



ELECTRONIC TEST EQUIPMENT NOMENCLATURE ASSIGNMENTS

NOVEMBER, 1964

The equipment listed in this addendum to the two volumes of Electronic Test Equipment Nomenclature Assignments, SETE 210/74, is intended to fill gaps in the historical record of electronic test equipment used by the armed forces. The instruments listed have nomenclatures in accordance with the Joint Army-Navy Nomenclature (JAN) System which preceded the AN system (MIL-STD-196, 196A) now in use.

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SETE 210/74
Addendum No. 1

NOMENCLATURE	ITEM NAME	TECHNICAL SPECIFICATIONS & FUNCTION	COMMERCIAL MFR & MODEL NUMBER	ORIG. AGENCY OR LAB	SPEC NUMBER	USED WITH OR PART OF
BC-1031-()	Panoramic Adapter	450 to 470kc. Used with any radio receiver in given IF range. Provides visual indication on CRO of any signals inside ± 100 kc of center frequency.	Panoramic Radio Corp SA-3-T-200	GL	71-1622	U/W BC-342-() SCR-244 SCR-277-() SCR-206 SCR-503-()
BC-1031-A	Panoramic Adapter	No information available other than as given by BC-1031-().	Panoramic Radio Corp	SCL-2984	71-1622	U/W BC-342-() SCR-244-B SCR-277-()
BC-1031-B	Panoramic Adapter	Same description as BC-1031-().	Panoramic Radio Corp SA-3-T-200		71-1622	
BC-1031-C	Panoramic Adapter	450 to 470kc. ± 100 kc max sweep width. 4kc resolution 0.25" deflection with 200 μ v signal. Calibrated scale minus to zero to plus markings with 20kc div.	New London Inst Co	SCL-10811		
BC-1287-() BC-1287-A	Oscilloscope	3kc to 1Mc. 0.25 to 100 μ sec video pulses. Input Z: 72 Ω (1.8M Ω /12 μ f with aux probe).	Western Electric Co D-151512	AAF ARL-40-R342	Sig C 371-1727	
I-45-A	Ammeter	50-0-50ma (dc) $\pm 0.75\%$ instrument. 3.5" scale. Portable. Supersedes I-45.	Westinghouse Electric PX-4			
I-48-A	Test Set	Ohmmeter; 0-1000M Ω ; 500v constant pressure type, built-in hand generator Megger insulation tester.	James Biddle Co 7679-A	SCL-7201	USA 71-3256	
I-48-B	Test Set	Ohmmeter; 0-1000M Ω ; built-in hand generator; 500v constant pressure type. To be procured in future as ZM-21()/U.	James Biddle Co 7679	SCL-7202	USA 71-3256	
I-49-() I-49	Test Set	Wheatstone bridge. 1M Ω to 50k Ω with internal 4.5vdc and 1 to 11M Ω with ext 90 to 200vdc, $\pm 0.1\%$ or $\pm 0.01\%$. Performs Murray loop test with ratio resistors $\pm 0.05\%$. Push buttons give galvanometer sensitivity (0.01, 0.1 and 1). Fault location telephone and telegraph cable.	Leeds & Northrup	CESL	Sig C 71-110	
I-49-A	Test Set	Same description as I-49.	Shallcross Mfg Co 6100	SCL-9694	71-110-E	F/O AN/GSM-1()
I-49-B	Test Set	0.1M Ω to 1.011M Ω $\pm 0.1\%$ resistance bridge. Same as I-49 and I-49-A. Future procurement as ZM-4B/U.	Winslow Elec Inc 301 SL	USA SCIM-1143	MIL-B-3067	F/O AN/GSM-1()
I-50-() I-50	Voltammeter	0 to 3/15/30a, 0 to 3/15/150vdc, $\pm 1\%$ for both. Sensitivity: 1000/v. Future procurement as ME-87()/U.	Weston Electrical 280	SCIM-1296	MIL-M-11542A	
I-51	Test Set	Fault location in short lengths of non-loaded telephone cable. Locates: grounds, shorts, crosses, split pairs and wet spots. 0.8 to 1.4kc, similar to Western Electric model 10206.	Western Electric Co	USA		
I-51-A	Test Set	Same description as I-51.	Western Electric Co 1020-C		71-295	
I-51-B	Test Set	Same description as I-51 and I-51-A.	W.N. Matthews Type L			
I-51-C	Test Set	Same description as I-51, I-51-A, I-51-B.	Shallcross Mfg Co SK-754	SCEL/SCPA		F/O IB-29
I-56-()	Test Set	Universal radio test set.			71-810B Amend #2	
I-56-C	Test Set	Same description as I-56-().	Triplett Electrical			
I-56-D	Test Set	Same description as I-56-().	Espey Mfg Co			
I-56-E	Test Set	Same description as I-56-().	Weston Electrical			
I-56-F	Test Set	Same description as I-56-().	Triplett Electrical			
I-56-G	Test Set	Same description as I-56-().	Espey Mfg Co			
I-56-H	Test Set	Same description as I-56-().	Espey Mfg Co			
I-56-J	Test Set	Same description as I-56-().	Triplett Electrical			
I-56-K	Test Set	Universal radio test c/o I-166, I-176 and I-177. I-177 is of mutual conductance type.				
I-56-L	Test Set	Output meter: 1.5/6/15/60/150vac, 4k Ω /range. Volt-ohmmeter: 3/30/300/600/1800vdc $\pm 2\%$, 1k Ω /v; 1/10/100/1000k Ω . Tube checker and multirange analyzer: major tube checks, vdc and vac, current, resistance and capacitance analyzer.	Western Electric Co			71-810
I-56-M	Test Set	Universal radio test set. c/o I-166-A, I-176-A, I-177-A.	Munston Mfg Co	SCProCA	SC 71-810	
I-61-A	Test Set	Measures losses or gains of circuit. Input: -50 to +15dbm in 0.5dbm steps, Z: 600 Ω . Output: -40/-20/Cdbm (0dbm refers to 1mw into 600 Ω), Z: 600 Ω , CW. Internal oscillator: 0.5/1/2.5kc ± 50 cps. Output attenuator: -20 or -40dbm below 1mw. ± 2.00 . Interchangeable with AN/PTM-3.	Daven Co	USA	Sig C 71-492	
I-61-B	Test Set	Same description as I-61-A except output attenuator: 1mw, -20 or -40dbm. ± 0.50 .	Daven Co	USA	Sig C 71-492	

NOMENCLATURE	ITEM NAME	TECHNICAL SPECIFICATIONS & FUNCTION	COMMERCIAL MFR & MODEL NUMBER	ORIG. AGENCY OR LAB	SPEC NUMBER	USED WITH OR PART OF
I-61-C	Test Set	Same description as I-61-B.	Daven Co	USA	Sig C 71-492	
I-63-A	Test Set	Modified I-63. Addition of switch, binding posts and resistors; allowing testing 14 and 28v dynamotors. See I-83 for subsequent procurement.				
I-67	Ohmmeter	0 to 0.2/1/10k Ω and 0 to 1/10M Ω \pm 2%. 0 to 2.5/10/100/250/500vdc \pm 2%. 0 to 1/5/25/100ma(dc) \pm 2%. Needs external 1.5vdc (BA-30). A passive multimeter.				P/O GR-3
I-71-()	Ammeter	Uses a mvdc meter measuring RF current through an antenna thermocouple of BC-338() transmitter. This is a remote indicator.	Weston Electrical 507			P/O SCR-240-()
I-72-()	Signal Generator	0.1 to 32Mc with 400cps modulation. Output: 30mv or more (attenuator at max) except region 10 to 20Mc where max may be 10mv or more. Used in alignment of BC-275-() Radio Receiver. Portable.			71-968	P/O RC-40() IE-26() IE-27()
I-72-L	Signal Generator	400cps and 0.1 to 32Mc, both \pm 0.1% of indication. Output: 10 μ v to 32mv for RF, 0 to 1.5rmsv for AF. Z: 100 Ω . Transmission: CW, AM carrier, or AF. Used to align RF and IF stages. Also rough frequency checks. Interchangeable with all previous I-72 models.	Espey Mfg Co	USA CSL		
I-76	Test Set	Used for adjustment and tuning of marker beacon receivers and transmitters. Contains: Oscillator BC-376-K (75Mc, drift less than 150cps. Output 900 μ v/meter at 100ft, 10 to 20ft range, AM carrier. Modulation: 0.4, 1.3, 3.0kc. Receives CW.), Test Indicator BE-67-C (0 to 1ma (dc) \pm 2%fs, coil has a 45 Ω dc resistance.	Loral Electronics 103919-000 109189-000	ASO		
I-77-()	Test Set	ac, dc VOM with leads			71-1107	
I-83-()	Test Set	Measures input and output characteristics of low wattage dynamotors (14 and 28v). Input: 0 to 35v, 0 to 10a. Output: 0 to 500v, 0 to 250ma. Ripple: 12 to 200v. Replaces I-63-A.		USA Sig C	Sig C 71-1113	
I-86-A	Test Unit	Output: 470Mc, AM carrier, modulated at 30kc. Input: 470 to 493.5Mc. As frequency meter \pm 5Mc. Used to check and align high frequency circuits.	GE Bridgeport BRD-65B	USAF C & N		
I-87-()	Test Meter Unit	Contains: tuning meter (0 to 10ma) and a center zero microammeter. Plug into chassis of radio set and aids in adjustment to proper operation frequency.			71-1043	U/W SCR-293
I-95	Field Strength Meter	100 to 156Mc. Determines antenna field strength, approximate transmitter frequency, presence of modulation. Has 0 to 1ma (dc) meter.	Bendix Radio	USAF WADC		P/O IE-12-A IE-19-A
I-96-A	Signal Generator	12Mc (IF), 100 to 156Mc (RF) \pm 0.002%. Output: 0 to 5mv (RF). Modulation: AM, 100cps, 30%. Battery power.	Bendix Baltimore	USAF WADC		P/O IE-12
I-97-A	Bias Meter	Covers previously procured I-97-().	Automotive Signal			
I-99	Test Unit	Special purpose voltage divider. Aids measuring the output voltage of BC-402 or SCR-270-DA. Input Z: 50k Ω series with 1k Ω /1 μ f. Output Z: 1k Ω /1 μ f. External voltmeter or oscilloscope needed for measurement.	Espey Mfg Co Western Electric Co	USAF RADC		
I-100-A	Test Set	Contains: Test Unit BC-713-A (0 to 250ac, 0 to 500ac 0 to 750ac, 0 to 500ac milliammeters, 0 to 10/50/250 vac and vdc VTVM ranges), Test Unit BC-714-A (checks calibration of radio compass units).	Airadio Corp	AAF ARL-47- R278	AAF 71-1142	U/W SCR-269-G AN/ARN-7
I-100-B	Test Set	Same description as I-100-A.	Bendix Baltimore	USAF C & N	71-1142	U/W BC-433-G R-5/ARN-7 SCR-269-G AN/ARN-7
I-104-A	Test Unit	Receiver test unit.	Colonial Radio Corp Western Electric Co			P/O SCR-274-N
I-107-()	Volt ohmmeter	0.1 to 1k/10k/0.1/1/10M Ω , 0 to 3/10/30/100/300vdc. Input Z: 1M Ω . 400 μ a meter. Meter \pm 2%.		SCL- 6986	71-1370	P/O ME-13-()
I-108	Range Calibrator	For use in testing BC-436, BC-436-A, or BC-463-B.				U/W RC-68
I-110-()	Azimuth Indicator	Consists of left-right indicating meter, and associated circuitry.			471-1096	P/O SCR-296-()
I-114	Test Set	Contains receptacle, multi-contact switch, and a 0 to 150vac voltmeter.				P/O RC-68-A
I-115	Test Set	Dummy load for output when testing Keying Unit BC-409.				P/O RC-68-A U/W BC-409
I-120	Test Set	Transmission measuring used in testing voice-frequency circuits. Contains: TS-379/U, TS-399/U and TS-402/U.	Western Electric Co ITE 4103	USA Sig C	REP-215	P/O AN/FCM-2 IE-54
I-122	Signal Generator	Covers previously procured I-122-().	Espey Mfg Co			P/O IE-20-A
I-126-()	Signal Generator	15 to 25Mc and 195 to 225Mc. Internal oscillator modulation at 0.4 or 8.2kc. Replaces Ferris Micro-volter 18-B.				P/O RC-68
I-126-B	Signal Generator	15 to 25 or 195 to 225Mc. Output: 1 μ v to 100mv, Z: 34 Ω . Modulation: AM, 0.4 or 8.2kc, 30% (or can be turned off).	Measurements Corp	MPD		P/O AN/MFM-1 IE-24
I-128	Test Set	Tone buzzer set.	Western Electric Co ITE 4002			
I-129-()	Frequency Meter Set	Absorption type. 1.5 to 3.5Mc, 3.5 to 8.0Mc, 8.0 to 18.5Mc, 18.0 to 41.0Mc \pm 3% for all (actually four meters).	James Millen Mfg Co 90600	SCL- 6979	USA 71-1388	P/O IE-9-C

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I-129-B	Frequency Meter Set	Same description as I-129-(). Receive CW or pulsed.	James Millen Mfg Co	CSL USA	USA 71-1388	
I-130-A	Signal Generator	100 to 156Mc. Output: 0 to 5mv. Modulation: CW or 1kc AM.	Freed Radio Corp Hudson American Corp Elec Corp of Amer	USAF C & N		P/O JE-19-A U/W SCR-522-A
I-134-A	Oscilloscope	3" CRO with bypass capacitor.	Radio Corp of Amer 155-B			P/O RC-68-A IE-47-A U/W SCR-268-B
I-135-() I-135	Test Unit	1kc and 3 to 4Mc oscillators. 0 to 60vac, 0 to 3/150vdc, 0 to 1.5/15/60/600ma multirange meter. Also has crystal compartment, microphone, receiver.	Galvin Mfg Corp	USA Sig C	Sig C 71-3224 71-1053	
I-137-A	Signal Generator	5 to 175Mc in 7 bands $\pm 0.6\%$. Output: 1 μ v to 0.1v $\pm 10\%$, 0.7v uncalibrated, Z:150 for all attenuator steps. Modulation: CW and AM (0.4/1kc $\pm 15\%$), also provision for external.	Ferris Instrument Co 18C	BUORD		
I-137-B	Signal Generator	Same description as I-137-A.	Washington Institute 43-41	BUORD		
I-138-()	Signal Generator	No information available.				P/O IE-47-() U/W SCR-547-()
I-139-()	Test Set	0 to 1ma (dc). Meter and external resistor: 75 Ω . Used at 5 points on BG-625-(), 1 point on BG-624-(), and 2 points on I-130-().				P/O IE-19-()
I-139-A	Test Set	0 to 1ma (dc) $\pm 3\%$. R (meter): 26 Ω . R (ext): 49 Ω . Unit similar to Weston 501 with UG-13/U jack. Also is similar to TS-60/U.	Bendix Corp AL7344-1	ARL USA CSL	MIL-M- 7911	P/O IE-19-A
I-141-B	Oscillator	20cps to 200kc in 4 bands. Cancelled 25 May 1945. Replaced by TS-382/U.		ASTC		
I-142-() I-142	Test Set	Used in measuring electrical characteristics of field telephones, hand, head, and chest sets, magnetic and carbon microphones, receivers, generators, ringers, condensers, and station dials.	Western Electric Co D-173123	SCTC		
I-142-B	Test Set	Sound output: 0.5 to 2.5kc, 10dynes/sq cm. Measuring circuit: 0.2mv to 3.8v, input Z: 10k Ω . Capacitor test: 0.05 to 4 μ f. Ringer test: 3.5/6/8.5ma, 16.67cps. Insulation test: 1M Ω or less. Dial test: indicates pps and % of make-break. Continuity: buzzer and lamp. Also generator test and 4 circuits for testing the efficiency of telephone instruments with simulated line conditions. Future procurement as AN/PTM-6().	Western Electric Co D173419 Shallcross Mfg Co I-142-()	USA SCIM- 6717	MIL-T- 1103 MBG 4116164	U/W TS-550()/G
I-148-A	Test Set	100 to 120Mc. 0 to 250ma $\pm 10\%$. Used to measure SWR of RF voltage along non-resonant transmission line, check the balance to ground of parallel, two-wire, open, non-resonant transmission line. Meter gives calibrated sq law voltages. Contains probe.	Espey Mfg Co	USA ESL		P/O RC-70-A U/W SCR-270 SCR-271
I-149	Test Set	100 to 112Mc. 0 to 200/600 μ a (dc). Relative field intensity range. The microammeter indicates value of half wave rectified pulse voltage. Indication is proportional to electric field strength.	Espey Mfg Co Viewtone Co	USAF ROME		
I-151-() I-151	Oscillator	20cps to 20kc in three bands $\pm 2\%$. Output: 130v at 5k Ω , output Z: 0.01/0.25/0.5/5k Ω balanced, 0.05/0.25/2.5k Ω unbalanced, 100mw power. A secondary frequency standard.	Hickok Electrical Inst 198 Western Electric Co Espey Mfg Co	USA Sig C	Sig C 71-3292	P/O RC-70-A
I-154-() I-154-A	Indicator	1:1 gear ratio or 6400mils/rev. Has 115 to 6v step down transformer for range "on target switch" and dial light, two II Ordnance Repeaters. Azimuth data.	Western Electric Co	SCRL- 43		P/O SCR-545-A U/W M-4, 7, and 9 T-20
I-155-A	Test Unit	No information available.	Western Electric Co Colonial Radio Corp			P/O RC-55-A IE-35-A
I-157-() I-157	Test Set	Multirange meter: 0 to 3kv (ac/dc), 0.5 to 10M Ω , 0 to 12a (dc), -12 to +16db. Output: 0 to 3kvac. Mutual conductance tube tester with "BAD, WEAK, GOOD" meter.	Precision Apparatus 920			P/O IE-47-() U/W SCR-547-()
I-157-A	Test Set	Multirange meter: 0 to 3kv (ac/dc), 0 to 10M Ω , 0 to 12a (dc), -10 to +64db. Output: 0 to 3kvac. Mutual conductance tube tester.	Precision Apparatus	USA		P/O IE-47-A
I-166-() I-166	Voltohmeter	0 to 5kvac, 0 to 5/15/50/150/500/1500vdc. 1k Ω /vdc, 2.67k Ω /vac sensitivity. 0 to 1/10/100/1000k Ω . AF output voltage: 0 to 5/15/30v (Z:400 Ω), 0 to 1.5/5/15/50/150v (Z:4k Ω). Meter $\pm 2\%$.	Triplet Electrical	SCL- 7012	USA 71-1766	P/O I-56-()
I-167-() I-167	Analyzer	0 to 2.5/10/50/250/1000v (ac/dc), 0 to 1ma (dc), 0 to 3M Ω .	Weston Electrical 772	CESL		P/O RC-68 IE-47-()
I-173-A	Test Set	Spark gap oscillator. Random frequency range. Output: RF (on calibrated). Modulation: AM (90 or 150cps). Replaced by SG-13/U.	P R Mallory	USAF C & N	USAF 271-1713	
I-176-()	Test Unit	0 to 1000v (ac/dc) 5 steps; ac, 0 to 10a; dc, 0 to 500ma. Multirange meter.		SIGGG-C	USA 71-1767	P/O I-56-()
I-176-B	Test Unit	Multirange meter: 0 to 5/25/100/250/1000vac, 0 to 5/25/100/250/1000vdc (1k Ω /vdc), 0 to 5/25/100/250/1000/5000vdc (2k Ω /vdc), 0 to 0.5/1/5/10a(ac), 0 to 50 μ a (dc), 0 to 1/10/100/500ma (dc), 0 to 1/5a (dc), 0 to 1/100/10,000k Ω . 50 μ sec sensitivity. Meter $\pm 2\%$.	Supreme Inc	SCL- 7664	USA 71-1767	P/O I-56-K
I-177-() I-177	Tube Tester	Mutual conductance type. 1.1 to 117vac filament voltage. Has tube data charts, will accept acorn tubes and will check miniature pilot lights.		SCPA	Sig C 71-1757	P/O I-56-K
I-177-A	Tube Tester	Same description as I-177.	Munston Mfg Co	SCPA	Sig C 71-1757	

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I-177-B	Tube Tester	Same description as I-177. Replaced by TV-7()/U except where high precision TV-2()/U is required.	Daven Co	SCL-7661	Sig C 71-1757	P/O I-56-K
I-178	Range Calibrator	Used to test Range Units BC-436, BC-436A and BC-436B. Interchangeable with I-108.			471-1519	P/O RC-68 U/W SCR-268 SCR-268-A & B
I-179	Test Set	Multitester. 0 to 6kv (ac/dc). 1 μ a to 12a (ac/dc), 0.25 Ω to 30M Ω .		SCRL		P/O RC-68, A & B U/W SCR-268, A & B
I-181-() I-181	Test Set	Relay test equipment to check current flow, to an external circuit.	Western Electric Co D-162269	SCPA	USA 71-3318	P/O WRS-1
I-181-A	Test Set	Relay test equipment to check current flow, to an external circuit.	Western Electric Co D-162269	SCPA	USA 71-3318	
I-181-B	Test Set	Relay test equipment to check current flow, to an external circuit.	Munston Mfg Co I-181	SCL-7668	USA 71-3318	P/O TE-123
I-183-A	Frequency Meter	Covers previously procured I-183-(). No other information available.	Western Electric Co			P/O RC-125-A U/W SCR-545-A
I-185-A	Oscillator	Covers previously procured I-185-(). No other information available.	Western Electric Co			P/O RC-125-A U/W SCR-545-A
I-187-A	Synchronizing Unit	Covers previously procured I-187-(). No other information available.	Western Electric Co			P/O RC-125-A U/W SCR-545-A
I-189-()	Calibrator	No information available.				P/O RC-125-() U/W SCR-545-()
I-193-()	Test Set	For testing and adjusting polar relays. Provides suitable 10 or 20cps signals for lining up telegraph circuits.	Western Electric Co X61864A	QCD		
I-193-A	Test Set	For testing and adjusting polar relays; produces 10 or 20cps dots for testing telegraph equipment.	Western Electric Co X61864A	SGSNA		
I-193-B	Test Set	Same description as I-193-A.		SCEL, SCPA		
I-193-C	Test Set	Same description as I-193-A.	Utility Elec Corp I-193-()	SCL-7634	USA 71-3348	P/O AN/FCM-6()
I-196-A	Signal Generator	Covers previously procured I-196-(). No information available.	Philco Corp			P/O IE-46-A
I-196-B	Signal Generator	150 to 235Mc. RF output is pulse modulated 0.2 to 1.5kc prf. Battery operated and portable.	Philco Corp	USAF C & N	711789	
I-199	Test Set	Dynamotor and hand generator testing. Input; 0 to 30/120vac, 0 to 30/60vdc, 0 to 3/12/30/60a (dc). Output; 0 to 3/12/130vac, 0 to 0.3/1.2kvdcc, 0 to 120/600ma (dc).		USA Sig C	MIL-T-12236	
I-201	Test Unit	Covers previously procured I-201-(). No other information available.	Doolittle Radio			U/W BC-914
I-201-A	Test Unit	Meters: 0 to 200 μ a (dc) limiter discriminator, 0 to 20vac audio voltage, 0 to 150ma (dc) plate current, 0 to 1/5ma (dc) grid current. This unit is I-201 with shock mountings and resesigning. U/W various target control transmitting and receiving equipment.		AAF ARL-47-36		P/O IE-72-()
I-201-B	Test Unit	Same meter ranges as I-201-A. Accuracy of 3% on grid current, plate current, and limiter discriminator meters. Accuracy of AF voltage meter is \pm 5% up to 10kc. Sensitivity 1000 Ω /v.	Albert Mfg Copr		MIL-T-4626	P/O IE-72-()
I-203-A	Power Meter	2.7 to 3.4Mc. Input: 0.5 to 12.6mw (-3 to +11dbm), Z: 72 Ω , received CW or pulsed signals. Readings \pm 0.25db. Used to calibrate output power of a signal generator used in radar testing.	Western Electric Co	USAF		
I-204-()	Signal Generator	Generates RF carrier modulated by signals from Indicator BG-1184-().				P/O RC-252-()
I-206-A	Test Set	A portable milliammeter which measures plate and grid currents in AN/AXT-2 ONLY. Ranges: 0 to 15/150ma (dc) \pm 3%. R (meter): 990 and 900 similar to Navy CRV-60058.	Radio Corp of Amer P-712946	USAF ARL	76-1768	
I-206-B	Test Set	Milliammeter 0 to 15/150ma (dc).	Drake Co	ARL	USA 71-1768	P/O AN/ARM-1()
I-206-C	Test Set	Milliammeter 0 to 15/150ma (dc).		USA AEL-54-93		U/W AN/AXT-2B 2C & 3
I-208-() I-208	Signal Generator	1.9 to 4.5Mc \pm 5kc, 19 to 45Mc \pm 50kc. Output: 0.1v across 30 Ω , 0.84v across high output, 0.333mw at 30 Ω line, 7.030mw at high output. Modulation: FM (0.15/0.4/1/2.5/5kc). Aids in calibration, alignment and determination of sensitivity of FM radio receivers.	Detrola Corp 513		71-1616	P/O IE-9-C U/W SCR-508-() SCR-608-() SCR-708-() SCR-808-() SCR-293-() SCR-294-()
I-208-C	Signal Generator	1.9 to 4.5 and 19 to 45Mc \pm 0.03%. Output: 0.1 μ v to 0.1v variable, 0.6v fixed \pm 30%, Z: 15 Ω . Modulation: FM (0.15/0.4/1/2.5/5kc \pm 7%) internal and external.	New London Inst Co I-208	SCL-10826	USA 71-1616A	P/O IE-9-C U/W SCR-508-() SCR-608-()
I-209-()	Test Set	Used to measure voltage and frequency at power outlets of the Cord Assembly RC-243 and RC-244. Has frequency meter (58 to 62cps) and voltmeter (0 to 150vac).		FMSL	71-1661	P/O TC-8, 9
I-209-B	Test Set	Same description as I-209-() but add \pm 0.3% for frequency and \pm 2% for voltage. Replaced by TS-914()/U.	Bird Engineering Co Columbus Electronics	USA SCLM-6730	71-1661	P/O TC-8, 9

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I-210	Alignment Indicator	0 to 4.5/6/30v. VTVM. Input Z: 6M. Measures voltage, resistance and continuity.	Espey Mfg Co	SRL	71-1659	P/O ME-40-() U/W SCR-300-()
I-214-() I-214-A	Elevation Indicator	Consists of 2 type II Ordinance Repeaters. Has 115:6v transformers for dial illumination. Gear 9:32 (speed 1800 mils per revolution).	Western Electric Co	CESL-717,718		P/O SCR-545-() U/W M-4,7,9 T-20
I-222-()	Signal Generator	A combination signal generator and heterodyne type wavemeter. Has a 5Mc crystal oscillator as calibrator and a rough attenuator.		CESL-1033		P/O RC-145-A RC-184 U/W SCR-545-A SCR-584-A SCR-584-B
I-222-B	Signal Generator	8 to 15, 45 to 76 and 135 to 230Mc. Output: 0 to 0.1v, Z: 5/50/100Ω. Modulation: CW. Receives and transmits CW.	Espey Mfg Co	USA Sig C		
I-223-() I-223	Range Calibrator	Output: 163.94kc sine wave, 24Opps sync, 163,94Opps positive pulse 1μsec wide.		CESL-1043		P/O RC-184 U/W SCR-584-A, B
I-224-()	Standing Wave Indicator	Measures standing waves in output of transmitter during installation and tuning.	Western Electric Co D-151613	CESL		U/W SCR-545-A
I-225	Test Oscillator	135 to 233Mc. Output: less than 1w. Modulation: at supply line.	Philco Corp			U/W RC-192-a
I-227-()	Remote Indicator	Contains of tuning eye tube and indicator dial so that operation of antenna may be controlled from a distance.		CESL-1213		P/O RC-145-A U/W I-220-()
I-227-A	Remote Indicator	Same description as I-227-().	Belmont Radio Corp	CESL-1214		P/O RC-145-A U/W I-220-A
I-228-()	Signal Generator	Supplies simulated IFF Mark III signals on Oscilloscope BC-403-() when used with Trainer BC-1070-().		CESL		U/W BC-1070-()
I-229-() I-229	Test Set	Standing wave indicator: 0 to 20ma, 40 to 50Mc tunable range.	Espey Mfg Co			
I-230-()	Test Set	80 to 88Mc in 2Mc steps. Output: AM (300/475/755/1195/1900/3000cps) 85 and 100%.	Jackson X103A	ARL		U/W RC-185-()
I-231-() I-231	Alignment Test Set	RF load assembly. Has source (60cps 0 to 3/30 p-pv) and outputs for ext meter. Rheostat and voltmeter indication of 32vdc supply. 250 to 380Mc. Z: 50Ω. 25w avg power. SWR 75% min.	RCA Camden	ARL	71-5031	P/O IE-49-() U/W SCR-549-A
I-232	Flourescent Projector	Cover has alignment pins assuring fixed focus of auxiliary lens and infinity focusing of lens in camera under test. Iris diaphragm gives 1 to 20ft candles (calibrated) at mosaic. Slides give 2, 4 and 8 to 1 contrast ratio.	RCA Camden			
I-233-() I-233	Range Calibrator	Output: 186.30kc sine wave, 24Opps sync pulse and 186300Opps pulses with 0.25μsec rise time corresponds to range separation of 0.5 mile between pulses.	Belmont Radio Corp	CESL		P/O RC-127-A U/W SCR-527-A
I-233-A	Range Calibrator	Same description as I-233 but marker pips are 163,940 pps and correspond to separation of 1000 yards. Used with IFF equipment.				
I-234-() I-234	Tuning Indicator	20 to 40Mc one tube receiver. 0 to 100ma ammeter used as output meter. Has telescoping rod antenna.	North Amer Philips		371-3041	P/O RC-163-()
I-235	Test Unit	Remote tuning control so that operator of Oscilloscope BC-412-A can adjust BC-406 receiver.	Western Electric Co	CESL		P/O RC-68 U/W SCR-268-C
I-236-() I-236	Test Unit	Continuity checker; tests resistance; differentiates between ac and dc; and tests capacitors.		SIGGG-C		P/O TE-50-A
I-236-A	Test Unit	Same description as I-236.	Molded Insulation	SCPA		P/O TE-50-A
I-237-()	Field Strength Indicator	240 to 390Mc. Checks relative field strength and frequency channel radiated by Radio Set SCR-549-(). Used with oscilloscope to observe modulation.	Radio Corp of Amer	ARL-2807		U/W SCR-549-()
I-238-()	Test Unit	6 pilot lights to test relay operation thereby the overall performance of Receiver RC-185-().				P/O RC-185
I-239	Multimeter	Pocket VOM. 0 to 10/50/250/500/1000v (ac/dc) 1kΩ/v, 0 to 1/10/50/250ma (dc), 0.5 to 300Ω, up to 250kΩ. Preferred item: see TS-297/U.	Triplet Electrical 666			
I-239-A	Multimeter	Pocket VOM. 0 to 600vdc 4 steps, 0 to 1MΩ 4 steps, 1kΩ/v and ±2% meter. Formerly TS-444/U.	Weston Electrical 564-3C	SPSMB		P/O MK-3/FMQ-1
I-239-B	Multimeter	Pocket VOM. 0 to 1.5kvdc 5 steps, 0 to 1MΩ 4 steps, 1000Ω/v, 2% meter. Formerly TS-394/U.	Triplet Electrical 666SC	SPSMB		P/O I-56-C TE-43
I-239-C	Multimeter	Pocket VOM. 0 to 1.8kvdc 5 steps, 0 to 1MΩ 4 steps, 1kΩ/v sensitivity. Formerly TS-395/V.	Espey Mfg Co 102	SPSMB		I-56-D,H
I-240-() I-240	Calibrator	18.624kc fixed internal sine wave oscillation fed to horizontal plates of 1 inch CRT. External square wave from calibration output of unit under test filtered to sine wave and fed to vertical plates. Display then give frequency and phase relationship of signals. Internal sine wave 15cps at 68°F. Standard for the calibration of BC-988-() range calibrator when used with BC-1239-() Receiver Indicator or the radio sets.	Whiting & Davis Co	SCL-10798	MIL-C-11170	P/O AN/MFM-15 RC-271-() U/W SCR-527-() SCR-627-() SCR-271-()
I-241	Tuning Meter Assembly	Contains: IS-139 Ammeter mounted with meter fuse, choke coil and connectors for attaching to equipment.	Fed Tele & Radio Corp F-35730-2F	ARL		P/O SCR-277-C U/W BC-468-() BC-469-()
I-242-() I-242	Test Set	Furnishes comparative indication of transmitter power output and measures pulse recurrence rate. 50ma indicating meter for tests and dummy load for power output test.	Research Enterprises 4907	CESL		U/W SCR-602-A

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I-243-() I-243	Standing Wave Indicator	Two channel amplifier with fused RF input circuits has two meter outputs for indication of the power output and the degree of mismatch in a waveguide.	Westinghouse Electric 7713292	CESL-1866		P/O BC-1347-()
I-243-A	Standing Wave Indicator	Same description as I-243 with addition of gain controls on front panel. Note: all I-243 units in field will be modified by kit to equal I-243-A.	Westinghouse Electric R-1555	CESL-2735		P/O BC-1347-()
I-244-()	Test Unit	Used as high capacity battery supply for Radio Set SCR-536-() alignment and as alignment control panel.		SCL		P/O IE-75-()
I-245-() I-245	Oscilloscope	Y axis: 2cps to 100kc $\pm 10\%$, with 50% response at 325kc, 0.01rmsv/inch. X axis: 2cps to 100kc $\pm 10\%$ with 50% response at 250kc, 0.5rmsv/inch. Sweep: 2cps to 50kc recurrent. 5" screen.	Westinghouse Electric Dumont Labs 208	CESL		P/O RC-234 U/W SCR-584-()
I-245-A	Oscilloscope	Same description as I-245.	General Electric CRO-55	CESL		
I-245-B	Oscilloscope	Same description as I-245 but uses 6SN7 tube instead of 6F8G, with appropriate wiring adjustments.	Reiner Elec Co 508 Dumont Labs 208-B	SCL-7628		P/O RC-234 U/W SCR-784-()
I-246-() I-246	Range Indicator	Gear train and control potentiometer drive Veeder type counter for direct range readings.	Dumont Labs 426		471-2323 Sig C	P/O BC-1365-() MC-593 MC-609 U/W SCR-582-() SCR-682-()
I-247-() I-247	Azimuth Indicator	Gear train and control synchro transformer drive calibrated dial for direct azimuth readings.	Dumont Labs		Sig C 471-2323	P/O BC-1365-() MC-593 & 609 U/W SCR-582-() SCR-682-()
IE-6-()	Tuning Equipment	Includes a metal box with removable hinged cover housing several instruments used for tuning Radio Transmitter BC-338-() and for checking its operation.			71-864	P/O RC-40-()
IE-7-()	Tuning Equipment	Similar to IE-6-() except for 24 volts.	Westinghouse Electric			P/O RC-42-() U/W SCR-261-()
IE-9	Radio Test Equipment	Assigned December 31, 1940.				
IE-9-A	Radio Test Equipment	Includes additional equipment to increase the range and utility of the IE-9. Assigned March 7, 1942.				
IE-9-B	Radio Test Equipment	An improved IE-9-A. Assigned August 27, 1942.				
IE-9-C	Radio Test Equipment	Similar to IE-9-B but more suitable for field use. Assigned November 18, 1943.				
IE-10	Radio Test Equipment	Assigned December 31, 1940. Contains various test sets.				
IE-12-()	Radio Test Set	Articles for testing and servicing SCR-522-() and SCR-542-(). For repair shop use. Assigned June 10, 1941.				U/W SCR-522-() SCR-542-()
IE-12-A	Radio Test Equipment	Assigned July 30, 1943.				
IE-16-()	Test Equipment	Includes Signal Generator I-98-() and Radio Receiver BC-650-().				
IE-17-() IE-17	Test Equipment	Used for testing and alignment of Radio Set SCR-536-() including receiver and transmitter unit, crystals, and batteries.				U/W SCR-536-()
IE-17-A	Test Equipment	Substitutes for IE-17-(). Assigned February 28, 1942.	Galvin Mfg Co			U/W SCR-536-B
IE-17-D	Test Equipment	Substitutes for IE-17-().	Galvin Mfg Co			U/W SCR-536-C & D
IE-17-E	Test Equipment	Substitutes for IE-17-().	Triumph Mfg Co			U/W SCR-585-()
IE-19-A	Test Equipment	Substitutes for IE-19-().	Bendix Corp Colonial Radio Corp Rauland Corp			
IE-19-C	Test Equipment	For checking any VHF radio set. Includes Signal Generator I-130-A, Test Set I-139-A, Field-Strength Meter I-95-(), cord and chest. Differs from IE-19-C in that Battery Box BX-33-A is replaced by UC-616 which includes IM-32-A.				
IE-28-()	Test Equipment	Field test equipment for Fuse MC-380 and Fuse MC-382-().				
IE-29	Test Equipment	Replaces IE-10. Includes Converter M-222, Test Sets I-51 and I-61-B, Voltammeter I-50, Volt ohmmeter (Weston 564) and Precision #910 Tube Tester. For use on repair trucks.				
IE-35-A	Test Equipment	Substitutes for IE-35-().	Western Electric Co			U/W SCR-274-N
IE-36-() IE-36	Test Equipment	Includes Control Unit BC-1303, Spanner Wrench, Lamp Extractor, cords and Phantom Antenna A-29 all in Chest CH-234. Space is provided for Test Set I-139-A.		ARL-87-1		U/W SCR-522-A

NOMENCLATURE	ITEM NAME	TECHNICAL SPECIFICATIONS & FUNCTION	COMMERCIAL MFR & MODEL NUMBER	ORIG. AGENCY OR LAB	SPEC NUMBER	USED WITH OR PART OF
IE-37-()	Tuning Equipment	Portable mechanical tuning equipment for changing operating in Radio Set SCR-536-(). Includes housing, screwdriver, jack, short leads, and headset.				U/W SCR-536-()
IE-45-()	Test Equipment	For depot use. Includes Modulator Unit BC-1203-(), diode, Coupling Head BC-1201-() and BC-1202-(), and associated cords.		ARL		U/W SCR-695-() SCR-595-() SCR-535-()
IE-46-A	Test Equipment	Substitutes for IE-46-().	Philco Corp			U/W SCR-695-A
IE-46-B	Test Equipment	Similar to Test Equipment IE-46-A but covers a wider frequency range. Includes Radio Receiver RC-1066-B, Signal Generator I-196-B and Frequency Meter BC-906-D.	Philco Corp			U/W SCR-695-A
IE-47-()	Test Equipment	Includes Multiplier RS-281-(), Analyzer I-167-(), Test Set I-157-(), Oscillator I-141-(), Oscilloscope I-134-(), Signal Generators I-137-(), and I-138-(), Frequency Meter I-140-(), Lamp TL-197-(), and 12 test cords.				P/O SCR-547-()
IE-53-()	Test Equipment	Includes Voltmeter I-66 with Battery BA-31 and Test Set TS-190/U.				P/O TC-21-() TC-23-()
IE-56-A	Test Equipment	Field use. Includes 150-235Mc equipment: range calibrator, indicator, signal generator, frequency meter and radio receiver. Includes components of IE-56-B and IE-46-A.	Philco Corp	ARL-45-R60		U/W SCR-729-() AN/APN-2()
IE-56-B	Test Equipment	Same as IE-56-A but Frequency Meter BC-906-(), Radio Receiver BC-1066-() and Signal Generator I-196-() have been deleted from the list of components. Consists of range calibrator, and indicator, and cords.	Philco Corp	ARL-45-59		U/W SCR-729-() AN/APN-2()
IE-57-A	Test Equipment	Substitutes for IE-57-().	Western Electric Co			U/W SCR-517-B
IE-57-B	Test Equipment	Differs from IE-57-A in that it substitutes Oscilloscope BC-1287-A for BC-1087-A and Signal Generator BC-1277-A for BC-1077-A and adds Power Meter I-203-A. Used with various "S" band radar equipment.	Western Electric Co			P/O AN/APM-37
IE-75-()	Test Equipment	Consists of two each of Test Case CS-136-(), Battery Case CS-141, Headset HS-30-(), Cord CD-874. Used in alignment of radio receiver and transmitter.				U/W BC-611-()
IE-79-()	Selsyn Test Set	Uses comparison methods for testing accuracy of selsyns in Plotting Equipment RC-310-(). Includes a transmitter selsyn.				U/W RC-310-()
IS-139	Ammeter	RF; range: 0-115ma. Same as IS-69 but scale in ma.				P/O BC-325-A
IS-184	Ammeter	RF; range: 0-120ma	Weston Electrical 507			P/O RC-70-A U/W M-322
IS-185	Voltmeter	Range: 0-150vac; frequency resp. 60-2400cps accuracy: 1.25%.	Weston Electrical 433			P/O IE-13-A
IS-189	Voltmeter	0 to 5000vac and vdc in 6 ranges; 0 to 500madc in 4 ranges; 0 to 10M Ω in 3 ranges; -10 to +55db; 20k Ω /vdc; 1k Ω /vac. Replaced by AN/PSM-6.	Simpson Electric 260			P/O IE-13-A IE-13
LAD	UHF Signal Generator	207 to 209kMc. Output: 1mw (max), 1 to 2.8 μ sec width, phasing 10 to 200 μ sec after trigger, 0.3 to 2.5kc prf (this is a pulse modulated generator). Similar to TS-14/AP except for frequency range.	Boonton Radio	USN		
LAE LAE -1 to 4	RF Signal Generator	Superseded by TS-418/U and TS-419/U.	Airadio Inc	USN		
LAF LAF -1 to 3	RF Signal Generator	Superseded by AN/URM-26 and TS-418/U.	Airadio Inc Frank Reiber Inc	BuShips	BuShips RE-9187	
LAG LAG -1	RF Signal Generator	Superseded by AN/URM-61 and AN/URM-64, also TS-403/U and TS-419/U.	Gen Communications	USN	BuShips R-16-G-2(RE)	
LAJ LAJ -1	Audio Oscillator	Superseded by TS-382A/U.	Triumph Mfg Co Hewlett-Packard	USN BuShips	USN RF-3373-B	
LAK	RF Signal Generator	Superseded by AN/URM-25 and AN/URM-26.	Hickock Electrical Inst	USN		

NOMENCLATURE	ITEM NAME	TECHNICAL SPECIFICATIONS & FUNCTION	COMMERCIAL MFR & MODEL NUMBER	ORIG. AGENCY OR LAB	SPEC NUMBER	USED WITH OR PART OF
LM LM -1 to 20	Crystal Calibrated Frequency Indicating Equipment	Provides simple accurate and reliable frequency indication. Adaptable for adjusting adjacent radio transmitters and receivers to any desired frequency in given ranges (LM to LM-9, 190 to 400kc and 2 to 4Mc; LM-10 to LM-20, 125 to 400kc and 2 to 4Mc.) Accuracies are: $\pm 0.02\%$ in low range and $\pm 0.01\%$ high for an ambient temperature range of -32 to $+65^{\circ}\text{C}$. Units vary in regards to power supply, case, etc.	Hoffman Radio Corp Bendix - Towson Loral Electronics	USN (Buair)		
LM-22	Frequency Meter	125kc to 20Mc $\pm 0.01\text{kc}$ div. Internal battery supply.	Hoffman Radio Corp	USN (Buair)		
LO LO -1 to 3	Beat Frequency Oscillator	25cps to 15kc $\pm 2\%$ (above 1kc and smallest dial division below 1kc. Output: +100mv into 600 Ω , +7.74v across 600 Ω . All models are identical except for circuit improvements.	Clough-Brengle Co	BuShips	RE 13A816	
LP LP -1 to 5	RF Signal Generator	9.5kc to 30Mc $\pm 1\%$ in 7 bands, 30 to 50Mc $\pm 3\%$. Output: 1v fixed, 0.5 μv to 0.1v. Output Z: 10 Ω (below 0.1v), 50 Ω (above 0.1v) generator, 90 Ω coaxial cable. Input Z: 400 Ω . Modulation: 1kc (0 to 50%) internal, 0 to 1kc (4v for 30%) external. All model identical with exception of minor improvements on LP-5.	Fed Mfg & Engr Co	USN		
LR LR -1 to 3	Frequency Meter And Crystal Calibrator	160kc to 15Mc $\pm 0.003\%$ (usable to 60Mc). Crystal: 1kc \pm leps. Multivibrator fundamentals: 10/20/100kc. Has 0 to 5.5kc interpolation meter. Has RF output. Superseded by AN/USM-29.	General Radio Co	BuShips	RE-13401 16F	
LX LX -1 to 2	UHF Signal Generator	7.5 to 330Mc in 5 bands. Output: 1 μv to 20mv below 100Mc, 1 μv to 10mv above 100Mc. Modulation: 0.2 to 10kc \pm ldb, 0.1 to 20kc $\pm 3\text{db}$ external (0 to 75%); 1kc internal (0 to 60%). Video pulse generator needed.	General Radio Co Fed Mfg & Engr Co Washington Institute	BuShips		
M-166-()	Oscillograph Unit	No information available except that this is a moving coil type.				P/O GR-3-C U/W IE-4 IE-14
OAA	Frequency Meter	150 to 240Mc $\pm 0.5\text{Mc}$ with 50 μsec (approx 5000 yards) ringing time. Used with Navy models SA, SC, SK and similar radars in this range. Can be used as an echo box, relative power indicator (for certain transmitters), and with CRO to detect received pulses for video display.	RCA Camden	USN		
OAA-2	Radar Test Equipment	150 to 240Mc $\pm 0.5\text{Mc}$ with about 50 μsec ringing time.	Gilfillan Bros	USN BuShips		
OAK	Standing Wave Measuring Equipment	3.3Mc, 60cps rate, 1 μsec width. Aids adjustment of SWR of RF transmission lines and antennas of aircraft radar equipment. Needs impedance matches.	Philco Corp	USN BuShips		
OAO OAO-1	Radar Test Equipment	105 to 125Mc $\pm 0.25\text{Mc}$ with 50 μsec ringing time or an apparent range of 8000 yds or more. 0 to 200 μa meter. A tunable quarter-wave resonant cavity, high Q, with detector and VTVM. Can indicate relative power output or with CRO as detector for video display of input. Similar to OAA and OAF except in range. Used with 60cps repetition rate equipment with 0.05% duty cycle.	RCA Camden	BuShips		
OAO-2	Radar Test Equipment	Same description as OAO and OAO-1.	Liebel-Florsheim Co	BuShips		

NOMENCLATURE	ITEM NAME	TECHNICAL SPECIFICATIONS & FUNCTION	COMMERCIAL MFR & MODEL NUMBER	ORIG. AGENCY OR LAB	SPEC NUMBER	USED WITH OR PART OF
OAP OAP-1	Wavemeter-Oscillator	150 to 230Mc $\pm 0.25\%$ (oscillator and wavemeter). Wavemeter: input Z: 50 Ω , 0.5w avg to meter, 8w avg to dummy load. Oscillator: 10mv, output Z: 50 Ω , line frequency modulation. Power meter: VTVM, 50 Ω , 0.5w max input, 18p-pv calibration. OAP-1 slightly more sensitive than OAP.	Hazeltine Electronics	BuShips		
OAP-1A	Wavemeter-Oscillator	150 to 275Mc otherwise same description as OAP-1.	Hazeltine Electronics			
OAW OAW-1	Transmitting Tube Tester	Rapid determination of peak emission and cutoff points of various tubes. Plate voltage: 250 to 1000v. Bias voltage: 0 to -150v. Filament voltage: 0 to 10vac (0 to 3/12vac meter). Used with radars such as Navy model SA and SC series, tubes similar to 15E, 227, 327 and VT90 (8011).	Gen Communications			
OAX OAX-1	Underwater Sound Testing Equipment	Superseded by OCP series sonar portable testing equipments.	Harvey Radio Labs Presto Recording	BuShips		
OBL OBL- 1 to 3	Cathode Ray Oscilloscope	Superseded by OS-8/U.	Dumont Labs 245 Reiner Electronics Triumph Mfg Co 841	BuORD		
OBQ OBQ- 1 to 3	Vacuum Tube Volt-Ohm-Milliammeter	Superseded by ME-25/U.	Reiner Electronics Hickok Electrical Inst Telequip Radio	USN		
OBT OBT-1	Cathode Ray Oscillograph Equipment	Superseded by OS-8/U which is smaller and designed to meet military specifications.	Dumont Labs Reiner Electronics	BuORD		
OBV	Radar Test Equipment	2.9 to 3.1kMc. 80 yards/db. Loaded Q: 4.7k. Receives pulse signals. Attenuation: 20db (model 1), 27db (models 2 and 3), 18db (model 4). Power measurements possible using microammeter provided.	Maguire Industries Model 1 Johnson Service Co Models 2,3, and 4	BuShips		
OBU- 1 to 4	Echo Box Radar Test Equipment	2.9 to 3.1kMc. 65 yards/db. Loaded Q: 30k. Different waveguides are model notation differences. Waveguide adapts set to suitable radar sets. (Note: models 3 and 4 are 90 yards/db and loaded Q: 4.7k.)	Maguire Industries Johnson Service Co	BuShips		
OCD	Signal Generator Equipment	Superseded by SG-18/U and AN/USM-27.	Gen Communications	USN		
OCP- 1 to 4	Sonar Portable Test Equipment	7 to 70kc in 4 bands $\pm 2\%$ of dial. Output: 0.25w to speaker, 1w to transducer. Output Z: 50 Ω .	David Bogen Co Chatham Electronics	BuShips	MIL-T-15866 (Ships) SHIPS-T-62	
OCR-1	Volt-Ohm-Milliammeter	0 to 2.5/10/25/100/250/1000v (ac/dc), 1k Ω /v. 0 to 10M Ω , 20k Ω midscale; 0 to 100k, 2k Ω midscale; 0 to 1k Ω , 20 Ω midscale. 0 to 10/100/1000ma (dc). -16 to +54db in 6 over lapping steps. -200 μ a (dc) fs, 1250 Ω meter with $\pm 2\%$ accuracy. Submersion Proof.	Triumph Mfg Co	BuShips	RE-13A-1020A	
OD-7	Vacuum Tube Analyzing Equipment	Used to measure dynamic mutual conductance and to test for opens and shorts. Ecc: 0-50vdc, Ib: 0 to 100ma, Epp: 0 to 300vdc, Er: 1.1 to 27.5vac, Ic: 0 to 1500ma, gm: 0 to 6000 μ mhos. Tube sockets: 4,5,6,7S,7L, octal, loctal, and acorn. Instrument accuracy: $\pm 2\%$.				
OE OE- 6 to 12	Receiver Analyzer	Consists of ac volt-capacity meter and dc VOM. Sensitivity and accuracy: ac 1000 Ω /v at 5%; dc 20k Ω /v thru 250v range at 2.5% 1000 Ω /v on others at 2.5%. Ranges: 0 to 800vac in 6 ranges; 100 μ f to 200 μ f; 0 to 1000vdc in 10 ranges; 0 to 100ma dc in 6 ranges; 0 to 10M Ω in 5 ranges. OE 6 to 12 differ from OE only in the use of different circuit analyzer assemblies.	Weston Electrical	USN		

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OJ-1	AF Impedance Measuring Equipment	R,L,C,Q, and D bridge. Frequency 1000 \pm 50cps. Ranges: .001 Ω to 1M Ω \pm 2%; 1 μ F to 100 μ f \pm 2%; D: .002 to 1 Ω \pm 20%; 1 μ h to 100h \pm 10%; Q: 0.02 to 1000 \pm 20%.	General Radio Co 650-A	USN		
OQ	Tube Tester	Measures proportional transconductance from 0 to 130% of mfrs mean rating. Plate and screen voltages: 35 to 130v. Filament voltage: 0 and 1.1v to 120v (4 scales). Sockets: 4,5,6,7 octal, loctal, 215A, acorn. Overall accuracy 6 to 8%.	Weston Electrical	BuShips	RE 13A955 RE 9423	
OQ 1 to 3	Tube Tester	Same as OQ except has 7 pin miniature socket.				
OZ-1	Tube Tester	Measures dynamic gm, voltage, current, resistance, capacity, and inductance. Detects gas leakage, noise, shorts and opens. Superseded by TV-3.	Hickok Electrical Inst 550-X	USN		
OZ-2	Tube Tester	All comments on OZ-1 apply to this model.				