

# TCAS PPT Adapter Test Panel

ASI-743

## OEM Equivalent:

OEM: Bendix  
Model Number: AIT-4A  
Part Number: 8074503-0401  
Manual: I.B. 1104KT / 34-41-64  
Manual Figure: 1

This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

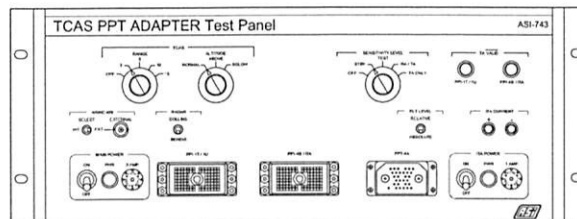
## Description:

The ASI-743 TCAS PPT Adapter Test Panel is used in conjunction with the ASI-174 (PPT-1B) or ASI-760 (PPT-4A) to test, align, and troubleshoot TCAS modified PPI-1T, PPI-1U, and PPI-4B Weather Radar Indicators and the ITA-81A Traffic Display. The ASI-743 interfaces to existing test cable harnesses and modification to existing test panels are not required.

The ASI-743 interfaces data and video signals from the existing test panel to the PPI-1T/-1U/-4B Weather Radar Indicator being tested. The necessary operating voltages for the PPI-1T/-1U/-4B are also interfaced through the ASI-743 to the PPI's. ITA-81A operating power is supplied directly from the ASI-743.

The ASI-743's internal TCAS 429 and ACARS 429 generator modules provide the 100 kHz 32 bit serial data required for testing the PPI radar indicators and the ITA-81A.

Four cables required for interconnection and testing of the PPI-1T, PPI-1U, PPI-4B, and ITA-81A are included with the ASI-174.



## Units Tested:

PPI-1T  
PPI-1U  
PPI-4B  
ITA-81A

## Specifications:

Height: 7.00" Width: 19.00" Depth: 13.00"  
Power Requirements: 115 VAC 400 Hz

## Equipment Supplied:

| ASI MN    | OEM PN       | Description                    |
|-----------|--------------|--------------------------------|
| ASI-74-3A | 8072626-0502 | Cable, ASI-743 to PPI-1T (W1)  |
| ASI-74-3B | 8072628-0502 | Cable, ASI-743 to PPI-1U (W2)  |
| ASI-74-3C | 8072625-0502 | Cable, ASI-743 to PPI-4B (W3)  |
| ASI-74-3D | 8057438-0501 | Cable, ASI-743 to ITA-81A (W4) |

## Optional Equipment:

| ASI MN  | OEM PN       | Description                            |
|---------|--------------|----------------------------------------|
| ASI-174 | 2038141-0501 | Radar Indicator Test Panel (PPT-1B)    |
| ASI-197 | 2041323-0101 | Radar Test Pattern Generator (PPT-1CG) |
| ASI-198 | 2039597-0501 | Radar Test Pattern Generator Adapter   |
| ASI-760 | 2041591-0401 | Radar Indicator Test Panel (PPT-4A)    |

# Radar Indicator Test Panel

ASI-760

## OEM Equivalent:

OEM: Bendix  
Model Number: PPT-4A  
Part Number: 2041591-0401  
Manual: I.B. 1104DT / 34-41-58  
Manual Figure: 1

This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

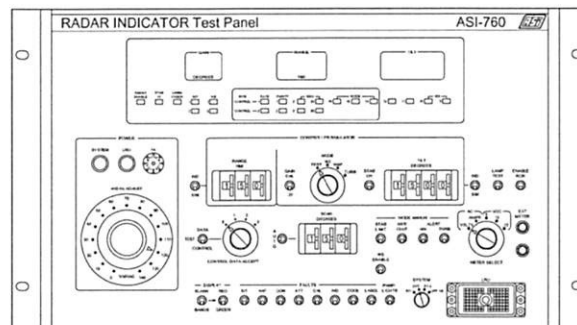
## Description:

The ASI-760 Radar Indicator Test Panel functions to test, align, and troubleshoot the PPI-4B Weather Radar Indicator without the use of an R/T or radar control (CON).

The Test Panel has the capability to receive and display ARINC 429 control words, and to generate and transmit ARINC 429 and 453 data words to the PPI-4B. The ARINC 453 words are generated from the ARINC 429 data received, or from internal circuits which can be manipulated using various front panel switches. The ASI-760 also provides and monitors power required to energize the PPI-4B being tested.

The ASI-760 can be used in conjunction with the ASI-743 (AIT-4A) to test PPI-4B Indicators with TCAS capability. An optional cable (ASI-76-0B) is also available that will enable the ASI-760 to test the CCA-4A Checklist Unit.

The ASI-760 includes the PPI-4B interconnect cable.



## Units Tested:

PPI-4B  
CCA-4A

## Specifications:

Height: 10.50" Width: 19.00" Depth: 13.00"  
Power Requirements: 115 VAC 400 Hz

## Equipment Supplied:

| ASI MN    | OEM PN       | Description                   |
|-----------|--------------|-------------------------------|
| ASI-76-0A | 2040030-0501 | Cable: ASI-760 to PPI-4B (W1) |

## Optional Equipment:

| ASI MN    | OEM PN       | Description                            |
|-----------|--------------|----------------------------------------|
| ASI-197   | 2041323-0101 | Radar Test Pattern Generator (PPT-1CG) |
| ASI-743   | 8074503-0401 | TCAS PPT Adapter Test Panel (AIT-4A)   |
| ASI-76-0B | 8073780-0001 | Cable: ASI-760 to CCA-4A               |
| ASI-76-0C | NPN          | Power Supply Load for PPI-1T/-1U/-4B   |

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