

Installation Bulletin

BULLETIN NO: 452

APPLICABLE TO: IVA-81C and IVA 81D, All Part Numbers

SUBJECT: Interchangeability of IVA 81A, C, and D TA/VS1 TCAS Indicators

AlliedSignal recently introduced the IVA 81C and IVA 81D TA/VS1 TCAS Indicators. The IVA 81C and D Indicators were designed to be a direct replacement at the aircraft level for the IVA 81A TA/VS1 TCAS Indicator. These indicators are identical in form, fit, and function.

The following information may be helpful when dealing with certification issues.

COMPATIBILITY CHART

066-50001-XXXX = IVA 81A

066-50053-XXXX = IVA 81C

066-01171-XXXX = IVA 81D

P/N	Version	Face Plate	Primary Power	Panel Lighting	UP-DN Range Control	TA Select	Brightness Control
066-50001	-0901	Black	115VAC	5 Vac/Vdc		X	X
066-01171	-0901	Black	115VAC	5 Vac/Vdc		X	X
066-50001	-0903	Black	115VAC	5 Vac/Vdc		X	X
066-01171	-0903	Black	115VAC	5 Vac/Vdc		X	X
066-50001	-0904	Black	115VAC	5 Vac/Vdc		X	X
066-01171	-0904	Black	115VAC	5 Vac/Vdc		X	X
066-50001	-1001	Gray	115VAC	5 Vac/Vdc		X	X
066-01171	-1001	Gray	115VAC	5 Vac/Vdc		X	X

P/N	Version	Face Plate	Primary Power	Panel Lighting	UP-DN Range Control	TA Select	Brightness Control
066-50001	-1004	Gray	115VAC	5 Vac/Vdc		X	X
066-01171	-1004	Gray	115VAC	5 Vac/Vdc		X	X
066-50001	-1101	Brown	115VAC	5 Vac/Vdc		X	X
066-01171	-1101	Brown	115VAC	5 Vac/Vdc		X	X
066-50001	-1704	Black	28 VDC	5 Vac/Vdc		X	X
066-01171	-1704	Black	28 VDC	5 Vac/Vdc		X	X
066-50001	-1804	Gray	28 VDC	5 Vac/Vdc		X	X
066-01171	-1804	Gray	28 VDC	5 Vac/Vdc		X	X
066-50001	-2304	Black	28 VDC	28 Vdc		X	X
066-01171	-2304	Black	28 VDC	28 Vdc		X	X
066-50001	-2702	Black	28 VDC	5 Vac/Vdc	X		X
066-01171	-2702	Black	28 VDC	5 Vac/Vdc	X		X
066-50001	-2704	Black	28 VDC	5 Vac/Vdc	X		X
066-50053	-2704	Black	28 VDC	5 Vac/Vdc	X		X
066-01171	-2704	Black	28 VDC	5 Vac/Vdc	X		X
066-50001	-2804	Gray	28 VDC	5 Vac/Vdc	X		X
066-50053	-2804	Gray	28 VDC	5 Vac/Vdc	X		X
066-01171	-2804	Gray	28 VDC	5 Vac/Vdc	X		X
066-50001	-3104	Black	28 VDC	28 VDC	X		X
066-01171	-3104	Black	28 VDC	28 VDC	X		X
066-50001	-3404	Gray	115VAC	5 Vac/Vdc			X

P/N	Version	Face Plate	Primary Power	Panel Lighting	UP-DN Range Control	TA Select	Brightness Control
066-01171	-3404	Gray	115VAC	5 Vac/Vdc			X
066-50001	-3504	Black	115VAC	5 Vac/Vdc	X		X
066-01171	-3504	Black	115VAC	5 Vac/Vdc	X		X
066-50001	-3604	Gray	115VAC	5 Vac/Vdc	X		X
066-01171	-3604	Gray	115VAC	5 Vac/Vdc	X		X
066-50001	-3706	Black	115VAC	5 Vac/Vdc	X		X
066-01171	-3706	Black	115VAC	5 Vac/Vdc	X		X
066-50001	-8102	Gray	115VAC	5 Vac/Vdc			
066-01171	-8102	Gray	115VAC	5 Vac/Vdc			

TSO INFORMATION

The IVA 81A was tested to RTCA DO-160B.

IVA 81A P/N 066-50001-XXXX is certified to TSO C119a and C8c.

IVA 81A Environmental Certification is A2-C-A-PKS-XXXXXX-A-Z-A-E-Z-Z-Z-K (28Vdc unit).

The IVA 81C was tested to RTCA DO-160C.

IVA 81C P/N 066-50053-2704 and -2804 are certified to TSO C118, C119a, and C8d.

IVA 81C Environmental Certification is A2-C-A-P, B, S-XXXXXX-A-E, Z-A-E-Z-U-Z-K-X-X.

The IVA 81D was tested to RTCA DO-160D.

IVA 81D P/N 066-01171-XXXX is certified to TSO C118, C119b and C8d.

IVA 81D Environmental Certification is A2-C-A-U/F-F1, S/B2, S/M -XXXXXX-A-E, Z-A-E, Z-Z, U-M-E3-X-X-A.

STC INFORMATION

The IVA 81C P/N 066-50053-2704 and -2804 have been approved for installation on STC# ST00967CH revised 2/4/99. STC00967CH covers installation of the CAS 67A TCAS System with the IVA 81A and/or IVA 81C Indicators.

The IVA 81D was approved for installation on STC# ST01097CH-D. This STC covers the CAS 67A TCAS System and ACAS II System with IVA 81A, C, or D Indicators.

WIRING CONSIDERATIONS

The IVA 81A, IVA 81C, and IVA 81D wiring is identical, and no changes in plug configuration or system wiring are required.

Interchanging the IVA 81A, C, and D in the aircraft meets the guidelines called out in AC20-41A for like-TSO'd equipment.

As always, it is prudent to contact your local FAA representative and discuss these issues with them to assure there are no conflicts.