

Chanalyst Comparison

A Collaboration of Konrad Birkner & Mark Wm. Manis

(Dated as at: December 13, 2010)

DESCRIPTORS	MODELS for Service Instruments, Inc.			
	Model A	Model AX	Model 11	Model 11A
Manufacturer	Service Instruments, Inc.	Service Instruments, Inc.	Service Instruments, Inc.	Service Instruments, Inc.
Model Date	MISSING	MISSING	1938 (Serial N ^o ≤ 199)	1938 (Serial N ^o > 199)
Original Price	\$107,50	\$112,50	\$107,50	\$107,50
Power Requirements	117 Volts, 50-60 Hz.	105-125 Volts, 25-40 Hz.	105-125 Volts, 50-60 Hz.	
Power Consumption	MISSING		All Models 60 Watts.	
Size	14 x 9 x 9-3/4 (WHD)		16 x 9 x 10-3/4 (WHD)	
Weight	26 lbs.		28 lbs.	
Chassis Number				
Manual or Schematic Number	MISSING		Schematic 11-B-17	Schematic 11-B-17 (Annotated)
Tube Complement	12 TUBES			
	76, 6E5(4), 6H6, 6K7(4), 6Q7, 6X5.		76, 1852, 6E5(4), 6H6, 6K7(3), 6Q7, 6X5G.	
			The 6K7 in 1st RF/IF Amplifier in Models 11 & 11A was replaced with a 6SK7 in all subsequent Models.	
Probes/Cables (Supplied with Equipment)	MISSING		Four Probes and One Cable, all shielded, with floating ground terminated at chassis: (1) RF/IF with 1 pF capacitor, (2) Oscillator with 1 pF capacitor, (3) Voltmeter with 1.0 mOhm resistor, (4) AF straight pass through, and (5) Interchannel Cable.	
			Plug Colors	
			RF-IF: Black & Red	

Plug, Probe Lead & Interconnect Cable Identification Markings	MISSING	OSC: Black & Brown	Black	
		VM: Red		
		AF: Red & Green		
		Interconnect: Black		
		Probe Lead & Interconnect Cable Colors		
		Black	RF-IF: Black & Red Tracer	
	OSC: Black & Brown Tracer			
	AF: Black & Green Tracer			
	VM: Black & Blue Tracer			
	Interconnect: Black			
Accessories				

DESCRIPTORS	MODELS for RCA Manufacturing Co., Inc. & Subsidiaries				
	Model 162	Model 162A	Model 162B	Model 162C	TS-303/AG
Manufacturer	RCA Manufacturing Co., Inc.	RCA Manufacturing Co., Inc.	RCA Manufacturing Co., Inc.	RCA Manufacturing Co., Inc.	RCA Radiomarine Corporation of America
Model Date	1939	1939	1944	1945	1945
Original Price	\$107,50	\$112,50	MISSING	\$162,50	MISSING
Power Requirements	105-125 Volts, 50-60 Hz.	105-125 Volts, 50-60 Hz.	105-125 Volts, 50-60 Hz.		
Power Consumption	All Models 60 Watts.				
Size	16 x 9 x10-3/4 (WHD)				
Weight	28 lbs.				
Chassis Number	T-601790	T-601790-[X]	T-601790-[X]	T-601790-[X]	T-601790-[X]
	<i>Chassis Manufactured after the first Model 162[A] have a hyphenated Suffix Number [X].</i>				
Manual or	Manual IB-32022	Manual IB-32022-[X]	Manual IB-32022-[X]	Manual IB-32022-[X]	U.S. Army Technical Manual TM 11-2659 (1945)

Schematic Number	<i>Manuals Printed after Model 162[A] First Edition 1939 printing have a hyphenated Suffix Number [X].</i>			
Tube Complement	12 TUBES			
Probes/Cables (Supplied with Equipment)	76, 1852, 6E5(4), 6H6, 6K7(2), 6Q7, 6SK7, 6X5G.		76, 6AC7/1852, 6E5(4), 6H6, 6K7(2), 6Q7, 6SK7, 6X5GT/G.	
Plug, Probe Lead & Interconnect Cable Identification Markings	The 6K7 in 1st RF/IF Amplifier in Models 11 & 11A was replaced with a 6SK7 in all subsequent Models.			
Accessories	Four Probes and One Cable, all shielded, with floating ground terminated at chassis:			
Accessories	(1) RF/IF with 1 pF capacitor, (2) Oscillator with 1 pF capacitor, (3) Voltmeter with 1.0 mOhm resistor, (4) AF straight pass through, and (5) Interchannel Cable.			
Plug, Probe Lead & Interconnect Cable Identification Markings	Plug Colors			
Accessories	RF-IF: All Metal			
Accessories	OSC: All Metal			
Accessories	VM: Black Bakelite			
Accessories	AF: Black Bakelite			
Accessories	Interconnect: Black Bakelite			
Accessories	Probe Lead & Interconnect Cable Colors			
Accessories	RF-IF: Red			
Accessories	OSC: Brown			
Accessories	VM: Blue			
Accessories	AF: Green			
Accessories	Interconnect: Black			
Accessories	A-F Adapter (Stock N ^o 9907)			
Accessories	Flexible Connector (Stock N ^o 35710)			
Accessories	Rack Panel Mounting & Accessories (Stock N ^o 9907)			
Accessories			1.5 to 80 MHz	Chanalyst UHF Converter 1.5 to 80 MHz (Model N ^o TS-350/U)

Notable Publications:

The Essence of Engineering by Andrew Goldsteing 1997

Popular Electronics article "John Rider's Remarkable Chanalyst" by Marc Ellis July 1998 & August 1998.

Radio Craft article by John Rider, October 1938 & November 1938 (*November 1938 Issue Contains Schematic*).