

RTA Test Panel

ASI-CTS-841

OEM Equivalent: Collins MN: CTS-841 PN: 822-0081-001 Manual: 523-0776660 Manual Fig: 1	UUT: TWR-850 / WXR-800/-840 Radar Systems RTA-800/-842/-844/-848/-852/-852L/-854/-858 Size: H: 8.75" W: 19.00" D: 9.00" Pwr: 28 VDC / 26 VAC / 115 VAC 400 Hz
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Description:

The ASI-CTS-841 Test Panel works in conjunction with the 850W (ASI-378-9) Frequency Plan Adapter, WXI-711A Indicator, WXP-850A Radar Control, RDX-7708/-7708R Generator and other standard radar equipment to bench test the Rockwell Collins RTA-800/-84X/-85X Receiver/Transmitter/Antenna units of the TWR-850, WXR-800, and WXR-840 Weather Radar Systems.

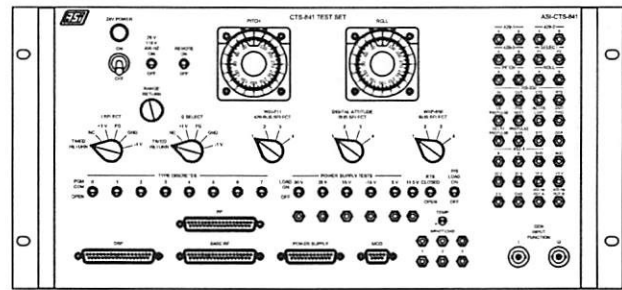
The ASI-CTS-841 provides interconnection, power, switching, loading, and the pitch-roll source. The Test Panel also includes 17 test cables and the radar RF absorption barrel required during testing of the radar system.

The included ASI-CTS-840 is a radar RF absorption barrel that is used to house the RTA-8XX during final transmitter testing.

When testing the TWR-850 (RTA-85X) the RDX-7708/-7708R must be modified to incorporate additional circuitry required to test the turbulence radar functions. The optional ASI-RDX-01 provides this same functionality without having to modify the actual RDX-7708/-7708R. The Turbulence Test Adapters (ASI-378-4/-5) are also required during TWR-850 Testing.

The Avidyne FlightMax 950 Flight Situation Display (FSD) may be substituted for the WXI-711A Indicator during testing of the RTA-8XX. The FlightMax FSD must be equipped with the J5 Radar/429 Digital Radar Interface Card (PN 800-00002-010). Use of the FlightMax FSD requires the ASI-84-1R Alternate Indicator Cable.

Additional equipment manufactured by Avionics Specialist, Inc. for testing the RTA-8XX Radar/Transmitter/Antenna units is listed in the Associated Optional Equipment section below.



Equipment Supplied:

ASI MN	OEM PN	Description
ASI-84-1A	628-8847-001	DSP Cable
ASI-84-1B	628-8847-002	Power Supply Cable
ASI-84-1C	628-8847-003	RF Base Cable
ASI-84-1D	628-8847-004	RF Cable
ASI-84-1E	628-8847-005	WXI-711A Indicator Cable
ASI-84-1F	628-8847-006	RS-232 Terminal Cable
ASI-84-1G	628-8847-007	Modulator Cable
ASI-84-1H	628-8847-008	Digital Attitude Cable
ASI-84-1J	628-8847-009	WXP-850 Cable
ASI-84-1K	628-8847-010	Impatt Cable
ASI-84-1L	628-8847-011	RF Cable
ASI-84-1M	628-8847-012	RF Base Cable
ASI-84-1N	628-8847-013	RF Cable
ASI-84-1P	628-8847-014	RF Base Cable
ASI-84-1Q	628-8847-015	Power Supply Cable
ASI-84-1R	628-8847-016	Alternate Indicator Cable (FlightMax 950 FSD)
ASI-84-1S	628-8847-017	ETC Cable
ASI-CTS-840	822-0080-001	Radar Absorption Barrel (CTS-840)

Radar RF Absorption Barrel

ASI-CTS-840

OEM Equivalent: Collins MN: CTS-840 PN: 822-0080-001 Manual: 523-0776660 Manual Fig: 1	UUT: TWR-850 / WXR-800/-840 Radar Systems RTA-800/-842/-844/-848/-852/-852L/-854/-858 Size: H: 24.00" W: 24.00" D: 36.00" Pwr: N/A
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Description:

The ASI-CTS-840 is a radar RF absorption barrel that is used to house the RTA-800, RTA-84X and RTA-85X during final transmitter testing.

Equipment Supplied:

ASI MN	OEM PN	Description
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Associated Optional Equipment:

ASI MN	OEM PN	Description
ASI-26-9J	NPN	Power Cable Extender for Receiver Assembly 653-2349-001 (12 Pin/Double Row/Pin 8 Key)
ASI-26-9J1	NPN	Power Cable Extender for Receiver Assembly 659-7802-001 (8 Pin/Double Row/Pin 7 Key)
ASI-26-9K	NPN	Extender Cable for A7P1of Interconnect Assembly 676-5300-00X, 827-3493-00X, and 628-6960-00X (28 Pin/Double Row/Pin 10 Key)
ASI-26-9K1	NPN	Extender Cable for P1 of Interconnect Assembly 628-9858-001/-002 (28 Pin/Double Row/Pin 17 Key)
ASI-26-9K2	NPN	Extender Cable for A4A5P1 of Interconnect Assembly 653-3853-001 (28 Pin/Double Row/Pin 6 Key)
ASI-26-9L	NPN	Scan to Scan Bypass Connector (16 Pin/Double Row/No Key)
ASI-26-9M	NPN	Tilt Error Adapter Cable (10 Pin/Double Row/Pin 10 Key)
ASI-26-9N	NPN	Power Cable Extender for Exciter Assembly 628-9744-002 (6 Pin/Single Row/No Key)
ASI-26-9N1	NPN	Power Cable Extender for Exciter Assembly 653-3839-001 (6 Pin/Single Row/Pin 3 Key)
ASI-269-1A	135-3603-026	Dial Indicator Mounting Post (3 Inch)
ASI-269-1B	135-3603-027	Dial Indicator Mounting Post (6 Inch)
ASI-269-2	NPN	Tilt Angle Mounting Fixture
ASI-269-3	NPN	Tilt / Scan Angle Measurement Adapter
ASI-269-4	827-2780-001	Tilt Sector Gear Pulley
ASI-269-5A	827-2781-001	Scan Sector Gear Pulley
ASI-269-5B	626-4247-001	Scan Sector Gear Pulley
ASI-269-6	NPN	Fluke 9010A Test Adapter
ASI-269-7	NPN	Tilt Torsion Spring Installation / Removal Tool (Qty 2 Required)
ASI-269-8	815-2274-001	Buffer Adapter (With 2 Cables)
ASI-269-9	NPN	RF Test Cable Set (Includes Cables A(Qty 3), B, D, E, F, G, H, J, K, L(Qty 2), M, N, P, Q, R, S)
ASI-365-1	NPN	Test Adapter for Receiver Assembly 653-2349-001
ASI-365-2	NPN	Second IF Test Set
ASI-378-1	NPN	Exciter Assembly Test Set for 628-9744-002
ASI-378-2	NPN	Exciter Assembly Test Set for 628-9744-001
ASI-378-3	NPN	Turbulence Test Adapter for DSP/CPU Card 646-7991-011 (Replaced by ASI-378-5)
ASI-378-4	NPN	Turbulence Test Adapter for DSP/CPU Card 646-7991-012
ASI-378-5	NPN	Turbulence Test Adapter for DSP/CPU Card 646-7991-003 thru -011
ASI-378-6	NPN	RTA Flight-Line Test Fixture
ASI-378-7	NPN	WXP-840/850 Flight-Line Test Fixture
ASI-378-8	685-6238-001	WXP Interface Adapter Box
ASI-378-9	850W	Frequency Plan Adapter / Frequency Converter
ASI-CTC-429	822-0854-001	ARINC CTC-429 Smart Card (Requires 831-0990-007 Software)
ASI-CTS-956	NPN	Transmitter Assembly Test Panel
ASI-CTS-957	NPN	Receiver/Exciter Assembly Test Panel
ASI-RDX-01	638-0066-001	Turbulence Mod Fixture for RDX-7708/-7708R (Required for Testing Turbulence Radars: TRW-850: RTA-852 / -852L / -854 / -858)