NAVSHIPS 900,228.42

Non-Registered

MAINTENANCE STANDARDS BOOK

for

RADIO RECEIVING EQUIPMENT RCK, RCK-a

SERIAL NO.____

OF MODEL

DEPARTMENT OF THE NAVY BUREAU OF SHIPS

> Approved by BuShips: 31 March 1958 Change 1: 1 September 1960

ii

PAGE NUMBER	CHANGE IN EFFECT	PAGE NUMBER	CHANGE IN EFFECT
Title Page	Change 1		
ii	Change 1		
iii to vii	Original		
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1-0 to $1-2$	Original	[2] J. A. Hannell, N.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1-3	Change 1		
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1-5 to 1-11	Change 1		
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2-9 and 2-10	Original		
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LIST OF EFFECTIVE PAGES

RCA SERVICE COMPANY CAMDEN, NEW JERSEY

Contract: NObsr 71851

Radio Receiving Equipment RCK, RCK-A NAVSHIPS 900228.42 REFERENCE STANDARD SUMMARY

Model		

Serial No.

Installed in

(Ship or Station)

After Radio Receiving Equipment RCK has been brought up to optimum performance and the reference standards accomplished, record in this summary sheet the standards which have been entered in this book. Forward this sheet to Chief, Bureau of Ships, Navy Department, Washington 25, D.C.

Step No.	Reference Standard	Step No.	Reference Standard	Step No.	Reference Standard
A1	VAC	B1	μA	C1	μV
A2	VDC		КС	C2	μν
A3	VDC	B2	μA	C3	μV
			KC	C4	КС

List all field changes which have been accomplished on this equipment

Signature

Title-Position

Date

CHANGE 1

FRONT MATTER RCK, RCK-A

NAVSHIPS 900228, 42

PROMULGATING LETTER



DEPARTMENT OF THE NAVY BUREAU OF SHIPS WASHINGTON 25, D. C.

IN REPLY REFER TO Code 993-100

From: Chief, Bureau of Ships .To: All Activities concerned with the Operation and Maintenance of the Subject Equipment

Subj: Maintenance Standards Book for Radio Receiving Equipment RCK, RCK-a, NAVSHIPS 900,228.42

1. This is the Maintenance Standards Book for the subject equipment and is in effect upon receipt. This publication applies only to the equipment, the serial number and designation of which appear on the cover and title page.

2. When superseded by a later edition, this publication shall be destroyed.

3. Extracts from this publication may be made to facilitate the preparation of other Department of Defense publications.

4. Errors found in this publication (other than obvious typographical errors), which have not been corrected by means of Temporary Corrections or Permanent Changes, should be reported. Such report should include the complete title of the publication and the publication number (short title); identify the page and line or figure and location of the error; describe the error or indicate what change should be made; and be forwarded to the Electronics Publications Section of the Bureau of Ships.

5. All Navy requests for NAVSHIPS electronics publications should be directed to the nearest Bureau of Supplies and Accounts Forms and Publications Supply Point. When changes or revised books are distributed, notice will be included in the Electronics Information Bulletin, NAVSHIPS 900,022, and in the Index of Bureau of Ships General and Electronics Publications, NAVSHIPS 250-020.

> A. G. MUMMA Chief of Bureau

RECORD OF ENTRIES AND CORRECTIONS

ORIGINAL DATA RECORDED BY				DATE	10	
AFFILIATION	NA	VAL LOC	ATION			
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FRONT MATTER RCK, RCK-A

1.

RECORD OF FIELD CHANGES

Field Changes considered in preparation of this book: FC 1 thru 4.

FIELD CHANGE	DATE	STEPS A	FFECTED	FIELD CHANGE	DATE	STEPS A	FFECTED
NUMBER	COMPLETED	PAGE NO	STEP NO	NUMBER	COMPLETED	PAGE NO	STEP NO
Mark 1							
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*Revisions necessitated by these field changes have been incorporated in this book.

R. F. SECTION



INTRODUCTION

The purpose of this book is to describe a series of specially developed tests and measurements, the results of which may be used for reference when determining the equipment condition during future tests.

Part I, "Test Procedures and Maintenance References", consists of a series of tests that, when completed, will indicate the relative performance of the equipment. These tests and measurements, known as reference standards, are made at critical or significant points when the equipment is known to be performing at the maximum of its capabilities. The reference standards apply only to the equipment to which this book is permanently assigned, and because of this individuality are of even greater value.

Standards are to be established upon receipt of this book, and should be re-established after equipment overhaul. Prior to establishing the initial standards for equipment, each functional section shall first be checked to insure that the equipment is operating to the optimum of its capabilities. After the overall checking and peaking of sections the prescribed tests and measurements shall be made, and the results entered in the spaces provided. The standards are to be entered in ink, and the person performing the tests shall sign his name and enter the appropriate information on page iv of this book. Extreme care should be taken when making reference standard measurements to insure that the correct procedures are implicitly followed, otherwise the recorded standard will be uselsss. A reference standard summary (tear-out sheet) is in the front of this book. Record on it all standards obtained and list all field changes which have been accomplished, and forward to the address shown thereon.

The tolerances shown in parentheses in the reference standard column of this book are not absolute limits. They are intended merely to serve as a guide for the person performing the tests in establishing the standard.

Steps representing reference standards are of prime importance, for they indicate whether or not the equipment is performing at maximum efficiency. When the performance drops below the minimum acceptable standard, refer to NAVSHIPS 900228, Technical Manual for Radio Receiving Equipment Model RCK for service and repair procedures.

To correlate the reference standard steps with the steps on the Performance Standard Sheet, NAVSHIPS 900228.32, the step numbers have been designated by a star.

Part II, "Preventive Maintenance Check-Off" contains a series of tests which provide a systematic and efficient method of checking equipment, and of performing routine preventive maintenance.

Upon receipt of this book, use ink to record the serial number of the RCK to which it is permanently assigned. The serial number is entered in the space provided on both the cover and the title page. Also fill in complete date for the two-year period covered.

The book contains daily, weekly, monthly and quarterly steps. A number of these steps are designated "Operational Maintenance" (O. M.) and should be performed by operating personnel to lighten the technician's work load. The time required is not a fixed standard, but an average established by testing personnel of varied experience.

In some cases the illustrations for the maintenance steps are not on the facing page but are referenced elsewhere in the book. On those illustrations used for both reference standards and preventive maintenance steps, the preventive maintenance step is denoted by a white circle with black figures while the reference standards are denoted by a black circle with white figures.

A cross-reference table is given below so that the Preventive Maintenance Check-Off tests can be accurately related to the Reference Standards accomplished in Part I of this book.

Charts are provided for the initials of the person performing the checks. In cases where the result of the check is a measurable quantity, space is also provided for recording the result.

MAINTENANCE CHECK-OFF			EQUIVALENT REFERENCE STANDARD		
Frequency Period	Time Required	Step Number	Section	Step Number	
Daily	10 min.	1 2	A	None 3	
Weekly	1/4 hour	1		None	
Monthly	20 min.	1 and 2	В	1 and 2	
Quarterly	1-1/2 hour	.1 thru .3 1 and 2 3 and 4 5	C A C	1 thru 3 None 1 and 2 4	

The following table lists test equipment and special tools required in the performance of the tests and maintenance procedures described herein.

TEST EQUIPMENT (OR EQUIVALENTS) AND SPECIAL TOOLS REQUIRED

DESCRIPTION AND NOMENCI ATURE		USED IN PART						
DESCRIPTION AND NOMENCLATURE		I		п				
	Α	В	C	D	W	М	Q	
Multimeter AN/PSM-4 Series	x	x	1001			x	x	
Signal Generator AN/URM-26 Series			x			x	x	
Frequency Meter TS-186/UP Series			x				x	
Output Meter TS-585/U Series or ME-6()/U Series*			x	-			x	
Phone Plug Adapter			x				x	
	11.1 ⁻¹ .			Los				

* ME-6()/U Series requires a 600-ohm non-inductive resistor across terminals.

SPECIAL PROCEDURES

- 1. Energize the Radio Receiving Equipment RCK, RCK-A as instructed in the operating procedure given in the Technical Manual, NAVSHIPS 900228. Allow 10 minutes warm-up time after energizing equipment.
- 2. The Operate conditions referred to in these reference standards mean that the equipment should be operating under full load with all controls in their normal position for the function listed, unless otherwise specified.
- 3. All test equipment should be disconnected at the completion of a reference standard. All cables, terminal board connections, tubes, etc., which have been disconnected or removed in the course of a reference standard should be restored to their original position at the completion of the reference standard.
- 4. Unless specifically instructed in a reference standard test procedure the following controls should be set in the indicated position. If the setting of any of these controls is changed in the course of a reference standard measurement, the control should be returned to the specified position upon completion of the reference standard.

NOISE LIMITER OUTPUT METER switch (S-202): OM PHONES volume control (R-255): Maximum SILENCER control (R-240): O RECEPTION switch (S-201): AVC OFF AF GAIN control (R-251): Maximum gain AF BAND switch (S-204): BROAD RF GAIN control (R-232): Maximum gain POWER switch (S-205): ON



POWER SECTION

PART I

TEST PROCEDURES AND MAINTENANCE REFERENCES





NAVSHIPS 900228.42 POWER SECTION

3

STEPS THRU

NOTE

THE POWER VOLTAGE MEASUREMENTS DEPEND UPON THE PROPER SETTING OF POWER INPUT PRIMARY SWITCH S-301.

RCK, RCK-A in Operate Condition. AF GAIN control (R-251): 0

RF GAIN control (R-232): 0

STEP NO.	ACTION REQUIRED	PRELIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
1	Measure and re- cord input line voltage.	Turn the POWER switch (S-205) OFF. Connect Multimeter AN/PSM-4 to fuse holder terminals F-301 and F-302. Turn the POWER switch (S-205) ON.	Multimeter AN/PSM-4	VAC (105 to 125)
2	Measure and re- cord regulated B+ voltage.	Turn the POWER switch (S-205) OFF. Connect the multimeter positive lead to pin 5 of V-302 and the negative lead to chassis ground. Turn the POWER switch (S-205) ON.	Multimeter AN/PSM-4	VDC (148 to 152)
3	Measure and re- cord nominal B+ voltage.	None.	Plate Meter (M-203)	VDC (170 to 180)
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NAVSHIPS 900228.42 OSCILLATOR SECTION

NAVSHIPS 900228.42 OSCILLATOR SECTION

STEP

RCK, RCK-A in Operate Condition.

AF GAIN control (R-251): 10 RF GAIN control (R-232): 10 CHANNEL switch (S-101): Position 4

STEP	ACTION	PRE LIMINARY	READ	REFERENCE
NO.	REQUIRED	ACTION	INDICATION ON	STANDARD
1	Measure and re- cord oscillator multiplier grid current and alignment.	 Turn POWER switch (S-205) OFF. Set the multimeter to the 0 - 100 microamp scale. Connect the multimeter negative lead to jack J-102 and positive lead to chassis ground. Insert a crystal with an approximate frequency of 150 MC in the number 4 crystal holder (X-109). Turn the POWER switch (S-205) ON. Tune the dial carefully to the channel frequency as marked on the crystal for a maximum indication on the multimeter. Record the multimeter reading. Record the difference between the tuning dial reading and frequency marked on crystal. 	Multimeter AN/PSM-4 Receiver Tuning Dial	$\frac{1}{(5 \text{ to } 12)} \mu A$ $\frac{1}{(500 \text{ max.})} KC$ (500 max.)

ORIGINAL



RCK, RCK-A

RADIO RECEIVER (TOP FRONT VIEW)



PART I - SECTION B STEP 2

NAVSHIPS 900228.42 OSCILLATOR SECTION



STEP 2

RCK, RCK-A in Operate Condition.

AF GAIN control (R-251): 10 RF GAIN control (R-232): 10 CHANNEL switch (S-101): Position 1

STEP NO.	ACTION REQUIRED	PRE LIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
2	Measure and re- cord oscillator multiplier grid	Repeat Step 1, except in- sert a crystal with an ap- propriate frequency of	Multimeter AN/PSM-4	$\frac{\mu A}{(5 \text{ to } 12)}$
	alignment.	crystal holder (X-106).	Receiver Tuning Dial	(500 max.)



NAVSHIPS 900228.42 RECEIVING SECTION

STEP

RCK, RCK-A in Operate Condition.

CHANNEL switch (S-101): Position 1 A-V-C circuit disabled (see page x, xi).

STEP NO.	ACTION REQUIRED	PRELIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
*	Measure receiver sensitivity on 119 MC.	Turn POWER switch (S-205) OFF. Insert a crystal with an approximate fre- quency of 119 MC in the number 1 crystal holder (X-106). Turn the POWER switch (S-205) ON. Tune the receiver for maximum indication on OUTPUT meter (M-202). Discon- nect the antenna from jack J-101, and connect Signal Generator AN/URM-26. Set Output Meter TS-585/U to 5-millivolt range, im- pedance to 600 ohms, and connect to jack J-304 at rear of receiver. Tune the signal generator to receiver frequency, modulated 30 percent at 1000 cycles. Increase sig- nal generator output until that setting is reached which produces a differ- ence in output indication (when switching signal gen- erator modulation on and off) of 10 db on Output Meter TS-585/U. Record the signal generator output microvolts knob setting.	Signal Generator AN/URM-26	
	If a differ impossib limiting. setting ar reached w when mod	rence power indication of 10 db le to obtain, the receiver audio In this case, reduce AF GAIN ad repeat the above procedure which will allow a 10 db rise in dulation is applied to signal gen	o on output meter is o amplifier may be N control (R-251) until a setting is n output indication merator.	i.

CHANGE 1

1-7



NAVSHIPS 900228.42 RECEIVING SECTION



RCK, RCK-A in Operate Condition.

CHANNEL switch (S-101): Position 2 A-V-C circuit disabled (see page x, xi).

STEP NO.	ACTION REQUIRED	PRE LIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
*	Measure receiver sensitivity on 135.5 MC.	Repeat step 1, except in- sert a crystal with an ap- proximate frequency of 135.5 MC in the number 2 crystal holder (X-107). Record the signal generator output microvolts knob setting.	Signal Generator AN/URM-26	$\frac{1}{(7 \text{ max.})} \mu V$
*	Measure receiver sensitivity on 152 MC.	Repeat step 1, except in- sert a crystal with an ap- proximate frequency of 152 MC in the number 3 crystal holder (X-108). Record the signal generator output microvolts knob setting.	Signal Generator AN/URM-26	(7 max.) ^μ V



NAVSHIPS 900228.42 RECEIVING SECTION

STEP

RCK, RCK-A in Operate Condition.

AF BAND switch: NARROW CHANNEL switch (S-101): Position 1 A-V-C circuit disabled (see page x, xi).

STEP NO.	ACTION REQUIRED	PRELIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
4	Record receiver bandwidth on 135.5 MC.	Turn POWER switch (S-205) OFF. Insert a crystal with an ap-	Calculate	KC (190 to 210)
	Tum DOWER quit	135.5 MC in the number 2 crystal holder (X-107).	coiver for maximu	m indication on
	output meter (M-	(S-205) ON, and tune the red	ceiver for maximum	n marcation on
12	Disconnect the ant	enna from jack J-101 and conne	ect Signal Generato	r AN/URM-26.
	Set Output Meter 7 jack J-304 at rea	US-585/U range to X1, impedar of receiver.	nce to 600-ohms, an	nd connect to
	Modulate signal ge (peak on output m reads 10 milliwa	enerator 30 percent at 1000 cyc neter), and increase the output tts.	les, tune to receive level until Output I	er frequency Meter TS-585/U
	Slowly increase signators 6 db.	gnal generator output frequency	y until Output Mete	r TS-585/U
	Disconnect signal input.	generator cable from J-101 and	d connect to freque	ncy meter r-f
	Increase signal gen and record.	merator output level to 10,000 /	μV , determine exac	et r-f frequency,
	Decrease signal ge	enerator output level to minimu	um.	
	Reconnect signal g except decrease	enerator cable to J-101 on rec signal generator output frequen	eiver and repeat at acy below 135.5 MC	oove procedure, C, and record.
8- C	Subtract the second	d frequency from the first freq	uency and record a	s the bandwidth.

NAVSHIPS 900228.42

PART II

O.M. - Designates PREVENTIVE MAINTENANCE CHECK OFF Operational Maintenance

RCK, RCK-A in Operate Condition.

STEP NO.	ACTION REQUIRED	PROCEDURE
(1) о. м.	Perform opera- tional check on radio receiving equipment.	Refer to Technical Manual NAVSHIPS 900228, Section 5 for Operating Instructions.
		In Port Procedure The equipment should not be energized for the sole purpose of making daily checks. The equipment should, however, be energized at least twice a week and at least two days before getting underway. Enter "In Port" in the chart when appropriate.

NAVSHIPS 900228.42

STEP 10

DAY																					
1		+	<u> </u> .	+	+	+	+	-		-	-	-	-	+	-	-	+	-	-	+	╞
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Enter the name of the month in which the maintenance step is begun in the first empty

PART II - DAILY

NAVSHIPS 900228.42

NOTE

STEP (2D

THE POWER VOLTAGE MEASUREMENTS DEPEND UPON THE PROPER SETTING OF POWER INPUT PRIMARY SWITCH S-301.

O. M. - Designates Operational Maintenance

RCK, RCK-A in Operate Condition. AF GAIN control (R-251): 0

RF GAIN control (R-232): 0

STEP NO.	ACTION REQUIRED	PRELIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
2D 0. M.	Measure and re- cord nominal B+ voltage.	Refer to page 1-0 for illus- tration.	Plate Meter (M-203)	VDC (170 to 180)

STEP 2 D

Enter the name of the month in which the maintenance step is begun in the first empty block of the top row. Fill in the names of the months consecutively thereafter for a period of two years. Initial the chart and log the results after performing step 2D. DAY

O.M. - Designates Operational Maintenance

1W

STEP

RCK, RCK-A De-energized.

STEP NO.	ACTION REQUIRED	PROCEDURE
1₩ 0. M.	Clean and inspec equipment ex- terior.	t Using a soft dry clean cloth wipe the entire surface area of the receiver to remove dust. Inspect externally for loose connections and corrosion.
1	Month	
Week 1	Initial	
2	Initial	
3	Initial	
4	Initial	
5	Initial	
11	Month	
Week 1	Initial	
2	Initial	
3	Initial	
4	Initial	
5	Initial	

RCK, RCK-A in Operate Condition.

AF GAIN control (R-251): 10 RF GAIN control (R-232): 10 CHANNEL switch (S-101): Position 4

STEP NO.	AC REQ	TION UIRE	D			IND	RE. ICAI	AD ION C	N	RE S'	FER TANI	ENC DAR	E D			
	Measur cord o multij curre	re and oscilla plier g nt and	re- tor grid	Refer trat Turn OFI	r to pag tion. POWE F.	ge 1-2 R swit	for ille ch (S-2	18- 205)	Mul Al	time N/PS	ter M-4		(5	to 12	:)	μA
	alignr	nent.	0-100 microamp scale. Connect the multimeter to the negative lead to jack J-102 and positive lead to chassis ground. Insert a crystal with an approximate frequency of 150 MC in the number 4 crystal holder (XY-104). Turn the POWER switch						Receiver Tuning Dial			ng	(500 max		ax.)	KC
				Turn the POWER switch (S-205) ON. Tune the dial carefully to the channel frequency as marked on the crystal for a maximum indication on the multimeter. Record the multimeter reading. Record the difference between the tuning dial reading and frequency marked on crystal.												
STEP NO.	Month															
	Initial Date Record						-									
STEP NO.	Month															
	Initial											-				
	Record														-	

PART II - MONTHLY



RCK, RCK-A in Operate Condition. AF GAIN control (R-251): 10 RF GAIN control (R-232): 10 CHANNEL switch (S-101): Position 1

STEP NO.	AC REG	UIRE	D	PRELIMINARY ACTION					INDI	REA CAT	ad Ion o		EFERE TAND	INCE ARD		
2M	Measure and re- cord oscillator multiplier grid current and alignment.			Refer to page 1-4 for illus- tration. Repeat Step 1M, except insert a crystal with an approximate frequency of 118 MC in the number 1 crystal holder (XY-101).					Mult AN Rece Dia	imet /PSI iver al	er M-4 Tunin	g(5	μA (5 to 12) <u>KC</u> (500 max.)			
														1		
STEP NO.	Month															
21	Initial Date Record										- 5		~			
STEP NO.	Month									-						
2M	Initial Date Record															

STEP (.1

RCK, RCK-A in Operate Condition.

CHANNEL switch (S-101): Position 1 A-V-C circuit disabled (see page x, xi).

STEP NO.	ACTION REQUIRED	PRE LIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
10	Measure receiver sensitivity on 119 MC.	Refer to page 1-6 for illus- tration. Turn POWER switch (S-205) OFF.	Signal Generator AN/URM-26	$(\overline{7 \text{ max.}})^{\mu V}$
	Insert a crystal with holder (X-106). Turn the POWER so Tune the receiver f Disconnect the ante Set Output Meter To to jack J-304 at re Tune the signal gen cycles. Increase signal gen ence in output indi 10 db on Output M Record the signal g	h an approximate frequency of witch (S-205) ON. for maximum indication on OU nna from jack J-101, and com S-585/U to 5-millivolt range, ear of receiver. erator to receiver frequency, erator output until that setting ication (when switching signal eter TS-585/U. enerator output microvolts kn	f 119 MC in the num TPUT meter (M-20) nect Signal Generato impedance to 600 of modulated 30 perce g is reached which p generator modulation ob setting.	ber 1 crystal 2). or AN/URM-26. hms, and connect ent at 1000 roduces differ- on on and off) of
		NOTE		
	If a differ impossib limiting. setting ar reached y when mod	rence power indication of 10 d le to obtain, the receiver audi In this case, reduce AF GAI ad repeat the above procedure which will allow a 10 db rise in dulation is applied to signal ge	b on output meter is to amplifier may be N control (R-251) until a setting is n output indication enerator.	

STEP	1st QUARTER			2nd QUARTER			3r	d QUART	TER	4th QUARTER		
NO.	μV	Initial	Date	μV	Initial	Date	μV	Initial	Date	μV	Initial	Date
(10	1 (2)		- 1- -									
STEP	5t	5th QUARTER			6th QUARTER			7th QUARTER			h QUAR'	TER
NO.	μV	Initial	Date	μV	Initial	Date	μV	Initial	Date	μV	Initial	Date
10					1 1 7						<i>i</i> ,	

CHANGE 1

STEPS (20) AND (30)

RCK, RCK-A in Operate Condition.

CHANNEL switch (S-101): Position 2 A-V-C circuit disabled (see page x, xi).

STEP NO.	ACTION REQUIRED	PRELIMINARY ACTION	READ INDICATION ON	REFERENCE STANDARD
20	Measure receiver sensitivity on 135.5 MC.	Refer to page 1-8 for illus- tration. Repeat step .1Q, except in- sert a crystal with an ap- proximate frequency of 135.5 MC in the number 2 crystal holder (XY-102). Record the signal generator output microvolts knob setting.	Signal Generator AN/URM-26	μV (7 max.)
30	Measure receiver sensitivity on 152 MC.	Refer to page 1-8 for illus- tration. Repeat step .1Q, except in- sert a crystal with an ap- proximate frequency of 152 MC in the number 3 crystal holder (XY-103). Set CHANNEL switch (S-101): position 3. Record the signal generator output microvolts knob setting.	Signal Generator AN/URM-26	(7 max.) μV

STEP	15	t QUART	ER	2nd QUARTER			3r	d QUART	TER	4th QUARTER			
NO.	μV	Initial	Date	μV	Initial	Date	μV	Initial	Date	μV	Initial	Date	
.20								211.		2			
.30													
STEP	5t	h QUARI	ER	6t	h QUARI	ER	7th	QUART	ER	8t	h QUAR	TER	
NO.	$\mu \mathbf{V}$	Initial	Date	μV	Initial	Date	μV	Initial	Date	μV	Initial	Date	
20			in a la constante Anos in a constante										
30													

CHANGE 1

2-8

PART II - QUARTERLY STEPS 10 AND 20

RCK, RCK-A De-energized.

STEP NO.	ACTI REQUI	ON RED		P	ROCEDUR	Ξ	that is				
10	Clean equi	Clean equipment. Remove the main chassis from cabinet. Remove cha Clean the chassis and the cabinet with a vacuum cle Remove all dirt and lint from switches, terminal b tubes, tube sockets, etc. If all dirt cannot be rem vacuum cleaning, use a dry brush to loosen or rem posits. Remove especially stubborn deposits with lint free cloth moistened with solvent, Navy Type Remove all corrosion and rust. Polish connectors jacks, etc. with crocus cloth or #0000 sandpaper v necessary.									
20	General inspec- tion of electri- cal components. Visually inspect all components of each unit. Replace all bulged or leaking capacitors and remove all residue deposi by the faulty unit. Inspect resistors and wiring for indication of overheating. If such indication is observed, further maintenance is necessary. Refer to the appropriate Techn Manual and correct the condition. Inspect all cables and wiring for frayed cut, deteriorated, or cracked insulation, kinks or strain and correct all such conditions found.										
STEP	1st QU	ARTER	2nd QU	ARTER	3rd QU	ARTER	4th QU	ARTER			
NO.	Initial	Date	Initial	Date	Initial	Date	Initial	Date			
10											
20											
STEP	5th QUA	RTER	6th QU	ARTER	7th QU	ARTER	8th QUA	RTER			
NO.	Initial	Date	Initial	Date	Initial	Date	Initial	Date			
	· · ·	7.5			2 V.	8					
20								6			

STEPS (30) AND (40

NOTE

THE POWER VOLTAGE MEASUREMENTS DEPEND UPON THE PROPER SETTING OF POWER INPUT PRIMARY SWITCH S-301.

RCK, RCK-A in Operate Condition. AF GAIN control (R-251): 0

RF GAIN control (R-232): 0

STEP NO.	AC REC	CTION QUIREI	D	PRELIMINARY ACTION				F INDIC	READ	N S	REFERENCE N STANDARD		
30	Measure and re- cord input line voltage. Measure and re- cord regulated B+ voltage.			Refer to page 1-0 for illus- tration. Turn the POWER switch (S-205) OFF. Connect the multimeter to fuse holder terminals F-301 and F-302. Refer to page 1-0 for illus- tration. Turn the POWER switch (S-205) OFF. Connect the multimeter positive lead to pin 5 of V-302 and the negative lead to chassis ground. Turn the POWER switch (S-205) ON.				Multimeter AN/PSM-4 Multimeter AN/PSM-4			VAC (105 to 125) VDC (148 to 152)		
40													
				Upon c copy o Supply	comple of this b Distri	tion of t book fro	he sixt m the r Point.	h quart nearest	erly che Forms	eck, or and Pu	der a n blicatio	ew ons	
STEP	1st QUARTER			2nd QUARTER 3r			3rd	QUART	ER	4th OUARTER			
NO.	Initial	Date	Record	Initial	Date	Record	Initial	Date	Record	Initial	Date	Record	
30							a	5.3			1		
40													
STEP	5th QUARTER			6th QUARTER			7th	7th QUARTER			8th QUARTER		
NO.	Initial	Date	Record	Initial	Date	Record	Initial	Date	Record	Initial	Date	Record	
30												-	
40													

RCK, RCK-A in Operate Condition.

AF BAND switch: NARROW CHANNEL switch (S-101): Position 2 A-V-C circuit disabled (see page x, xi).

STEP NO.	ACTION PRELIMINARY REQUIRED ACTION		READ INDICATION ON	REFERENCE STANDARD						
50	Record receiver bandwidth on 135.5 MC.	Turn POWER switch (S-205) OFF. Insert a crystal with an ap- proximate frequency of	Calculate	(190 to 210)						
	135.5 MC in the number 2 crystal holder (X-107).									
	Turn POWER switch (S-205) ON, and tune the receiver for maximum indication on									
- 6	output meter (M-202). Disconnect the entenne from jack L-101 and connect Signal Concretor AN/UDM-26									
	Set Output Meter TS-585/U range to X1, impedance to 600-ohms, and connect to iack J-304 at rear of receiver.									
	Modulate signal generator 30 percent at 1000 cycles, tune to receiver frequency (peak on output meter), and increase the output level until Output Meter TS-585/U reads 10 milliwatts.									
, inco	Slowly increase signal generator output frequency until Output Meter TS-585/U drops 6 db.									
	Disconnect signal generator cable from J-101 and connect to frequency meter r-f input.									
	Increase signal generator output level to 10,000 μ V, determine exact r-f frequency, and record, MC.									
13.2	Decrease signal generator output level to minimum.									
4	Reconnect signal generator cable to J-101 on receiver and repeat above procedure, except decrease signal generator output frequency below 135.5 MC, and record.									
	Subtract the second frequency from the first frequency and record as the bandwidth.									

STEP NO.	1st QUARTER			2nd QUARTER			3rd QUARTER			4th QUARTER		
	КС	Initial	Date	кс	Initial	Date	KC	Initial	Date	KC	Initial	Date
50									ŝ			
STEP NO.	5th QUARTER			6th QUARTER		7th QUARTER			8th QUARTER			
	KC	Initial	Date	кс	Initial	Date	КС	Initial	Date	кс	Initial	Date
50		e da g										

「その言子のの意味」の言語 र जालग र भारतिहर संसर 時間の「日本語言 $\sum_{i=1}^{n} \cdots \geq \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n}$ 181 and the second 的复数形式 We and the Martin a Spire he was first a first start of the 3 1 g 1 Ry plan stra alle a Maria de Araba - Alema Spin Shire & 3833 1.1 · States 12 (A) $= \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right)^2 \right)^{-\frac{1}{2}} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right)^2 \right)^{-\frac{1}{2}} \left(\frac{1}{2} \left(\frac{1}{2} \right)^2 \right)^{-\frac{1}{2}} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right)^2 \right)^{-\frac{1}{2}} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2}$ Server Base Reality Stange States Lating South and the second state of the second state segur de Paris a series of the (\hat{s}^{*}) and the states enter des i der and share 保持 化水和水合合金 -1_k and the second and the second Section Sugar 11.13 - Name 10 Reprie J Brite 1