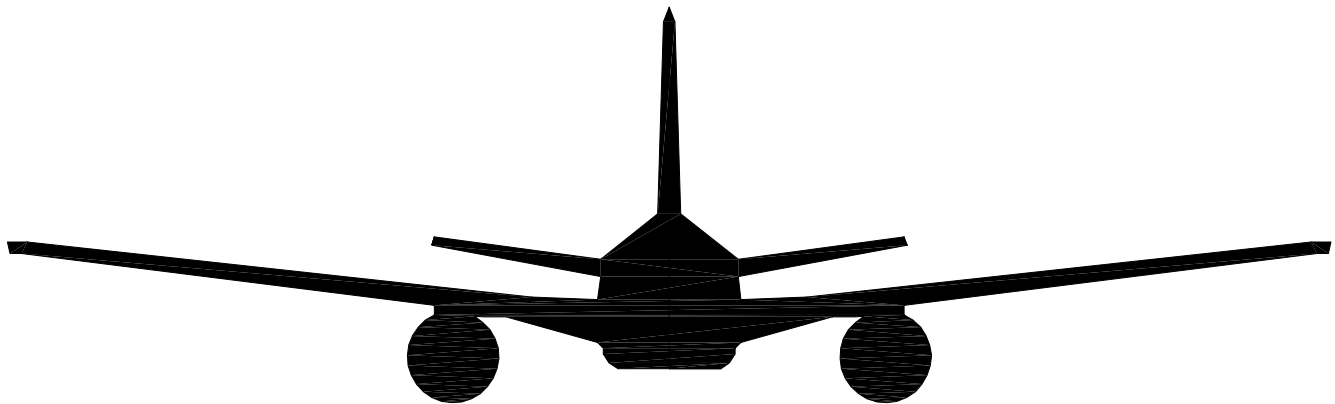




AVIONICS SPECIALIST, INC.



SPECIALIZED AVIONICS TEST EQUIPMENT CATALOG SUPPLEMENT

ALLIED-SIGNAL BENDIX EQUIVALENT TEST SYSTEMS



Avionics Specialist, Inc.

Specialized Avionics Test Equipment Product Catalog Supplement

Allied Signal Bendix Equivalent Test Systems

01-01-02

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01-01-02

ALLIED-SIGNAL BENDIX EQUIVALENT TEST SYSTEMS
01/01/02

<u>ASI MN</u>	<u>BENDIX MN</u>	<u>BENDIX PN</u>	<u>DESCRIPTION</u>	<u>LIST PRICE</u>
ASI-1207A	TS-1207A	4000595-0701	RADAR TEST SET	660.00
ASI-152-1	RDT-1F	1038139-0501	RADAR TEST PANEL	16,700.00
ASI-152-2	RDT-1FB	2041351-0102	RADAR TEST PANEL	18,030.00
ASI-153-1	ATT-1F	2038270-0501	RADAR ANTENNA TEST PANEL	11,670.00
ASI-153-2	ATT-1FB	2038270-0502	RADAR ANTENNA TEST PANEL	11,670.00
ASI-153-3	ATT-1FB	2038270-0503	RADAR ANTENNA TEST PANEL	26,550.00
ASI-153-4	ANT-1FBM	8056275-0501	SECTOR SCAN TEST ADAPTER	14,900.00
ASI-154-1	RCT-1F	2038326-0501	RADAR SYSTEM TEST PANEL	21,160.00
ASI-154-2	RCT-1FB	2041349-0102	RADAR SYSTEM TEST PANEL	22,290.00
ASI-169	RST-1A	2064746-0501	PORTABLE STABILIZATION TEST SET	5,310.00
ASI-169-2	RST-4A	2041797-0401	PORTABLE RADAR TEST SET	4,995.00
ASI-170	RFT-1A	2038142-0501	PORTABLE RADAR TEST SET	4,460.00
ASI-171	RDT-1A	2037736-0501	RADAR SYSTEM TEST PANEL	10,050.00
ASI-172	RDT-1B	2037737-0501	RADAR TEST PANEL	4,460.00
ASI-173	PPT-1A	2037738-0501	RADAR INDICATOR TEST PANEL	11,160.00
ASI-174	PPT-1B	2038141-0501	RADAR INDICATOR TEST PANEL	11,160.00
ASI-175	AMT-51A	2037028-5103	PORTABLE ALTIMETER TEST SET	5,580.00
ASI-175-2	AMT-52A	2041595-5201	PORTABLE ALTIMETER TEST SET	6,995.00
ASI-177-1	RNT-26A	2064139-0501	VHF NAVIGATION TEST PANEL	12,500.00
ASI-177-2	RNT-260A	3604031-0501	VOR/ILS TEST PANEL	12,500.00
ASI-197	PPT-1CG	2041323-0101	RADAR TEST PATTERN GENERATOR	2,440.00
ASI-198		2039597-0501	RADAR TEST PATTERN GEN ADAPTER	1,890.00
ASI-199	ALT-51A	2037120-0501	RADAR ALTIMETER TEST PANEL	27,350.00
ASI-202	DFT-73AA	2064943-0501	ADF SYSTEM TEST PANEL	9,360.00
ASI-244-1	PPT-1FB	2041350-0101	RADAR INDICATOR TEST PANEL	24,950.00
ASI-244-2	PPT-1FB	2041350-0102	RADAR INDICATOR TEST PANEL	29,950.00
ASI-244-3		2039817-0501	CON-1FB TEST ADAPTER	POR
ASI-244-4		8050799-0501	CON-1TB(M) TEST ADAPTER	POR
ASI-252-1	COT-1FB	2041348-0102	RADAR CONTROL TEST PANEL	8,880.00
ASI-252-2	COT-4A	2041593-0401	RADAR CONTROL TEST PANEL	12,500.00
ASI-360			RADAR SYSTEM TEST PANEL	7,260.00
ASI-413-1	RIT-32A	2070809-3201	ILS RECEIVER TEST PANEL	17,950.00
ASI-413-2	RIG-32A	2070776-3201	ILS AUDIO GENERATOR	7,950.00
ASI-420-1	RNT-34A	2041341-3401	RNA-34A ADAPTER PANEL	POR
ASI-420-2	ADT-34AF	3614307-3401	RNA-34AF ADAPTER PANEL	POR
ASI-422	CPT-83A	2041065-8301	GPW SYSTEM TEST PANEL	18,900.00
ASI-423-1	IUT-1SB	3614367-0101	AIU TEST PANEL	18,995.00
ASI-423-2	IUT-1MB	3614662-0101	CONTROL TEST PANEL	POR
ASI-424-1	RVT-33A	2070811-3301	VOR RECEIVER TEST PANEL	29,950.00
ASI-424-2	RVG-33A	2070810-3301	VOR AUDIO GENERATOR	11,950.00
ASI-425	RTT-41A	2037676-0501	TRANSCEIVER TEST PANEL	POR
ASI-741	RMT-4A	8055325-0401	DOPPLER SIGNAL GENERATOR	10,630.00
ASI-742	RCT-4A	2041589-0401	RADAR SYSTEM TEST PANEL	31,910.00
ASI-743	AIT-4A	8074503-0401	TCAS ADAPTER TEST PANEL	18,080.00
ASI-760	PPT-4A	2041591-0401	RADAR INDICATOR TEST PANEL	29,950.00
ASI-770	AST-4A	2041886-0401	RADAR ANTENNA SIMULATOR TEST PANEL	19,950.00
ASI-771	ATT-4A	2041592-0401	RADAR ANTENNA TEST PANEL	14,950.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

POR-PRICE ON REQUEST

ASI-152-1

<u>ASI MN</u>	<u>OEM PN</u>	<u>Description</u>
ASI-153-1	2038070-0501	ANT-1T Radar Ant Test Panel (ATT-1F)
ASI-154-1	2038326-0501	RDR-1F Radar System Test Panel (RCT-1F)
ASI-174	2038141-0501	PPI-1 Radar Indicator Test Panel (PPT-1B)

ASI-152-2

ASI MN	OEM PN	Description
ASI-153-1	2038070-0501	ANT-1T Radar Ant Test Panel (ATT-1FB)
ASI-154-1	2038326-0501	RDR-1F Radar System Test Panel (RCT-1FB)
ASI-244-1	2041350-0101	PPI-1FB Radar Indicator Test Panel (PPT-1FB)
ASI-252-1	2041348-0102	CON-1RB/SB Control Test Panel (COT-1FB)

ASI-169

<u>ASI MN</u>	<u>OEM PN</u>	<u>Description</u>
ASI-171	2037736-0501	Radar System Test Panel (RDT-1A)
ASI-172	2037737-0501	Radar Antenna Test Panel (RDT-1B)

ASI-169-2

[illegible]

<u>ASI MN</u>	<u>OEM PN</u>	<u>Description</u>
ASI-742	2041589-0401	Radar System Test Panel (RCT-4A)

ASI-170

A detailed diagram of the RS-700 portable micro-tester. The device has a rectangular body with a carrying handle on the left side. On the right side, there is a cable connected to a multi-pin connector. The front panel features a large rectangular window on the left. To the right of this window is a circular analog meter labeled "DC MICROAMPERES" with a scale from 0 to 100. Above the meter is the text "ABSOLUTE PORTABLE MICRO-TEST SET". Below the meter is a rotary switch with several positions: DB, MAG, TEST, FITCH, STAB DBR, OSC TEST, OFF, 28 VDC, 28 VAC, and AFD. At the bottom center of the front panel is the "RSI" logo.

<u>ASI MN</u>	<u>OEM PN</u>	<u>Description</u>
ASI-171	2037736-0501	Radar System Test Panel (RDT-1A)

ASI-171

ASI MN	OEM PN	Description
ASI-169	2064746-0501	Portable Stabilization Test Set (RST-1A)
ASI-172	2037737-0501	Radar Test Panel (RDT-1B)
ASI-173	2037738-0501	Radar Indicator Test Panel (PPT-1A)
ASI-174	2038141-0501	Radar Indicator Test Panel (PPT-1B)

ASI-172

Radar Indicator Test Panel

ASI-173

OEM Equivalent:

OEM: Bendix
Model Number: PPT-1A
Part Number: 2037738-0501
Manual: I.B. 1101PT
Manual Figure: 1

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

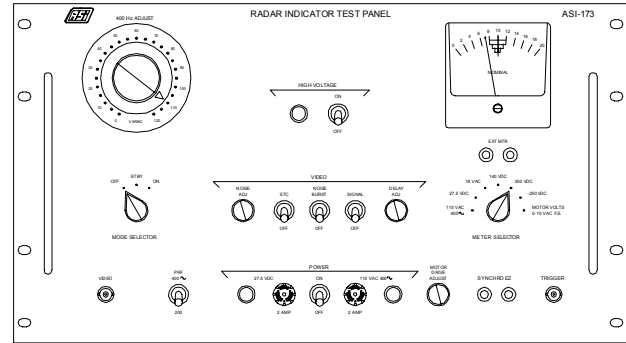
Description:

The ASI-173 Radar Indicator Test Panel is designed to facilitate bench testing, alignment, and troubleshooting of the Bendix PPI-1D, PPI-1E-2, PPI-1G, and PPI-1GT Radar Indicators. The test panel is intended to provide a centralized means of conveniently and accurately determining equipment performance with a minimum amount of ancillary test equipment.

The Radar Indicator Test Panel contains circuitry for applying a variety of video signals to the PPI-1(). These include video pulses, system noise, noise bursts, and noise with STC action. Front panel controls facilitate the performance of numerous tests to evaluate the operation of the PPI-1().

The ASI-173 contains the power supply and wave form generator used in a typical RDR-1E Receiver-Transmitter unit. The power supply provides 17.5, 50, 140, 300, and -250 vdc. The 18 vac reference phase voltage and variable control voltage to the drive motor are also generated by the test panel. The wave form generator emits trigger pulses at 200 and 400 Hz and provides the necessary gate voltage for producing noise bursts.

The ASI-173 includes two test cables required for proper operation.



Units Tested:

PPI-1D
PPI-1E-2
PPI-1G
PPI-1GT

Specifications:

Height: 10.50" Width: 19.00" Depth: 12.75"
Power Requirements: 115 VAC 400 Hz / 27.5 VDC

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-17-3A	NPN	Cable, ASI-173 to PPI-1() (W1)
ASI-17-3B	NPN	Cable, ASI-173 PWR (W2)

Optional Equipment:

ASI MN	OEM PN	Description
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Radar Indicator Test Panel

ASI-174

OEM Equivalent:

OEM: Bendix
Model Number: PPT-1B
Part Number: 2038141-0501
Manual: I.B. 1102DT / 34-42-54
Manual Figure: 1

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

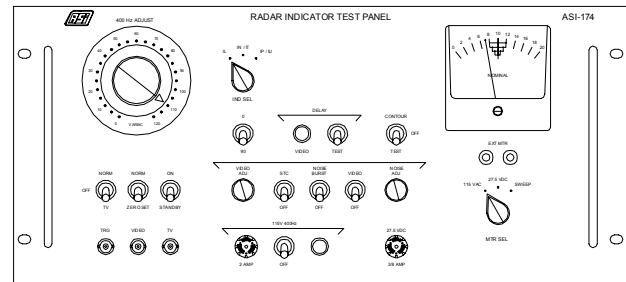
Description:

The ASI-174 Radar Indicator Test Panel provides a convenient, self-contained means for testing, alignment, and troubleshooting the Bendix PPI-1L, PPI-1N, PPI-1P, PPI-1T, and PPI-1U Weather Radar Indicators.

The ASI-174 contains power supply, wave form generator, and azimuth circuitry thus eliminating the need for other system components. Front panel controls facilitate the performance of numerous tests to evaluate the proper operation of the PPI-1().

When used in conjunction with the ASI-743 (AIT-4A) TCAS PPT Adapter Test Panel the ASI-174 has the capability to test TCAS modified PPI-1T and PPI-1U Indicators.

The ASI-174 includes three test cables required for proper operation.



Units Tested:

PPI-1L
PPI-1N
PPI-1P
PPI-1T
PPI-1U

Specifications:

Height: 8.75" Width: 19.00" Depth: 9.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-17-4A	2038283-0501	Cable: ASI-174 PWR (W101)
ASI-17-4B	2038284-0501	Cable: ASI-174 to PPI-1L/-1N/-1T (W102)
ASI-17-4C	2038816-0501	Cable: ASI-174 to PPI-1P/-1U (W103)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-197	2041323-0101	Radar Test Pattern Generator (PPT-1CG)
ASI-198	2039597-0501	Radar Test Pattern Generator Adapter
ASI-743	8074503-0401	TCAS PPT Adapter Test Panel (AIT-4A)

Portable Altimeter Test Set

ASI-175

OEM Equivalent:

OEM: Bendix
Model Number: AMT-51A
Part Number: 2037028-5103
Manual: I.B. 1151T
Manual Figure: 1

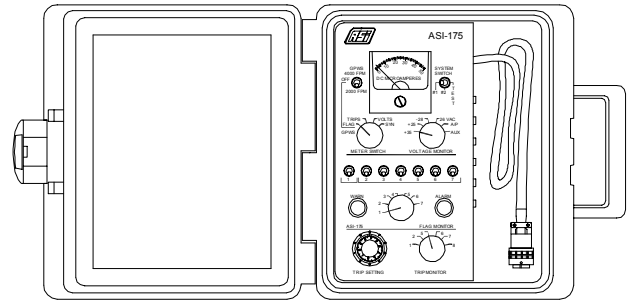
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-175 Portable Altimeter Test Set facilitates rapid testing for various functions of the Bendix ALA-51A altimeter. The Test Set is portable and may be used on the bench or in the aircraft.

The ASI-175 connects to the test plug on the front of the altimeter and quickly evaluates performance of the altimeter by monitoring and interpreting the outputs of various test points. The ASI-175 measures major power supply voltages and overall monitor performance by fault simulation. The Test Set also provides a swept altitude signal to check the operation of the altitude trips, it can initiate the test function, and provides the capability for checking the operation of the ground proximity warning system.

The Test Set is compact, lightweight, and enclosed in a sturdy plastic case. All power required to run the ASI-175 is supplied from the uut.



Units Tested:

ALA-51A

Specifications:

Height: 8.00" Width: 8.50" Depth: 4.00"
Power Requirements: From UUT

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-17-5A	2034175-0002	Test Procedure Placard

Optional Equipment:

ASI MN	OEM PN	Description
ASI-199	2037120-0501	Radio Altimeter Test Panel (ALT-51A)

Portable Altimeter Test Set

ASI-175-2

OEM Equivalent:

OEM: Bendix
Model Number: AMT-52A
Part Number: 2041595-5201
Manual: I.B. 1152BT / 34-42-01
Manual Figure: 1

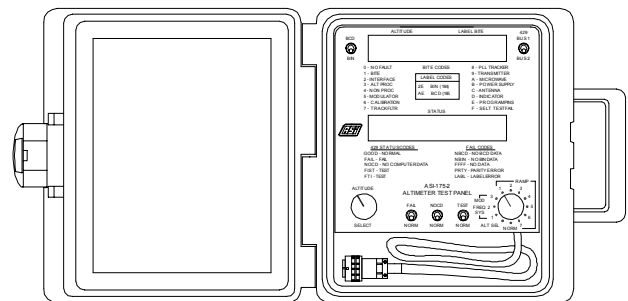
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-175-2 Altimeter Test Set is designed to facilitate the rapid testing of the various functions of the Bendix ALA-52A Radio Altimeter. The Test Set is portable and may be used either on the test bench or inside the aircraft.

The ASI-175-2 is capable of injecting simulated altitude frequencies into three altimeters simultaneously. The modulating frequencies (145,150, and 155 Hz) of the three altimeters can then be checked individually. The ASI-175-2 is also capable of simulating various rates of aircraft descent.

The ASI-175-2 receives the ARINC 429 altitude words from the altimeter under test and displays decoded altitude, along with the 429 word label and status. The Test Set can be set to read and decode either the binary or BCD 429 word from the altimeter. A functional self-test of the altimeter can be initiated at the test set. Built-in test equipment (BITE) results are displayed on the front panel annunciator.



Units Tested:

ALA-52A

Specifications:

Height: 8.00" Width: 8.50" Depth: 4.00"
Power Requirements: From UUT

Equipment Supplied:

ASI MN	OEM PN	Description
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Optional Equipment:

ASI MN	OEM PN	Description
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VHF Navigation Receiver Test Panel

ASI-177-1

OEM Equivalent:

OEM: Bendix
Model Number: RNT-26A
Part Number: 2064139-0501
Manual: I.B. 1126T
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-177-1 is designed to facilitate complete alignment, testing, and troubleshooting, of the Bendix RNA-26C and RNA-34A VHF Navigation Receivers.

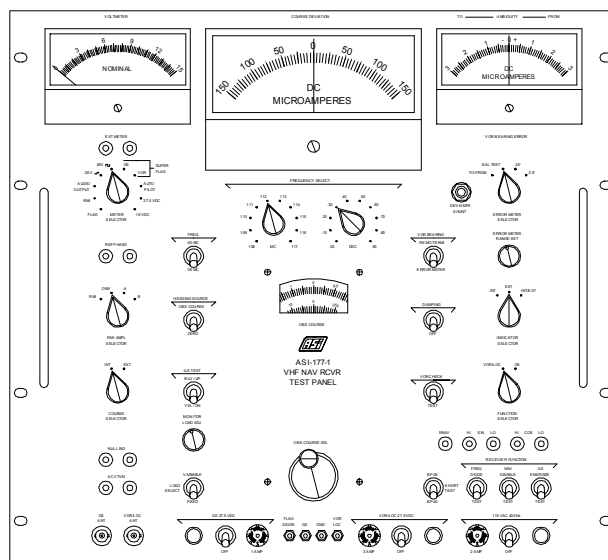
The ASI-177-1 contains all of the necessary controls, switches, synchros, and wiring to simulate a single system installation. Meters and load resistors provide correct loading and accurate readout of the VOR/LOC and GS instrumentation outputs. Optional equipment and RNA-26C module extender cables are listed below.

Optional Equipment:

ASI MN	OEM PN	Description
ASI-17-7C	2037551-0501	VHF Receiver Module RF Extender (W110)
ASI-17-7D	2037547-0501	VHF Receiver Module Extender (W111)
ASI-17-7E	2037549-0501	Power Supply Extender (W112)
ASI-17-7F	2037544-0501	LOC Module Extender (W113)
ASI-17-7G	2037546-0501	GS and LOC Monitor Module Ext (W114)
ASI-17-7H	2037545-0501	ILS Check Module Extender (W115)
ASI-17-7I	2037552-0501	RMI Servo Amp Module Extender (W116)
ASI-17-7J	2037551-0502	GS Receiver Module RF Extender (W117)
ASI-17-7K	2037548-0501	GS Receiver Module Extender (W118)
ASI-17-7L	2037159-0501	LOC Dummy Load Assy (A2)
ASI-17-7M	2037159-0502	GS Dummy Load Assy (A3)
ASI-413-2	2070776-3201	ILS Audio Generator (RIT-32A)
ASI-420-1	2041341-3401	RNA-34A Adapter Panel (RNT-34A)
ASI-420-2	3614307-3401	RNA-34AF Adapter Panel (ADT-34AF)
ASI-424-2	2070810-3301	VOR Audio Generator (RVG-33A)
ASI-502	NPN	VOR Omnbearing Reader (Control Wizard)

Units Tested:

RNA-26C RNA-26CF RNA-34A RNA-34AF



Specifications:

Height: 17.50" Width: 19.00" Depth: 14.00"
Power Requirements: 115 VAC 400 Hz / 28 VDC

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-17-7A	2037543-0501	RNA Test Cable (W105)
ASI-17-7B	2037550-0501	Resolver/Synchro Calibration Cable (W109)
ASI-17-7N	2037553-0501	Dummy Load Plug Assy (PR1)
ASI-17-7P16	MS3106F22-13S	ASI-177-1 Power Plug
ASI-17-7P5	MS3106F14-6S	ASI-177-1 Remote Heading Synchro Plug
ASI-17-7P6	DDM-50S	ASI-177-1 Remote OBS or Omni-Mag Plug
ASI-17-7P4	MS3106F20-27S	ASI-177-1 Remote RMI Plug

VOR/ILS System Test Panel

ASI-177-2

OEM Equivalent:

OEM: Bendix
Model Number: RNT-260A
Part Number: 3604031-0501
Manual: TO33D7-36-34-1
Manual Figure: 1-1

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

Description:

The ASI-177-2 VOR/ILS System Test Panel is a multi-function test panel used for testing and aligning airborne navigation receiver systems (AN/ARN-123 and AN/ARN-127). Interface connection facilities are provided for a navigation receiver, remote frequency control unit, and supporting test equipment including VOR and ILS audio generators, and RF signal generator. The test panel contains all the necessary controls, switches, synchros, and wiring to simulate a single system installation.

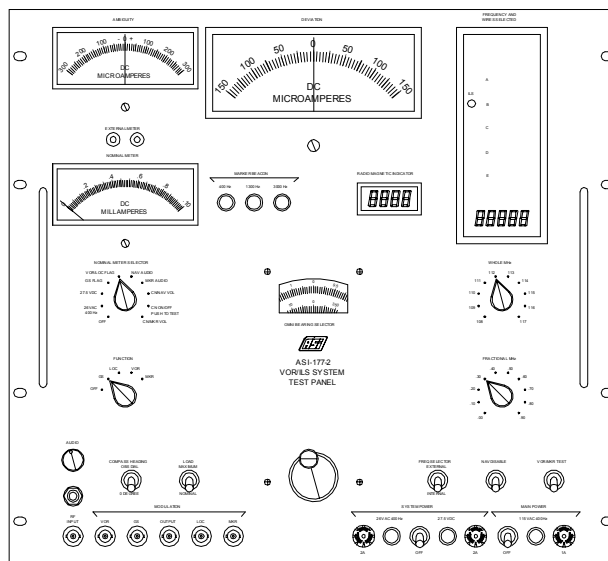
An integral frequency control unit is included for testing and aligning receivers without their associated control units. All VOR, LOC, GS and MB receiver outputs are accurately measured using precision meters and other high-quality indicators.

Optional Equipment:

ASI MN	OEM PN	Description
ASI-17-72G	NPN	Receiver (R-2023 / R-2139) Test Cable
ASI-17-72H	NPN	Control (C-10048 / C-10049) Test Cable
ASI-413-2	2070776-3201	ILS Audio Generator (RIG-32A)
ASI-424-2	2070810-3301	VOR Audio Generator (RVG-33A)

Units Tested:

AN/ARN-123 (R-2023 / R-2139 / C-10048 / C-10049)
AN/ARN-127 (R-2032 / C-10124 / C-10125 / C-10218 / C-10490)



Specifications:

Height: 17.50" Width: 19.00" Depth: 14.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-17-72A	3604050-0501	Receiver (R-2032) Test Cable (W12)
ASI-17-72B	3604049-0501	Control Unit Test Cable (W11)
ASI-17-72C	3604380-0501	Power Cable (W13)
ASI-17-72D	3604357-0501	GS Coax Cable
ASI-17-72E	3604357-0502	VOR/LOC Coax Cable
ASI-17-72F	3604357-0503	MB Coax Cable

Radar Test Pattern Generator

ASI-197

OEM Equivalent:

OEM: Bendix
Model Number: PPT-1CG
Part Number: 2041323-0101
Manual: I.B. 1102FT / 34-41-56
Manual Figure: 1

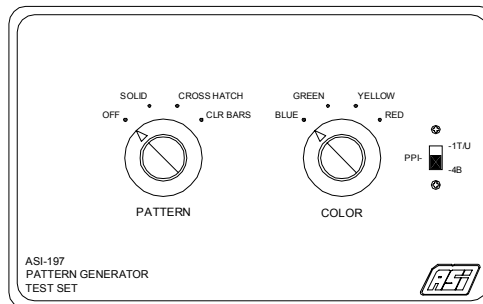
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-197 Radar Test Pattern Generator provides test patterns and color select signals required during testing of the PPI-1T, PPI-1U, and PPI-4B Radar Indicators. Testing of the PPI-1U requires the optional ASI-198 Radar Test Pattern Generator Adapter.

The ASI-197 generates crosshatch, color bars and solid color pattern test signals. The crosshatch and solid patterns can be displayed in any of four colors (Blue, Green, Yellow, Red). The color bar pattern displays all four colors simultaneously.

The ASI-197 also includes Mod 3 which allows testing of TCAS modified PPI-() Radar Indicators.



Units Tested:

PPI-1T
PPI-1U
PPI-1U(C)
PPI-4B

Specifications:

Height: 4.50" Width: 7.25" Depth: 2.00"
Power Requirements: From UUT

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-19-7A	NPN	Inline Test Connector, PPI-1()
ASI-19-7B	NPN	Inline Test Connector, PPI-4B

Optional Equipment:

ASI MN	OEM PN	Description
ASI-174	2038141-0501	Radar Indicator Test Panel (PPT-1B)
ASI-198	2039597-0501	Radar Test Pattern Generator Adapter
ASI-742	2041589-0401	Radar System Test Panel (RCT-4A)
ASI-760	2041591-0401	Radar Indicator Test Panel (PPT-4A)

Radar Test Pattern Generator Adapter

ASI-198

OEM Equivalent:

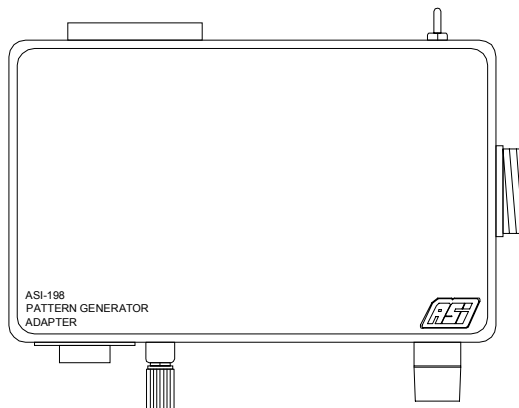
OEM: Bendix
Model Number:
Part Number: 2039597-0501
Manual: I.B. 1101U / 34-41-23
Manual Figure: 903.1 - 903.2 (TR34-27)

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

Description:

The ASI-198 Radar Test Pattern Generator Adapter is designed to adapt the ASI-197 (PPT-1CG) Radar Test Pattern Generator to the Bendix PPI-1U Radar Indicator during testing.

The ASI-197 interfaces the ASI-197 (PPT-1CG) to the checklist connector (J5103) of the PPI-1U Weather Radar Indicator. The Adapter also interfaces the checklist connector to standard ARINC control format for indicators equipped with a built-in control.



Units Tested:

PPI-1U

Specifications:

Height: 4.50" Width: 7.25" Depth: 2.00"
Power Requirements: 28 VDC

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-197	2041323-0101	Radar Test pattern Generator (PPT-1CG)

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)

Radar Altimeter Test Panel

ASI-199

OEM Equivalent:

OEM: Bendix
Model Number: ALT-51A
Part Number: 2037120-0501
Manual: I.B. 1151AT-1 / 34-10-15
Manual Figure: 1

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

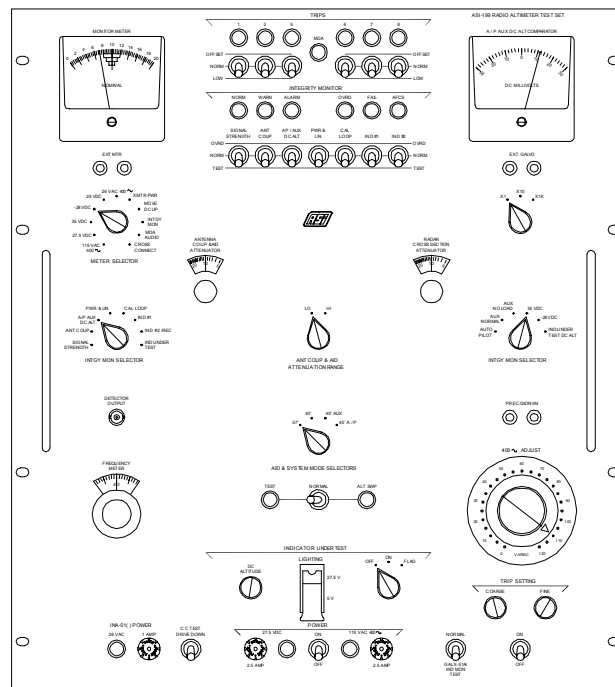
Description:

The ASI-199 Radio Altimeter Test Panel is designed to facilitate testing, adjustment, and troubleshooting of the Bendix ALA-51A Radio Altimeter and INA-51A/B/V Radio Altimeter Indicator.

The ASI-199 includes two main sections, a test panel (ASI-199-1) and a precision delay line (ASI-199-3). The ASI-199 includes all switching, metering, calibrated delays, attenuators, indicators and interconnecting cables required to operate and function test the ALA-51A Radio Altimeter System.

The Test Panel has provisions for connecting an INA-51 indicator under test in addition to connecting a test indicator to assist in the alignment and testing of the ALA-51A Radio Altimeter. Built in test features permit the servicing and calibration of indicators on the bench without the additional requirement of a known good ALA-51A Radio Altimeter.

The ASI-199 includes seven interconnecting test cables and two extender boards required testing for the ALA-51A and INA-51().



Equipment Supplied:

ASI MN	OEM PN	Description
ASI-199-1	2037120-0501	Test Panel
ASI-199-3	2068256-0701	Delay Line, 650 nS
ASI-19-9A	2037536-0501	Cable, ASI-199-1 to ALA-51A J1 (W101)
ASI-19-9B	2037533-0501	Cable, ASI-199-1 Power Input (W102)
ASI-19-9C	2037517-0501	Cable, ASI-199-1 to ALA-51 P1 (W103)
ASI-19-9D	2037535-0501	Cable, ASI-199-1 to INA-51 P1 (W104)
ASI-19-9E	2037554-0501	Cable, ASI-199-1 to INA-51 P1 (W105)
ASI-19-9G	2038137-0007	Cable, ASI-199-1 to ASI-199-3 (W112)
ASI-19-9H	2038137-0008	Cable, ASI-199-1 to ASI-199-3 (W114)
ASI-19-9I	2037075-0501	Extender Card, Narrow
ASI-19-9J	2037076-0502	Extender Card, Wide

Units Tested:

ALA-51A	INA-51B
INA-51A	INA-51V

Specifications:

Height: 21.00" Width: 19.00" Depth: 13.00"
Power Requirements: 115 VAC 400 Hz / 27.5 VDC

Optional Equipment:

ASI MN	OEM PN	Description
ASI-175	2037028-5103	Portable Altimeter Test Set (AMT-51A)

ADF System Test Panel

ASI-202

OEM Equivalent:

OEM: Bendix
Model Number: DFT-73AA
Part Number: 2064943-0501
Manual: I.B. 1073F
Manual Figure: 1

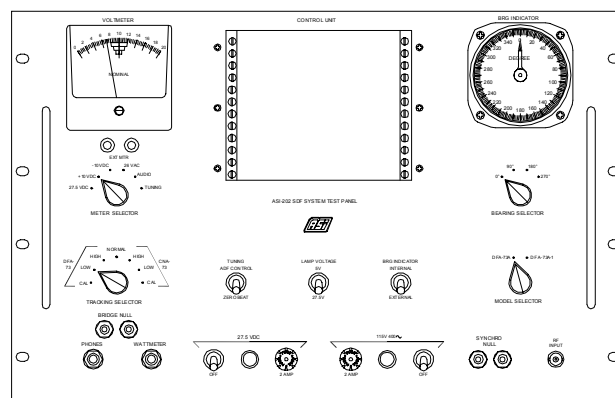
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-202 ADF System Test Panel is designed to facilitate testing, alignment, and troubleshooting of the Bendix DFA-73, DFA-74 ADF Receivers, and the CNA-73 ADF Control.

The ASI-202 contains circuitry which simulates a loop antenna, a sense antenna, and an antenna coupler. This circuitry converts the input from a signal generator to simulate a signal at zero degrees relative bearing, causing the ADF Indicator to display a reading of zero degrees. Voltage division is provided by the simulating circuitry so that the RF input to the ADF Receiver can be read directly in microvolts per meter at the output of the RF signal generator.

A panel mounted ADF control (user supplied) provides functions not contained in the ASI-202 such as tuning, volume, function selection, band switching, manual loop control, and voice or cw selection. The ASI-202 comes equipped with an ADF Bearing Indicator and also includes three test cables (Loop, Sense, and UUT).



Units Tested:

DFA-73A	CNA-73A	CNA-73D
DFA-73A-1	CNA-73B/BB	CNA-73E
DFA-74A	CNA-73C/CB	CNA-73FB/FC/FD

Specifications:

Height: 12.25" Width: 19.00" Depth: 10.00"
Power Requirements: 115 VAC 400 Hz / 27.5 VDC

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-20-2A	2064756-0501	Cable, DFA-73/74 (W101)
ASI-20-2B	2065211-0501	Cable, Sense (W102)
ASI-20-2C	2064754-0501	Cable, Loop (W103)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-20-2D	2065171-0501	Cable, CNA-73CB/FC/FD (W106)
ASI-20-2E	2065171-0502	Cable, CNA-73FB (W107)

PPI-1TB Radar Indicator Test Panel

ASI-244-1

OEM Equivalent:

OEM: Bendix
Model Number: PPT-1FB
Part Number: 2041350-0101
Manual: I.B. 1103BT-1 / 34-43-09
Manual Figure: 1

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

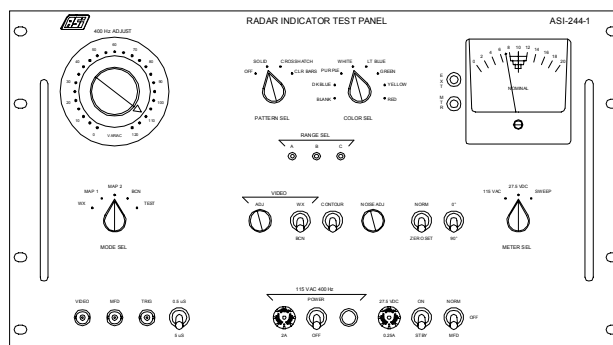
Description:

The ASI-244-1 Radar Indicator Test Panel is designed to facilitate testing, alignment, and troubleshooting of the Bendix PPI-1TB Weather Radar Indicator and CON-1FB SKE Range Selector.

The Test Panel contains a power supply, video generator, pattern generator, color generator, and azimuth circuitry, thus eliminating the need for other system components during testing of the PPI-1TB Radar Indicator.

The ASI-244-1 includes the PPI-1TB interconnect cable (ASI-24-4A) and the CON-1FB Test Adapter (ASI-244-3).

Test panels designed to test other units of the RDR-1FB Weather Radar System are also available from Avionics Specialist, Inc. These test panels are listed in the optional equipment section below.



Units Tested:

PPI-1TB
CON-1FB

Specifications:

Height: 10.50" Width: 19.00" Depth: 17.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-24-4A	2039608-0502	Cable, ASI-244-1 to PPI-1TB (W101)
ASI-244-3	2039817-0501	CON-1FB Test Adapter (W102)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-152-2	2041351-0102	RDR-1FB Radar Test Panel (RDT-1FB)
ASI-153-2	2038270-0502	ANT-1TB Radar Antenna Test Panel (ATT-1FB)
ASI-154-2	2041349-0102	RDR-1FB Radar System Test Panel (RCT-1FB)

PPI-1TB(M) Radar Indicator Test Panel

ASI-244-2

OEM Equivalent:

OEM: Bendix
Model Number: PPT-1FB
Part Number: 2041350-0102
Manual: I.B. 1103BT-1 / 34-43-09
Manual Figure: 1

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

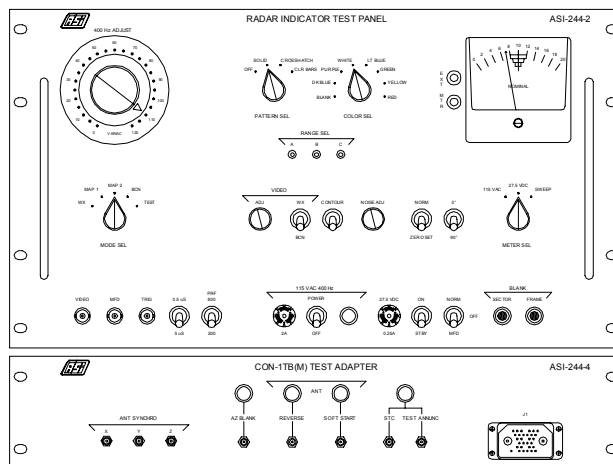
Description:

The ASI-244-2 Radar Indicator Test Panel is designed to facilitate testing, alignment, and troubleshooting of the Bendix PPI-1TB(M) Weather Radar Indicator and CON-1TB(M) Ant Azimuth Control.

The Test Panel contains a power supply, video generator, pattern generator, color generator, and azimuth circuitry, thus eliminating the need for other system components during testing of the PPI-1TB(M) Radar Indicator. The ASI-244-2 also contains an azimuth motor drive board which simulates the ANT-1TB(M) sector scan antenna movement. This added circuitry, in conjunction with the ASI-244-4 Test Adapter, allows testing of the CON-1TB(M) Antenna Azimuth Control.

The ASI-244-2 includes the PPI-1TB(M) interconnect cable (ASI-24-42A), CON-1TB(M) Test Adapter (ASI-244-4) and cable (ASI-24-42B).

Test panels designed to test other units of the RDR-1FB(M) Weather Radar System are also available from Avionics Specialist, Inc. These test panels are listed in the optional equipment section below.



Units Tested:

PPI-1TB
PPI-1TB(M) CON-1TB(M)

Specifications:

Height: 10.50" Width: 19.00" Depth: 17.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-24-42A	2039608-0502	Cable, ASI-244-2 to PPI-1TB(M) (W101)
ASI-24-42B	8056285-0501	Cable, ASI-244-4 to CON-1TB(M) (W101)
ASI-244-4	8050799-0501	CON-1TB(M) Test Adapter

Optional Equipment:

ASI MN	OEM PN	Description
ASI-152-2	2041351-0102	RDR-1FB Radar Test Panel (RDT-1FB)
ASI-153-3	2038270-0503	ANT-1TB Radar Antenna Test Panel (ATT-1FB)
ASI-154-2	2041349-0102	RDR-1FB Radar System Test Panel (RCT-1FB)

Radar Control Test Panel

ASI-252-1

OEM Equivalent:

OEM: Bendix
Model Number: COT-1FB
Part Number: 2041348-0102
Manual: I.B. 1103DT-1 / 34-43-11
Manual Figure: 1

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

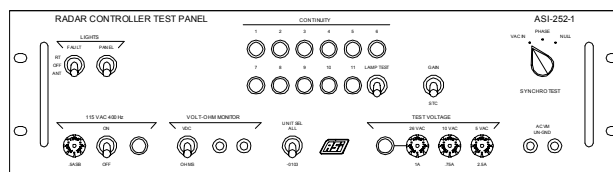
Description:

The ASI-252-1 Radar Control Test Panel is designed to test and troubleshoot Bendix CON-1RB/SB Radar Controls. The test panel also has functions required to test the CON-1RB(M) / CON-1SB(M) which have variable STC capability.

The Test Panel supplies the radar control with voltages required for function tests and provides a visual continuity check verifying the correct operation of the control's switches, controls, and wiring.

The ASI-252-1 includes a control test cable (ASI-15-2A) and test panel power cable (ASI-25-2B).

Test panels designed to test other units of the RDR-1FB Weather Radar System are listed in the optional equipment section below.



Units Tested:

CON-1RB CON-1SB
CON-1RB(M) CON-1SB(M)

Specifications:

Height: 5.25" Width: 19.00" Depth: 12.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-25-2A	2041579-0502	Cable, ASI-252-1 to CON-1 (W101)
ASI-25-2B	2041580-0501	Cable, ASI-252-1 Power (W102)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-152-2	2041351-0102	RDR-1FB Radar Test Panel (RDT-1FB)
ASI-153-2	2038270-0502	ANT-1TB Radar Ant Test Panel (ATT-1FB)
ASI-154-2	2041349-0102	RDR-1FB Radar System Test Panel (RCT-1FB)
ASI-244-2	2041350-0102	PPI-1TB Radar Indicator Test Panel (PPT-1FB)

Radar Control Test Panel

ASI-252-2

OEM Equivalent:

OEM: Bendix
Model Number: COT-4A
Part Number: 2041593-0401
Manual: I.B. 1104ET / 34-41-59
Manual Figure: 1

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

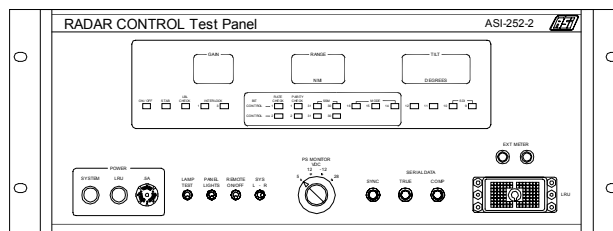
Description:

The ASI-252-2 Radar Control Test Panel is designed to provide the functions and capabilities necessary to test the Bendix CON-4A/B Radar Control separated from its operational environment. The test panel receives and decodes ARINC 429 control data and provides power to the CON-4() under test. The test panel thus substitutes its functions for those of the R/T, providing a surrogate operational environment.

The ASI-252-2 receives and decodes ARINC 429 control words 1 and 2 from the CON-4() and displays the decoded data on the front panel seven segment displays and LED's.

The ASI-252-2 includes two cables required for proper operation.

Test panels designed to test other units of the RDR-4A Weather Radar System are also available from Avionics Specialist, Inc. These test panels are listed in the optional equipment section below.



Units Tested:

CON-4A
CON-4B

Specifications:

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

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-25-2A	2040035-0501	Cable, ASI-252-2 to CON-4A/B (W1)
ASI-25-2B	2040020-0501	Cable, ASI-252-2 Power (W8)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-169-2	2041797-0401	RDR-4A Portable Radar Test Set (RST-4A)
ASI-742	2041589-0401	RDR-4A Radar System Test Panel (RCT-4A)
ASI-760	2041591-0401	PPI-4B Radar Indicator Test panel (PPT-4A)
ASI-771	2041592-0401	DAA-4A/B Radar Antenna Test Panel (ATT-4A)

R2

Radar System Test Panel

ASI-360

OEM Equivalent:

OEM: Bendix
Model Number:
Part Number:
Manual:
Manual Figure:

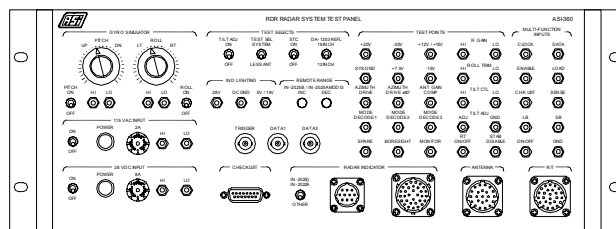
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-360 Radar System Test Panel provides a self contained means of testing the Bendix RDR-1X0/1XX0 series of Weather Radar Systems. The ASI-360 directly replaces the radar system test harness shown in the various RDR manuals.

The ASI-360 includes a gyro simulator, test points, switching, power and interconnection required to test the RDR systems.

The ASI-360 includes four interface cables required to interconnect the RT, Antenna, and Indicator for testing.



Units Tested:

RDR-130 (RT-131A / AT-133A / DA-144A / IN-2026A / IN-132A / IN-152A)
RDR-140 (RT-1201A / AT-143A / IN-1202A)
RDR-150 (RT-131A / IN-2026A)
RDR-160 (ART-161A / IN-152A / IN-2026A)
RDR-1100 (RT-131A / DA-1203A / IN-2027A)
RDR-1150 (RT-1151A / DA-1203A / IN-1152A/B)
RDR-1200 (RT-1201A / DA-1203A / IN-1202A)
RDR-1300 (RT-1301A / RT-1301B / DA-1203A / IN-2022A)
RDR-1400B (RT-1401B / DA-1203A / IN-2025A)
RDR-1400C (RT-1401B / DA-1203A / IN-2025B)

Specifications:

Height: 7.00" Width: 19.00" Depth: 6.00
Power Requirements: 115 VAC 400 Hz / 27.5 VDC

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-36-0A	NPN	Cable, ASI-360 to RT
ASI-36-0B	NPN	Cable, ASI-360 to Antenna
ASI-36-0C	NPN	Cable, ASI-360 to Indicator
ASI-36-0D	NPN	Cable, ASI-360 to Indicator (Multifunction)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-36-0E	NPN	Cable, ASI-360 to ART-161A
ASI-1207A	4000595-0701	Radar Test Set (TS-1207A)

Radar Test Set

ASI-1207A

OEM Equivalent:

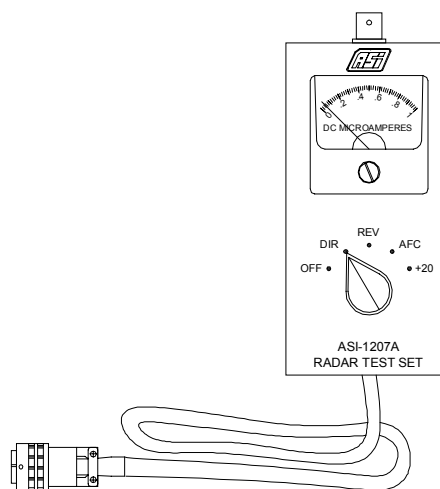
OEM: Bendix
Model Number: TS-1207A
Part Number: 4000595-0701
Manual: I.B. 21200A Part 4
Manual Figure: 1-1, 1-2

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

Description:

The ASI-1207A Radar Test Set is a portable test unit designed to interface with the Bendix RT-1201/1301/1401 Receiver Transmitter.

The Test Set cable plugs into the R/T ATE connector. A function switch selects the input parameters to the test set meter for monitoring purposes. Functions monitored include crystal currents and +20 VDC power supply. The analog video output of the receiver is also available at the BNC connector located on the top of the test set. This analog video output is always available and is independent of the function selector switch position.



Units Tested:

RT-1201A
RT-1301A / RT-1301B
RT-1401A / RT-1401B

Specifications:

Height: 5.00" Width: 2.25" Depth: 2.25"
Power Requirements: From UUT

Equipment Supplied:

ASI MN	OEM PN	Description
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Optional Equipment:

ASI MN	OEM PN	Description
ASI-360	NPN	RDR Radar System Test Panel

ILS Receiver Test Panel

ASI-413-1

OEM Equivalent:

OEM: Bendix
Model Number: RIT-32A
Part Number: 2070809-3201
Manual: I.B. 1132AT / 34-36-01
Manual Figure: 1

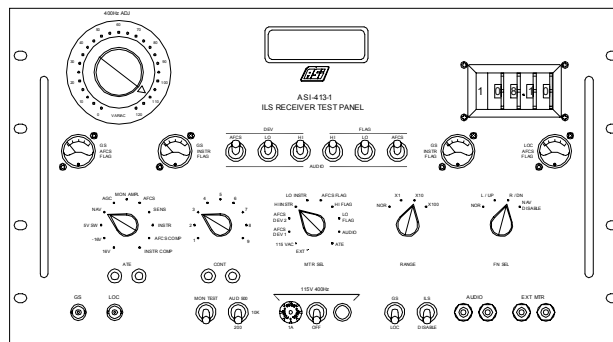
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-413-1 ILS Receiver Test Panel is designed to facilitate testing, alignment, and troubleshooting of the Bendix RIA-32A ILS Navigation Receiver.

The ASI-413-1 contains all necessary loads and switches required to simulate a single system installation required by the RIA-32A Receiver. In addition, meters and switches are provided to accurately measure all of the output voltages and currents from the RIA-32A instrumentation circuits as well as from the ATE connector.

The ASI-413-1 includes the interconnecting cable (ASI-41-31A) required for testing the RIA-32A.



Units Tested:

RIA-32A

Specifications:

Height: 15.00" Width: 19.00" Depth: 10.50"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-41-3A	2038683-0501	Cable, ASI-413-1 to RIA-32A (W101)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-413-2	2070776-3201	ILS Audio Generator (RIG-32A)

ILS Audio Generator

ASI-413-2

OEM Equivalent:

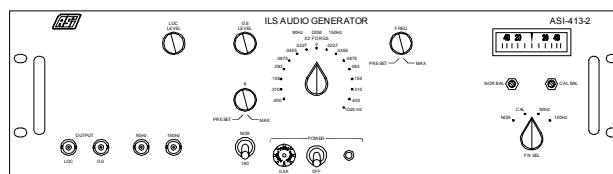
OEM: Bendix
Model Number: RIG-32A
Part Number: 2070776-3201
Manual: I.B. 1132AT / 34-36-02
Manual Figure: 1

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

Description:

The ASI-413-2 ILS Generator is designed as a primary modulation standard to test and calibrate airborne ILS receivers including the Bendix RIA-32A and RNA-34A.

The ASI-413-2 provides the stable, precision 90 and 150 Hz tone signals required to modulate RF signal generators used for testing and alignment of airborne ILS receivers. The design of the unit allows flexibility for interfacing with existing RF signal generators. The 90 and 150 Hz localizer and glide slope modulation signals, generated by the ASI-413-2, have a high degree of frequency and amplitude stability, which is maintained by an automatic calibration loop. Front panel switching is provided for selection of various differences in the depth of modulation (DDM) test signals for both localizer and glide slope functions.



Units Tested:

RIA-32A
RNA-34A

Specifications:

Height: 5.25" Width: 19.00" Depth: 12.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
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Optional Equipment:

ASI MN	OEM PN	Description
ASI-177-1	2064139-0501	VHF Receiver Test Panel (RNT-26A)
ASI-413-1	2070809-3201	ILS Receiver Test Panel (RIT-32A)
ASI-420-1	2041341-3401	VHF Receiver Test Panel (RNT-34A)

R1

VHF Navigation Receiver Test Panel

ASI-420-1

OEM Equivalent:

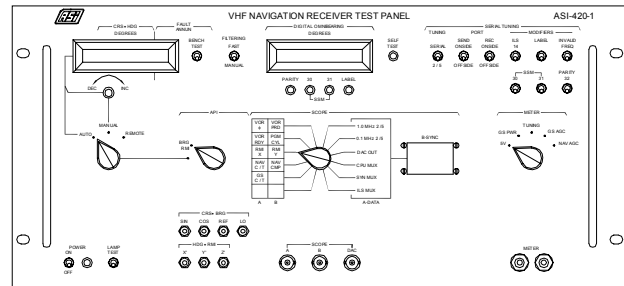
OEM: Bendix
Model Number: RNT-34A
Part Number: 2041341-3401
Manual: I.B. 1134AT / 34-55-03
Manual Figure: 1

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

Description:

The ASI-420-1 VHF Navigation Test Panel works in conjunction with the ASI-177-1 (RNT-26A) in order to check the digital input/output features that are contained in the Bendix RNA-34A VHF Navigation Receiver. These features were not present in the ARINC 547 VHF receivers such as the RNA-26C. The ASI-177-1 (RNT-26A) Test Panel is used to test the basic features of the RNA-34A.

The ASI-420-1 includes three interconnect cables required to interface the two test panels to the RNA-34A.



Units Tested:

RNA-34A

Specifications:

Height: 8.75" Width: 19.00" Depth: 10.00"
Power Requirements: 115 VAC 60 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-42-01A	2039388-0501	Cable, ATE (W1)
ASI-42-01B	2039389-0501	Cable, RNA-34A (W2)
ASI-42-01C	2039446-0501	Cable, API (W3)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-177-1	2064139-0501	VHF Receiver Test Panel (RNT-26A)
ASI-413-2	2070776-3201	ILS Audio Generator (RIT-32A)
ASI-424-2	2070810-3301	VOR Audio Generator (RVG-33A)

VHF Navigation Receiver Test Panel

ASI-420-2

OEM Equivalent:

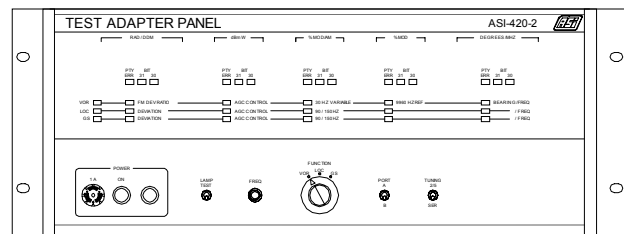
OEM: Bendix
Model Number: ADT-34AF
Part Number: 3614307-3401
Manual: I.B. 1134CT / 34-55-06
Manual Figure: 1

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

Description:

The ASI-420-2 VHF Navigation Test Panel works in conjunction with the ASI-177-1 (RNT-26A) in order to check the digital input/output features that are contained in the Bendix RNA-34AF Flight Inspection VOR/ILS Receiver. These features were not present in the ARINC 547 VHF receivers such as the RNA-26C. The ASI-177-1 (RNT-26A) Test Panel is used to test the basic features of the RNA-34AF.

The ASI-420-2 includes the interconnect cable required to interface the two test panels to the RNA-34AF.



Units Tested:

RNA-34AF

Specifications:

Height: 8.75" Width: 19.00" Depth: 13.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-42-02A	2040968-0501	Cable: RNA-34AF (W101)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-177-1	2064139-0501	VHF Receiver Test Panel (RNT-26A)

GPW System Test Panel

ASI-422

OEM Equivalent:

OEM: Bendix
Model Number: CPT-83A
Part Number: 2041065-8301
Manual: I.B. 1183F / 34-46-07
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-422 Ground Proximity Warning System Test Panel is designed to facilitate testing and troubleshooting of the Bendix CPA-83A Computer and the PRA-83 Pressure Rate Sensor. When combined with standard commercial test equipment it provides all necessary test facilities for proper maintenance and calibration of the GPW-83 Ground Proximity Warning System.

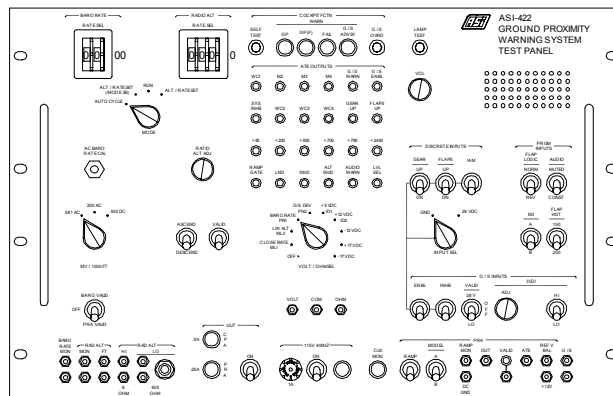
The ASI-422 simulates an aircraft flight path at any altitude below 2600 feet. the test panel provides warning indicators that monitor the five modes of operation of the CPA-83A:

1. Excessive sink-rate with respect to terrain.
2. Excessive terrain closure rate.
3. Descent after take off.
4. Insufficient clearance, not in landing configuration.
5. Deviation below glide path.

Additional circuits, warning indicators, and an internal speaker monitor the visual and aural outputs of the CPA-83A.

The ASI-422 also provides primary power and altitude information to allow for functional testing of the PRA-83A/B.

The ASI-422 includes two cables required for proper operation.



Units Tested:

GPW-83 Ground Proximity Warning System
CPA-83A
PRA-83A
PRA-83B

Specifications:

Height: 12.25" Width: 19.00" Depth: 13.25"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-42-2A	NPN	Cable, ASI-422 to CPA-83A (W101)
ASI-42-2B	NPN	Cable, ASI-422 to PRA-83A/B (W102)

Optional Equipment:

ASI MN	OEM PN	Description
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AIU Test Panel

ASI-423-1

OEM Equivalent:

OEM: Bendix
Model Number: IUT-1SB
Part Number: 3614367-0101
Manual: I.B. 1103GT / 34-41-07 / TO 33D7-50-716-2
Manual Figure: 1

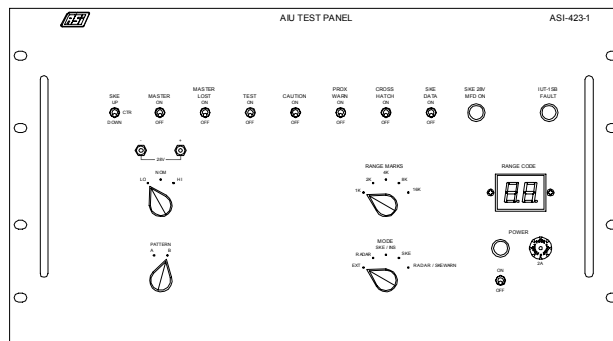
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-423-1 Test Panel is designed to facilitate testing, alignment, and troubleshooting of the Bendix IUA-1SB Auxiliary Interface Unit (AIU) which is part of the airborne Station Keeping Equipment (SKE).

The ASI-423-1 provides the capability to fully function test the IUA-1SB. The test set uses the IP-1374/APS-133(V) Radar Indicator (PPI-1TB) and appropriate test equipment when testing the AIU. It provides power to the AIU and test indicator, and simulates aircraft SKE input to the AIU.

the ASI-423-1 includes four test cables required for operation.



Units Tested:

IUA-1SB

Specifications:

Height: 10.50" Width: 19.00" Depth: 15.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-42-31A	2040661-0501	Cable, ASI-423 to IUT-1TB (W4)
ASI-42-31B	2040662-0501	Cable, ASI-423 to IUA-1SB (W6)
ASI-42-31C	2040663-0501	Cable, ASI-423 to IUA-1SB (W7)
ASI-42-31D	2040840-0501	Cable, ASI-423 to PPI-1TB (W8)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-154-2	2041349-0102	Radar System Test Panel (RCT-1FB)
ASI-244-1	2041350-0101	Radar Indicator Test Panel (PPT-1FB)
ASI-423-2	3614662-0101	Control Test Panel (IUT-1MB)

VOR Receiver Test Panel

ASI-424-1

OEM Equivalent:

OEM: Bendix
Model Number: RVT-33A
Part Number: 2070811-3301
Manual: I.B. 1133AT / 34-55-01
Manual Figure: 1

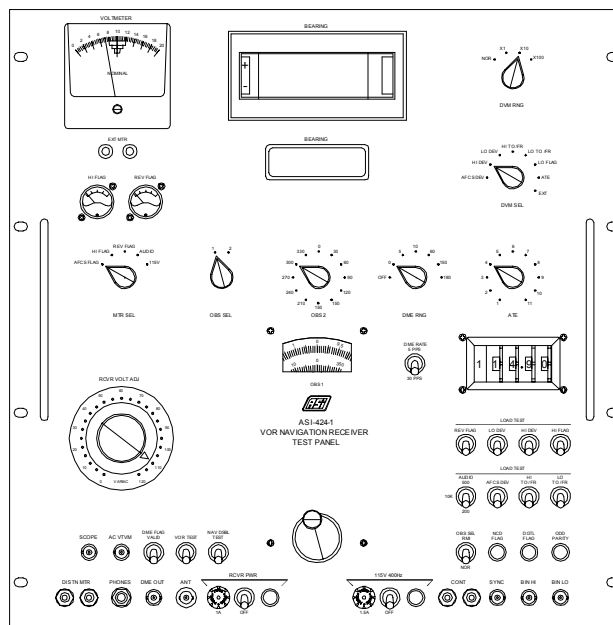
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-424-1 VOR Receiver Test Panel is used for testing, aligning, and troubleshooting the Bendix RVA-33A VOR Navigation Receiver.

The ASI-424-1 contains all the necessary loads, switches, and circuitry to process the VOR input/output signals required for single system aircraft installation utilizing the RVA-33A Receiver. In addition, meters and switches are provided to accurately measure all of the output voltages and currents from the RVA-33A instrumentation circuits as well as from the ATE connector.

The ASI-424-1 includes the interface cable (ASI-42-4A) required for testing the RVA-33A.



Units Tested:

RVA-33A

Specifications:

Height: 19.25" Width: 19.00" Depth: 16.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-42-4A	2038692-0501	Cable, ASI-424-1 to RVA-33A (W101)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-424-2	2070810-3301	VOR Audio Generator (RVG-33A)

VOR Audio Generator

ASI-424-2

OEM Equivalent:

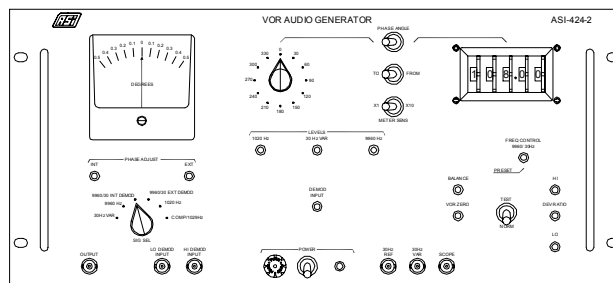
OEM: Bendix
Model Number: RVG-33A
Part Number: 2070810-3301
Manual: I.B. 1133BT / 34-55-02
Manual Figure: 1

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

Description:

The ASI-424-2 VOR Audio Generator is designed to facilitate testing and adjustment of conventional airborne VOR navigation receivers including the Bendix RVA-33A and RNA-34A.

The ASI-424-2 used in conjunction with an RF signal generator supplies the standard 30 Hz variable, 9960 Hz FM, and 1020 Hz signals encountered during airborne vhf omnidirectional range (VOR) operation. These signals are provided individually and in combinations for testing purposes.



Units Tested:

RVA-33A
RNA-34A

Specifications:

Height: 8.75" Width: 19.00" Depth: 10.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
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Optional Equipment:

ASI MN	OEM PN	Description
ASI-177-1	2064139-0501	VHF Receiver Test Panel (RNT-26A)
ASI-420-1	2041341-3401	VHF Receiver Test Panel (RNT-34A)
ASI-424-1	2070811-3301	VOR Receiver Test Panel (RVT-33A)

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.

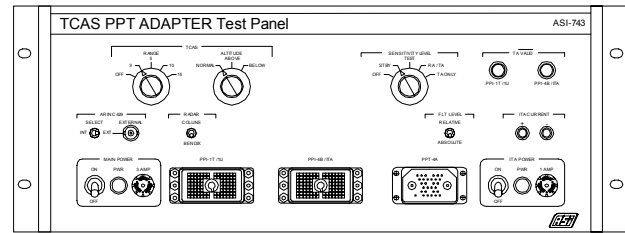
Description:

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.

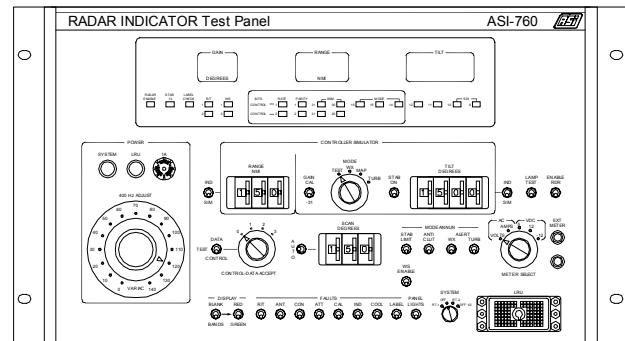
Description:

The ASI-760 Radar Indicator Test Panel is designed 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

Radar Antenna Simulator Test Panel

ASI-770

OEM Equivalent:

OEM: Bendix
Model Number: AST-4A
Part Number: 2041886-0401
Manual: I.B. 1104FT / 34-41-60
Manual Figure: 1

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

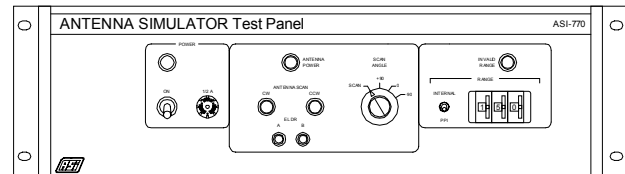
Description:

The ASI-770 Radar Antenna Simulator Test Panel is designed to replace the Bendix DAA-4A Antenna Drive Unit in the RDR-4A Radar System test environment

The ASI-770 simulates the motor load, mechanical response, and synchro outputs of the antenna drive unit. It responds to elevation and scan drive signals, originating at the RTA-4A Receiver-Transmitter, by feeding back simulated synchro output signals that are representative of the antenna azimuth and elevation motors.

The Test Panel also has the capability of simulating all valid ranges the the RTA-4A responds to, as well as the invalid ranges which the RTA-4A does not respond to. A warning light on the front of the panel comes on when an invalid range is selected at the ASI-770.

The ASI-770 is supplied with two cables required for interface and proper operation.



Units Tested:

RDR-4A Weather Radar System
RTA-4A

Specifications:

Height: 5.25" Width: 19.00" Depth: 13.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-77-0A	2040331-0501	Cable, ASI-770 to ASI-742 / RCT-4A (W101)
ASI-77-0B	2040020-0501	Cable, ASI-770 PWR (W108)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-742	2041589-0401	Radar System Test Panel (RCT-4A)

Radar Antenna Test Panel

ASI-771

OEM Equivalent:

OEM: Bendix
Model Number: ATT-4A
Part Number: 2041592-0401
Manual: I.B. 1104CT / 34-41-57
Manual Figure: 1

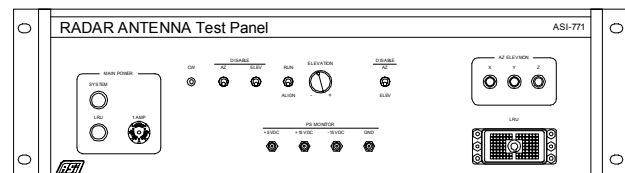
This unit is manufactured to replace the OEM MN, PN, and/or manual figure listed in Form, Fit, and Function.

Description:

The ASI-771 Radar Antenna Test Panel is designed to facilitate alignment, testing, and troubleshooting of the Bendix DAA-4A Drive Unit/REA-4() Planer Array Radar Antenna.

The ASI-771 contains circuitry to convert the azimuth synchro transmitter input of the DAA-4A/REA-4() and DAA-4B Radar Antenna into a DC signal which varies with the changing position at the antenna. This DC signal is further processed to control the azimuth drive of the radar antenna through a limited azimuth scan (approx. 120°). The ASI-771 also has the ability to vary the elevation of the antenna in tilt up or tilt down.

The ASI-771 is supplied with four cables required for interface and proper operation.



Units Tested:

DAA-4A
DAA-4B
REA-4()

Specifications:

Height: 5.25" Width: 19.00" Depth: 13.00"
Power Requirements: 115 VAC 400 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-77-1A	2040083-0501	Cable: ASI-771 to DAA-4A (W1)
ASI-77-1B	2040082-0501	Cable: ASI-771 to API (W2)
ASI-77-1C	2040981-0501	Cable: ASI-771 to DAA-4B (W3)
ASI-77-1D	2040020-0501	Cable: ASI-771 PWR (W8)

Optional Equipment:

ASI MN	OEM PN	Description
ASI-742	2041589-0401	Radar System Test Panel (RCT-4A)
ASI-760	2041591-0401	Radar Indicator Test Panel (PPT-4A)
ASI-169-2	2041793-0401	Radar Test Set (RST-4A)
ASI-252-2	2041593-0401	Radar Control Test Panel (COT-4A)