

UNAPPROVED PARTS NOTIFICATION

Flight Standards Service



FAA
Aviation Safety

No.: 2008-200600159

Date: March 26, 2008

<http://www.faa.gov/aircraft/safety/programs/sups/upn>

AFFECTED PRODUCTS

Honeywell Model IVA-81A, display indicators for Traffic Alert and Collision Avoidance Systems (TCAS) installed in transport category airplanes.

PURPOSE

This notification advises all aircraft owners, operators, manufacturers, maintenance organizations, parts suppliers, and parts distributors regarding improper maintenance performed on Honeywell Model IVA-81A, TCAS display indicators.

BACKGROUND

Information received during a Federal Aviation Administration (FAA) investigation revealed that Aeronautical Technology, Inc., d.b.a. Aero Technology, a certificated repair station located at 3333 East Spring Street, Suite 311, Long Beach, CA 90806, overhauled and approved for return to service Honeywell Model IVA-81A, TCAS display indicators contrary to the regulations. Aeronautical Technology, Inc., holds FAA Air Agency Certificate No. DQ3R458L.

Evidence indicates that Aero Technology approved display units that it did not overhaul in compliance with the methods, techniques, and practices prescribed in the current manufacturer's maintenance manuals. Specifically, Aero Technology failed to install the required parts and correct part numbers during assembly of the display indicators. Discrepancies included, but are not limited to, the following:

- 1) Failure to install all required parts listed in the Honeywell parts manual and service bulletin ATA No. IVA-81A-34-63 (Pub No. 4693).
- 2) Failure to install the proper TCAS liquid crystal display in the Honeywell IVA-81A, Honeywell part number 043-20073-0005 and,
- 3) Failure to use proper test equipment in making airworthiness determinations for return to service of the display units.

Below is a partial list of TCAS display units that Aero Technology overhauled and approved for return to service.

RECOMMENDATIONS

Regulations require that type-certificated products conform to their type design. We encourage aircraft owners, operators, manufacturers, maintenance organizations, parts suppliers, and parts distributors to inspect any aircraft, aircraft records, and/or parts inventories for any Honeywell IVA-81A TCAS display unit repaired, overhauled, and approved for return to service by Aeronautical Technology. If you find any referenced unit installed, you should take appropriate

action. If you find any display unit in existing inventory, we recommend quarantine to prevent installation until each display unit's eligibility for installation is determined.

FURTHER INFORMATION:

You can obtain further information concerning this investigation and guidance regarding the referenced display units from the FAA Flight Standards District Office (FSDO) given below. In addition to the above recommendations, the FAA would appreciate any information concerning the discovery of the Honeywell IVA-81A TCAS displays from any source, the means used to identify the source, and the action taken to remove the display from aircraft and/or stock.

This notice originated from the FAA Kansas City FSDO, 901 Locust Street, Room 403, Kansas City, MO 64106, telephone (816) 329-4000, fax (816) 329-4010.

LIST OF PARTS

Part No.	Serial No.	Part No.	Serial No.
066-50001-1001	1059	066-50001-1001	6822
066-50001-1001	1304	066-50001-1001	8968
066-50001-1001	1547	066-50001-1001	10265
066-50001-1001	1824	066-50001-1001	X7240
066-50001-1001	1873		
066-50001-1001	2070	066-50001-0901	1830
066-50001-1001	2079	066-50001-0901	1968
066-50001-1001	2191	066-50001-0901	2105
066-50001-1001	2235	066-50001-0901	2540
066-50001-1001	2243	066-50001-0901	2996
066-50001-1001	2314	066-50001-0901	3158
066-50001-1001	2718	066-50001-0901	3368
066-50001-1001	2775	066-50001-0901	4025
066-50001-1001	2824	066-50001-0901	4063
066-50001-1001	3149	066-50001-0901	4412
066-50001-1001	3698	066-50001-0901	4427
066-50001-1001	3711	066-50001-0901	4613
066-50001-1001	3763	066-50001-1701	3265
066-50001-1001	3790	066-50001-1801	3364
066-50001-1001	3907	066-50001-1801	R4190
066-50001-1001	3930	066-50001-1801	X1761
066-50001-1001	3951	066-50001-1804	4796
066-50001-1001	4067	066-50001-2704	3244
066-50001-1001	4112	066-50001-3104	5521
066-50001-1001	4521		
066-50001-1001	5245		
066-50001-1001	5878		
066-50001-1001	5914		
066-50001-1001	6264		
066-50001-1001	6302		