

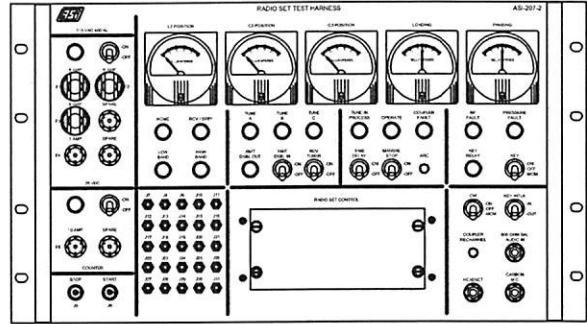
Test Bench Harness

ASI-207

OEM Equivalent: Rockwell Collins MN: 477W-7 PN: 622-0158-001 Manual: 523-0764501 Manual Figure: 1	UUT: 490S-1 Size: H: 10.50" W: 19.00" D: 10.00" Pwr: 115 VAC 400 Hz 3 Phase / 28 VDC
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Description:
The ASI-207 Test Bench Harness provides capability to test the 490S-1 Antenna Coupler at full rated power levels and permits hot mockup operation of the entire coupler system. The ASI-207 includes the ASI-207-1 Dummy Load, ASI-207-2 Test Set and associated interconnect cables.

Testing of the 490S-1 requires the use of a known good HF Control (714E-2/3/6) and HF Transceiver (618T-X or 628T-X). If the 628T-X is used then a 999W-X Adapter is required to interface it to the ASI-207-2 (W3). Use of the 628T-1/1A requires a 999W-1/1A, the 628T-2/2A requires a 999W-2/2A, and the 628T-3/3A requires a 999W-3/3A. The ASI-207 may also be used in conjunction with the ASI-700-4 to test the 490S-1. Testing with the ASI-700-4 also requires an HF Control (714E-2/3/6 / HFP-702/712) and HF Transceiver (628T-2/2A / HFS-700/900/900D). Refer to the 490S-1 manual for more detailed test set up information.



Equipment Supplied:

ASI MN	OEM PN	Description
ASI-207-1	622-0180-001	Dummy Antenna Shunt (172H-18)
ASI-207-2	622-0304-001	Radio Test Set Harness (678P-5)
ASI-20-7A	617-9756-001	Cable: ASI-207-2 to 490S-1 (W1)
ASI-20-7B	617-9758-001	Cable: ASI-207-2 to 490S-1 (W2)
ASI-20-7C	617-9755-001	Cable: ASI-207-2 to 618T-X (W3)
ASI-20-7D	618-7711-001	Cable: 618T-X to Wattmeter (W4)
ASI-20-7E	618-7712-001	Cable: 490S-1 to Wattmeter (W5)
ASI-20-7F	617-9743-001	Cable: ASI-207-2 to Dc Power Supply
ASI-20-7G	757-8979-001	Cable: ASI-207-2 to AC Power Supply

Optional Equipment:

ASI MN	OEM PN	Description
ASI-20-7H	NPN	Transmitter Gain Control
ASI-208	777-1526-001	Antenna Coupler Test Set (980H-5)
ASI-208-1	622-0226-001	Discriminator Test Panel (878L-19D)
ASI-208-3	622-0227-001	Servo-Power Supply Test Panel (878L-39)
ASI-208-4	622-0228-001	Tuner-Chassis Test Panel (878L-40)
ASI-208-5	622-0229-001	Logic Card Test Set (878L-41)
ASI-235	NPN	Special Solder Tip
ASI-700-4	NPN	HF/VHF Discrete Function Interface Unit
ASI-711	NPN	500 Ohm T-Attenuator

Dummy Antenna Shunt

ASI-207-1

OEM Equivalent: Rockwell Collins MN: 172H-18 PN: 622-0180-001 Manual: 523-0764501 Manual Figure: 1	UUT: 490S-1 / 490S-4 / CPL-920D HF-9040 / HF-9041 / HF-9042 CU-2314(V)1/-2/-3/-4 Size: H: 10.70" W: 13.70" D: 30.75" Pwr: 115 VAC 60 Hz
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Description:
The ASI-207-1 Dummy Antenna Shunt, part of the ASI-207 Test Bench Harness, simulates an aircraft shunt or notch antenna. The ASI-207-1 is required when testing various Collins HF Antenna Couplers including the 490S-1, 490S-2, CPL-920D, CU-2314(V)1/-2/-3/-4, HF-9040, HF-9041, and HF-9042. The Dummy Antenna Shunt may be used with HF radio systems operating from 2 MHz - 30 MHz with a power rating up to 400 W average and 1000 W pep.

The ASI-207-1 (172H-18) is also functionally equivalent to the Rockwell Collins 172H-18A / 622-7148-001 Dummy Antenna Shunt.

The optional ASI-207-3 is required to interface the CPL-920D with enhanced lightning protection (822-0987-004) to the ASI-207-1 (172H-18).

Equipment Supplied:

ASI MN	OEM PN	Description
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Optional Equipment:

ASI MN	OEM PN	Description
ASI-207-3	NPN	RF High Volt Fixture for CPL-920D (-004/-020)
ASI-207-13	652-2443-001	RF Test Adapter
ASI-208	777-1526-001	Antenna Coupler Test Set (980H-5)
ASI-208-1	622-0226-001	Discriminator Test Panel (878L-19D)
ASI-208-3	622-0227-001	Servo-Power Supply Test Panel (878L-39)
ASI-208-4	622-0228-001	Tuner-Chassis Test Panel (878L-40)
ASI-208-5	622-0229-001	Logic Card Test Set (878L-41)
ASI-235	NPN	Special Solder Tip
ASI-323-2	622-7574-001	Test Set for AN/ARC-190(V) System (966D-5A)
ASI-323-21	622-7574-002	Test Set for AN/ARC-190(V) System (966D-5A)
ASI-323-3	622-9034-001	Test Set for AN/ARC-190(V) System (966D-5B)
ASI-700-4	NPN	HF/VHF Discrete Function Interface Unit
ASI-70-04C	NPN	ARINC-753 HFDL Voice Interface Fixture
ASI-711	NPN	500 Ohm T-Attenuator
ASI-777	822-1429-001	Test Set for HF-9000 System (TE-9210)

Dummy Antenna Shunt

ASI-207-1-220

OEM Equivalent: Rockwell Collins MN: 172H-18 PN: 622-0180-001 Manual: 523-0764501 Manual Figure: 1	UUT: 490S-1 / 490S-4 / CPL-920D HF-9040 / HF-9041 / HF-9042 CU-2314(V)1/-2/-3/-4 Size: H: 10.70" W: 13.70" D: 30.75" Pwr: 220 VAC 50-60 Hz
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Description:
The ASI-207-1-220 is identical to the ASI-207-1 except that it operates on 220 VAC 50-60 Hz input power.

Equipment Supplied:

ASI MN	OEM PN	Description
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Optional Equipment:

ASI MN	OEM PN	Description
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Radio Set Test Harness

ASI-207-2

OEM Equivalent: Rockwell Collins MN: 678P-5 PN: 622-0304-001 Manual: 523-0764501 Manual Figure: 1	UUT: 490S-1 Size: H: 10.50" W: 19.00" D: 10.00" Pwr: 115 VAC 400 Hz 3 Phase / 28 VDC
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Description:
The ASI-207-2 is part of the ASI-207 Test Bench Harness which provides capability to test the 490S-1 Antenna Coupler at full rated power levels and permits hot mockup operation of the entire coupler system. Testing of the 490S-1 requires the use of a known good HF Control (714E-2/3/6) and HF Transceiver (618T-X or 628T-X). If the 628T-X is used then a 999W-X Adapter is required to interface it to the ASI-207-2 (W3). The ASI-207 may also be used in conjunction with the ASI-700-4 to test the 490S-1.

Refer to the 490S-1 manual for more detailed test set up information.

Equipment Supplied:

ASI MN	OEM PN	Description
ASI-20-7A	617-9756-001	Cable: ASI-207-2 to 490S-1 (W1)
ASI-20-7B	617-9758-001	Cable: ASI-207-2 to 490S-1 (W2)
ASI-20-7C	617-9755-001	Cable: ASI-207-2 to 618T-X (W3)
ASI-20-7D	618-7711-001	Cable: 618T-X to Wattmeter (W4)
ASI-20-7E	618-7712-001	Cable: 490S-1 to Wattmeter (W5)
ASI-20-7F	617-9743-001	Cable: ASI-207-2 to Dc Power Supply
ASI-20-7G	747-8979-001	Cable: ASI-207-2 to AC Power Supply

Optional Equipment:

ASI MN	OEM PN	Description
ASI-207	622-0158-001	Test Bench Harness (477W-7)

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