

Doppler Signal Generator

ASI-741

OEM Equivalent:

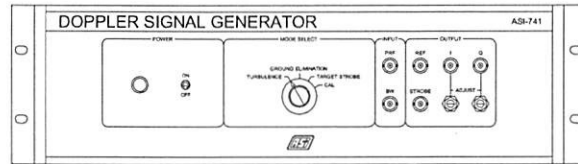
OEM: Bendix
Model Number: RMT-4A
Part Number: 8055325-0401
Manual: I.B. 1104HT / 34-41-62
Manual Figure: 1

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

Description:

The ASI-741 Doppler Signal Generator works in conjunction with the ASI-742 (RCT-4A) and an IFR RDX-3000B / RDX-7708B to test the Bendix RTA-4A Receiver-Transmitter. It provides quadrature modulation signals for turbulence detection testing.

The ASI-741 is designed as a test instrument for ARINC 708 (RTA-4A) series weather radar systems by providing a means of testing the turbulence detection capabilities of the radar transceiver. The ASI-741 works in conjunction with the ASI-742 (RCT-4A) and a radar test set (RDX-3000B or RDX-7708B) to generate simulated weather turbulence and ground returns, which enable a reading and interpretation of the resultant data on the radar test set.



Units Tested:

ARINC-708 Series Weather Radar Systems
RDR-4A Weather Radar System (RCT-4A)

Specifications:

Height: 5.25" Width: 19.00" Depth: 13.00"
Power Requirements: 115/230 VAC 47-440 Hz

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-741	8055325-0401	Doppler Signal Generator (RMT-4A)

Optional Equipment:

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

RDR-4A Radar System Test Panel

ASI-742

OEM Equivalent:

OEM: Bendix
Model Number: RCT-4A
Part Number: 2041589-0401
Manual: I.B. 1104AT / 34-41-55
Manual Figure: 1

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

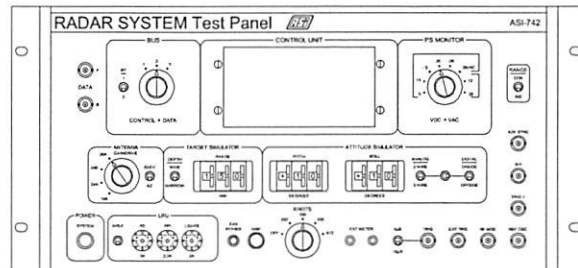
Description:

The ASI-742 Radar System Test Panel is used in conjunction with a CON-4A/4B Controller, PPI-4B Indicator, RTA-4A R/T, and DAA-4A/4B Antenna Drive Unit to test the RDR-4A Radar System.

The ASI-742 provides a central station for interconnection of the system. The Test Panel generates target range, pulse width and digital or analog attitude signals, and ground speed signals which are transmitted to the R/T. The signals generated by the ASI-742 simulate signals from the antenna and the aircraft. Provision has been made for mounting the CON-4A/4B directly in the front panel.

Testing of the DAA-4B Antenna Drive Unit requires the optional ASI-72-2K adapter cable.

The ASI-741 (RMT-4A) can be used with the ASI-742 to test the turbulence detection functions of the RTA-4A R/T. The ASI-799 (AXT-4A) can be used in conjunction with the ASI-742 to simulate the aircraft CFDS Computer and MCDU Display.



Units Tested:

RDR-4A Weather Radar System
CON-4A / CON-4B
DAA-4A / DAA-4B
PPI-4B
RTA-4A

Specifications:

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

Optional Equipment:

ASI MN	OEM PN	Description
ASI-74-2H	NPN	BNC-T 150 Ohm Load
ASI-74-2J	NPN	SMB/BNC Adapter Cable
ASI-74-2K	2040904-0501	Cable: ASI-742-W4 to DAA-4B Antenna
ASI-77-1E	649-0970-001/2	DAA-4A Dummy Antenna Weight
ASI-741	8055325-0401	Doppler Signal Generator (RMT-4A)
ASI-770	2041886-0401	Radar Antenna Simulator (AST-4A)
ASI-799	8055692-0401	Fault Data Test Unit (AXT-4A)
ASI-169-2	2041793-0401	Radar Test Set (RST-4A)
ASI-252-2	2041593-0401	Radar Control Test Panel (COT-4A)
ASI-722-2	2039960-0501	RTA-4A Test Bench Cooling Tray

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-74-2A	2039994-0501	Cable: ASI-742 to PPI-4B (W1)
ASI-74-2B	2039995-0501	Cable: ASI-742 to API (W2)
ASI-74-2C	2039996-0501	Cable: ASI-742 to CON-4A (W3)
ASI-74-2D	2039997-0501	Cable: ASI-742 to DDA-4A (W4)
ASI-74-2E	2039998-0501	Cable: ASI-742 to CON-4B (W5)
ASI-74-2F	2039999-0501	Cable: ASI-742 to ATE (W6)
ASI-74-2G	2040000-0501	Cable: ASI-742 to RTA-4A (W7)