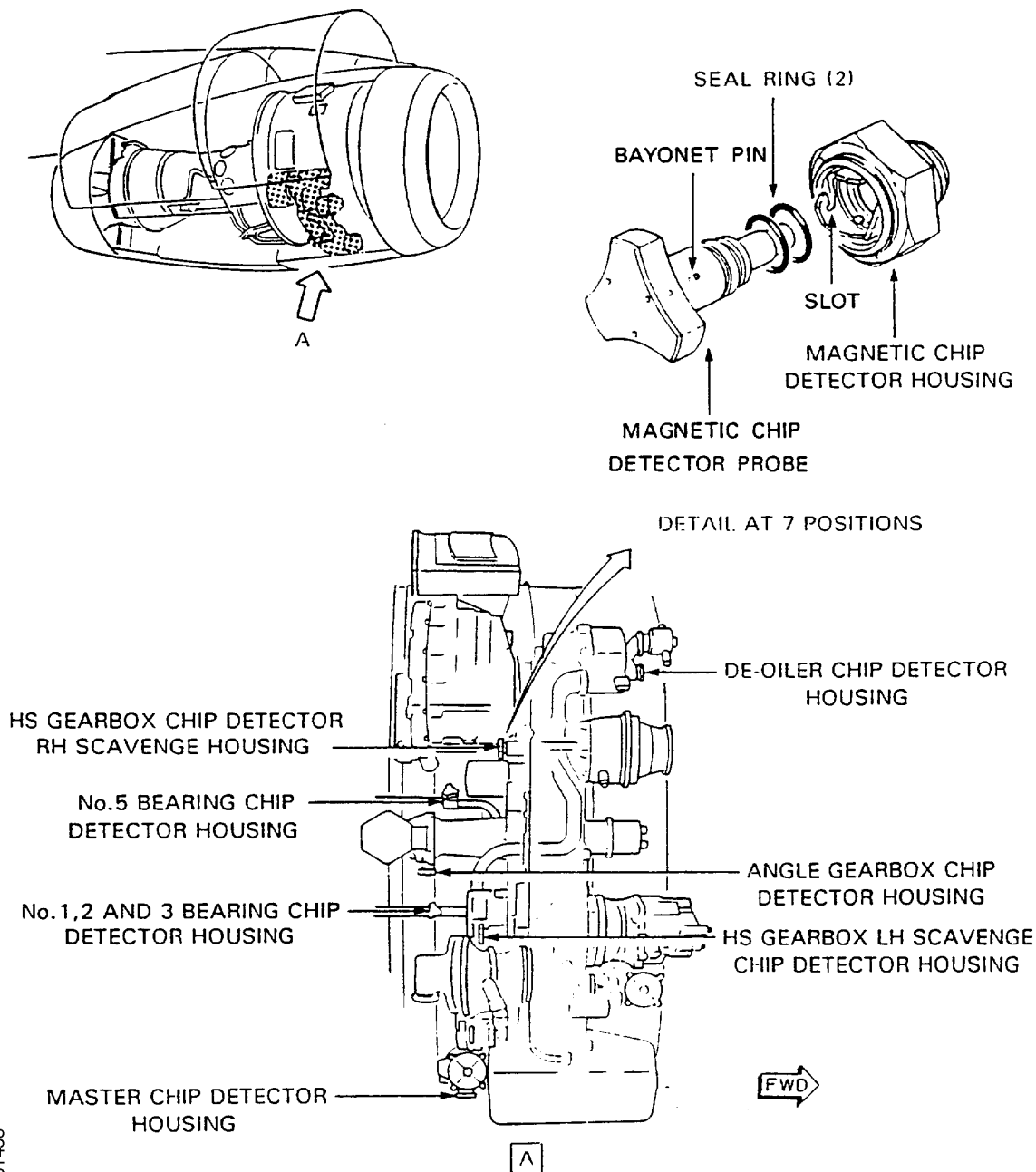
- (1) Open the left and right fan cowl doors as instructed Reference (1), Task 712-13-00-010-010.
- (2) Remove the master magnetic chip detector (MCD) probe as instructed in Reference (1), Task 79-22-45-000-010. Refer to Figure 1.
- (3) Inspect the Master MCD probe:
 - (a) If the diameter of the bayonet pins along the pin length is not less than 0.077 inch (1.97mm), the probe is acceptable. If the diameter is less than 0.077 inch (1.97mm), replace or repair the MCD probe. See Reference 1.E.(2) for repair.
 - (b) If the pins are bent or loose, repair or replace the MCD probe. See Reference (2) for pin repair.
 - (c) If the pin(s) are broken, replace the probe.
- (4) Inspect the master MCD housing for wear on the slots. Use the T71884 Inspection tool:
 - (a) If the slots in the housing are not visible at the location indicated by the yellow arrows on the tool, the housing is acceptable.
 - (b) If any/all of the slots are visible, replace the housing. Remove the master magnetic chip detector (MCD) housing as instructed in Reference (1) TASK 79-22-45-000-011. Refer to Figure 1.
- (5) If applicable, install master MCD housing per Reference (1), Task 79-22-45-400-010.
- (6) Install master MCD probe per Reference (1), TASK 79-22-45-000-010.
- (7) Inspect the MCD probes and housing at the six remaining locations shown in Figure 1 per steps (2) through (6).
- (8) If, after inspecting probes and housings at any location and required replacement probes and/or housings are unavailable, proceed as follows:

Note: Plugs may be installed at up to five locations (except the No. 5 bearing and Master Chip detector locations). Chip detectors must be installed at the No. 5 chip detector and master chip detector locations. If an adequate number of replacement probes and/or housings are unavailable, use a serviceable probe/housing from another location at the No. 5 and/or Master chip detector locations. Subsequently replace all plugs and seal rings when chip detectors become available.



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- (a) Place AS43003-909 seal on MS9954-09 plug and install plug where MCD housing was removed. Torque plug to between 160 and 180 lbf in. (18 and 20 Nm). See Reference (1), Chapter/Section 70-23-11.
 - (b) Safety the plug with lockwire. See Reference (1), Chapter/Section 70-40-11.
 - (9) Make sure there is sufficient oil in the systems. See Reference (1), Task 12-13-79-610-011.
 - (10) Inspect the plug for leaks. See References (1), Task 71-00-00-710-017 for oil leak tests.
 - (11) Close the left and right fan cowl doors as instructed in Reference (1), Task 71-13-00-410-010.
 - (12) Inspect the MCD probes and housings as described in steps (2) through (7) at every subsequent 2A Check.
- G. A record of accomplishment is necessary.



EXAMINATION OF MCD PROBE AND HOUSING
Fig.1

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International Aero Engines

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