NAVSHIPS 94200.4-2 Directory of Electronics Test Equipment - Supplement 2 Section 4.5 Field Intensity Measuring

13 December 1965	RADIO INTERFEREI	NCE MEASURING SET AN/PRM-27(XN-I)	
Cog Service: USN FSN:	Functional Class:		
USA	USN	USAF	
TYPE CLASS:	Used by		

MANUFACTURER'S NAME/CODE NUMBER: Stoddart Aircraft Radio Company, (78591).



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RADIO INTERFERENCE MEASURING SET AN/PRM-27(XN-1)

FUNCTIONAL DESCRIPTION:

Radio Interference Measuring Set AN/PRM-27(XN-1) is a portable highly versatile test instrument capable of analyzing the characteristics of all types of electromagnetic radiations within the frequency range of 10 to 250 kilocycles.

No field changes in effect at time of preparation (12 October 1965).

RELATION TO OTHER EQUIPMENT: None.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

TECHNICAL CHARACTERISTICS:

FREQUENCY RANGE: 10 to 250 kc in 4 bands. BAND 1: 10 to 22.4 kc.

RADIO INTERFERENCE MEASURING SET AN/PRM-27(XN-1)

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BAND 2: 22.4 to 50 kc.
   BAND 3: 50 to 112 kc.
   BAND 4: 112 to 250 kc.
TYPE OF RECEIVER: Single conversion superheteroayne.
INTERMEDIATE FREQUENCY: 455 kc.
MODES OF RECEPTION: Continuous-wave (AO and A1), amplitude-modulated (A2 and A3).
INPUT IMPEDANCE: 50 ohms (unbalanced).
iNPUT VSWR: Less than 1.2.1.
SENSI TI VI TY
   AS A TWO-TERMINAL 50 OHM RF VOLTMETER: Approx 1 uv for a unity signal-to-noise ratio; max
      input, 1.0 v.
   AS A FIELD INTENSITY METER: Approx 1.0 uv per meter to 10 v per meter.
   IN OTHER APPLICATIONS: Sensitivity is determined by the characteristics of the signal
      pickup device and the measurement freq.
SELECTIVITY
   IF BANDWIDTH, TWO POSITIONS
      BROAD POSITION: 2 kc at 6 db, 3.3 kc at 60 db.
      NARROW POSITION: 100 cps at 6 db, 420 cps at 60 db.
   RANDOM NOISE BANDWIDTH
      BROAD SELECTIVITY POSITION: 700 and 1200 cps.
      NARROW SELECTIVITY POSITION: 94 cps.
   IMPULSE NOISE BANDWIDTH
      NARROW SELECTIVITY POSITION: 150 cps.
SPURIOUS RESPONSE REJECTION: Better than 100 db.
LOCAL OSCILLATOR RADIATION: Less than 10<sup>4</sup> picowatts.
SHIELDING EFFECTIVENESS: Better than 130 db.
CALIBRATION: Internal pulse calibrator.
   REPETITION RATE: Approx 25 pps.
   OUTPUT LEVEL: Constant over entire freq range.
MEASUREMENT FACILITIES
   MEASUREMENT ACCURACY: Freq \pm 1%, Voltage \pm 1 db.
   DYNAMIC RANGE: 20 db, \pm 2 db above input signal level for full scale meter deflection
      w/full-scale AGC held constant.
   METERING CIRCUIT TIME CONSTANT
      FIELD INTENSITY: 600 msec charge and discharge.
      QUASI-PEAK: 1 msec charge, 600 msec discharge.
   PEAK MEASUREMENT FUNCTION: Manual slideback control.
   INDICATING METER: Two separate scales.
      TOP SCALE: Two decades logarithmic, calibrated from 0 to 100 uv.
      BOTTOM SCALE: Approx linear, calibrated from 0 to + 40 db.
OUTPUTS
   AUDIO OUTPUT, STANDARD HEADPHONE RECEPTACLE
      OUTPUT LOAD IMPEDANCE: 600 ohms.
      OUTPUT POWER: 25 mw into a 600 ohm resistive load.
      FREQUENCY RESPONSE: 2 db from 400 to 3000 cps (referenced to 0 db at 1000 cps).
   IF OUTPUT, TYPE BNC COAXIAL RECEPTACLE
      FREQUENCY: 455 kc.
      OUTPUT LOAD IMPEDANCE: High impedance.
      OUTPUT VOLTAGE: 260 mv (RMS) full-scale.
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RADIO INTERFERENCE MEASURING SET AN/PRM-27(XN-I)

OSCILLOSCOPE OUTPUT, TYPE BNC COAXIAL RECEPTACLE OUTPUT LOAD IMPEDANCE: Approx 1 megohm. OUTPUT VOLTAGE: Determined by percentage of modulation of input signal. FREQUENCY RESPONSE: Determined by IF bandwidth. REMOTE METER/RECORDER OUTPUT, TWO CIRCUIT HEAD-PHONE RECEPTACLE OUTPUT LOAD IMPEDANCE: 1500 ohms. OUTPUT CURRENT: 1 ma max.

POWER REQUIREMENTS

AC POWER SUPPLY: 105 to 125 or 210 to 250 v, 50 to 400 cps, 1 ph, 1.5 W.

INTERNAL BATTERY SUPPLY: 14 to 18 v dc, nickle cadmium battery, 60 ma, 15 hr battery

MAJOR COMPONENTS

QTY ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1 Radio Interference Measuring			
Set AN/PRM-27(XN-1) include	s:		
1 Association of the second se		9-1/2 × 12 × 21	9.35
1. RI-FI Meter, Unit 1, mfr no 92940-1	•	7 × 11-1/2 × 14	20.25
1 Rod Antenna Coupler, Unit 2 mfr no. 92943-1	2.	$3-1/2 \times 4-1/2 \times 5$	2.7
1. Ground Plane, Unit 3, mfr n	10.		2.35
02035-1			
1 Rod Antenna, 1/2 Meter, mfr no. 92221-2			0.375
1 Rod Antenna, 1 Meter, mfr n 92222-2	0.		0.5
1 Current Probe, mfr no. 9155	0-1	1-3/8 × 3 × 3-5/8	1.25
1 RF Loop Probe, mfr no. 9079	9-3	1/2 × 3-1/4 × 5-1/2	0.125
1 Coaxial Connector, mfr no.			0.125
11663			
1 Technical Manual Current Pr	obe	3/8 × 9 × 11-1/2	0.5
1 Cable Bag, mfr no. 91981-1		16 dia x 7	2.4
1 Remote Meter, Unit 4, mfr n 90070-14	0.	4 × 4-1/2 × 5-3/4	1.375
6 Cables			
2 Technical Manuals Test Set,	mfr	1 × 9 × 11	1.125
no. 92934-1			
1 Headphones, mfr no. 10796			1.0
1 Tripod Bag, mfr no. 92049-1		6 dia x 38	1.25
1 Tripod, mfr no. 91933-2			7.7
1 Loop Antenna, Unit 5, mfr n	0.		2.375
92938-1			

RADIO INTERFERENCE MEASURING SET AN/PRM-27(XN-1)

REFERENCE DATA AND LITERATURE:

PROJECT 319: Final Engineering Report on the Development of Three Prototype Models of the Radio Interference and Field Intensity Measuring Set (AN/PRM-27(XN-1)).

TUBE CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: Not required.

CRYSTALS: Not required.

SEMI-CONDUCTORS: (6) 1N816 (6) 2N835

SHIPPING DATA

PKGS

123

VOLUME (CU FT)

WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE: USN DESIGN COG: USN, BuShips SPEC &/OR DWG: SHIPS-E-2602A, TASK I PHASE II

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. Unit Cost
Stoddart Aircraft Radio Co.	Hollywood, California	NObsr-81133	

July 1965 Cog Service: USN	FSN:	MET Fu	R FIELD STRENGTH AN/URM-139(XN- nctional Class:	•1)
	USA	USN	USAF	<u> </u>
TYPE CLASS:		Used by		

MANUFACTURER'S NAME/CODE NUMBER: Motorola incorporated, (70117).





FUNCTIONAL DESCRIPTION:

Meter Field Strength AN/URM-139(XN-1) is a ten channel field strength measuring device of the absolute value type. A true indication of the absolute value of the energy radiated by a transmitter, having a carrier frequency corresponding to one of the ten channels, is provided by an integral meter. The equipment utilizes a unique application of logarithmic attenuation circuit to provide an analog readout on a linear db scaled milliampere movement meter. Some of the station characteristics that can be determined by this instrument are antenna efficiency, directivity characteristics and signal coverage.

No field changes in effect at time of preparation (11 June 1965).

RELATION TO OTHER EQUIPMENT: None.

4.5 AN/URM-139(XN-1): 1

METER FIELD STRENGTH AN/URM-139(XN-I)

EQUIPMENT REQUIRED BUT NOT SUPPLIED:

(2) 45 v battery; (1) 24 v battery; (1) Audio Oscillator TS-382A/U; (1) Technical Manual for TS-382A/U TM11-2684A; (1) Oscilloscope AN/USM-81; (1) Technical Manual for AN/USM-81
TM11-6625-219-12; (1) Multimeter ME-26/U; (1) Technical Manual for ME-26B/U TM11-6625-200-12; (2) Milliammeter Recorder RD-59/U; (1) Electronic Voltmeter ME-30/U; (1) Multimeter TS-352B/U; (1) Technical Manual for TS-352B/U TM11-5527; (1) Frequency Meter AN/USM-26.

TECHNICAL CHARACTERISTICS:

建设 化学生化学 磷酸磷酸 经资本资源公司

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FREQUENCY RANGE: 10 to 30 kc.
FREQUENCY STABILITY: ± 5 cps.
NUMBER OF CHANNELS: 10.
TYPE OF FREQUENCY CONTROL: Switched crystal.
TYPES OF RECEPTION: CW and noise.
RECEIVER TYPE: Superheterodyne.
INTERMEDIATE FREQUENCY: 60 kc.
IF BANDWIDTH: ± 25 cps (50 cps noise bandwidth).
LOCAL OSCILLATOR FREQUENCY RANGE: 70 to 90 kc.
DYNAMIC RANGE: 0 to 120 db.
RESPONSE ACCURACY: ± 0.5 db.
AMPLITUDE STABILITY: ± 1 db.
SENSITIVITY (S/N RATIO): 0 db for 10 uv/m (w/loop antenna); 0 db for 0.1 uv/m (50 ohm input).
IMAGE REJECTION: 60 db (min).
POWER DISSIPATION: 92 W max, 52 W avg.
OVEN TEMPERATURE RANGE: 62 to 68^{\circ} C (144 to 153° F).
AMBIENT TEMPERATURE RANGE: 0 to 50° C (0 to 122° F).
POWER SUPPLY CHARACTERISTICS
   INPUT REQUIREMENTS: 115 (± 11.5) v ac at 0.8 amp; or + 45 (± 4.5) v dc at 0.4 amp; - 45
      (\pm 4.5) v dc at 0.4 amp; 24 (\pm 2.4) v dc at 3 amp.
   OUTPUT VOLTAGES AND TOLERANCES: + 45 (+ 20 - 0) v dc; + 40 (\pm 0.4) v dc; + 10 (\pm 0.5)
      v dc, - 20 (± 1.0) v dc.
CRYSTAL SPECIFICATIONS
   FREQUENCY RANGE: 70 to 90 kc.
   FREQUENCY TOLERANCE: ± 0.5 cps from specified freq.
   OPERATING TEMPERATURE RANGE: 65^{\circ} \pm 5^{\circ} \in (149^{\circ} \pm 9^{\circ} F).
   STORAGE TEMPERATURE: - 65 to + 80^{\circ} C (- 85 to 176^{\circ} F).
   TEMPERATURE STABILITY: \pm 5 ppm for a \pm 5° C deviation from 60° C (140° F).
   CRYSTAL HOLDER: Same type as HC-13/U w/2 in. height.
   OPERATIONAL MODE: Series resonant at specific freq.
   CRYSTAL IMPEDANCE: 800 to 1,200 ohms.
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MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WE1C⊁1 (L∘ 21
1	Meter Field Strength AN/URM-139(XN-1) includes:		8-3/4 × 14 × 19	32
1	Loop Antenna Unit			
1	Transit Case			
1	Headset NT-49985-A			

4.5 AN/URM-139(XN-1): 2

	METER FIELD STRENGTH AN/U	RM-139(XN-1)	-
QTY ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1 Cable, Coaxial 1 Cable Power 4 Connectors Spare			
REFERENCE DATA AND LITERAT	URE:		
NAVSHIPS 94137: Technical	Manual for Field Strength	Meter AN/URM-139(XN-1).	
TUBE, CRYSTAL AND/OR SEMI-	CONDUCTOR DATA:		
TUBES: (1) 5904			
CRYSTALS: (1) 74.0KC (1 (1) 79.8KC (1) 74.8KC (1) 75.5KC (1) .) 82.3KC (1) 84.0KC (1)	77.44КС (1) 78.0КС 86.1КС	(1) 78.6KC
SEMI-CONDUCTORS: (4) 1N11 (1) SV13 (1) 1/4M (1) 1M2C (2) 2N44	8 (5) 1N483A (5) 1N914 4 (8) SG222 (1) 1.5M272 6.8Z5 (1) 1/4M5.6AZ5 (1 Z5 (1) 3/4M27Z5 (17) 4 7A (4) 2N697 (1) 2N1275	(1) 1N 2611 (5) SV 5 5 (1) 1.5M20 Z5 (1) 1) 1/4M4.7AZ5 (1) 1/4M1 X4D655 (1) 2N618 (2) 5 (1) 2N331 (1) 3N 40	(8) SV6 .5M10Z5 1Z5 2N656
	SHIPPING DATA		
PKGS	VOLUME (CU FT)		WEIGHT (LBS)
1 1	9 2.5		65 6
	PROCUREMENT DAT	A	
PROCURING SERVICE: USN SPEC &/OR DWG:		DESIGN COG: USN, BuShip	S
CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. Unit cost
Motorola Incorporated	Scottsdale, Arizona	N0bsr-77543	

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4.5 AN/URM-139(XN-1): 3

27 May 1965 Cog Service:	USN	FSN:	RADIO INTERFERENCE ME Fun	EASURING [·] nctional (TEST SET Class:	AN/URM-141(XN-1)
1999		USA	USN		USAF	
TYPE CLASS:			Used by			

MANUFACTURER'S NAME/CODE NUMBER: Stoddart Aircraft Radio Company, Inc., (78591).



RADIO INTERFERENCE MEASURING TEST SET AN/URM-141(XN-1)

FUNCTIONAL DESCRIPTION:

The Radio Interference Measuring Test Set AN/URM-141(XN-1) is a double conversion superheterodyne microwave Receiver using preselection with no RF preamplification. It can be used for interference measurement and location for military and commercial acceptance tests. It may also be used for frequency conservation and allocation studies, field intensity services, RF energy surveillance and verification, and systems compatibility determination. It is a basic instrument for use when ever a field strength meter or selective RF power meter is required.

No field changes in effect at time of preparation (31 March 1965).

RELATION TO OTHER EQUIPMENT: None.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

4.5 AN/URM-141(XN-1): 1

RADIO INTERFERENCE MEASURING TEST SET AN/URM-141(XN-1)

TECHNICAL CHARACTERISTICS:

FREQUENCY RANGE: 10 to 38 kmc. SENSITIVITY: 70 to 80 dbm. IMAGE REJECTION: 60 db. SPURIOUS RESPONSES: 60 db. LOCAL OSCILLATOR RADIATION: Less than 200 picowatts. SHIELDING EFFECTIVENESS: Greater than 90 db. MEASUREMENT ACCURACY FREQUENCY: Freq calibration is accurate to \pm 1%. POWER: Pwr calibration is accurate to \pm 2 db. INPUT IMPEDANCE: Max input VSWR 3:1. BANDWIDTH: 1 mc (6 db) 10 mc (6 db). INDICATING METER: 4-1/2 in. linear scale. AUDIO OUTPUT: 100 mw into 600 ohms. VIDEO OUTPUT: 20 cps to 5.0 mc. IF OUTPUT: 130 mc IF. VOLTAGE REGULATION: For a pwr line v change of \pm 10% the high voltage is regulated to within 0.05% and the filament voltage to within 0.5%. Other supply voltages are regulated to within 0.1%.

MAJOR COMPONENTS

<pre>1 Radio Interference Measuring Test Set AN/URM-141(XN-1) includes: 1 Rl-Fl Meter 10-50 kmc 1 Power Supply ac 1 Reflector Assembly 1 Antenna Mount 1 Waveguide Feed Assembly (10-16 kmc) 1 Waveguide Feed Assembly (16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U</pre>	QTY	ITEM	STOCK	NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
Test Set AN/URM-141(XN-1) includes: 1 RI-FI Meter 10-50 kmc 1 Power Supply ac 1 Reflector Assembly 1 Antenna Mount 1 Waveguide Feed Assembly (10-16 kmc) 1 Waveguide Feed Assembly (16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft 1g 2 Waveguide Flexible RG-53/U equivalent 2 ft 1g 2 Waveguide Flexible RG-96/U equivalent 2 ft 1g 2 Waveguide Flexible RG-96/U equivalent 2 ft 1g 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books	1	Radio Interference Measuring				
<pre>includes: 1 RI-FI Meter 10-50 kmc 1 Power Supply ac 1 Reflector Assembly 1 Antenna Mount 1 Waveguide Feed Assembly</pre>		Test Set AN/URM-141(XN-1)				
<pre>1 RI-FI Meter 10-50 kmc 1 Power Supply ac 1 Reflector Assembly 1 Antenna Mount 1 Waveguide Feed Assembly</pre>		includes:				
<pre>1 Power Supply ac 1 Reflector Assembly 1 Antenna Mount 1 Waveguide Feed Assembly</pre>	1	RI-FI Meter 10-50 kmc				
<pre>1 Reflector Assembly 1 Antenna Mount 1 Waveguide Feed Assembly (10-16 kmc) 1 Waveguide Feed Assembly (16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>	1	Power Supply ac				
<pre>1 Antenna Mount 1 Waveguide Feed Assembly (10-16 kmc) 1 Waveguide Feed Assembly (16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft 1g 2 Waveguide Flexible RG-53/U equivalent 2 ft 1g 2 Waveguide Flexible RG-96/U equivalent 2 ft 1g 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>	1	Reflector Assembly				
<pre>1 Waveguide Feed Assembly (10-16 kmc) 1 Waveguide Feed Assembly (16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>	1	Antenna Mount				
<pre>(10-16 kmc) 1 Waveguide Feed Assembly (16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>	1	Waveguide Feed Assembly				
<pre>1 Waveguide Feed Assembly (16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U</pre>		(10-16 kmc)				
<pre>(16-25 kmc) 1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>	1	Waveguide Feed Assembly				
<pre>1 Waveguide Feed Assembly (25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>		(16-25 kmc)				
<pre>(25-38 kmc) 1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>	1	Waveguide Feed Assembly				
<pre>1 Tripod 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books</pre>		(25-38 kmc)				
Waveguide Flexible RG-96/U equivalent 2 ft lg Waveguide Flexible RG-53/U equivalent 2 ft lg Waveguide Flexible RG-96/U equivalent 2 ft lg Cable, Power ac Cable, Power Interconnecting Headphones Chart Sets Instruction Books	1	Tripod				
equivalent 2 ft lg 2 Waveguide Flexible RG-53/U equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books	2	Waveguide Flexible RG-96/U				
Waveguide Flexible RG-53/U equivalent 2 ft lg Waveguide Flexible RG-96/U equivalent 2 ft lg Cable, Power ac Cable, Power Interconnecting Headphones Chart Sets Instruction Books		equivalent 2 ft lg				
equivalent 2 ft lg 2 Waveguide Flexible RG-96/U equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books	2	Waveguide Flexible RG-53/U				
Waveguide Flexible RG-96/U equivalent 2 ft lg Cable, Power ac Cable, Power Interconnecting Headphones Chart Sets Instruction Books		equivalent 2 ft lg				
equivalent 2 ft lg 1 Cable, Power ac 1 Cable, Power Interconnecting 1 Headphones 2 Chart Sets 2 Instruction Books	2	Waveguide Flexible RG-96/U				
 Cable, Power ac Cable, Power Interconnecting Headphones Chart Sets Instruction Books 		equivalent 2 ft lg				
 Cable, Power Interconnecting Headphones Chart Sets Instruction Books 	1	Cable, Power ac				
 Headphones Chart Sets Instruction Books 	1	Cable, Power Interconnecting				
2 Chart Sets2 Instruction Books	1	Headphones				
2 Instruction Books	2	Chart Sets				
	2	Instruction Books				

4.5 AN/URM-141(XN-1): 2

RADIO INTERFERENCE MEASURING TEST SET AN/URM-141(XN-1)

REFERENCE DATA AND LITERATURE:

NAVSHIPS 94784: Technical Manual for Radio Interference Measuring Set AN/URM-141(XN-1). Final Report on the Development of a Radio Interference Measuring Test Set AN/URM-141(XN-1), Ships-E-2602A.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

 T.UBES:
 (1)
 062
 (7)
 5670
 (3)
 0G3/85A2
 (2)
 5726/6AL5W
 (1)
 X13
 (2)
 5751

 (4)
 5842/417A
 (3)
 6098/6AR6WA
 (4)
 6360
 (6)
 6442
 (16)
 6688A
 (2)
 6AK5W

 (1)
 6BQ6GT
 (1)
 6CW4
 (14)
 12AX7

CRYSTALS: Not required.

 SEMI-CONDUCTORS:
 (1) 1N1590
 (1) 1N23C
 (1) 1N1766
 (1) 1N1805
 (1) 1N26
 (1) 1N1808

 (12) 1N2071
 (1) 1N26A
 (5) 1N3030B
 (4) 6F10
 (1) 1N53
 (5) 10J2

 (2) 50M120Z
 (1) 1N53B
 (1) MA460F
 (1) 2N274
 (1) 1N286
 (1) 2N277

 (4) 2N441
 (3) 1N295
 (1) 2N1008
 (2) 1N416EM
 (1) 2N1086
 (1) 1N468

 (4) 2N1136B
 (2) 1N589
 (1) 2N1218
 (2) 1N1132
 (1) 2N1547
 (7) 1N1138

 (2) 2N1557
 (4) 1N1142
 (1) 1/4M15Z10MM
 (1) 2N124
 (1) 2N1547
 (1) 2N1547

SHIPPING DATA

PKGS

VOLUME (CU FT)

WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE: USN SPEC &/OR DWG: SHIPS-E-2602A DESIGN COG: USN, BuShips

CONTRACTOR	LOCATION	CONTRACT OR Order No.	APPROX. Unit cost
Stoddart Aircraft Radio Company, Inc.	Hollywood, Calif.	NObsr 81133	

4.5 AN/URM-141(XN-1): 3

15 October 1964 Cog Service: USN	FSN: 2F5895-664-1146		GENERATOR, INTERFERENCE SG-354/U Functional Class:
	USA	USN	USAF
TYPE CLASS:		Used by	

MANUFACTURER'S NAME/CODE NUMBER: Thompson Ramo Wooldridge Inc., (59875).



GENERATOR, INTERFERENCE SG-354/U

FUNCTIONAL DESCRIPTION:

Generator, Interference SG-354/U is used for operational check of radio and radar receiving systems. Button must be depressed to continue operation. Audible buzzing indicates unit is operating.

No field changes in effect at time of preparation (30 September 1964).

RELATION TO OTHER EQUIPMENT:

EQUIPMENT REQUIRED BUT NOT SUPPLIED:

(1) Battery Thompson Ramo Wooldridge Pt. No. 06-600057.

4.5 SG-354/U: 1

SG-354/U GENERATOR, INTERFERENCE

TECHNICAL CHARACTERISTICS:

POWER SOURCE: 18 v dry cell battery. CURRENT DRAIN: 10 ma nom. BATTERY LIFE: Avg life 50 hrs. RANGE: Useful output 150 kc to 10000 mc; 15 to 25 ft from antenna.

MAJOR COMPONENTS

QTY	!TEM		STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Generator,	Interference SG-354/U	2F5895-664-1146	2-5/8 x 8-7/32	1

REFERENCE DATA AND LITERATURE:

NAVSHIPS 93399: Operation and Maintenance Instructions for Interference Generator SG-354/U.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: Not required.

CRYSTALS: Not required.

SEMI-CONDUCTORS: Not required.

SHIPPING DATA

PKGS

VOLUME (CU FT)

WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE: USN DESIGN COG: USN, BuShips SPEC &/OR DWG:

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. • UNIT COST
Thompson Ramo Wooldridge	Cleveland, Ohio	N0bsr-75787	
Inc.			