

FREQUENCY STUDY

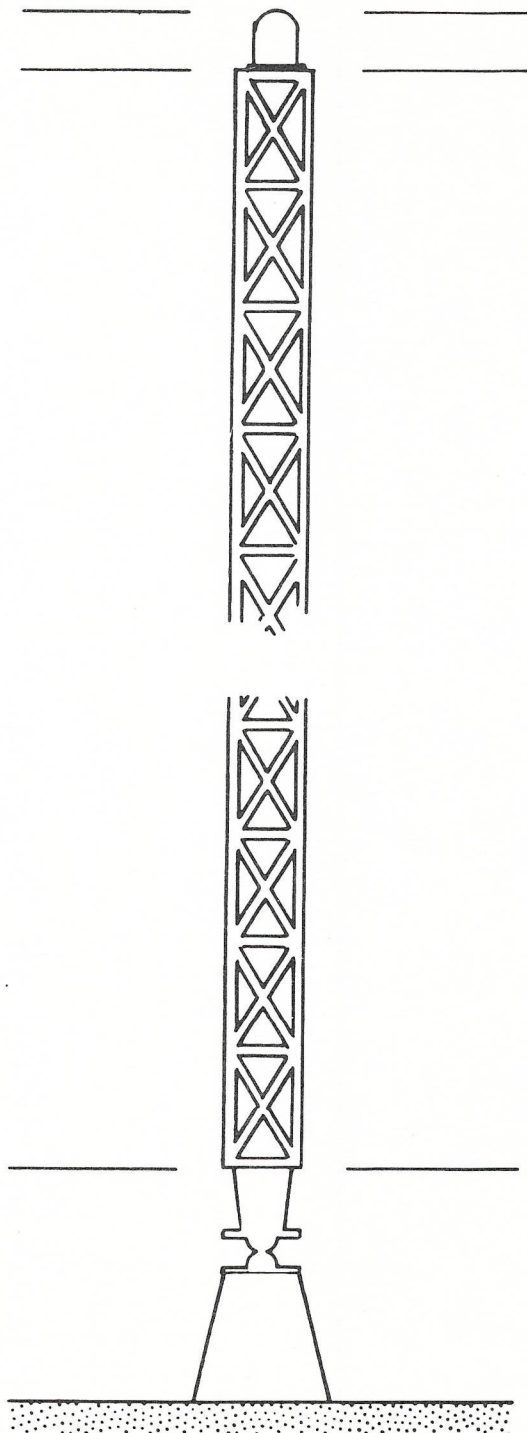
BY _____

[illegible]

GEORGE C. DAVIS
CONSULTING ENGINEER
RADIO • TELEVISION
WASHINGTON 4, D. C.

ABOVE
GROUND

ABOVE MEAN
SEA LEVEL



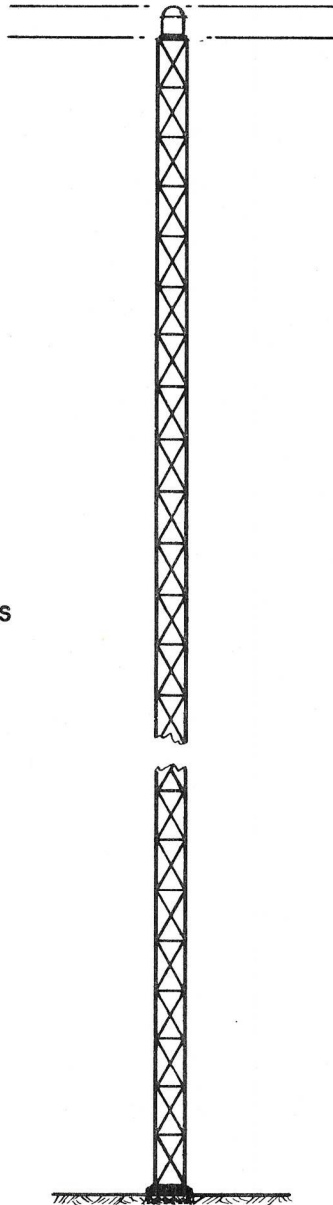
ELEVATION
PROPOSED STRUCTURE

**GEORGE C. DAVIS
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RADIO-TELEVISION
WASHINGTON 4, D. C.**

**ABOVE
GROUND**

**ABOVE
MEAN SEA LEVEL**

**PAINTING AND LIGHTING
WILL BE IN ACCORDANCE
WITH F.A.A. REGULATIONS**



PARAMETER FORMAT

FOR EDX PROGRAM

PART 1

JOB ID (35 CHARACTERS MAX)									
STA NO	CALL(5 SP)	FREQ							
LAT 1	MIN	SEC	LONG1	MIN	SEC				
PATT (4 SP)									
NO OF TWR	PWR (kW)	RMS/km THEO	1 = STD 2 = THEO	K	RLOSS	-1 Q	NO OF AUG		
TWR NO(1)	FIELD RAT(1)	PHASE(1)	SPAC(1)	ORIENT(1)	REFERENCE	HTA(1)	HTB(1)	HTC(1)	HTD(1)
TWR NO(2)									
TWR NO(3)									
TWR NO(4)									
TWR NO(5)									
TWR NO(6)									
TWR NO(7)									
TWR NO(8)									
TWR NO(9)									
TWR NO(10)									
TWR NO(11)									
TWR NO(12)									
AZ AUG(1)	SPAN(1)	RAD AUG(1)			AZ AUG(11)				
AZ AUG(2)					AZ AUG(12)				
AZ AUG(3)					AZ AUG(13)				
AZ AUG(4)					AZ AUG(14)				
AZ AUG(5)					AZ AUG(15)				
AZ AUG(6)					AZ AUG(16)				
AZ AUG(7)					AZ AUG(17)				
AZ AUG(8)					AZ AUG(18)				
AZ AUG(9)					AZ AUG(19)				
AZ AUG(10)					AZ AUG(20)				

PART 2

NO OF AZ MAX = 72	AZ SRT	AZ STOP	AZ INC	NO OF CONT MAX = 6	CONT VAL(1)	CONT VAL(2)	CONT VAL(3)	CONT VAL(4)	CONT VAL(5)
AZ(1)									AZ(10)
AZ(21)									AZ(.)

* NOTE:FOR TOP LOADED TOWER TWR NO = 50 TO 69 SECTIONALIZED 70 TO 89

FOR EDX PROGRAMS 5/22/89

FOR EDX PROGRAMS

5/22/89

PART 1

PART 2

FREQ	CNTR	STATE	CITY(27 SP)	CALL(7 SP)							
LAT	MIN	SEC	LONG	MIN	SEC						
NO OF TWR	PWR(kW)	RMS/km	Q	LOSS	NO OF AUG						
TWR NO(1)	FLD RAT(1)	PHASE(1)	SPAC(1)	ORIENT(1)	REF	* TWR TYPE	TWR HGT	HGT(A)	HGT(B)	HGT(C)	HGT(D)
TWR NO(2)											
TWR NO(3)											
TWR NO(4)											
TWR NO(5)											
TWR NO(6)											
TWR NO(7)											
TWR NO(8)											
TWR NO(9)											
TWR NO(10)											
TWR NO(11)											
TWR NO(12)											
AZ AUG(1)	SPAN(1)	RAD AUG(1)		AZ AUG(11)				AZ AUG(21)			
AZ AUG(2)				AZ AUG(12)				AZ AUG(22)			
AZ AUG(3)				AZ AUG(13)				AZ AUG(23)			
AZ AUG(4)				AZ AUG(14)				AZ AUG(24)			
AZ AUG(5)				AZ AUG(15)				AZ AUG(25)			
AZ AUG(6)				AZ AUG(16)				AZ AUG(26)			
AZ AUG(7)				AZ AUG(17)				AZ AUG(27)			
AZ AUG(8)				AZ AUG(18)				AZ AUG(28)			
AZ AUG(9)				AZ AUG(19)				AZ AUG(29)			
AZ AUG(10)				AZ AUG(20)				AZ AUG(30)			
NO OF AZ	AZ SRT	AZ STOP	AZ INC	NO OF EL	EL SRT	EL STOP	EL INC				
AZ(1)									AZ(10)		
AZ(11)									AZ(...)		
EL(1)									EL(10)		
EL(11)									EL(...)		

*- 0 NORMAL TOWER 1 TOP LOADING 2 SECTIONALIZED

CITY _____ DATE _____ PAGE _____

[illegible]

CITY _____ DATE _____ PAGE _____

[illegible]

CITY _____ DATE _____ PAGE _____

[illegible]

[illegible]

CITY _____ DATE _____ PAGE _____

[illegible]

COHEN, DIPPELL AND EVERIST, P. C.

CALL: _____

DATE: _____

LOCATION: _____

Names Inspection Time AM	Remarks
Sales promotion map	
Copy of transmitter log	
Studio	
Production	
Control	
News Room	
Satellite dish	
Remote vehicles	
Noise	
Airconditioning	
AC wiring	
Type of phone system	
No. of offices	
Parking	
Own or lease building	
Type building	
Remote control equipment	
STL/line	
Hot Stand By	
Outages/Reason	
Transmitter site	
Type transmitter	
Aux	
Aux power	

COHEN, DIPPELL AND EVERIST, P. C.

Names Inspection Time AM	Remarks
Fenced	
Tower height	
Processing	
AC wiring	
Audio	
Processing	
Stereo	
Monitoring Equip	
Aux	
Tower Rentals	
PCB	
Asbestos	
Aircondition/ventilation	
Dummyload	
Transmission line	
Receiver	
Car radio	
Comparison to other stations	
Voltage regulation	
Sales promotion map	
Copy of transmitter log	
Studio	
Production	

COHEN, DIPPELL AND EVERIST, P. C.

Names Inspection Time AM	Remarks
Control	
Method for records	
News Room	
Satellite dish	
Remote vehicles	
Noise	
Airconditioning	
AC wiring	
Type of phone system	
Posted permits	
No. of offices	
Parking	
Own or lease building	
Type building	
Bathrooms	
Kitchen/Lounge	
Remote control equipment	
STL	
Hot Stand By	
Outages/Reason	
Transmitter site	
Type transmitter	
Aux	

COHEN, DIPPELL AND EVERIST, P. C.

Names Inspection Time AM	Remarks
Local water	
Local sewer	
Fire alarm	
Security alarm	
Fire extinguishers	
Transmitter building	
Security	
Fire	
Drainage	
Guywire location	

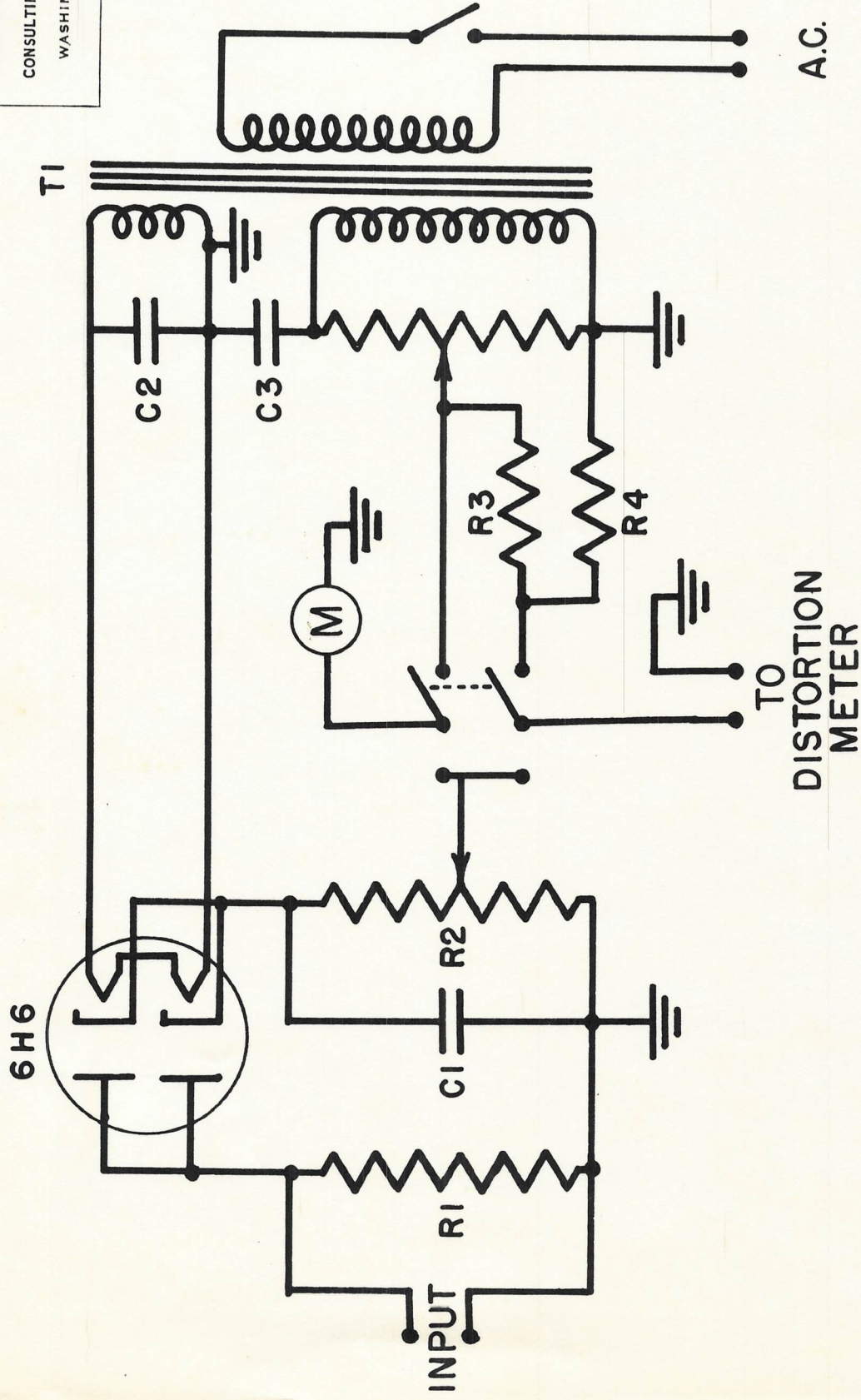
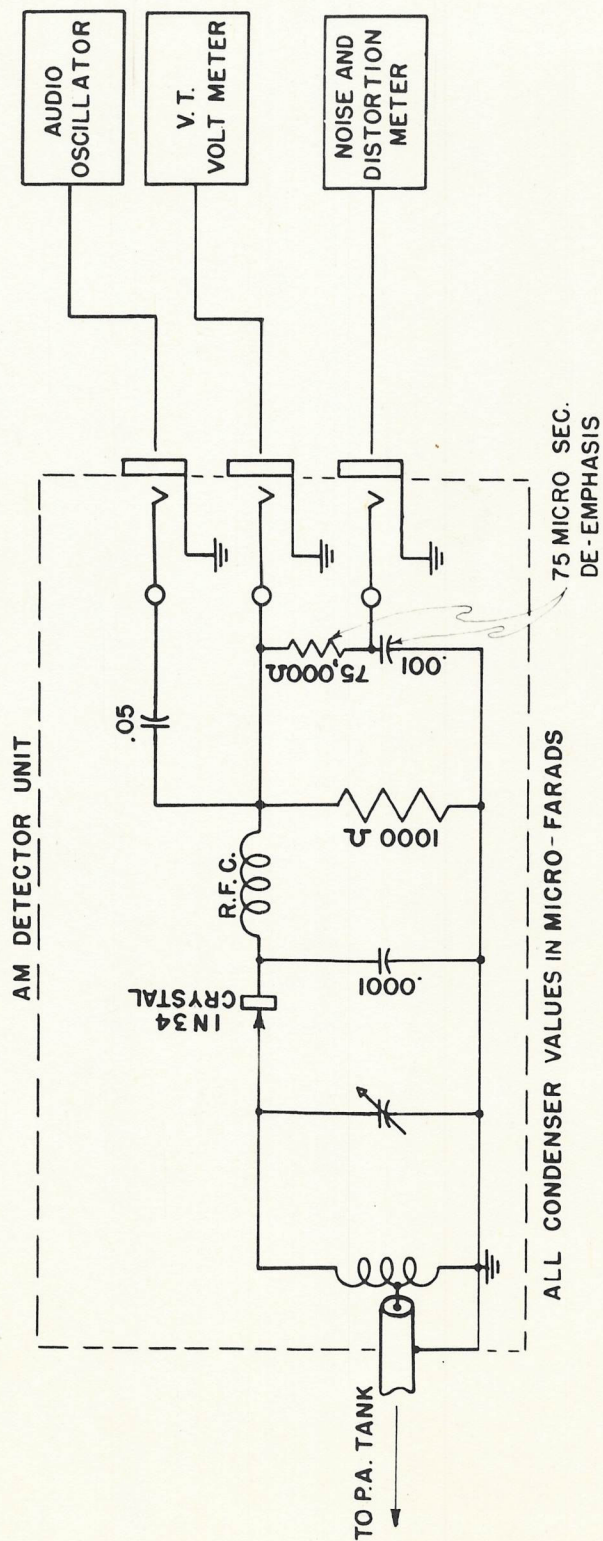


DIAGRAM OF DIODE RECTIFIER USED IN AM NOISE MEASUREMENTS

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CIRCUIT DIAGRAM OF EQUIPMENT
USED IN MEASURING AM NOISE LEVEL

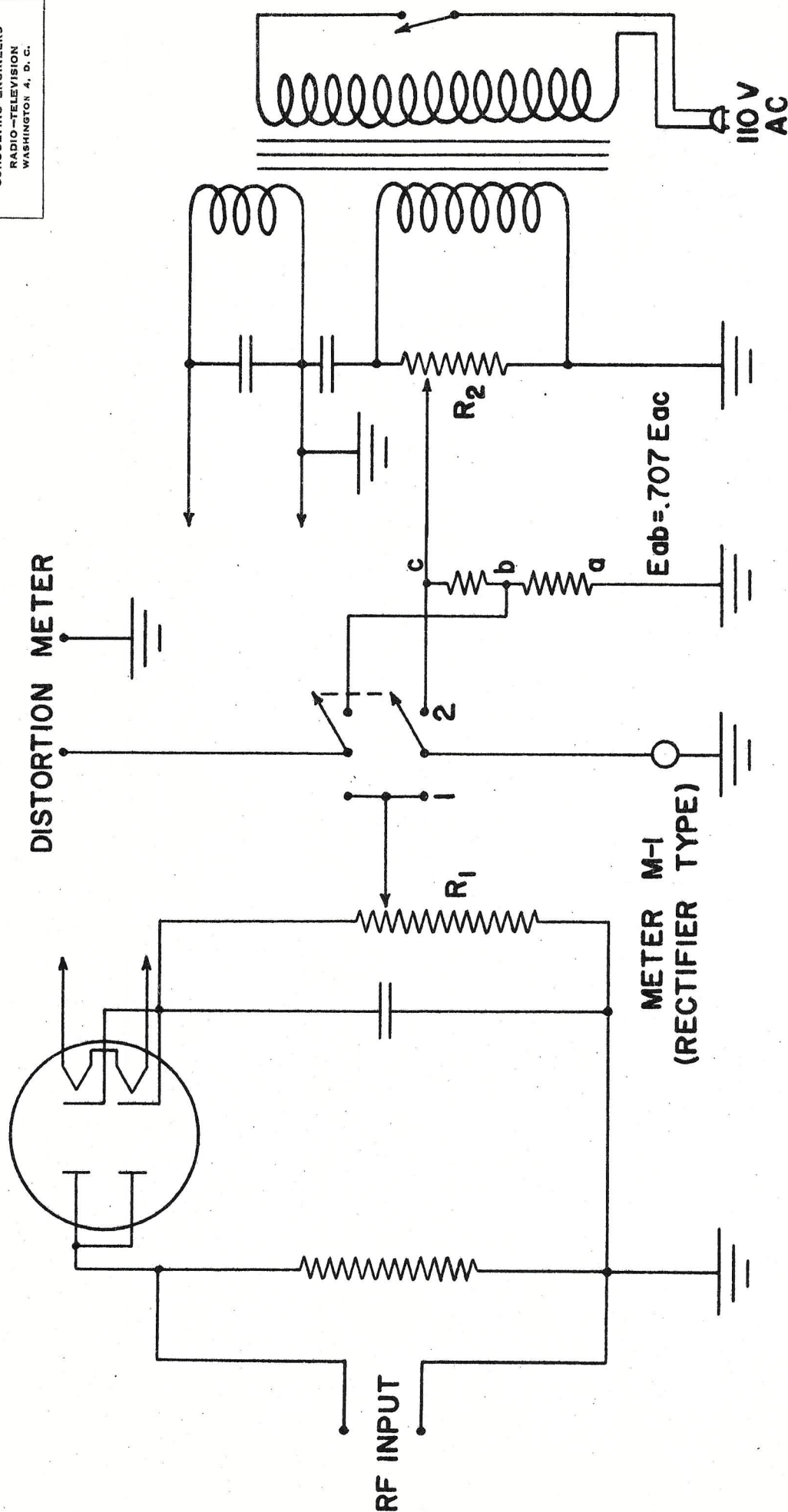


FIGURE 2

DIAGRAM OF DIODE CIRCUIT
USED IN MEASURING AM
NOISE LEVEL

TEST PROCEDURE

1. SET SWITCH TO POSITION 1. ADJUST R_1 FOR ARBITRARY CENTER SCALE METER READING ON M-1.
2. SET SWITCH TO POSITION 2. ADJUST R_2 FOR SAME METER READING AS POSITION 1. SET DISTORTION METER FOR ZERO DB REFERENCE LEVEL.
3. RETURN TO POSITION 1. READ AM NOISE LEVEL ON DISTORTION METER.

BEARINGS AND DISTANCE
AGETON METHOD

(1)
(2)

**RECIP-
ROCAL
BEARING**

LO.	0	A	A
LO.	0	B+	A
DIFFERENCE	0	A	A
LAT ₂	0	B+	A
K	0	A	B
LAT ₁	0	B-	A
DIFFERENCE	0	A	A
D°	0	B+	B
69.09 D°	0	A-	A-
BEARING FROM (1)	0	A	A
BEARING FROM (2)	0	A	A

