

AD-A020 701

ASSEMBLY AREA TROUBLE SHOOTING MANUAL -- MISSILE
GUIDANCE SET AN/DPW-11. GUIDED MISSILE TEST SET AN/DMS-
12. GUIDED MISSILE ELECTRICAL TEST SET M22. (NIKE-
AJAX ANTI-AIRCRAFT GUIDED MISSILE SYSTEM)

Human Resources Research Organization

Prepared for:

Office, Chief of Research and Development
(Army)

March 1962

DISTRIBUTED BY:

NTIS

National Technical Information Service
U. S. DEPARTMENT OF COMMERCE

**Best
Available
Copy**

REPORT DOCUMENTATION PAGE		HEAD INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. REPORTING CATALOG NUMBER
4. TITLE (and Subtitle) MISSILE GUIDANCE SET AN/DPW-11--Guided Missile Test Set AN/DSM-12; Guided Missile Electrical Test Set M22 (NIKE-AJAX Antiaircraft Guided Missile System) [Experimental Manual]		5. TYPE OF REPORT & PERIOD COVERED Research Product
7. AUTHOR(S) HumRRO Western Division		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Human Resources Research Organization (HumRRO) 300 North Washington Street Alexandria, Virginia 22314		8. CONTRACT OR GRANT NUMBER(S) DA 44-188-ARO-2
11. CONTROLLING OFFICE NAME AND ADDRESS Office of the Chief of Research and Development Department of the Army Washington, D.C. 20310		10. PROGRAM ELEMENT PROJECT TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE March 1962
		13. NUMBER OF PAGES 188
		15. SECURITY CLASS. (of this report) Unclassified
		16. DECLASSIFICATION/DOWNGRADING SCHEDULE
18. DISTRIBUTION STATEMENT (of this Report) Cleared for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
19. SUPPLEMENTARY NOTES Research performed by HumRRO Division No. 5, El Paso, Texas (now HumRRO Western Division, El Paso Office) under Work Unit MAINTRAIN, Maintenance Proficiency and Its Relation to Training Procedures for Guided Missile Personnel.		
21. KEY WORDS (Continue on reverse side if necessary and identify by block number) antiaircraft guided missile system experimental manual guided missiles		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This experimental manual presents illustrations, troubleshooting instructions, and schematic diagrams for the NIKE-AJAX Antiaircraft Guided Missile System.		

This document has been approved
for public release and sale; its
distribution is unlimited.

Reproduced by
**NATIONAL TECHNICAL
INFORMATION SERVICE**
U S Department of Commerce
Springfield VA 22151

DDC
REF ID: A60500
FEB 10 1976
NATIONAL TECHNICAL
INFORMATION SERVICE

CONTENTS

FIRST AID INSTRUCTIONS

B

ILLUSTRATIONS

Index To Illustrations

TROUBLESHOOTING INSTRUCTION

Index To Troubleshooting Instructions

SCHEMATIC DIAGRAMS

Index To Schematic Diagrams

ABBREVIATIONS

**NOTE: Pages 6 thru 86, pages 145 thru 196,
pages 198-199, 328 are blank.**

**COLOR ILLUSTRATIONS REPRODUCED
IN BLACK AND WHITE**

This document has been approved
for public release and sale; its
distribution is unlimited.

①

CONTENTS

Back of this page

1-5

1

87-144

87

197-327

197

329

DDC
RECEIVED
FEB 18 1976
REGULATED
C

GDS
26 March 1975
S. Lynch-Huels

INSTRUCTION

ing Instructions

Diagrams

6 thru 86, pages 145 thru 196,
198-199, 328 are blank.

This document has been approved
for public release and sale; its
distribution is unlimited.

✓ CLASSIFIED BY 20251 DA44-188-PTO-2
CLASSIFICATION 1972
EXPIRES 2 YEAR
DECLASSIFIED ON DECEMBER 31, 1966
A 23

ARTIFICIAL RESPIRATION

I. GENERAL

a. Rescue. In case of electric shock, shut off the high voltage at once and ground the circuits. If the high voltage cannot be turned off without delay, free the victim from contact with the live conductor as promptly as possible. Avoid direct contact with either the live conductor or the victim's body. Use a dry board, dry clothing, or other nonconductor to free the victim. An axe with a dry wooden handle may be used to cut the high-voltage wire. Use extreme caution to avoid the resulting electric flash.

b. Symptoms.

- (1) Breathing stops abruptly in electric shock if the current passes through the breathing center at the base of the brain. If the shock has not been too severe, the breath center recovers after a while and normal breathing is resumed, provided that a sufficient supply of air has been furnished meanwhile by artificial respiration.
- (2) The victim is usually very white or blue. The pulse is very weak or entirely absent and unconsciousness is complete. Burns are usually present. The victim's body may become rigid or stiff in a very few minutes. This condition is due to the action of electricity and is not to be considered rigor mortis. Artificial respiration must still be given, as several such cases are reported to have recovered. The ordinary and general tests for death should never be accepted.

II. TREATMENT

Start artificial respiration immediately. At the same time send for a medical officer, if assistance is available. Do not leave the victim unattended. Perform artificial respiration at the scene of the accident, unless the victim's or operator's life is endangered from such action. *In this case only*, remove the victim to another location, but no farther than is necessary for safety. If the new location is more than a few feet away, artificial respiration should be given while the victim is being moved. If the method of transportation prohibits the use of the Holger Nielson method, other methods of resuscitation may be used. Pressure may be exerted on the front of the victim's diaphragm, or the direct mouth-to-mouth method may be used. Artificial respiration, once started, must be continued without loss of rhythm. The standard technique (Holger Nielson) for executing the back-pressure, arm-lift method of artificial respiration is described here.

a. Position of Victim (A). Place the victim in the face down, prone position. Bend his elbows and place the hands one upon the other. Turn his face to one side, placing his cheek upon his hands.

b. Position of the Operator's Hands and Legs (B). Facing the head of the victim, kneel on either your right or left knee. Place this knee at the side of the victim's head close to his forearm. Place your other foot near the victim's other elbow.

Note. Kneel on both your knees if you find it more comfortable, with one knee on each side of the victim's head.

Place your hands upon the flat of the victim's back in such a way that the heels of your hands lie just below an imaginary line running between the victim's armpits. With the tips of your thumbs just touching, spread the fingers downward and outward.

c. Compression Phase (C). Rock forward until your arms are approximately vertical and allow the weight of the upper part of your body to exert slow, steady, even pressure downward upon the hands. This forces air out of the lungs. Your elbows should be kept straight and the pressure exerted almost directly downward on the back.

d. Position for Expansion Phase (D). Release the pressure, avoiding a final thrust, and commence to rock slowly backward. Place your hands upon the victim's arms just above his elbows.

e. Expansion Phase (E). Draw the victim's arms upward and toward you. Apply just enough lift to feel resistance and tension at the victim's shoulders. Do not bend your elbows, and as you rock backward the victim's arms will be drawn toward you. Then drop the arms gently to the ground. This completes the full cycle. The arm lift expands the chest by pulling on the chest muscles, arching the back, and relieving the weight on the chest.

Note. The cycle should be repeated 12 times per minute at a steady, uniform rate. The compression and expansion phases should occupy about equal times; the release periods being of minimum duration.

III. ADDITIONAL RELATED DIRECTION

It is all important that artificial respiration, when needed, be started quickly. There should be a slight inclination of the body in such a way that fluid drains better from the respiratory passage. The head of the victim should be extended, not flexed forward, and the chin should not sag lest obstruction of the respiratory passages occur. A check should be made to ascertain that the tongue or foreign objects are not obstructing the passages. These aspects can be cared for when placing the victim into position or shortly thereafter, between cycles. A smooth rhythm in performing artificial respiration is desirable, but split-second timing is not essential. Shock should receive adequate attention, and the victim should remain recumbent after resuscitation until seen by a physician or until recovery seems assured.



First Aid for Electric Shock



A—POSITION OF VICTIM



B—POSITION OF OPERATOR'S HANDS AND LEGS



C—COMPRESSION PHASE



D—POSITION FOR
EXPANSION PHASE

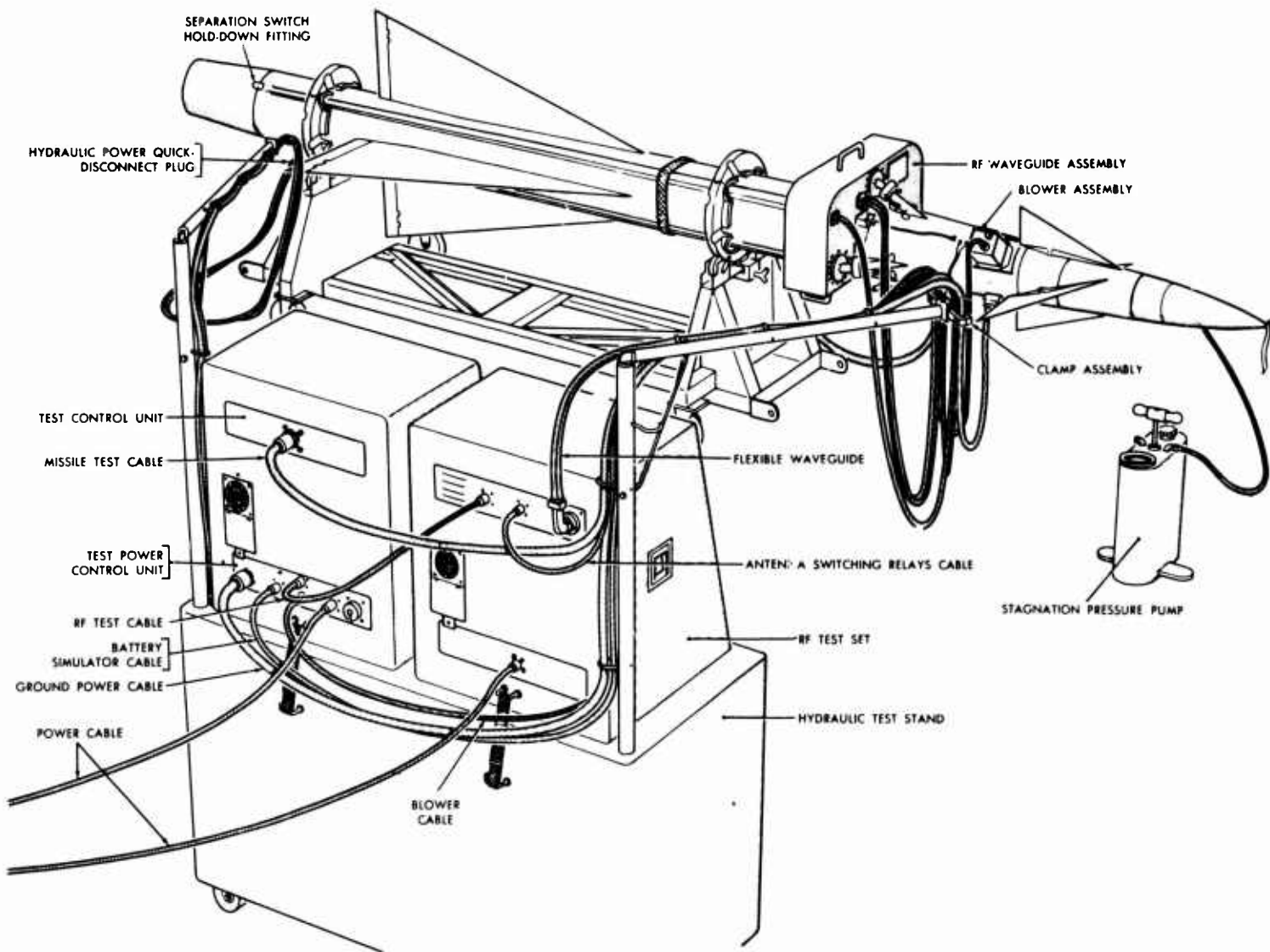


E—EXPANSION PHASE

RA PD 196667

~~CONFIDENTIAL~~

UNCLASSIFIED

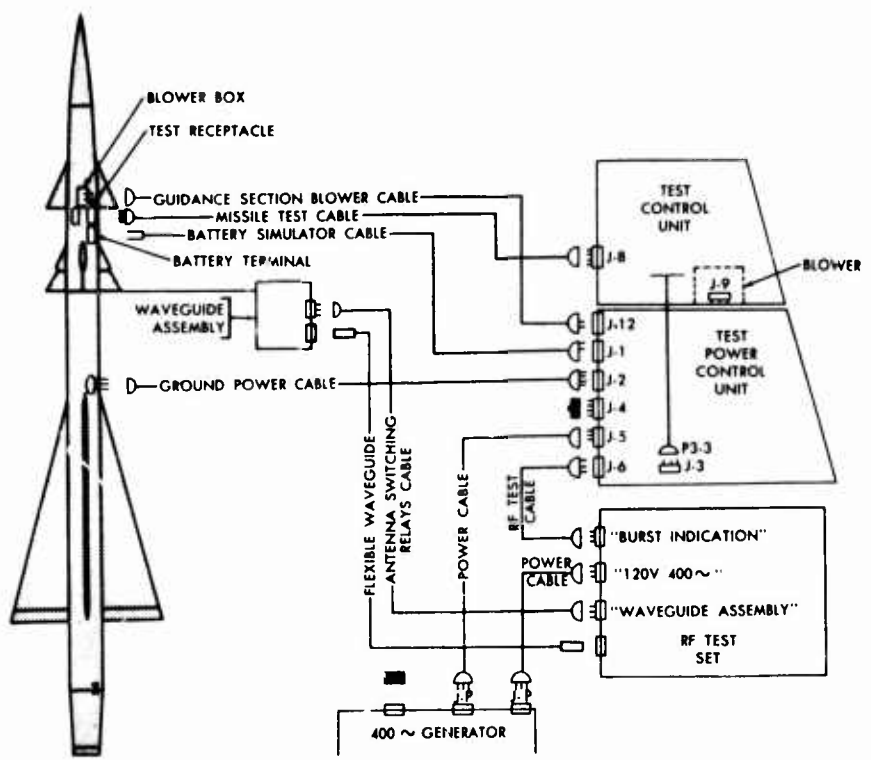


MISSILE ELECTRICAL TEST EQUIPMENT, ASSEMBLY AREA

A

~~CONFIDENTIAL~~

CONFIDENTIAL

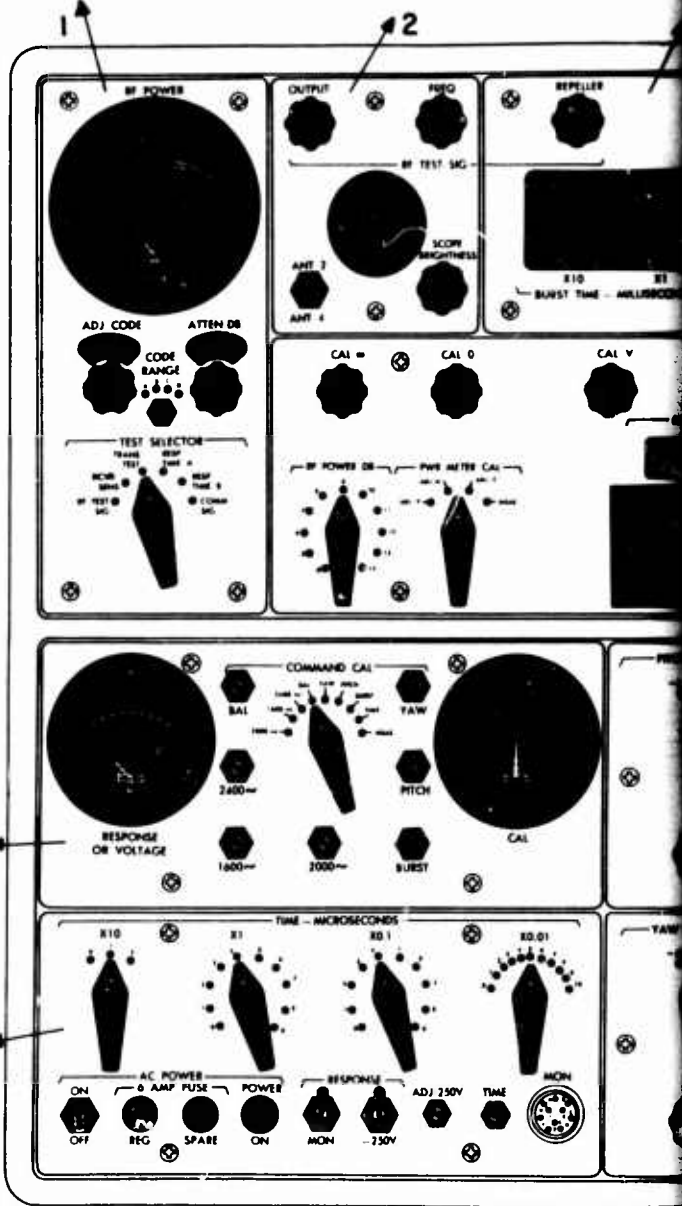


MISSILE TEST EQUIPMENT CABLING DIAGRAM,
COMPLETE MISSILE CHECKOUT

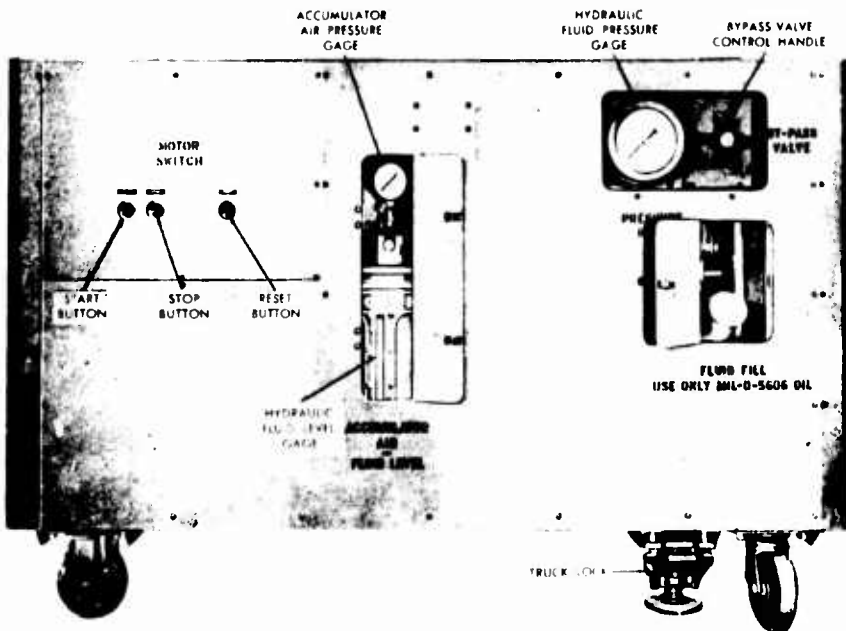
CONFIDENTIAL

UNCLASSIFIED

~~CONFIDENTIAL~~



- | | |
|---------------------------|------------------|
| 1. PULSER | 5. COMMAND MO |
| 2. OSCILLOSCOPE | 6. MICROSECON |
| 3. BURST TIMER | 7. PITCH OSCILLA |
| 4. RF POWER METER CURCUIT | 8. YAW OSCILLAT |

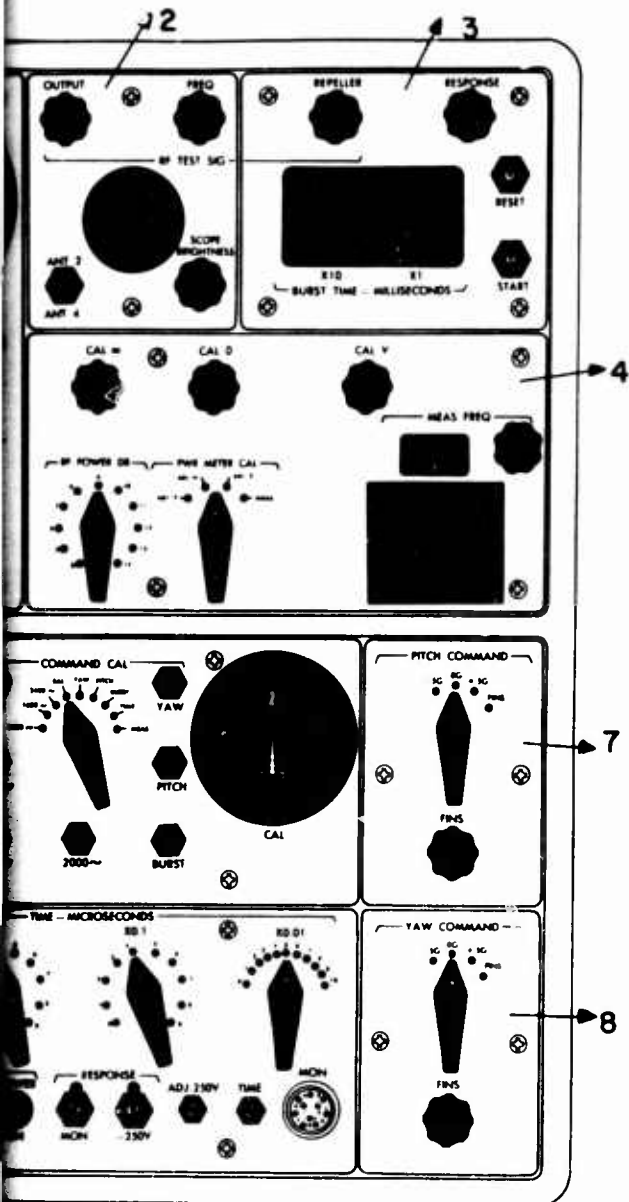


HYDRAULIC TEST STAND

MISSILE R.F. TEST SET PANEL FROM

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

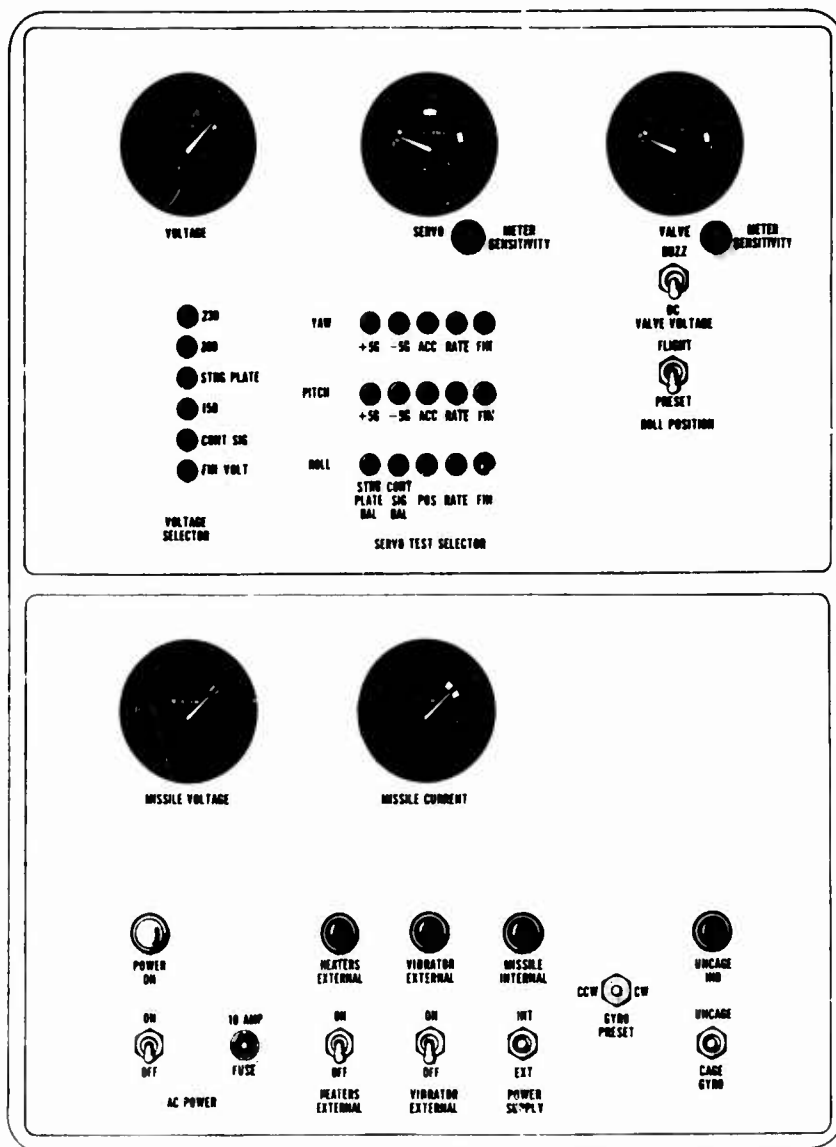


- 5. COMMAND MODULATOR
- 6. MICROSECOND OSCILLATOR
- 7. PITCH OSCILLATOR
- 8. YAW OSCILLATOR

ER CURCUIT

TEST SET PANEL FRONT

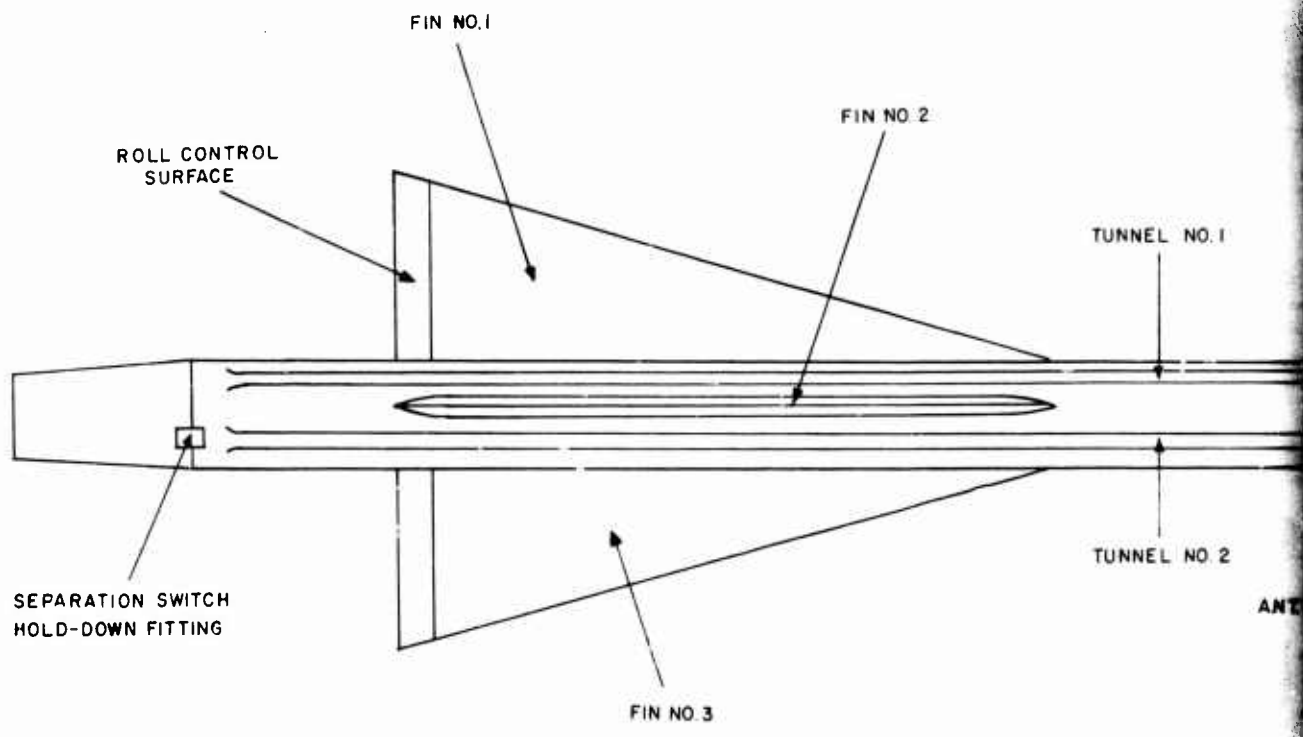
~~CONFIDENTIAL~~



TCU AND TPCU PANEL FRONT

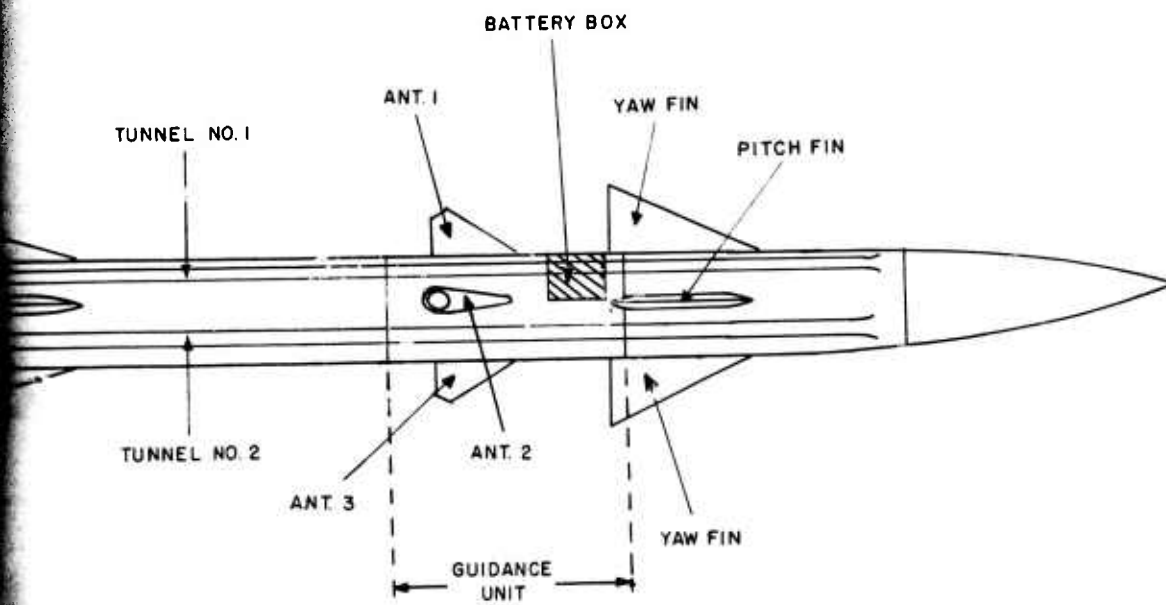
~~CONFIDENTIAL~~

UNCLASSIFIED

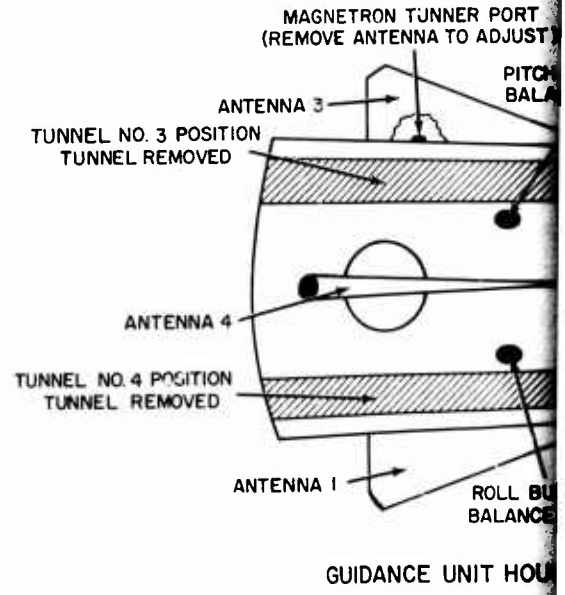
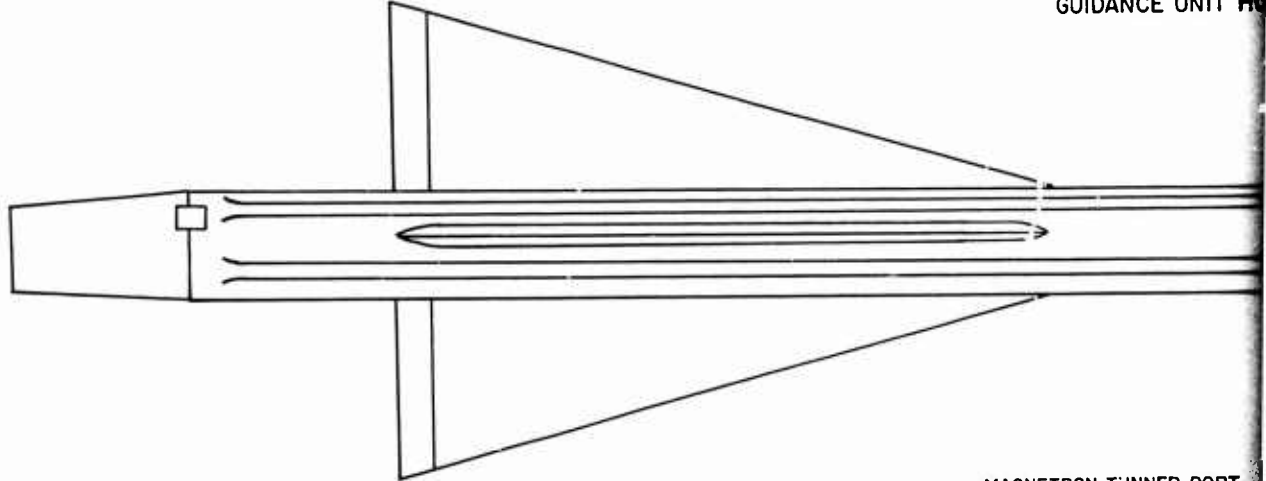
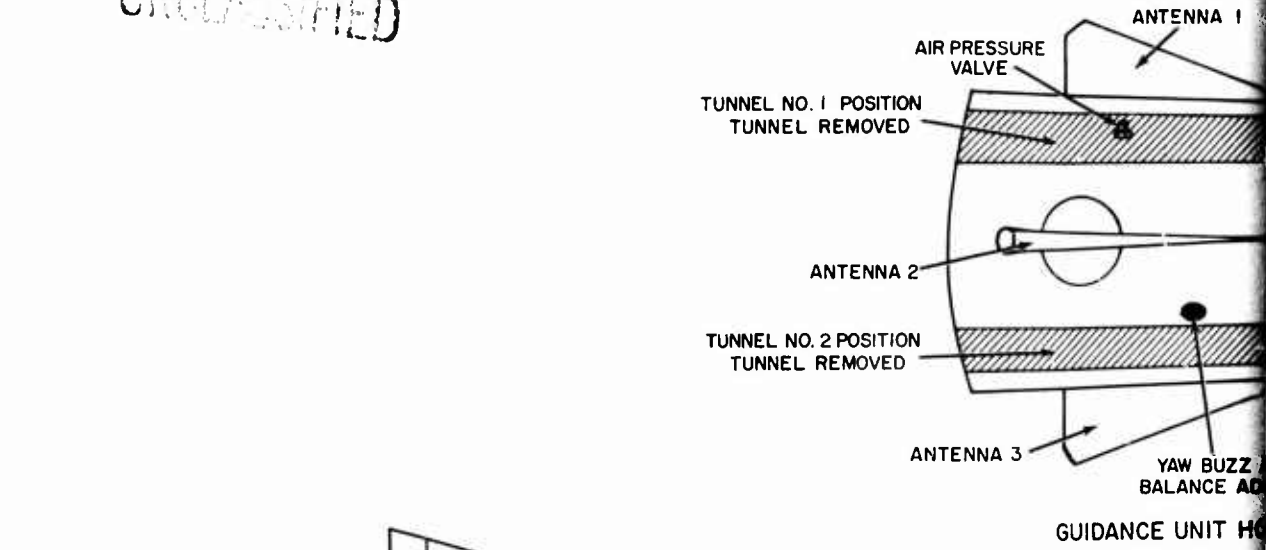


MISSILE LOCATION DIAGRAM

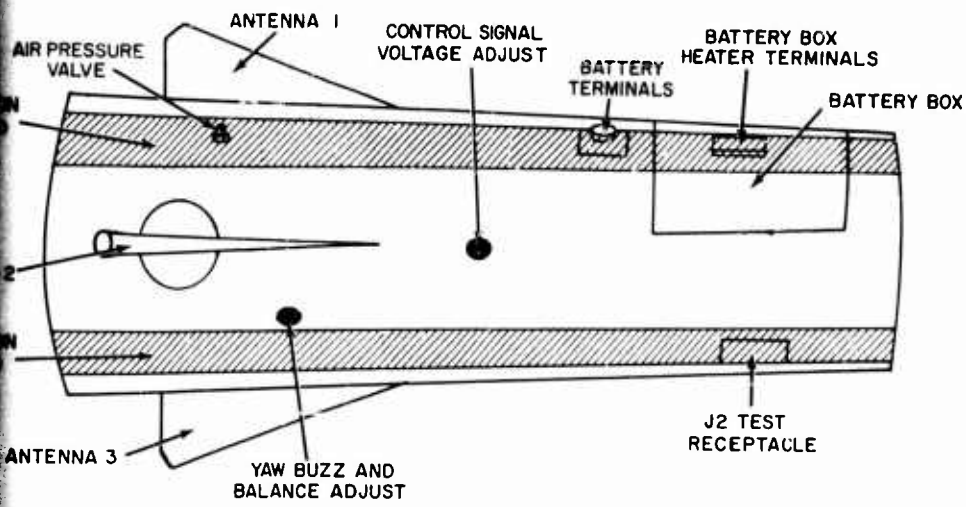
~~CONFIDENTIAL~~



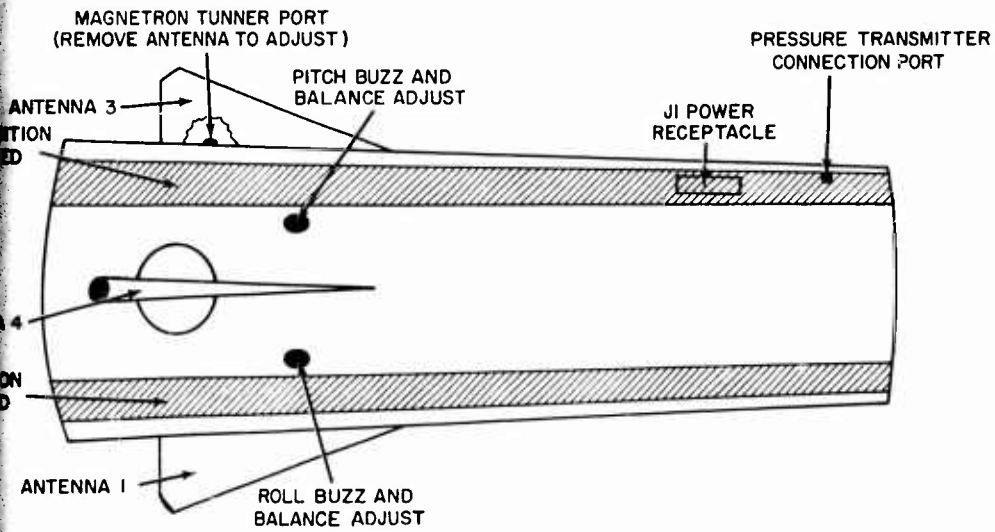
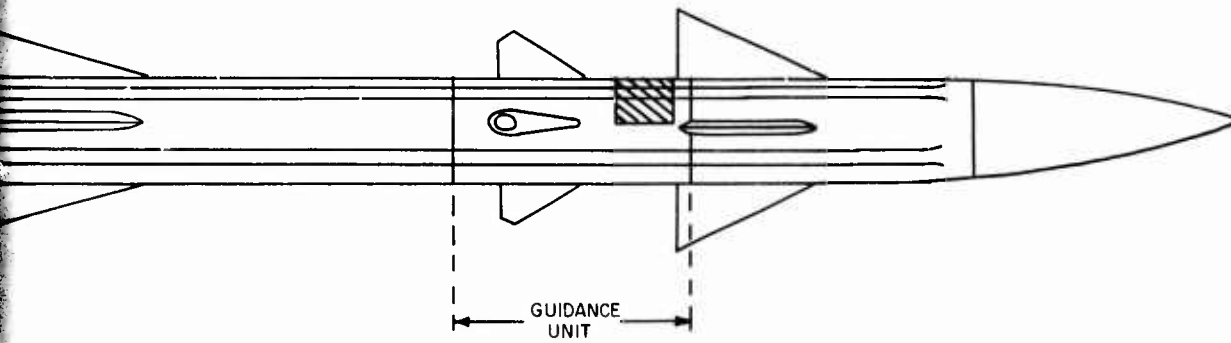
UNCLASSIFIED



A



GUIDANCE UNIT HOUSING, TOP VIEW



GUIDANCE UNIT HOUSING, BOTTOM VIEW

GUIDANCE UNIT LOCATION DIAGRAM

~~CONFIDENTIAL~~

B

INDEX TO TROUBLESHOOTING INSTR

RF TEST SET

	Page	TPCU
Indicators		Indic
Lights		
POWER ON	Step 1 88	
Scopes		
Oscilloscope		
Brightness	Step 3-7 88	
Vertical	Step 8-13 88	
Horizontal	Step 14-25 88 89	
Meters		
CAL	Step 26-36 90	
RF POWER	Step 37-48 92	
RESPONSE OR VOLTAGE	Step 55- 60 64 96	
Miscellaneous		
Blower	Step 2 88	Relay
BURST TIME Count Tubes	Step 49-54 96 95	
Chassis		
Refer to INDEX TO SCHEMATIC DIAGRAMS		
Relays		
K-1	Fig. 37 121	
K-2	Fig. 37 121	
Motors		TCU
Blower	Fig. 2 101	Meter
Miscellaneous		
Attenuators		
AT 1	Fig. 41 122	
AT 2	Fig. 41 122	
AT 3	Fig. 40 122	

ANTENNA COUPLER

Attenuators		
AT 1	Fig. 42 122 123	
AT 2	Fig. 43 123	

MISSILE

Chassis		
Refer to INDEX TO SCHEMATIC DIAGRAMS		
Relays		
Transfer	Fig. 61 131	
Preset	Fig. 56 128	
Cage	Fig. 57-60 129	
Uncage	Fig. 57-60 129	
Motors		
Blower	Fig. 51 126	
YAW RATE GYRO	Fig. 53 & 72 127 & 134	
PITCH RATE GYRO	Fig. 53 & 75 127 & 136	
ROLL RATE GYRO	Fig. 53 & 82 127 & 141	
ROLL AMOUNT GYRO PRESET	Fig. 80-81 141 139	
ROLL AMOUNT GYRO	Fig. 53 127	
Miscellaneous		
Fins	Step 65 100	

A

HOOTING INSTRUCTIONS

TPCU

		Page
Indicators		
Lights		
POWER ON	Fig. 47	125
HEATERS, EXTERNAL	Fig. 48	125
VIBRATOR EXTERNAL	Fig. 49	125
MISSILE INTERNAL	Fig. 50	125
UNCAGE IND	Fig. 55	128
Meters		
MISSILE VOLTAGE	Fig. 52	126
MISSILE CURRENT	Fig. 53	127
Miscellaneous		
Blower	Fig. 51	126
Delay Timer	Fig. 64	131
Relays		
Heaters	Fig. 63	131
Battery Power	Fig. 62	131
Motors		
Blower	Fig. 51	126 126
Delay Timer	Fig. 64	131

TCU

Meters		
VOLTAGE		
230	Fig. 65	132
300	Fig. 66	132
STRG PLATE	Fig. 67	132
150	Fig. 68	133
CCNT SIG	Fig. 69	133
FIN VOLT	Fig. 70	133
SERVO		
YAW +5G	Fig. 73	135
-5G	Fig. 73	135
ACC	Fig. 71	134
RATE	Fig. 72	134
FIN	Fig. 73	135
PITCH +5G	Fig. 76	136
-5G	Fig. 76	136
ACC	Fig. 74	135
RATE	Fig. 75	136
FIN	Fig. 76	136
ROLL STRG PLATE BAL	Fig. 77	137
CONT SIG BAL	Fig. 78	137
POS	Fig. 79-81	138
RATE	Fig. 82	141
FIN	Fig. 83	141
VALVE	Fig. 84-86	141 142

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
1. POWER ON light		Blower	Running Not running	
2. Blower		AC POWER ON LIGHT	Glow Out	
3. SCOPE, Brightness CCS: Any except BAL or MEAS				
4. SCOPE, Brightness CCS: BAL	Scope should be blank (grounded thru CCS sw)			
5. SCOPE, Brightness CCS: MEAS TSS: RF TEST SIG REC SENS TRANS TEST RESP TIME A RESP TIME B				
6. SCOPE, Brightness CCS: MEAS TSS: COMM SIG After RESET sw depressed	Same as CCS: MEAS and TSS: RF TEST SIG			
7. SCOPE, Brightness CCS: MEAS TSS: COMM SIG After START sw depressed	Scope should be blank (grounded thru K2 relay in Command Module)			
8. SCOPE, Vertical CCS: 2000 ~ 1600 ~ 2400 ~		CCS: TIME Adjust TIME screw- driver adjust	Approx 1/2 inch vertical deflection Insufficient vertical deflection	
9. SCOPE, Vertical CCS: BAL	Scope should be blank (grounded thru CCS sw)			
10. SCOPE, Vertical CCS: YAW PITCH BURST		CCS: TIME Adjust TIME screw- driver adjust	App ver Insufficient vertical deflection	

INDICATIONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE (FIG)
					101 (1)
ing					101 (1)
					101 (2)
					101 (2)
					101 (3)
					101 (3)
K2 relay in Command Modulator)					
1/2 inch l deflection					101 (4)
icient vertical tion					101 (4)
CCS sw)					
					101 (5)
icient l deflection					101 (5)

B

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
11. SCOPE, Vertical CCS: TIME		CCS: 2000 ~ Adjust 2000 ~ screwdriver adjust	Approx 1/2 inch vertical deflection Insufficient vertical deflection	
12. SCOPE, Vertical CCS: MEAS after RESET sw depressed		No signal inputs are supplied to scope in CCS: MEAS		
13. SCOPE, Vertical CCS: MEAS after START sw depressed		Scope should be blank (grounded thru K2 relay in command modulator)		
14. SCOPE, Horizontal CCS: 2000 ~ 1600 ~ 2400 ~		CCS: YAW, adjust YAW screwdriver adjust	Standing pattern On Scope No standing pattern	
15. SCOPE, Horizontal CCS: BAL		SCOPE should be blank (grounded thru CCS sw)		
16. SCOPE, Horizontal CCS: YAW TSS: RF TEST SIG REC SENS TRANS TEST RESP TIME A RESP TIME B		CCS: PITCH adjust PITCH screwdriver adjust	Standing Pattern on scope No standing pattern	CCS: 2000 ~ adjust 2000 ~ screwdriver adjust
17. SCOPE, Horizontal CCS: YAW TSS: COMM SIG after RESET sw depressed		Same as CCS: YAW and TSS: RF TEST SIG		
18. SCOPE, Horizontal CCS: YAW TSS: COMM SIG after START sw depressed		CCS: 2000 ~, adjust 2000 ~ screwdriver adjust	Standing pattern on scope No standing pattern on scope	CCS: PITCH depress RESET adjust PITCH screwdriver

A

	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE (FIG)
tion					101 (6)
tion					101 (6)
CCS: MEAS					
ay in command modulator)					
m					101 (7)
tern					101 (7)
					102 (8)
tern	CCS: 2000 ~ adjust 2000 ~ screwdriver adjust	Standing Pattern on scope			102 (8)
		No standing pattern on scope			102 (8)
tern on	CCS: PITCH depress RESET sw adjust PITCH screwdriver adjust	Standing pattern on scope			102 (9)
		No standing pattern on scope			102 (9)
tern					102 (9)

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
19. SCOPE, Horizontal CCS: PITCH TSS: RF TEST SIG REC SENS TRANS TEST RESP TIME A RESP TIME B		CCS: YAW adjust YAW screwdriver adjust	Standing pattern on scope	
			No standing pattern on scope	CCS: 2000 adjust 2000 screwdriver
20. SCOPE, Horizontal CCS: PITCH TSS: COMM SIG After RESET sw depressed	Same as CCS: PITCH and TSS: RF TEST SIG			
21. SCOPE, Horizontal CCS: PITCH TSS: COMM SIG after START sw depressed		CCS: 2000 ~, adjust 2000 ~ screwdriver adjust	Standing pattern on scope	CCS: PITCH depress R adjust PI screwdriver
			No standing pattern on scope	
22. SCOPE, Horizontal CCS: BURST		CCS: 2000 ~ adjust 2000 ~ screwdriver adjust	Standing pattern on scope	CCS: YAW YAW screw adjust, d RESET sw
			No standing pattern on scope	
23. SCOPE, Horizontal CCS: TIME		CCS: YAW, adjust YAW screwdriver adjust	Standing pattern on scope	
			No standing pattern on scope	
24. SCOPE, Horizontal CCS: MEAS after RESET sw depressed	No signal inputs are supplied to scope in CCS: MEAS			
25. SCOPE, Horizontal CCS: MEAS after START sw depressed	Scope should be blank (grounded thru K2 relay in Command Modulator)			
26. CAL meter CCS: 2000 ~ 1600 ~ 2400 ~ BAL				

A

IONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE (FIG)
attern on					102 (10)
g pattern	CCS: 2000 ~ adjust 2000 ~ screwdriver adjust	Standing pattern on scope No standing pattern on scope			102 (10) 102 (10)
attern on	CCS: PITCH depress RESET sw adjust PITCH screwdriver adjust	Standing pattern on scope No standing pattern on scope			102 (9) 102 (9)
g pattern					102 (9)
attern on	CCS: YAW adjust YAW screwdriver adjust, depress RESET sw	Standing Pattern on scope No standing pattern on scope			102 (11) 102 (11)
pattern					102 (11)
attern					103 (12)
g pattern					103 (12)
CCS: MEAS					
lay in Command Modulator)					
					103 (13)

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
27. CAL meter CCS: YAW TSS: RF TEST SIG REC SENS TRANS TEST RESP TIME A RESP TIME B		Observe scope	Standing pattern on scope No standing pattern on scope	CCS: PITCH, adjust PITCH screwdriver adjust
28. CAL meter CCS: YAW TSS: COMM SIG after RESET sw depressed		Same as CCS: YAW and TSS: RF TEST SIG		
29. CAL meter CCS: YAW TSS: COMM SIG after START sw depressed		Depress RESET sw, adjust YAW screwdriver adjust	CAL meter reads 0 CAL meter does not read 0	
30. CAL meter CCS: PITCH TSS: RF TEST SIG REC SENS TRANS TEST RESP TIME A RESP TIME B		Observe scope, adjust PITCH screwdriver adjust	Standing pattern on scope No standing pattern on scope	CCS: YAW adjust YAW screwdriver adjust
31. CAL meter CCS: PITCH TSS: COMM SIG after RESET sw depressed		Same as CCS: PITCH and TSS: RF TEST SIG		
32. CAL meter CCS: PITCH TSS: COMM SIG after START sw depressed		Depress RESET sw, adjust PITCH screwdriver adjust	CAL meter reads 0 CAL meter does not read 0	
33. CAL meter CCS: BURST TSS: RF TEST SIG REC SENS TRANS TEST RESP TIME A RESP TIME B		CCS: PITCH, adjust PITCH screwdriver adjust	CAL meter reads 0 CAL meter does not read 0	

A

ONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE (FIG)
tern					103 (14)
pattern	CCS: PITCH, adjust PITCH screwdriver adjust	Standing pattern on scope			103 (14)
		No standing pattern on scope			103 (14)
ads 0 es					104 (15)
					104 (15)
tern					104 (16)
pattern	CCS: YAW adjust YAW screwdriver adjust	Standing pattern on scope			104 (16)
		No standing pattern on scope			104 (16)
ads 0 es					104 (15)
					104 (15)
ads 0 es					104 (17)
					104 (17)

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECK
34. CAL meter CCS: BURST TSS: COMM SIG after RESET sw depressed		Same as CCS: BURST and TSS: RF TEST SIG		
35. CAL meter CCS: BURST TSS: COMM SIG after START sw depressed		CCS: PITCH Depress RESET sw Adjust PITCH screw- driver adjust	CAL meter reads 0 CAL meter does not read 0	
36. CAL meter CCS: TIME MEAS				
37. RF POWER meter PMC: ADJ V				
38. RF POWER meter PMC: ADJ 0 ADJ ∞ TSS: RF TEST SIG		PMC: ADJ V	RF POWER meter reads V RF POWER meter does not read V	
39. RF POWER meter PMC: ADJ 0 ADJ ∞ TSS: REC SENS TRANS TEST RESP TIME A RESP TIME B COMM SIG		POWER meter readings uncertain (power measuring bridge is unbal		
40. RF POWER meter PMC: MEAS TSS: RF TEST SIG T/Ds: X1 NOT 4		PMC: ADJ 0	RF POWER meter reads 0 RF POWER meter does not read 0	

CONDITIONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE (FIG)
reads 0					104 (15)
does					104 (15)
					103 (13)
					121 (38)
meter					104 (18)
meter read V					104 (18)
measuring bridge is unbalanced)					
meter					105 (19)
meter read 0					105 (19)

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
41. RF POWER meter PMC: MEAS TSS: RF TEST SIG T/Ds: X1 at 4		TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3	RF POWER meter reads between 0 and 1 RF POWER meter does not read between 0 and 1	TSS: COMM SIG CCS: MEAS Operate RESET wait 3 seconds then operate START sw TSS: RF TEST SIG PMC: ADJ 0 PMC: ADJ ∞
42. RF POWER meter PMC: MEAS TSS: REC SENS			POWER meter reading uncertain (no inputs to power measuring bridge)	
43. RF POWER meter PMC: MEAS TSS: TRANS TEST		TSS: COMM SIG CCS: MEAS Operate RESET sw +5G and -5G push-buttons on TCU must NOT be depressed YAW COMMAND: +5G, turn to -5G, turn to 0G	Fins do not respond Leading edges of yaw fins move upward, downward, and then return to the center line	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3 PMC: MEAS TSS: RF TEST SIG T/Ds: 04.00 ATTEN-DB: 0
44. RF POWER meter PMC: MEAS TSS: RESP TIME A		PMC: MEAS TSS: RF TEST SIG T/Ds: 04.00 ATTEN-DB: 0	RF POWER meter reads 0 RF POWER meter does not read 0	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3

A

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
45. RF POWER meter PMC: MEAS TSS: RESP TIME B		TSS: RESP TIME A	RF POWER meter does not read near ∞ RF POWER meter reads at or near ∞	PMC: MEAS TSS: RF T/Ds: 0 ATTEN-D
46. RF POWER meter PMC: MEAS TSS: COMM SIG after START sw depressed		No reading on RF POWER meter (no ground to power measuring)		
47. RF POWER meter PMC: MEAS TSS: COMM SIG RESET sw depressed CCS: 2000 ~ 1600 ~ 2400 ~ BAL YAW PITCH BURST and CCS: TIME		TSS: TRANS TEST T/Ds: missile code + 1 usec adjust RESPONSE Knob	RESPONSE OR VOLTAGE meter reads 80 ± 20 RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: RF PMC: AD PMC: AD TSS: RE
48. RF POWER meter PMC: MEAS TSS: COMM SIG after RESET sw depressed CCS: MEAS		TSS: TRANS TEST T/Ds: missile code + 1 usec adjust RESPONSE Knob	RESPONSE OR VOLTAGE meter reads 80 ± 20 RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: RF PMC: AD PMC: AD TSS: RE

INDICATIONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE
RF POWER meter does not read near ∞					109 (23)
RF POWER meter reads at or near ∞	PMC: MEAS TSS: RF TEST SIG T/Ds: 04.00 ATTEN-DB: 0	RF POWER meter reads 0			109 (23)
		RF POWER meter does not read 0	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3	RF POWER meter reads between 0 and 1	109 (23)
				RF POWER meter does not read between 0 and 1	109 (23)
RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: RF TEST SIG PMC: ADJ 0 PMC: ADJ ∞	RF POWER meter reads 0			110 (24)
		RF POWER meter does not read 0			110 (24)
RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: RESP TIME A	RESPONSE OR VOLTAGE meter reads 80 ± 20			110 (24)
		RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3	RF POWER meter reads between 0 and 1	110 (24)
				RF POWER meter does not read between 0 and 1	110 (24)
RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: RF TEST SIG PMC: ADJ 0 PMC: ADJ ∞	RF POWER meter reads 0			111 (25)
		RF POWER meter does not read 0			111 (25)
RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: RESP TIME A	RESPONSE OR VOLTAGE meter reads 80 ± 20			111 (25)
		RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3	RF POWER meter reads between 0 and 1	111 (25)
				RF POWER meter does not read between 0 and 1	111 (25)

Reproduced from
best available copy.



EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
49. Count Tubes TSS: RF TEST SIG REC SENS TRANS TEST RESP TIME A RESP TIME B		No glow on count tubes (no anode voltage)		
50. Count Tubes TSS: COMM SIG after RESET sw depressed			Count tubes do not glow at 0 position Count tubes count	
51. Count Tubes TSS: COMM SIG after START sw depressed CCS: 2000 1600 2400 BAL		Glow does not move (no input to count tubes)		
52. Count Tubes TSS: COMM SIG after START sw depressed CCS: YAW PITCH BURST		Glow moves very rapidly (6KC input to count tubes from referen		
53. Count tubes TSS: COMM SIG after START sw depressed CCS: TIME	Count tubes do not count	TSS: REC SENS CCS: BURST Adjust SCOPE BRIGHTNESS Adjust BURST screwdriver adjust	Standing pattern on scope	TSS: TR PMC: ME ATTN-D T/Ds: M + 0.1 us Adjust Knob
	Count tubes stop too soon or too late		No standing pattern on scope	


A

INDICATIONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE (FIG)
voltage)					
tubes do not at 0 position					112 (26)
tubes count					112 (26)
at tubes)					
to count tubes from reference oscillator)					112 (27)
ding pattern scope	TSS: TRANS TEST PMC: MEAS ATTEN-DB: 30 T/Ds: Missile Code + 0.1 usec Adjust RESPONSE Knob	RESPONSE OR VOLTAGE meter indicates a response			113 (28)
		RESPONSE OR VOLTAGE meter does not indicate a response			113 (28)
anding pattern scope					113 (28)
					113 (28)

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
54. Count Tubes TSS: COMM SIG after START sw depressed CCS: MEAS	Count tubes do not count	TSS: REC SENS CCS: BURST Adjust SCOPE BRIGHTNESS Adjust BURST screwdriver adjust	Standing pattern on scope	TSS: TRANS TEST PMC: MEAS ATTEN-DB: 30 T/Ds: Missile C + 0.1 usec Adjust RESPONSE Knob
	Count tubes stop too soon or too late	CSS: MEAS operate RESET sw adjust RESPONSE Knob	No standing pattern on scope	
		TSS: RESP TIME A T/Ds: missile code + 1 usec adjust RESPONSE Knobs	RESPONSE OR VOLTAGE meter indicates a response	
			RESPONSE OR VOLTAGE meter does not indicate a response	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3
			RESPONSE OR VOLTAGE meter indicates a response	TSS: RESP TIME
			RESPONSE OR VOLTAGE meter does not indicate a response	
55. RESPONSE OR VOLTAGE meter RESPONSE/-250V: -250V				
56. RESPONSE OR VOLTAGE meter TSS: RF TEST SIG		RESPONSE meter inoperative (response indicator cut off by bias voltage)		

A

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
57. RESPONSE OR VOLTAGE meter TSS: REC SENS		TSS: RF TEST SIG T/Ds: 04.00 PMC: ADJ ∞ slowly adjust CAL ∞ Knob for maximum deflection towards left on RF POWER meter PMC: ADJ 0 adjust CAL 0 Knob PMC: MEAS ATTEN-DB: 0	RF POWER meter does not read 0	TSS: RF PMC: MEA T/Ds: 00 RF POWER
			RF POWER meter reads 0	TSS: TR PMC: MEA T/Ds: m + 1 usec
58. RESPONSE OR VOLTAGE meter TSS: TRANS TEST	RF POWER meter reads between 0 and 2	TSS: COMM SIG CCS: MEAS Operate RESET sw +5G and -5G push- buttons on TCU must NOT be depressed YAW COMMAND: +5G, turn to -5G, turn to 0G	Fins do not respond	TSS: RF PMC: MEA T/Ds: 00 RF POWER
	RF POWER meter does not read between 0 and 2		Leading edges of yaw fins move upward, downward, and then return to the center line	PMC: MEA TSS: RF T/Ds: 04 ATTEN-DB

INDICATIONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE
POWER meter not read 0	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3	RF POWER meter reads between 0 and 1	TSS: COMM SIG CCS: MEAS Operate RESET sw, wait 3 seconds and then operate START sw	Glow moves around count tubes and stops after 59 to 69 milliseconds	114 (30)
		RF POWER meter does not read between 0 and 1		Glow stops too soon or too late	114 (30)
POWER meter is 0	TSS: TRANS TEST PMC: MEAS T/Ds: missile code + 1 usec	RF POWER meter reads between 0 and 2			114 (30)
		RF POWER meter does not read between 0 and 2			114 (30)
					115 (31)
do not respond	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00 RF POWER DB: 3	RF POWER meter reads between 0 and 1			115 (31)
		RF POWER meter does not read between 0 and 1			115 (31)
ing edges of yaw move upward, ward, and then rn to the center	PMC: MEAS TSS: RF TEST SIG T/Ds: 04.00 ATTEN-DB: 0	RF POWER meter reads 0			115 (31)
		RF POWER meter does not read 0	TSS: COMM SIG CCS: TIME Depress START sw	Count tubes count	115 (31)
				Count tubes do not count	115 (31)
		Reproduced from best available copy. 			

ABNORMAL INDICATION	EQUIPMENT SETTINGS	CHECKS	INDICATIONS	CHECKS
59. RESPONSE OR VOLTAGE meter TSS: RESP TIME A		TSS: RF TEST SIG T/Ds: 04.00 PMC: ADJ slowly adjust CAL knob for maximum deflection towards left on RF POWER meter PMC: ADJ 0 adjust CAL 0 Knob ATTEN-DB: 0 PMC: MEAS	RF POWER meter reads 0 RF POWER meter does not read 0	TSS: TRANS TEST PMC: MEAS T/Ds: missile c + 1 usec TSS: COMM SIG CCS: MEAS Operate RESET +5G and -5G push buttons on TCU must NOT be depressed YAW COMMAND: +5 turn to -5G, turn to OG
60. RESPONSE OR VOLTAGE meter TSS: RESP TIME B	Incorrect delay time Weak or insufficient response	TSS: RESP TIME A	RESPONSE meter reads 80 ± 20 RESPONSE meter does not read 80 ± 20	TSS: COMM SIG CCS: MEAS Operate RESET +5G and -5G push buttons on TCU NOT be depressed YAW COMMAND: +5 turn to -5G, turn to OG Trouble shoot RESPONSE VOLTAGE TSS: R

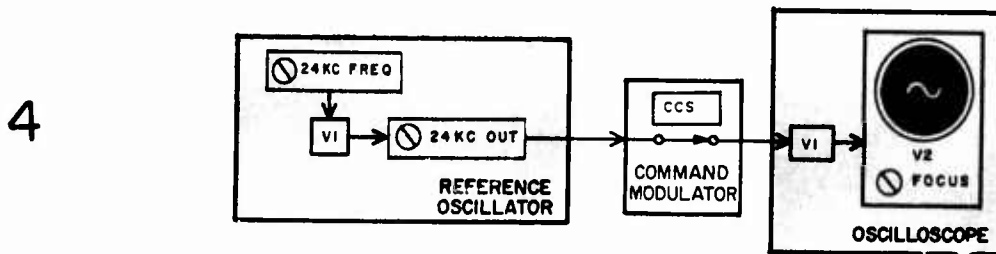
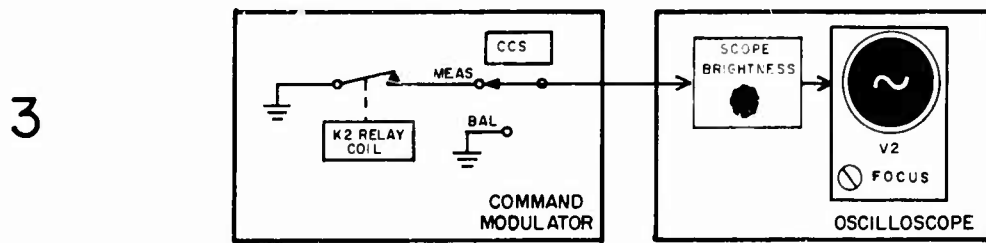
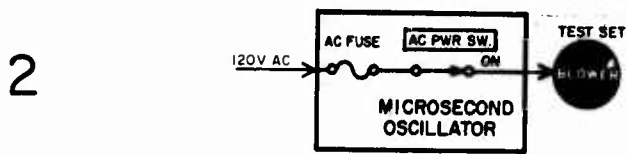
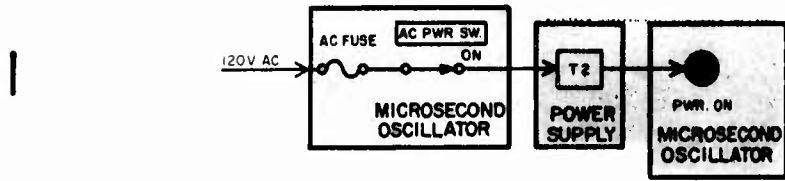
	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE (FIG)
	TSS: TRANS TEST PMC: MEAS T/Ds: missile code + 1 usec	RF POWER meter reads between 0 and 2			116 (32)
		RF POWER meter does not read between 0 and 2			116 (32)
	TSS: COMM SIG CCS: MEAS Operate RESET sw +5G and -5G push- buttons on TCU must NOT be depressed YAW COMMAND: +5G, turn to -5G, turn to 0G	Fins do not respond			116 (32)
		Leading edges of yaw fins move upward, downward, and then re- turn to the center line	TSS: COMM SIG CCS: MEAS Operate RESET sw, wait 3 seconds and then operate START sw	Glow moves around count tubes and stops after 59 to 69 milliseconds Glow does not stop	116 (32) 116 (32)
					117 (33)
	TSS: COMM SIG CCS: MEAS Operate RESET sw +5G and -5G push- buttons on TCU must NOT be depressed YAW COMMAND: +5G, turn to -5G, turn to 0G	Leading edges of yaw fins move upward, downward, and then re- turn to the center line			117 (33)
		Fins do not respond			117 (33)
	Trouble shoot as specified above for RESPONSE OR VOLTAGE meter TSS: RESP TIME A				117 (33)

INDICATIONS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE
RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: RESP TIME B	RESPONSE OR VOLTAGE meter reads 80 ± 20			118 (34)
		RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: COMM SIG CCS: MEAS YAW COMMAND: +5G	Yaw fins deflect Yaw fins do not deflect	118 (34) 118 (34)
RF POWER meter does read 80 ± 20	Observe RF POWER meter	RF POWER meter does not read near ∞			118 (34)
		RF POWER meter reads at or near ∞	TSS: RF TEST SIG PMC: MEAS T/Ds: 00.00	RF POWER meter reads between 0 and 1 RF POWER meter does not read between 0 and 1	118 (34) 118 (34)
output from Command Modulator grounded)					
					119 (35)
RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: RESP TIME A	RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: COMM SIG CCS: MEAS Depress START sw	Glow moves around count tubes and stops after 59 to 69 milliseconds Glow does not stop	119 (35) 119 (35)
		RESPONSE OR VOLTAGE meter does not read 80 ± 20			119 (35)
Yaw fins do not read 80 ± 20	TSS: COMM SIG CCS: MEAS YAW COMMAND: +5G	Yaw fins deflect			119 (35)
		Yaw fins do not deflect	PMC: MEAS TSS: RF TEST SIG T/Ds: 04.00	RF POWER meter reads 0 RF POWER meter does not read 0	119 (35) 119 (35)

EQUIPMENT SETTINGS	ABNORMAL INDICATION	CHECKS	INDICATIONS	CHECKS
64. RESPONSE OR VOLTAGE meter TSS: COMM SIG CCS: MEAS after START sw depressed	RF POWER meter does not read near ∞			
	RF POWER meter reads at or near ∞	TSS: TRANS TEST T/Ds: missile code + 1 usec	RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: RESP TIME
			RESPONSE OR VOLTAGE meter does not read 80 ± 20	TSS: COMM SIG CCS: MEAS YAW COMMAND: +5
65. Missile Fins TSS: COMM SIG CCS: MEAS after RESET sw depressed	RF POWER meter does not read near ∞			
	RF POWER meter reads at or near ∞	TSS: TRANS TEST T/Ds: missile code + 1 usec	RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: RESP TIME
			RESPONSE OR VOLTAGE meter does not read 80 ± 20	FMC: MEAS TSS: RF TEST ST T/Ds: 04.00

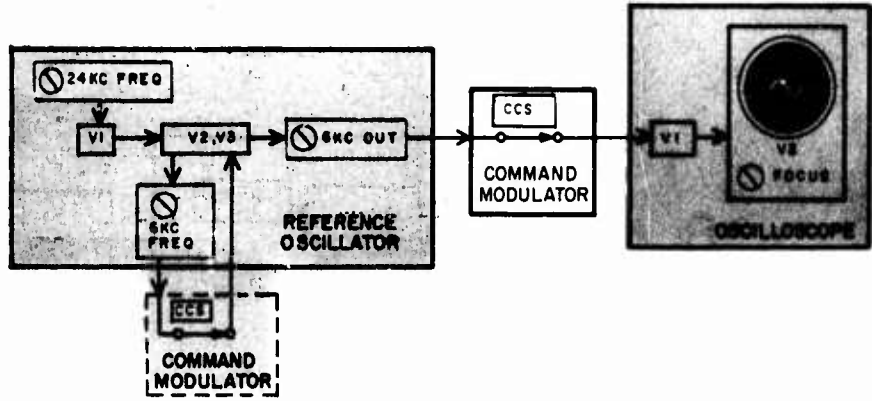
INS	CHECKS	INDICATIONS	CHECKS	INDICATIONS	PAGE
					119 (35)
VOLTAGE 80 ± 20	TSS: RESP TIME A	RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: COMM SIG CCS: MEAS Depress START sw	Glow moves around count tubes and stops after 59 to 69 milliseconds Glow does not stop	119 (35) 119 (35)
		RESPONSE OR VOLTAGE meter does not read 80 ± 20			119 (35)
VOLTAGE not read	TSS: COMM SIG CCS: MEAS YAW COMMAND: +5G	Yaw fins deflect			119 (35)
		Yaw fins do not deflect	PMC: MEAS TSS: RF TEST SIG T/Ds: 04.00	RF POWER meter reads 0 RF POWER meter does not read 0	119 (35) 119 (35)
					120 (36)
VOLTAGE 80 ± 20	TSS: RESP TIME A	RESPONSE OR VOLTAGE meter reads 80 ± 20	TSS: COMM SIG CCS: MEAS Depress START sw	Glow moves around count tubes and stops after 59 to 69 milliseconds Glow does not stop	120 (36) 120 (36)
		RESPONSE OR VOLTAGE meter does not read 80 ± 20			120 (36)
VOLTAGE not read	PMC: MEAS TSS: RF TEST SIG T/Ds: 04.00	RF POWER meter reads 0			120 (36)
		RF POWER meter does not read 0			120 (36)

UNCLASSIFIED

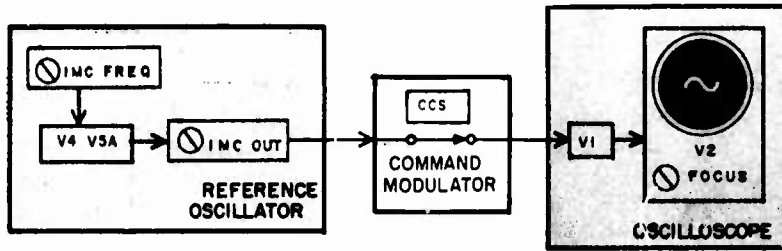


A

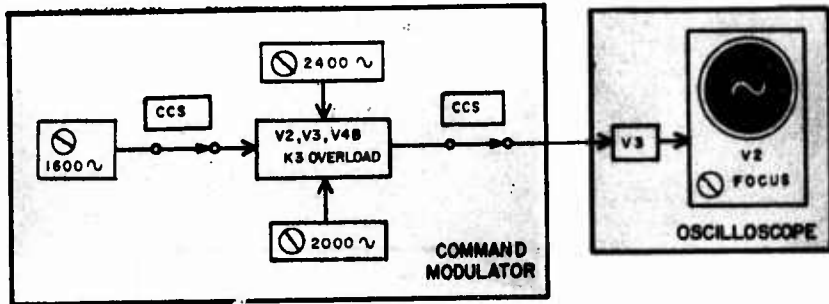
5



6



7

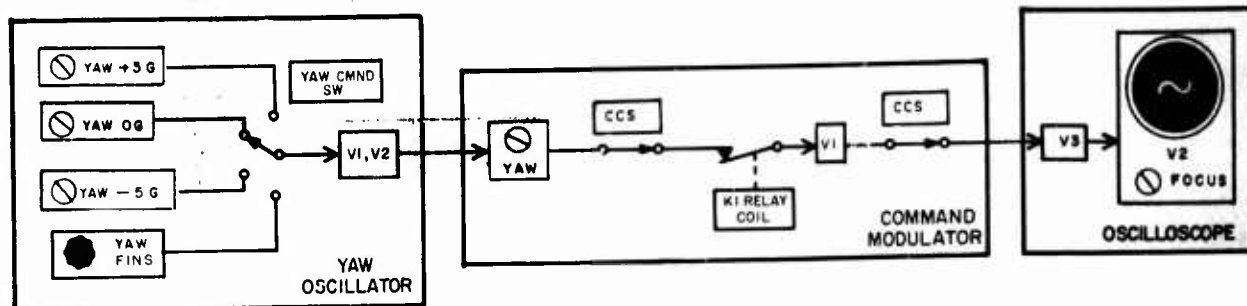


Reproduced from best available copy.

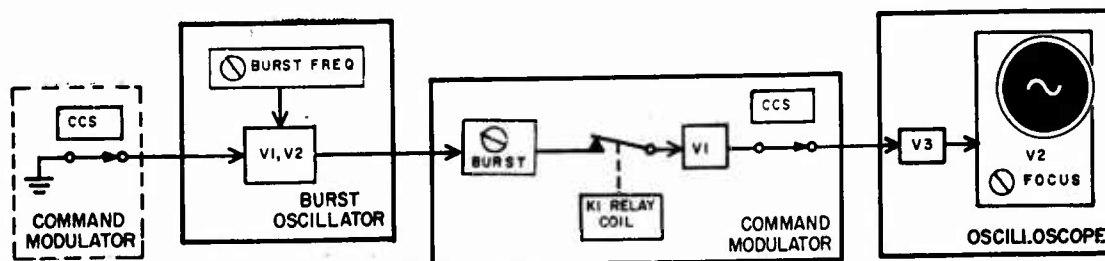


UNCLASSIFIED

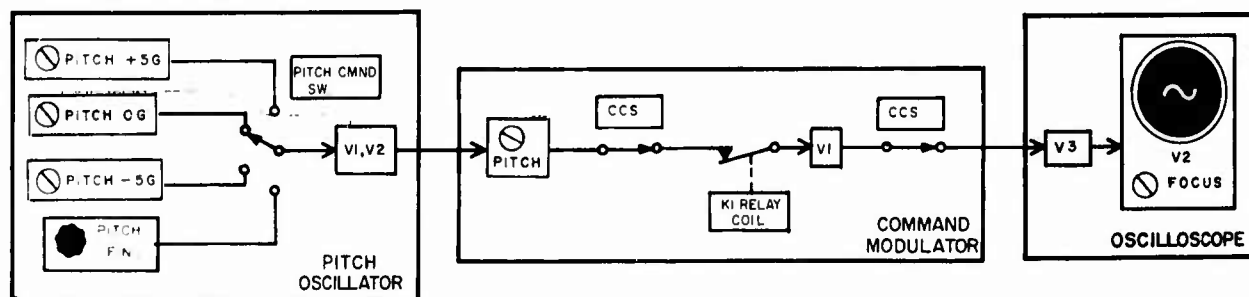
8



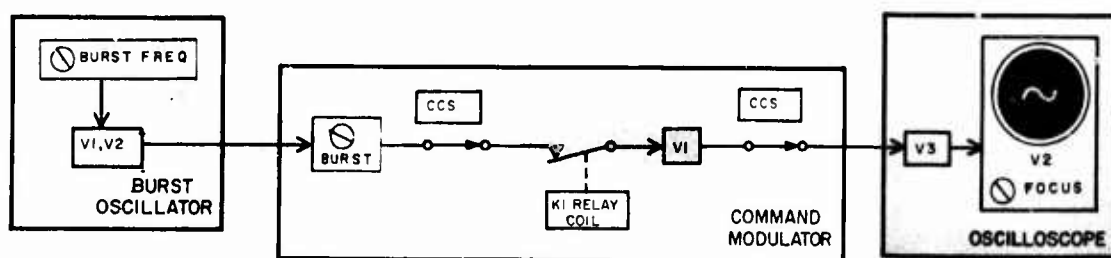
9



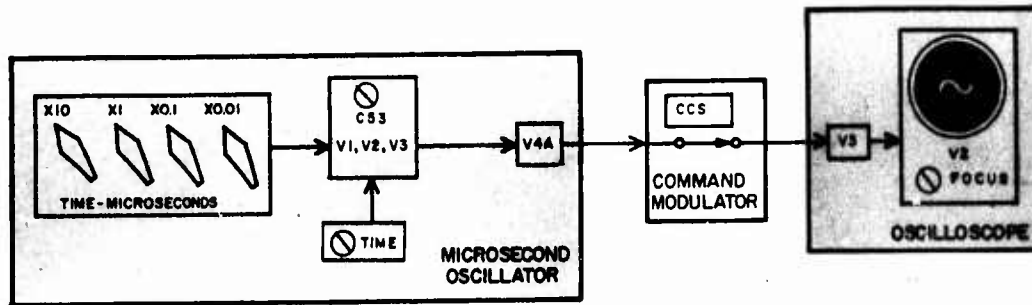
10



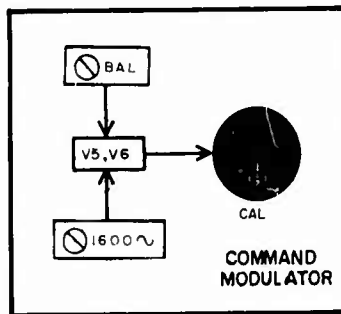
11



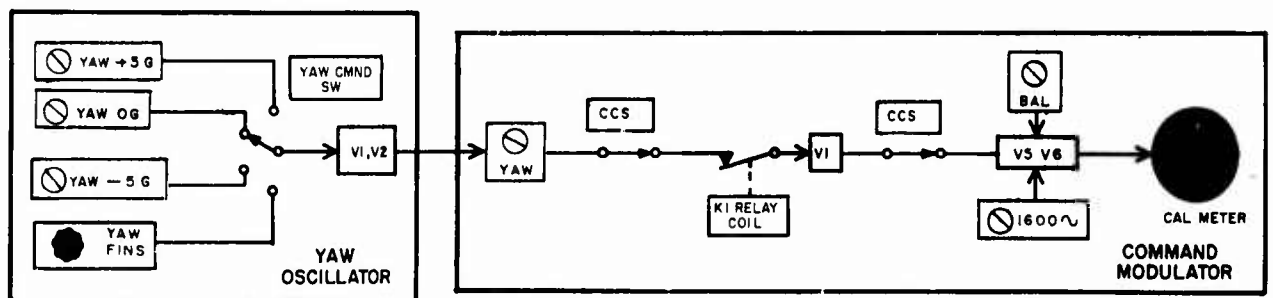
12



13

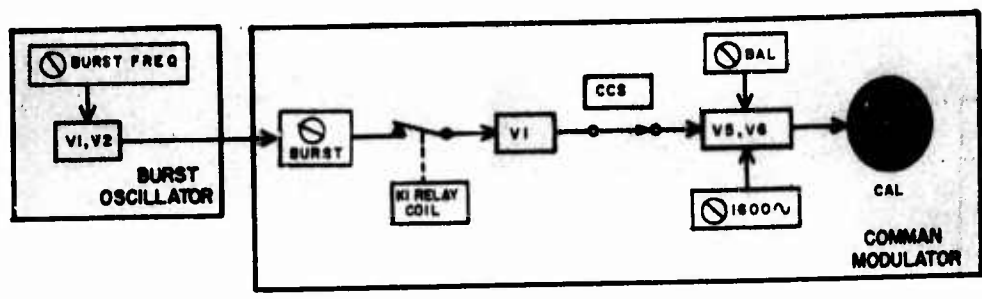


14

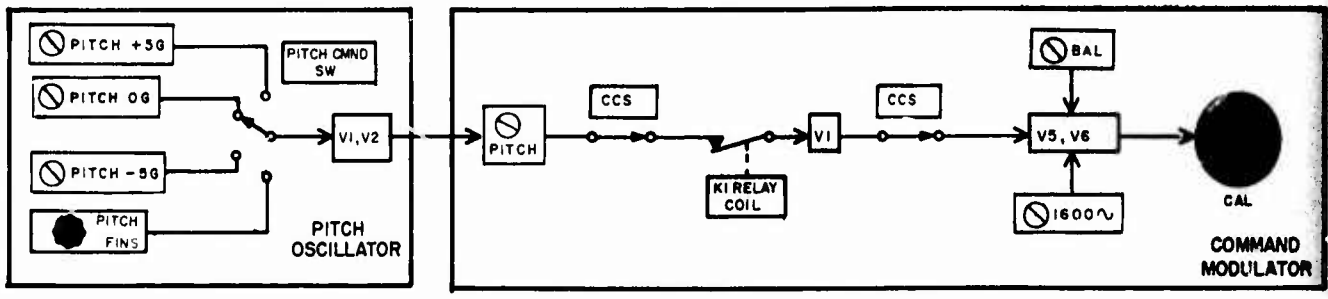


UNCLASSIFIED

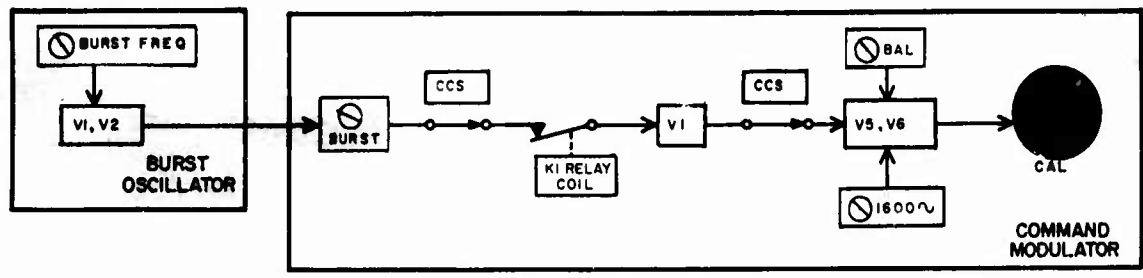
15



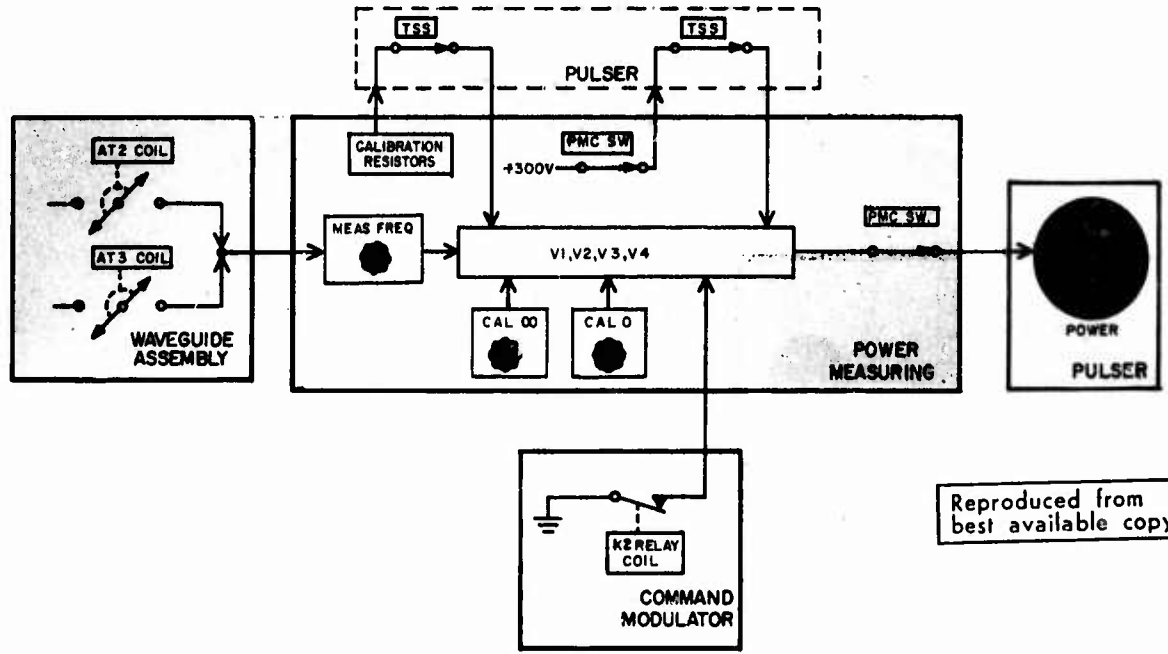
16



17



18

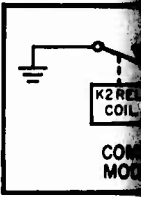
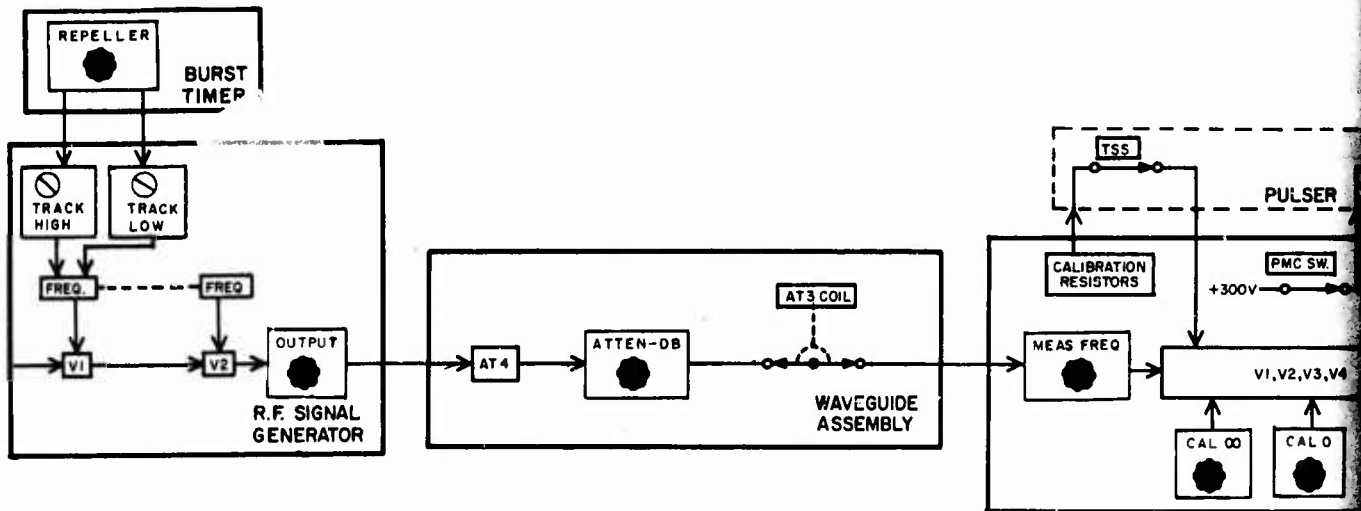


Reproduced from best available copy.

UNCLASSIFIED

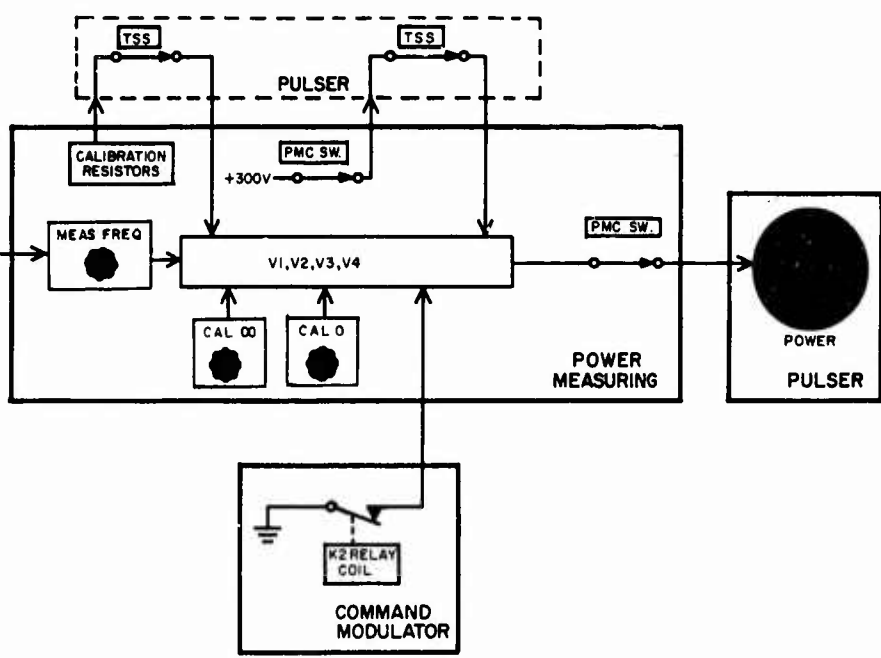


19



UNCLASSIFIED

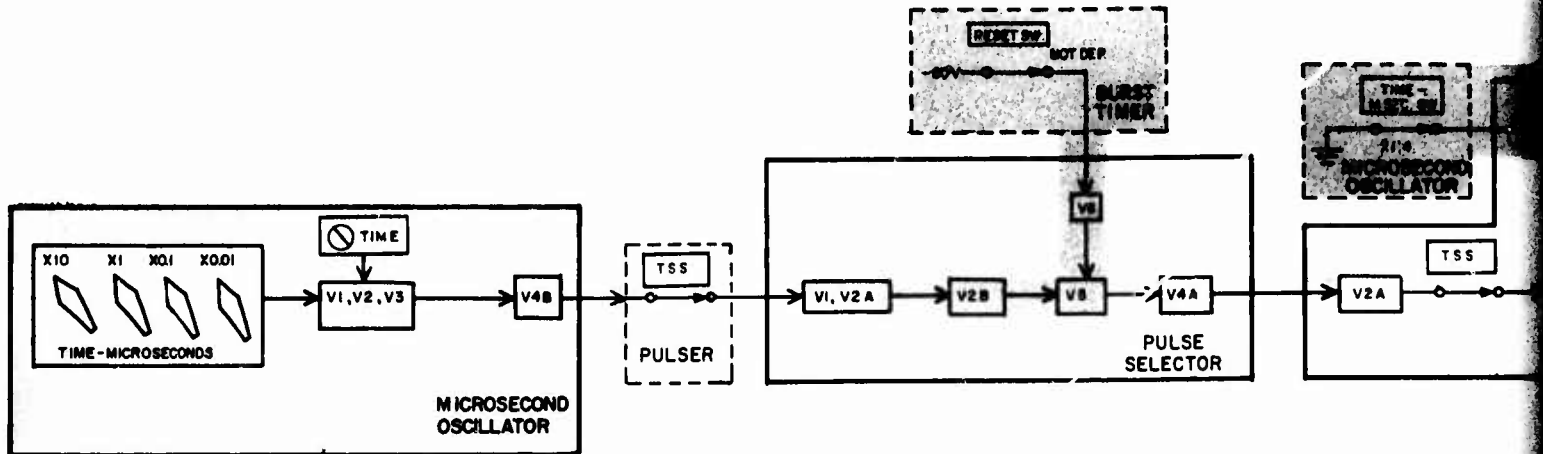
GUIDE ONLY



5

~~CONFIDENTIAL~~

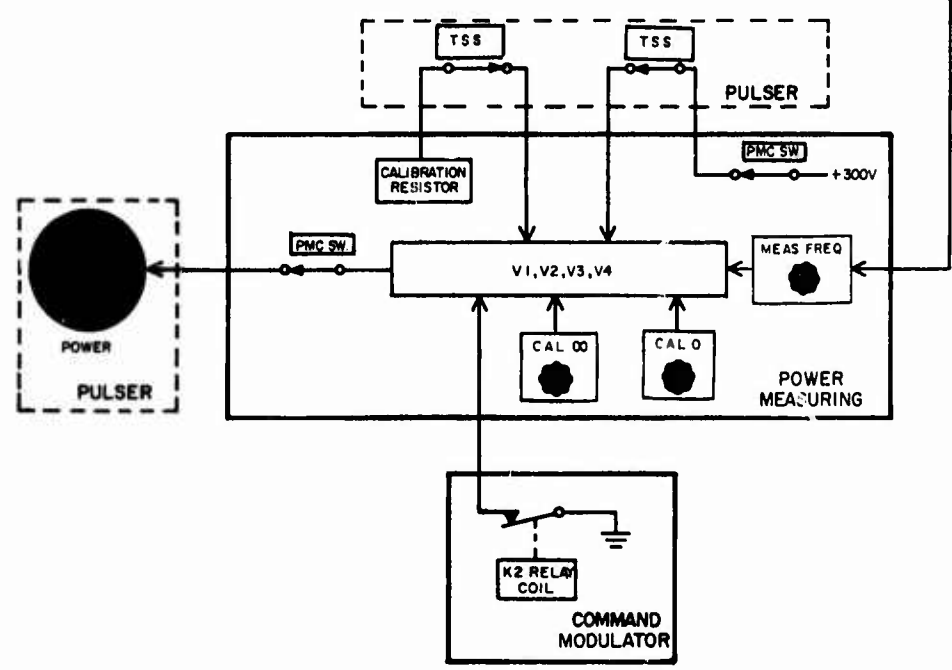
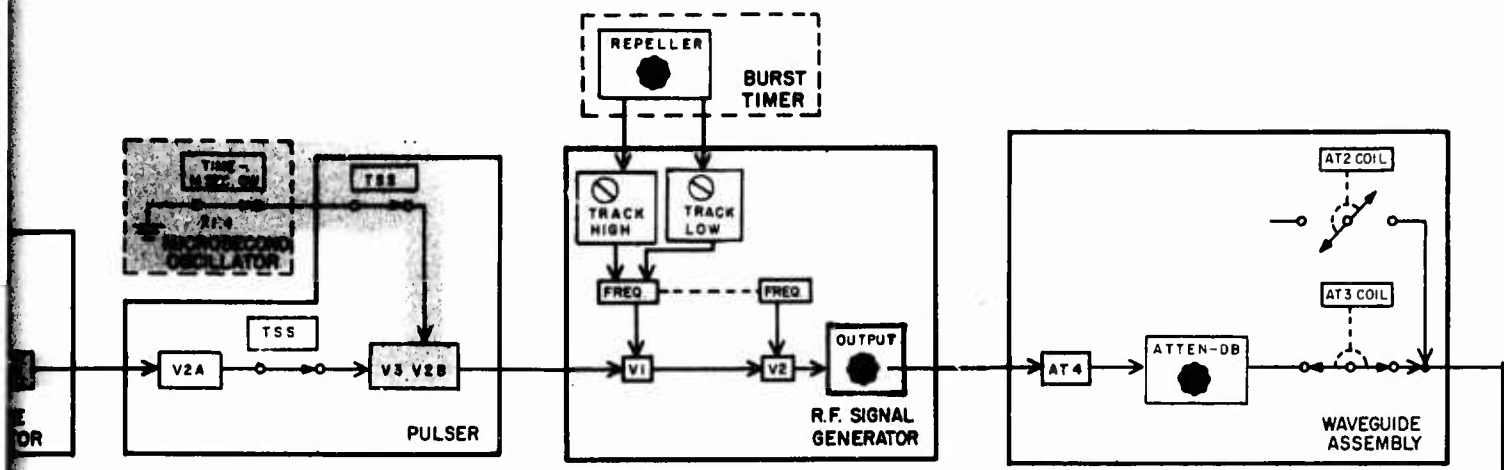
20



A

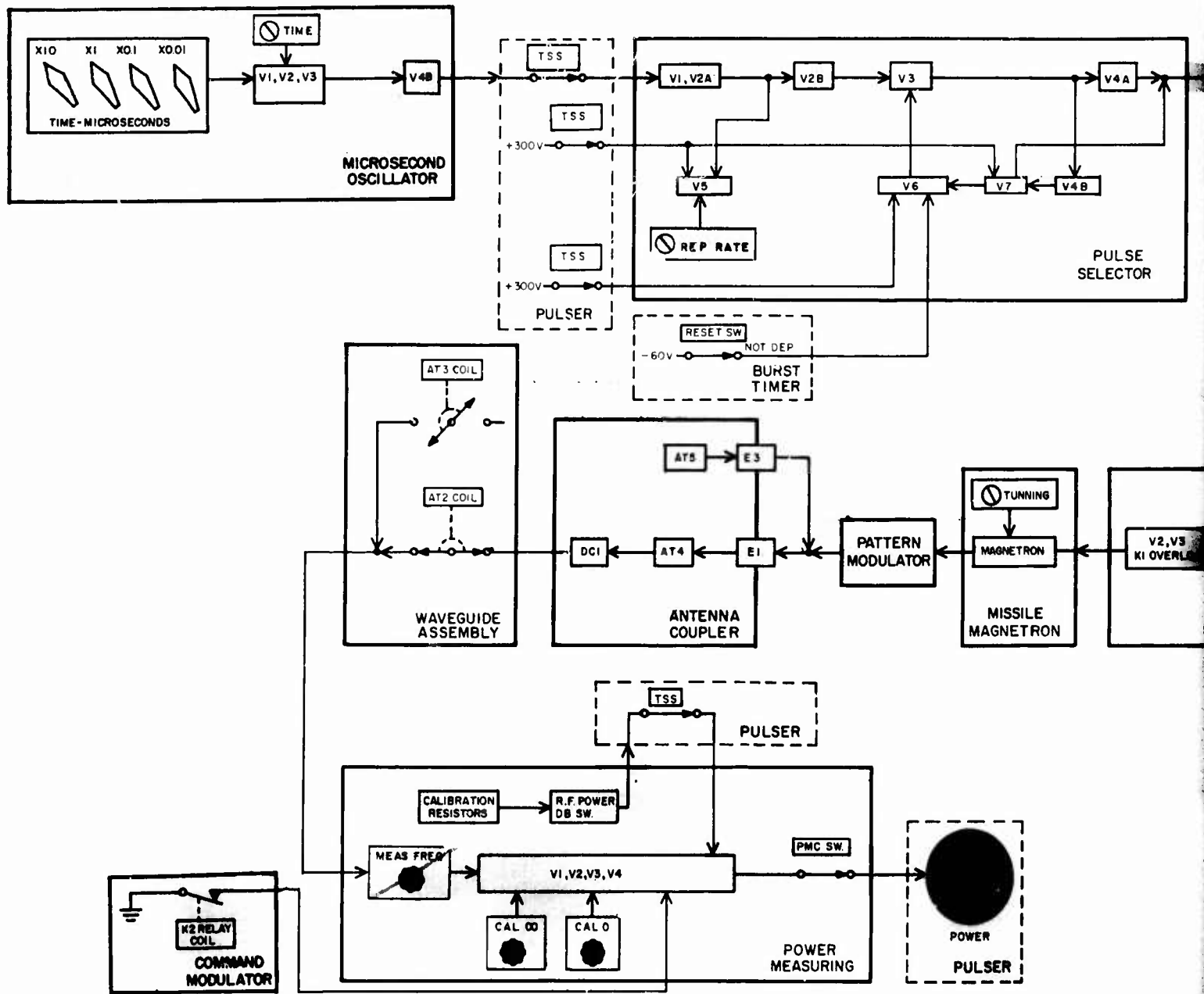
~~CONFIDENTIAL~~

~~CONFIDENTIAL~~



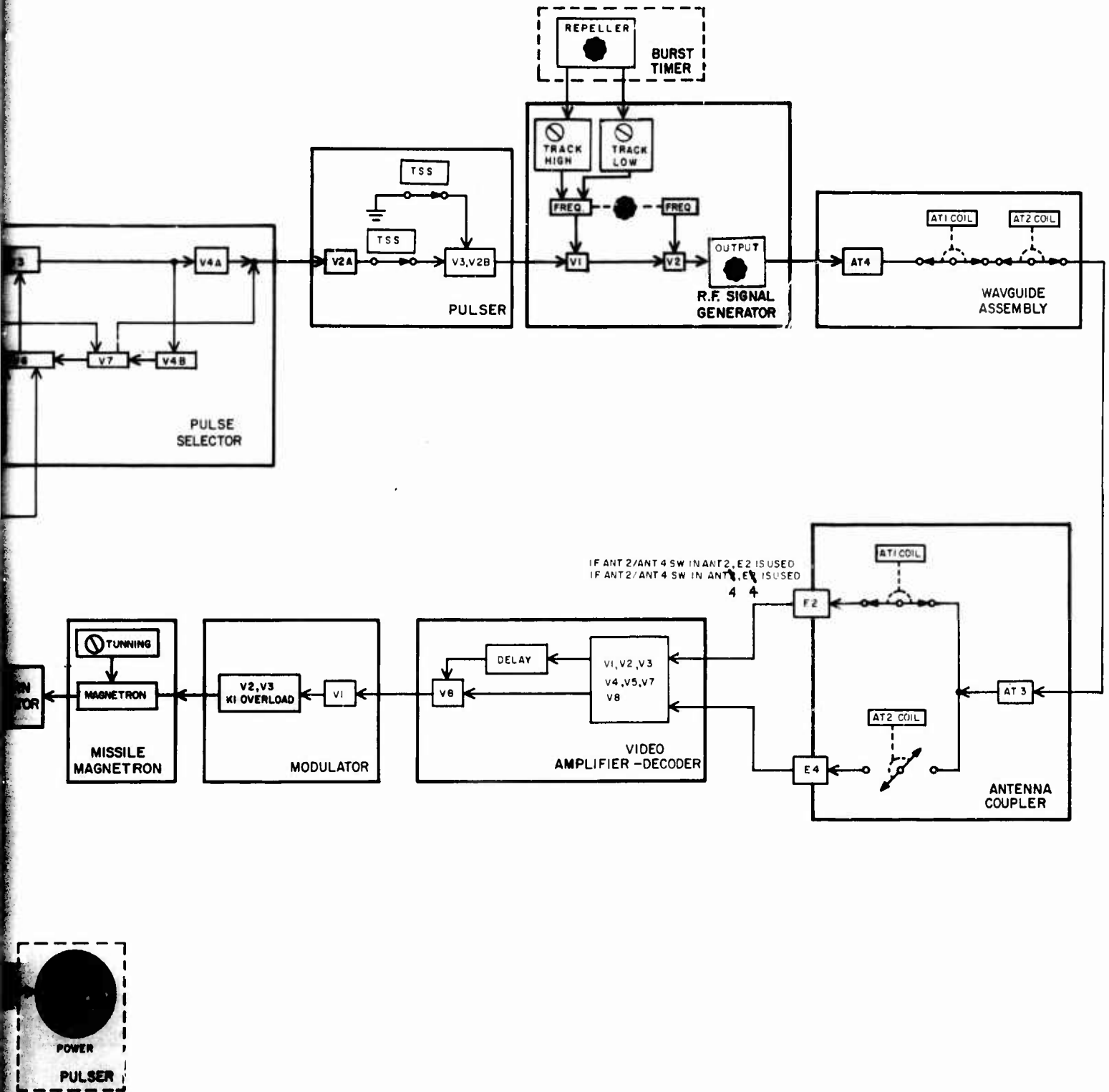
~~CONFIDENTIAL~~

UNCLASSIFIED



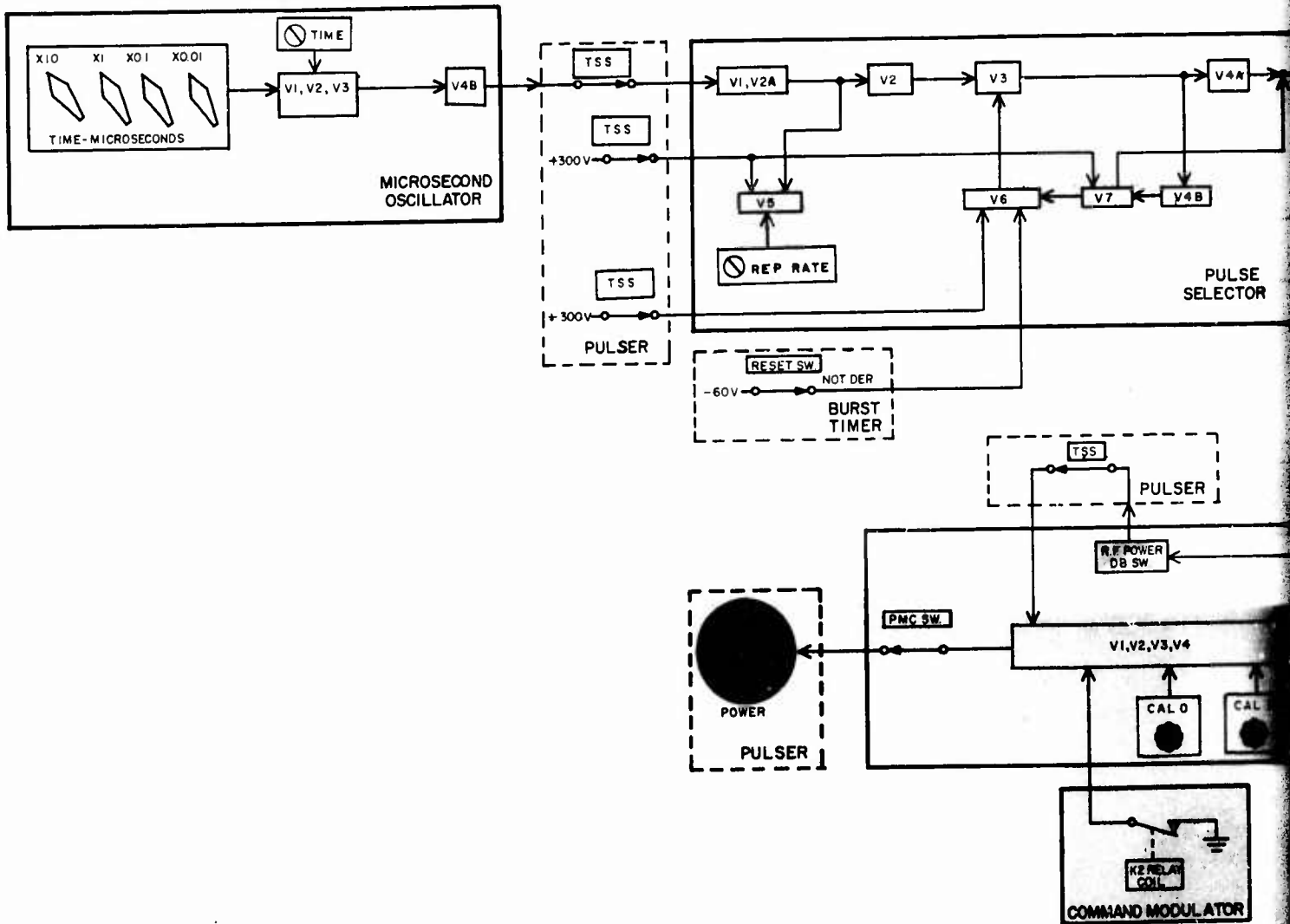
Reproduced from best available copy.

CONFIDENTIAL



~~CONFIDENTIAL~~

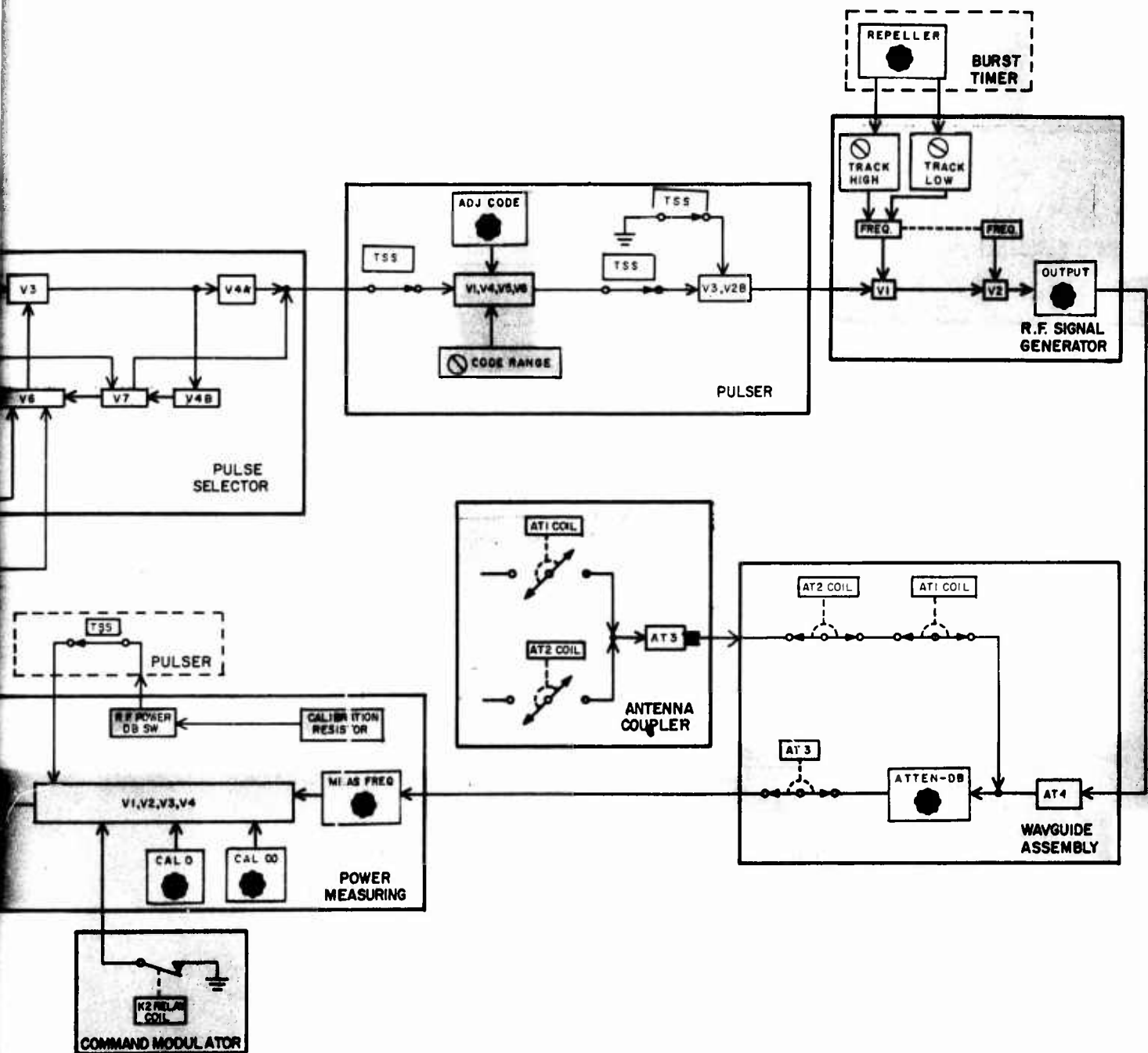
22



~~CONFIDENTIAL~~

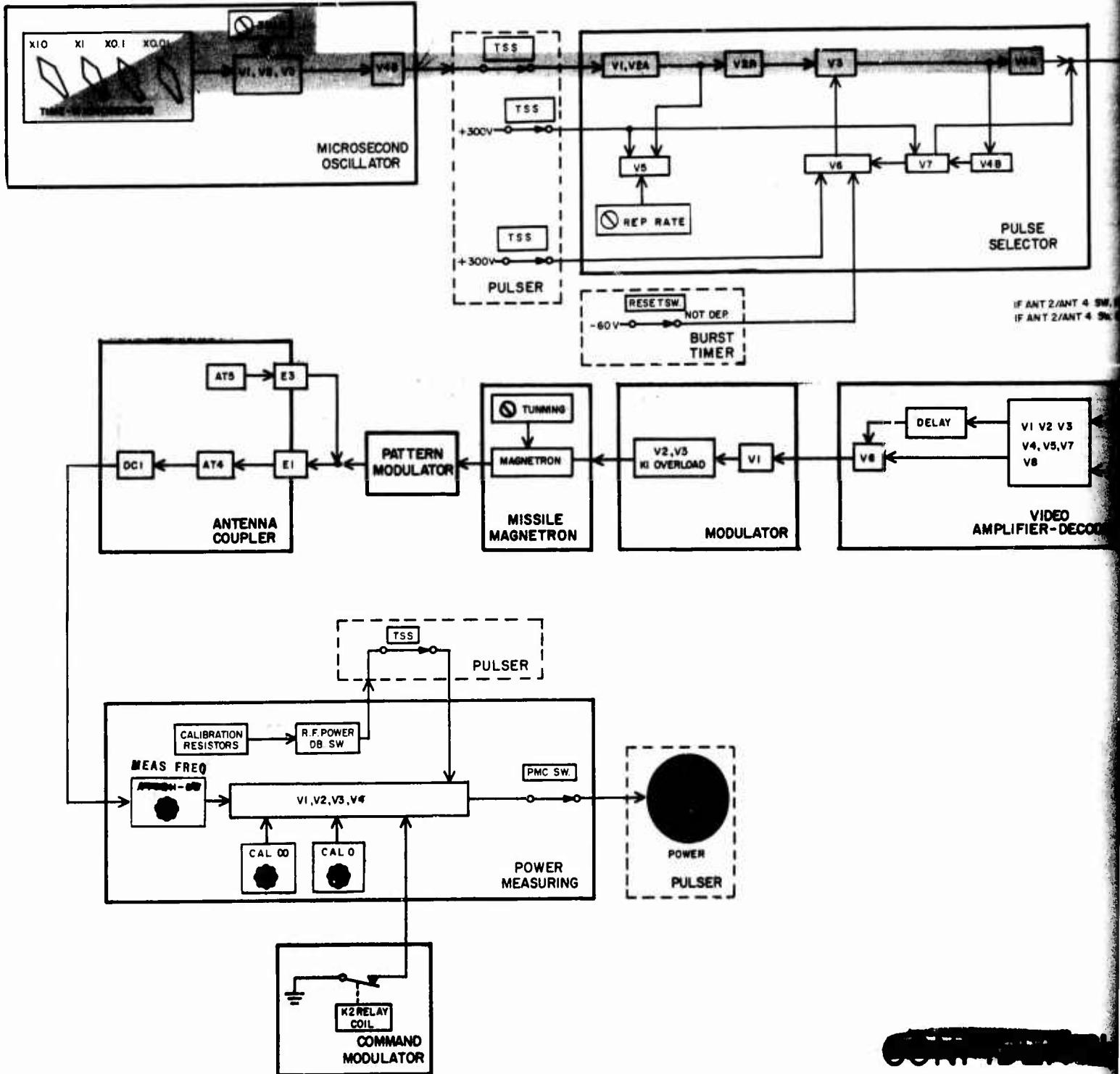
A

~~CONFIDENTIAL~~

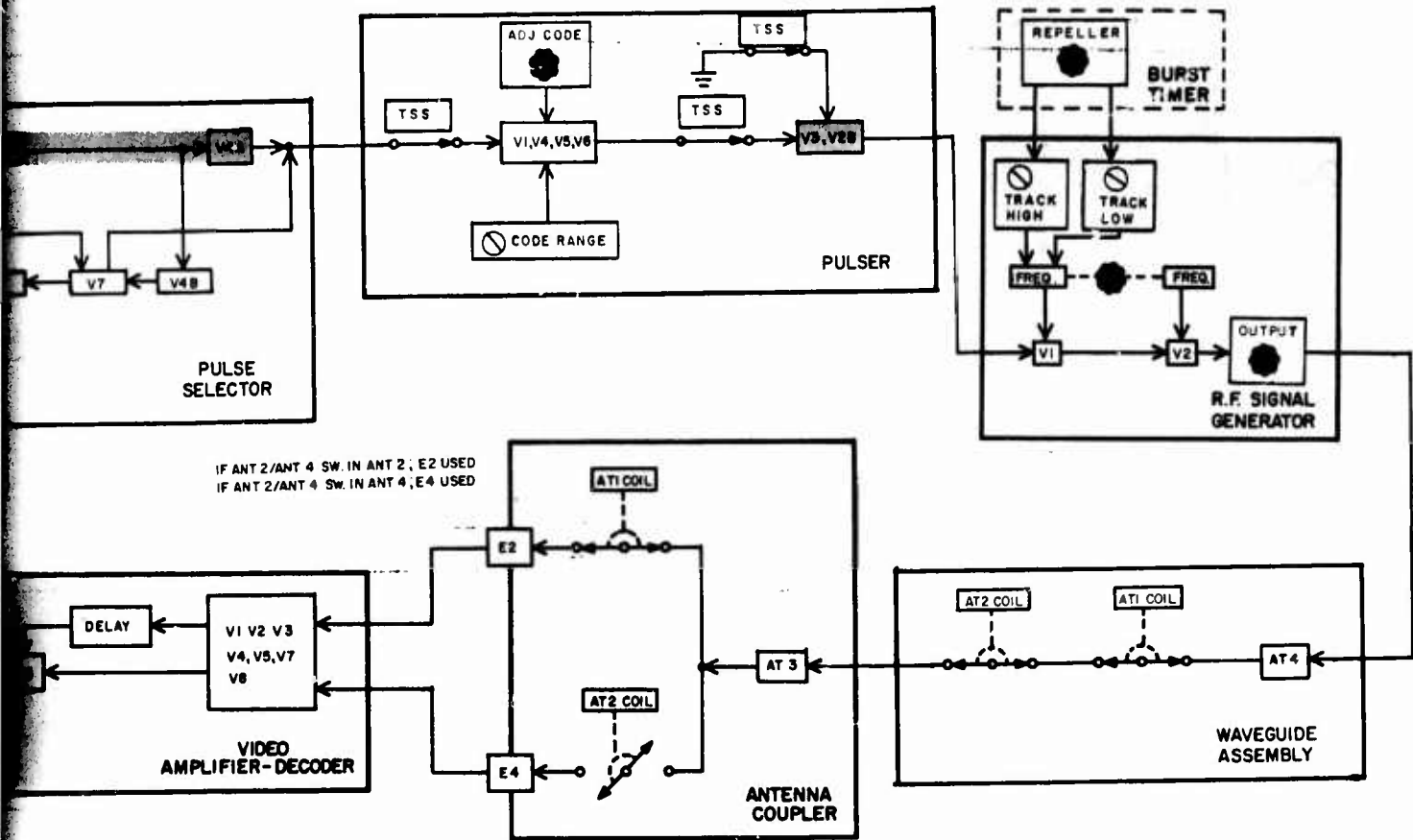


~~CONFIDENTIAL~~

~~CONFIDENTIAL~~



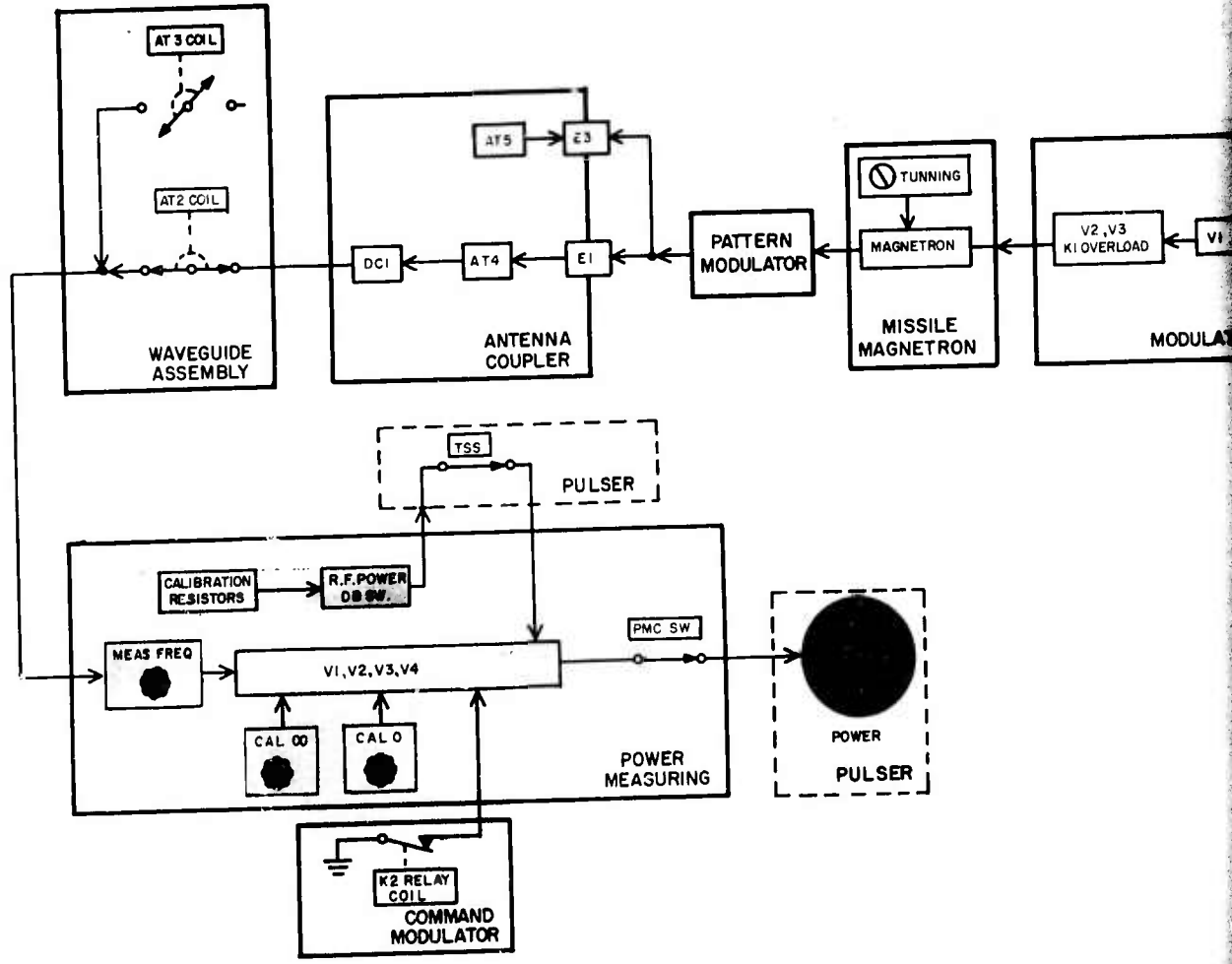
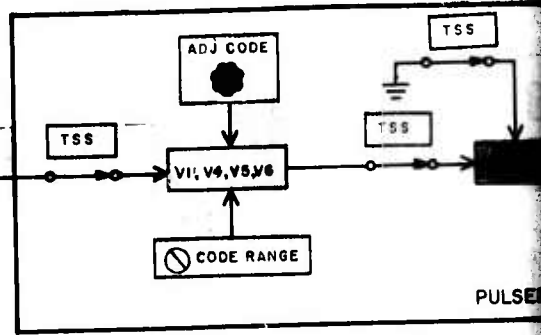
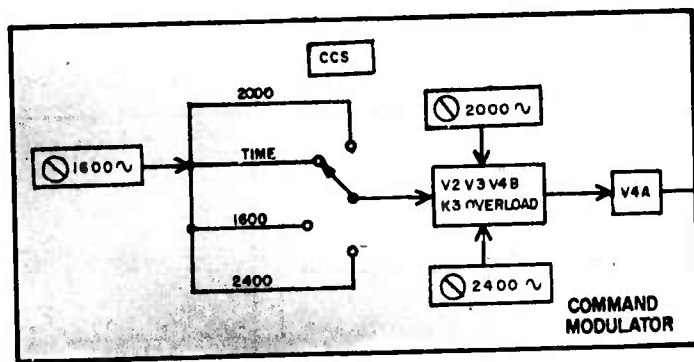
~~CONFIDENTIAL~~



Reproduced from best available copy.

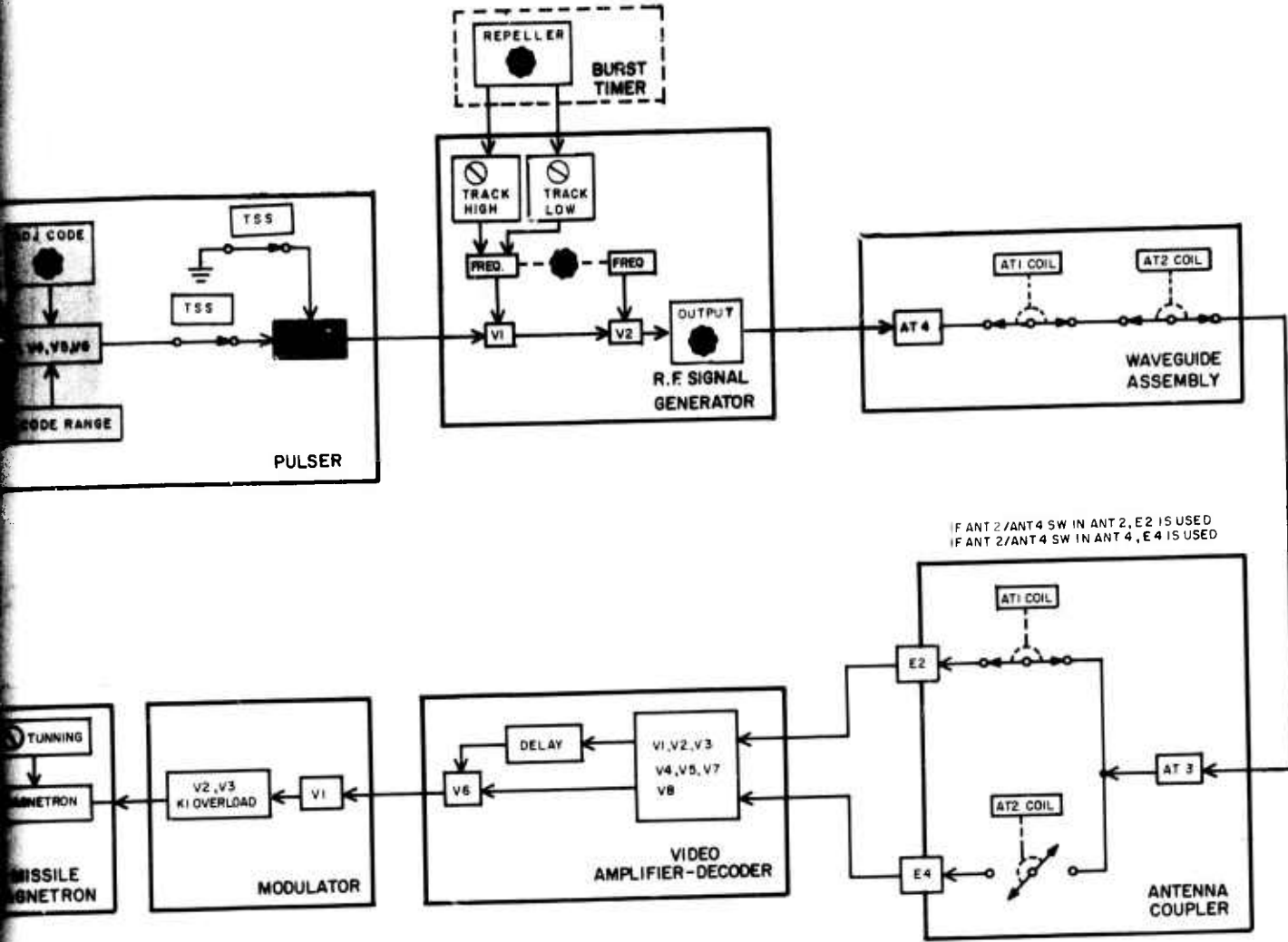
B

24



A

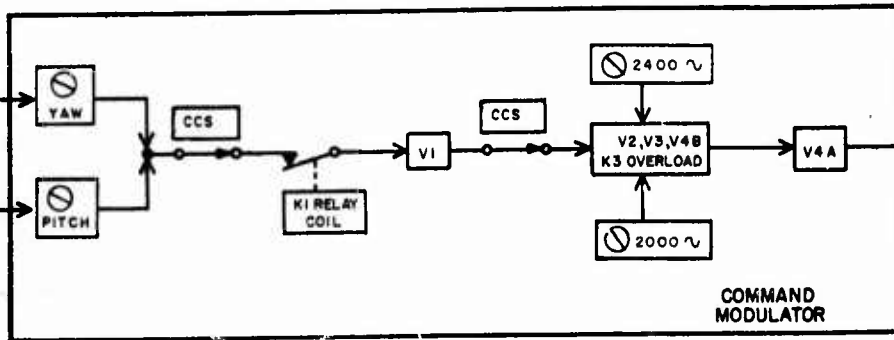
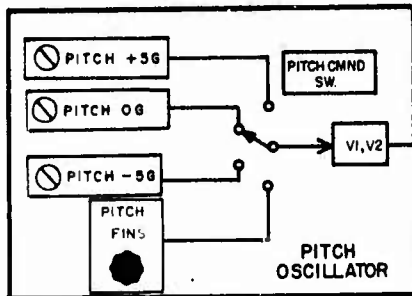
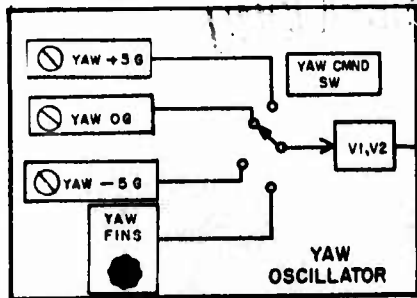
~~CONFIDENTIAL~~



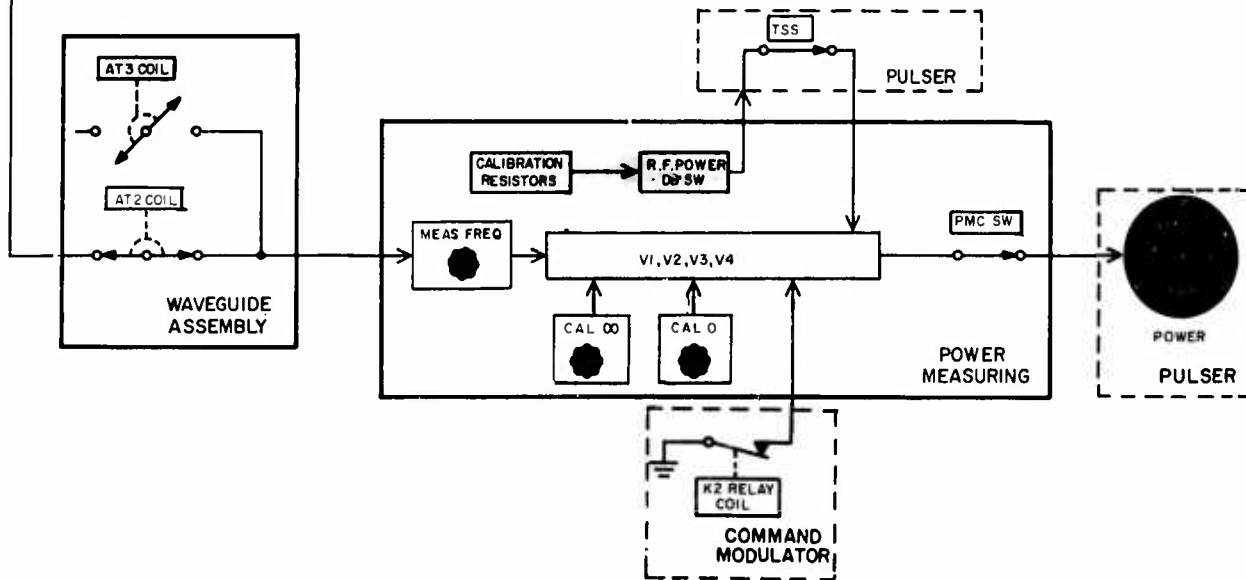
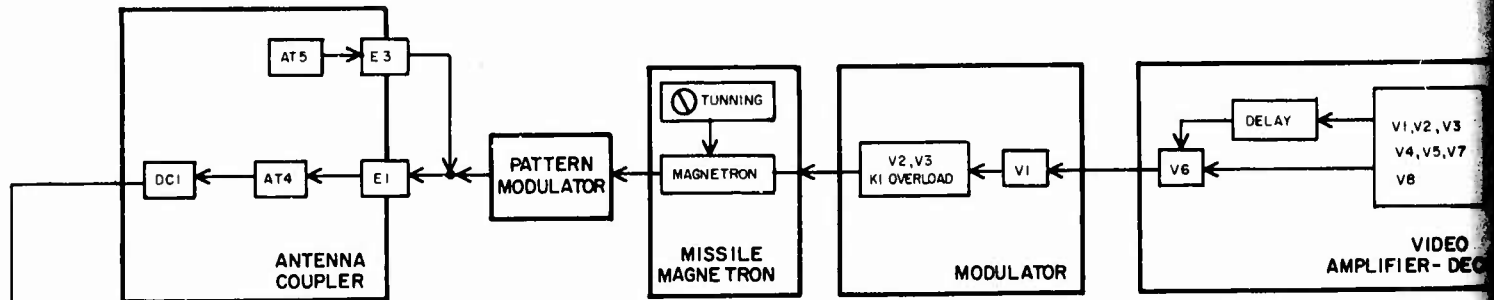
~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

25



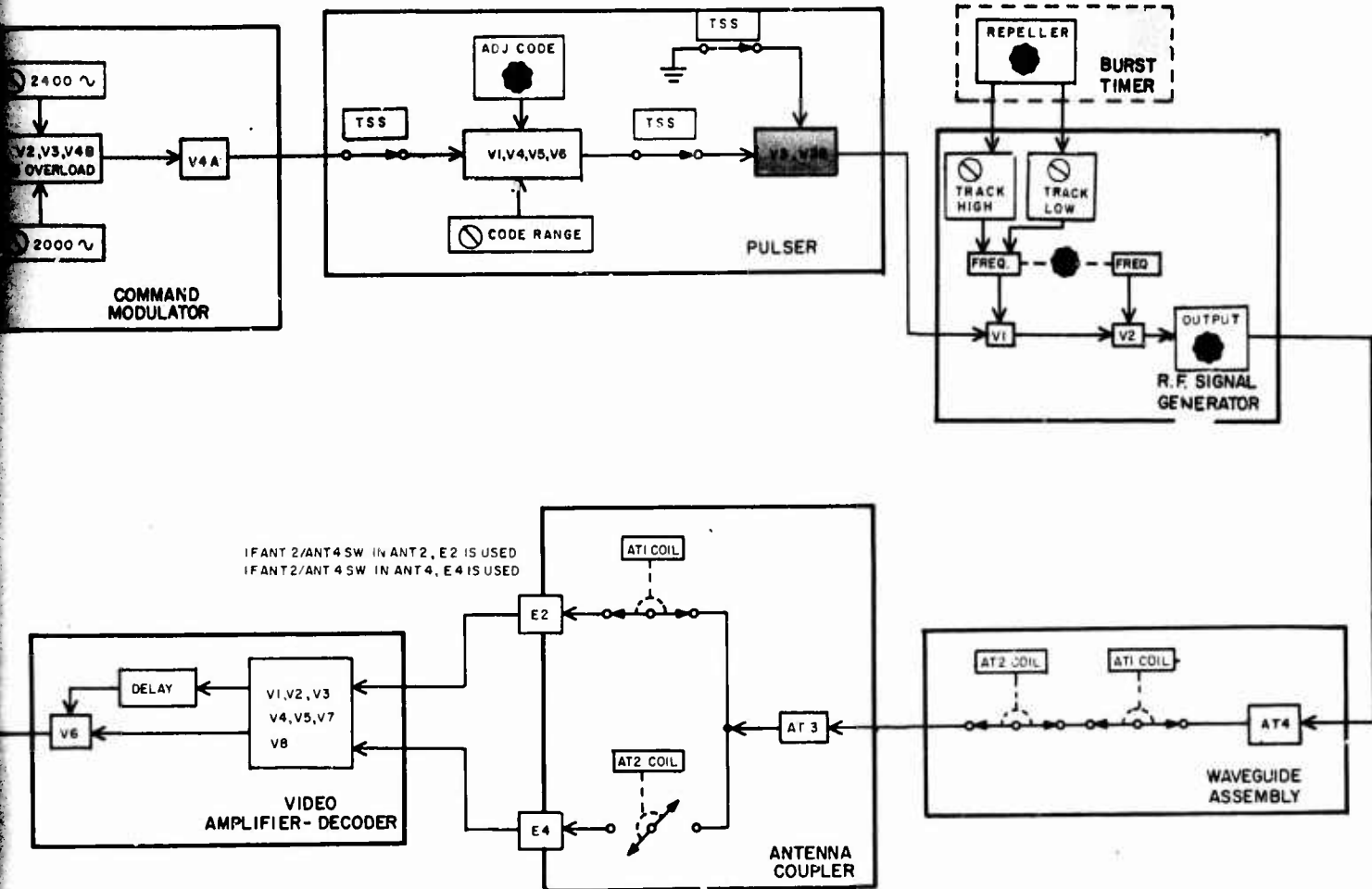
IF ANT 2/ANT 4
IF ANT 2/ANT 4



~~CONFIDENTIAL~~

A

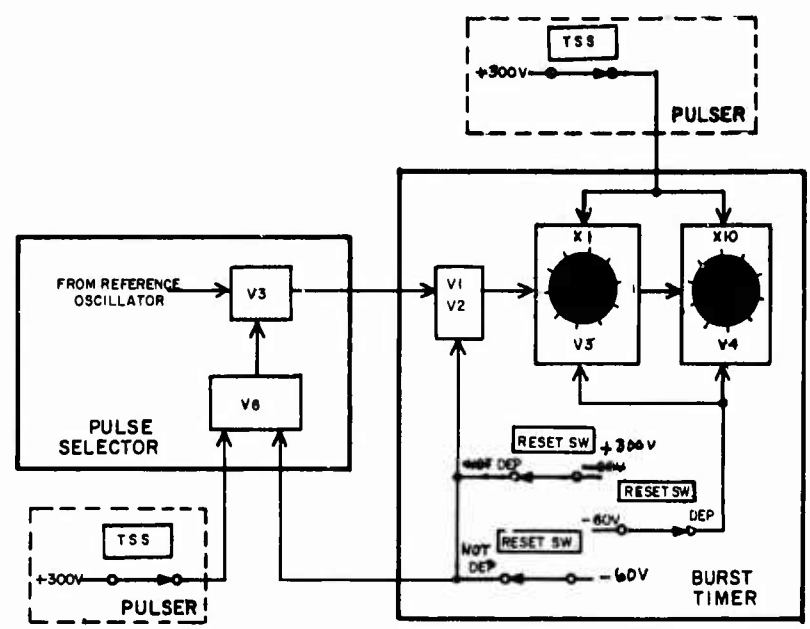
~~CONFIDENTIAL~~



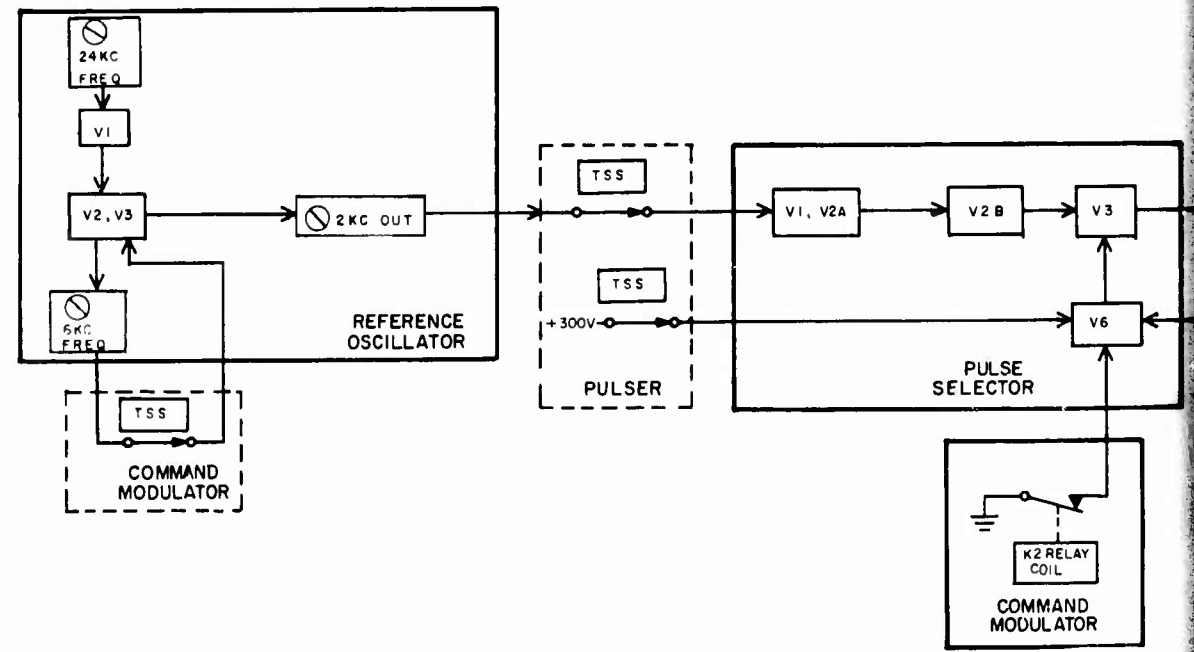
~~CONFIDENTIAL~~

Line 26

26

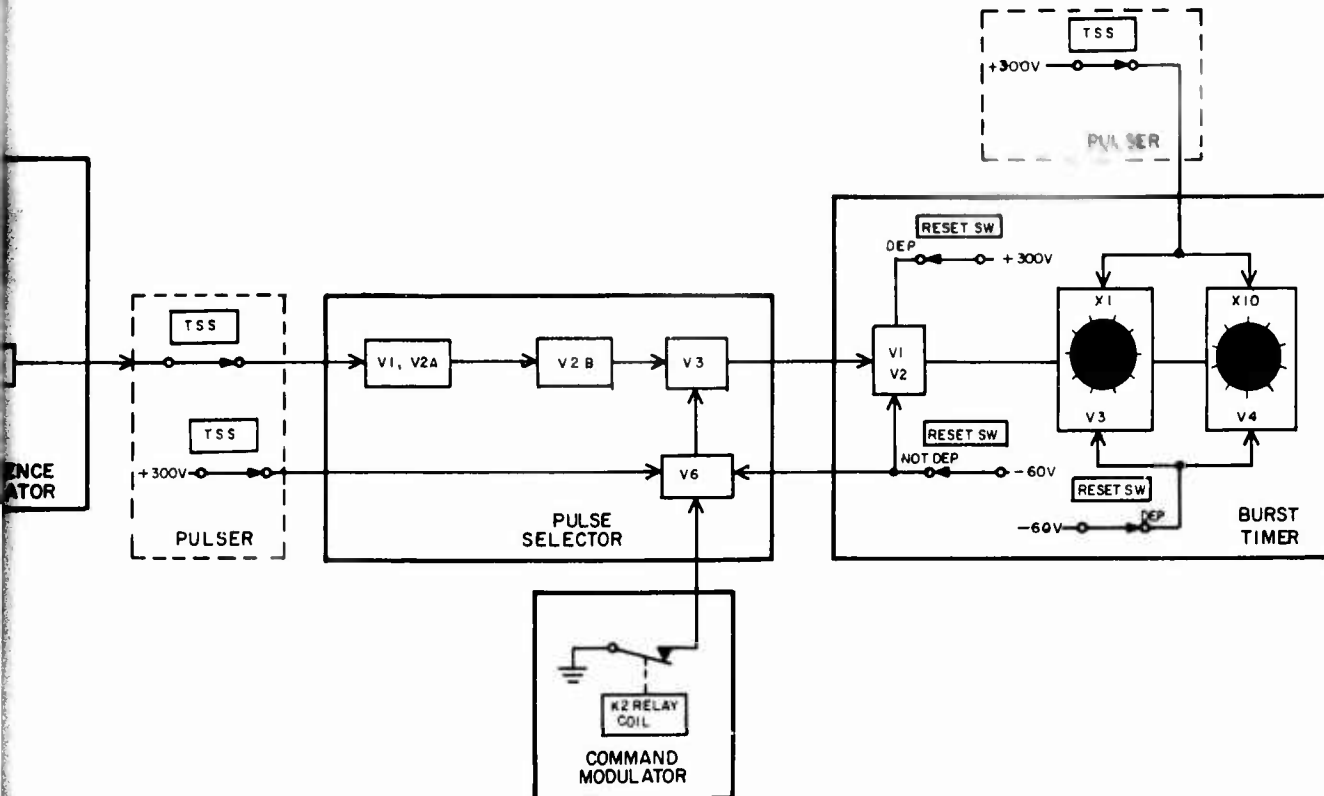
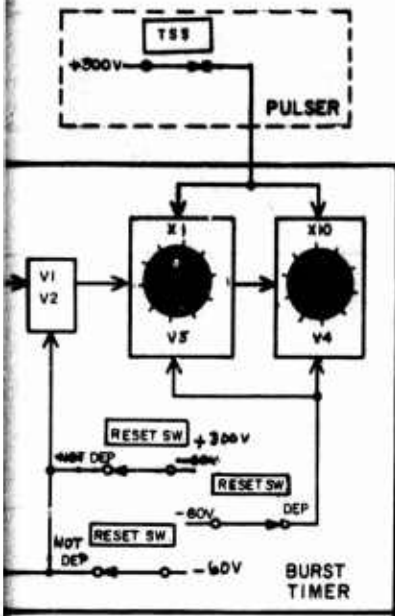


27



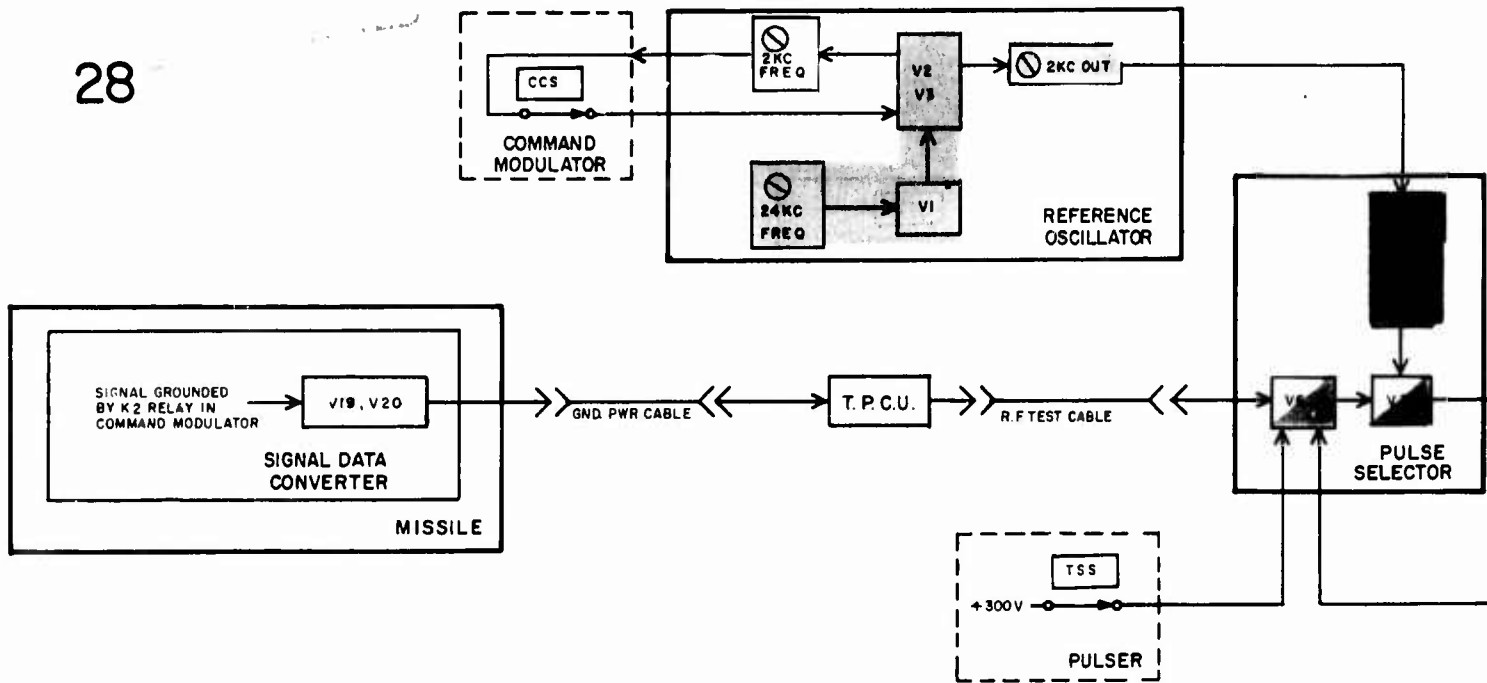
A

~~CONFIDENTIAL~~

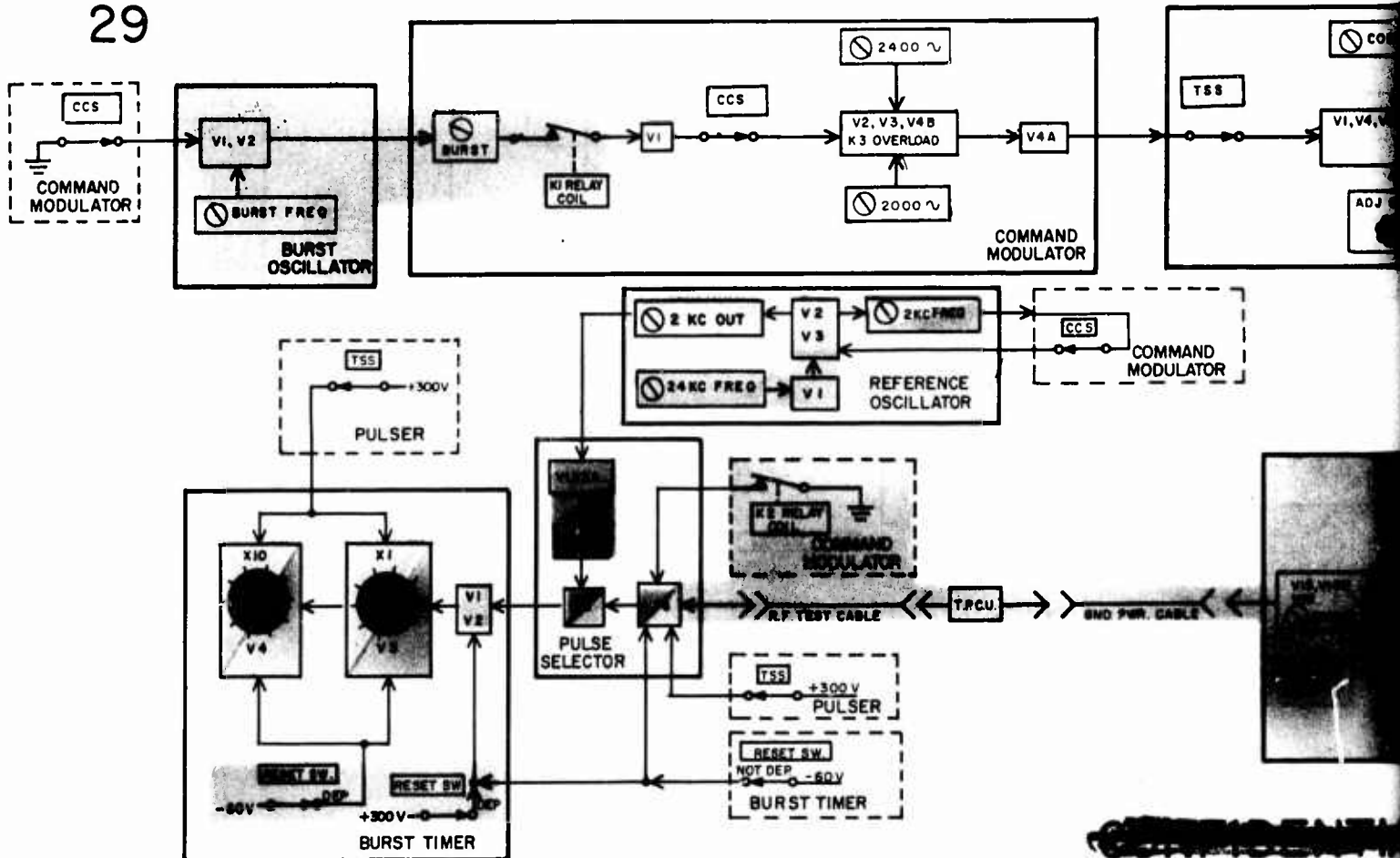


~~CONFIDENTIAL~~

28

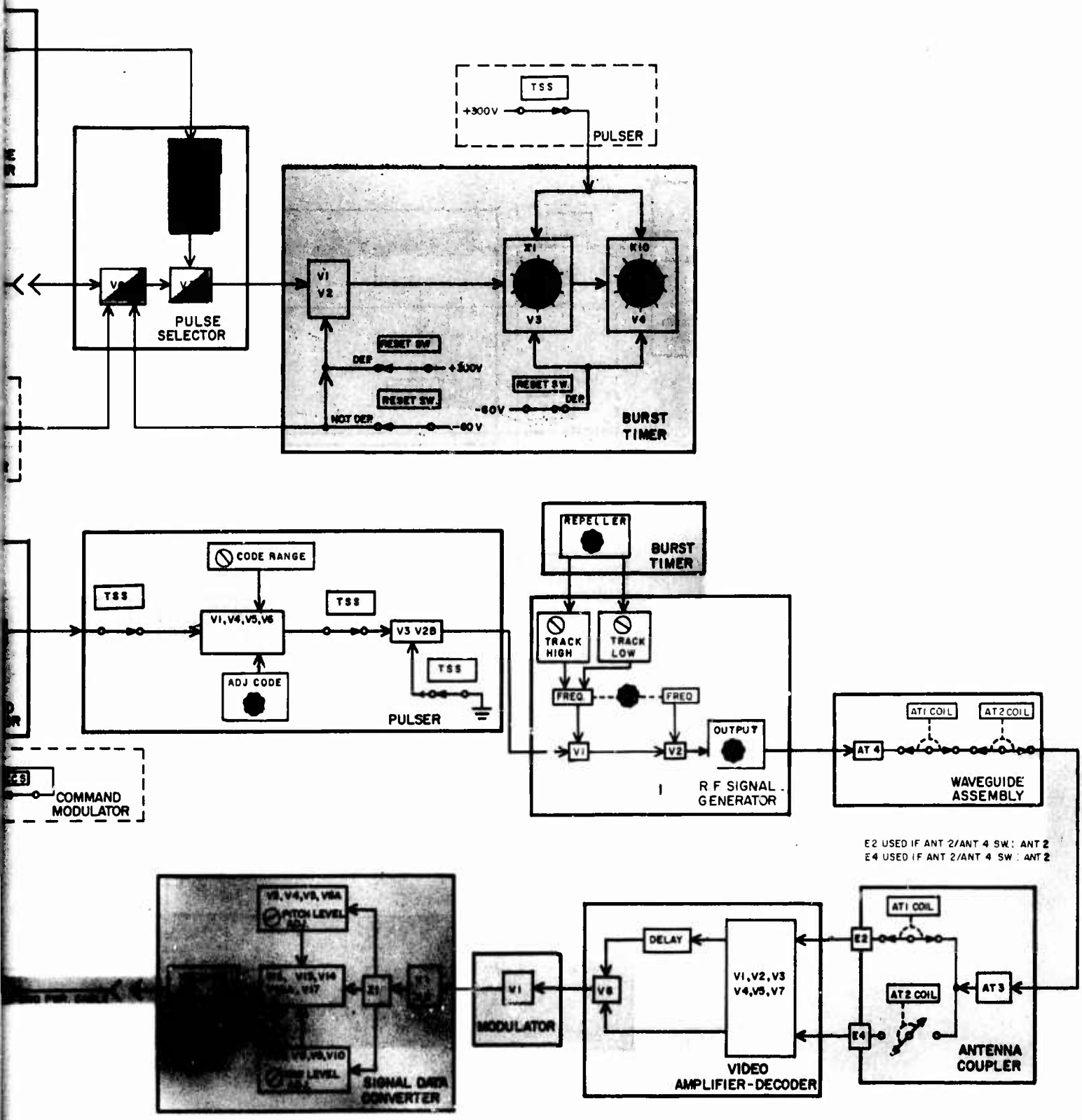


29



~~CONFIDENTIAL~~

UNCLASSIFIED

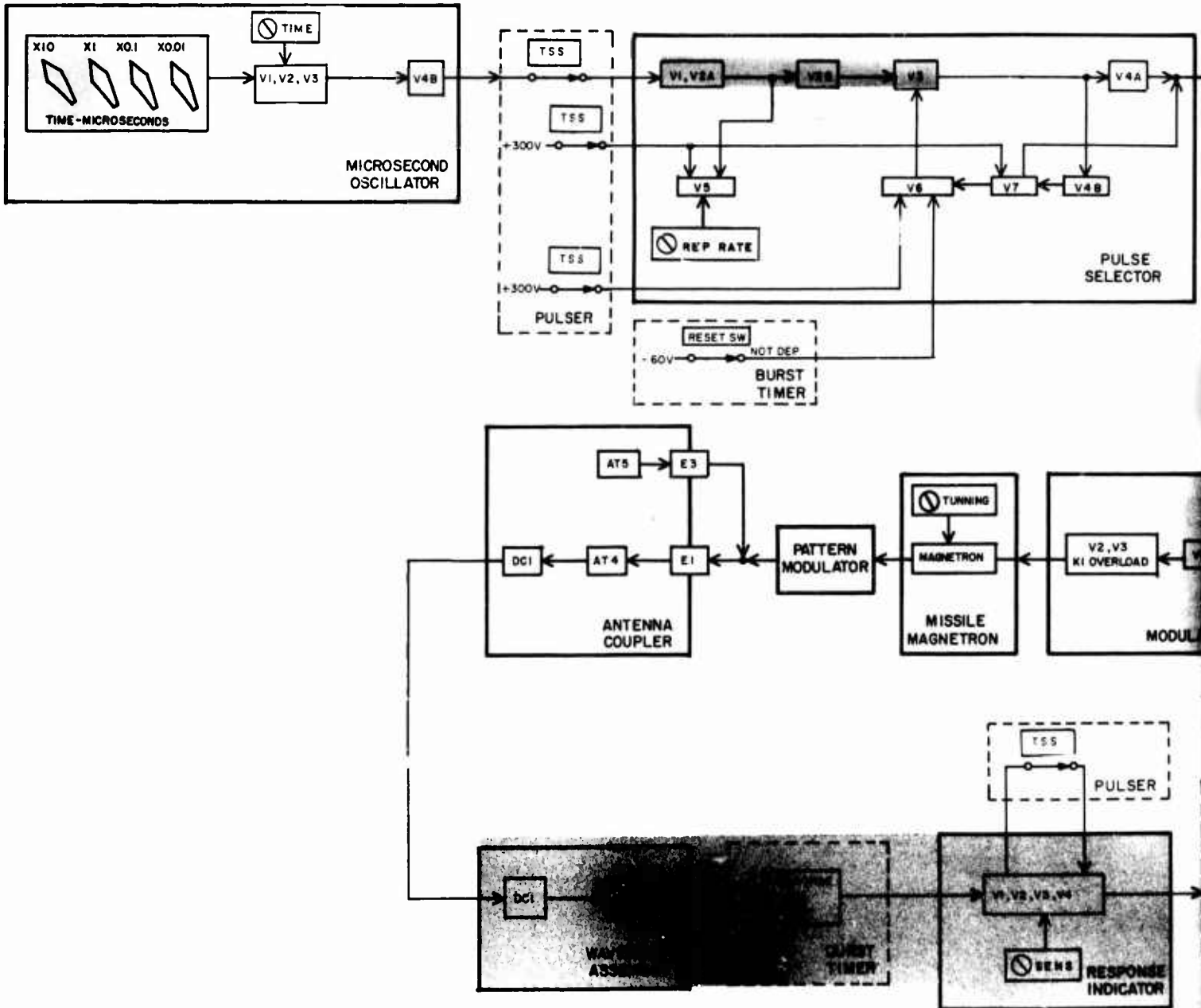


~~CONFIDENTIAL~~

UNCLASSIFIED

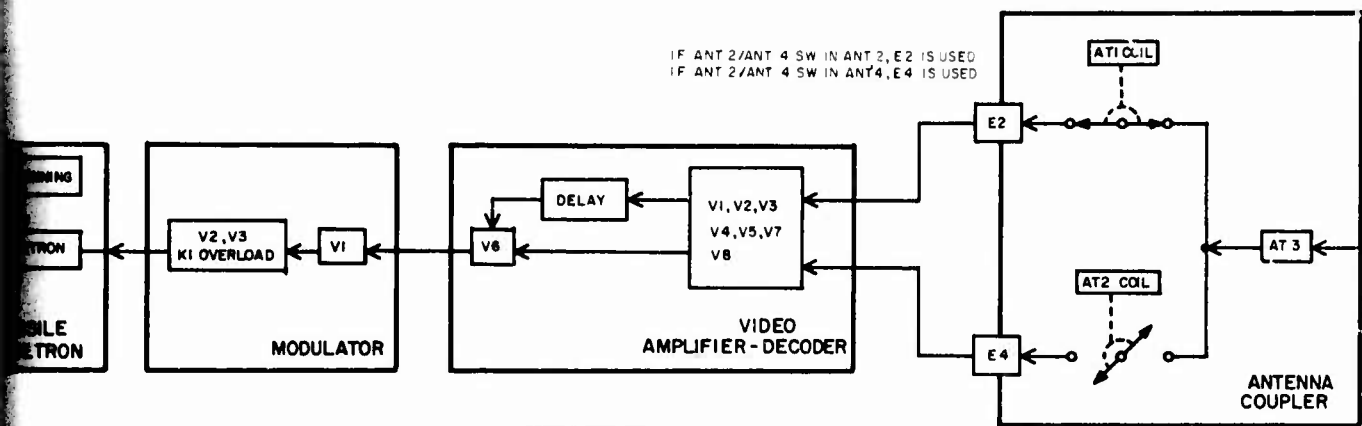
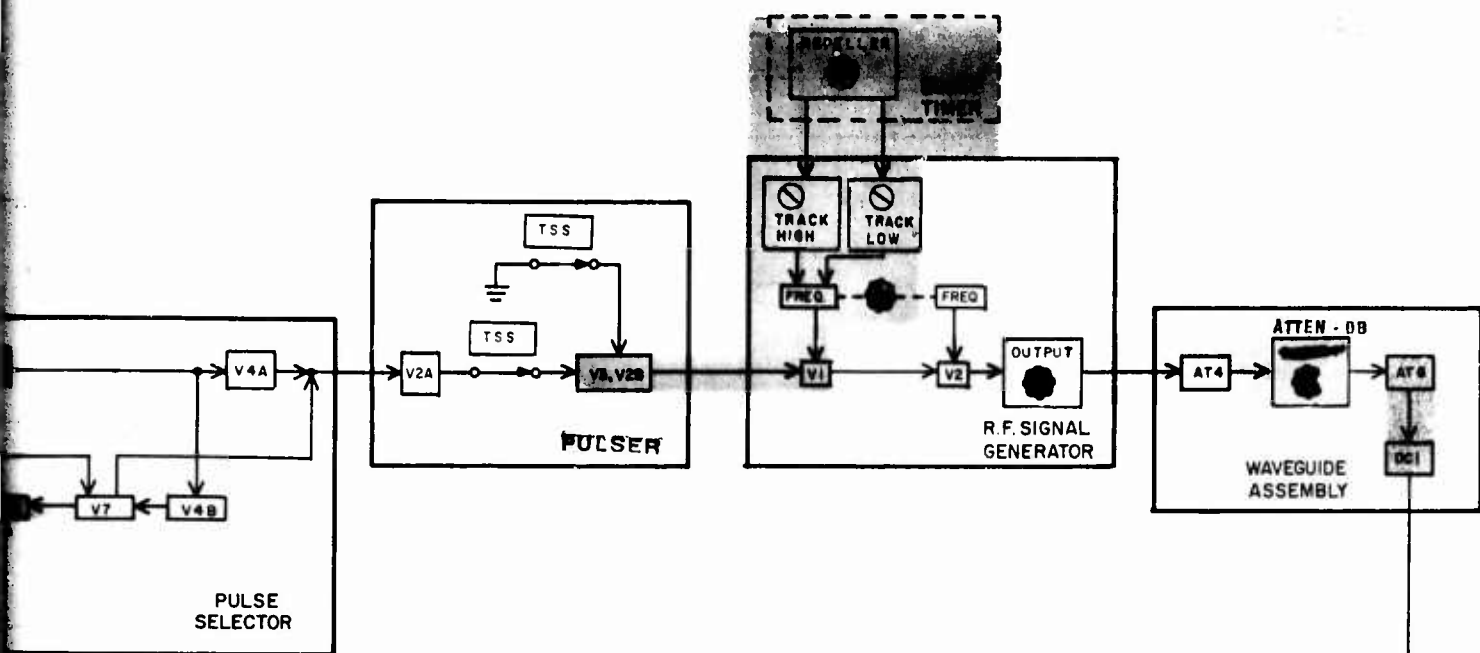
UNCLASSIFIED

30

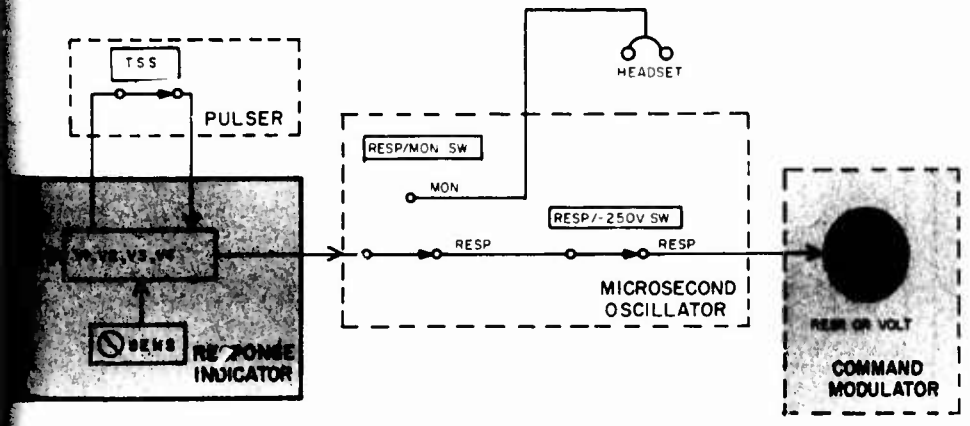


UNCLASSIFIED

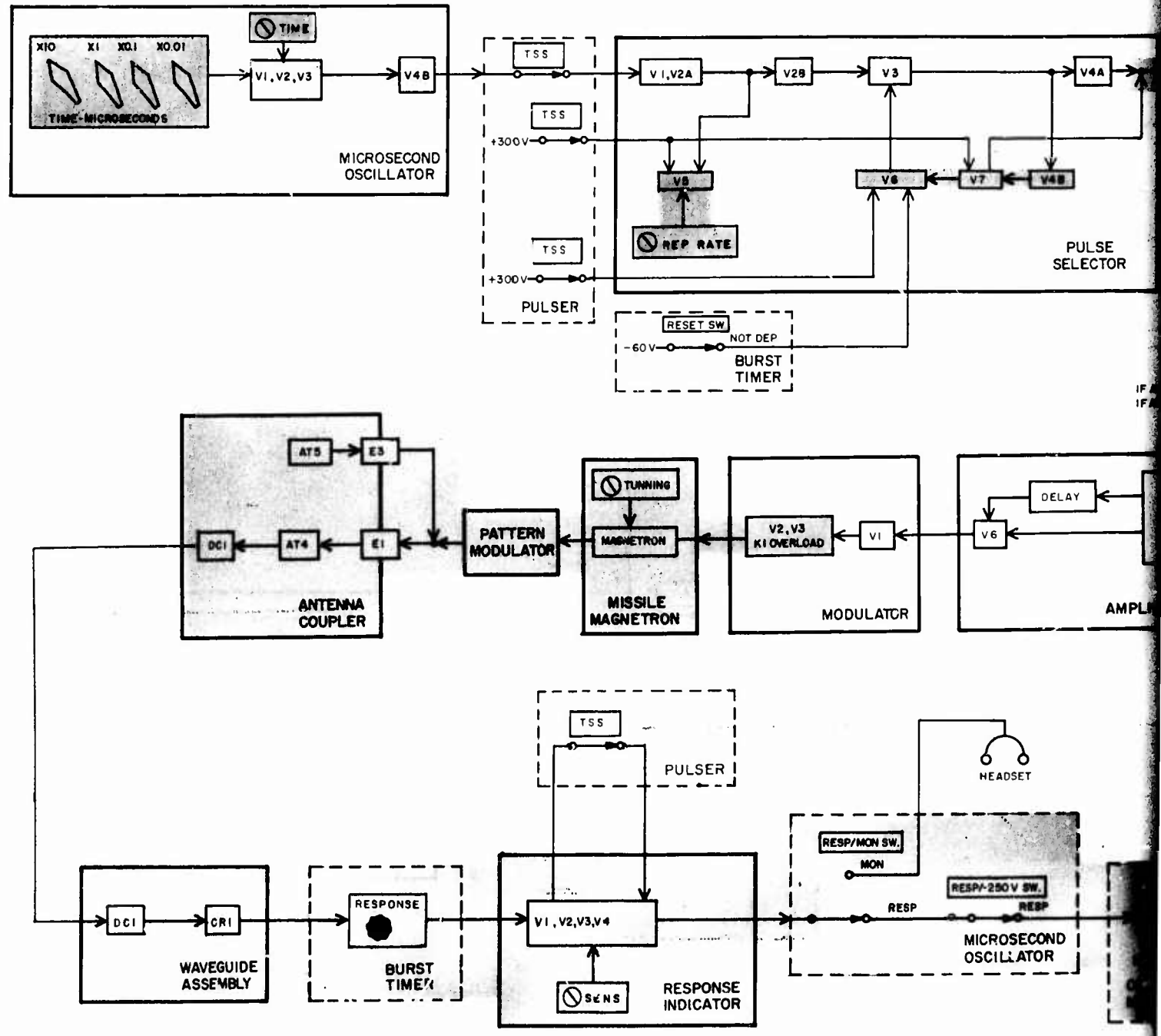
CONFIDENTIAL

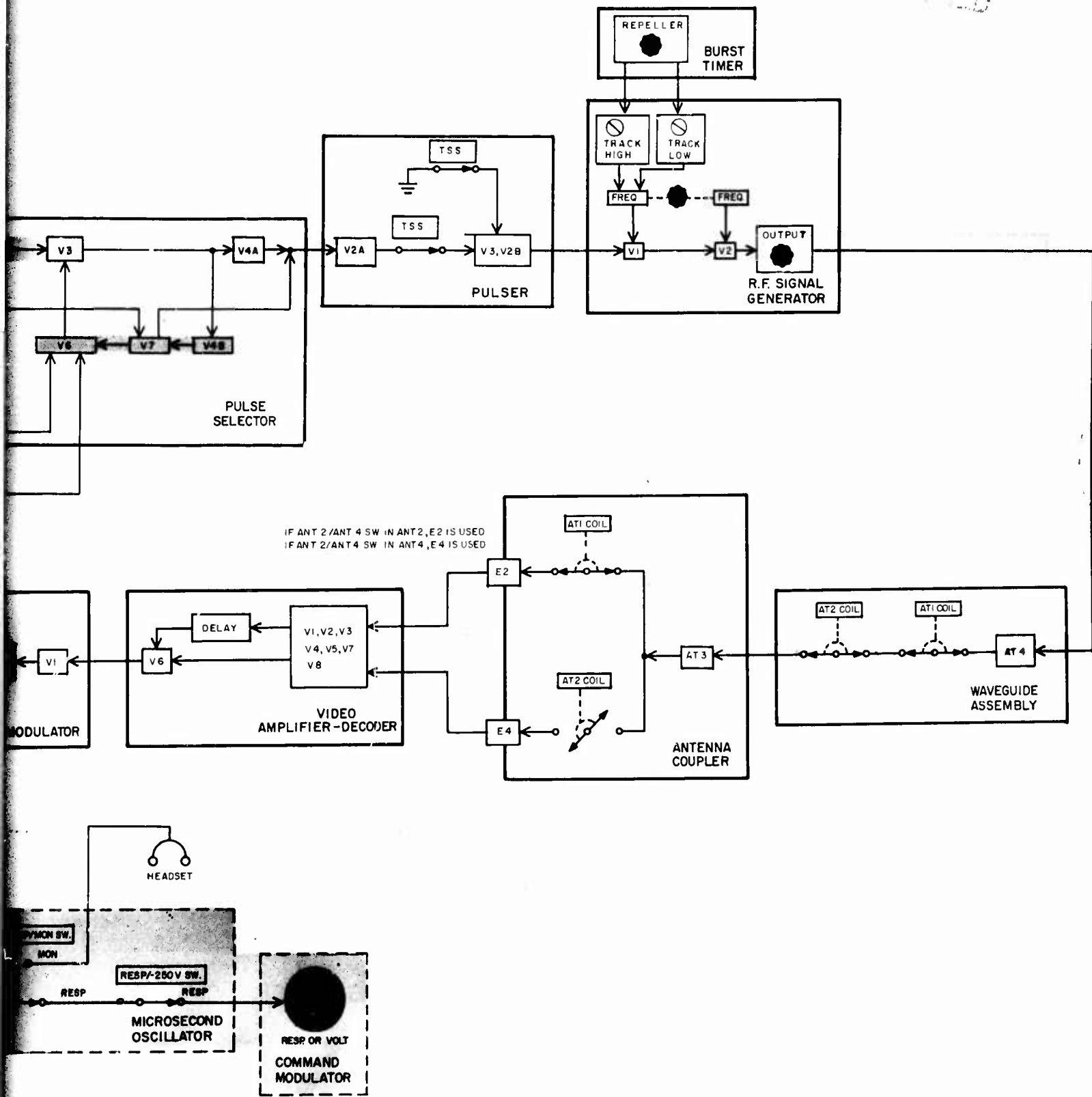


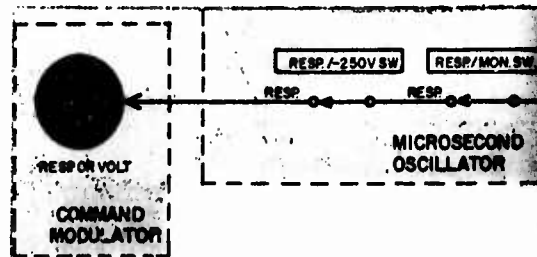
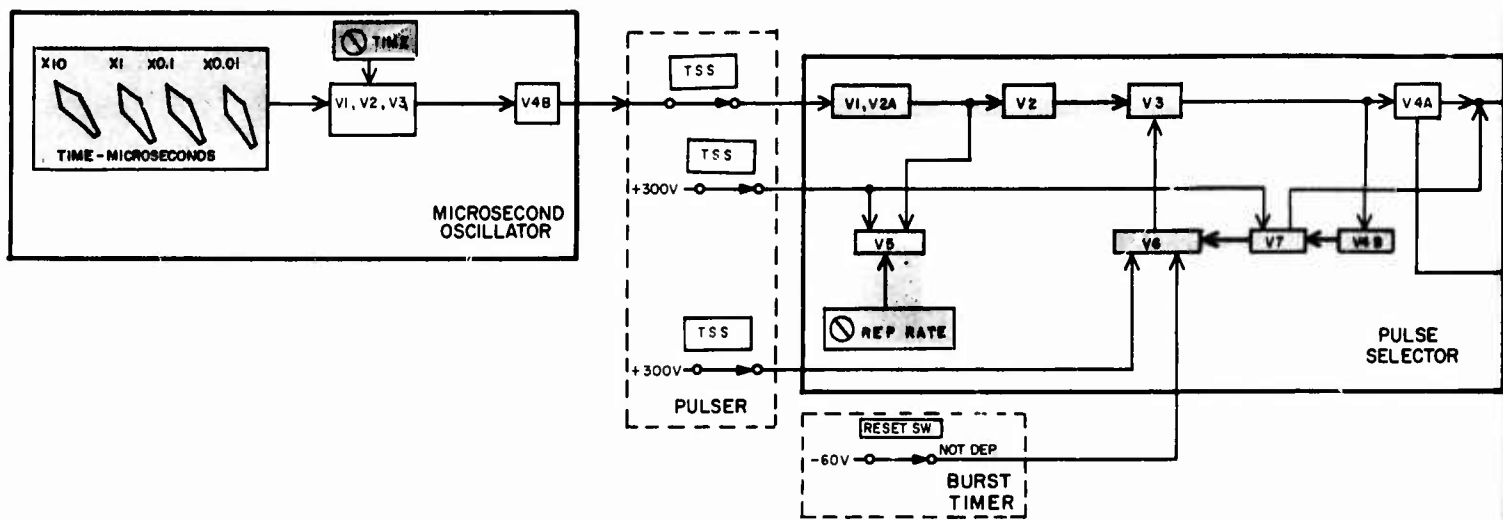
IF ANT 2/ANT 4 SW IN ANT 2, E2 IS USED
IF ANT 2/ANT 4 SW IN ANT 4, E4 IS USED



CONFIDENTIAL

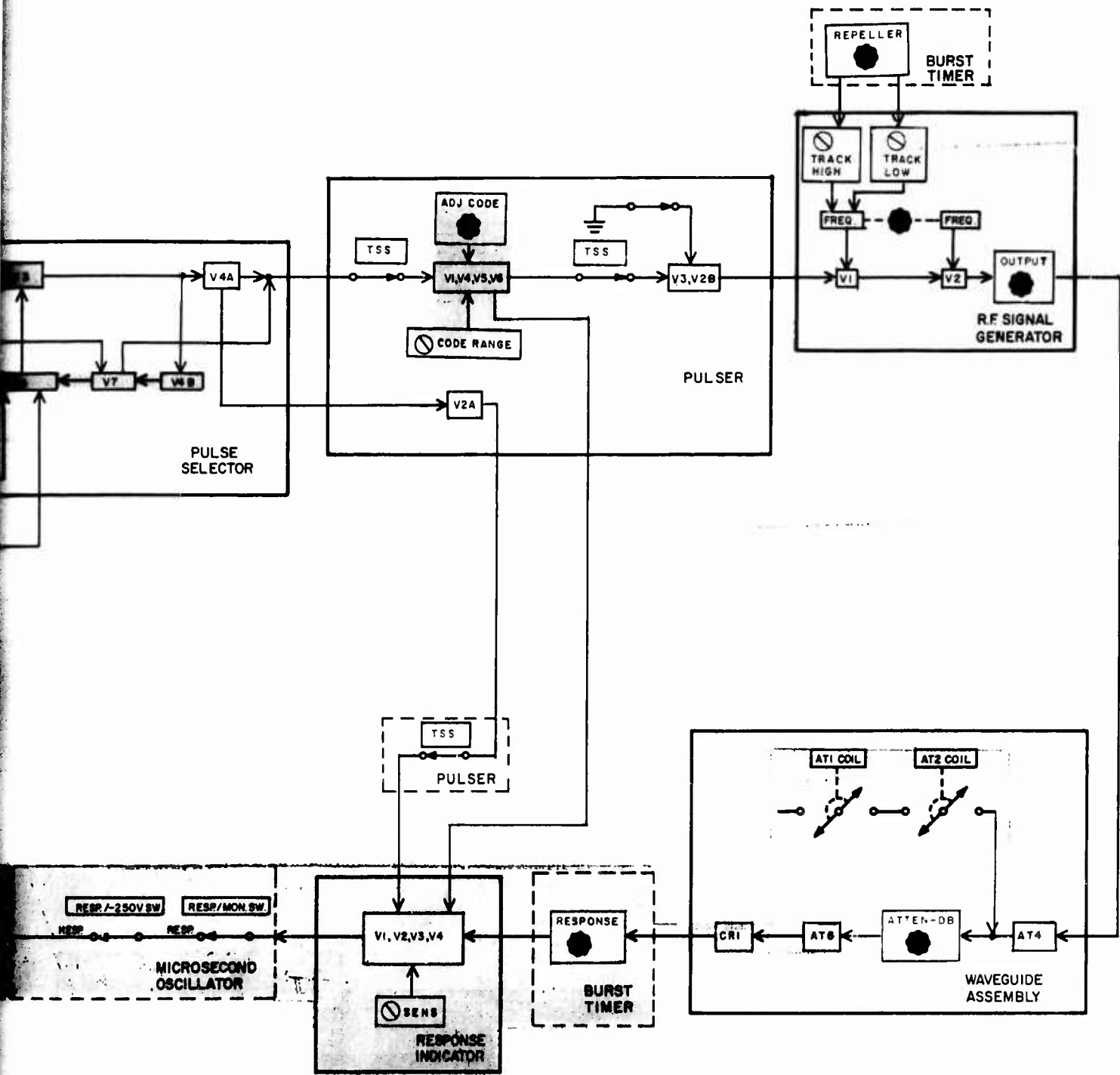






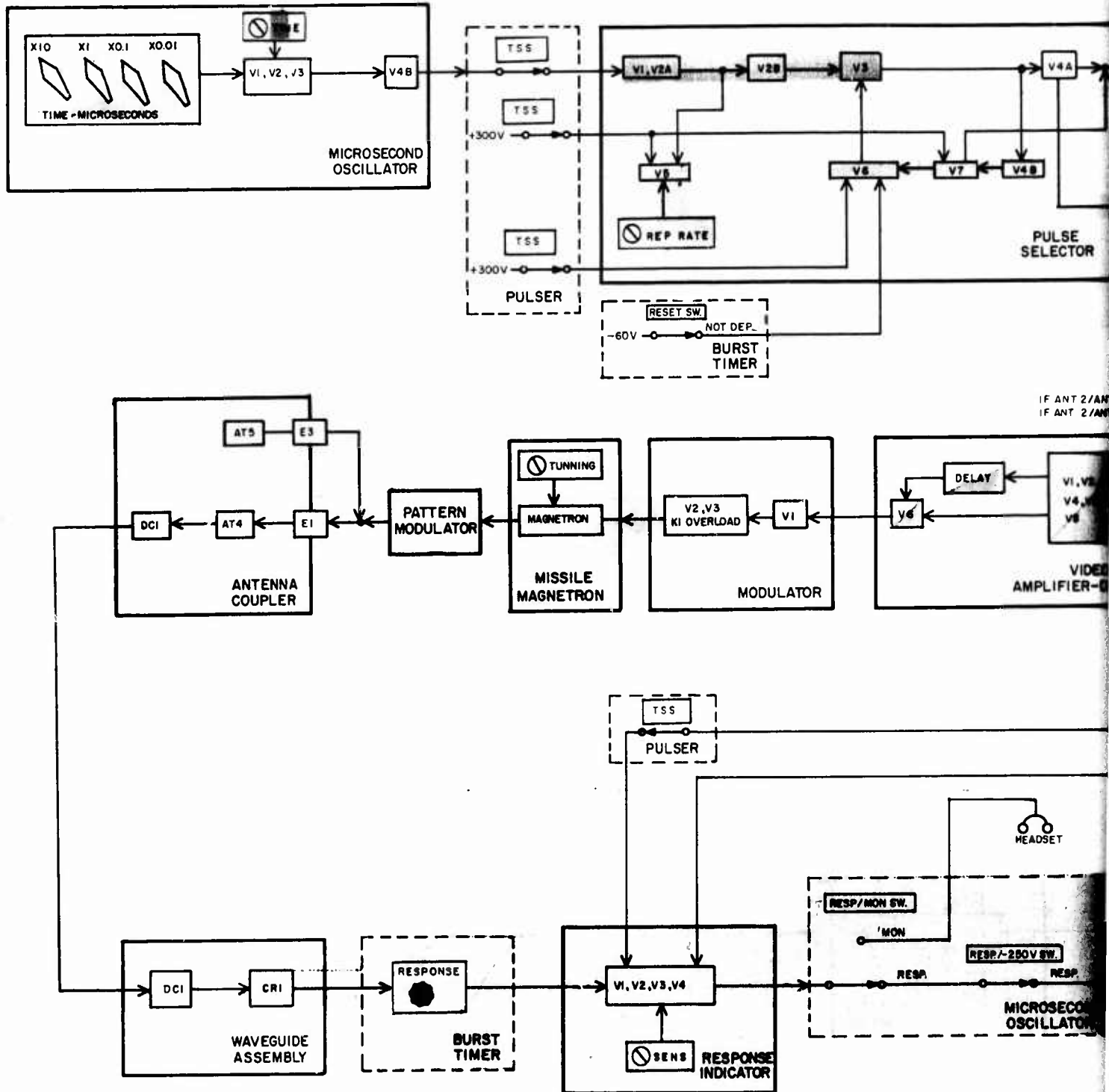
A

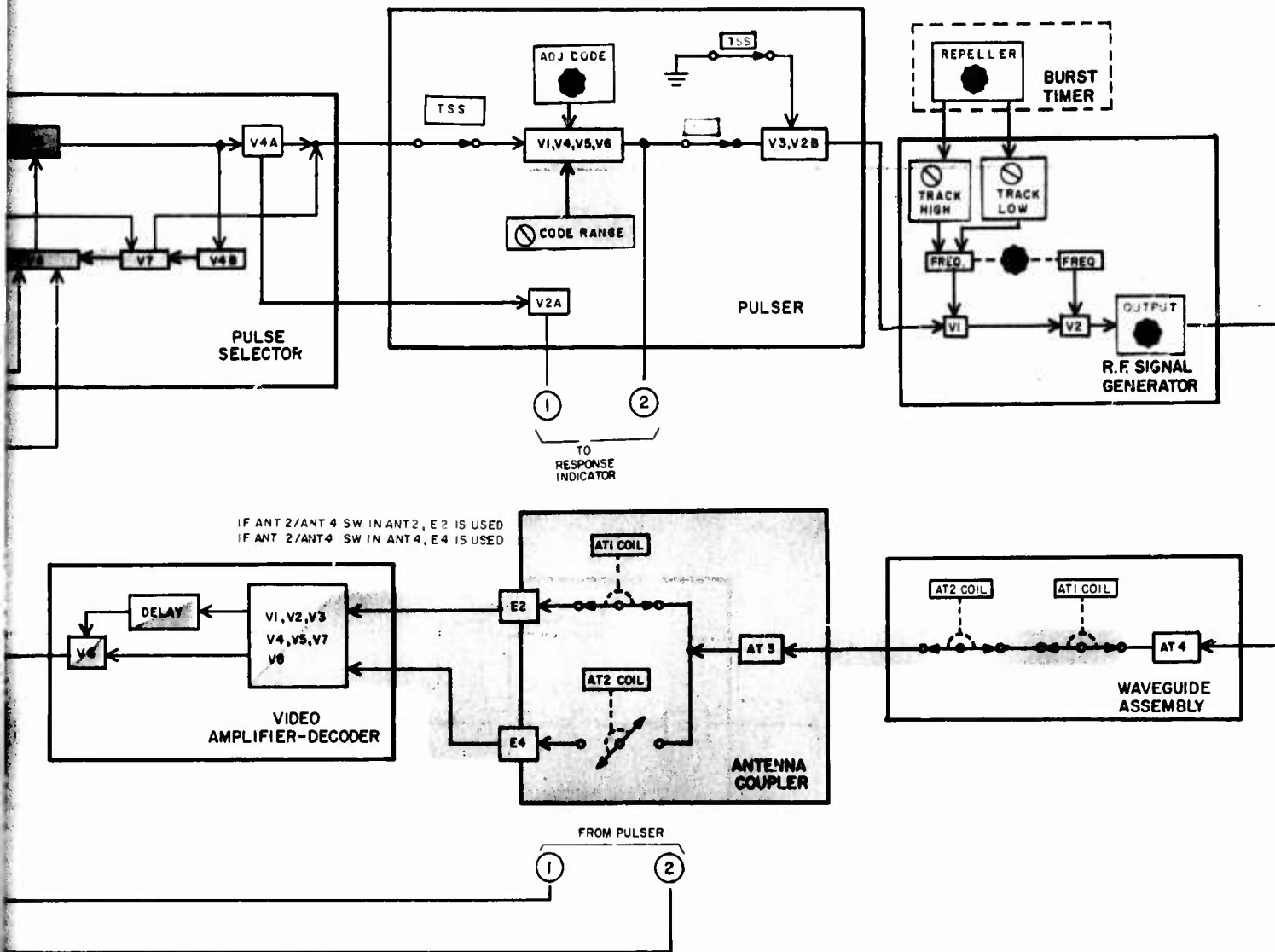
~~CONFIDENTIAL~~



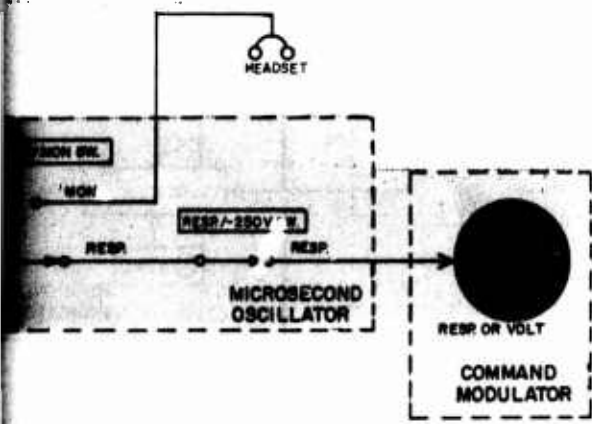
~~CONFIDENTIAL~~

33



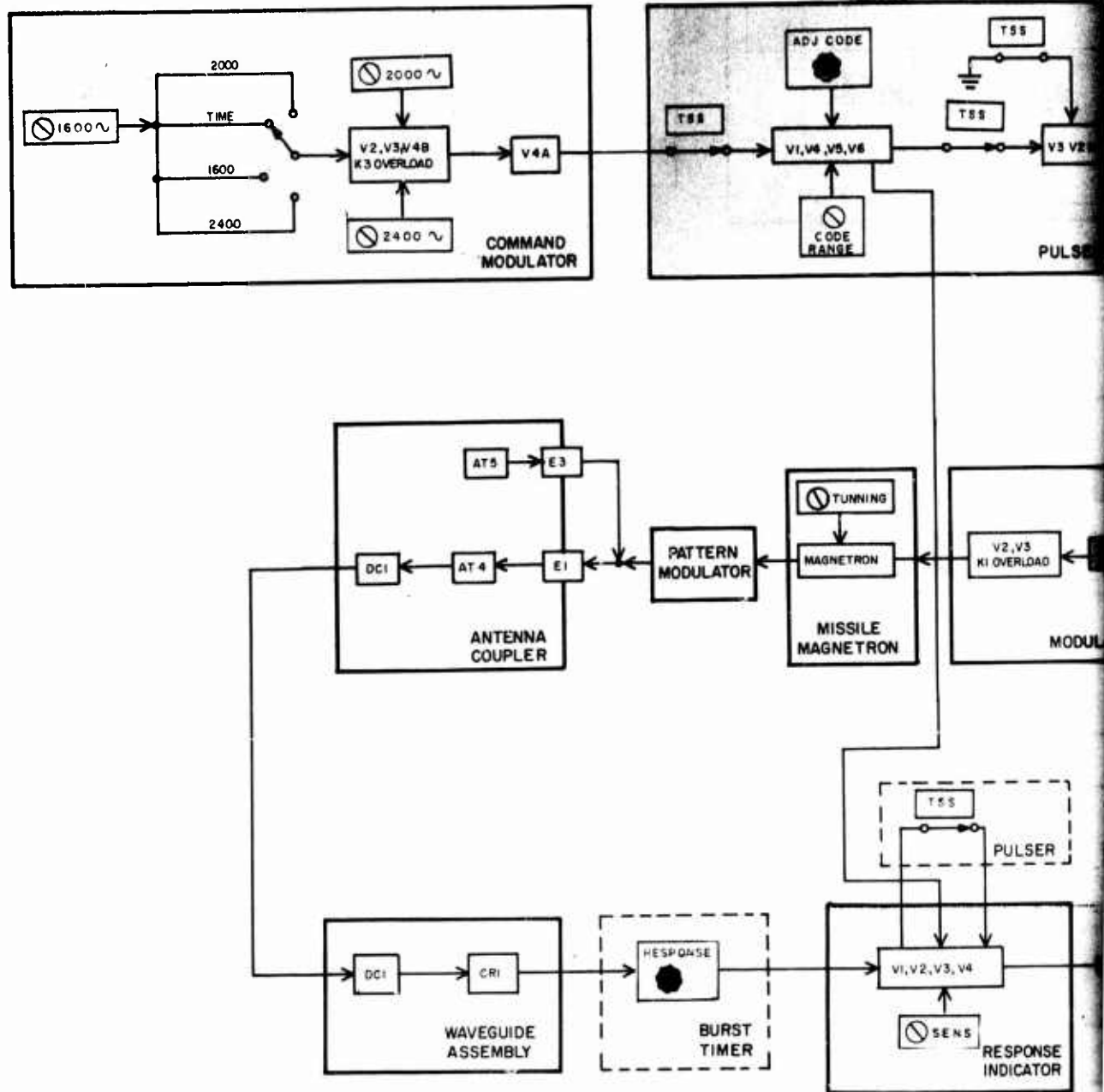


IF ANT 2/ANT 4 SW IN ANT2, E2 IS USED
IF ANT 2/ANT4 SW IN ANT4, E4 IS USED



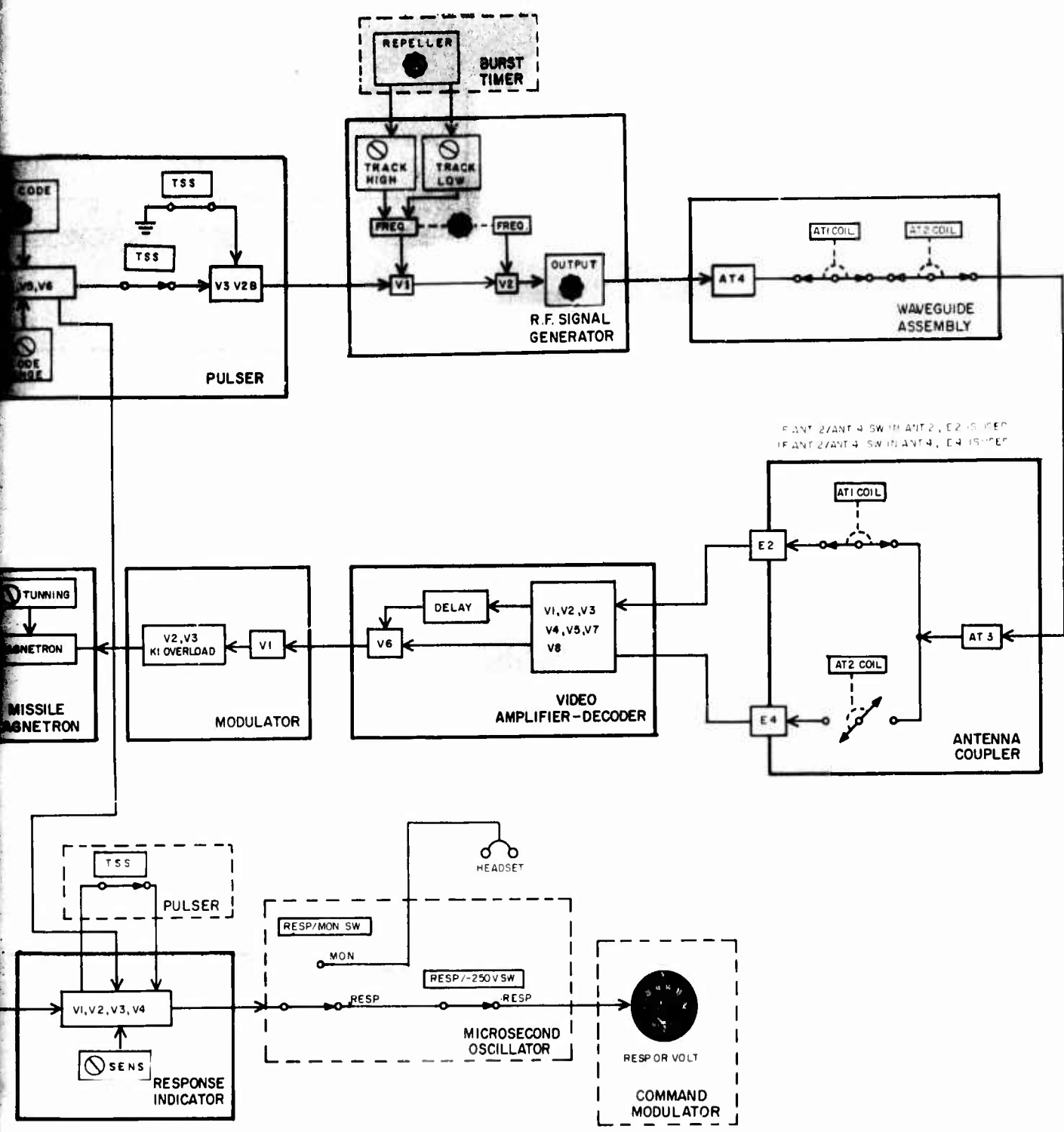
B

34



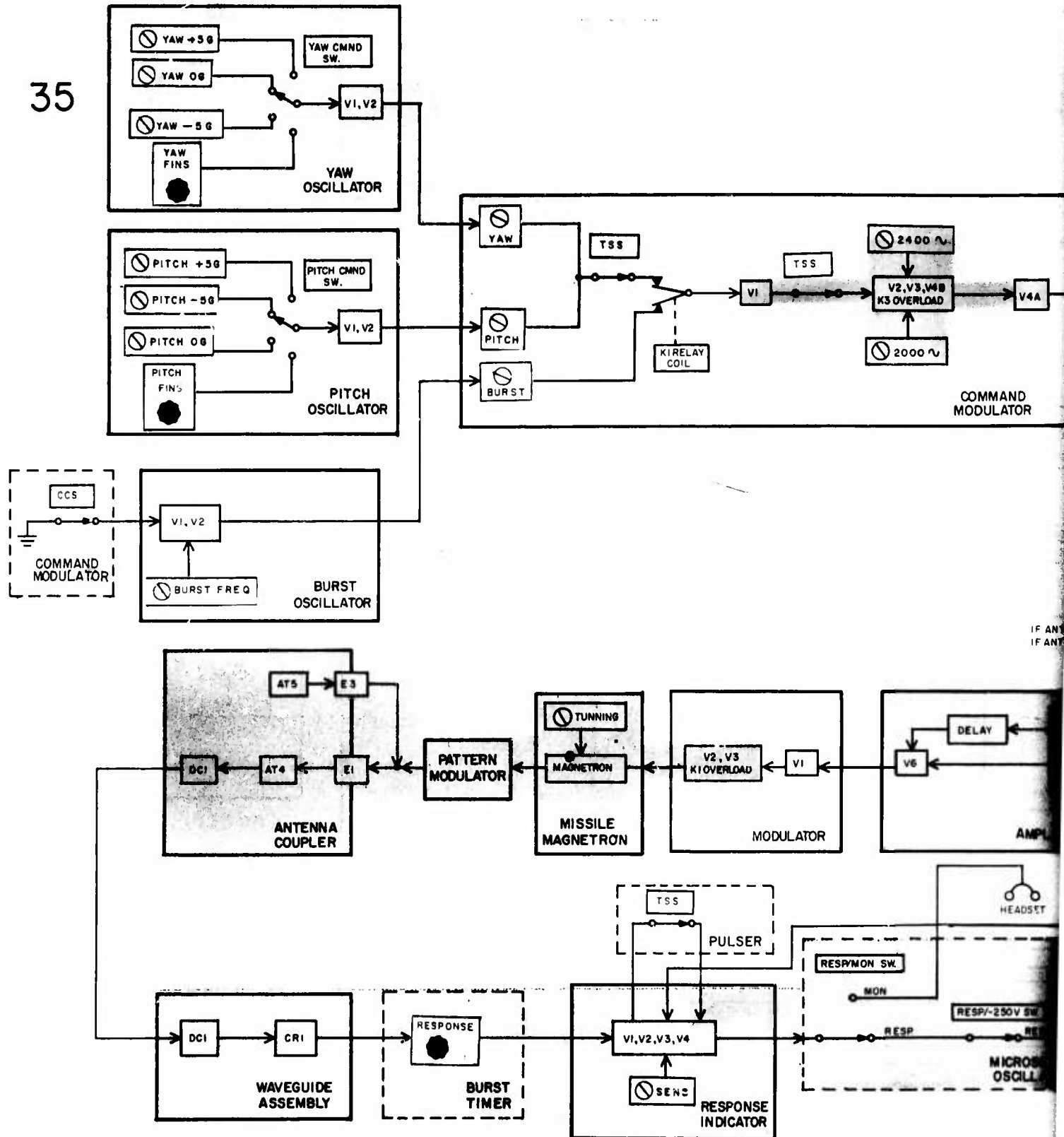
A

~~CONFIDENTIAL~~



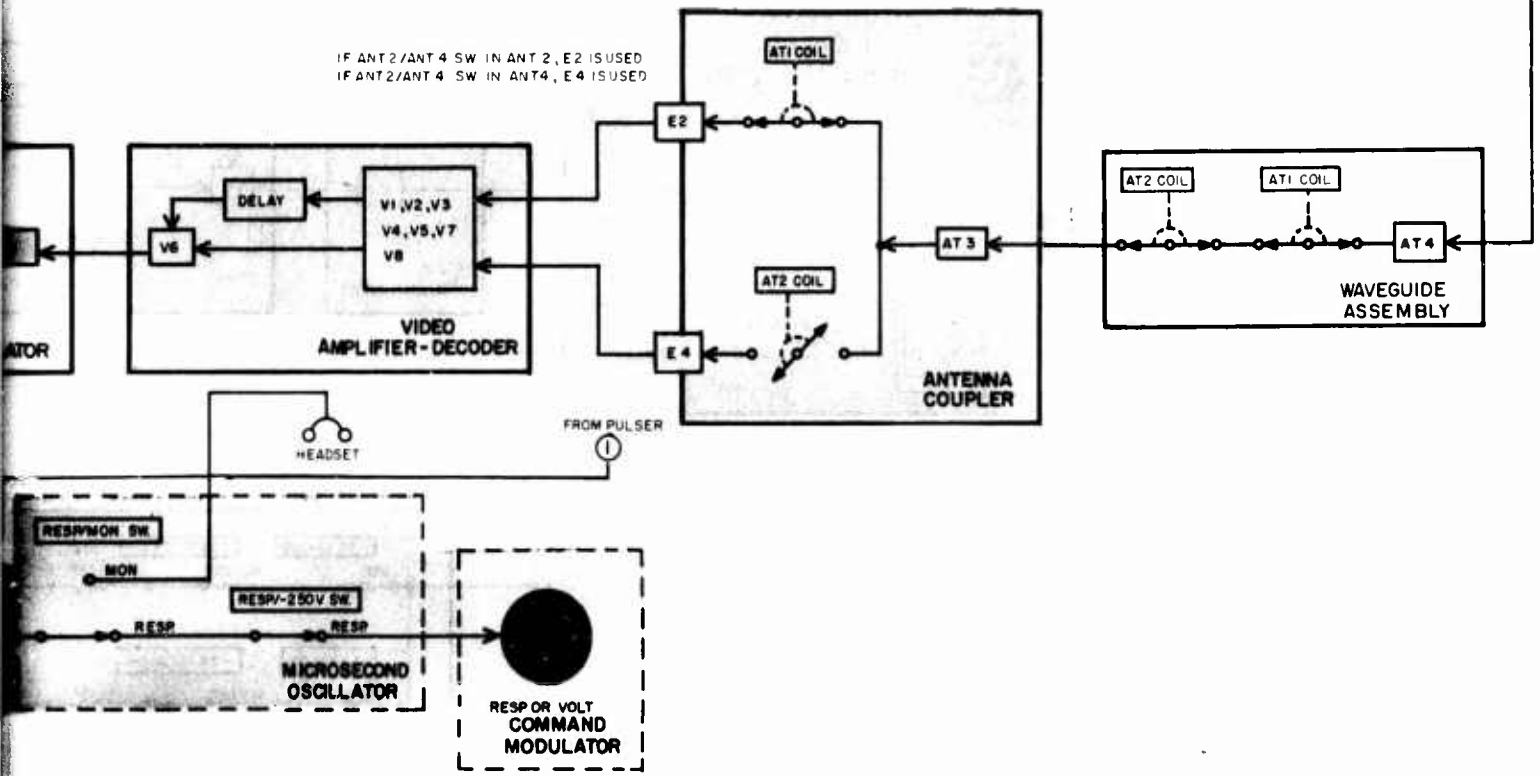
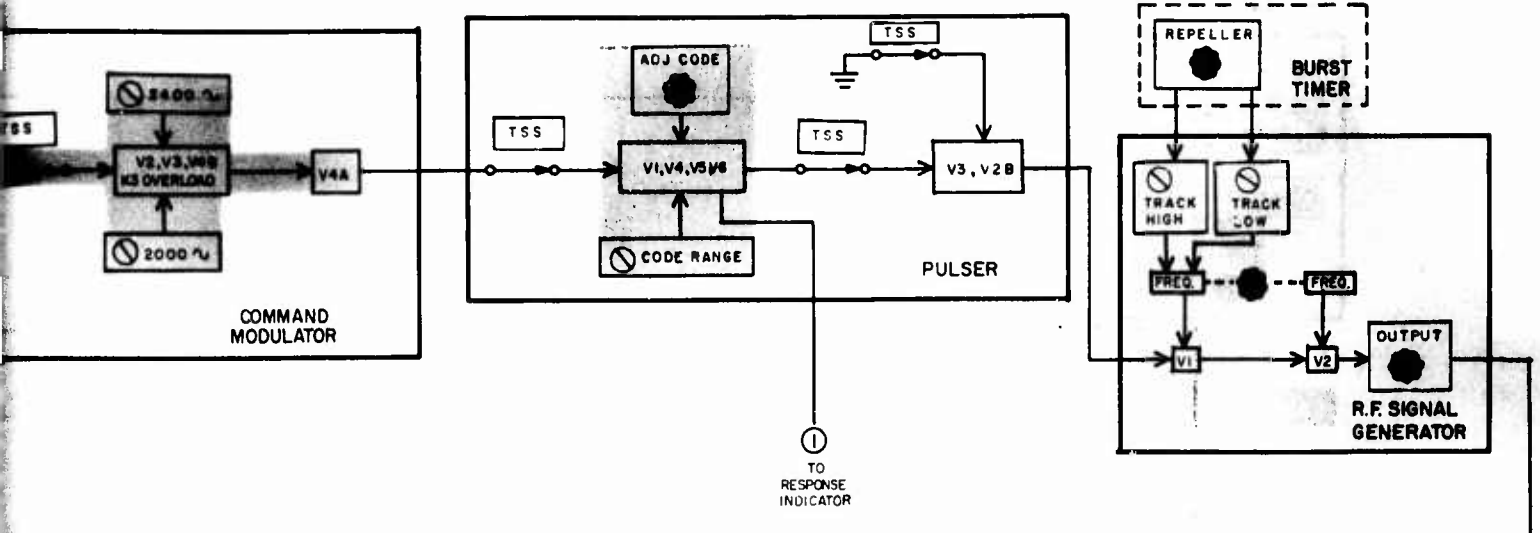
~~CONFIDENTIAL~~

35



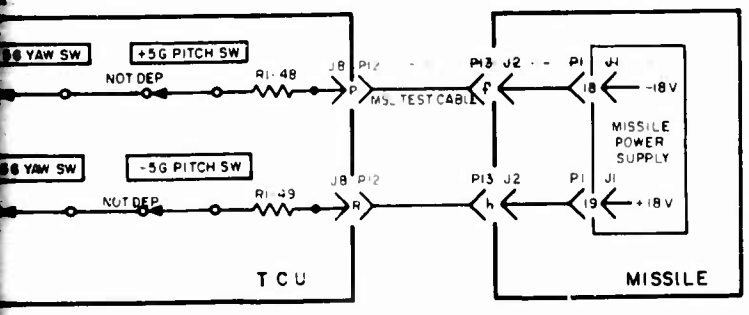
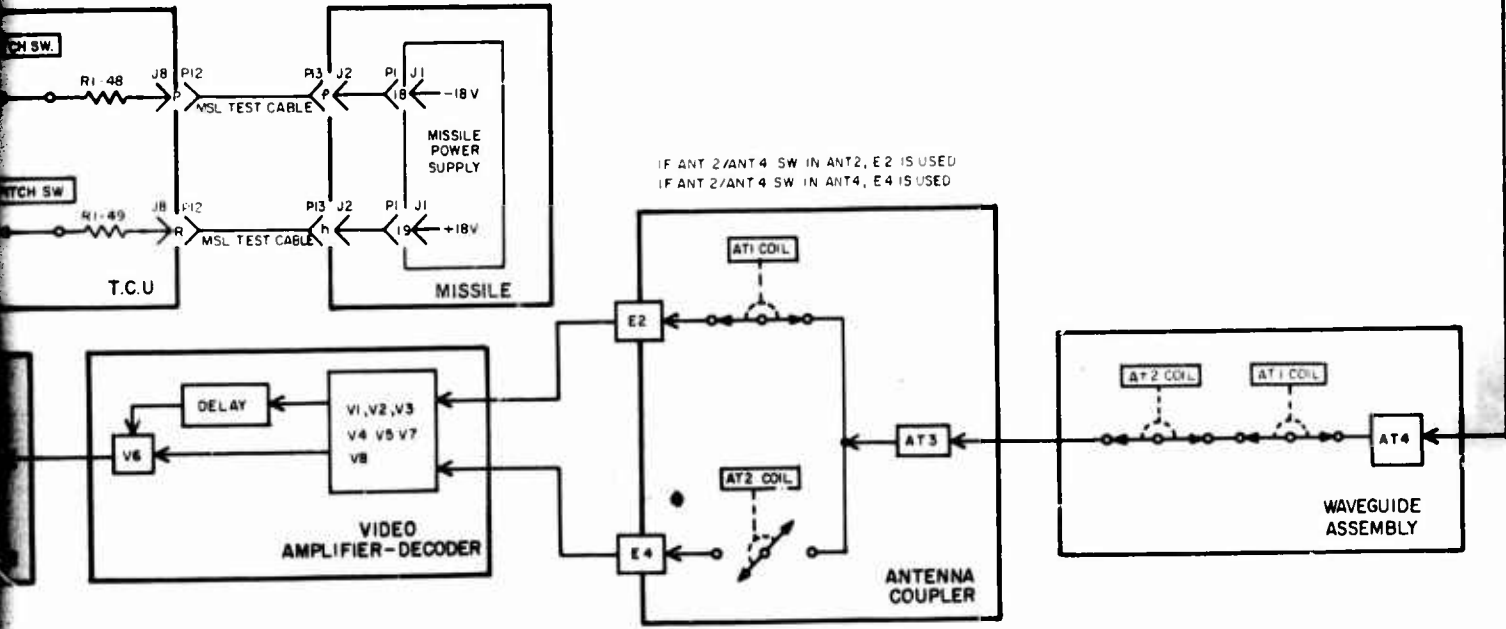
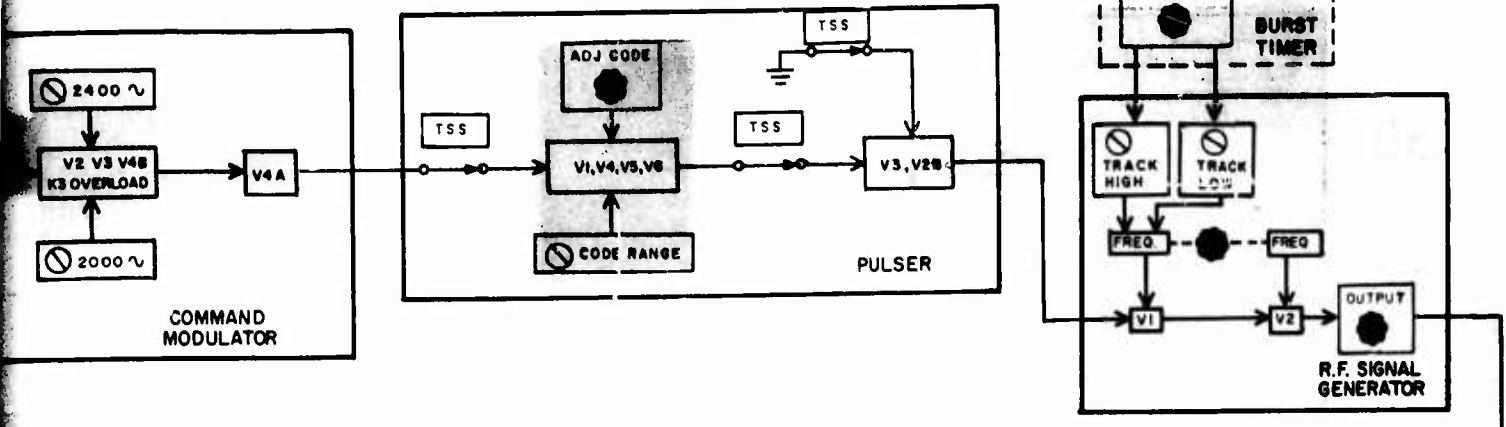
A

UNCLASSIFIED



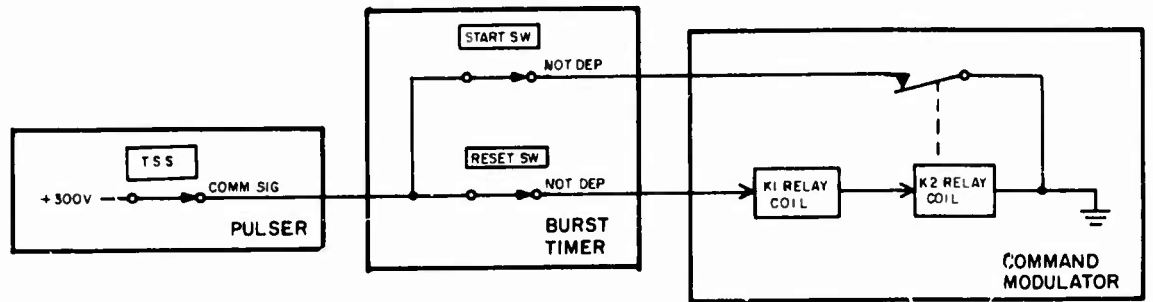
7

CONFIDENTIAL

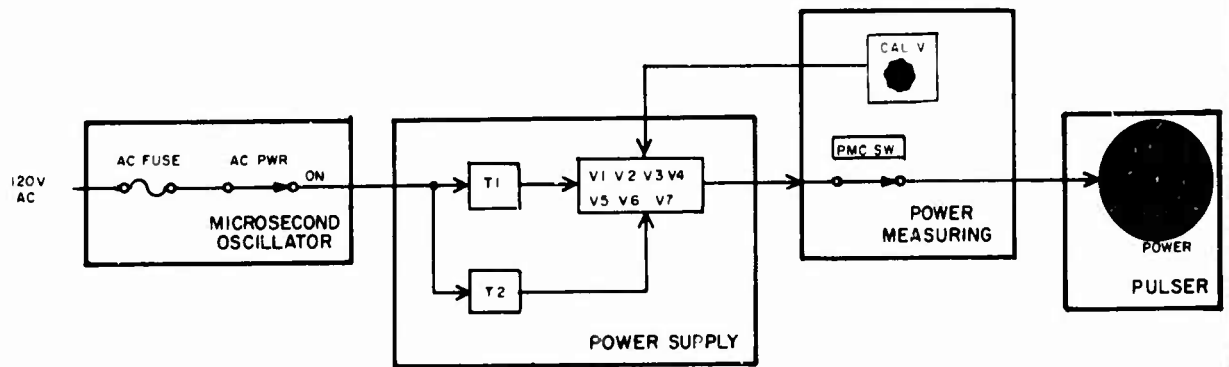


CONFIDENTIAL

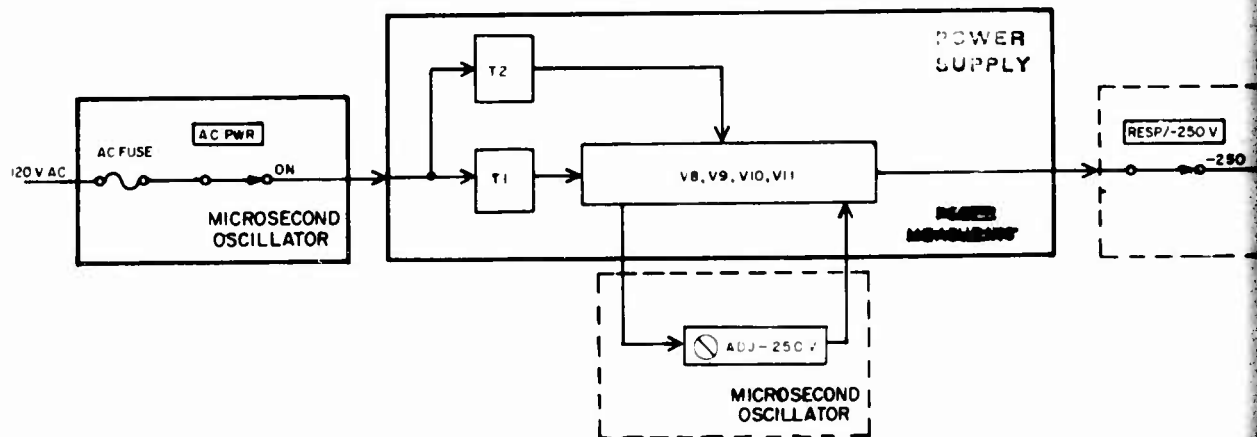
37



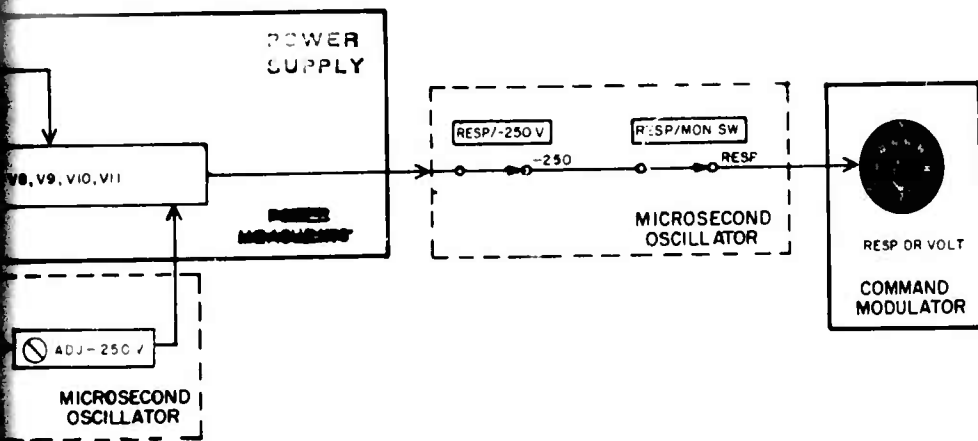
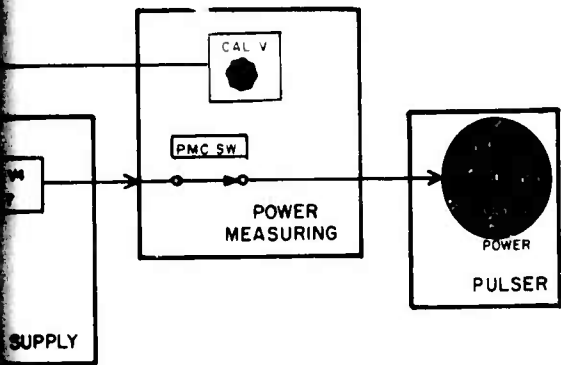
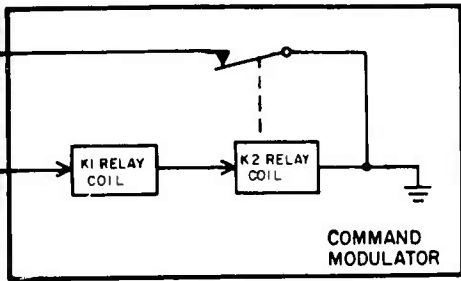
38



39



~~CONFIDENTIAL~~

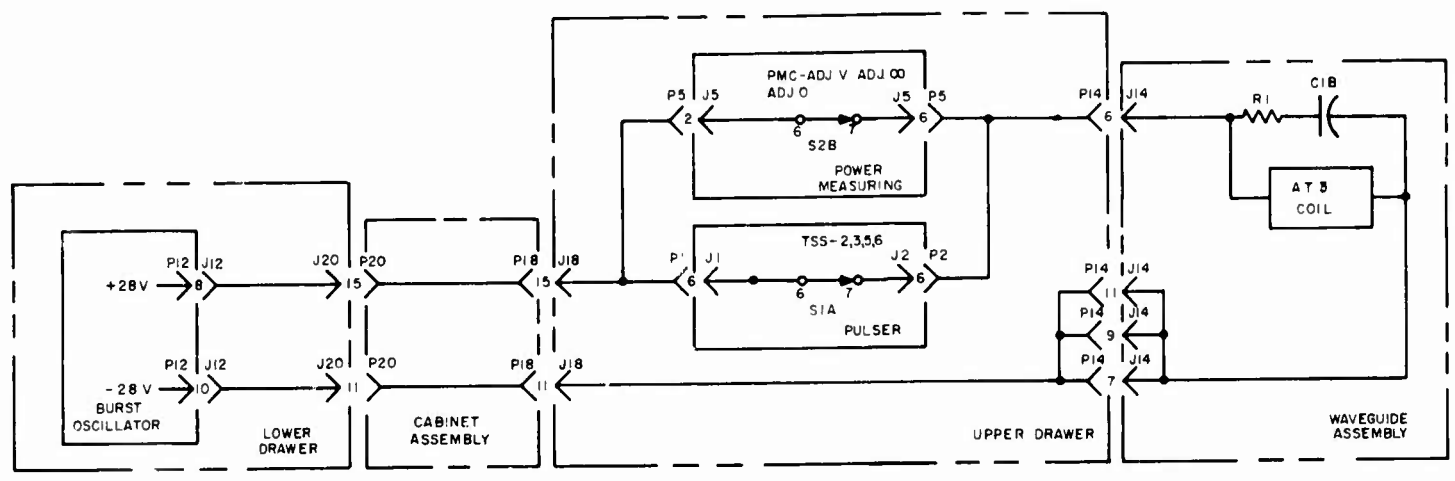


~~CONFIDENTIAL~~

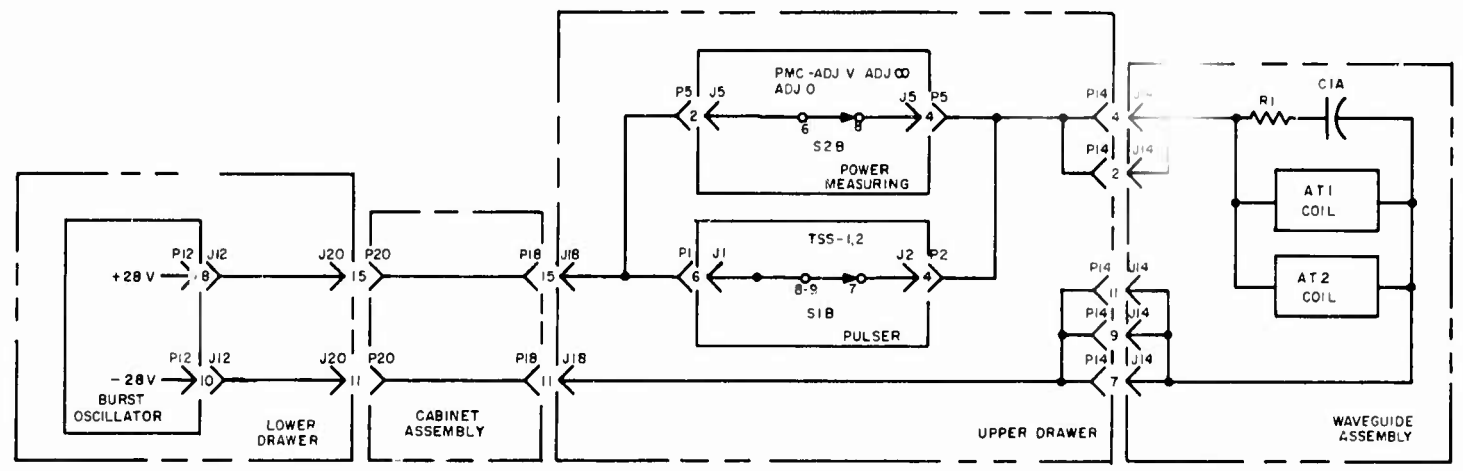
~~CONFIDENTIAL~~

UNCLASSIFIED

40

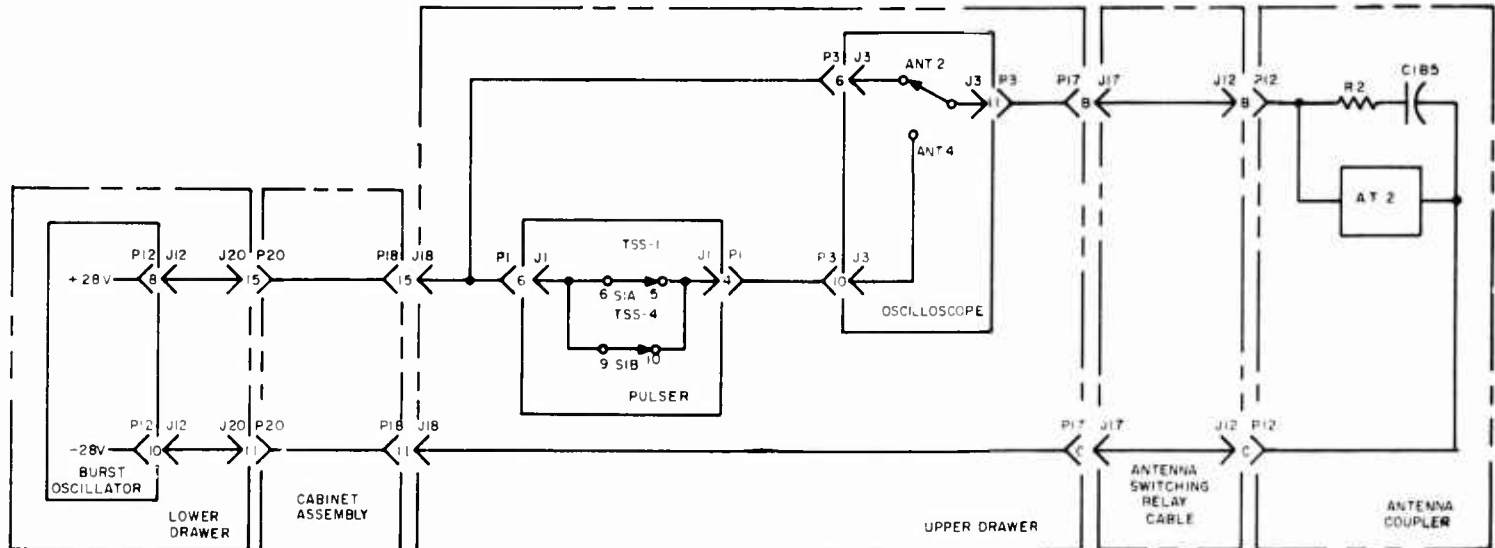
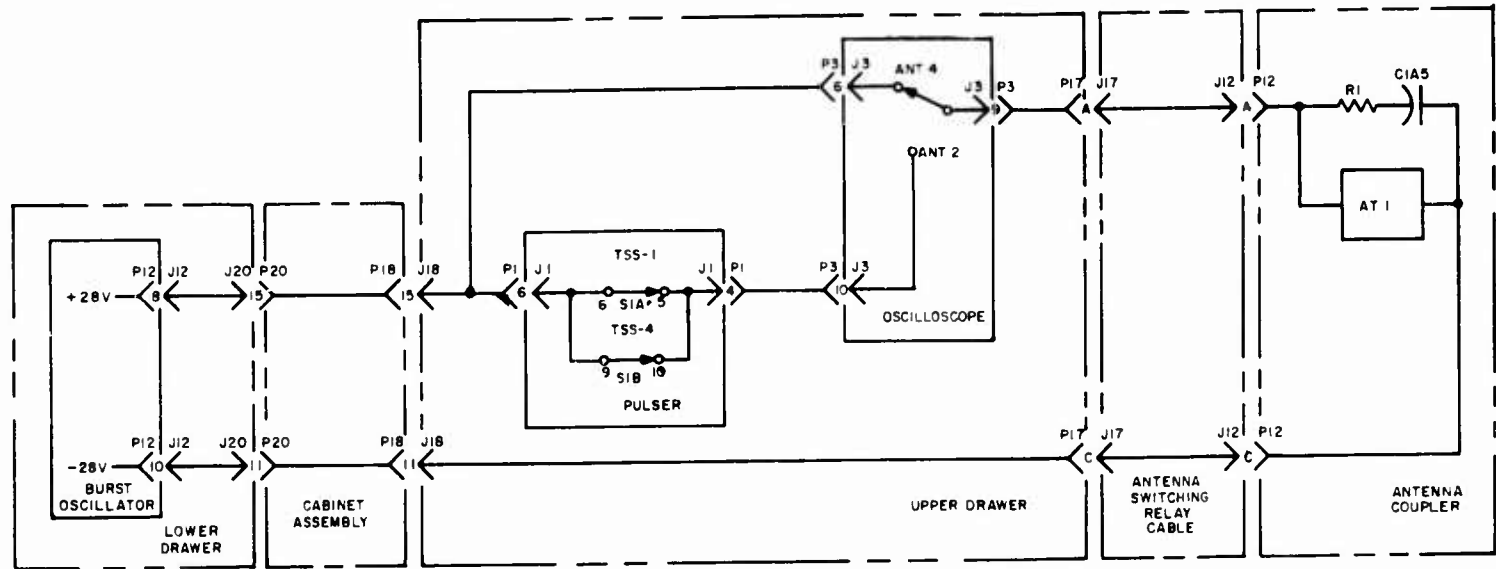


41



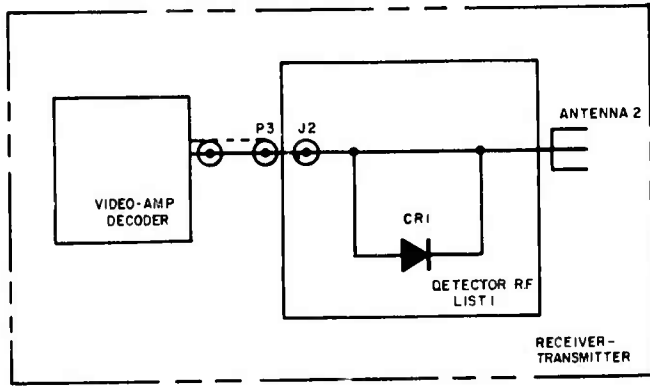
~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

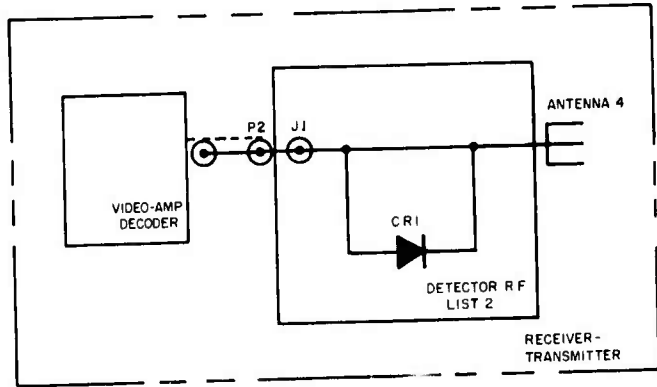


~~CONFIDENTIAL~~

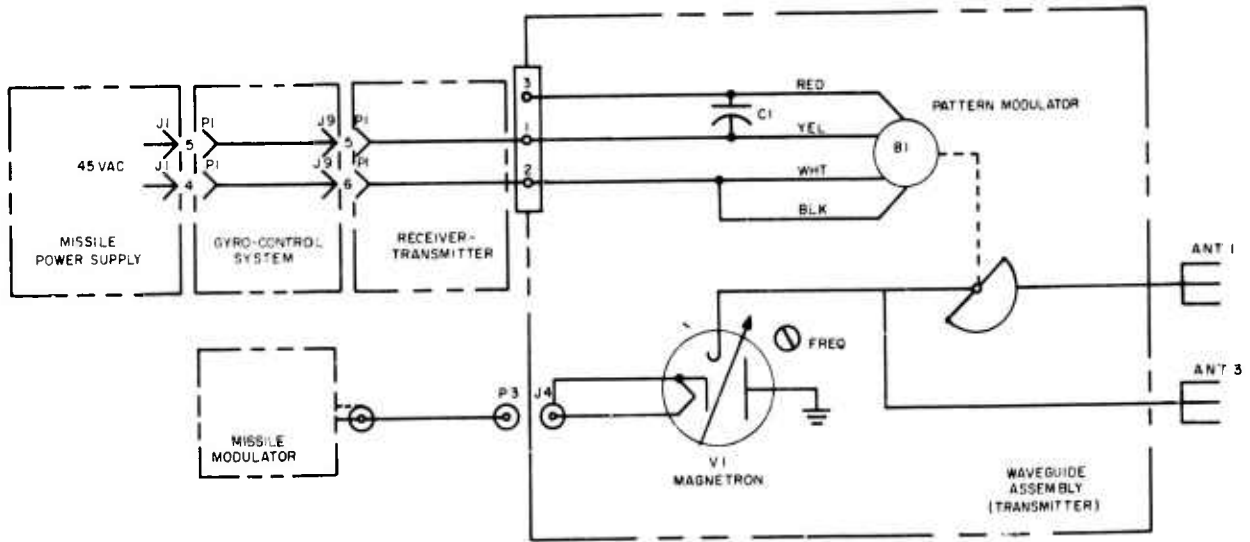
44



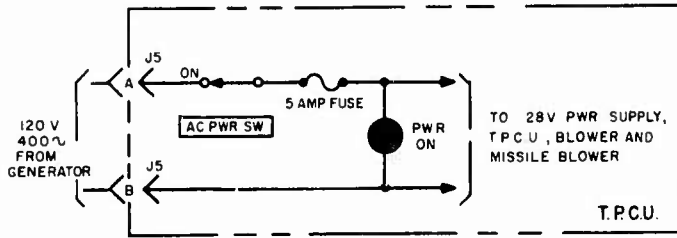
45



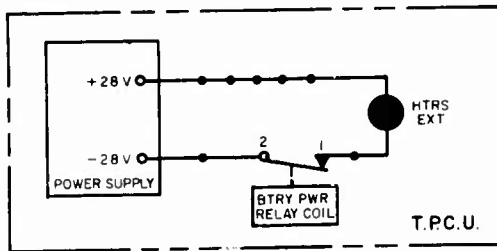
46



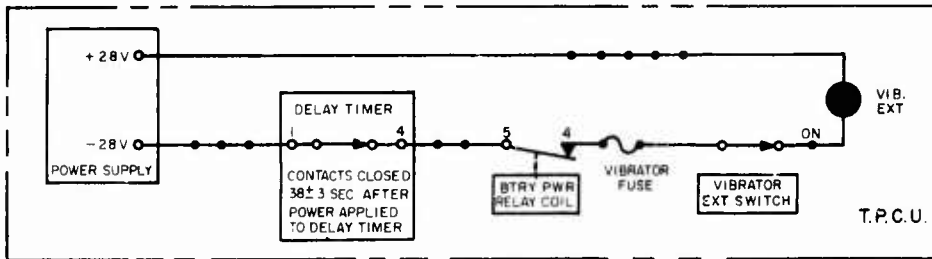
47



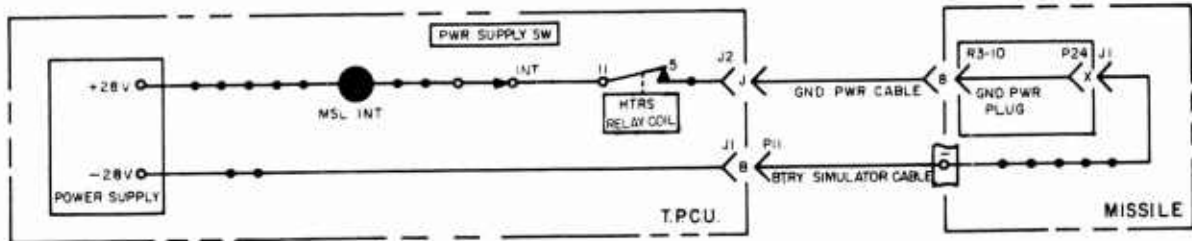
48



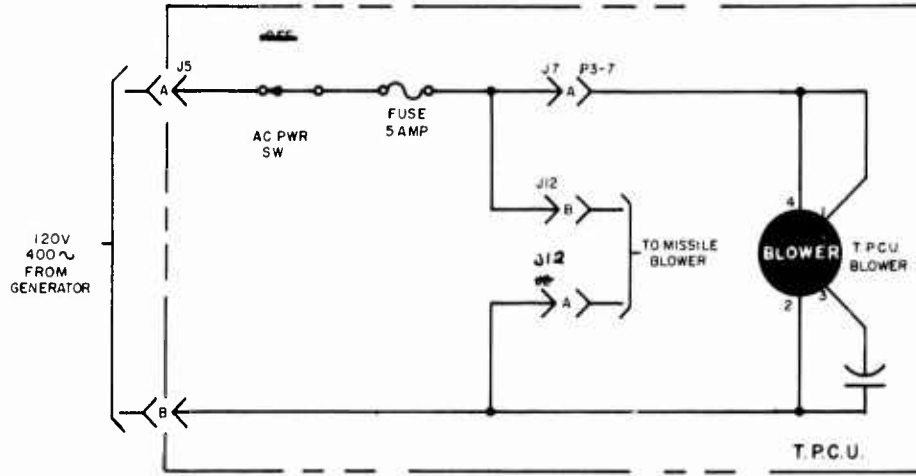
49



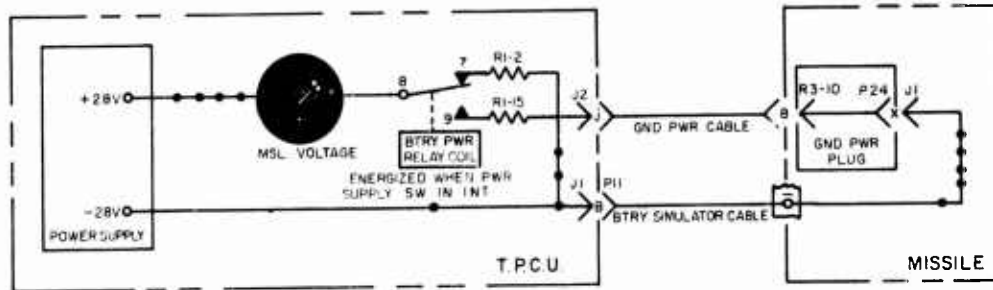
50



51



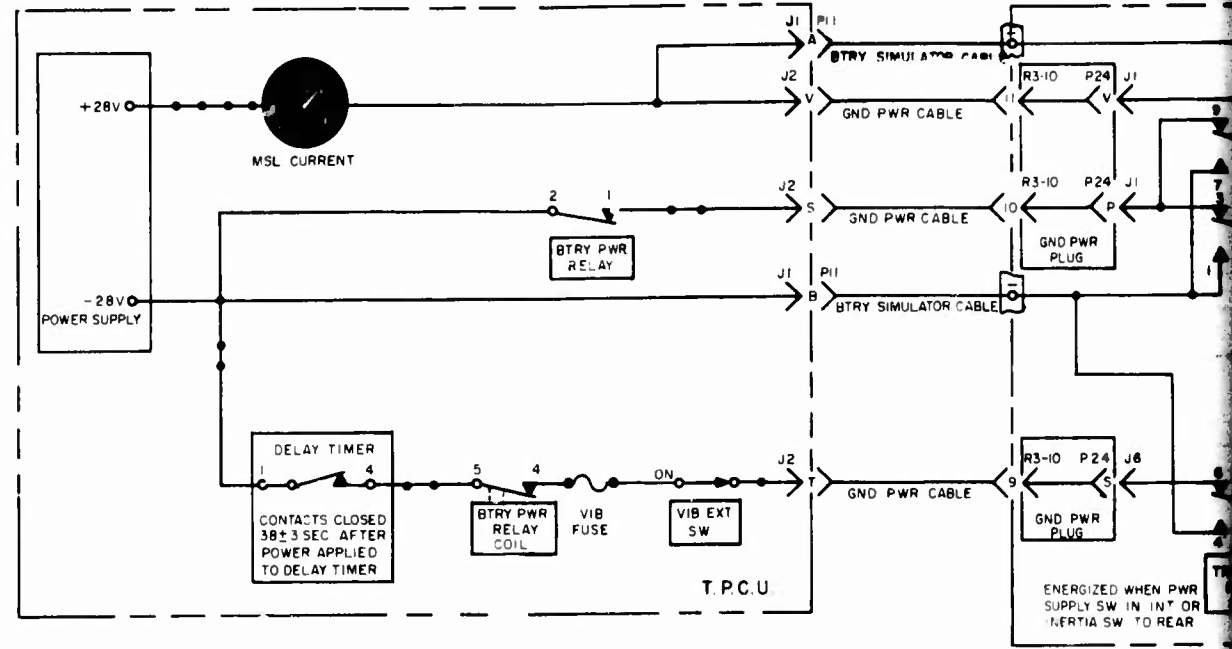
52



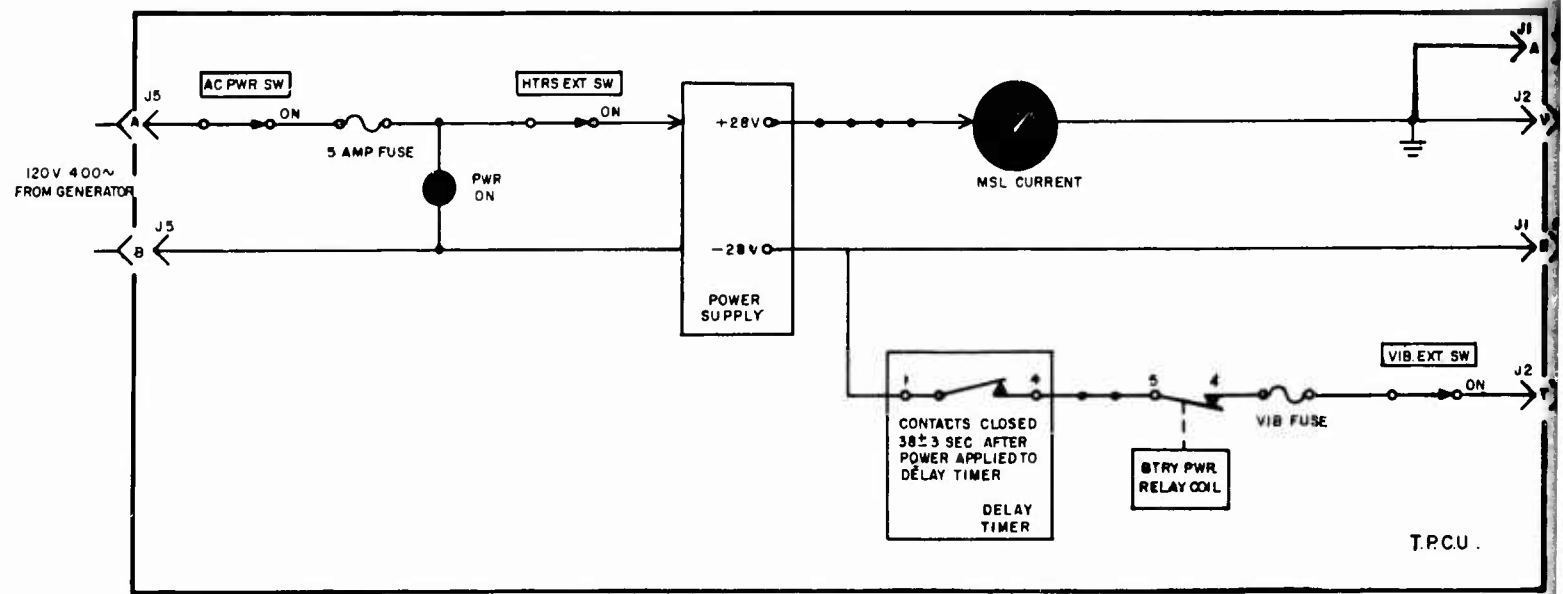
UNCLASSIFIED

~~CONFIDENTIAL~~

53

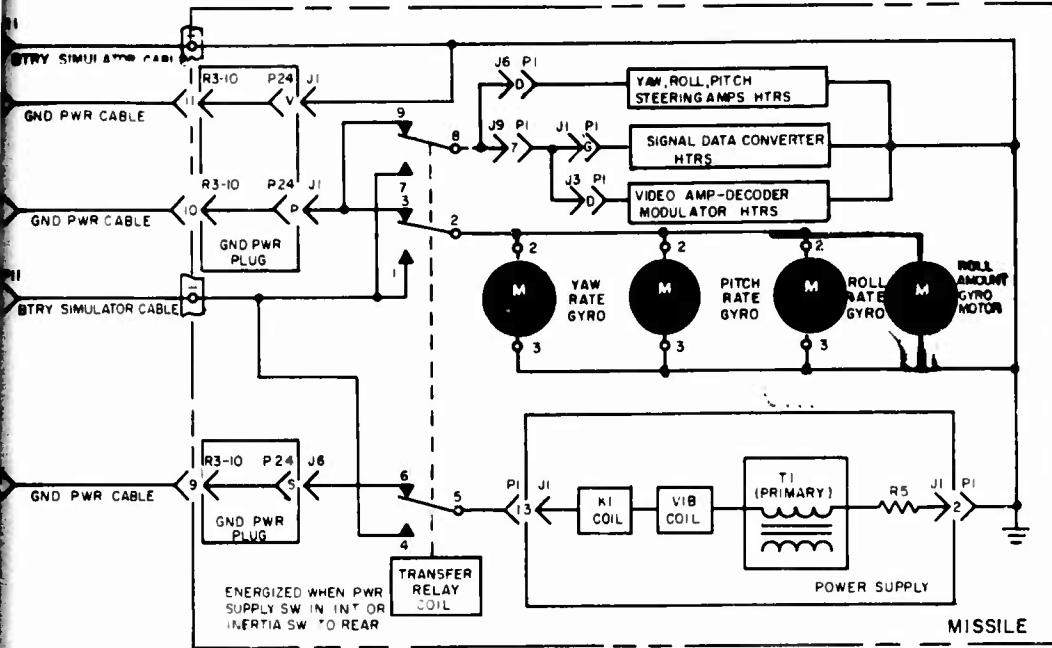


54

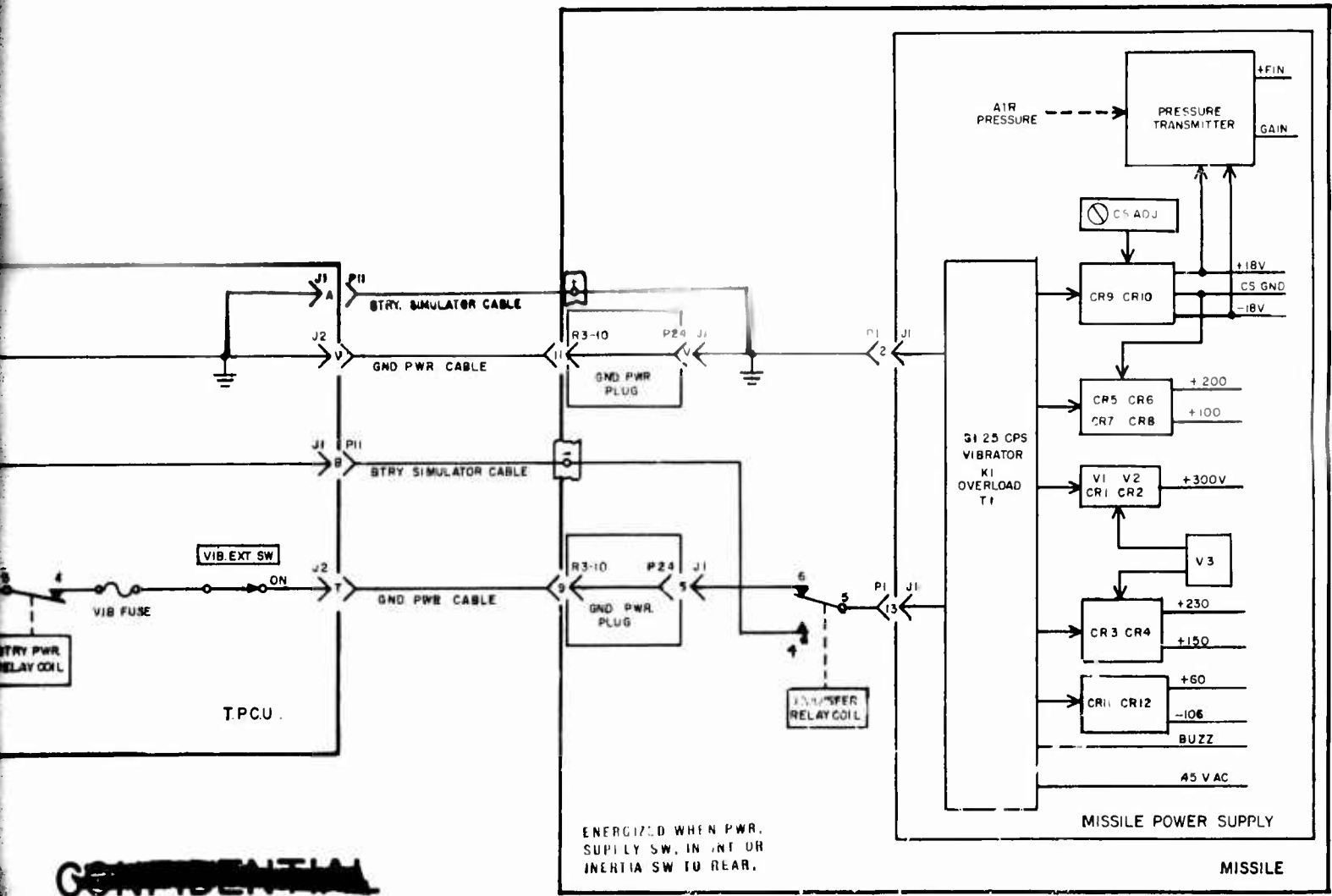


CONFIDENTIAL

A



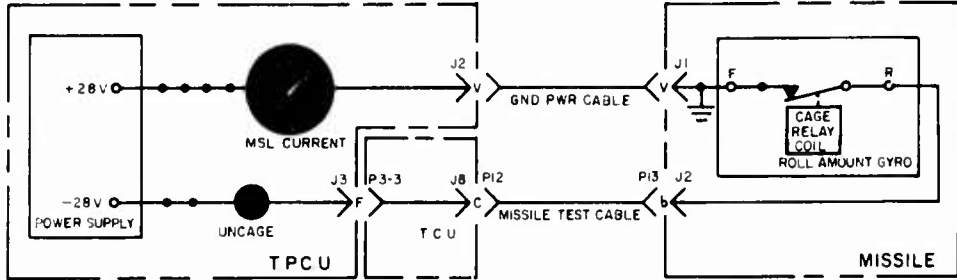
MISSILE



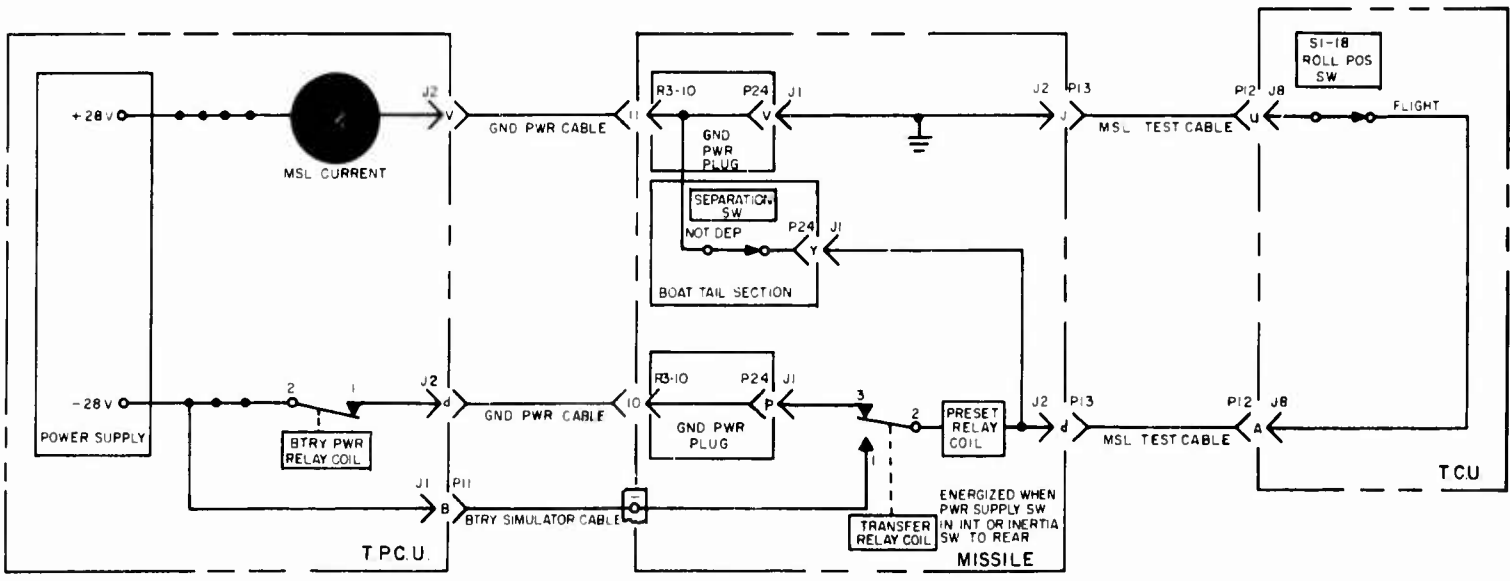
MISSILE

~~CONFIDENTIAL~~

55

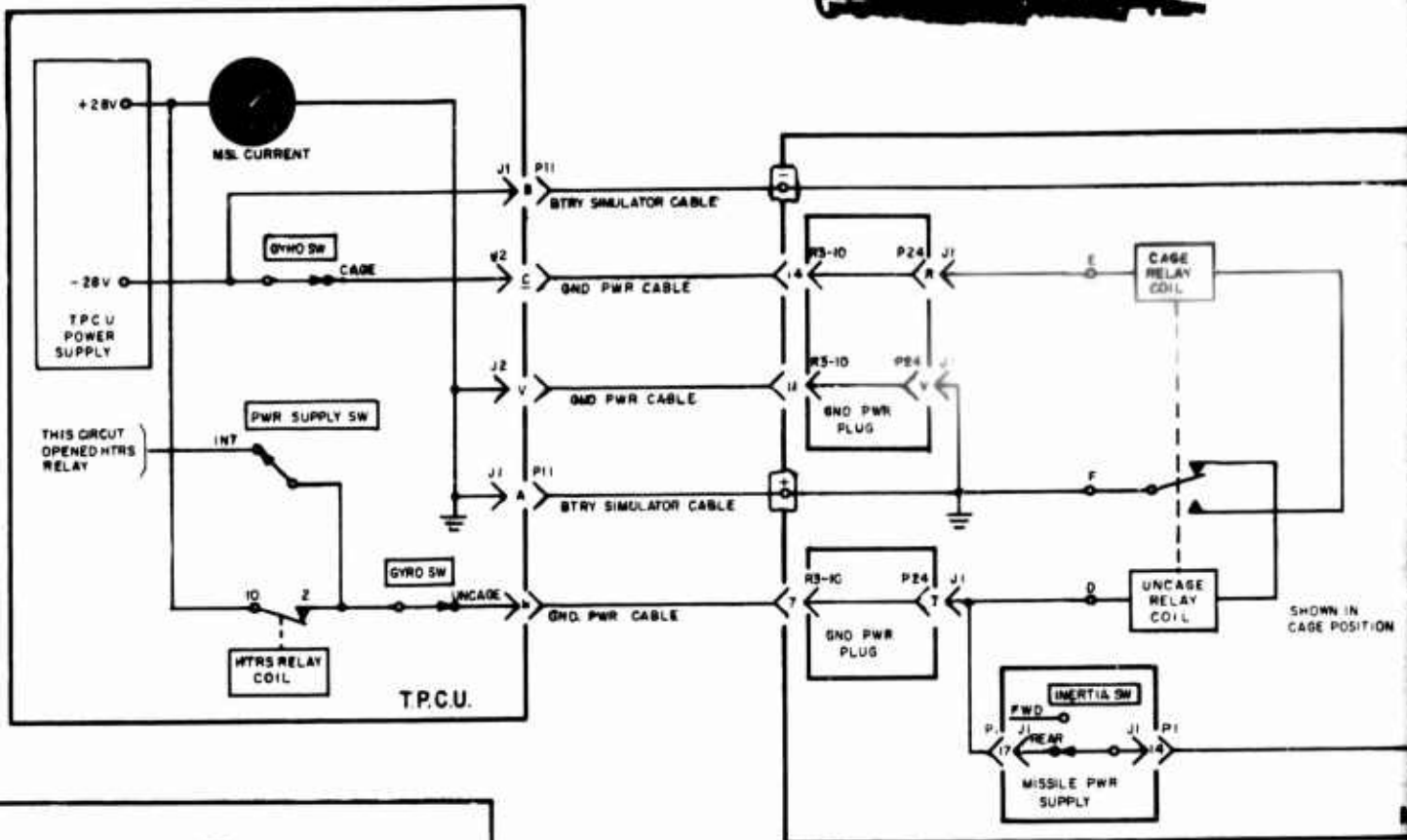


56

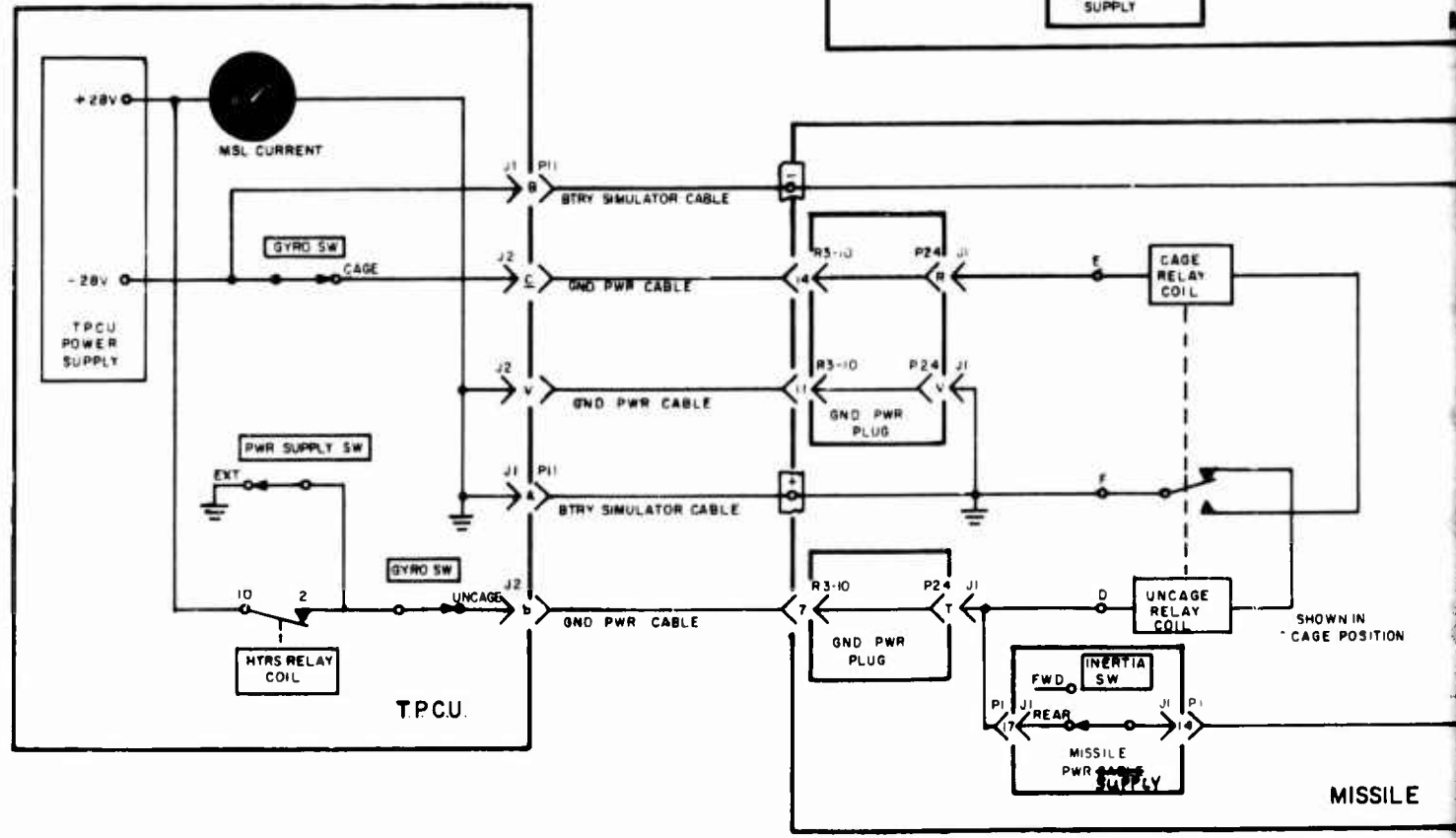


~~CONFIDENTIAL~~

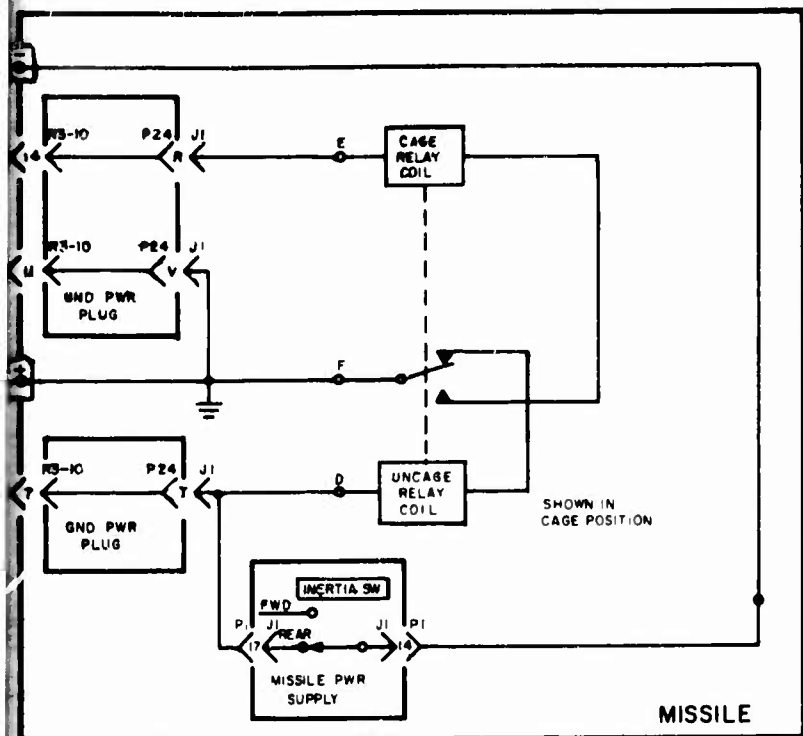
57



58

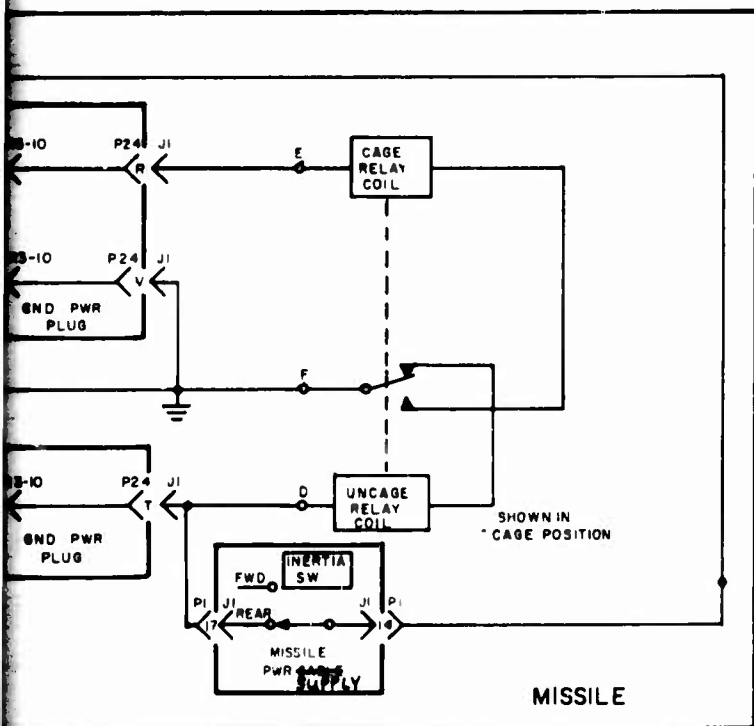


~~CONFIDENTIAL~~



NOTE

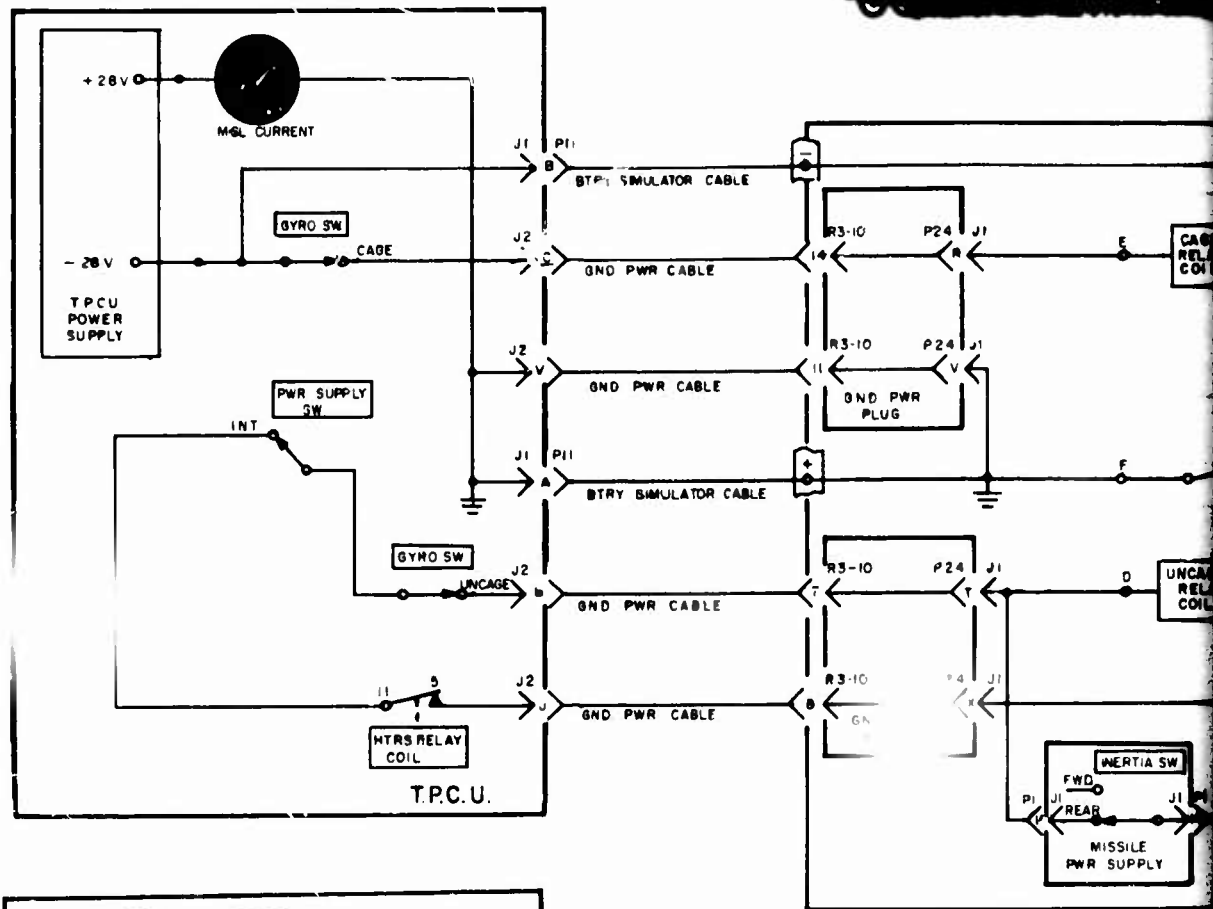
SHOWN IN CAGE POSITION. CAGE RELAY MECHANICALLY LOCKED WHEN ENERGIZED. ENERGIZING UNCAGE RELAY RELEASES LOCK AND ALLOWS CAGE RELAY TO RETURN TO DE-ENERGIZED POSITION.



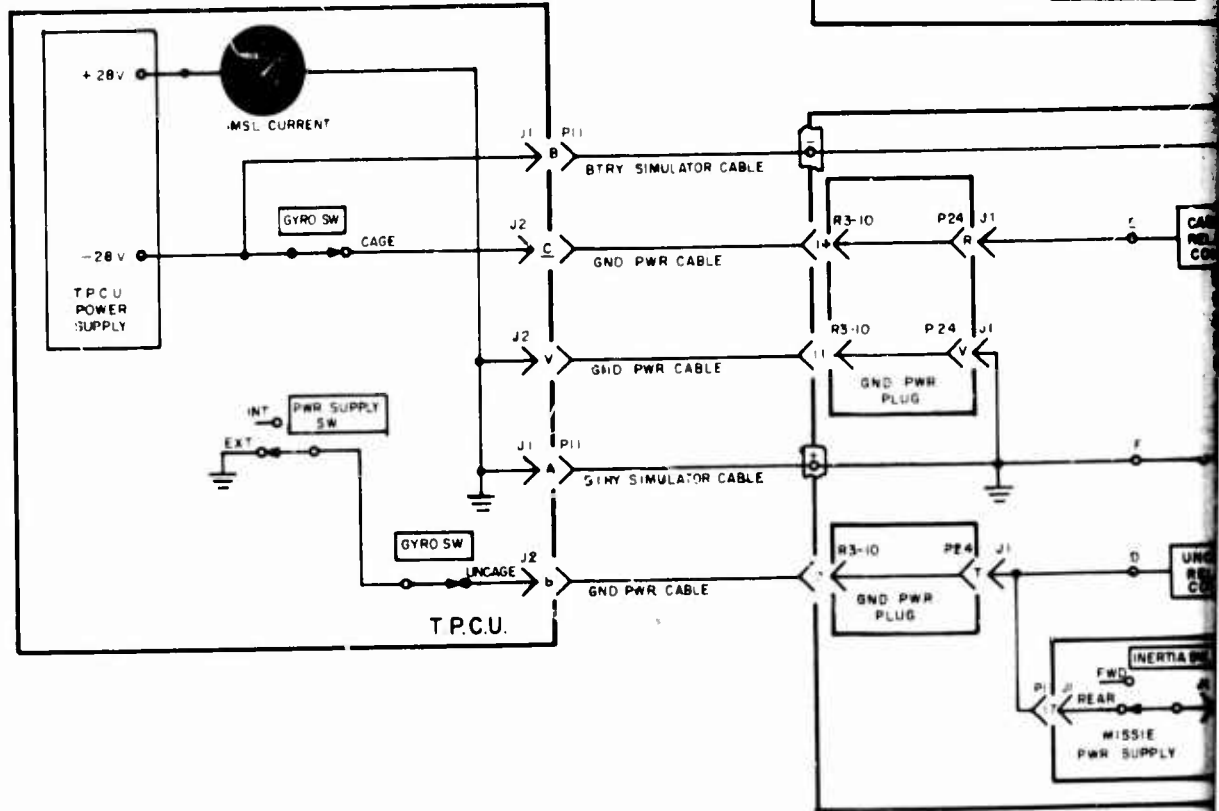
NOTE

SHOWN IN CAGE POSITION. CAGE RELAY MECHANICALLY LOCKED WHEN ENERGIZED. ENERGIZING UNCAGE RELAY RELEASES LOCK AND ALLOWS CAGE RELAY TO RETURN TO DE-ENERGIZED POSITION.

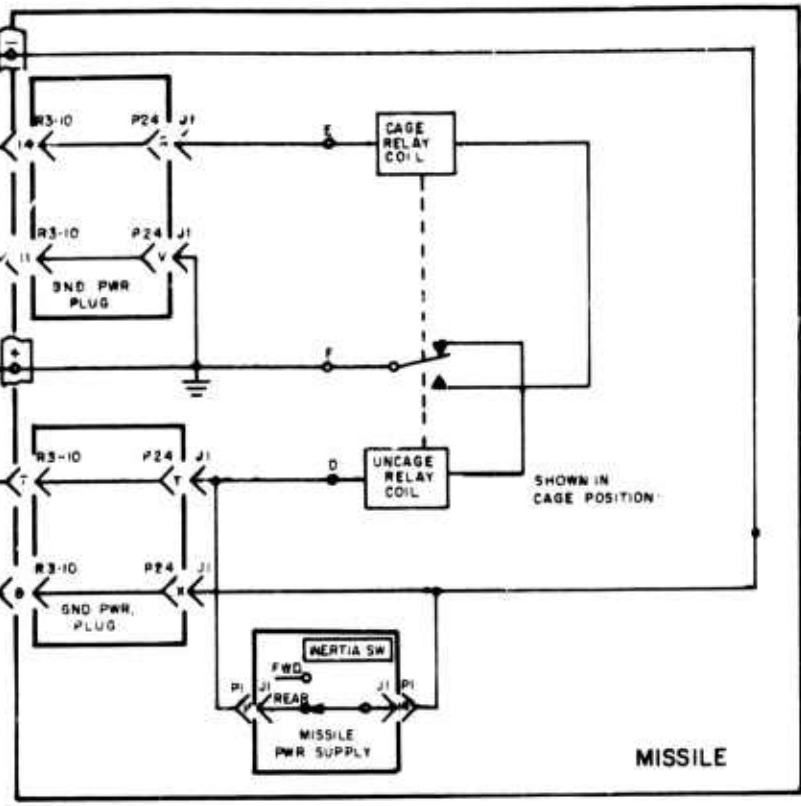
59



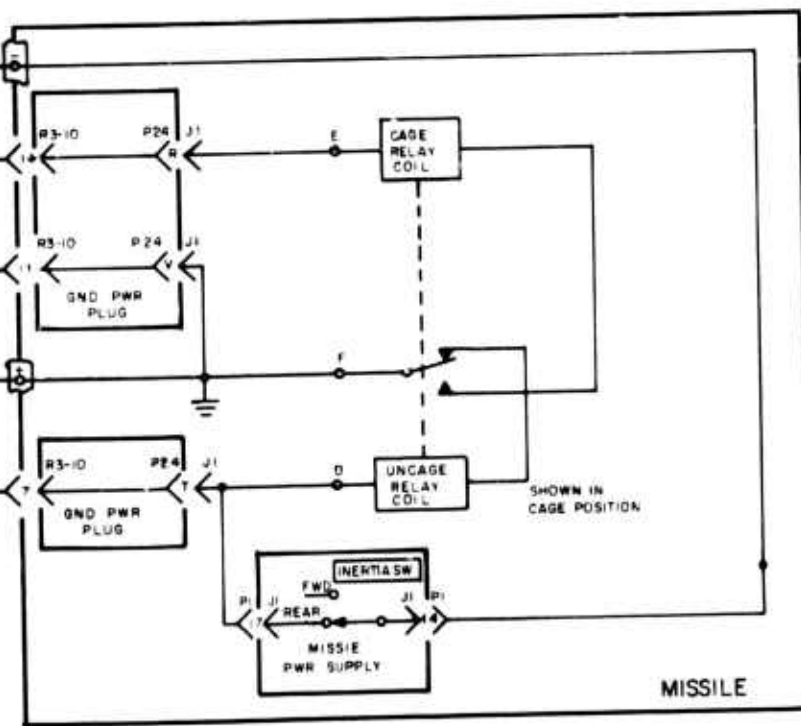
60



~~CONFIDENTIAL~~



NOTE:
SHOWN IN CAGE POSITION CAGE RELAY MECHANICALLY
LOCKED WHEN ENERGIZED. ENERGIZING UNCAGE RELAY
RELEASES LOCK AND ALLOWS CAGE RELAY TO RETURN
TO DE ENERGIZED POSITION.

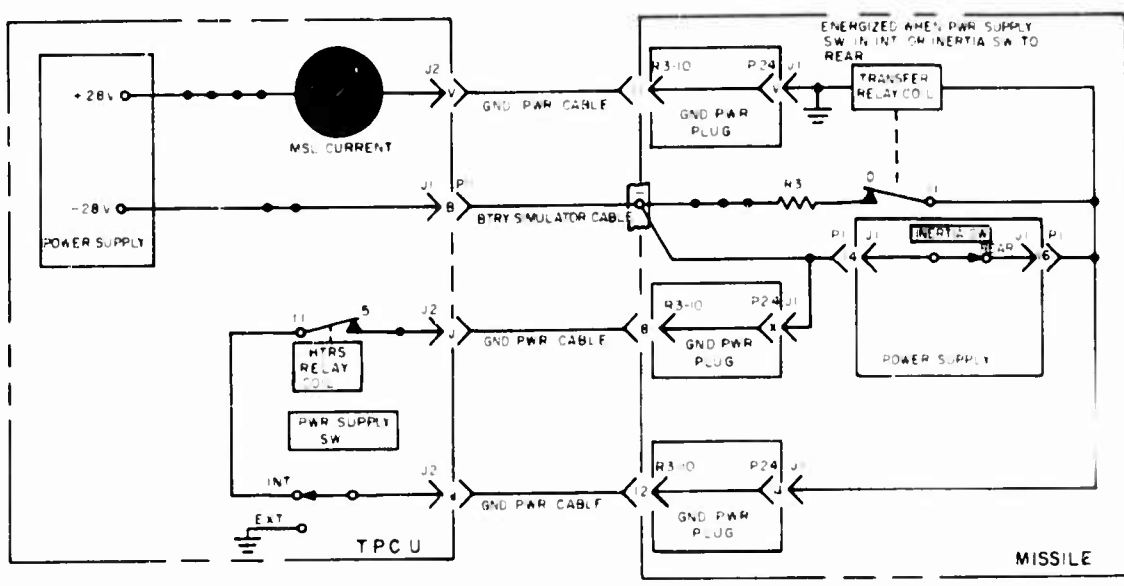


NOTE:
SHOWN IN CAGE POSITION CAGE RELAY MECHANICALLY
LOCKED WHEN ENERGIZED. ENERGIZING UNCAGE RELAY
RELEASES LOCK AND ALLOWS CAGE RELAY TO RETURN
TO DE ENERGIZED POSITION.

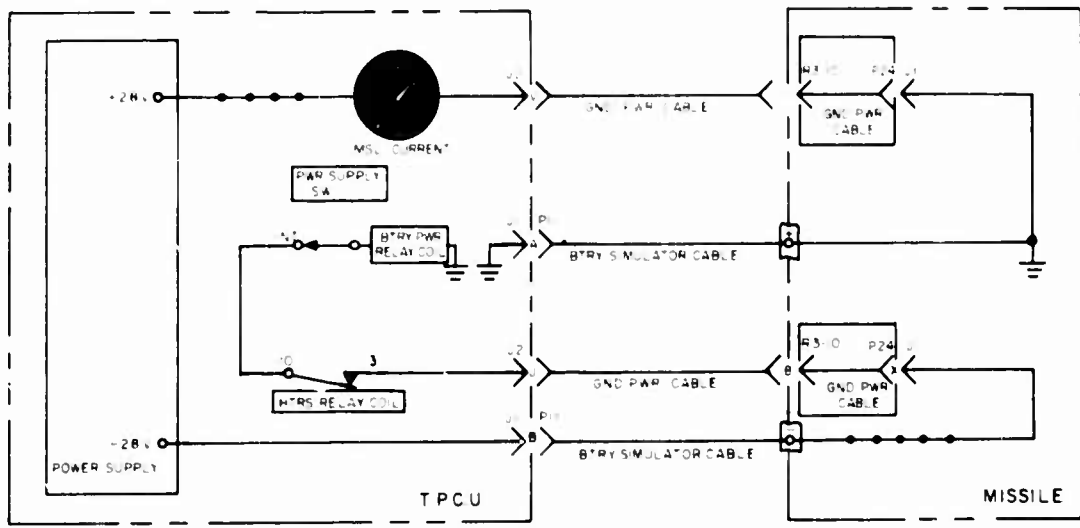
~~CONFIDENTIAL~~

UNCLASSIFIED
CONFIDENTIAL

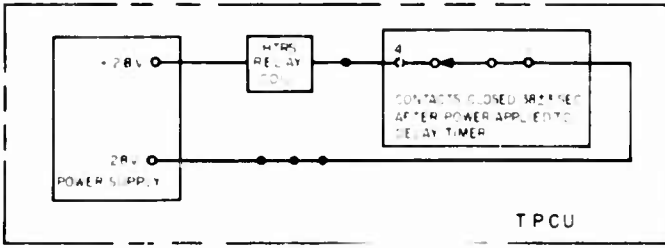
61



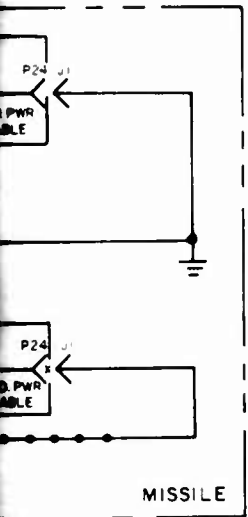
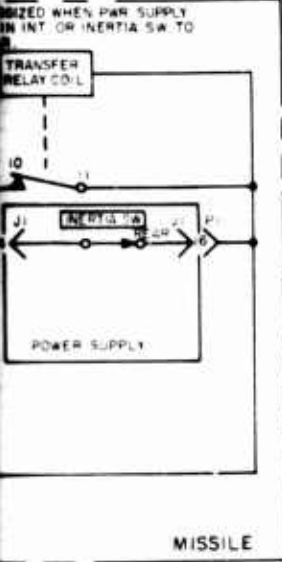
62



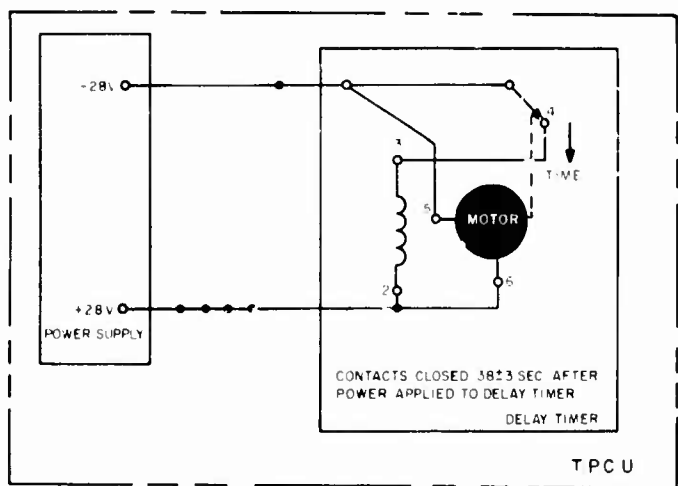
63



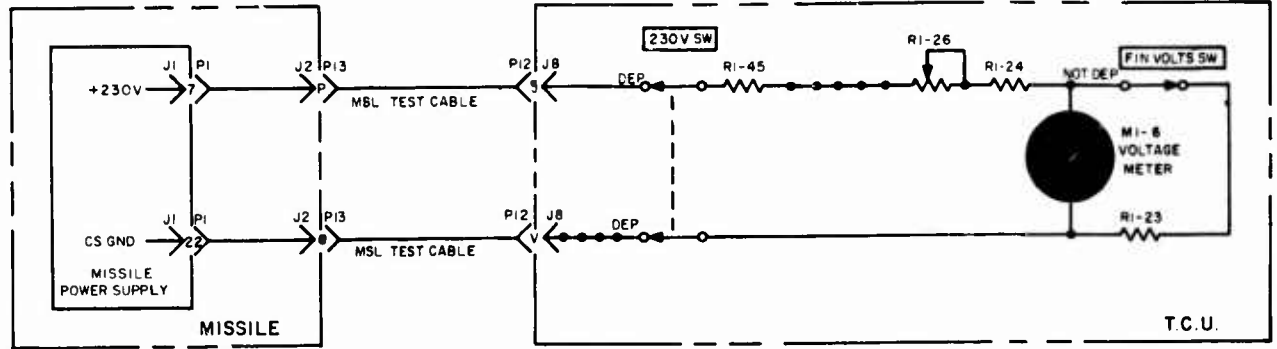
UNCLASSIFIED
CONFIDENTIAL



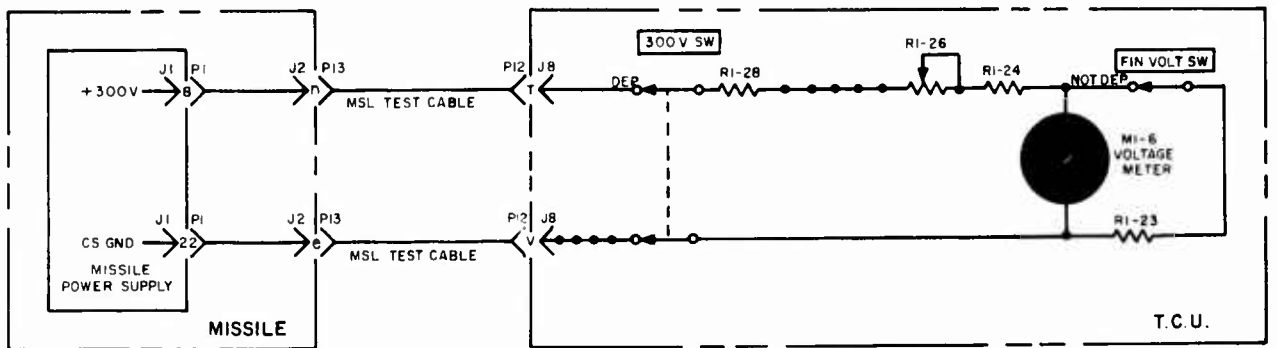
64



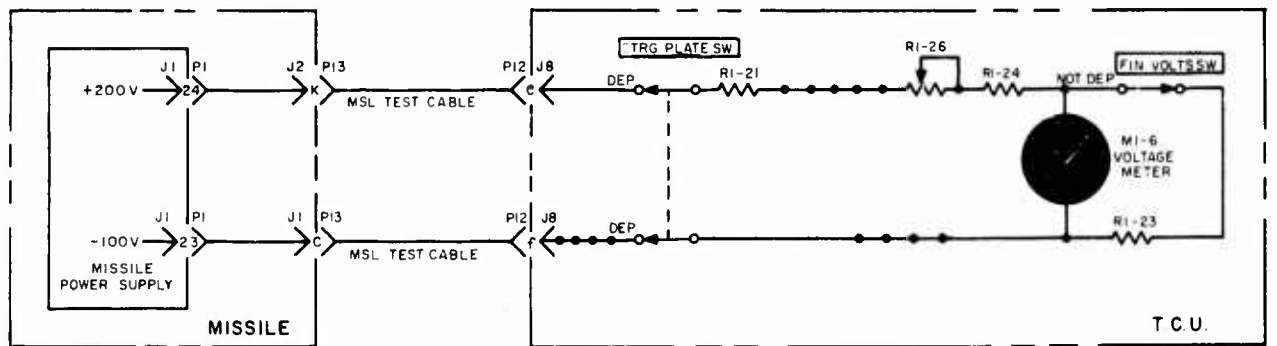
65



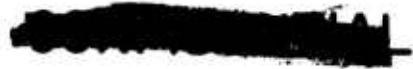
66



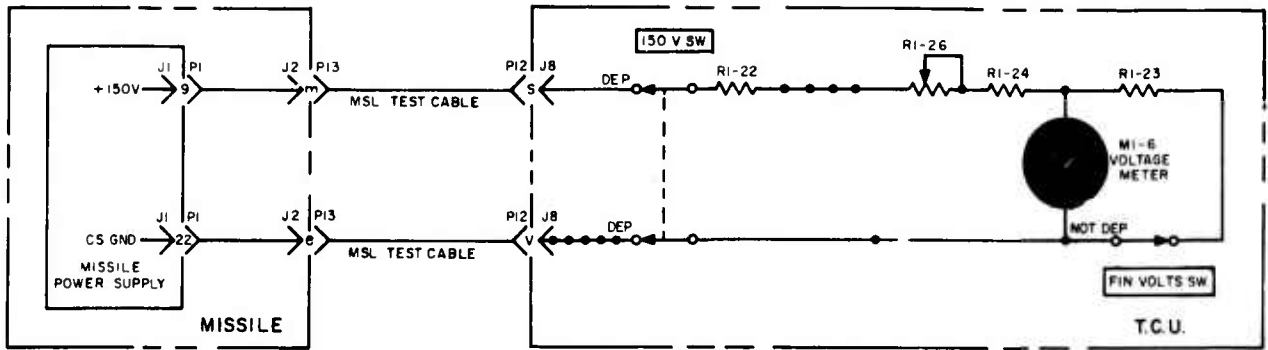
67



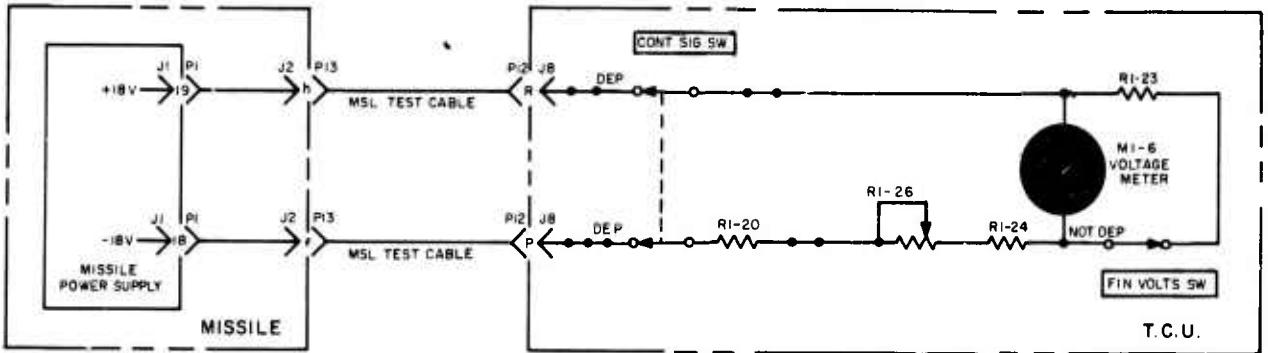
UNCLASSIFIED



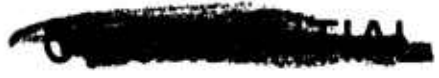
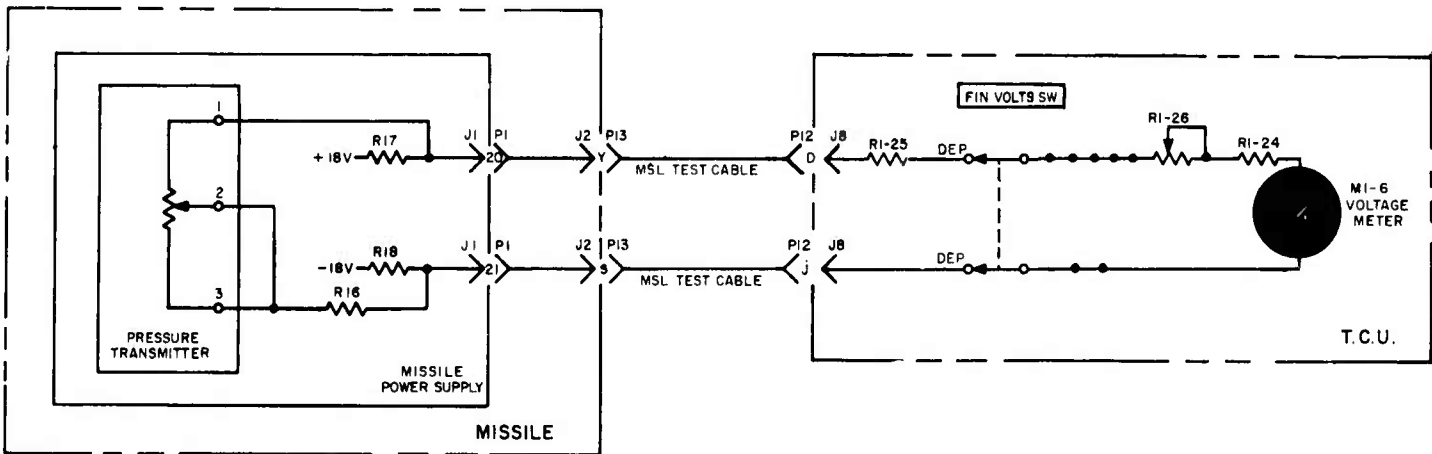
68



69

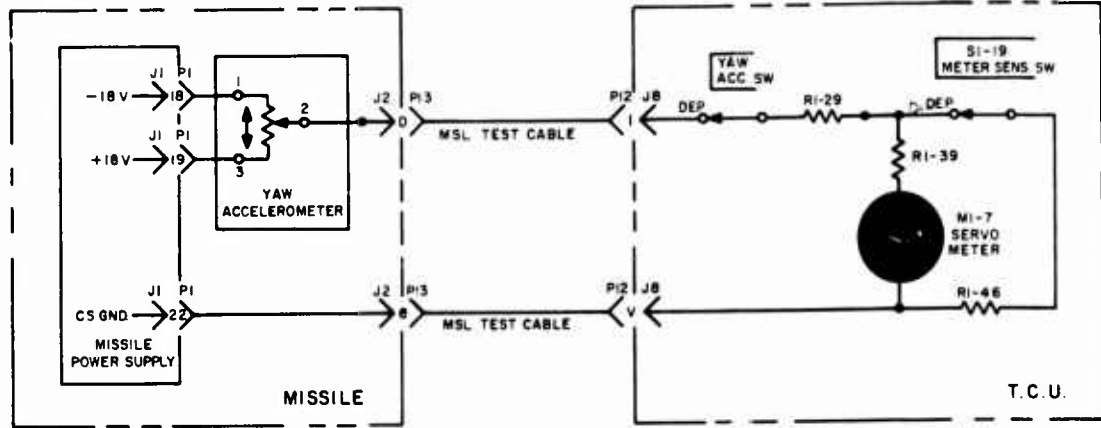


70

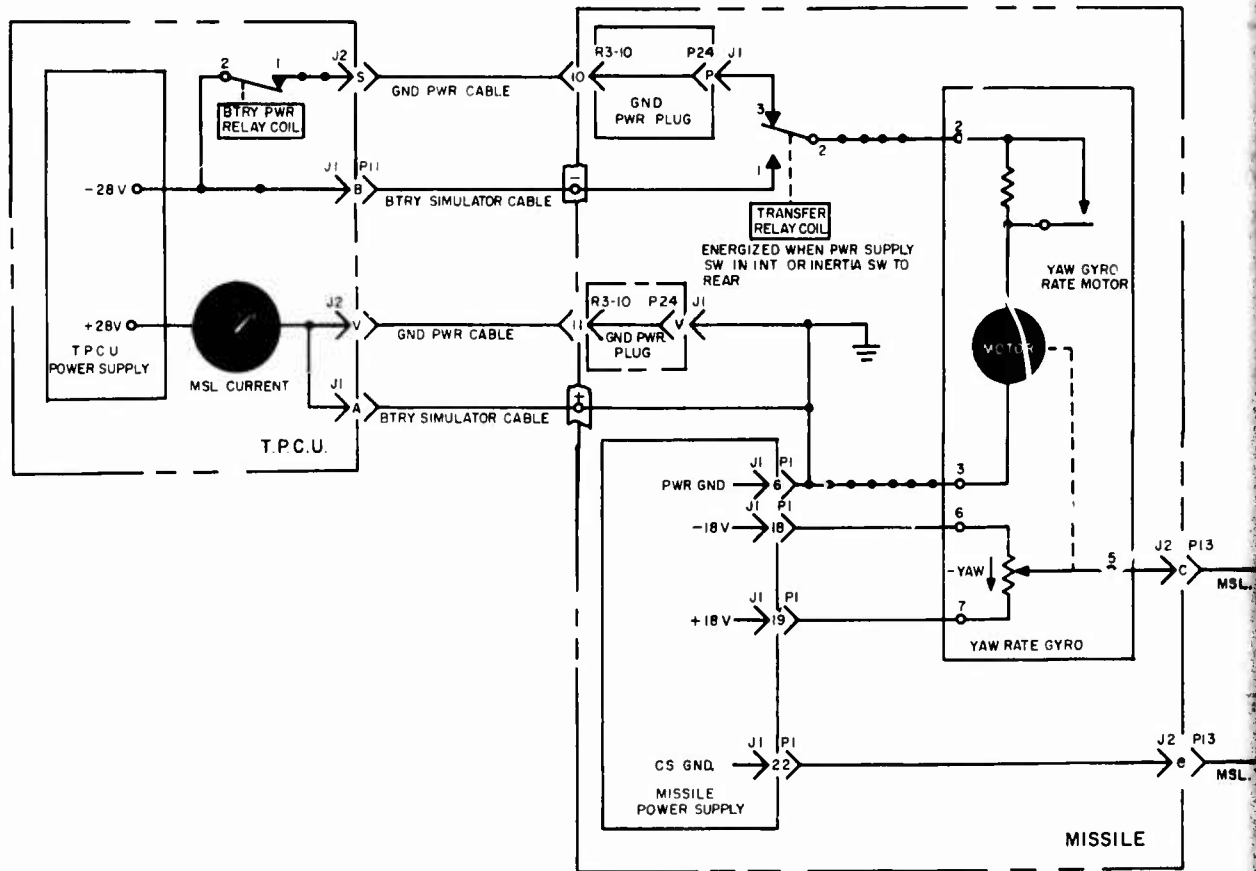


UNCLASSIFIED

71

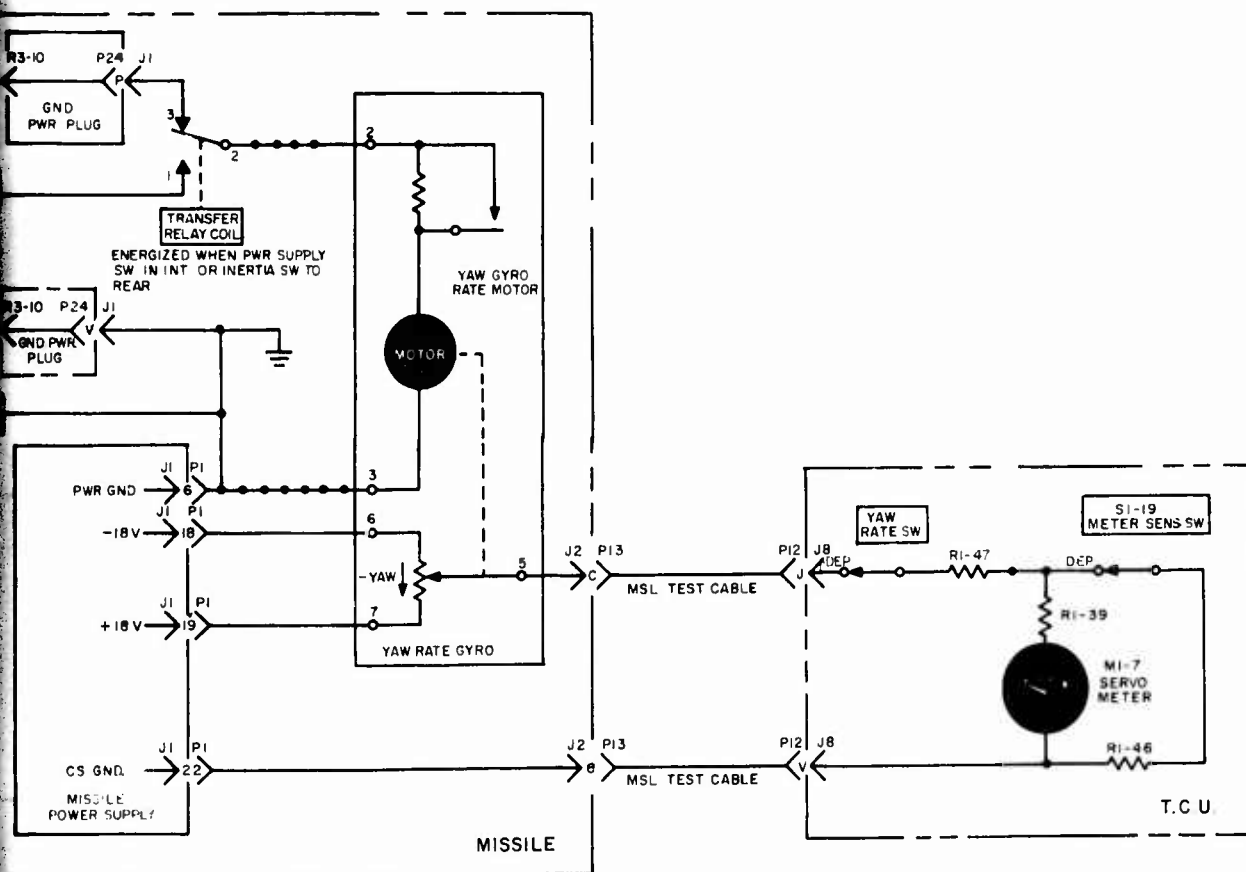
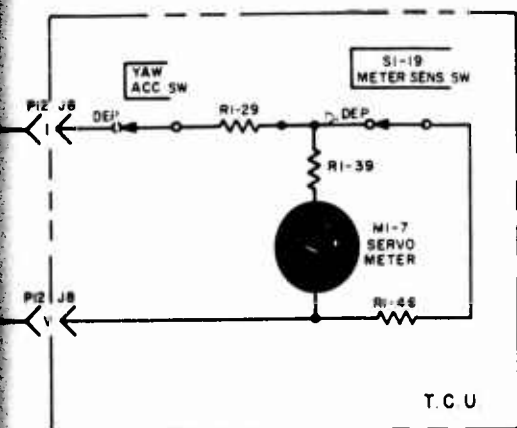


72



UNCLASSIFIED

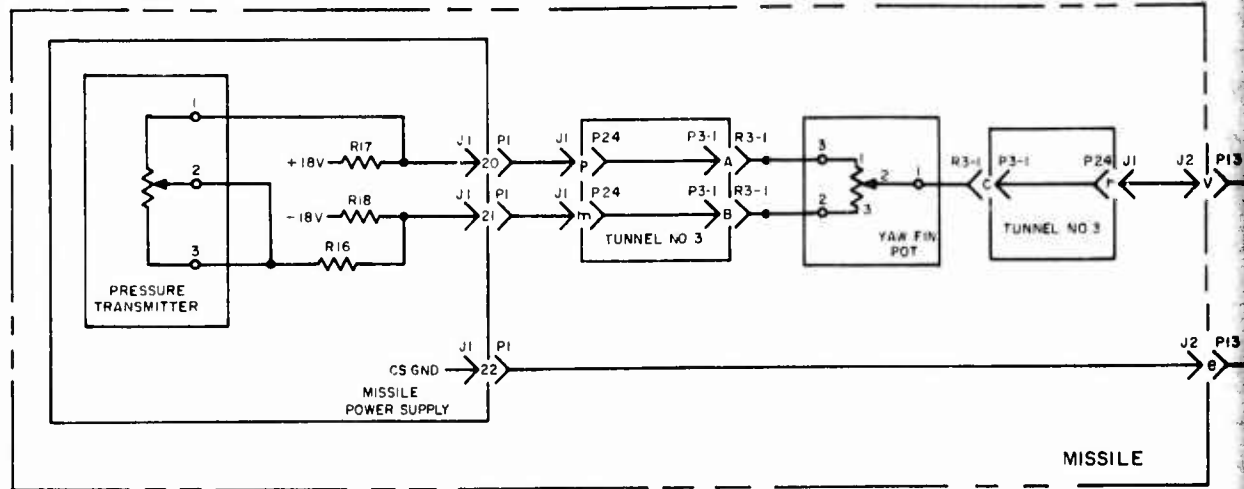
~~CONFIDENTIAL~~



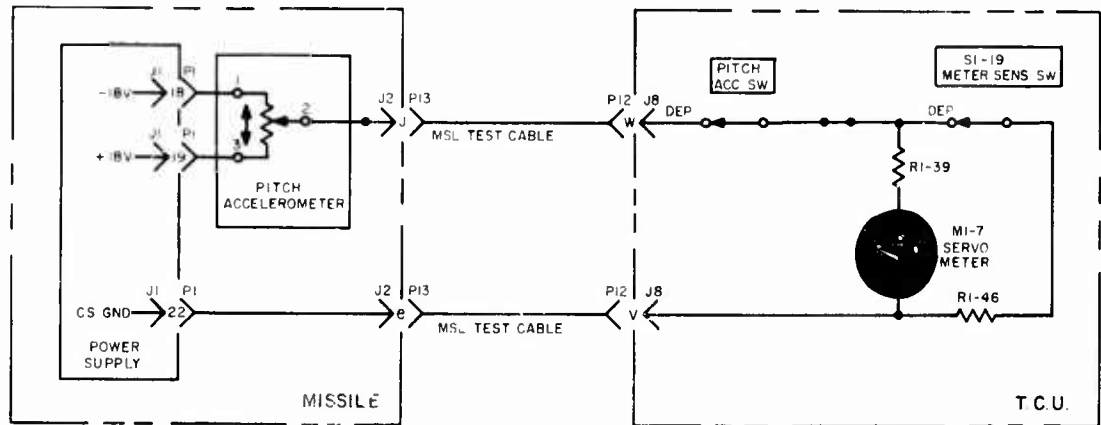
~~CONFIDENTIAL~~

B

73



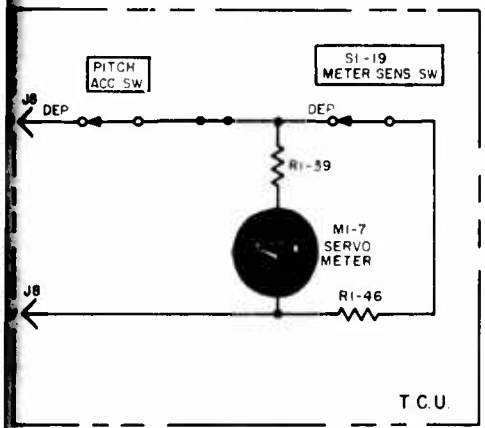
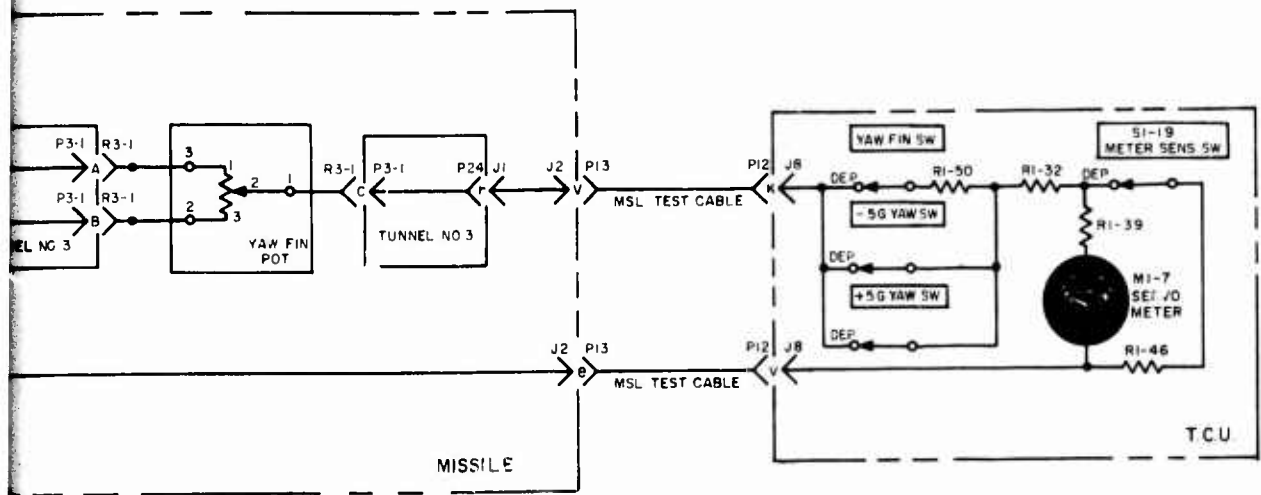
74



A

UNCLASSIFIED

~~CONFIDENTIAL~~

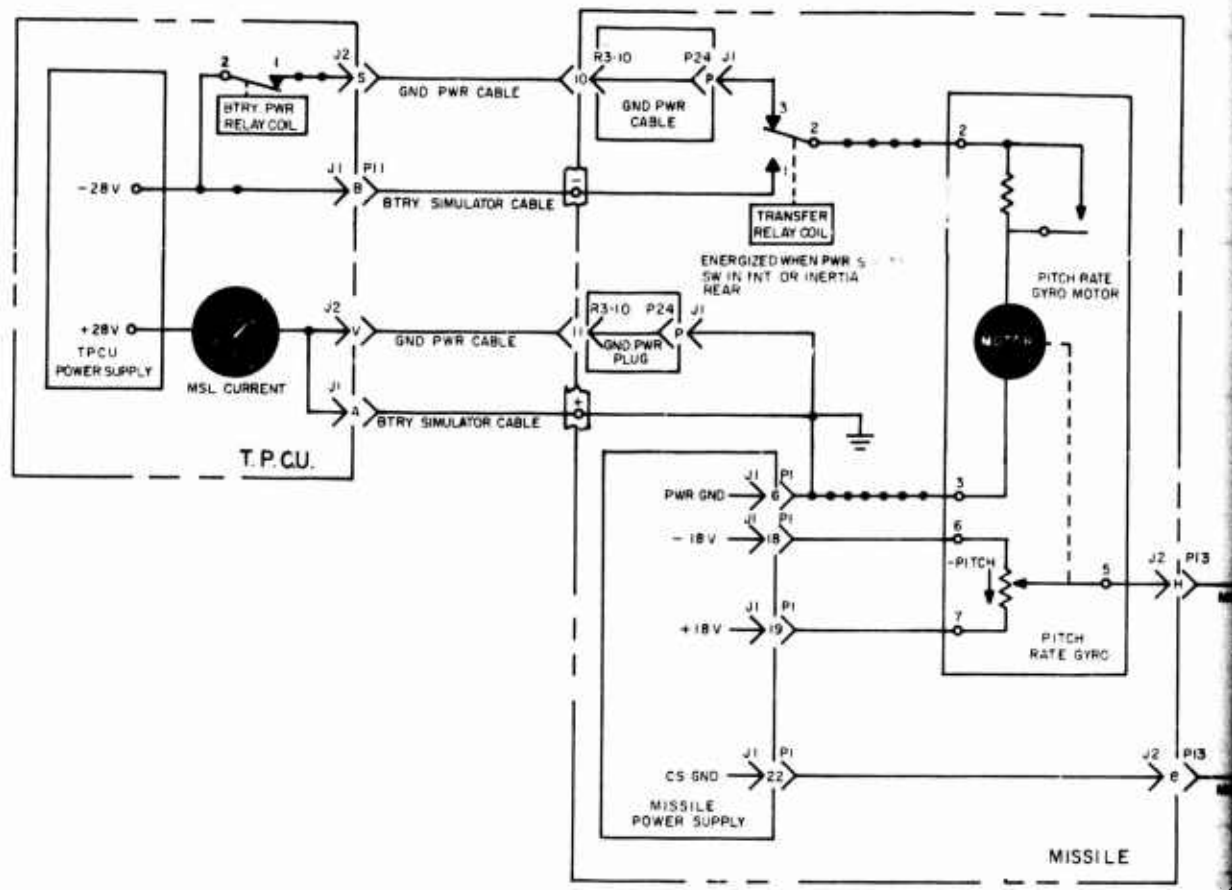


~~CONFIDENTIAL~~

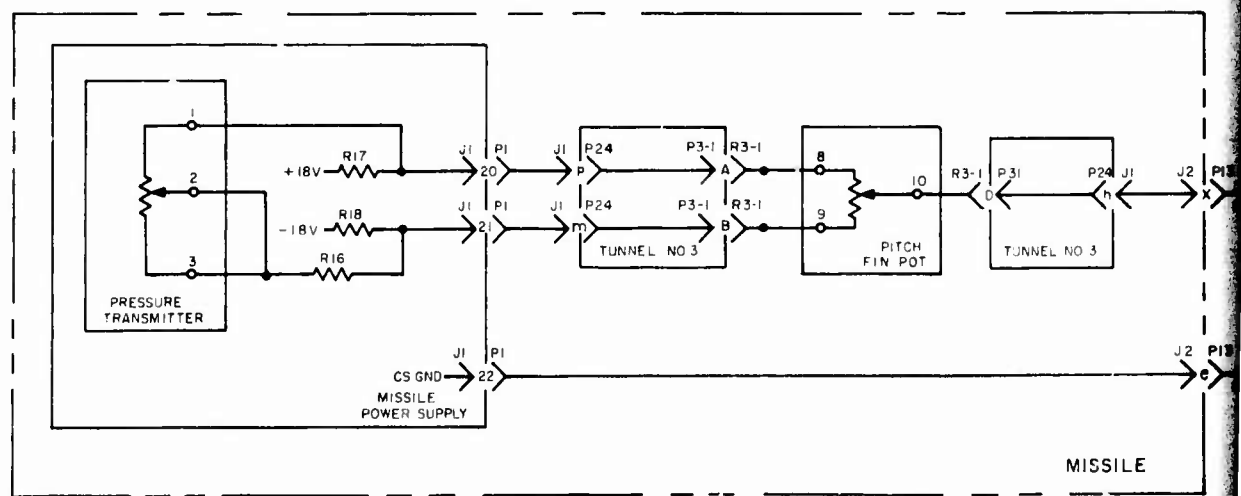
B

RESTRICTED

75



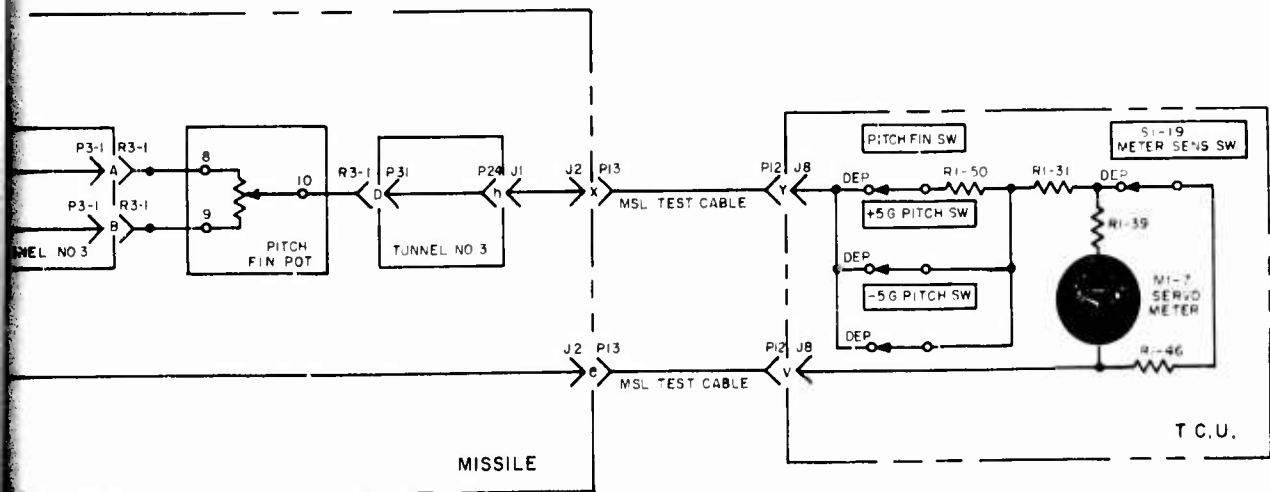
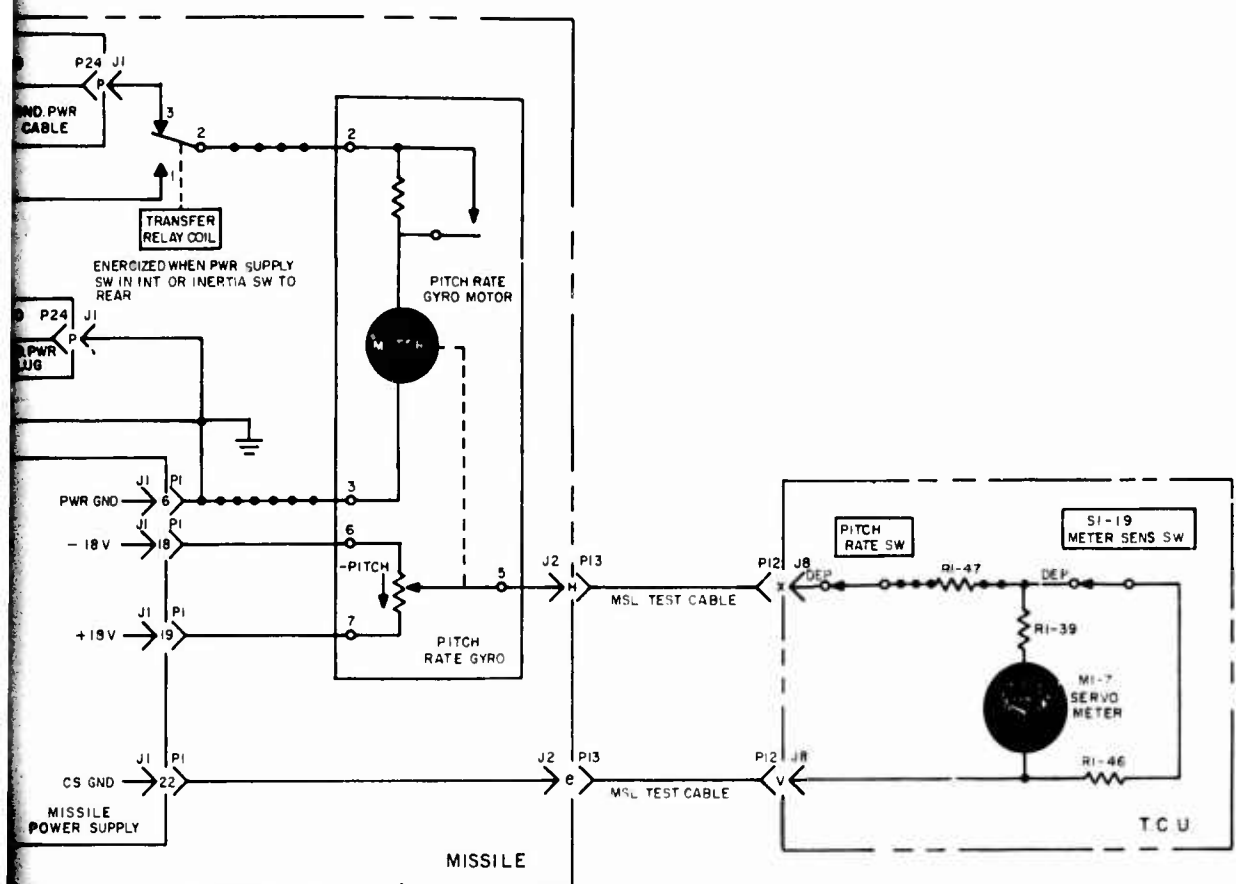
76



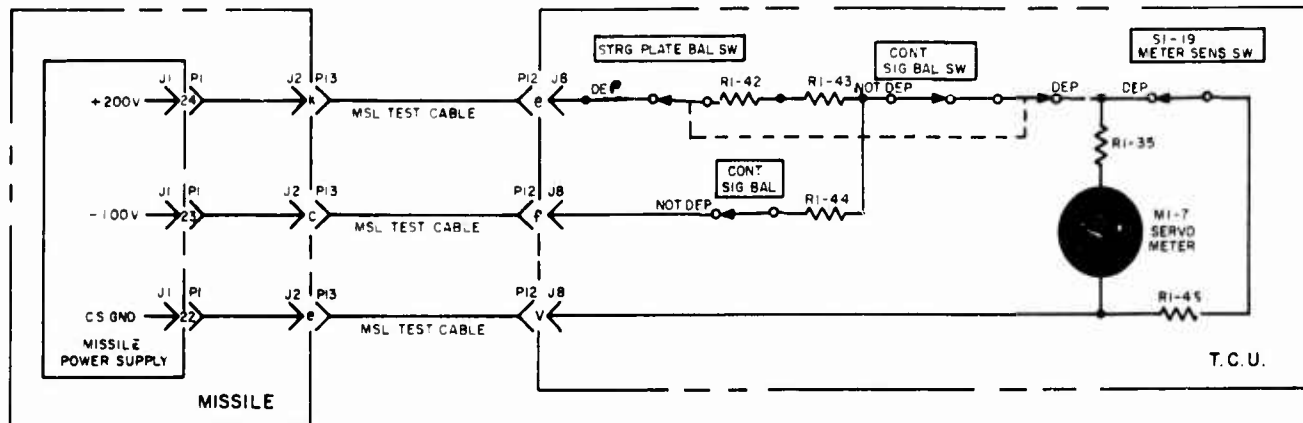
A

D

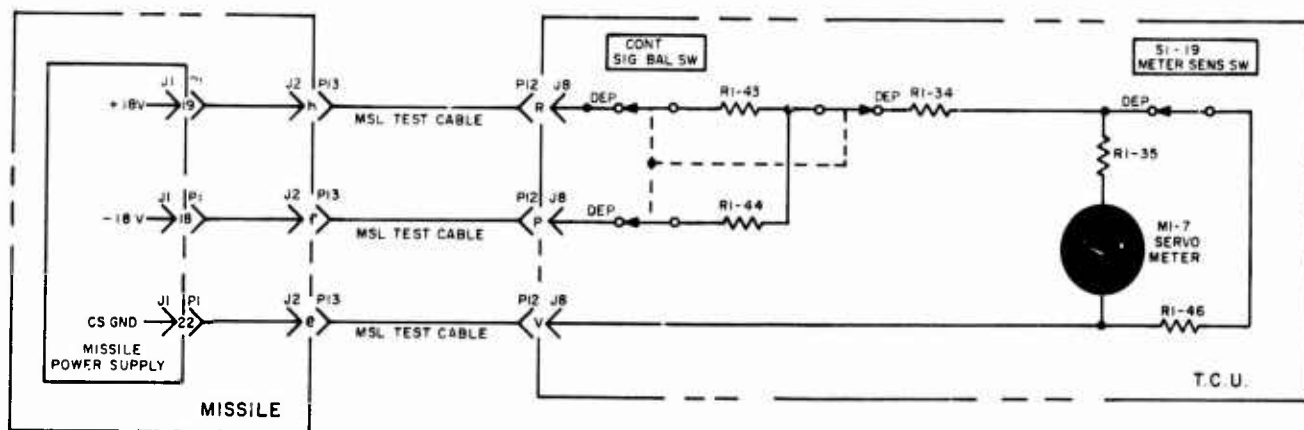
UNCLASSIFIED



77

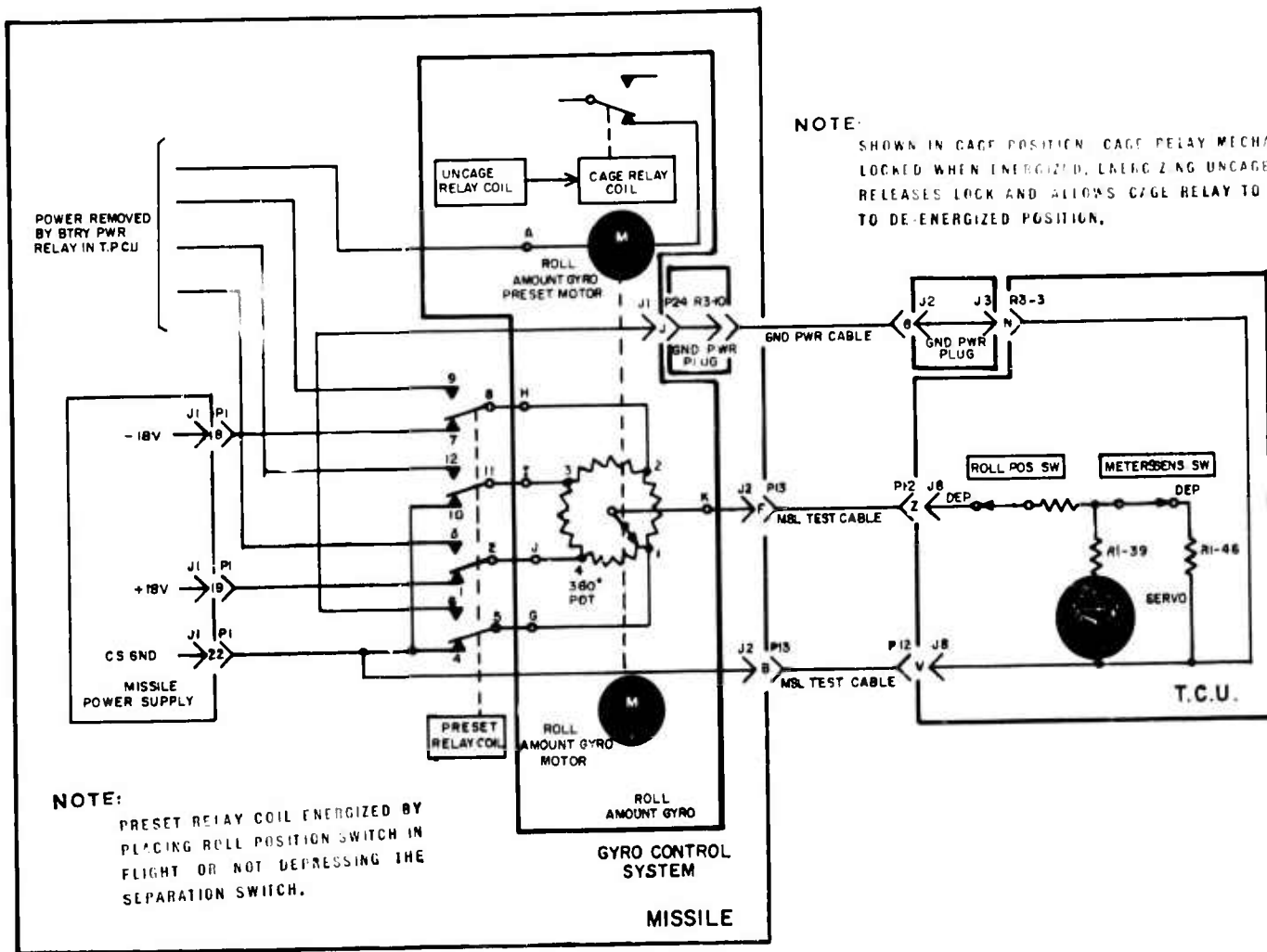


78



138

79

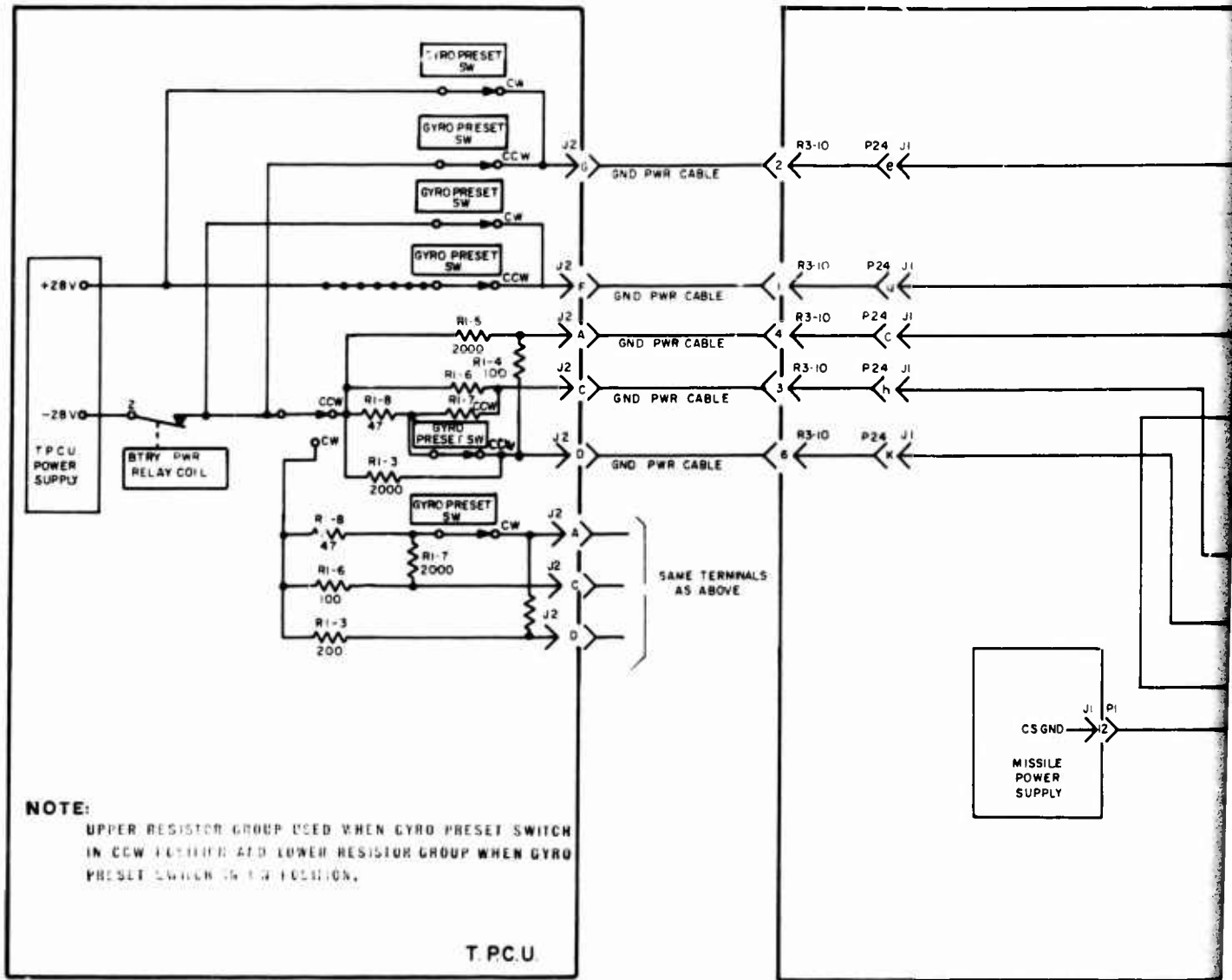


~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

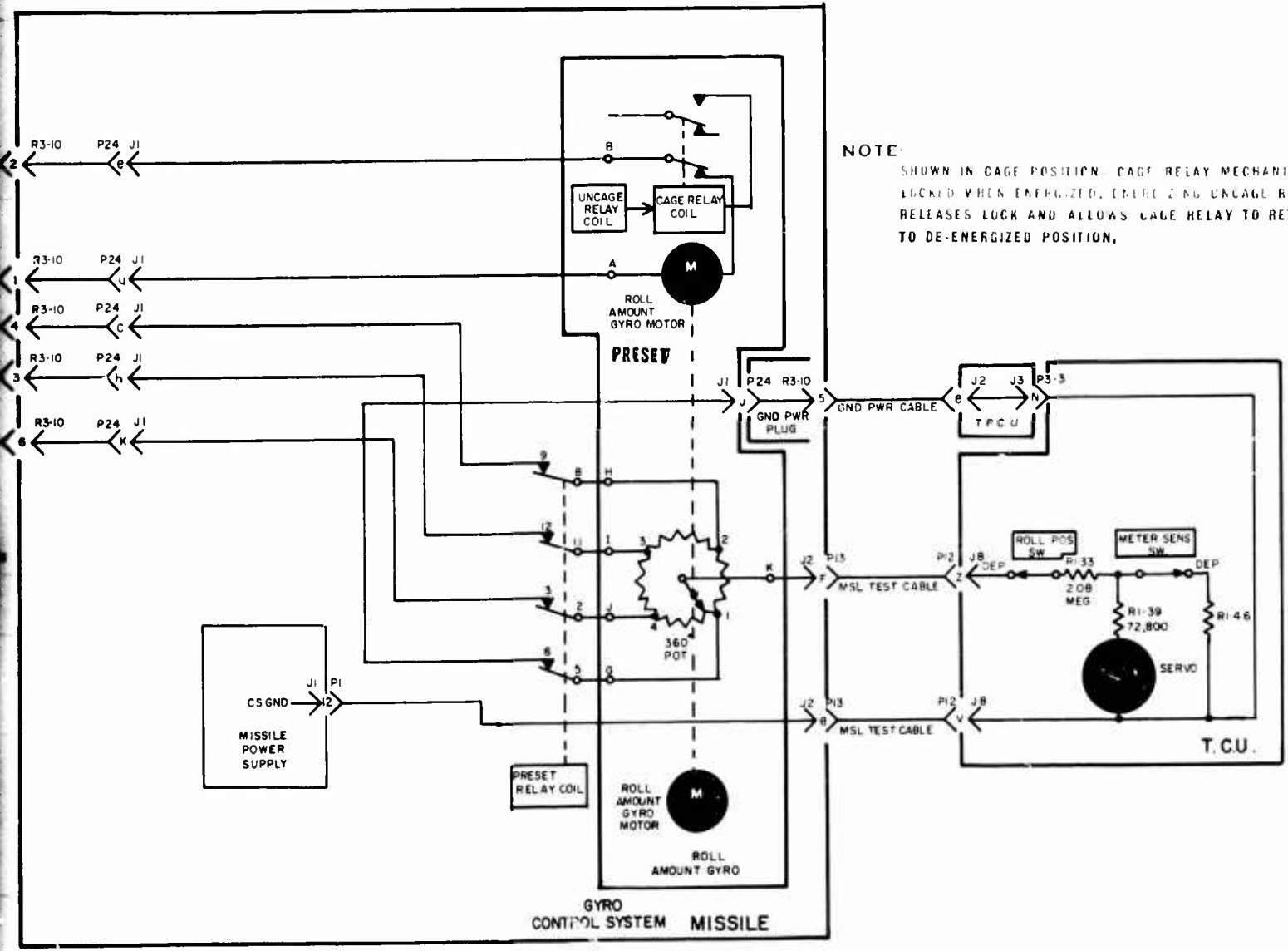
CONFIDENTIAL

80



CONFIDENTIAL

CONFIDENTIAL

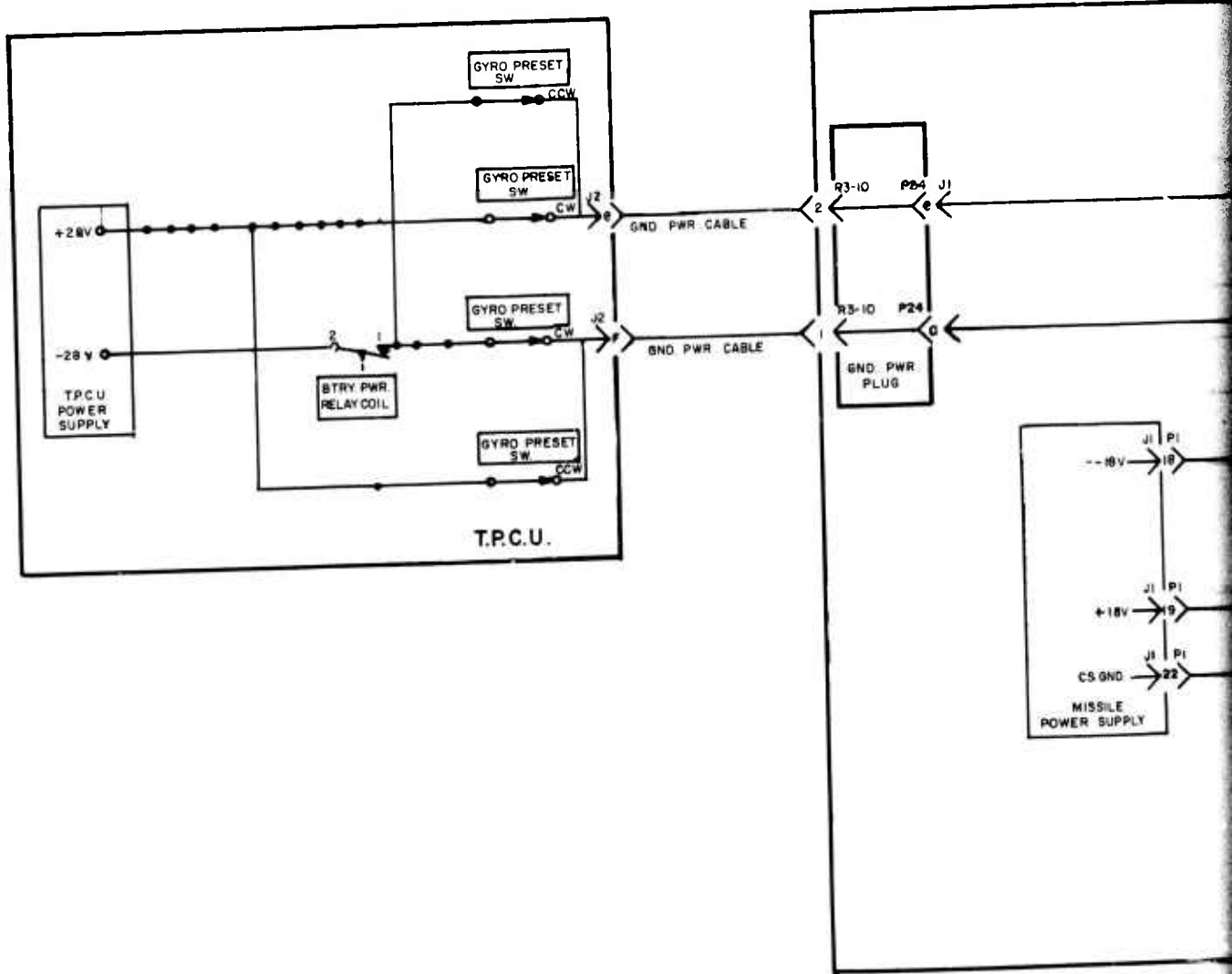


NOTE:
 SHOWN IN CAGE POSITION. CAGE RELAY MECHANICALLY LOCKED WHEN ENERGIZED. ENERGIZING UNCAGE RELAY RELEASES LOCK AND ALLOWS CAGE RELAY TO RETURN TO DE-ENERGIZED POSITION.

CONFIDENTIAL

13

81



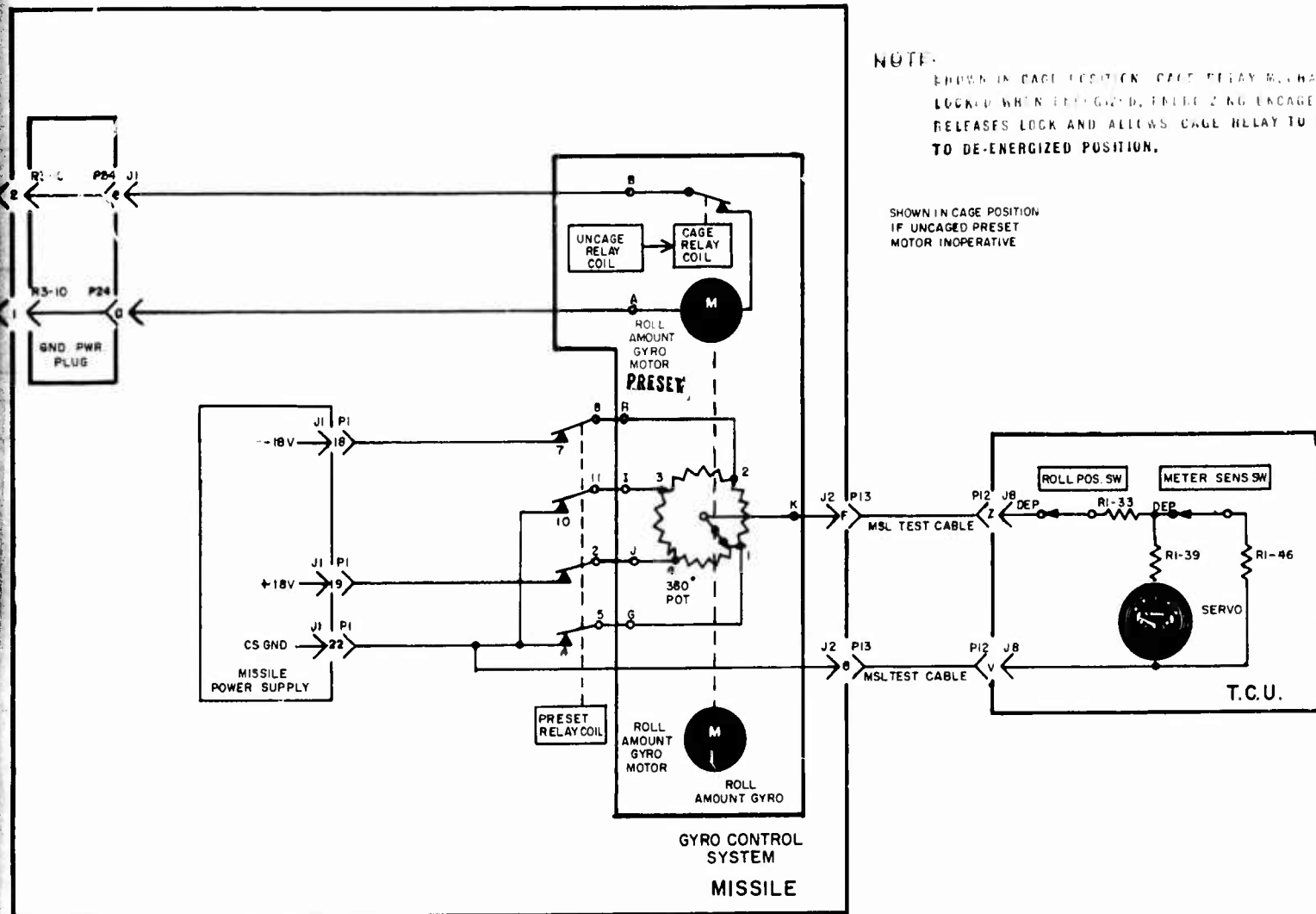
A

UNCLASSIFIED

NOTE:

SHOWN IN CAGE POSITION. CAGE RELAY MECHANICALLY LOCKED WHEN 110V GND. PLUG IS IN CAGE RELAY RELEASES LOCK AND ALLOWS CAGE RELAY TO RETURN TO DE-ENERGIZED POSITION.

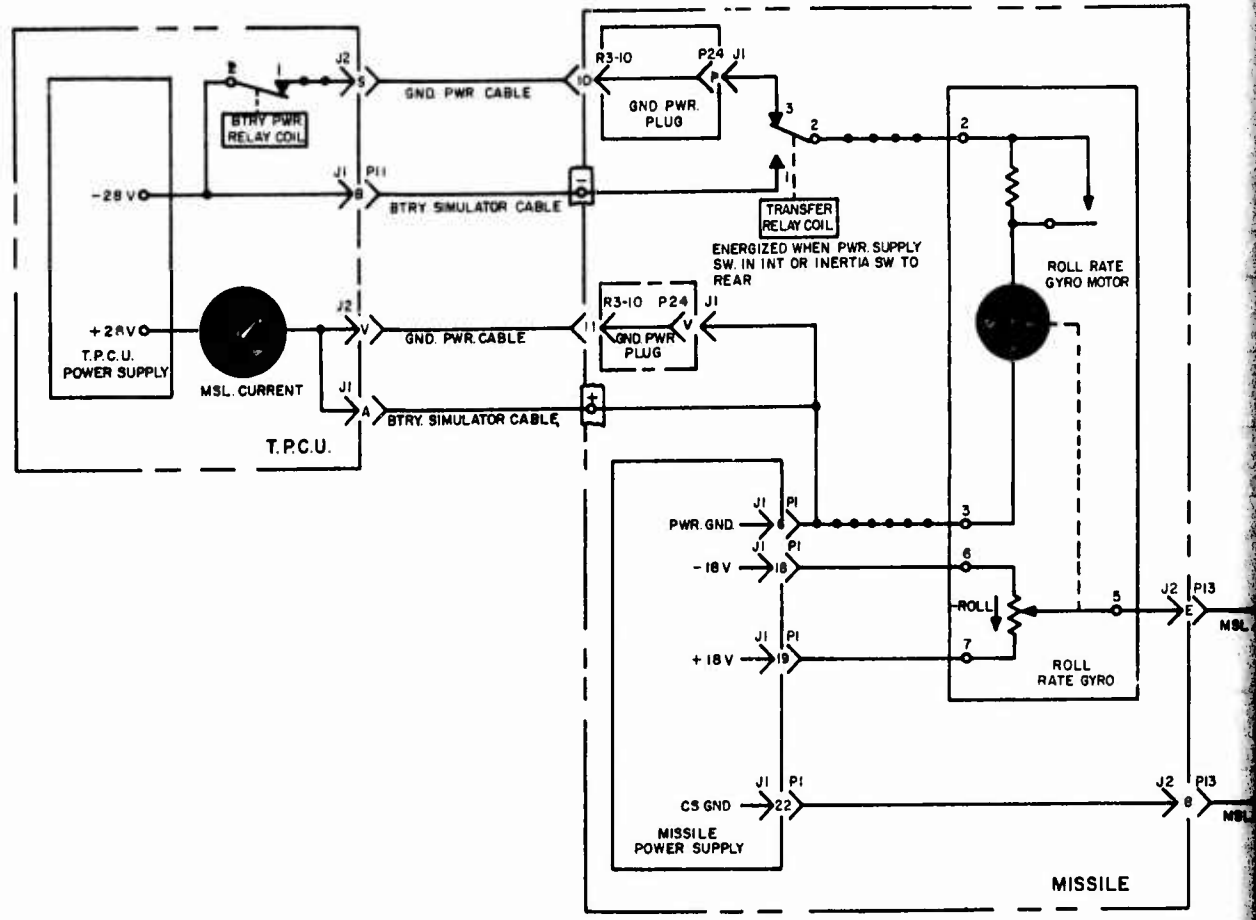
SHOWN IN CAGE POSITION IF UNCAGED PRESET MOTOR INOPERATIVE



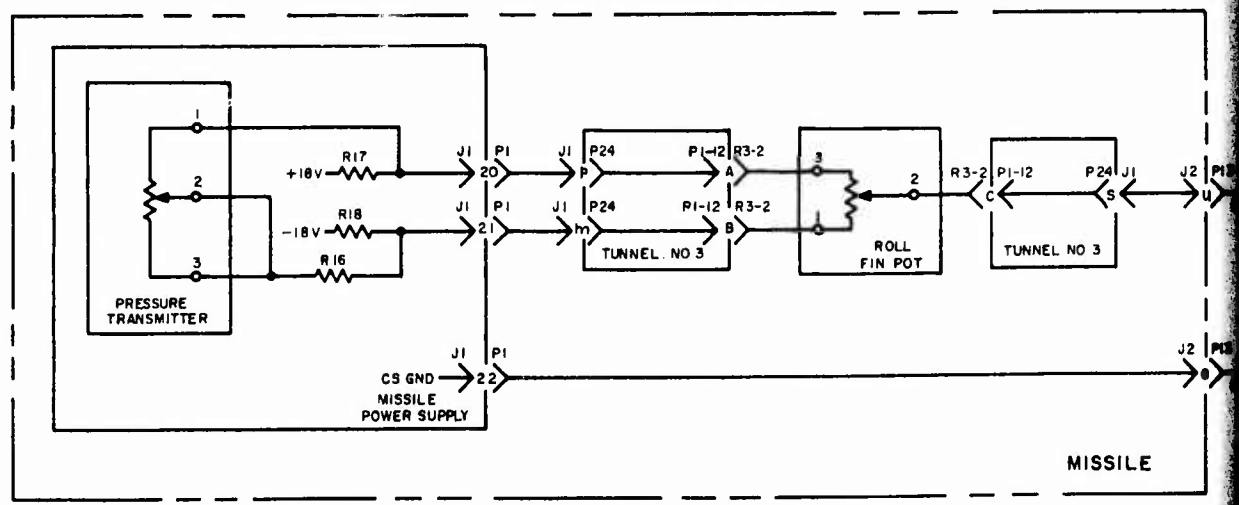
UNCLASSIFIED

CONFIDENTIAL

82

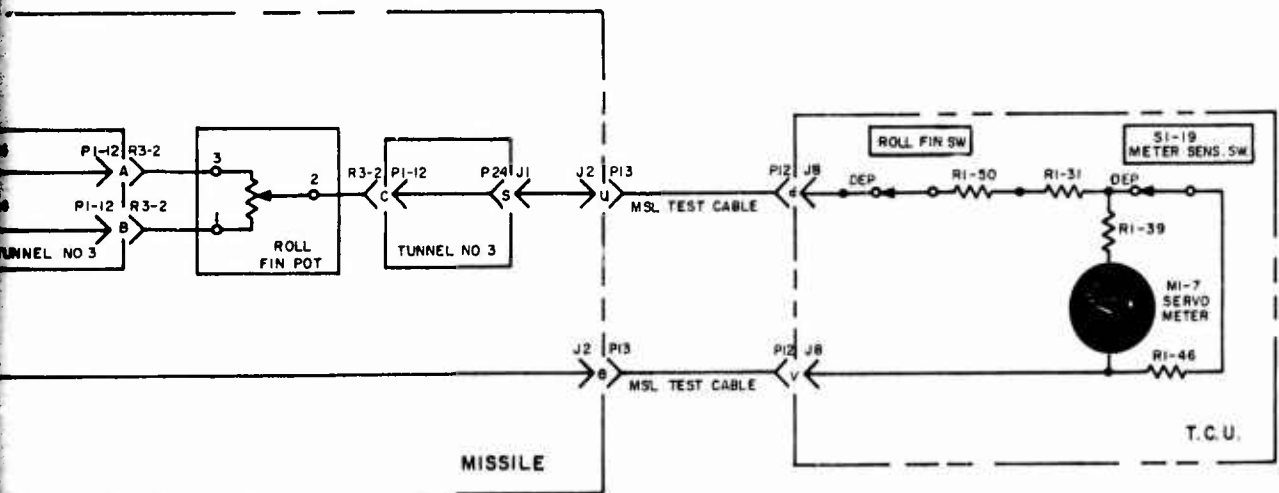
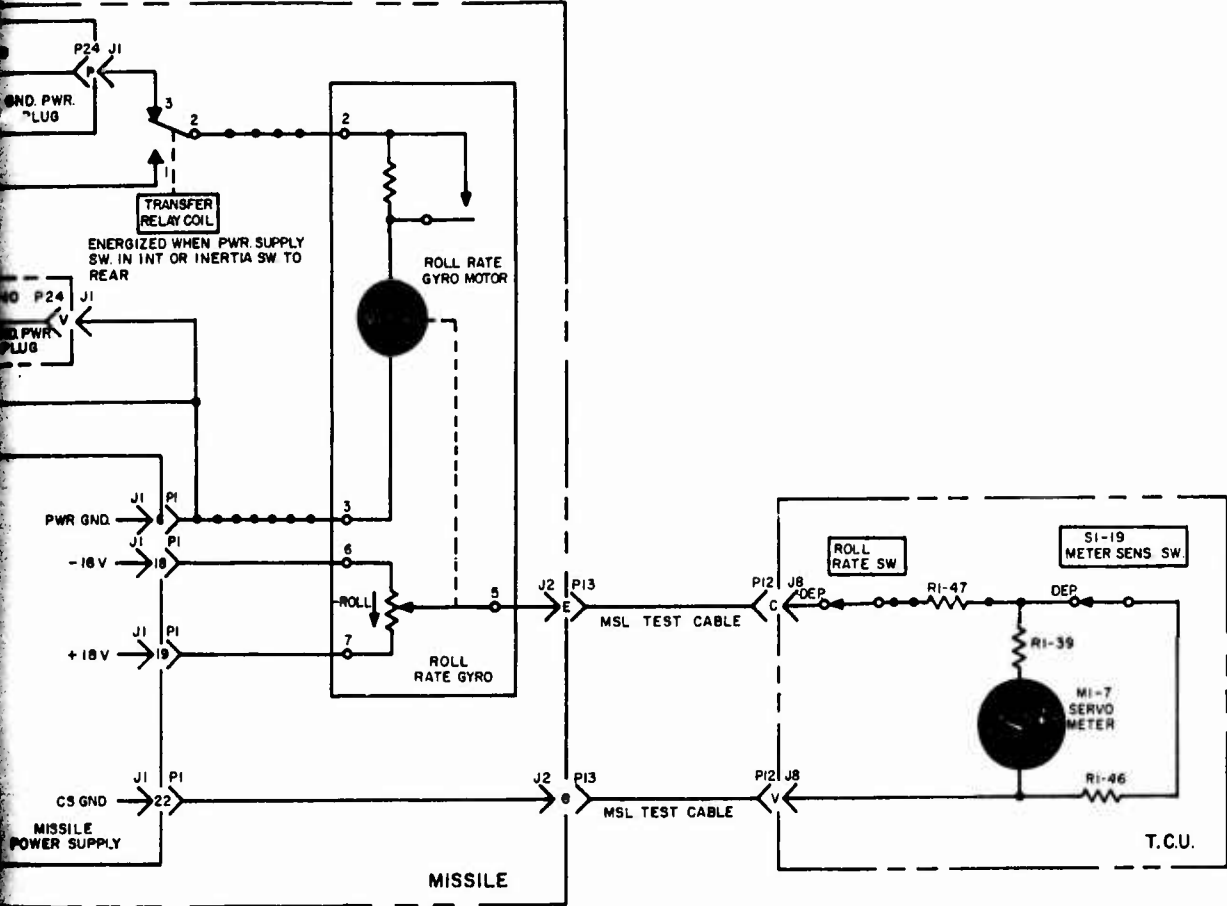


83



A

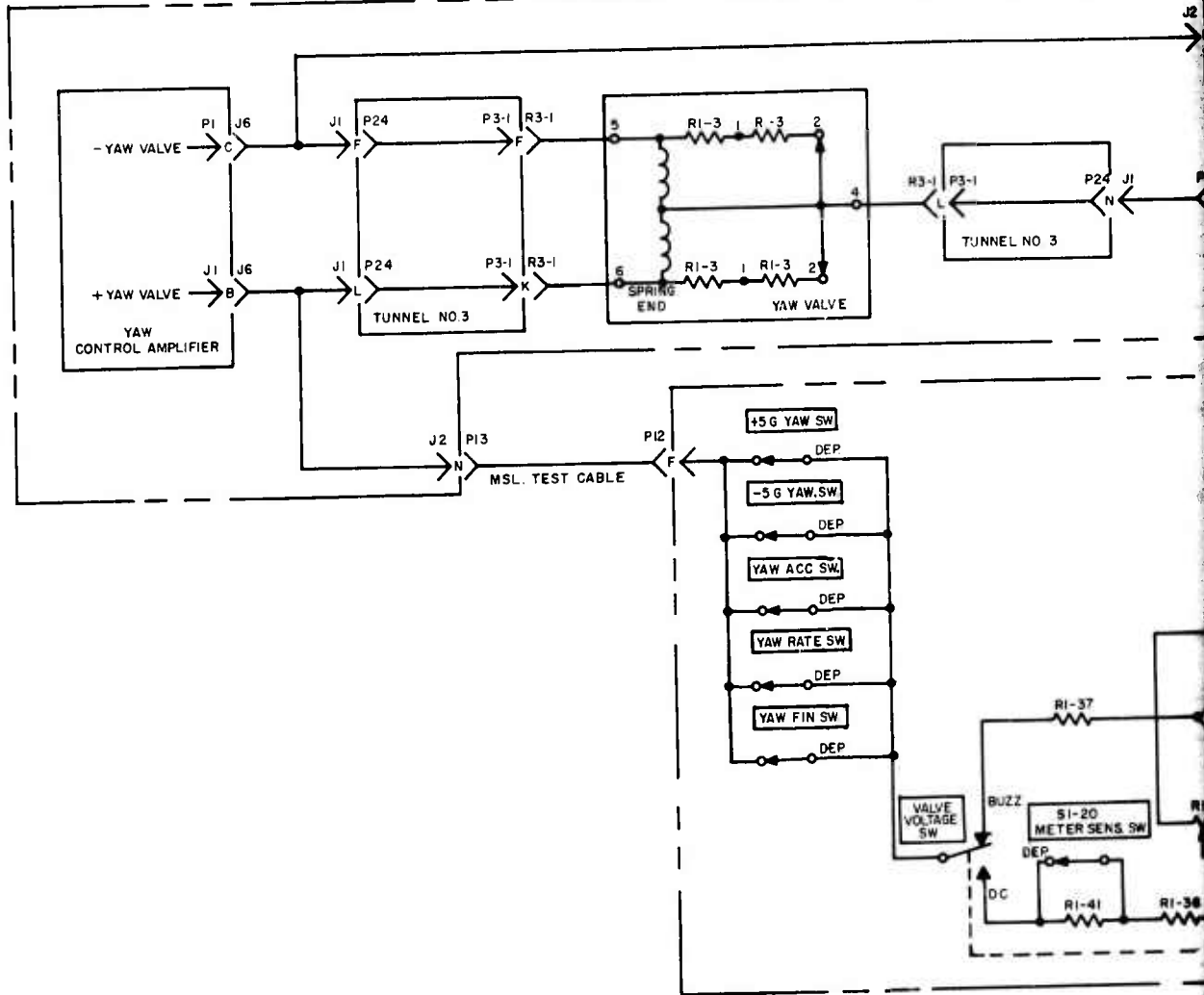
UNCLASSIFIED
~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

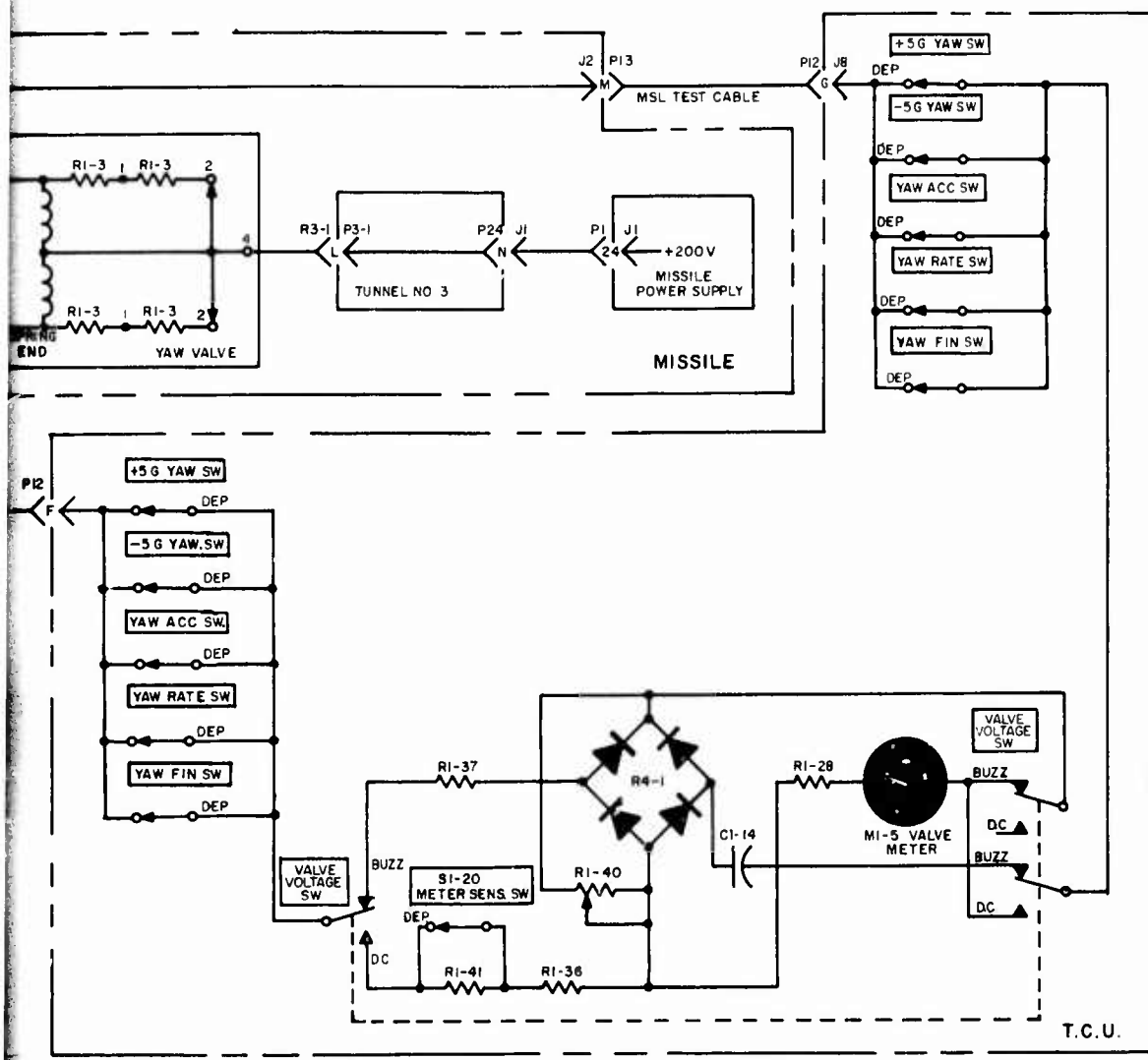
B

84



A

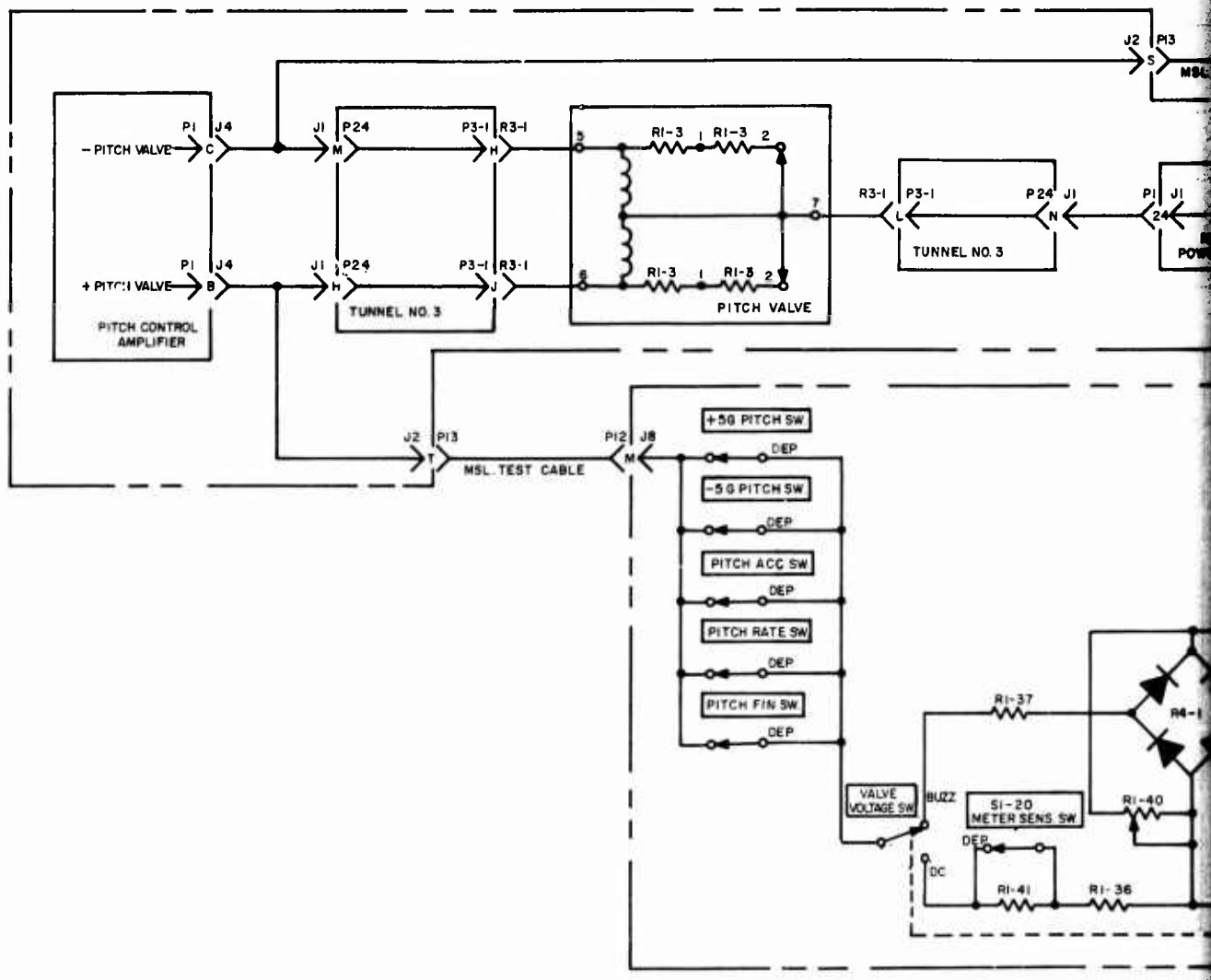
SECRET



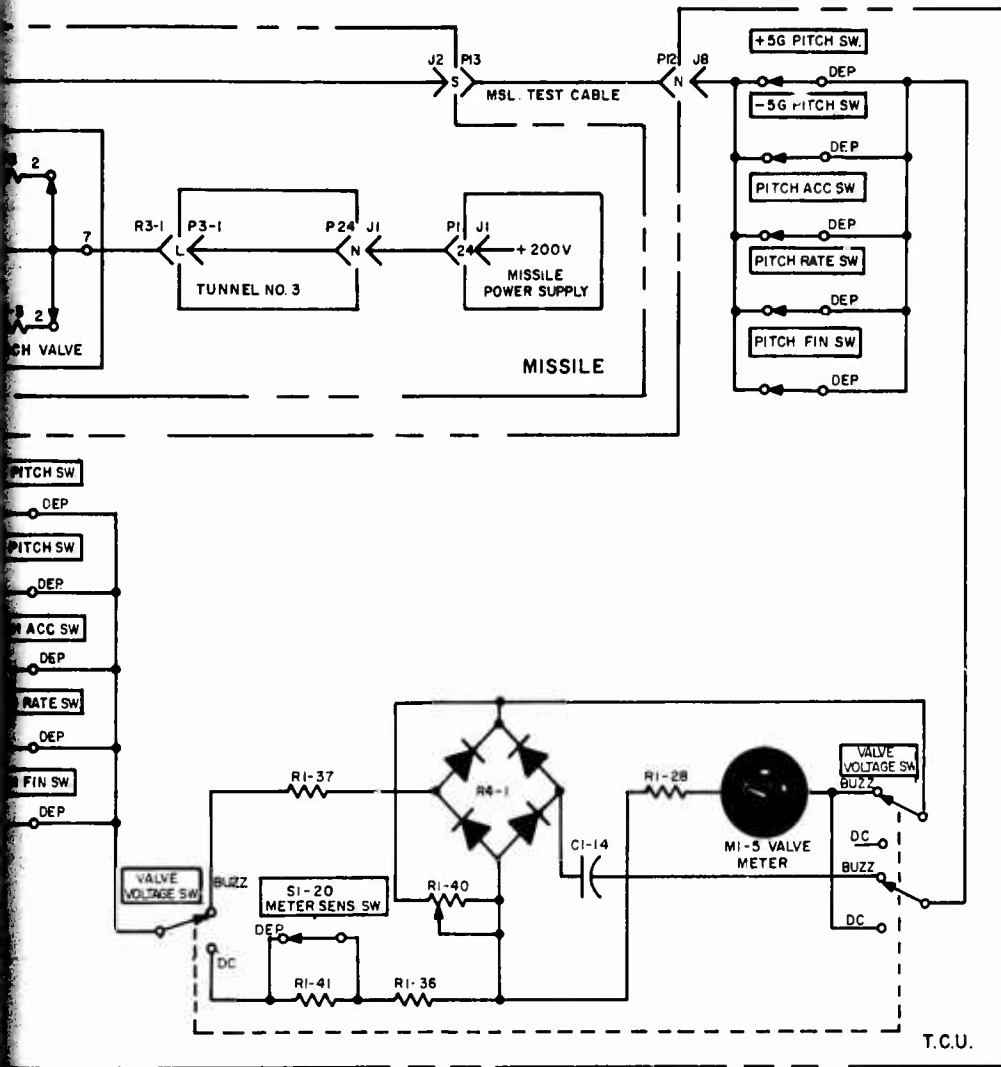
SECRET

5

85

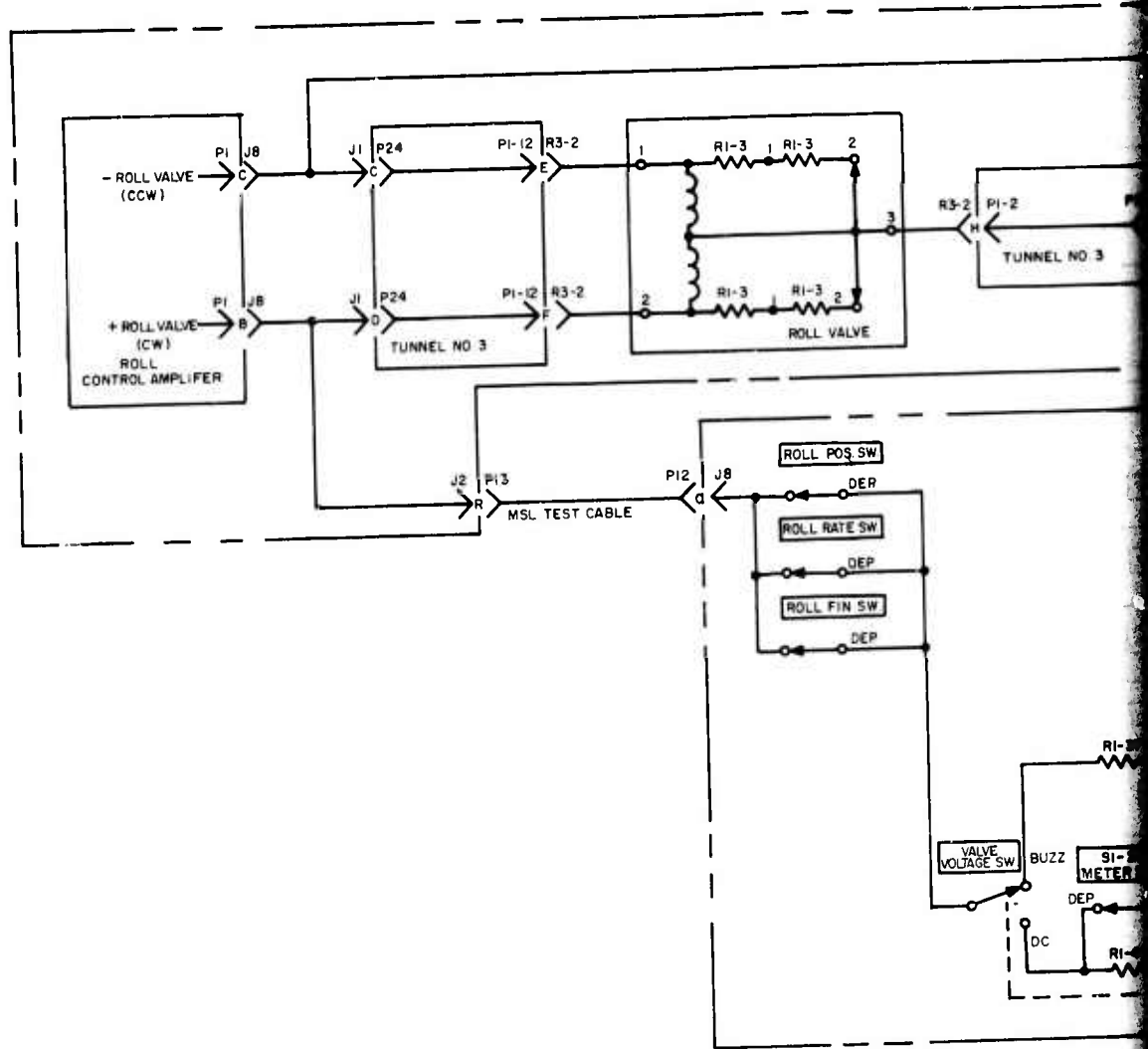


A



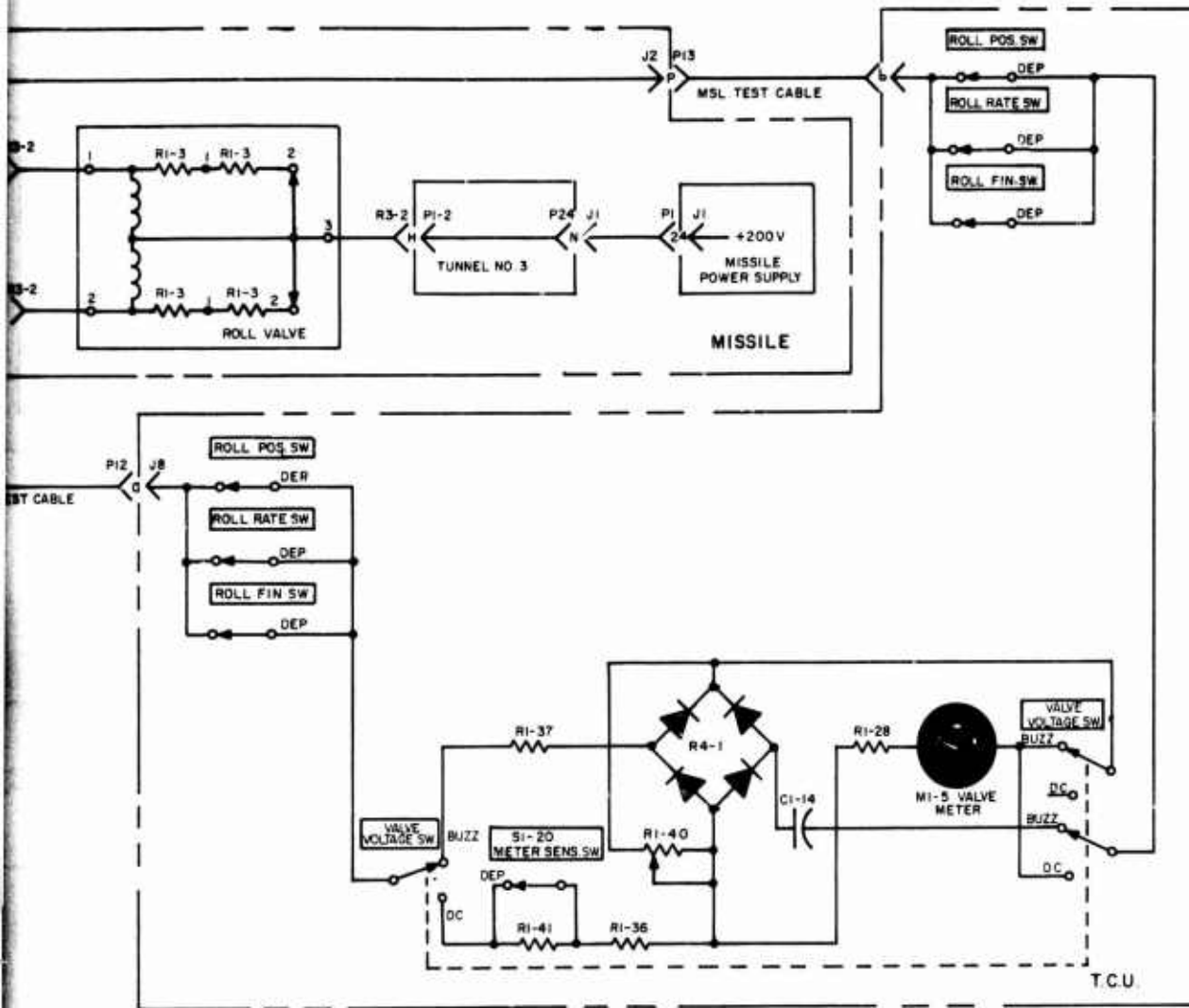
B

86



A

UNIDENTIFIED



INDEX TO SCHEMATIC DIAG

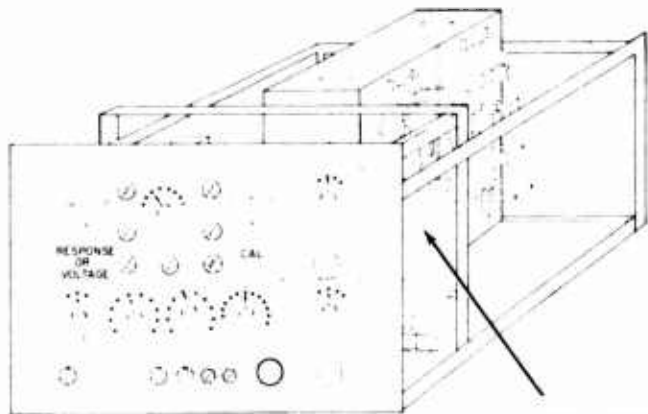
RF TEST SET

	Page	
Yaw Oscillator		Burst
Simplified Schematic	201	S
Detailed Schematic	203	D
Pitch Oscillator		Power
Simplified Schematic.....	205	Filam
Detailed Schematic	207	Filam
Burst Oscillator		Waveg
Simplified Schematic	209	Cabin
Detailed Schematic	211	Upper
Reference Oscillator		Lower
Simplified Schematic	213	
Detailed Schematic	215	
Command Modulator		ANTEN
Simplified Schematics		Schem
CCS: 2000	217	
CCS: 1600	219	MISSILE
CCS: 2400	221	
CCS: BAL	223	AGC V
CCS: YAW	225	S
CCS: PITCH	227	D
CCS: BURST	229	Module
CCS: TIME	231	S
CCS: MEAS	233	D
Detailed Schematic	235	Signal
Oscilloscope		S
Simplified Schematic	237	
Detailed Schematic	239	
Microsecond Oscillator		
Simplified Schematic	241	D
Detailed Schematic	243	Yaw C
Pulse Selector		S
Simplified Schematics		D
TSS: TEST SIG	245	Pitch
TSS: REC SENS & TRANS TEST	247	S
TSS: RESP TIME A & B	249	D
TSS: COMM SIG	251	Roll C
Detailed Schematic	253	S
Pulser		D
Simplified Schematics		Power
TSS: TEST SIG	255	Recei
TSS: REC SENS	257	Guida
TSS: TRANS TEST	259	Gyro C
TSS: RESP TIME A	261	Guida
TSS: RESP TIME B	263	Steer
TSS: COMM SIG	265	Roll C
Detailed Schematic	267	S
Signal Generator	269	D
Power Measuring		Power
Simplified Schematic	271	Recei
Detailed Schematic	273	Guida
Response Indicator		Gyro C
Simplified Schematic	275	Guida
Detailed Schematic	277	Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida
		Gyro C
		Guida
		Steer
		Roll C
		S
		D
		Power
		Recei
		Guida

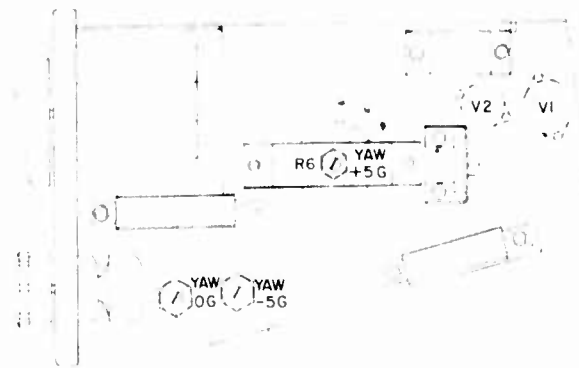
Page		Page
..... 201	Burst timer	
..... 203	Simplified Schematic	279
..... 205	Detailed Schematic	281
..... 207	Power Supply	283
..... 209	Filament I	284
..... 211	Filament II	285
..... 213	Waveguide Assembly	287
..... 215	Cabinet Assembly	289
..... 217	Upper Drawer	290
..... 219	Lower Drawer	291
..... 221	ANTENNA COUPLER	
..... 223	Schematic	287
..... 225	MISSILE	
..... 227	AGC Video Amplifier Decoder	
..... 229	Simplified Schematic	293
..... 231	Detailed Schematic	295
..... 233	Modulator, Missile	
..... 235	Simplified Schematic	297
..... 237	Detailed Schematic	299
..... 239	Signal Data Converter	
..... 241	Simplified Schematics	
..... 243	Yaw	301
..... 245	Pitch	303
..... 247	Burst	305
..... 249	Detailed Schematic	307
..... 251	Yaw Control Amplifier	
..... 253	Simplified Schematic	309
..... 255	Detailed Schematic	311
..... 257	Pitch Control Amplifier	
..... 259	Simplified Schematic	313
..... 261	Detailed Schematic	315
..... 263	Roll Control Amplifier	
..... 265	Simplified Schematic	317
..... 267	Detailed Schematic	319
..... 269	Power Supply Missile	321
..... 271	Receiver Transmitter	322
..... 273	Guidance Section Interconnecting Schematic I	322
..... 275	Gyro Control System	323
..... 277	Guidance Section Interconnecting Schematic II	323
	Steering Fin Control Section	324
	Roll Control Surface Section	324
	Missile Wiring Diagram	324
	T P C U	
	Wiring Diagram	325
	T C U	
	Panel Wiring Diagram	326-7

B

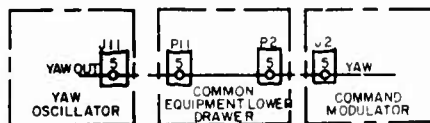
CONFIDENTIAL



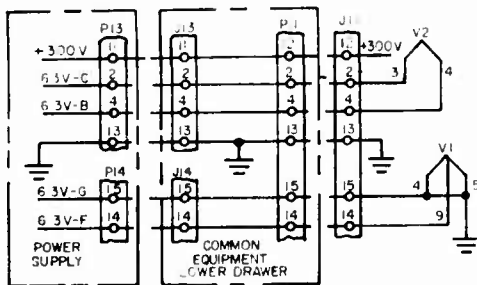
MISSILE R-F TEST SET LOWER DRAWER YAW OSCILLATOR



YAW OSCILLATOR SIDE VIEW



SIGNAL DISTRIBUTION

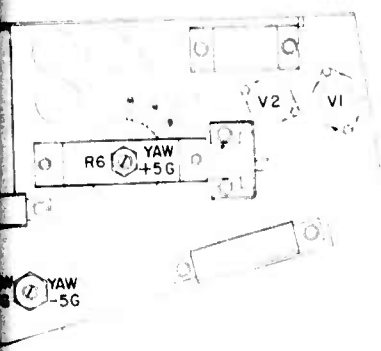


POWER DISTRIBUTION

CONFIDENTIAL

A

D



NOTE:

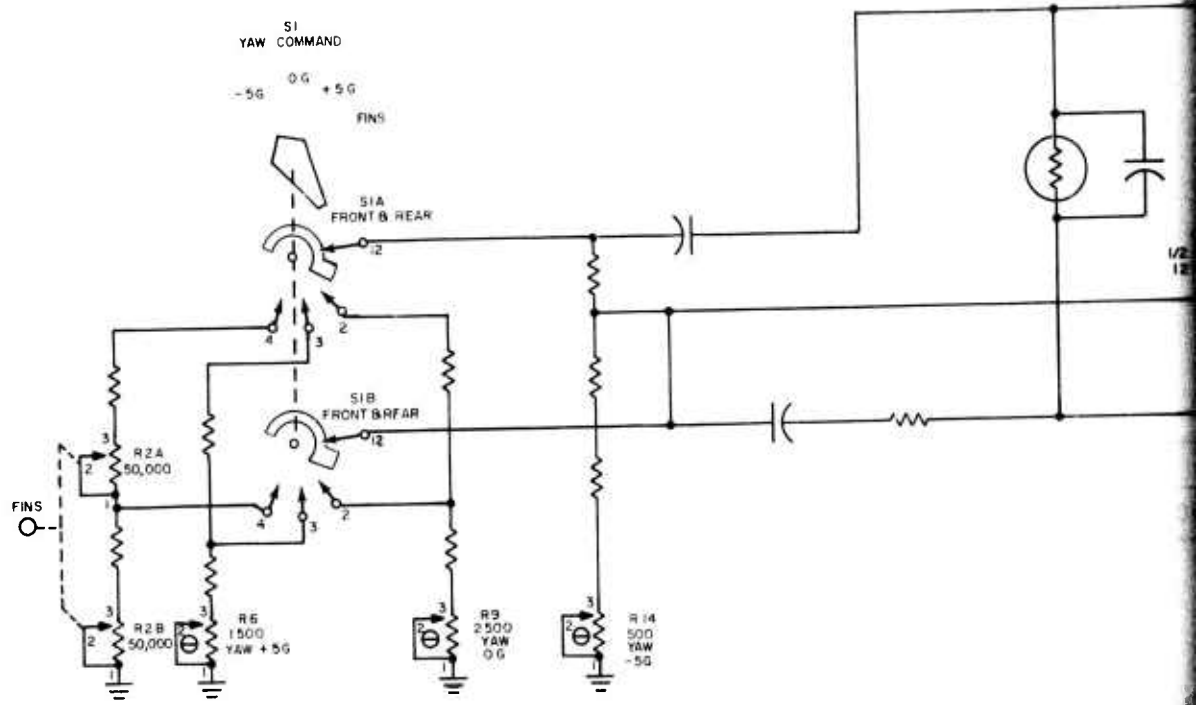
1. TERMINALS 1, 3, 6, 7, 8, 9, 10 AND 11 ON J11 ARE NOT USED

OSCILLATOR SIDE VIEW

B

~~CONFIDENTIAL~~

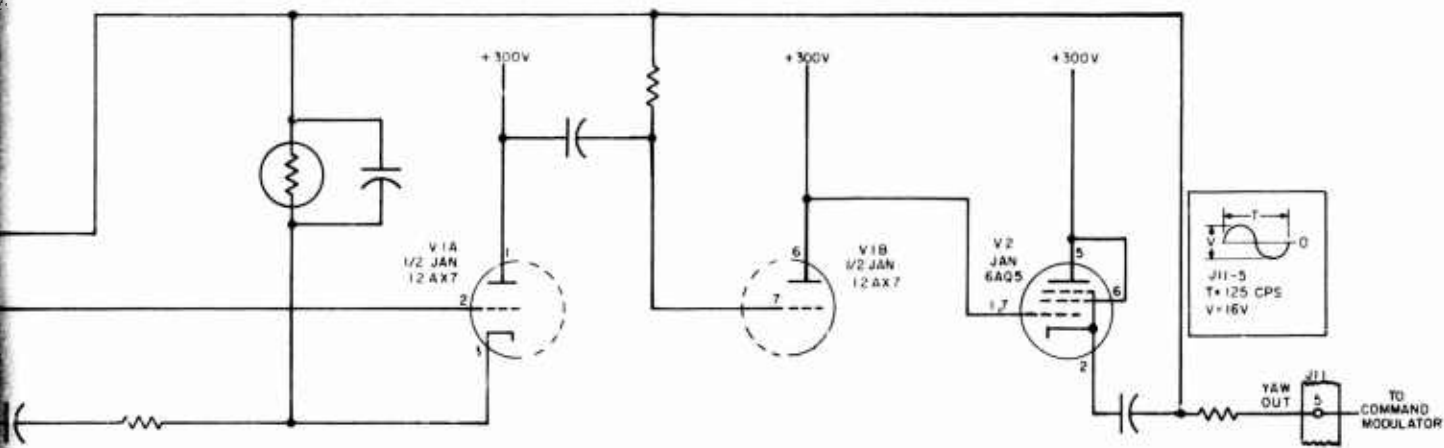
UNCLASSIFIED



A

~~CONFIDENTIAL~~

IED



R-F TEST SET YAW OSCILLATOR SIMPLIFIED SCHEMATIC

B

~~CONFIDENTIAL~~

UNCLASSIFIED

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			CONTROL		
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE															

R-F TEST SET YAW OSCILLATOR, NOTES

~~CONFIDENTIAL~~

A

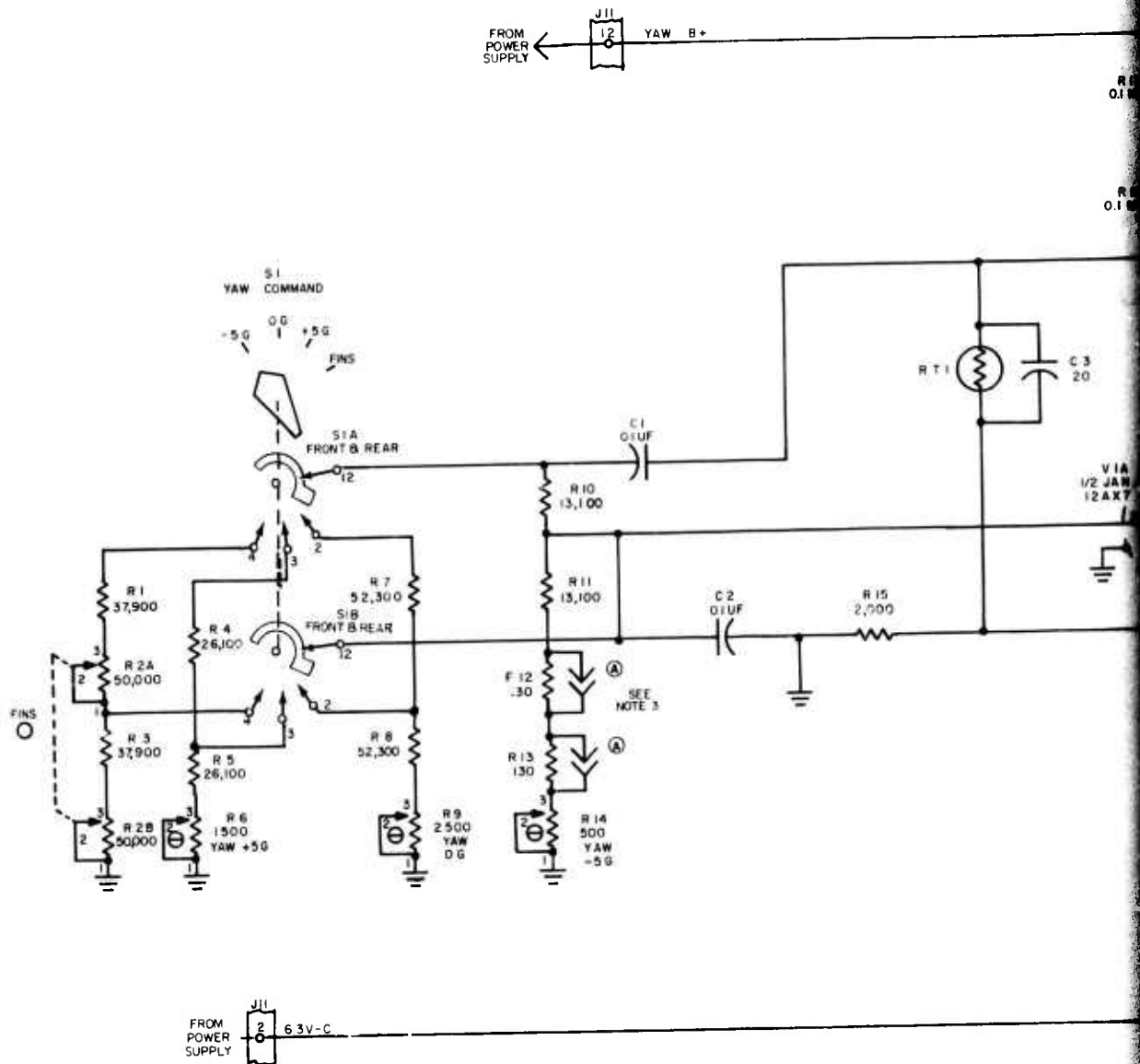
CLASSIFIED

NOTES:
1. TERMINALS 1,3,6,7,8,9,10 AND 11 ON J11 ARE NOT USED.

SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
NOT AVAILABLE											

B

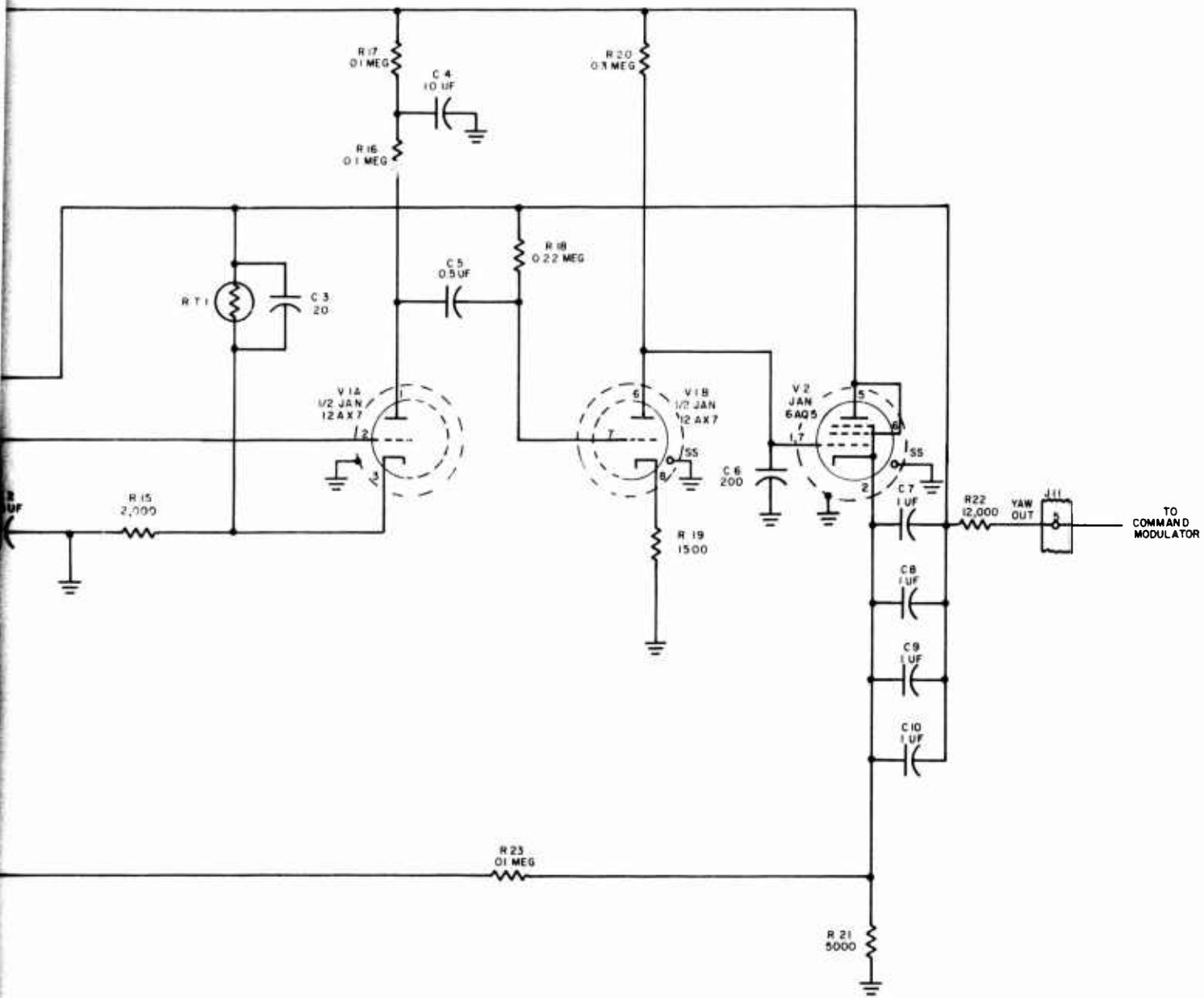
~~CONFIDENTIAL~~ UNCLASSIFIED



A

~~CONFIDENTIAL~~ UNCLASSIFIED

UNCLASSIFIED



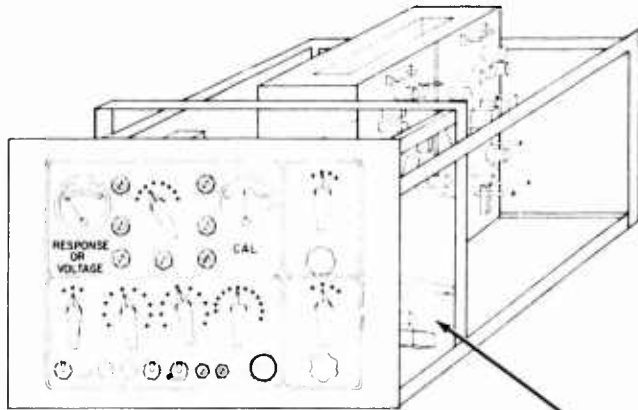
GS-15739 R-F TEST SET YAW OSCILLATOR

UNCLASSIFIED

UNCLASSIFIED

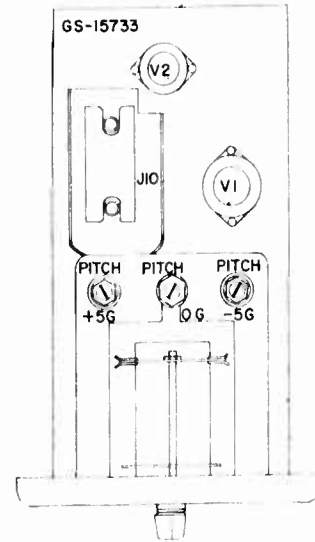
B

~~CONFIDENTIAL~~ UNCLASSIFIED

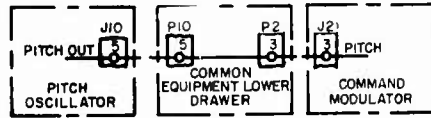


MISSILE R-F TEST SET LOWER DRAWER

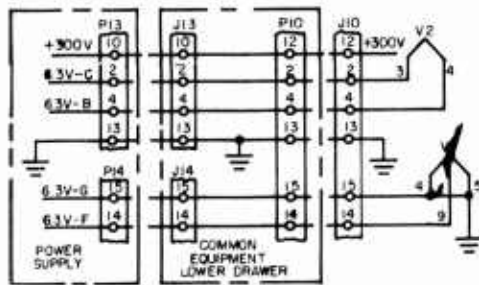
PITCH OSCILLATOR



PITCH OSCILLATOR TOP VIEW



SIGNAL DISTRIBUTION

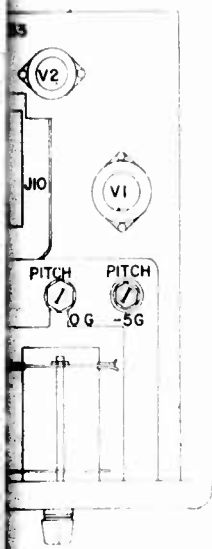


POWER DISTRIBUTION

GS-15738 R-F TEST SET PITCH OSCILLATOR, NOTES

A

~~SECRET~~
UNCLASSIFIED



NOTE:

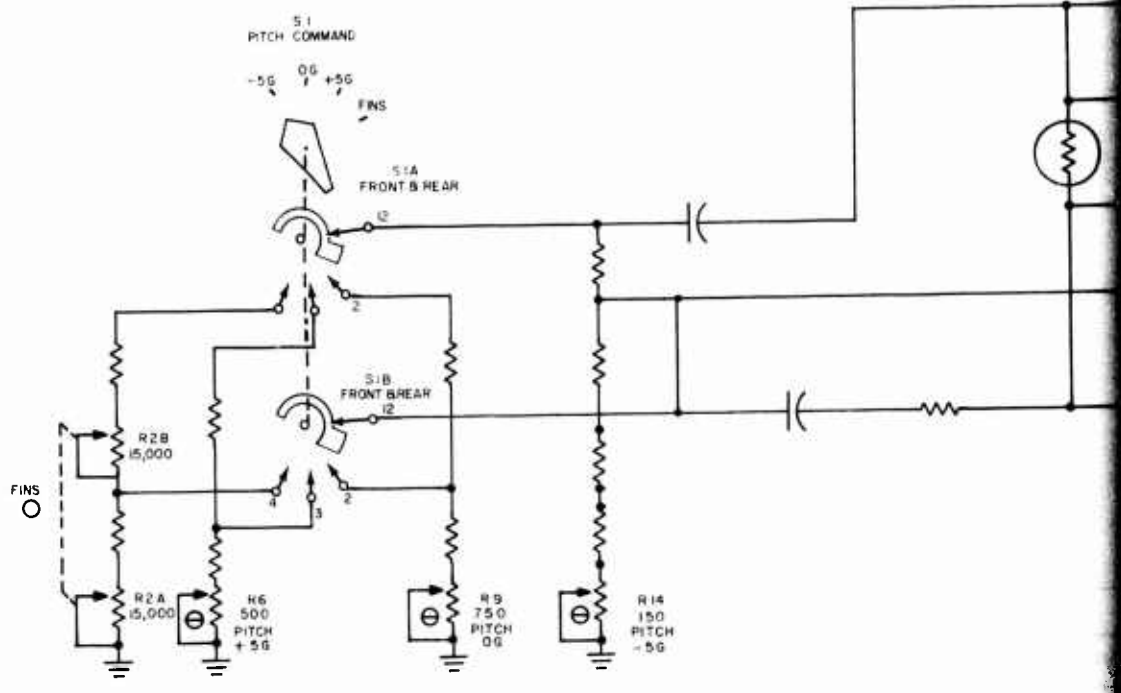
1. TERMINALS 1, 3, 6, 7, 8, 9, 10, AND 11 ON J10 ARE NOT USED.

OSCILLATOR TOP VIEW

B

~~CONFIDENTIAL~~

UNCLASSIFIED



~~CONFIDENTIAL~~

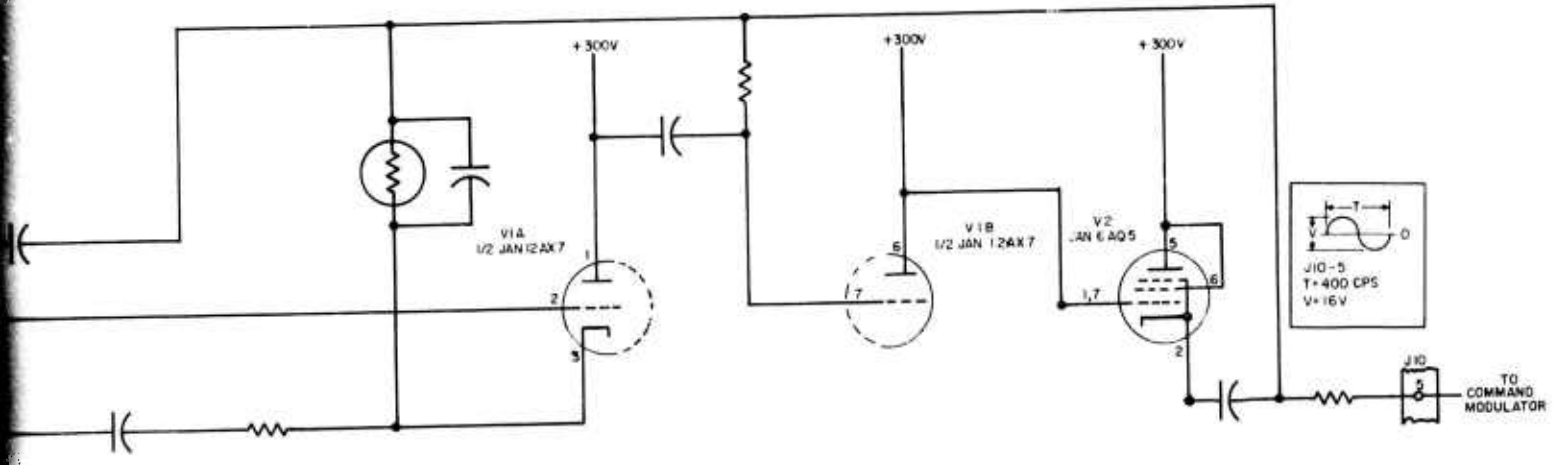
A

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL



R-F TEST SET PITCH OSCILLATOR SIMPLIFIED SCHEMATIC

8

~~CONFIDENTIAL~~

UNCLASSIFIED

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			CONTROL		
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	
THIS DATA NOT AVAILABLE															

R-F TEST SET PITCH OSCILLATOR, NOTES

A

~~CONFIDENTIAL~~



NOTES:
I. TERMINALS 13678910 AND 11 ON J10 ARE NOT USED.

SCREEN		CONTROL			CATHODE			FILAMENT		
VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
AVAILABLE										

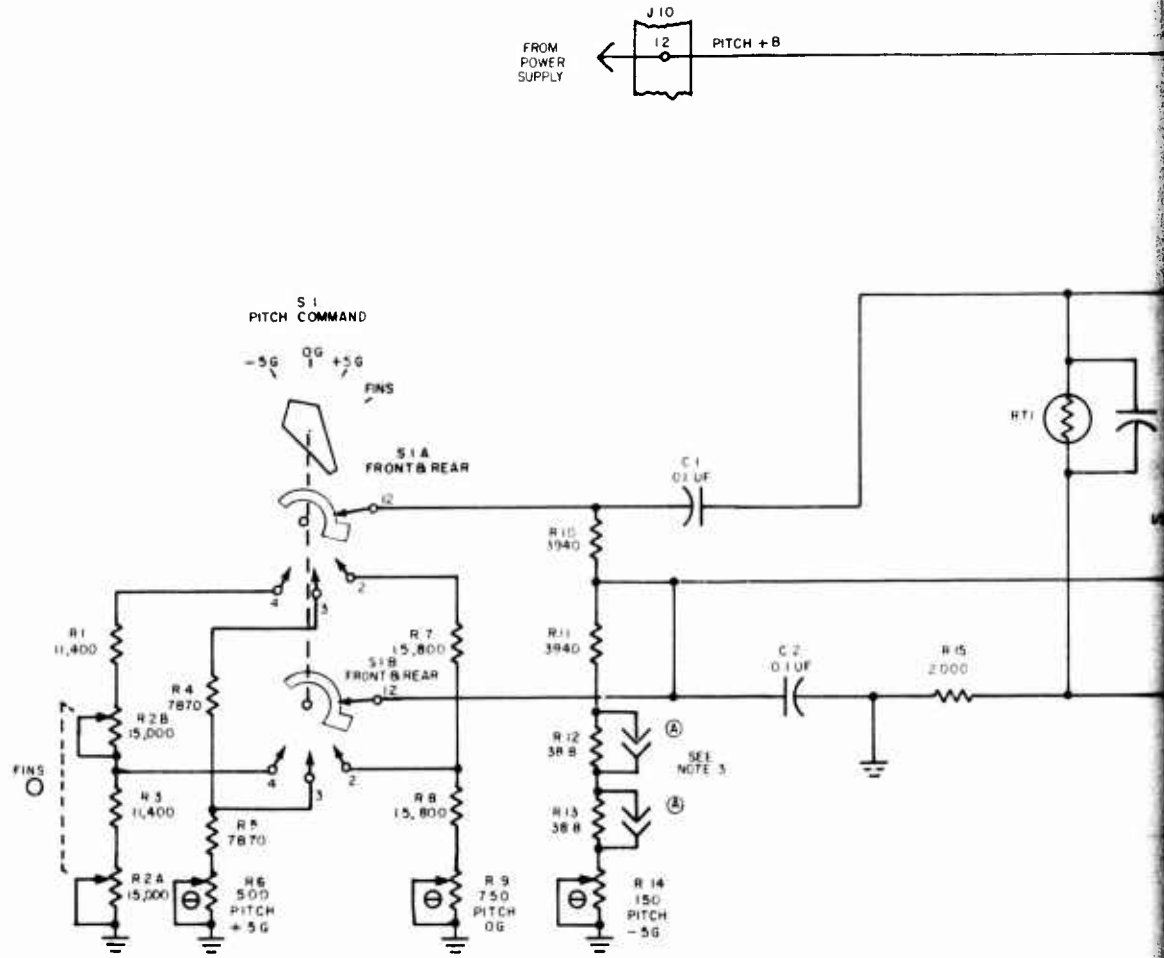
EE
TIAL



13

~~CONFIDENTIAL~~

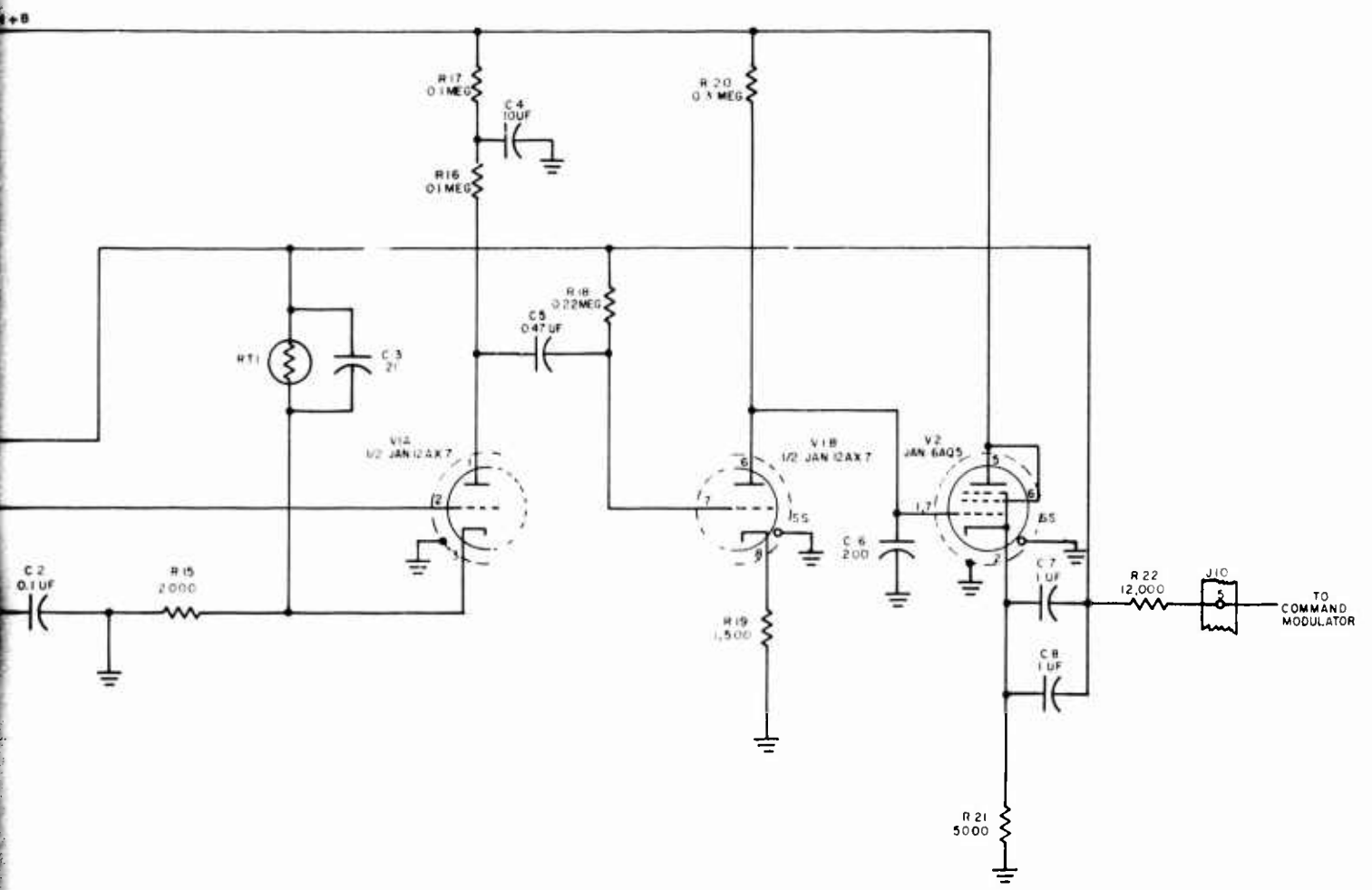
UNCLASSIFIED



A

~~CONFIDENTIAL~~

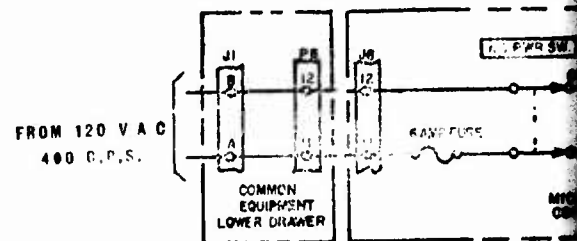
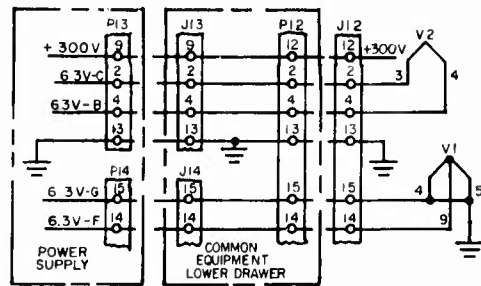
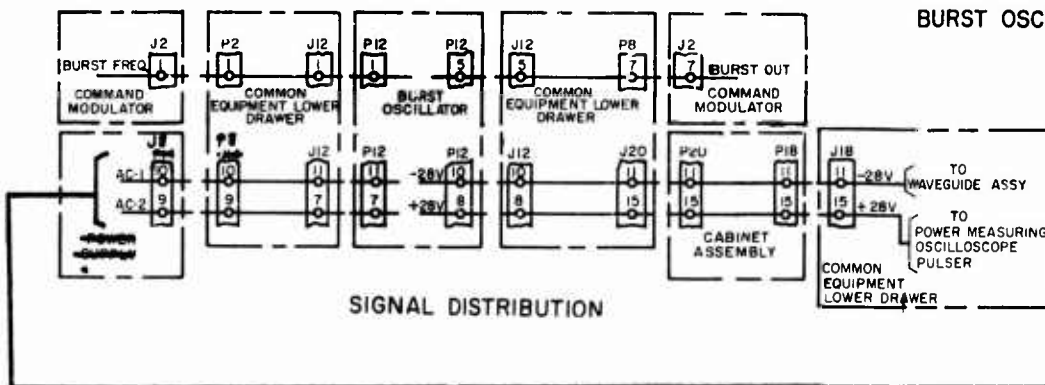
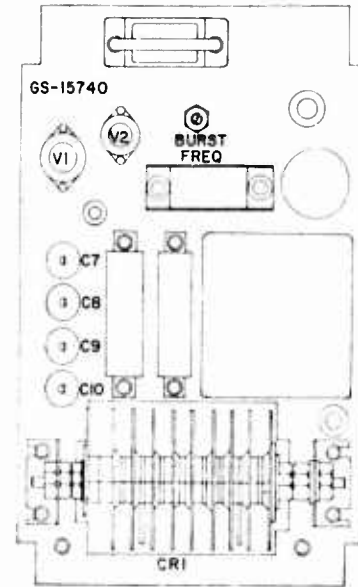
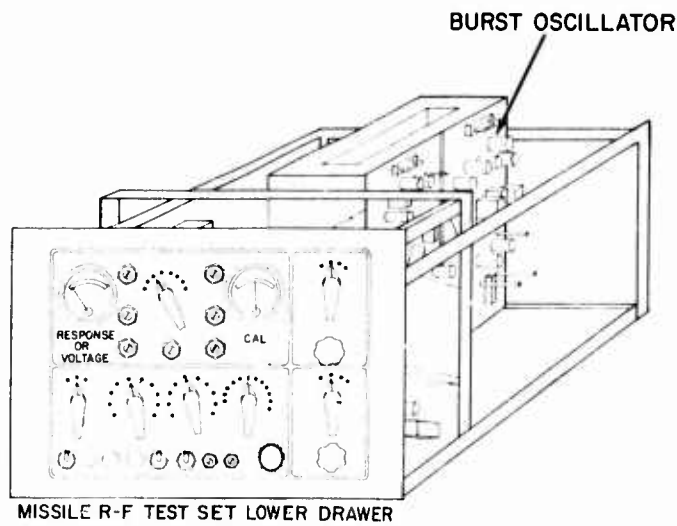
INITIAL
IFIED



GS-15738 R-F TEST SET PITCH OSCILLATOR

INITIAL
IFIED

B



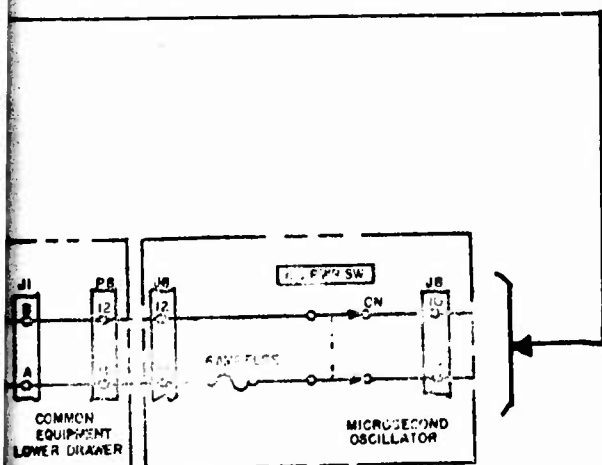
GS-15740 R-F TEST SET BURST OSCILLATOR ,NOTES

A

UNCLASSIFIED

NOTE:
1. TERMINALS 3, 6, AND 9 ON P12 ARE NOT USED.

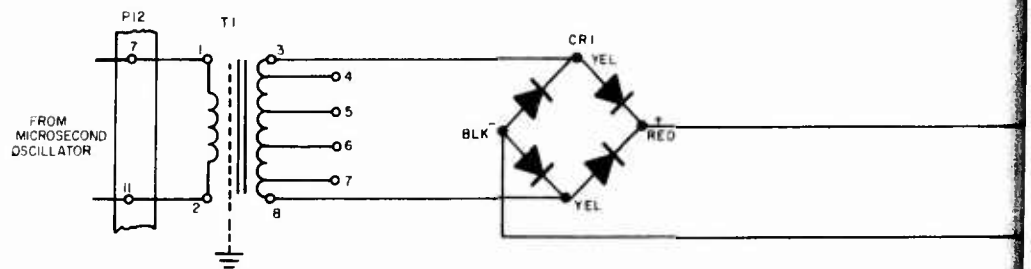
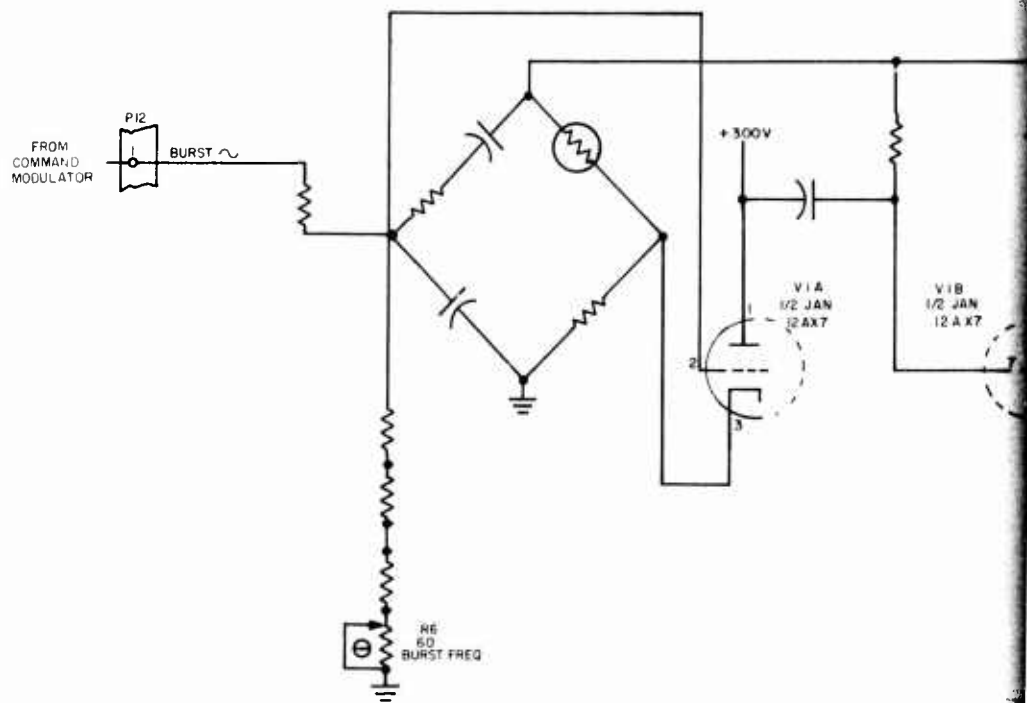
E VIEW



B

~~CONFIDENTIAL~~

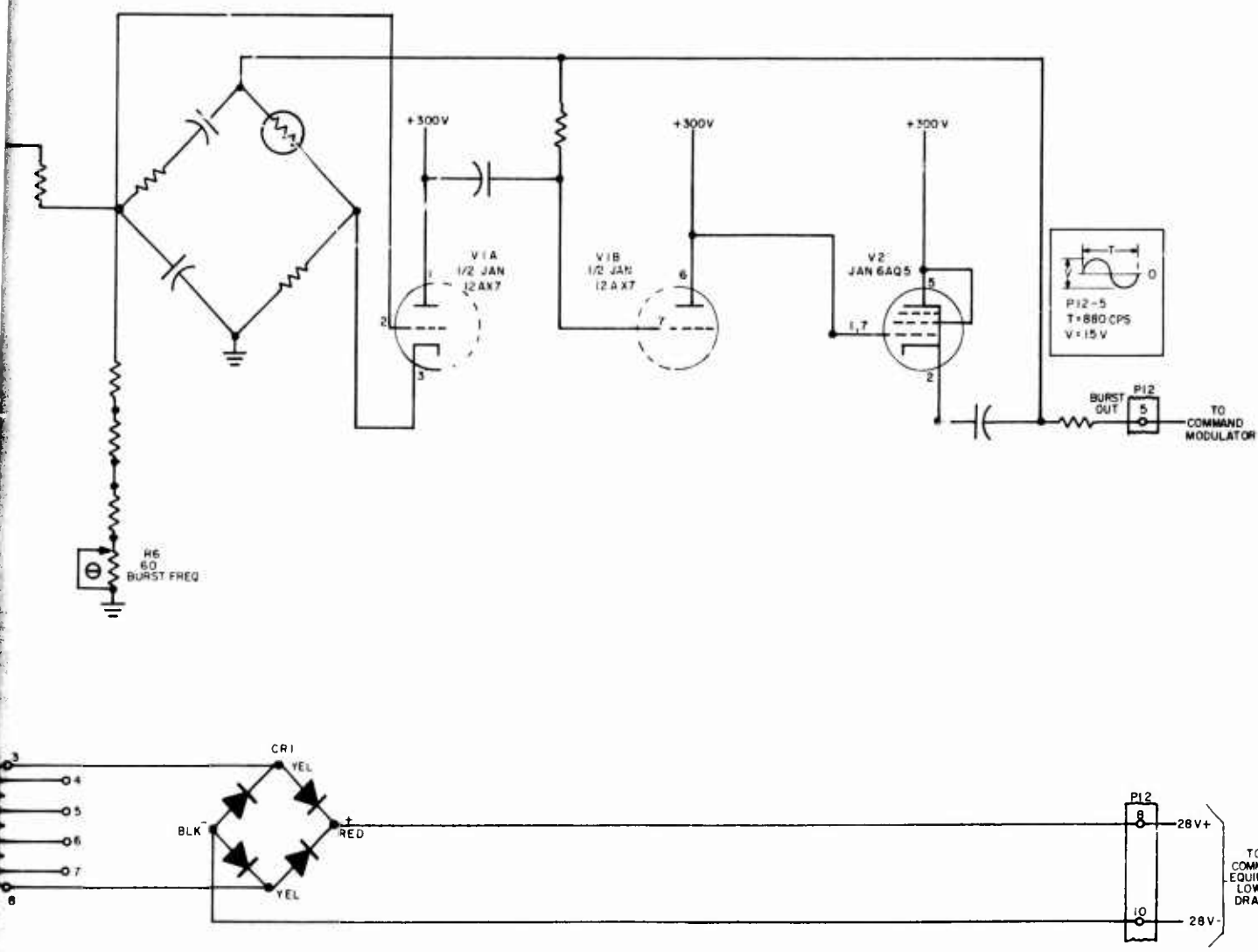
UNCLASSIFIED



~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

A



R-F TEST SET BURST OSCILLATOR SIMPLIFIED SCHEMATIC

B

UNCLASSIFIED
~~CONFIDENTIAL~~

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			CONTROL					
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS			

THIS DATA NOT AVAILABLE

A

~~CONFIDENTIAL~~

CLASSIFIED

[REDACTED]

[REDACTED]

NOTES:

1. TERMINALS 3689 ON P12 ARE NOT USED.

SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
A NOT AVAILABLE											

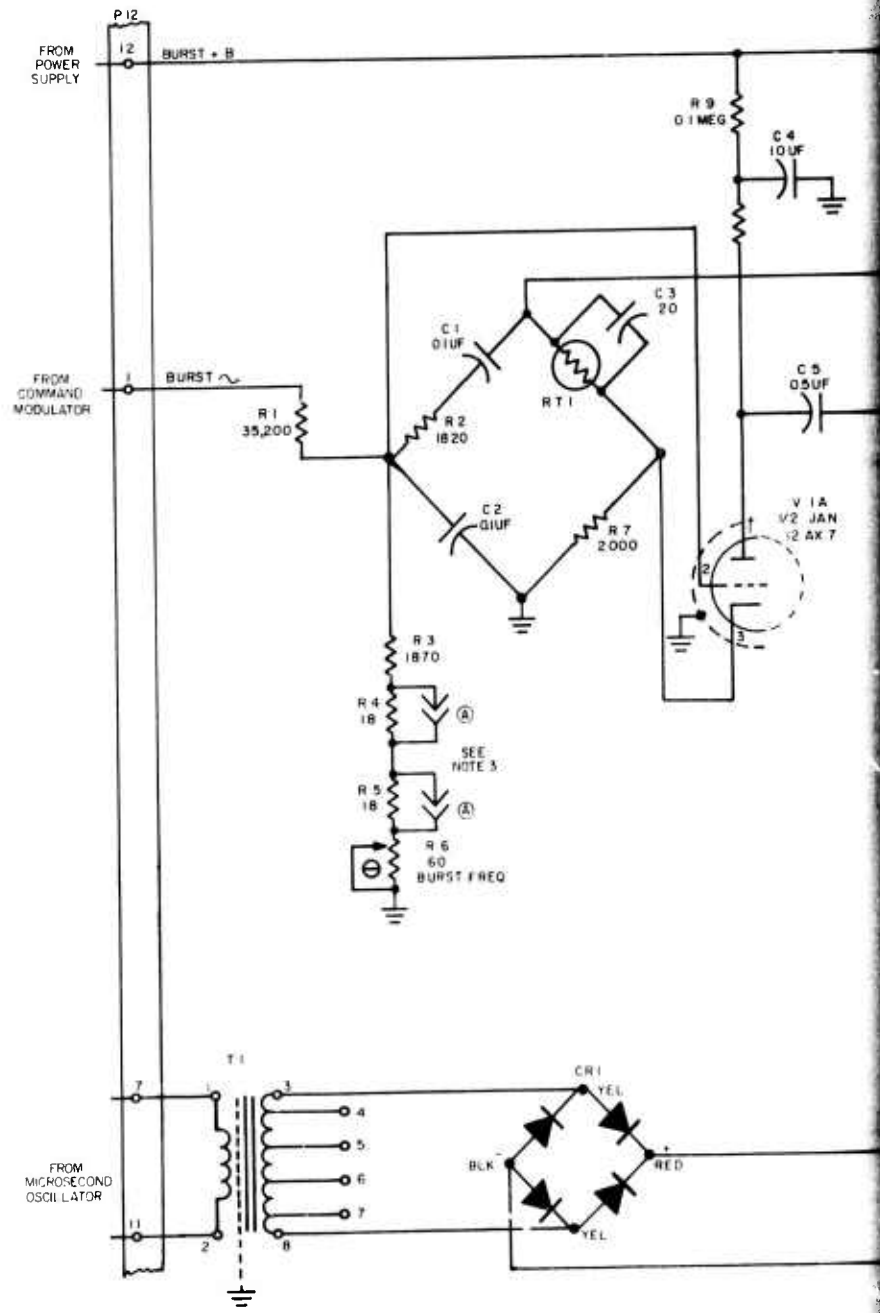
[REDACTED]

[REDACTED]

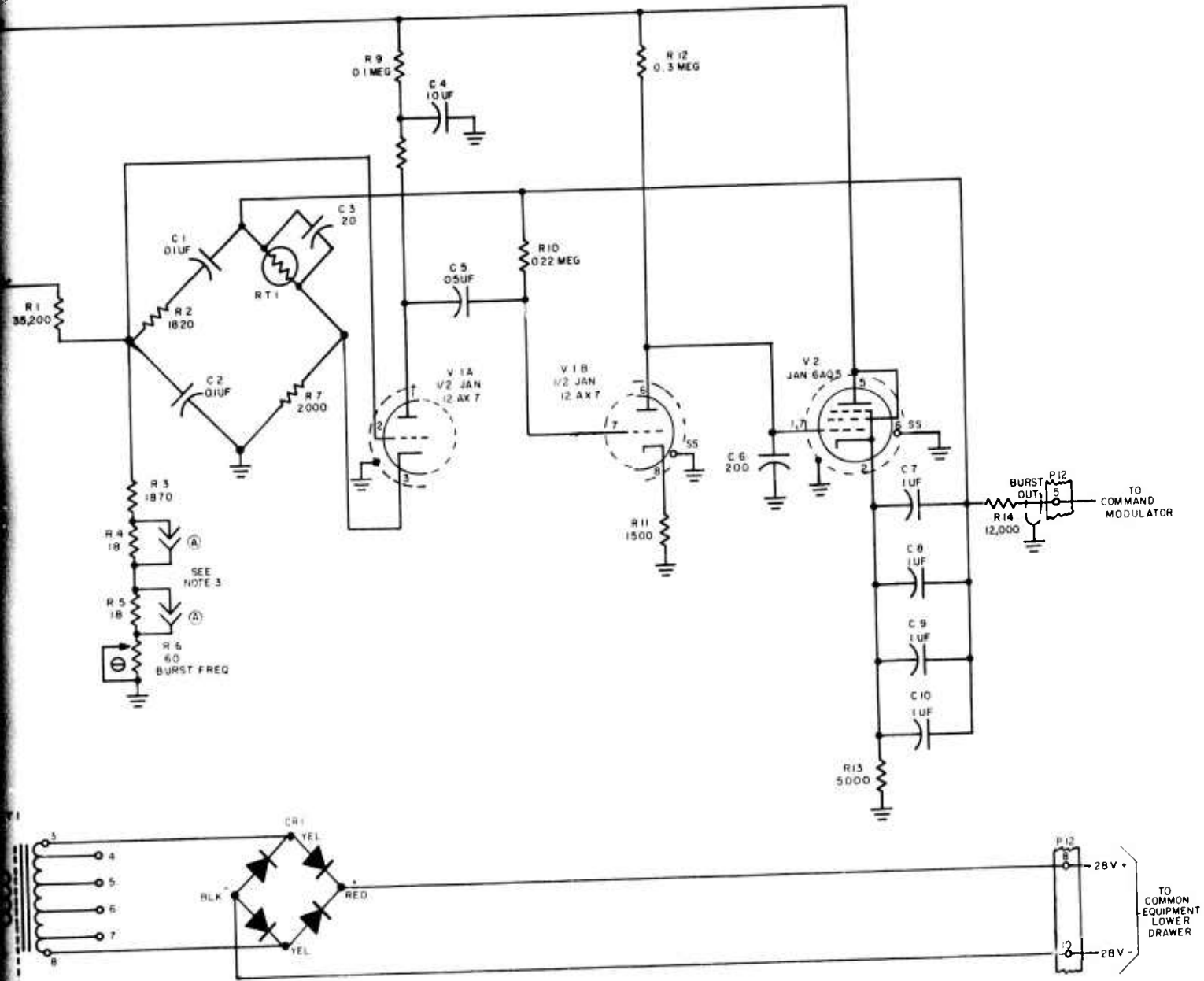
B

CONFIDENTIAL

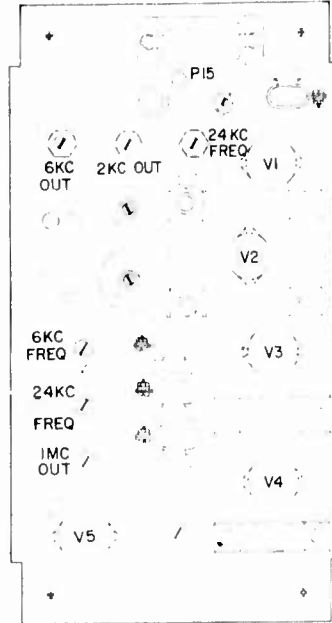
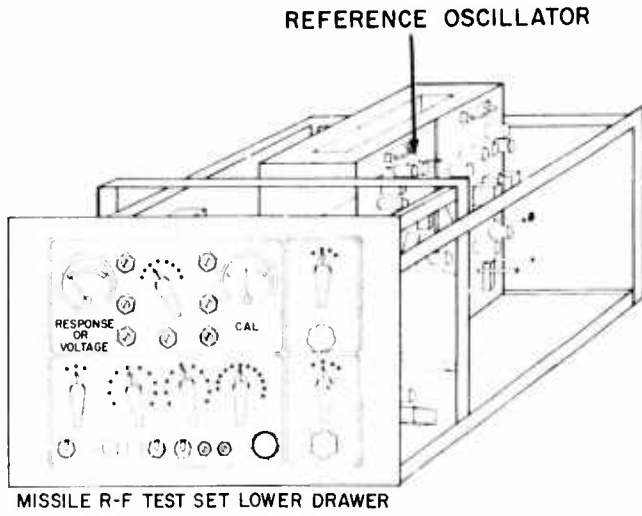
UNCLASSIFIED



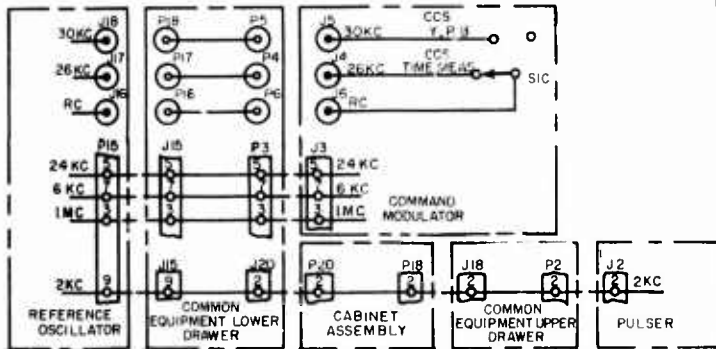
A



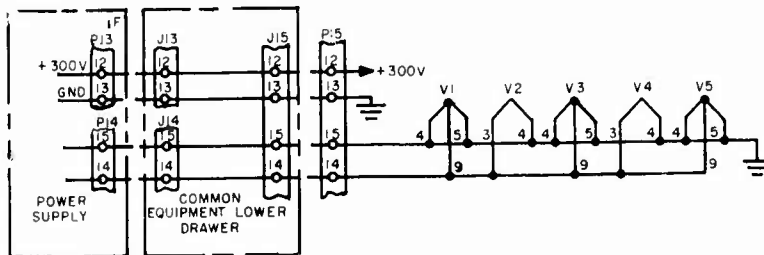
GS-15740 R-F TEST SET BURST OSCILLATOR



REFERENCE OSCILLATOR SIDE VIEW



SIGNAL DISTRIBUTION



GS-15742 R-F TEST SET REFERENCE OSCILLATOR, NOTES

A

ED



NOTE:

- 1. TERMINALS 1,2,4,6,8,10 AND 11 ON P15 ARE NOT USED.
- 2. WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS.

<u>SWITCH</u>	<u>POSITION</u>
COMMAND CAL	MEAS

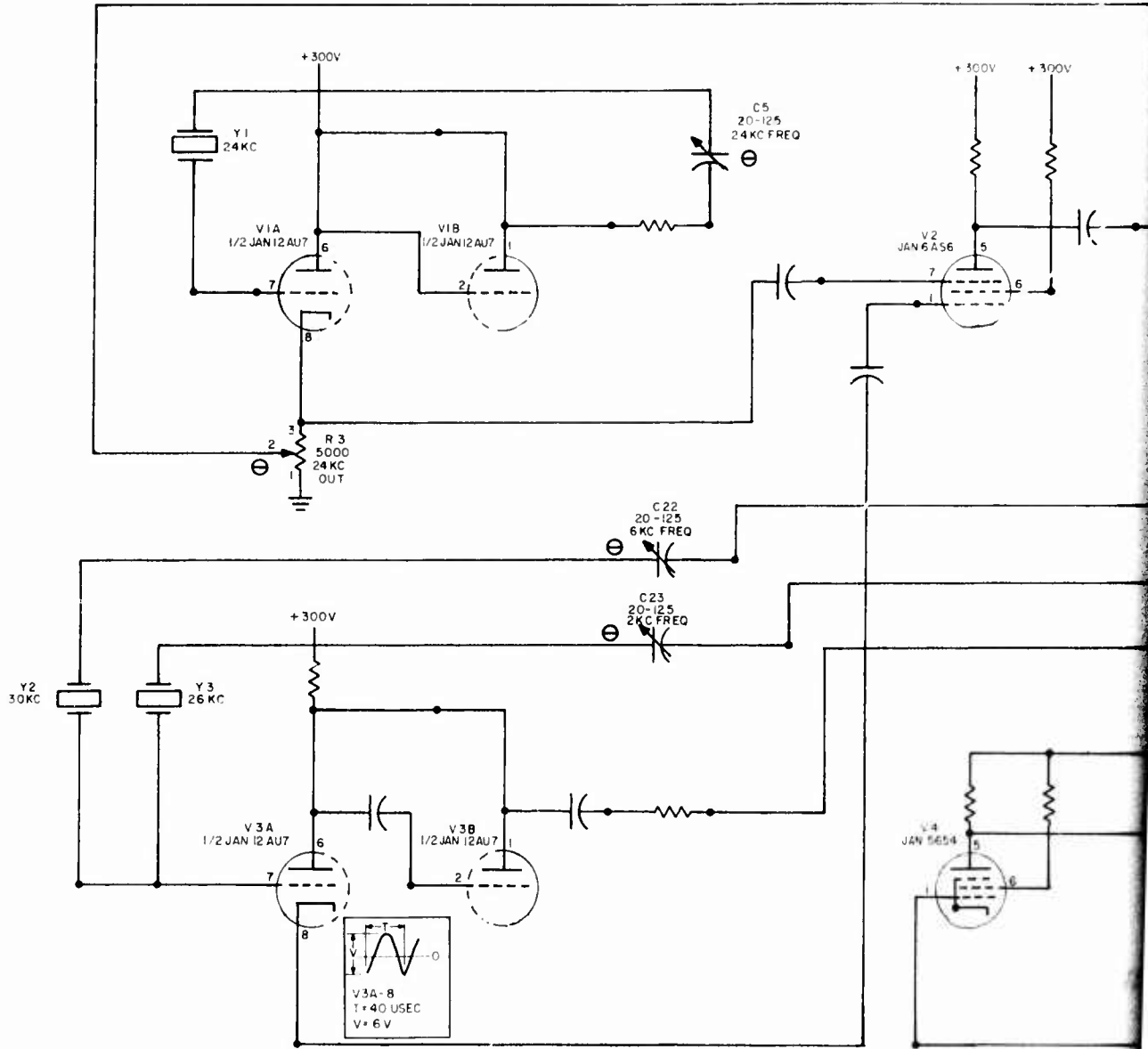
DR SIDE VIEW

11

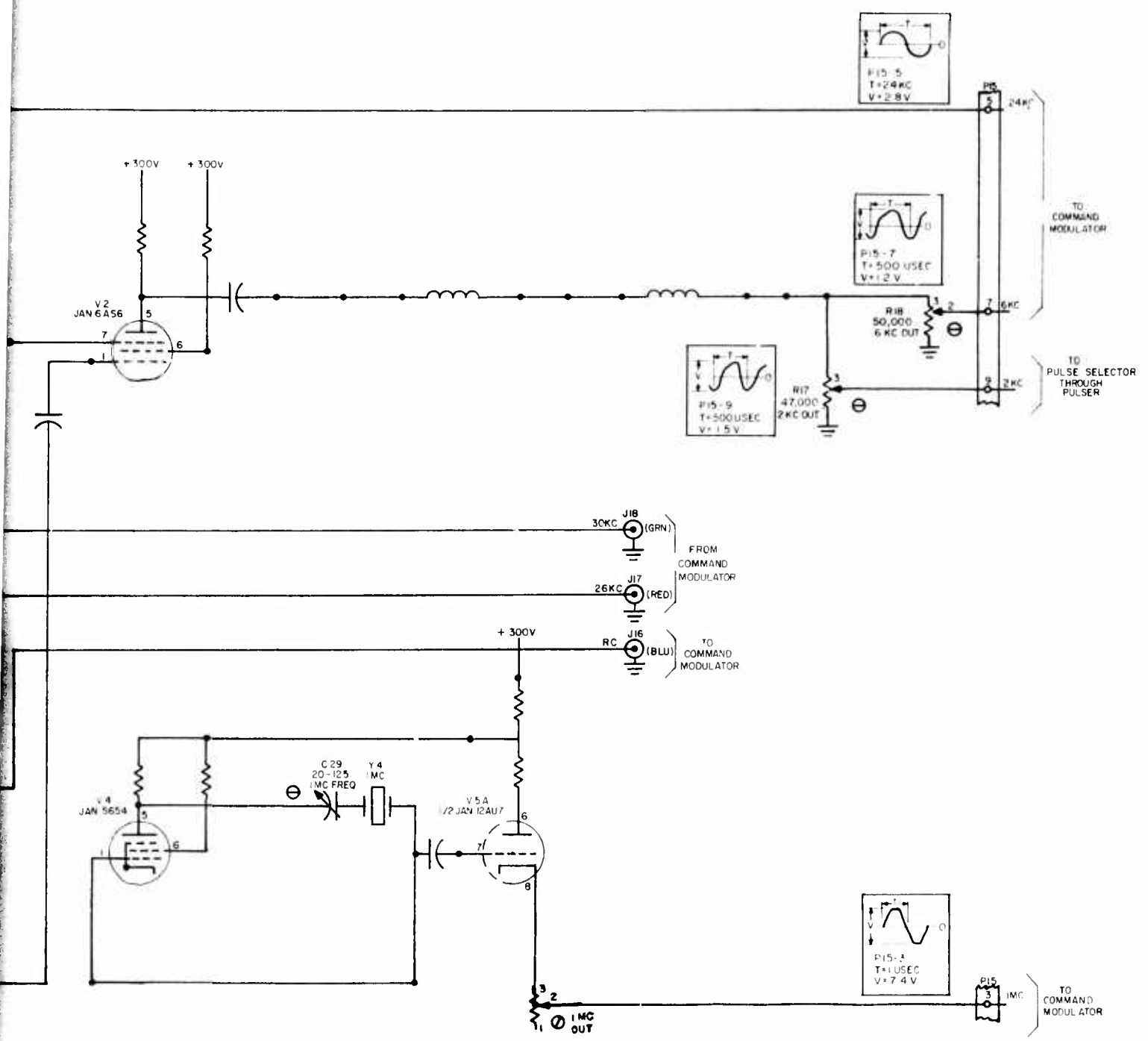
11



B



A



R-F TEST SET REFERENCE OSCILLATOR SIMPLIFIED SCHEMATIC

B

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			CONTROL					
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS			

THIS DATA NOT AVAILABLE

A

INITIAL

~~XXXXXXXXXX~~

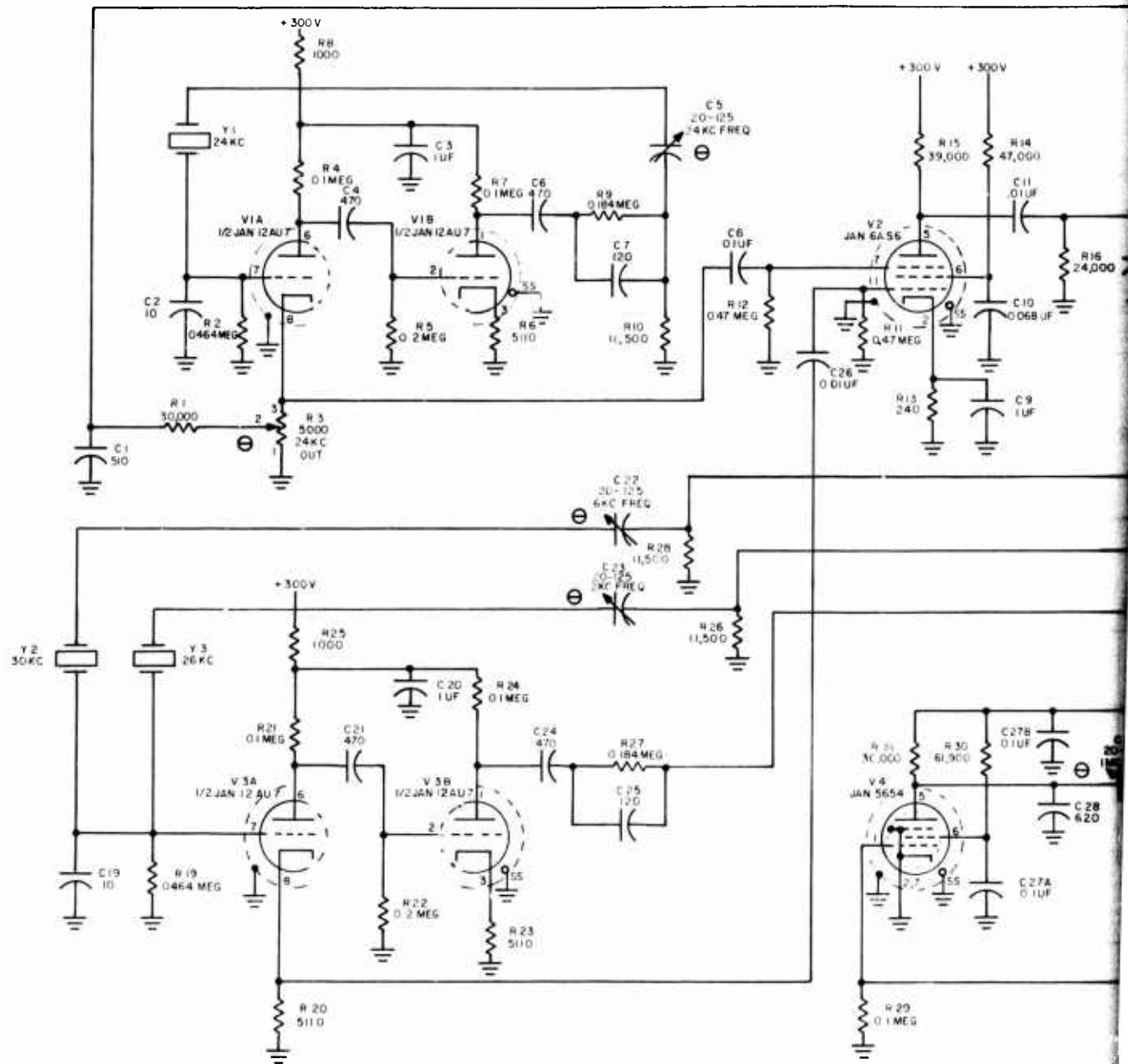
NOTES
TERMINALS 1 2 4 6 8 10 AND 11 ON P15 ARE NOT USED.

SCREEN		CONTROL			CATHODE			FILAMENT		
VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
AVAILABLE										

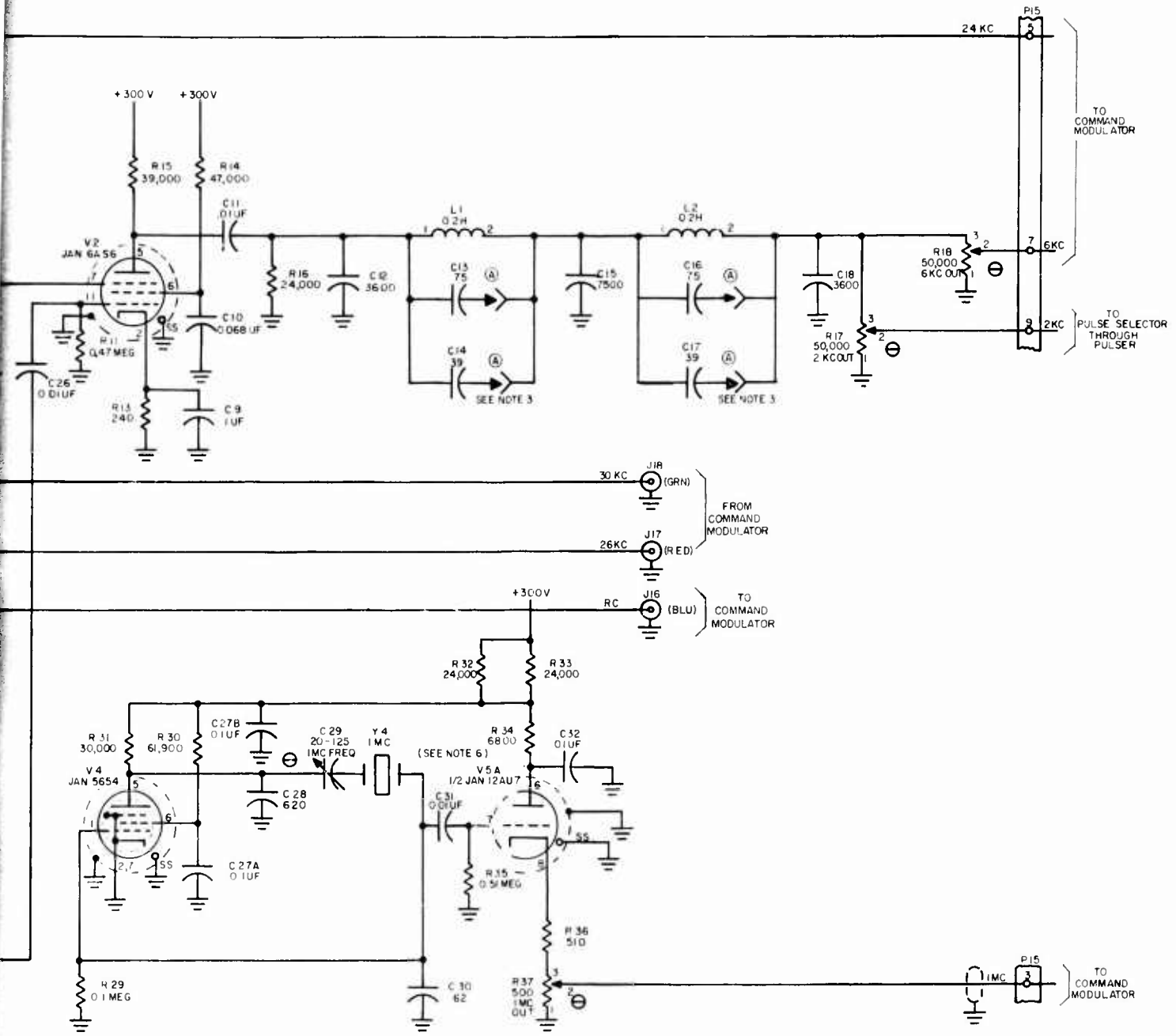
~~XXXXXXXXXX~~

13

UNCLASSIFIED



A

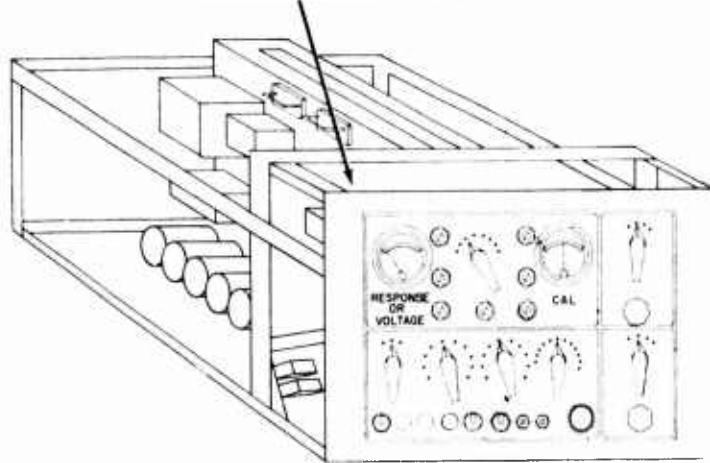


GS-15742 R-F TEST SET REFERENCE OSCILLATOR

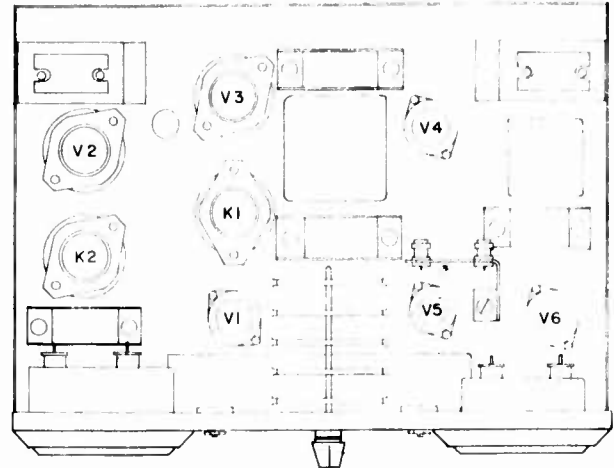


CONFIDENTIAL

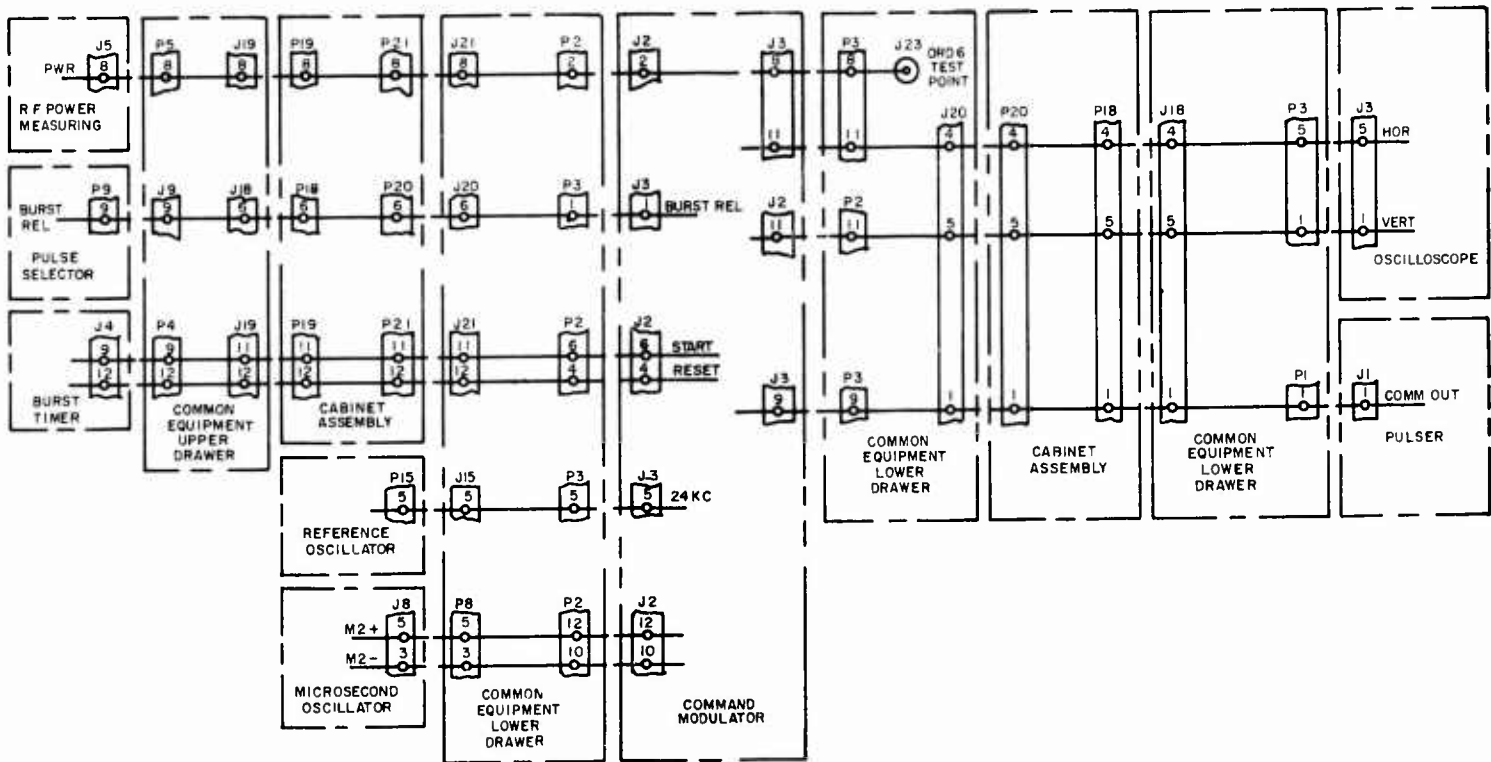
COMMAND MODULATOR



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW



SIGNAL DISTRIBUTION

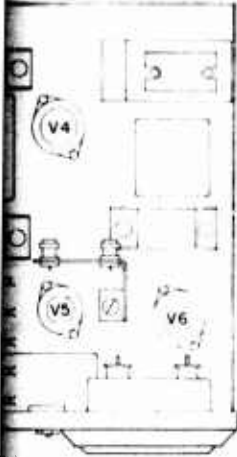
R-F TEST SET COMMAND MODULATOR ,NOTES (2000)

A

CONFIDENTIAL

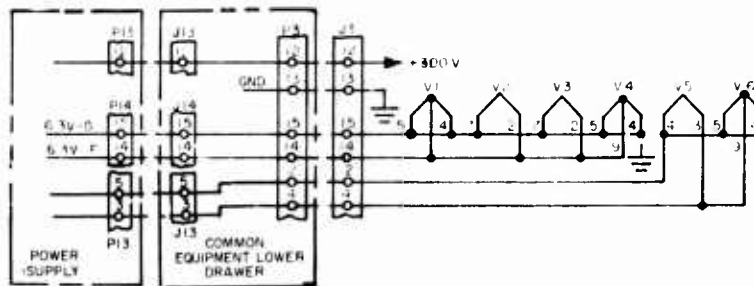
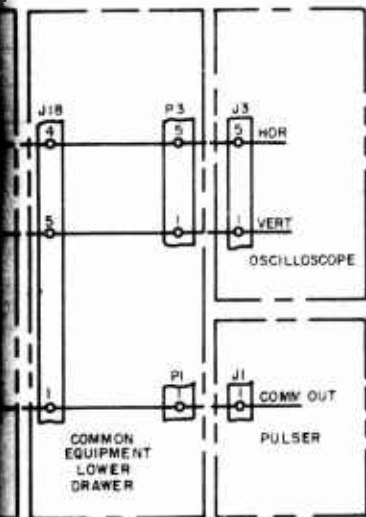
NOTES:

1. TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
2. TERMINALS 2, 3, 5, 6, 9, 10, 15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY.



TOP VIEW

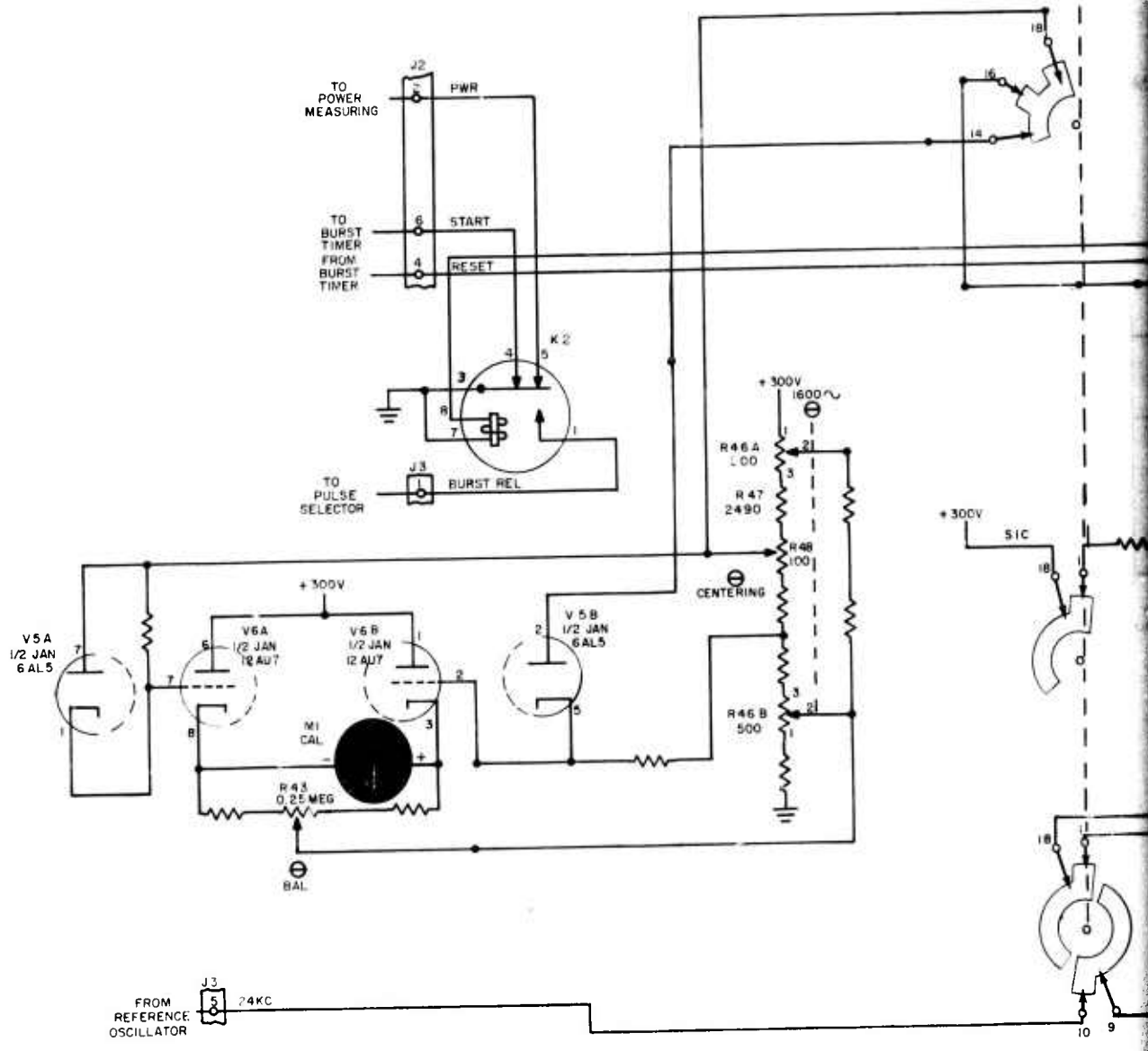
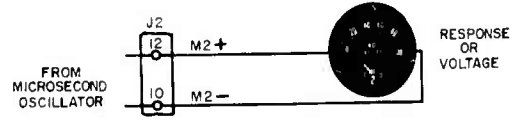
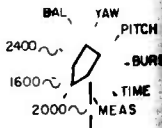
S1 SWITCH CONNECTION					
POSITION	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-19, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
BURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-12	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-8, 12-13	11-17	5-9, 14-16-17		1-3-18, 9-10



POWER DISTRIBUTION

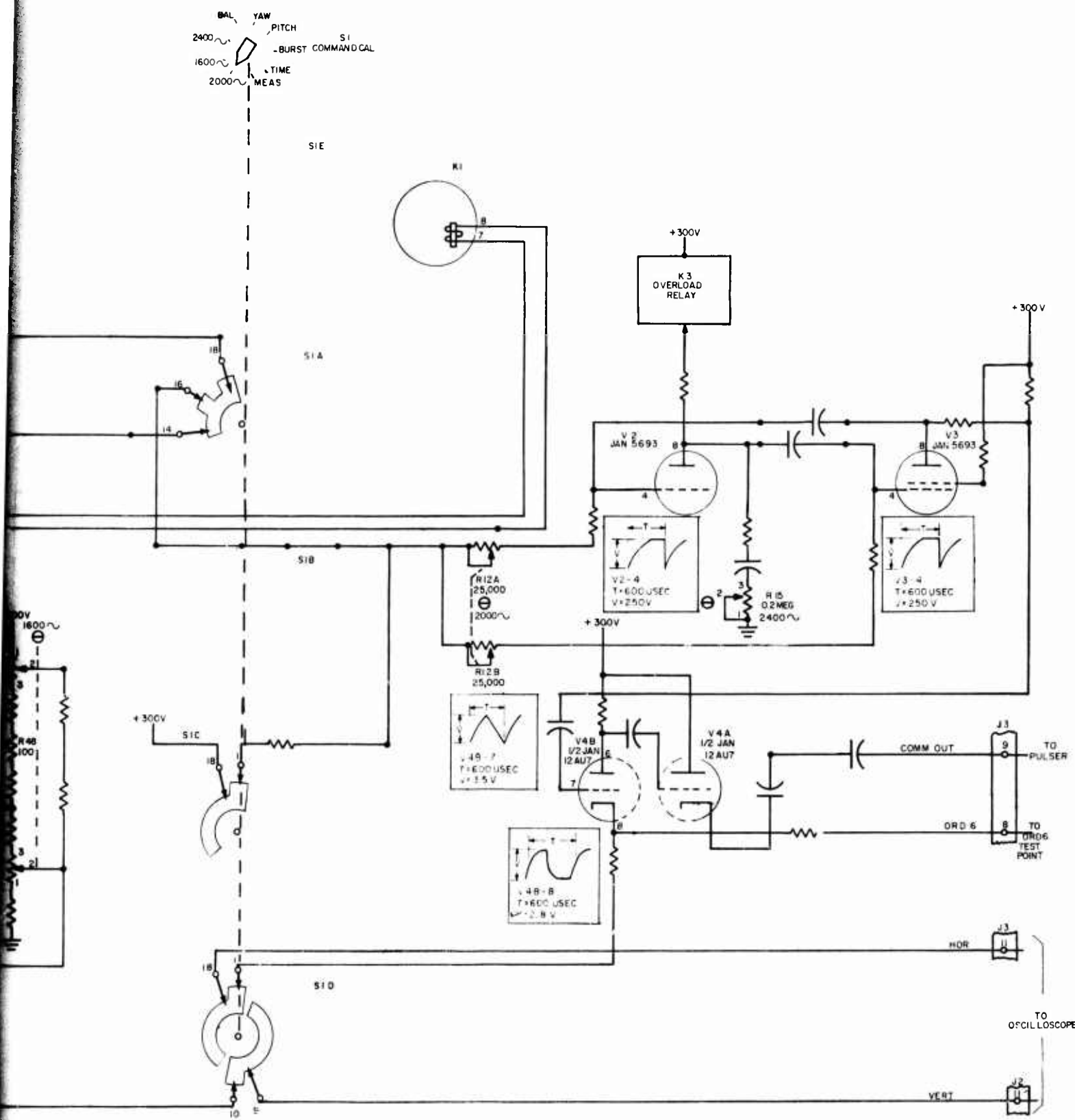
CONFIDENTIAL

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

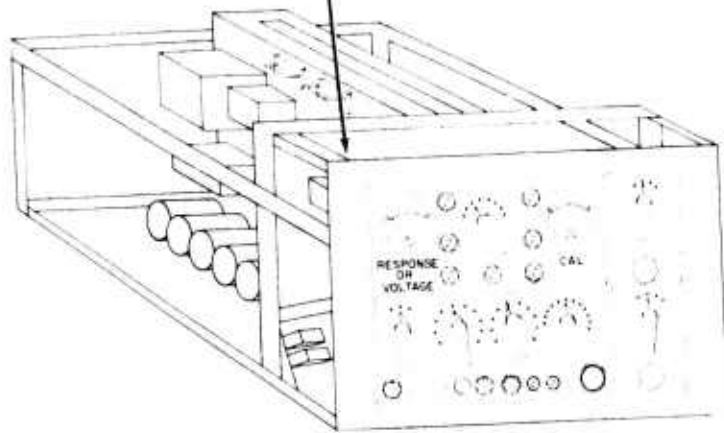
A



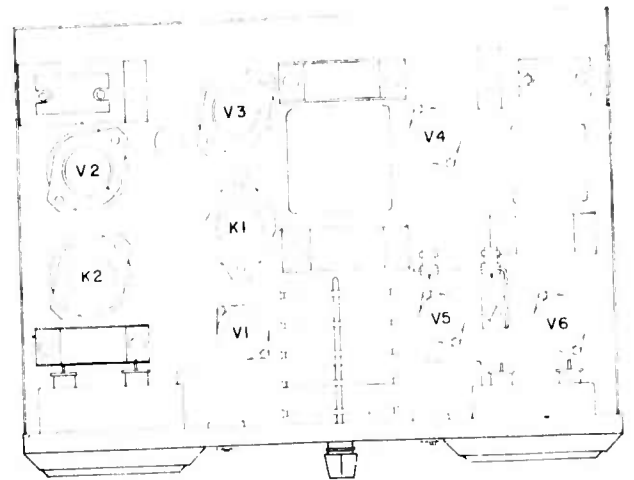
R-F TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (2000~)

B

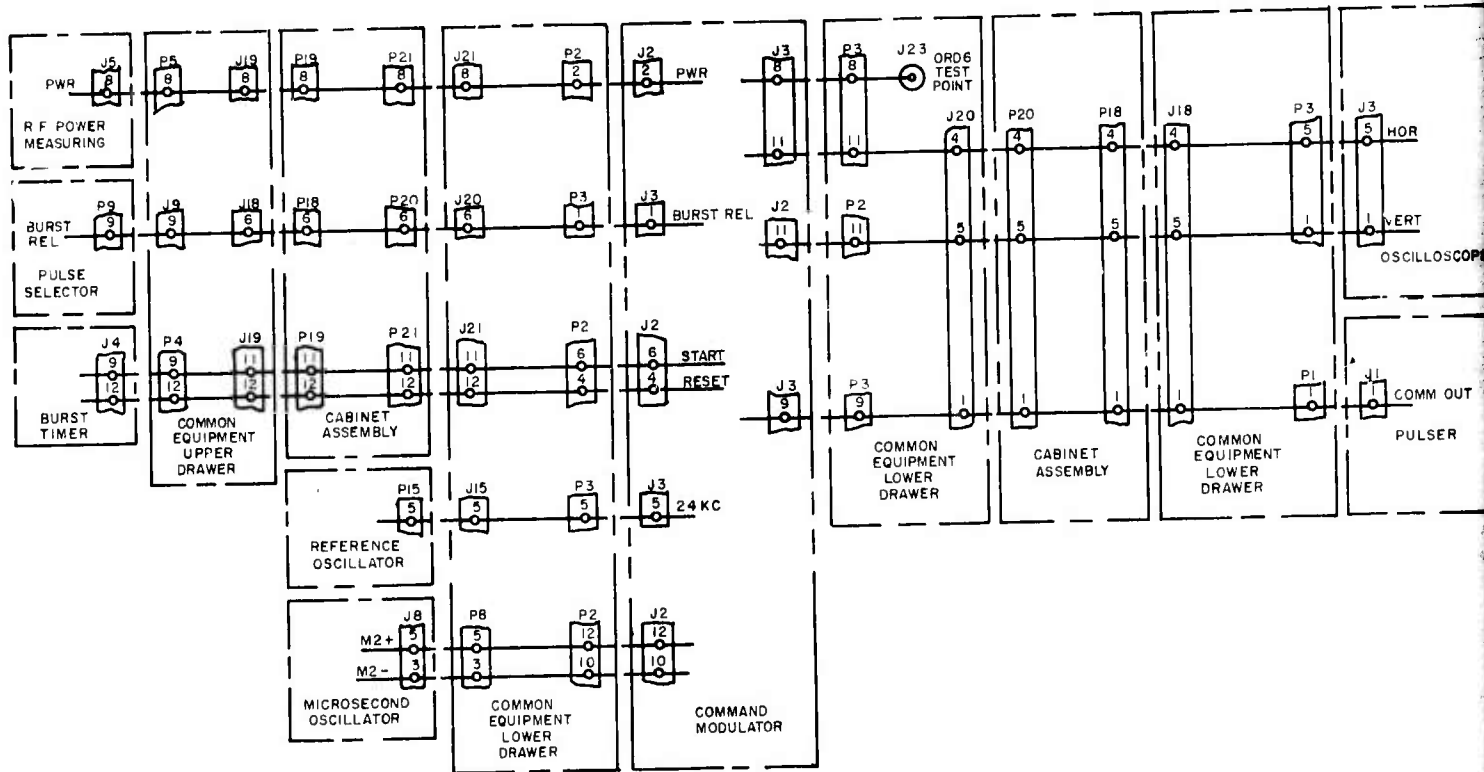
COMMAND MODULATOR



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW

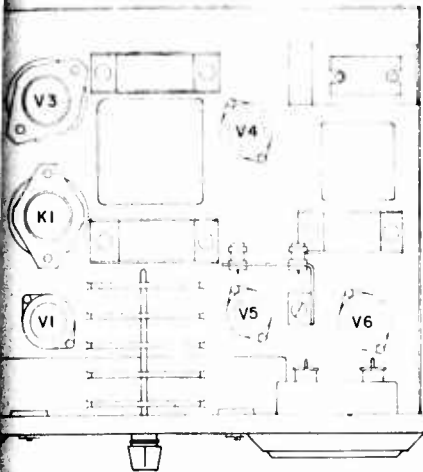


SIGNAL DISTRIBUTION

R-F TEST SET COMMAND MODULATOR NOTES, (1600)

A

SECRET

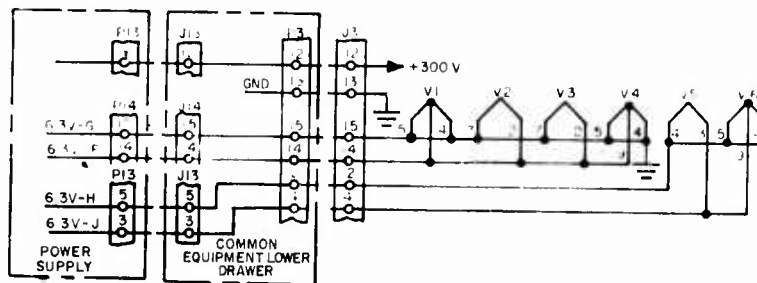
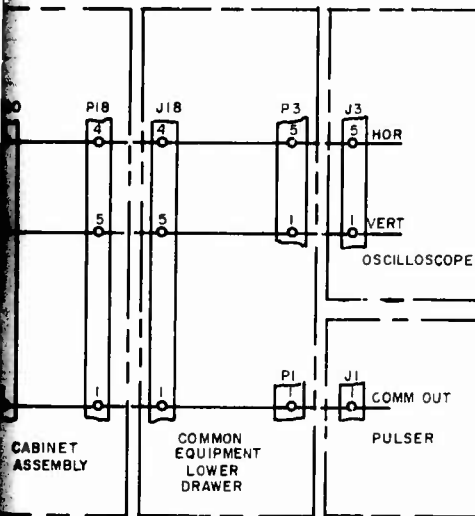


MODULATOR TOP VIEW

NOTES:

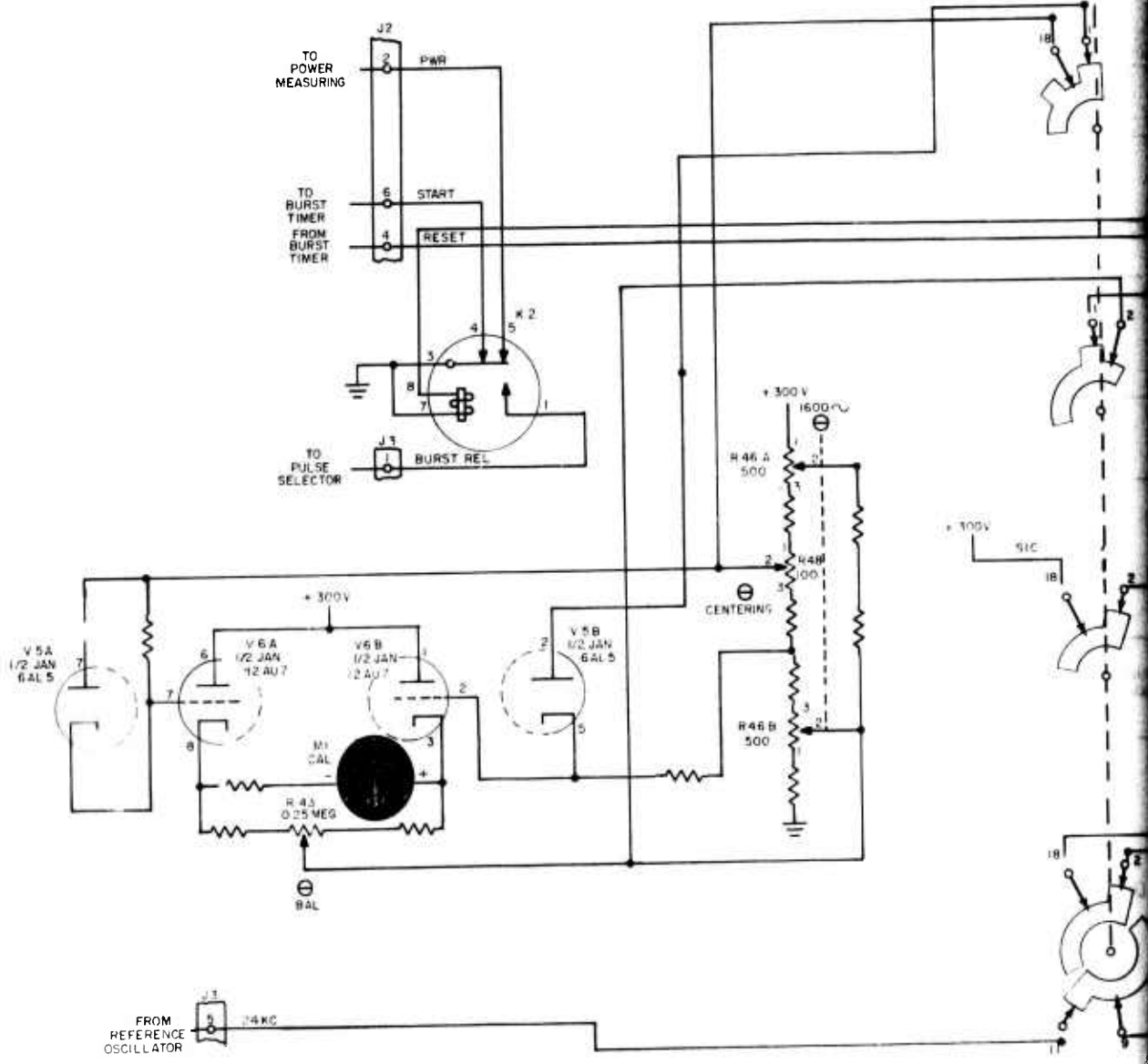
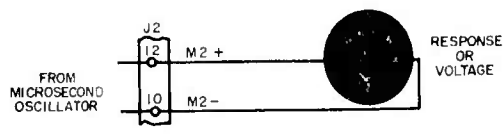
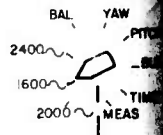
- 1 TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
- 2 TERMINALS 2, 3, 5, 6, 9, 10, 15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY.

S1 SWITCH CONNECTION					
POSITION	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
EAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-15, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
EURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-13	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-9, 12-13	11-17	5-9, 14-16-17		3-18, 9-10



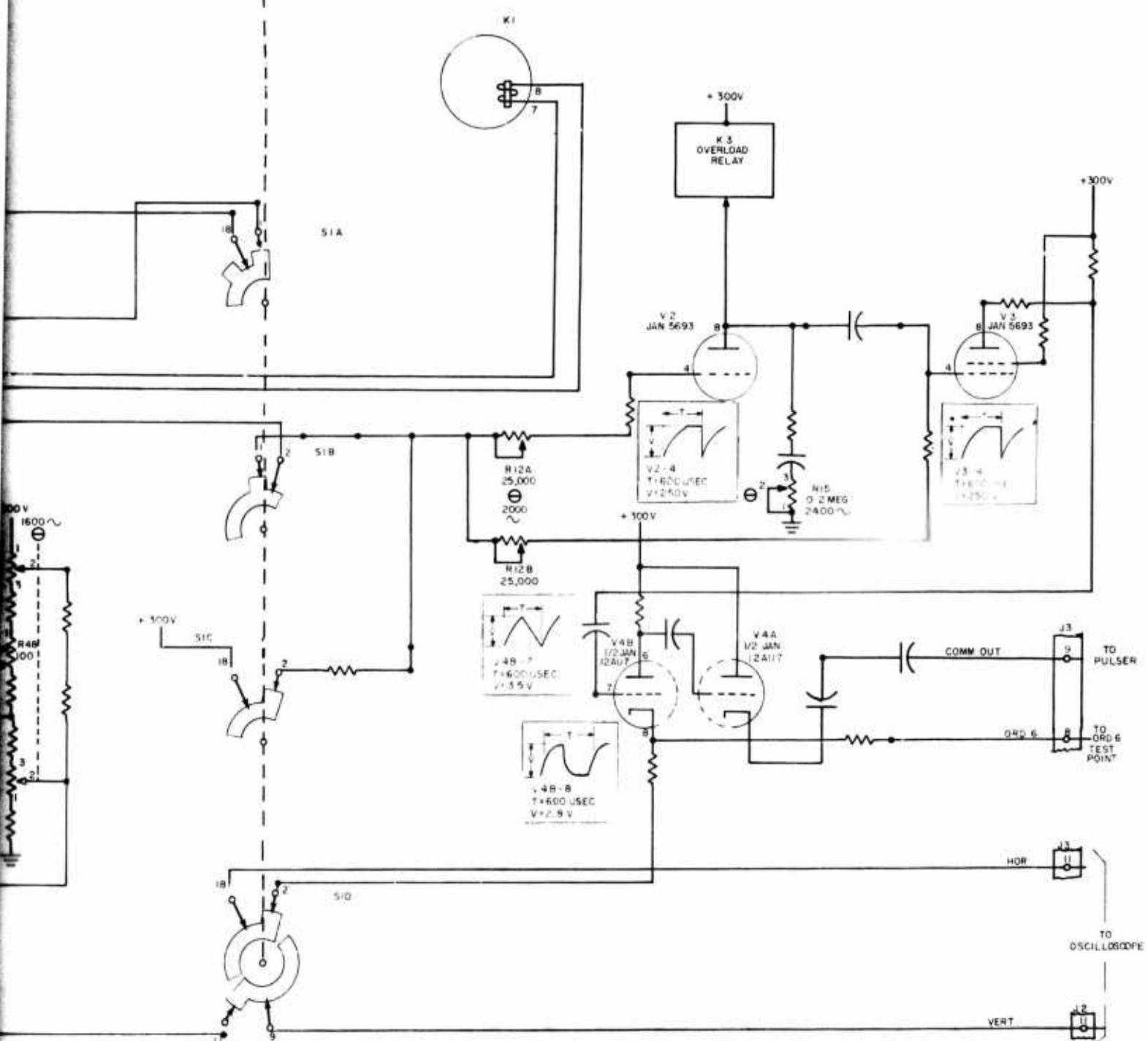
POWER DISTRIBUTION

UNCLASSIFIED



A

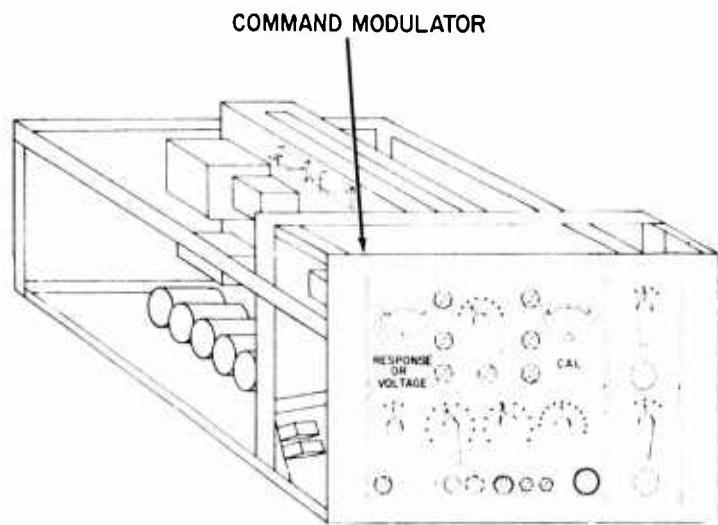
~~CONFIDENTIAL~~



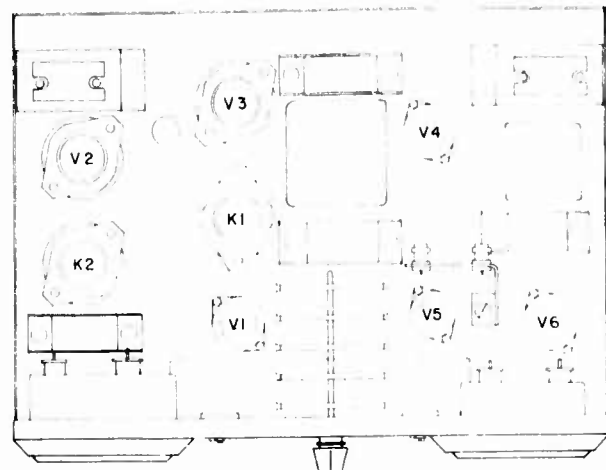
R-F TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (1600~)

23

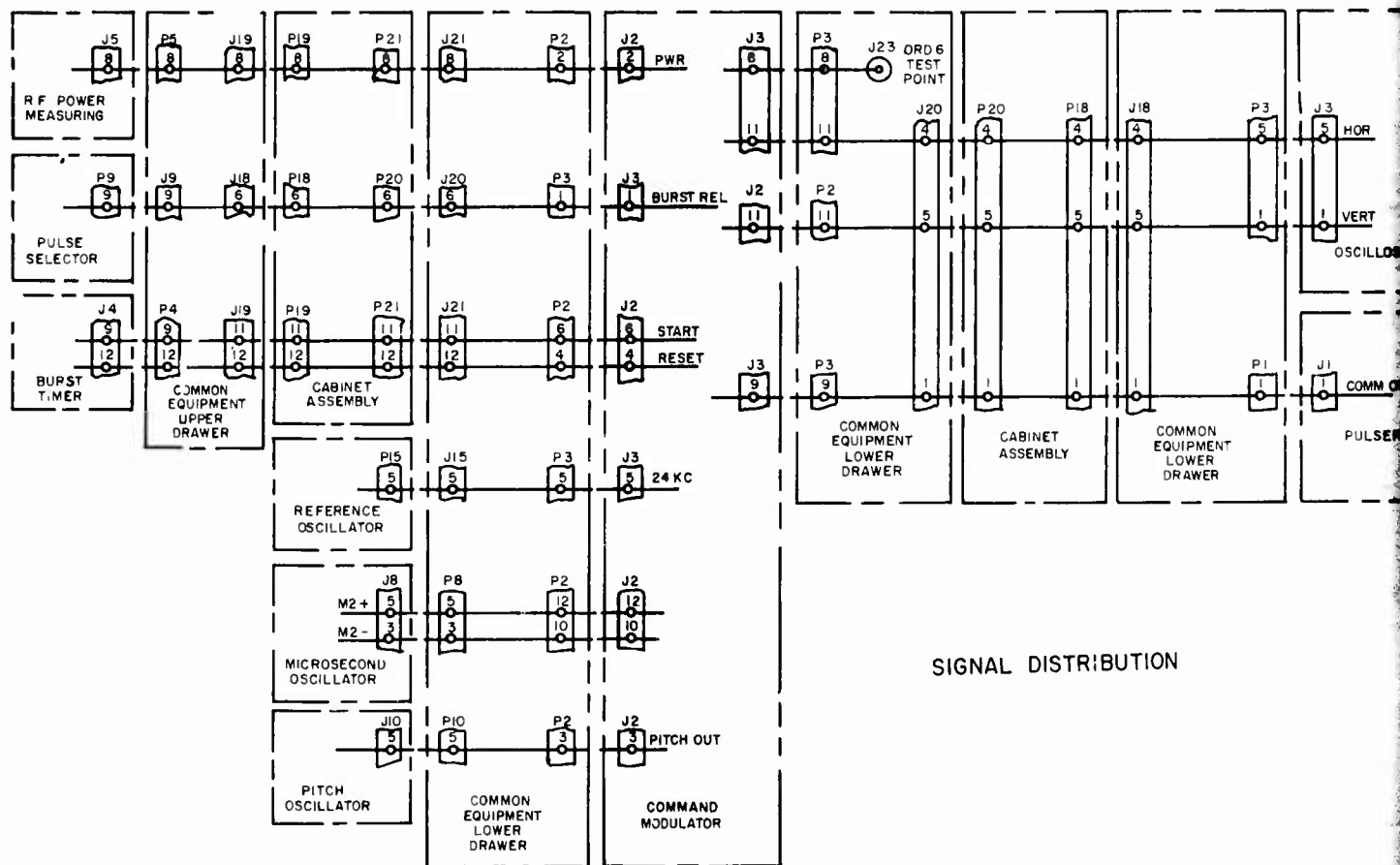
UNCLASSIFIED



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW



SIGNAL DISTRIBUTION

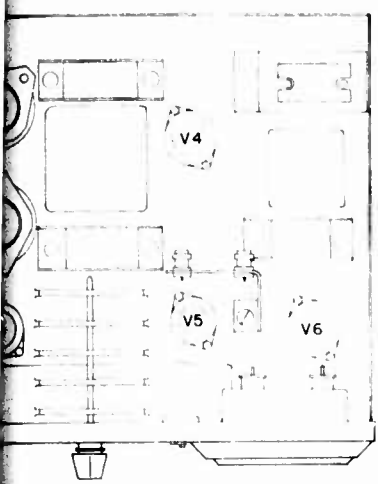
R-F TEST SET COMMAND MODULATOR ,NOTES (2400)

4

SIFIED

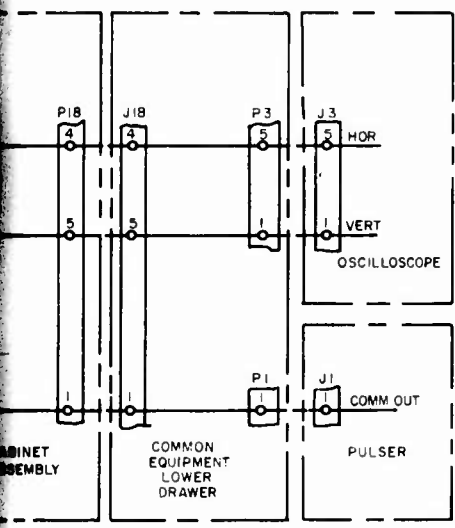
NOTES:

- 1 TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
- 2 TERMINALS 2,3,5,6,9,10,15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY

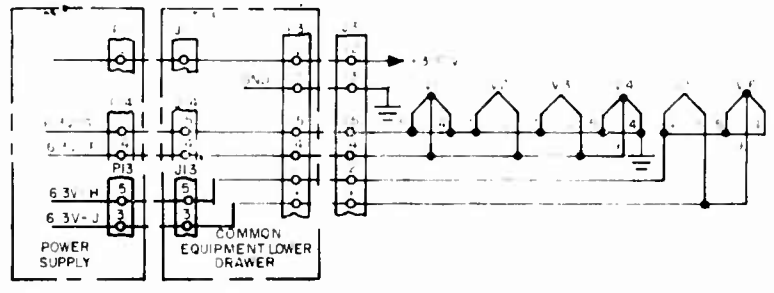


POSITION	S1 SWITCH CONNECTION				
	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-19, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
EURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-13	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-9, 12-13	11-17	5-9, 14-16-17		3-18, 9-10

MODULATOR TOP VIEW

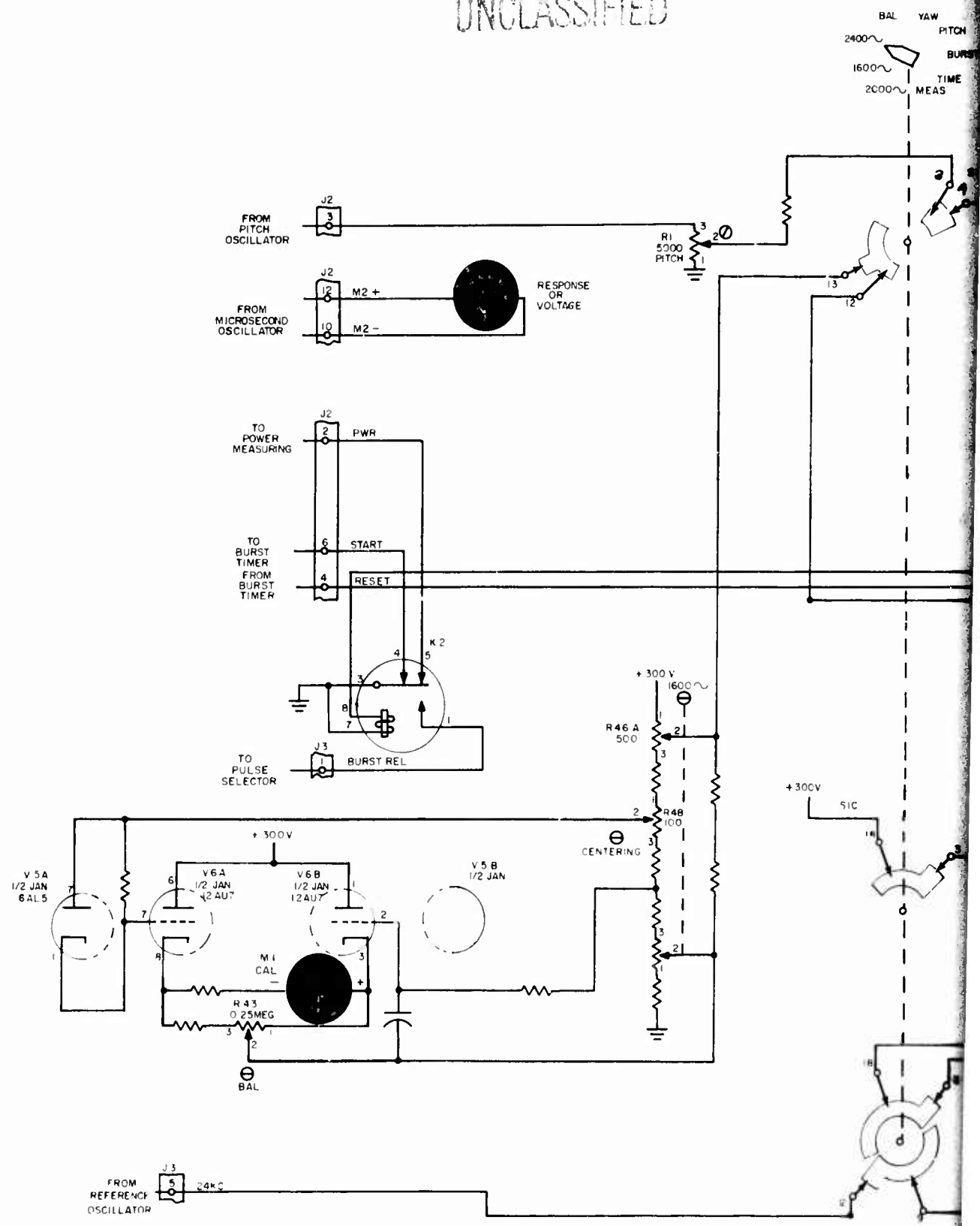


DISTRIBUTION

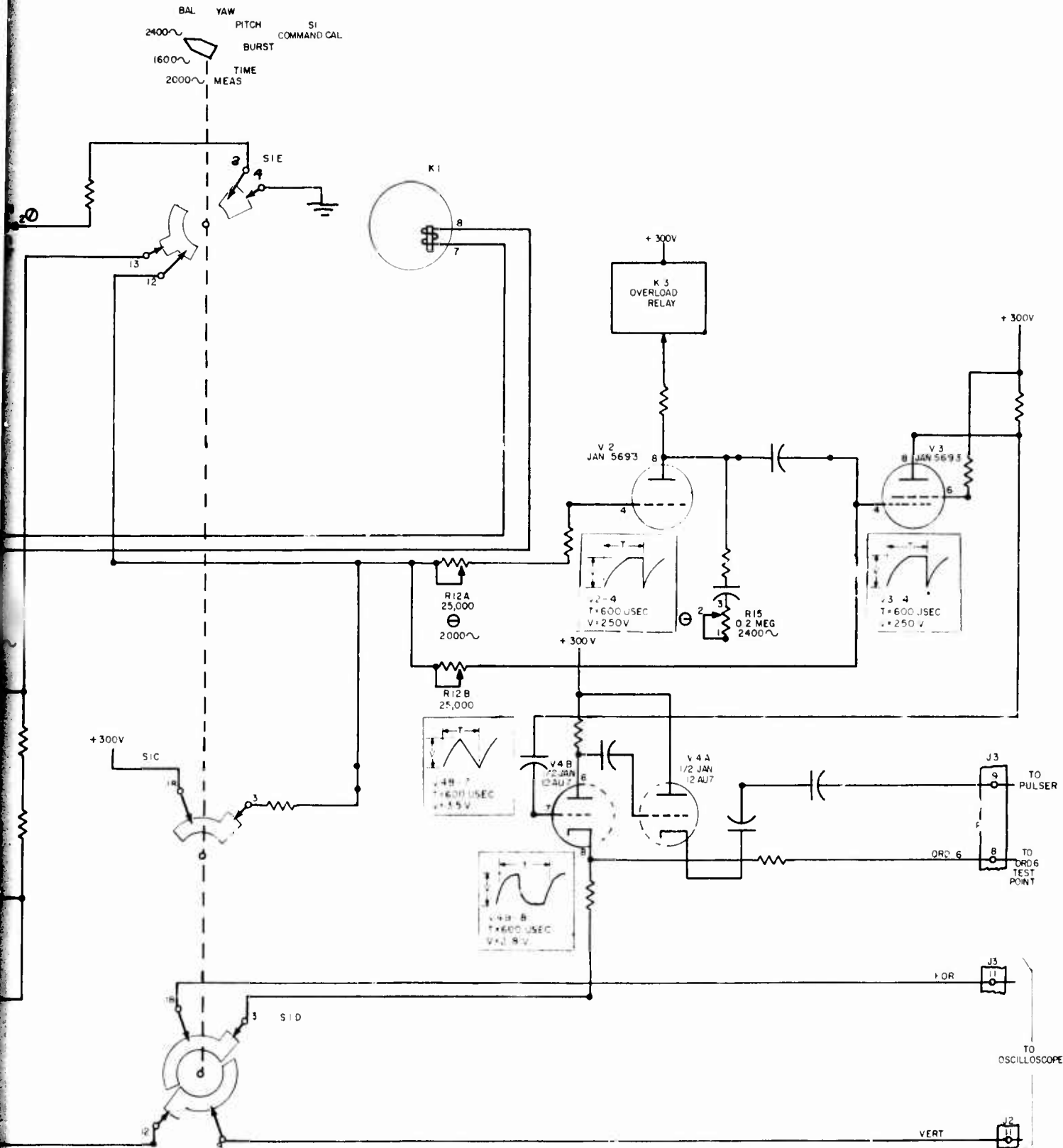


POWER DISTRIBUTION

UNCLASSIFIED

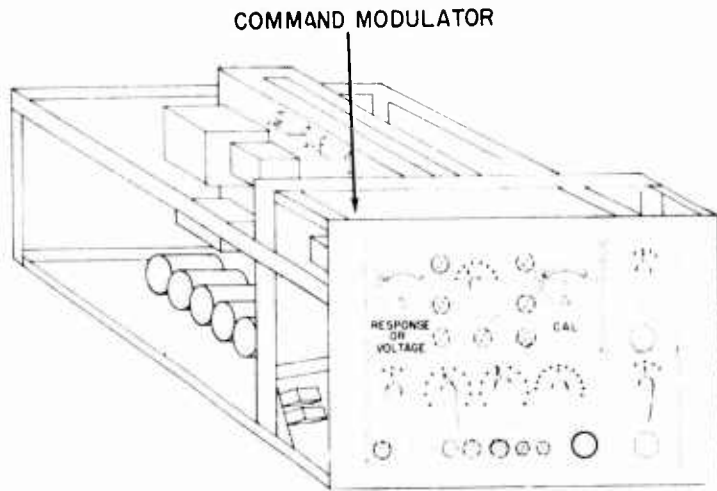


A

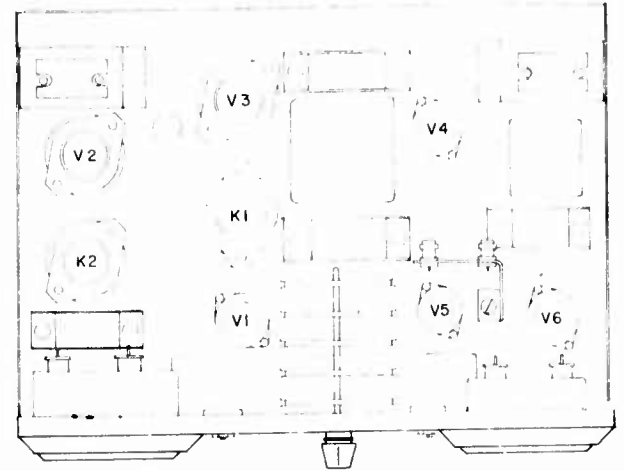


R-F TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (2400~)

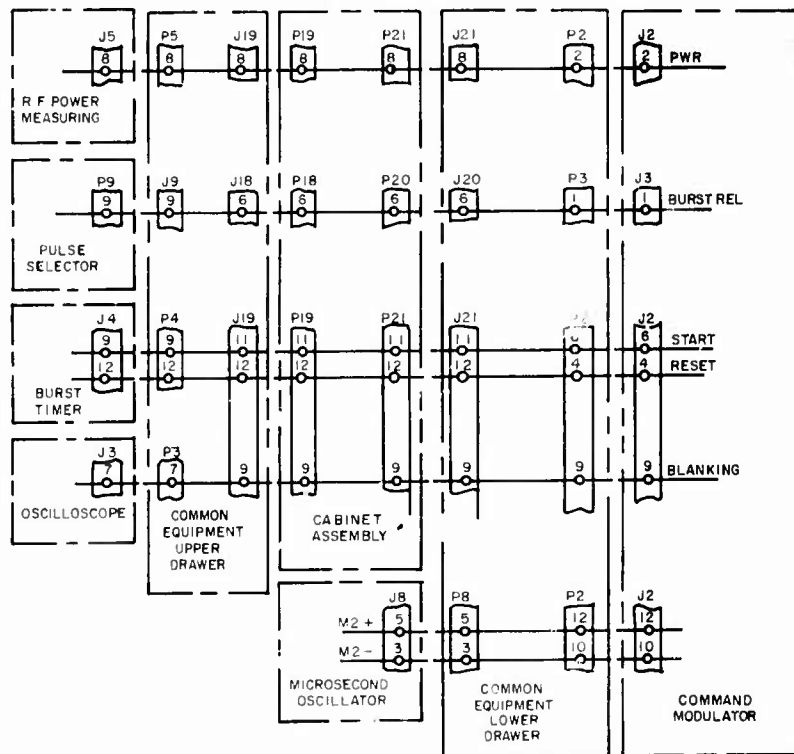
UNCLASSIFIED



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW



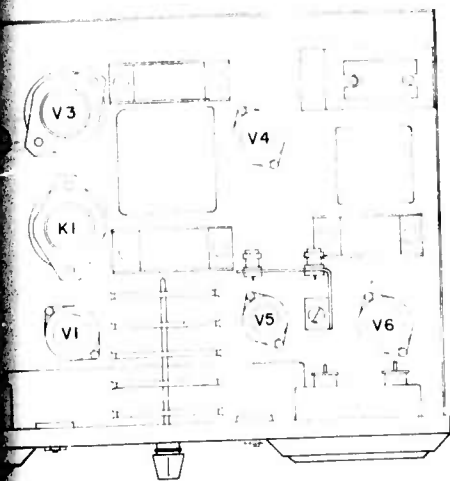
R-F TEST SET COMMAND MODULATOR, NOTES (BAL)

CONFIDENTIAL

CLASSIFIED

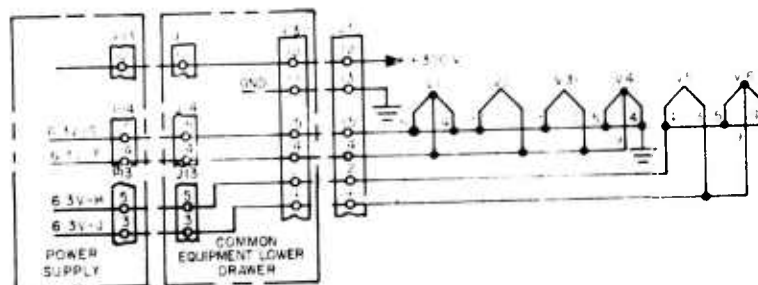
NOTES.

1. TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
2. TERMINALS 2,3,5,6,9,10,15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY.



COMMAND MODULATOR TOP VIEW

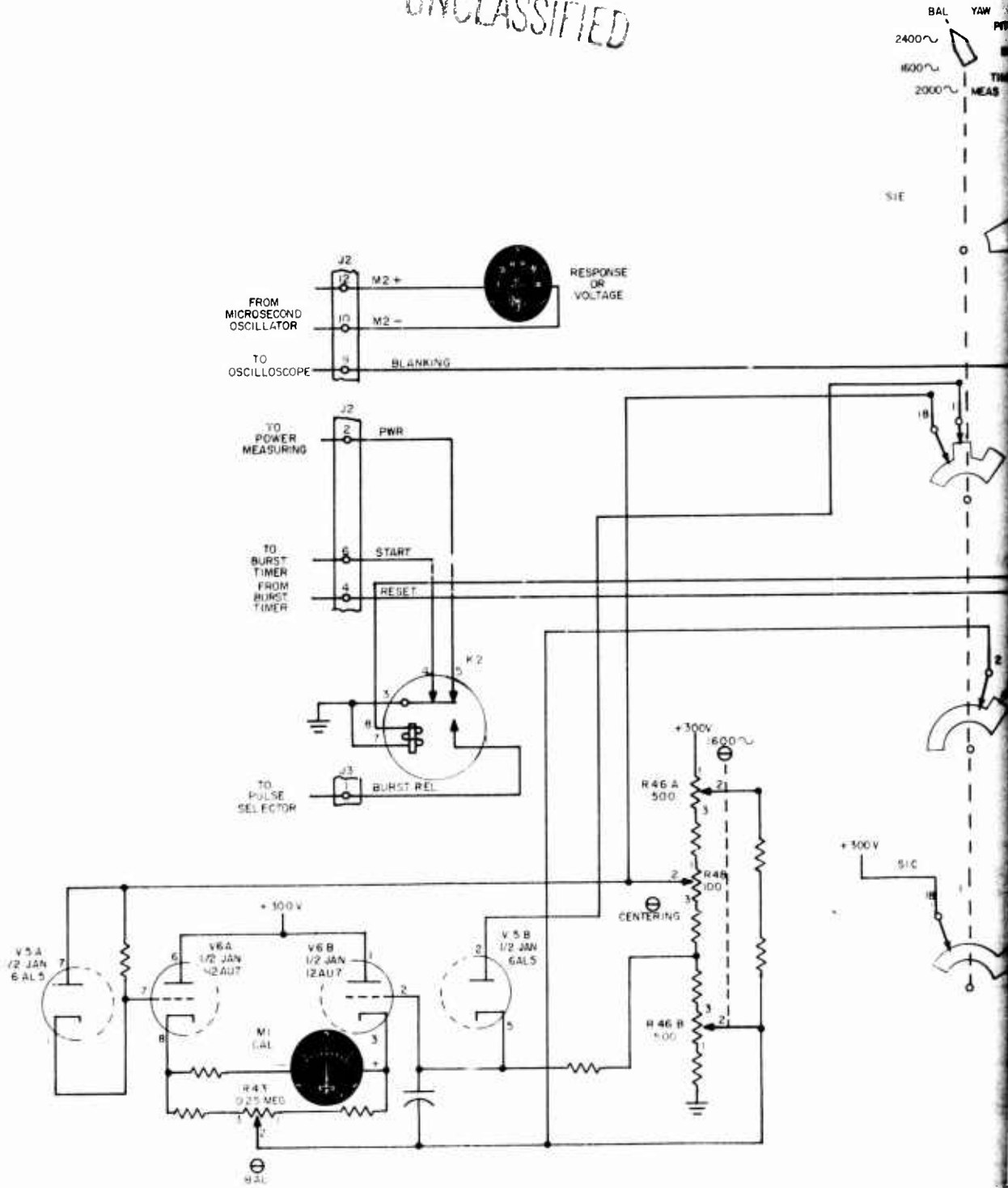
S1 SWITCH CONNECTION					
POSITION	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-18, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
BURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-12	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-8, 12-13	11-17	5-9, 14-16-17		1-3-18, 9-10



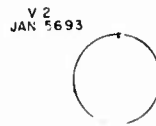
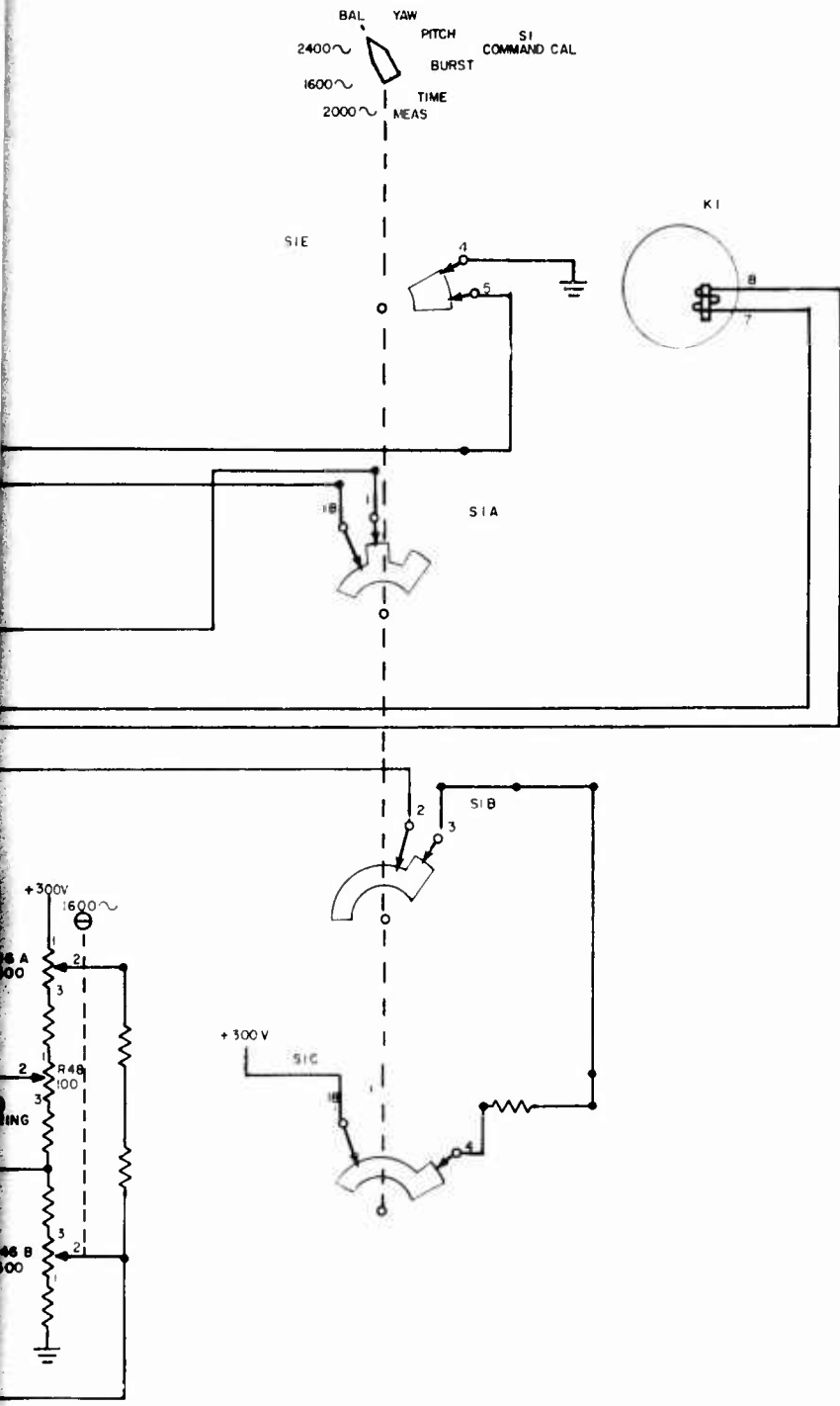
POWER DISTRIBUTION

CONFIDENTIAL

UNCLASSIFIED

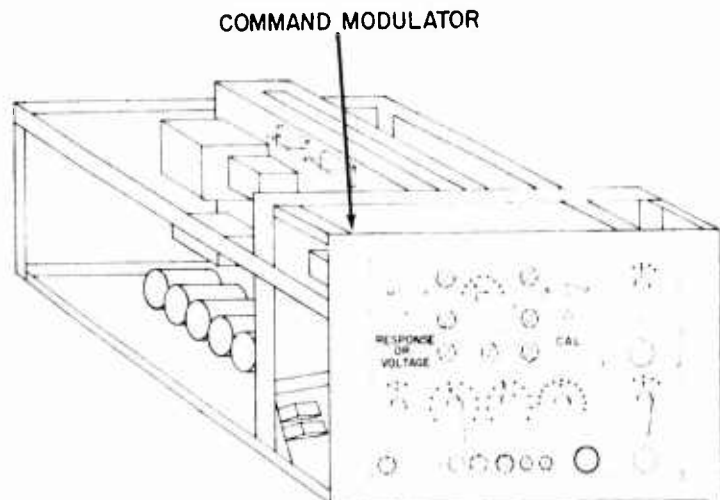


17

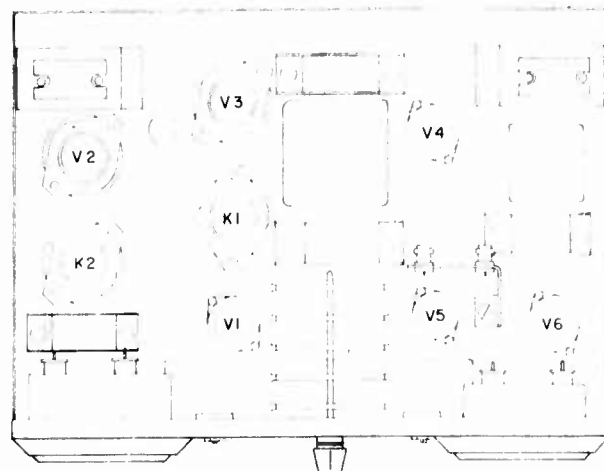


RF TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (BALANCE)

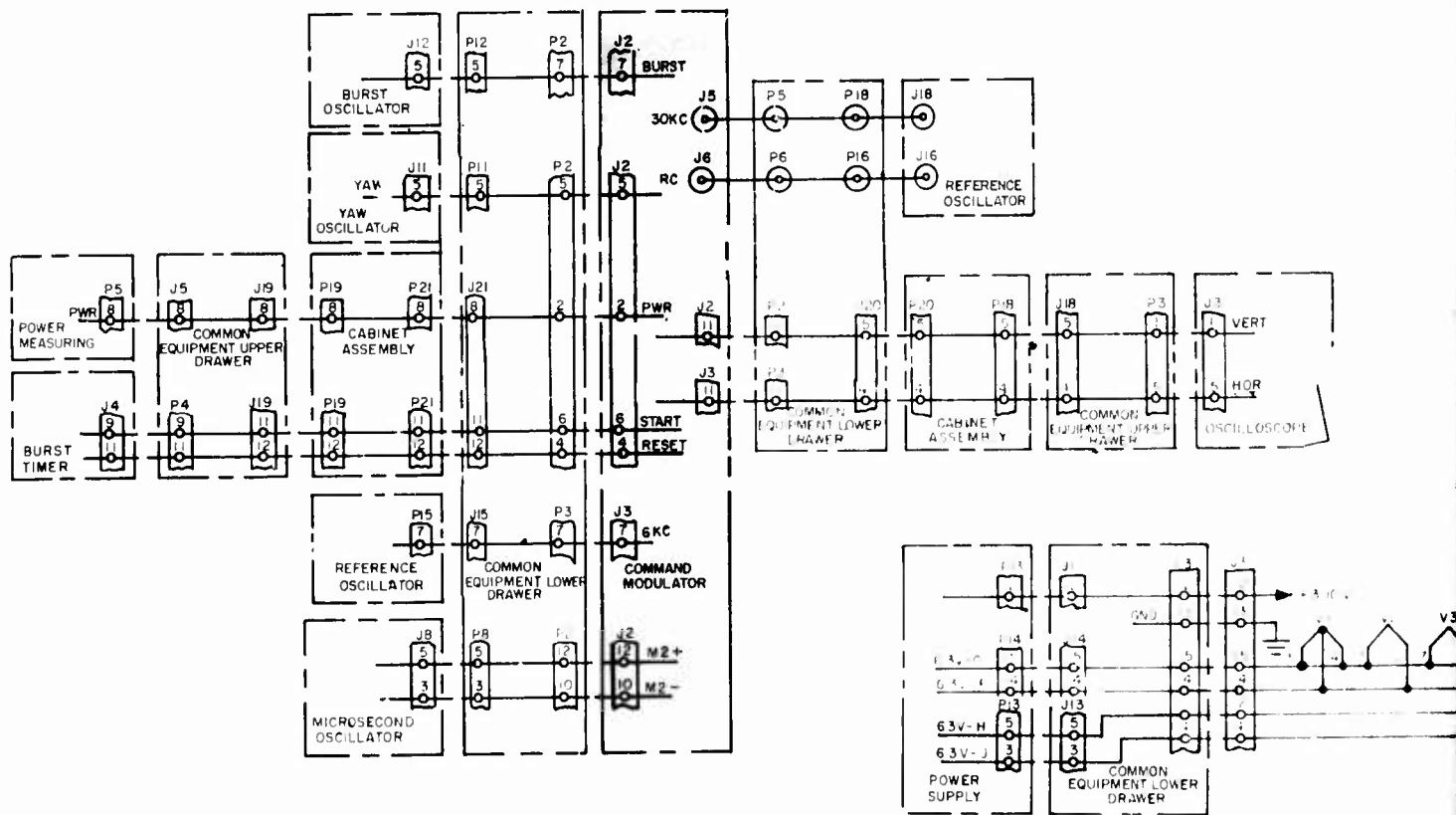
UNCLASSIFIED



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW



SIGNAL DISTRIBUTION

POWER DISTRIBUTION

R-F TEST SET COMMAND MODULATOR, NOTES (YAW)

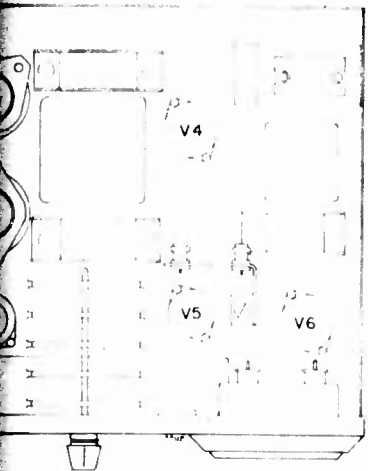
A

CLASSIFIED

NOTES:

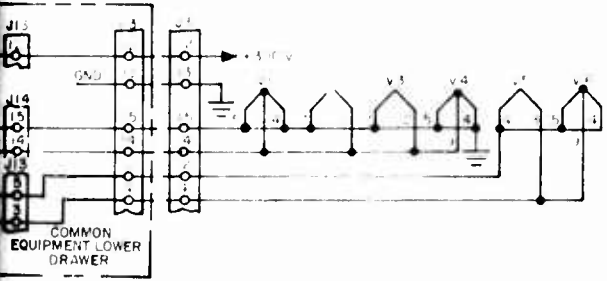
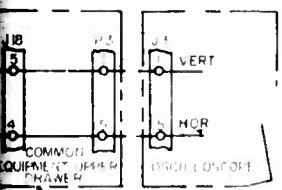
1. TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
2. TERMINALS 2,3,5,6,9,10,15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY.
3. WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS:

SWITCH	POSITION
YAW COMMAND	OG



MODULATOR TOP VIEW

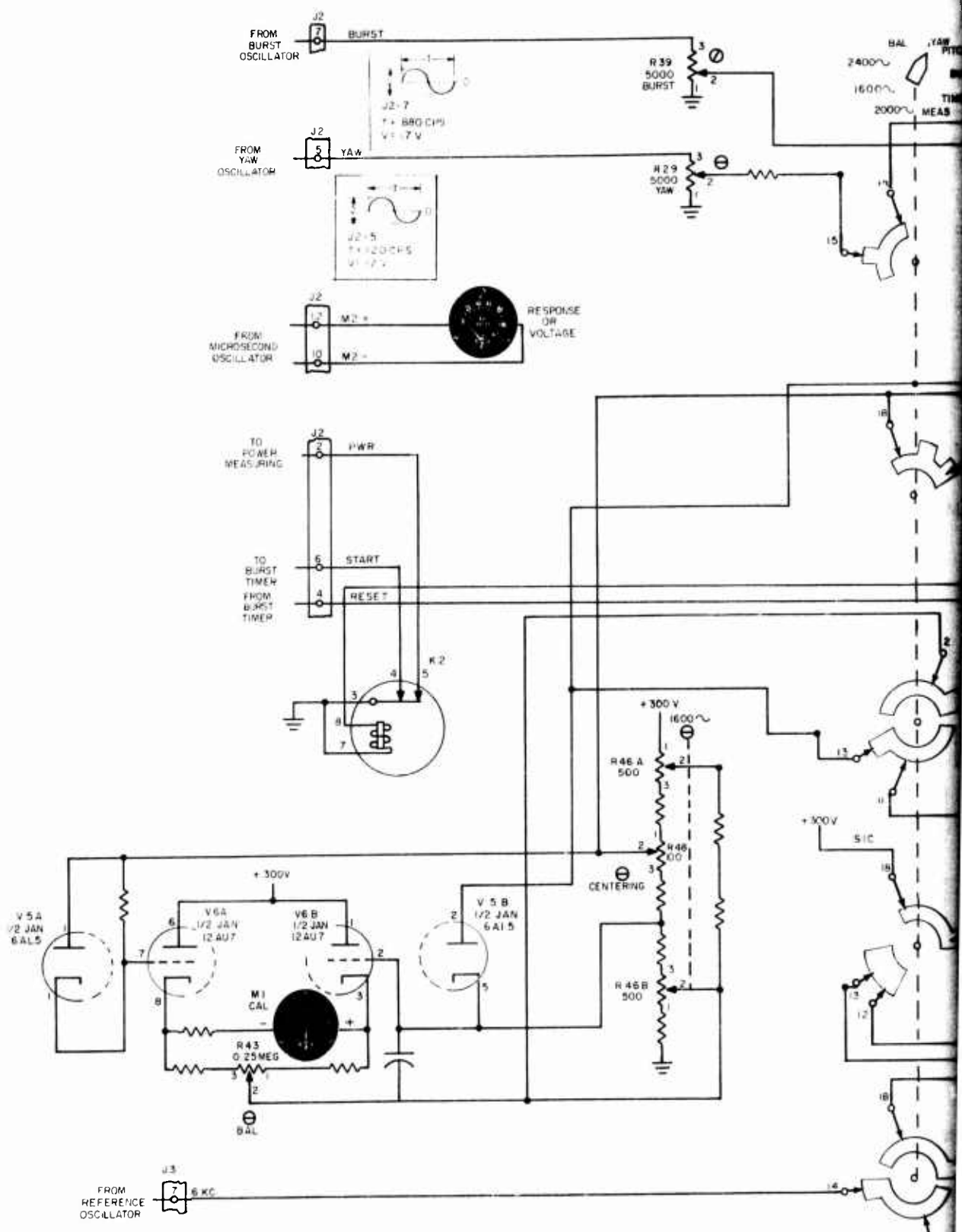
S1 SWITCH CONNECTION					
POSITION	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-19, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
BURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-12	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-8, 12-13	11-17	5-9, 14-16-17		1-3-18, 9-10



POWER DISTRIBUTION

~~CONFIDENTIAL~~

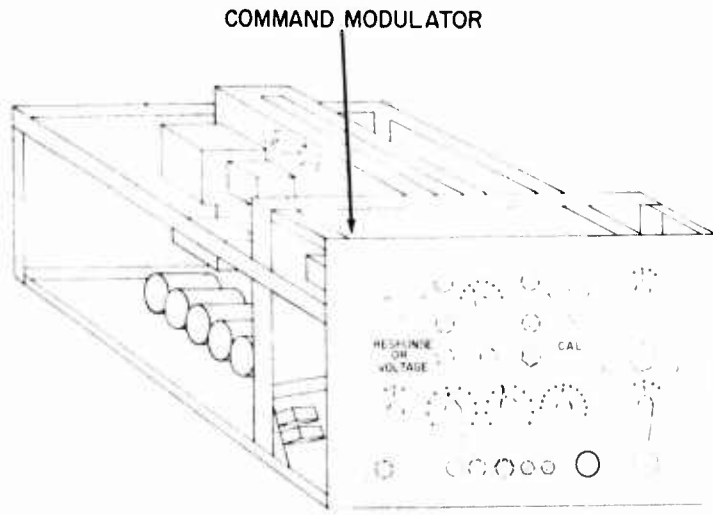
UNC



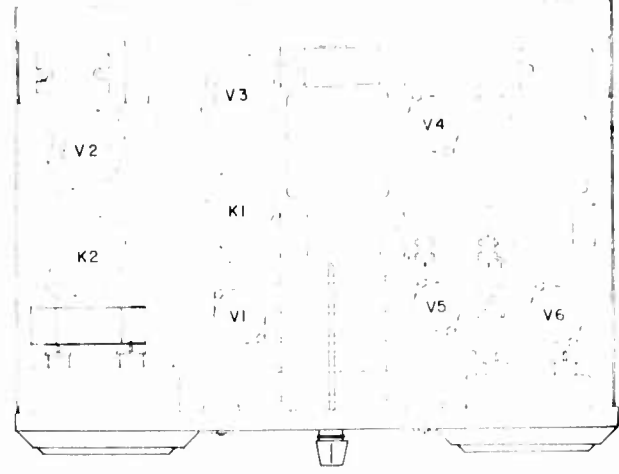
A

~~CONFIDENTIAL~~

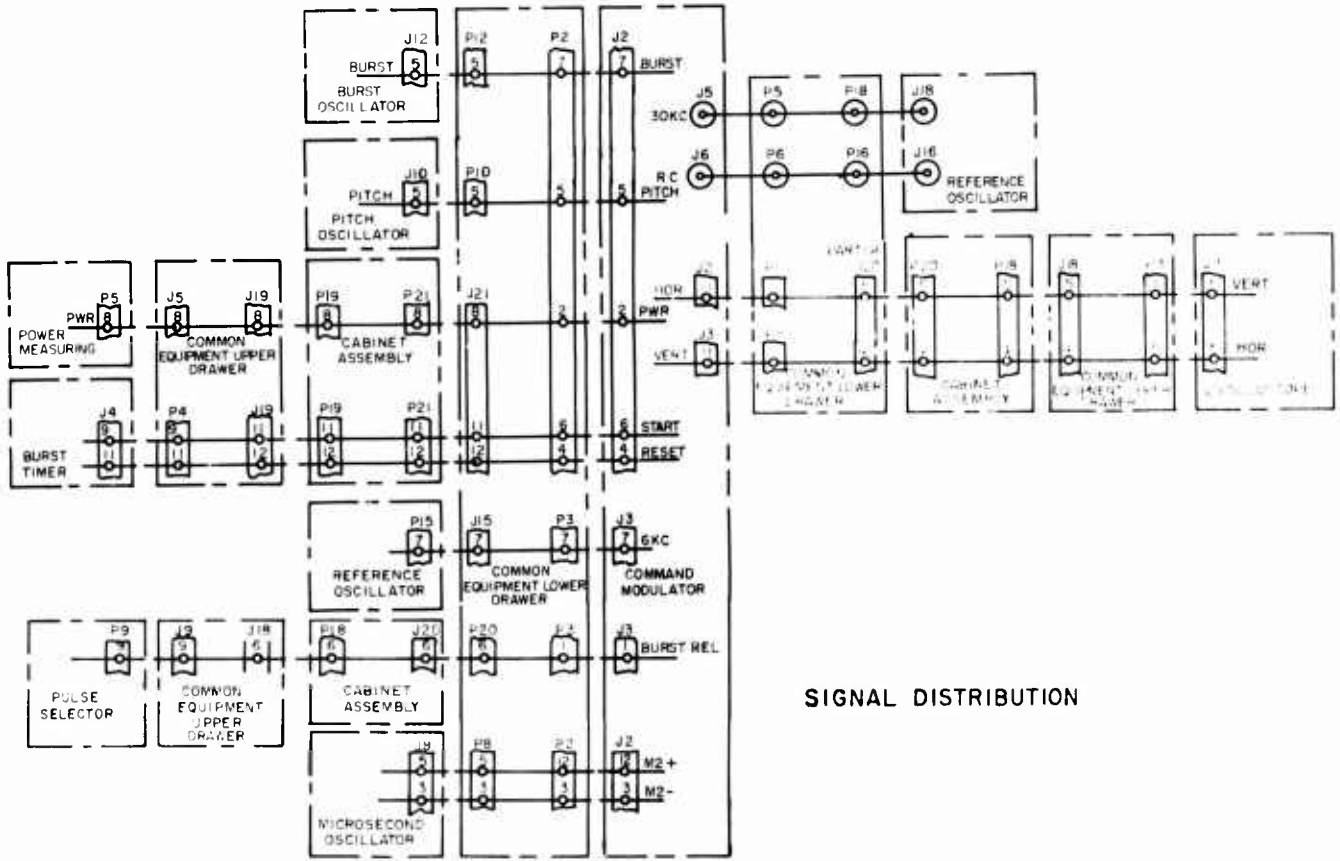
UNCLASSIFIED



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW

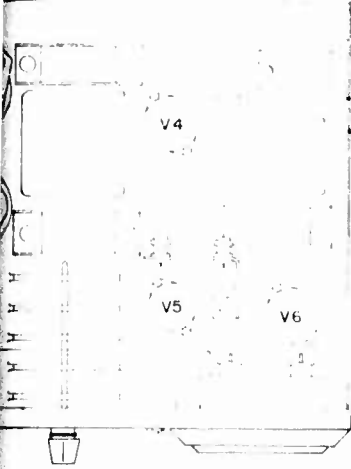


SIGNAL DISTRIBUTION

R-F TEST SET COMMAND MODULATOR, NOTES (PITCH)

A

CLASSIFIED



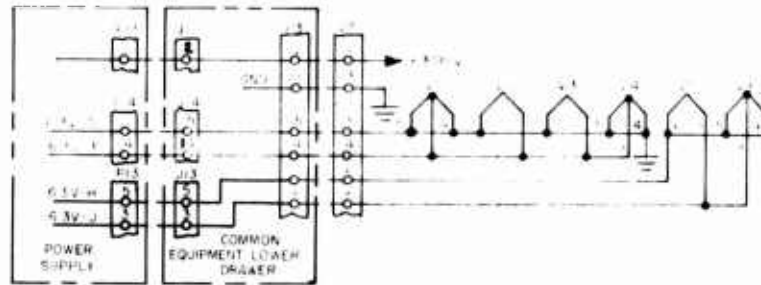
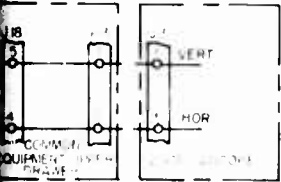
NOTES

- 1 TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
- 2 TERMINALS 2,3,5,6,9,10,15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY
- 3 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

<u>SWITCH</u>	<u>POSITION</u>
PITCH COMMAND	OG

S1 SWITCH CONNECTION					
POSITION	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-19, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
BURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-12	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-9, 12-13	11-17	5-9, 14-16-17		1-3-18, 9-10

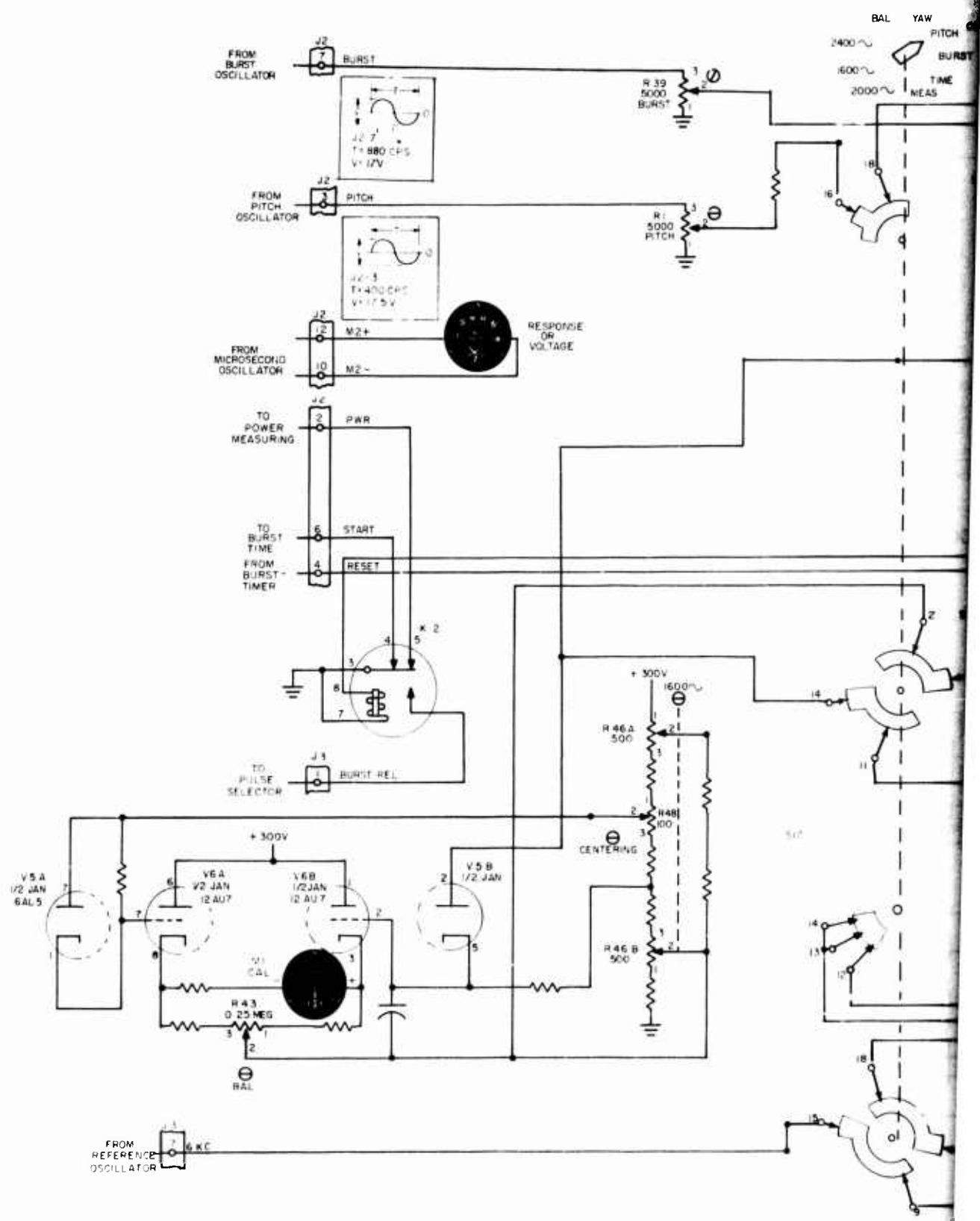
MODULATOR TOP VIEW



POWER DISTRIBUTION

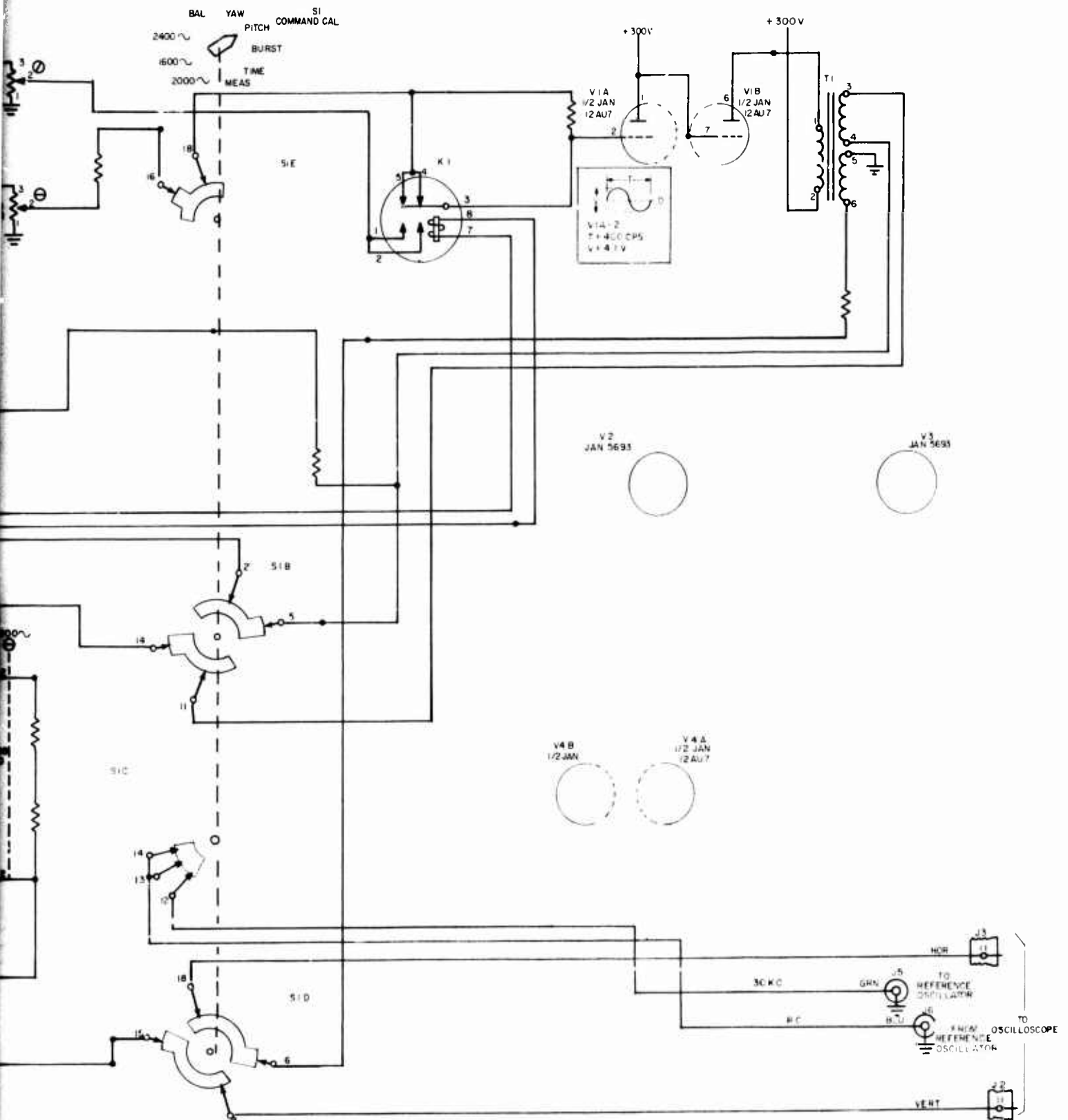
~~CONFIDENTIAL~~

~~UNCLASSIFIED~~



A

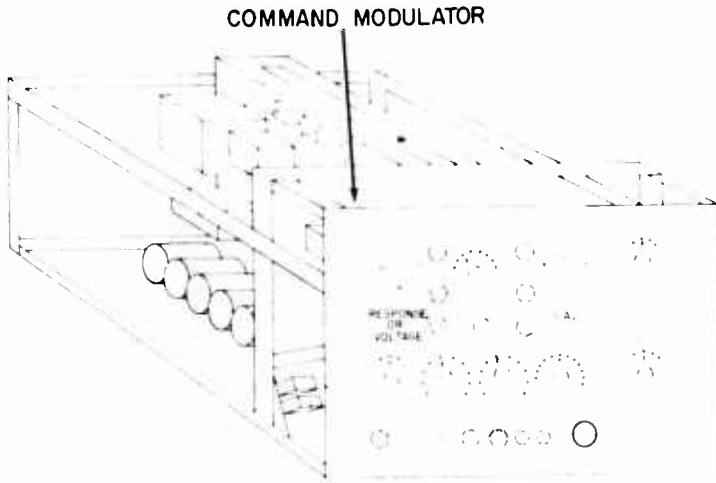
~~CONFIDENTIAL~~



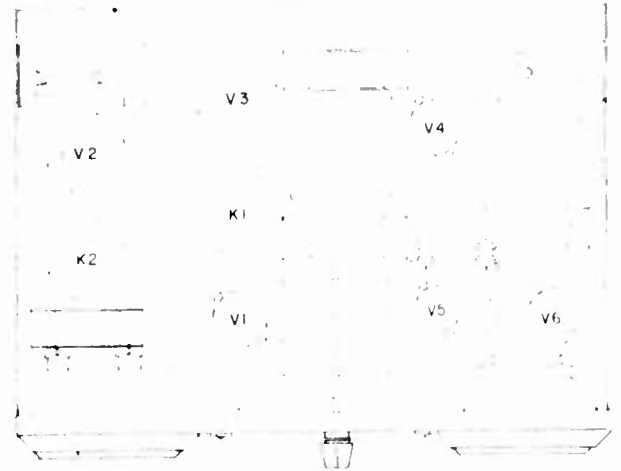
R.F. TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (PITCH)

~~CONFIDENTIAL~~

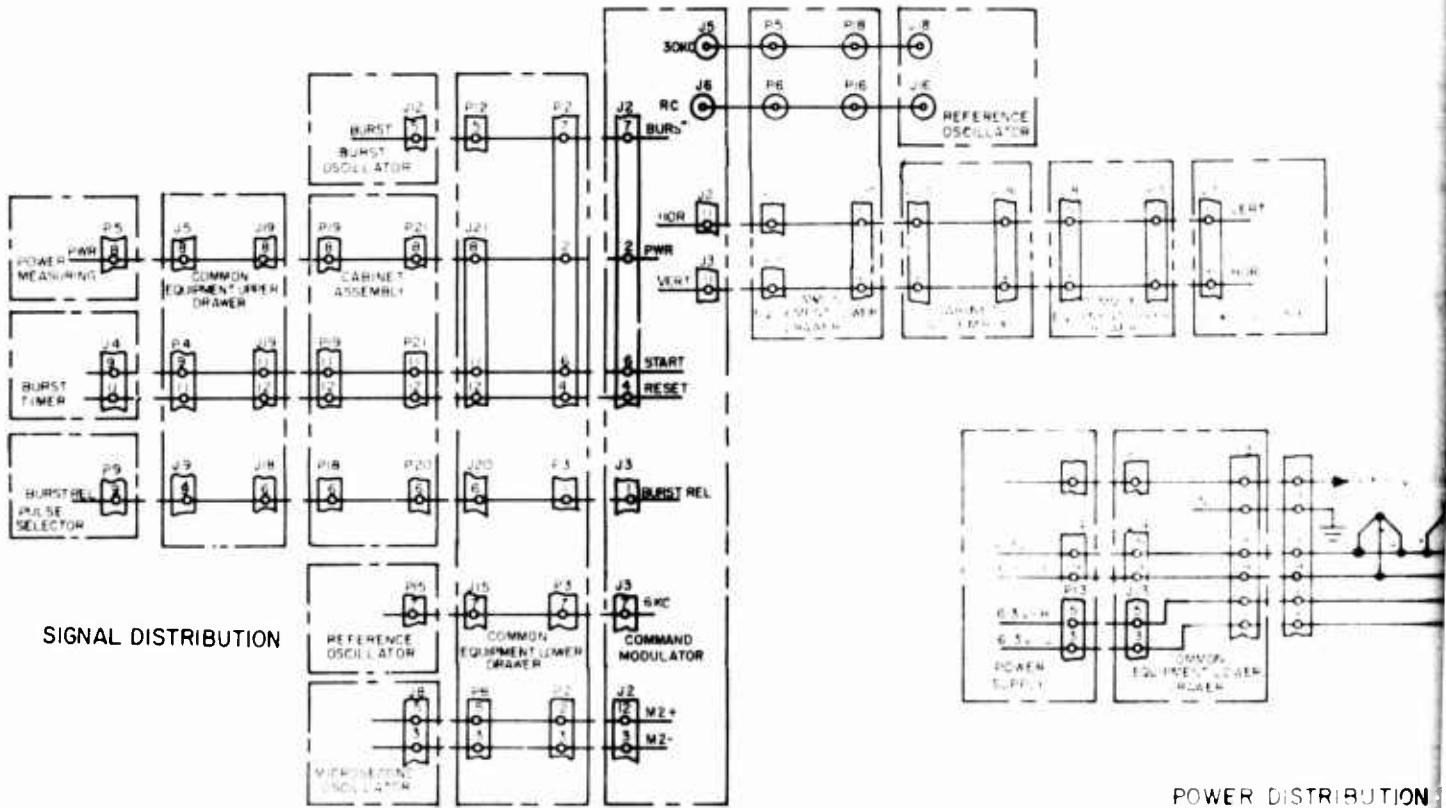
UNCLASSIFIED



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW



R-F TEST SET COMMAND MODULATOR, NOTES (BURST)

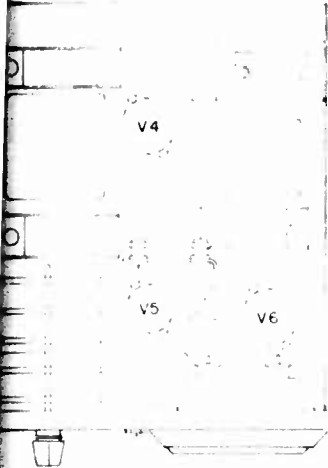
~~CONFIDENTIAL~~

CONFIDENTIAL

CLASSIFIED

NOTES:

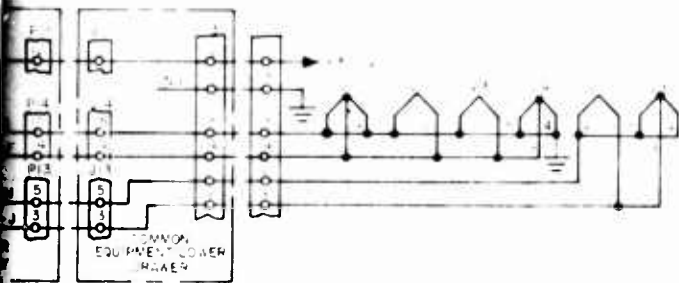
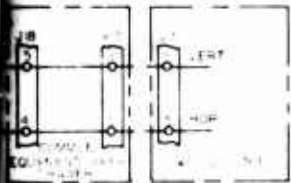
- 1 TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
- 2 TERMINALS 2,3,5,6,9,10,15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY.



MODULATOR TOP VIEW

S1 SWITCH CONNECTION

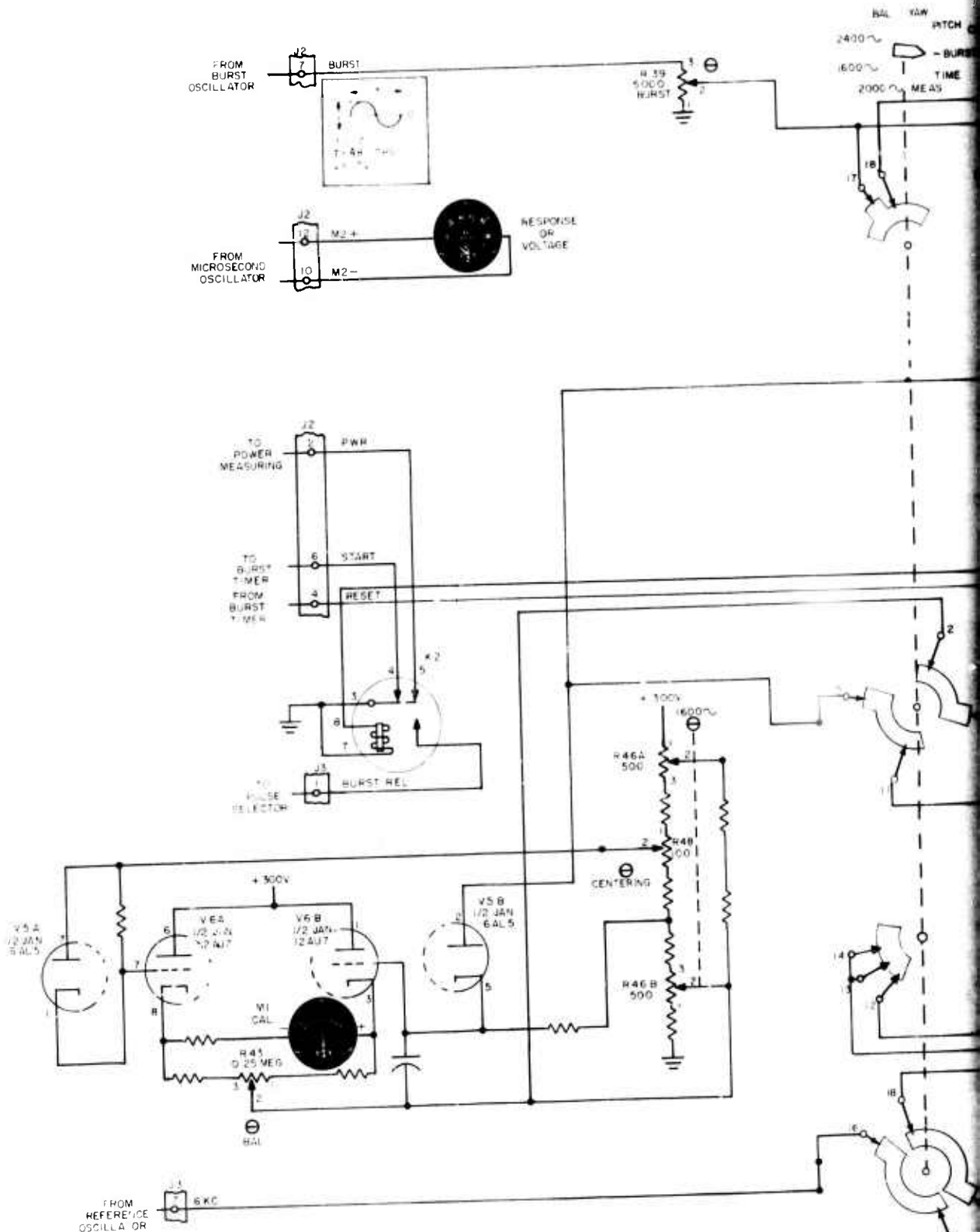
POSITION	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-18, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
BURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-12	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-9, 12-13	11-17	5-9, 14-16-17		1-3-18, 9-10



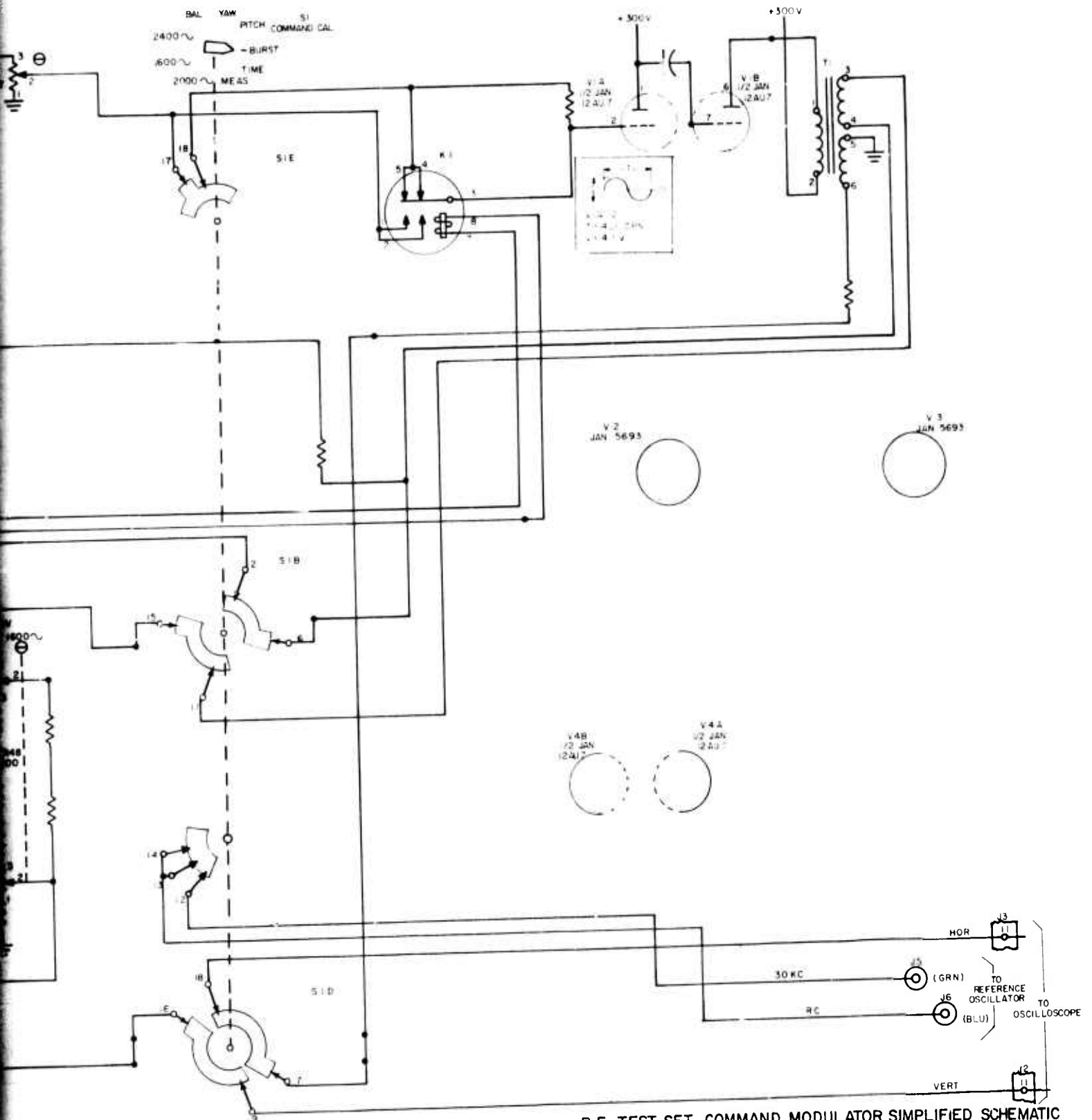
POWER DISTRIBUTION

CONFIDENTIAL

UNCLASSIFIED



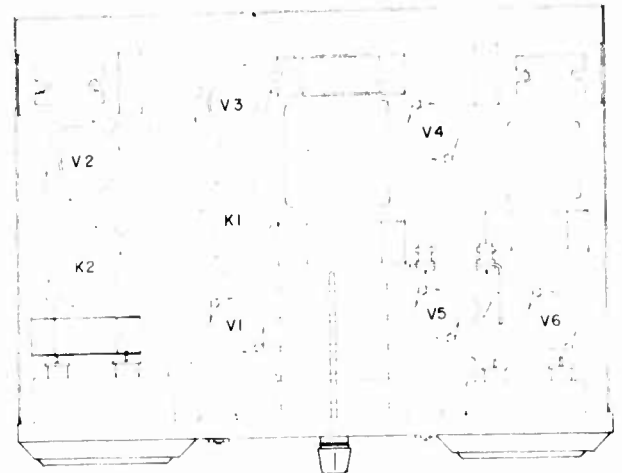
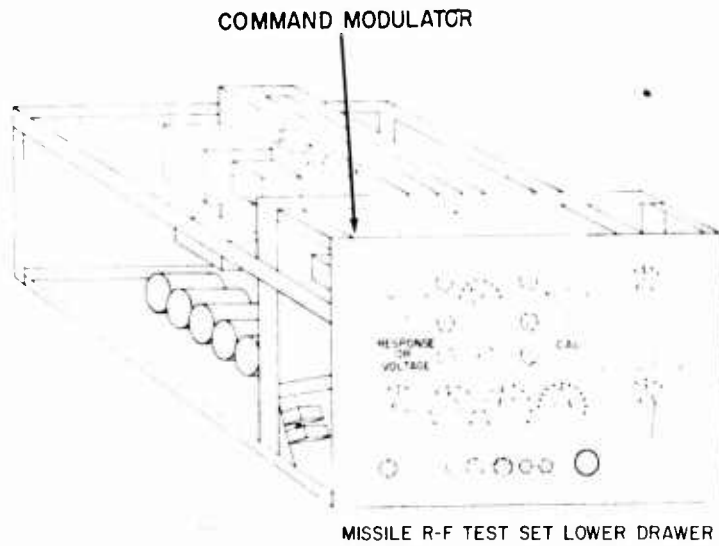
F



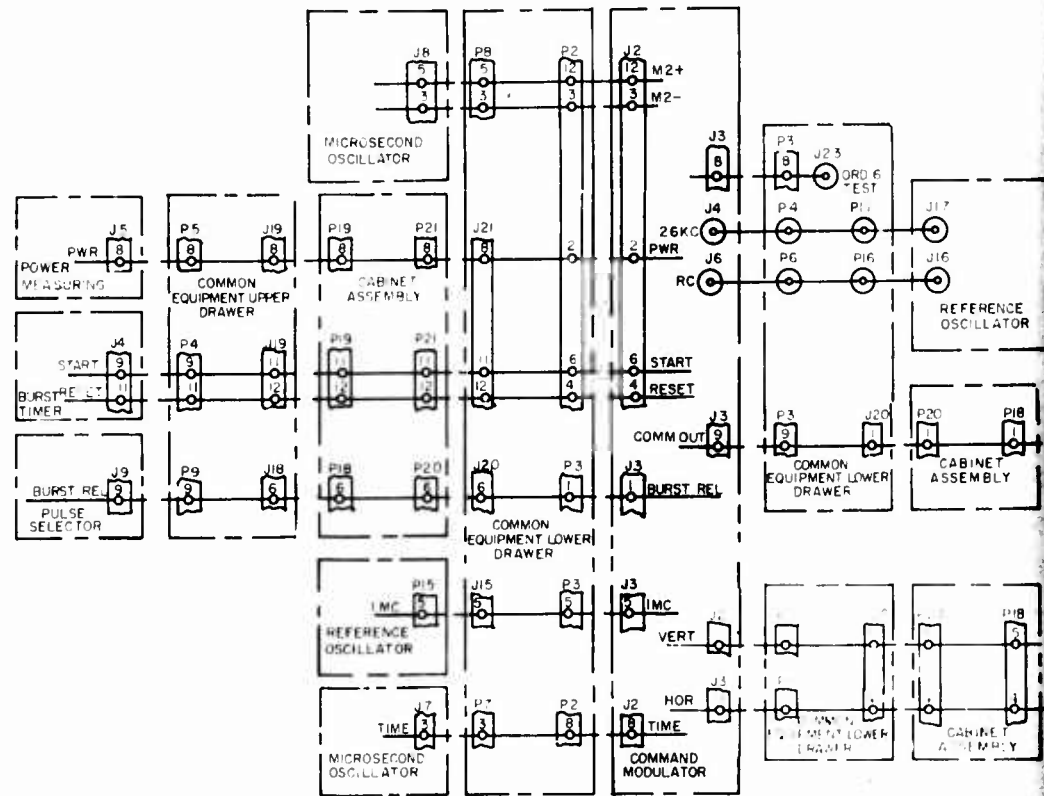
R.F. TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (BURST)

B

UNCLASSIFIED



COMMAND MODULATOR TOP VIEW



SIGNAL DISTRIBUTION

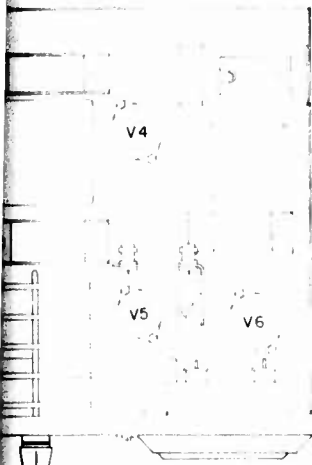
R-F TEST SET COMMAND MODULATOR, NOTES (TIME)

A

UNCLASSIFIED

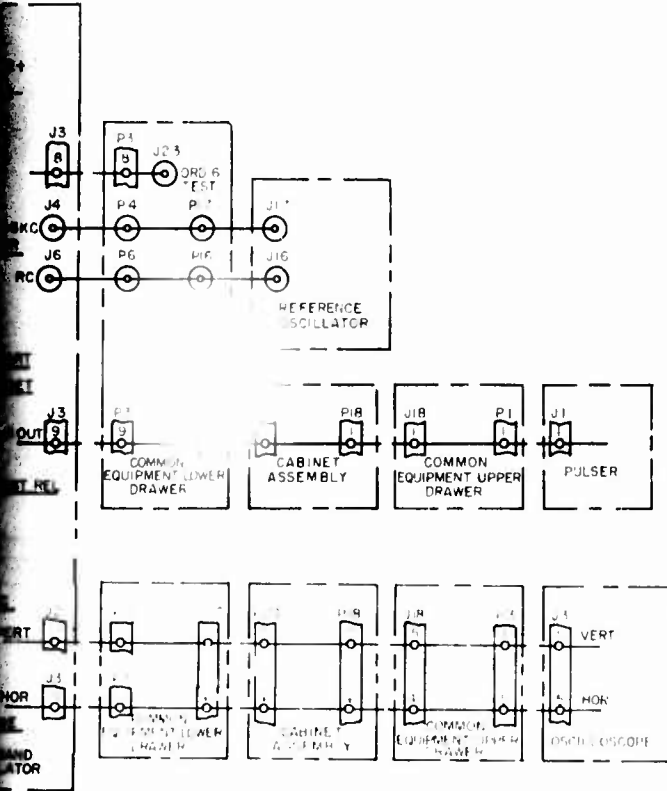
NOTES:

1. TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
2. TERMINALS 2, 3, 5, 6, 9, 10, 15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY.

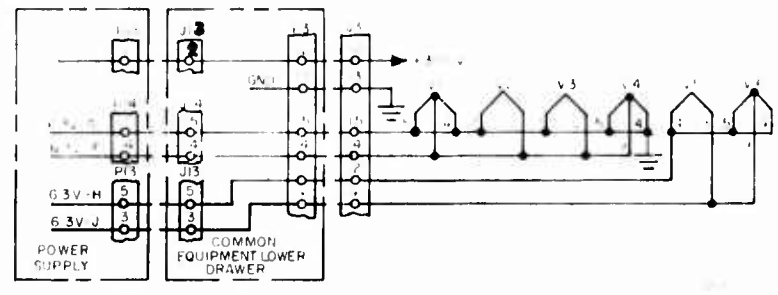


LATOR TOP VIEW

POSITION	S1 SWITCH CONNECTION				
	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-13	2-4, 11-13	5-19, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
BURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-12	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-9, 12-13	11-17	5-9, 14-16-17		1-3-18, 9-10

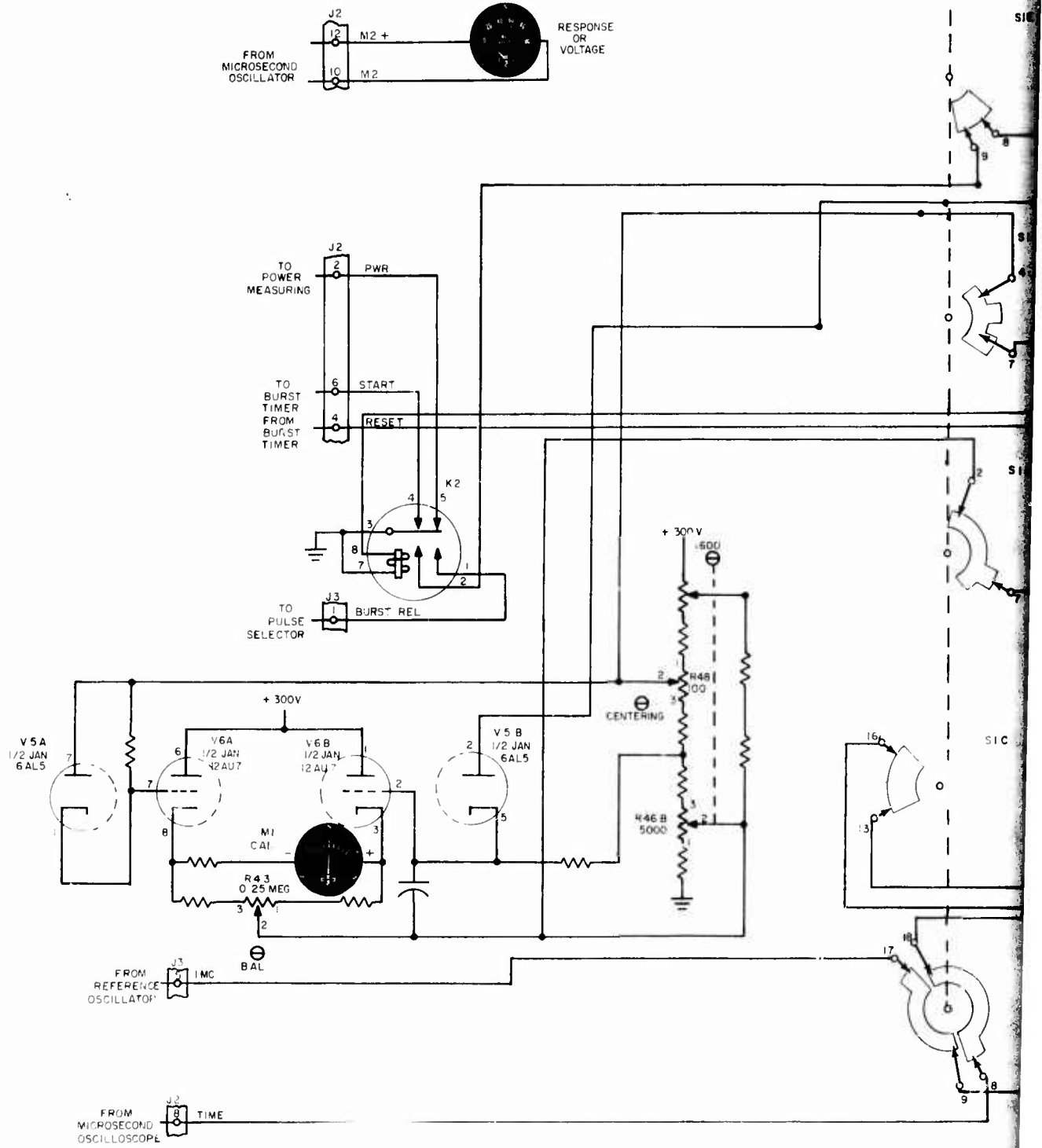
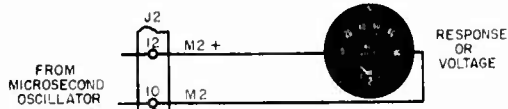
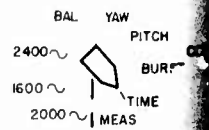


DISTRIBUTION

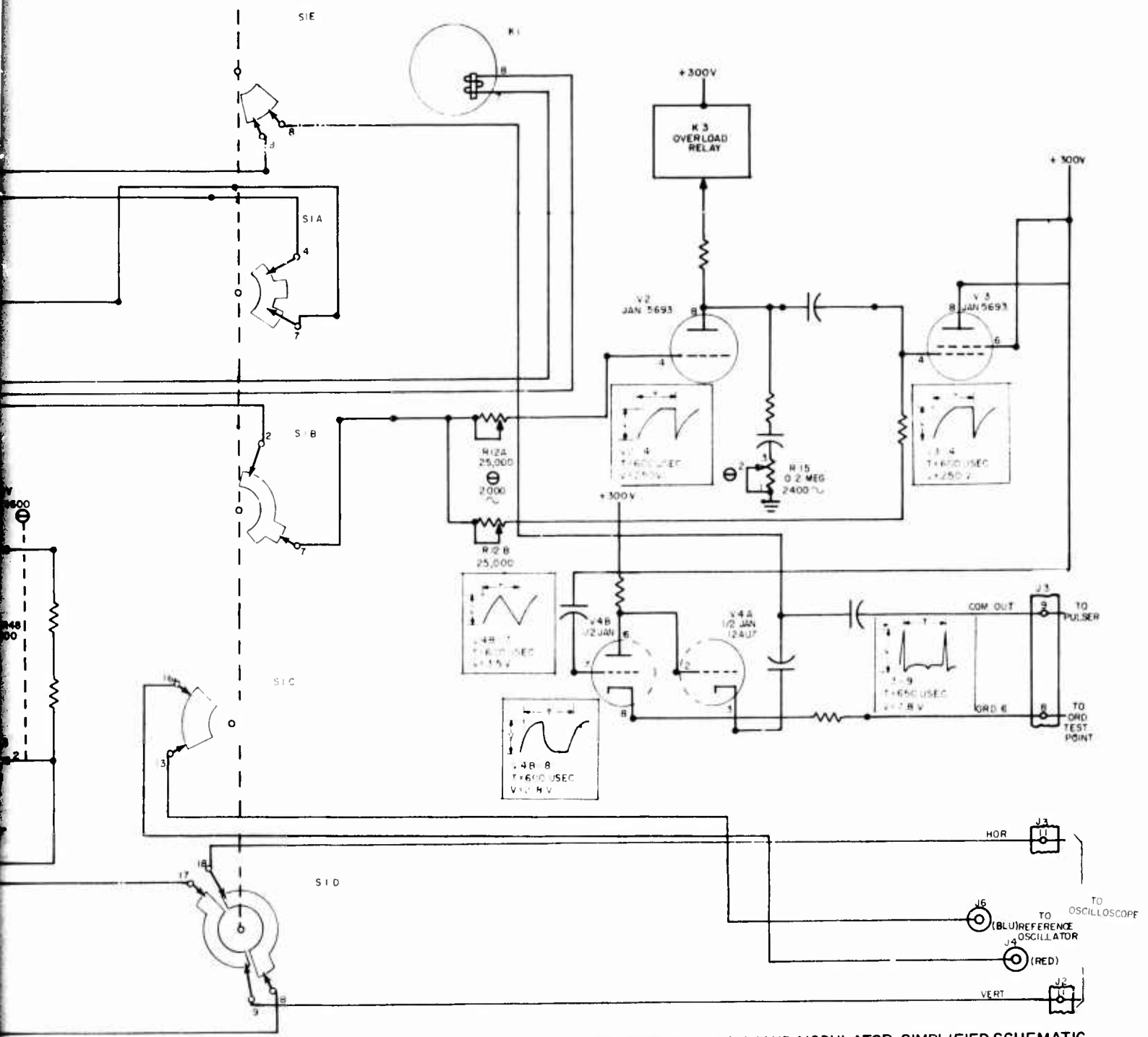
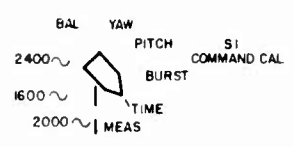


POWER DISTRIBUTION

UNCLASSIFIED

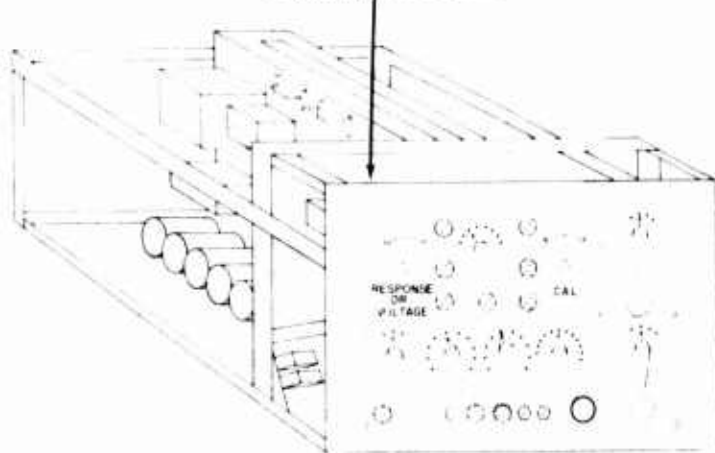


A

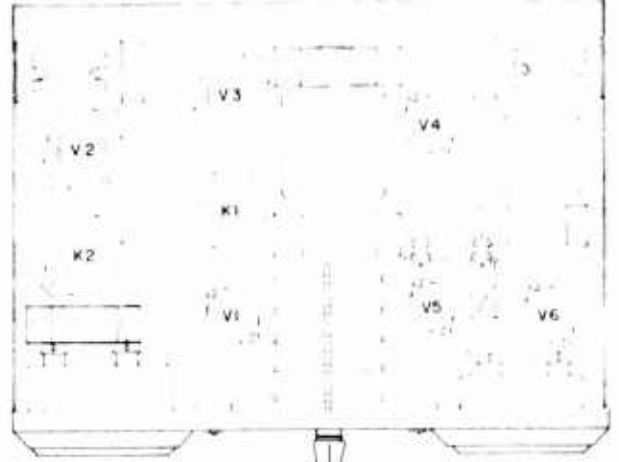


R.F. TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (TIME)

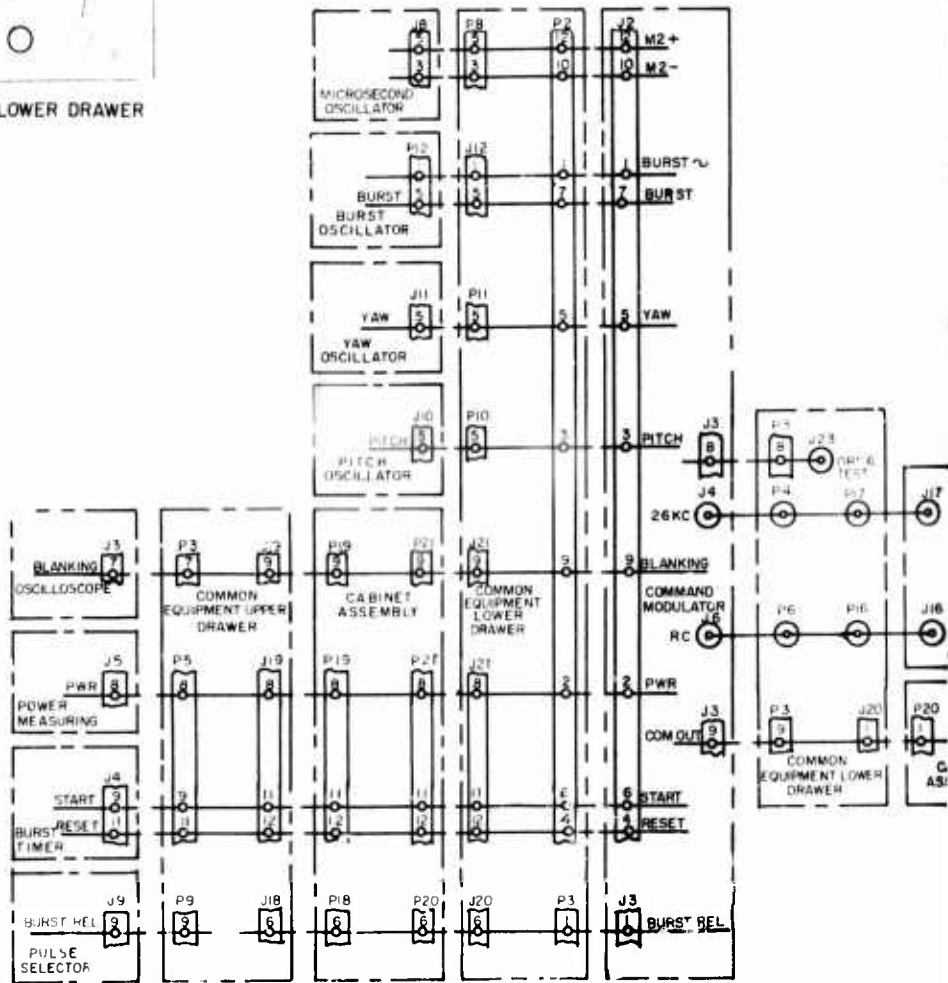
COMMAND MODULATOR



MISSILE R-F TEST SET LOWER DRAWER



COMMAND MODULATOR TOP VIEW



SIGNAL DISTRIBUTION

R-F TEST SET COMMAND MODULATOR, NOTES (MEAS)

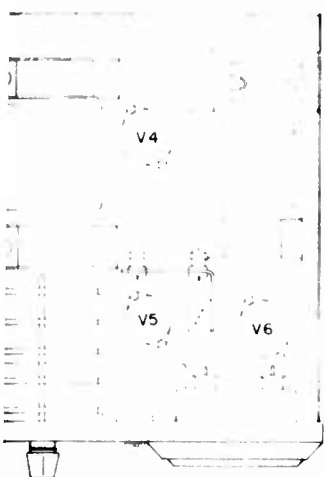
A

SIFIED

NOTES

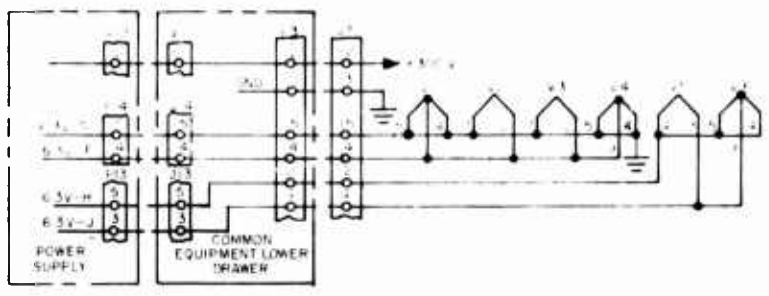
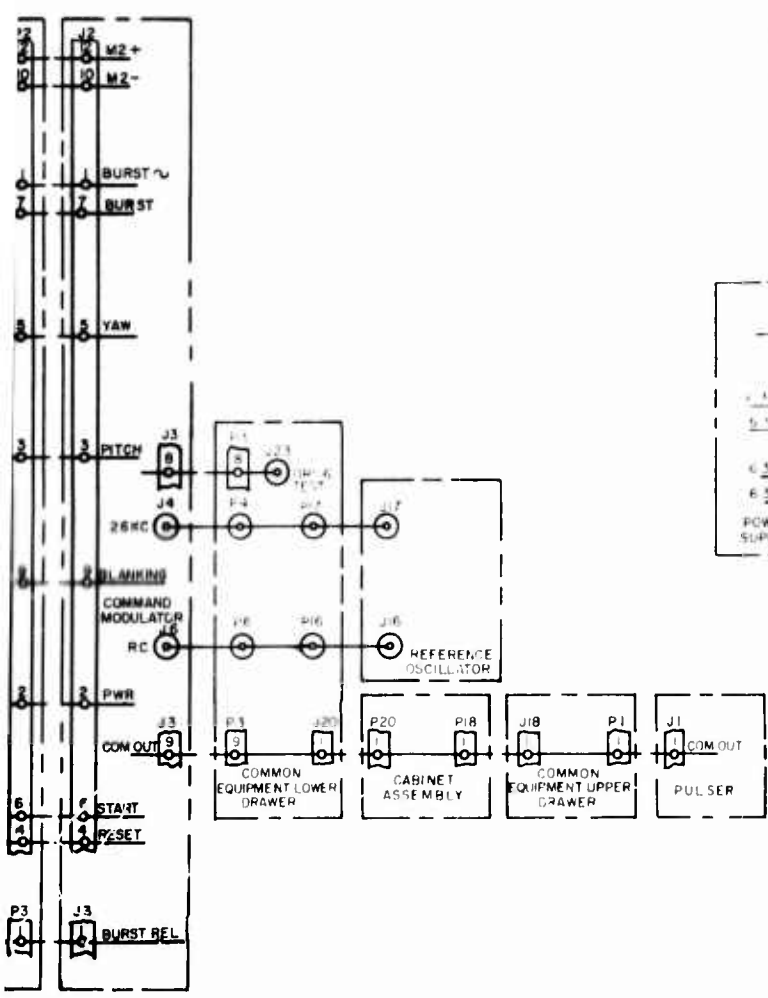
- 1 TERMINALS 14 AND 15 ON J2 AND TERMINALS 6 AND 10 ON J3 ARE NOT USED.
- 2 TERMINALS 2,3,5,6,9,10,15, AND 16 ON S1A AND 8 AND 18 ON S1B ARE PROVIDED FOR MECHANICAL ALIGNMENT BUT ARE NOT USED ELECTRICALLY.
- 3 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS:

SWITCH	POSITION
PITCH COMMAND	OG
YAW COMMAND	OG



RADIATOR TOP VIEW

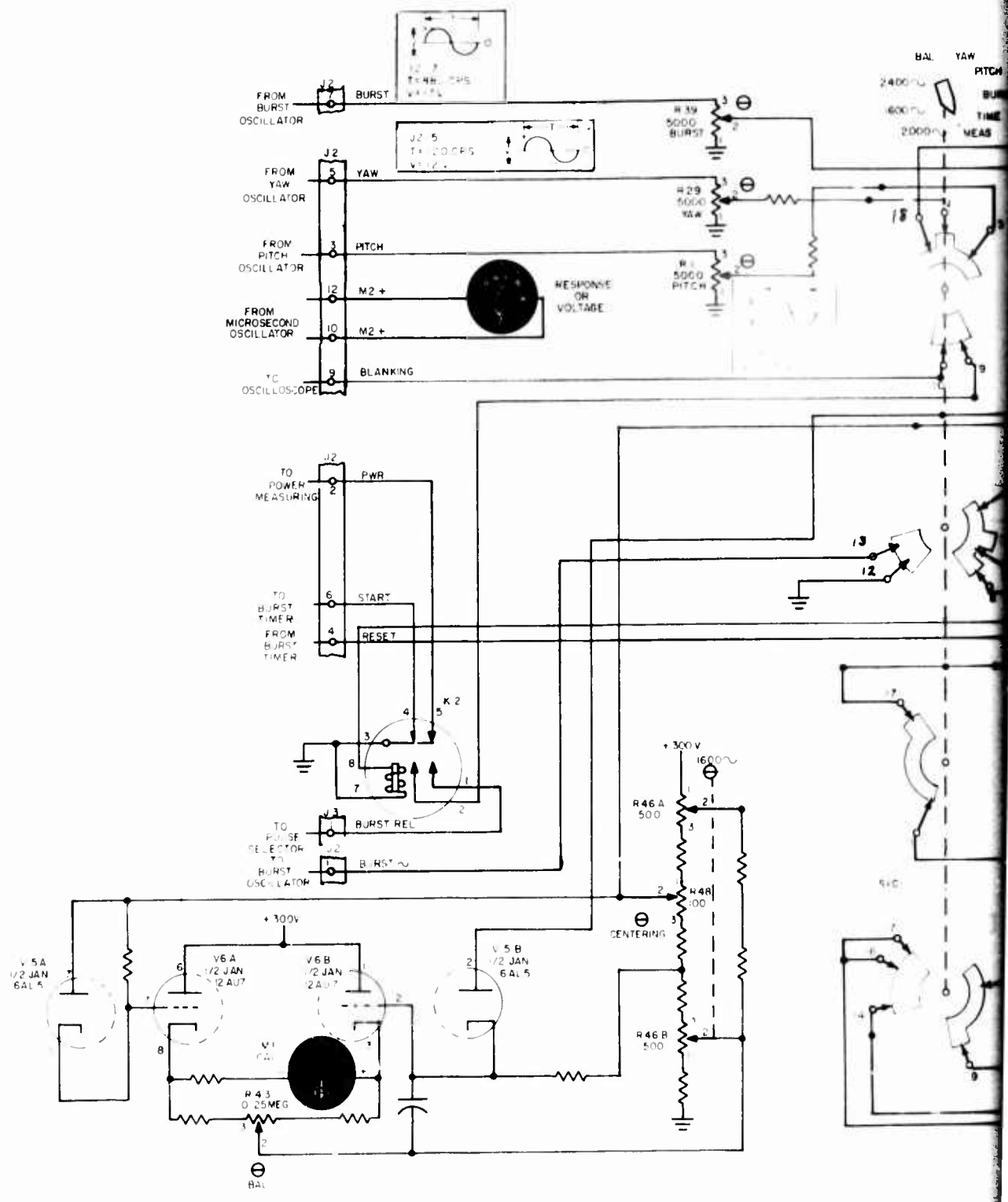
S1 SWITCH CONNECTION					
POSITION	S1A	S1B	S1C	S1D	S1E
2000	14-16-18		1-18	1-18, 9-10	
1600	1-18	2-1	2-18	2-18, 9-11	
2400			3-18	3-18, 9-12	3-4, 12-13
BAL	1-18	2-3	4-18, 9-12		4-5
YAW	4-18	2-4, 11-13	5-19, 12-13	5-18, 9-14	15-18
PITCH		2-5, 11-14	12-13-14	6-18, 9-15	16-18
BURST		2-6, 11-15	12-13-14	7-18, 9-16	17-18
TIME	4-7, 11-12	2-7	13-14-16	8-18, 9-17	3-18, 8-9
MEAS	4-7-8, 12-13	11-17	5-9, 14-16-17		1-3-18, 9-10



POWER DISTRIBUTION

TRIBUTION

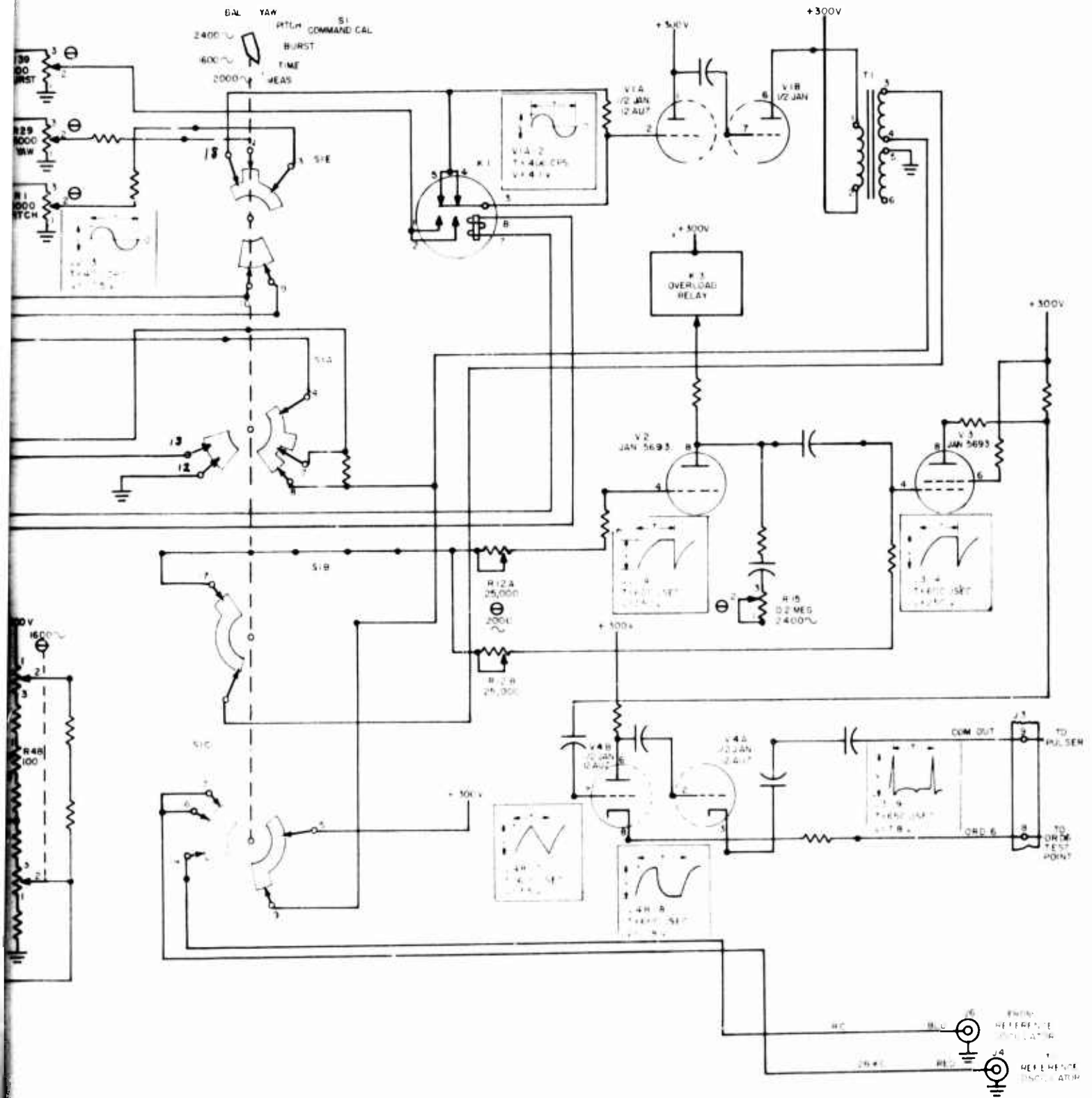
~~CONFIDENTIAL~~



WILLIAMS & ASSOCIATES
INCORPORATED

~~CONFIDENTIAL~~

A



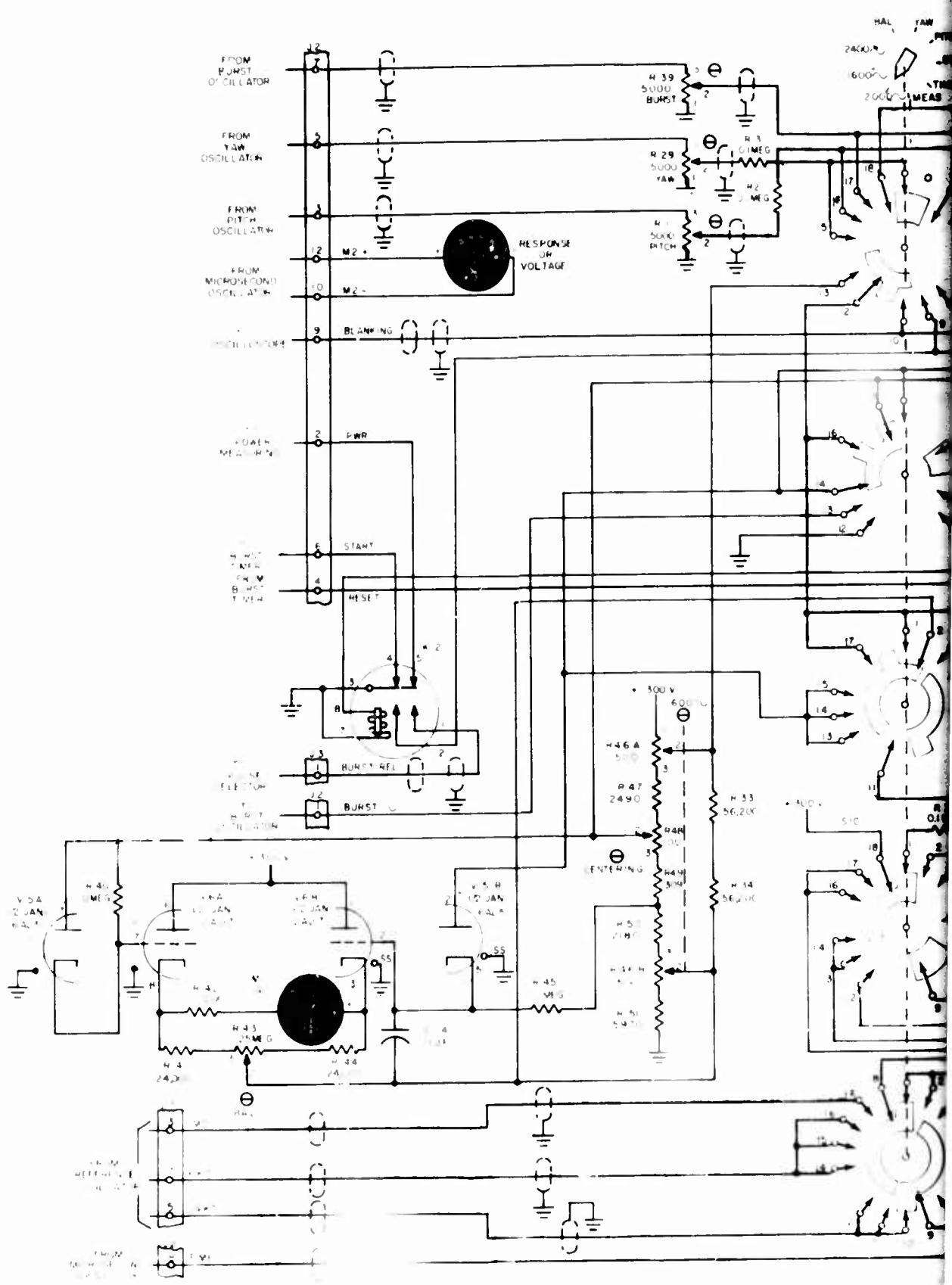
R.F. TEST SET COMMAND MODULATOR SIMPLIFIED SCHEMATIC (MEAS)

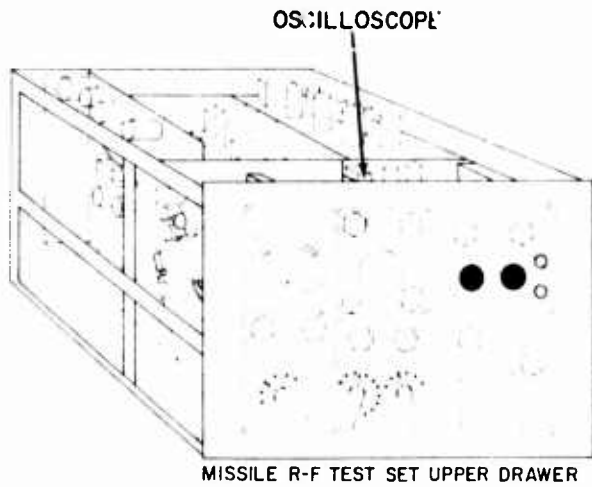
~~CONFIDENTIAL~~

SOCKET NO.	TUBE NO.	TUBE TYPE	FL	PLATE			SUPPRESSOR			SCREEN			
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN

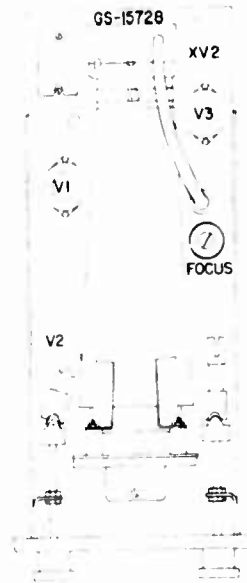
THIS DATA NOT AVAILABLE

~~CONFIDENTIAL~~

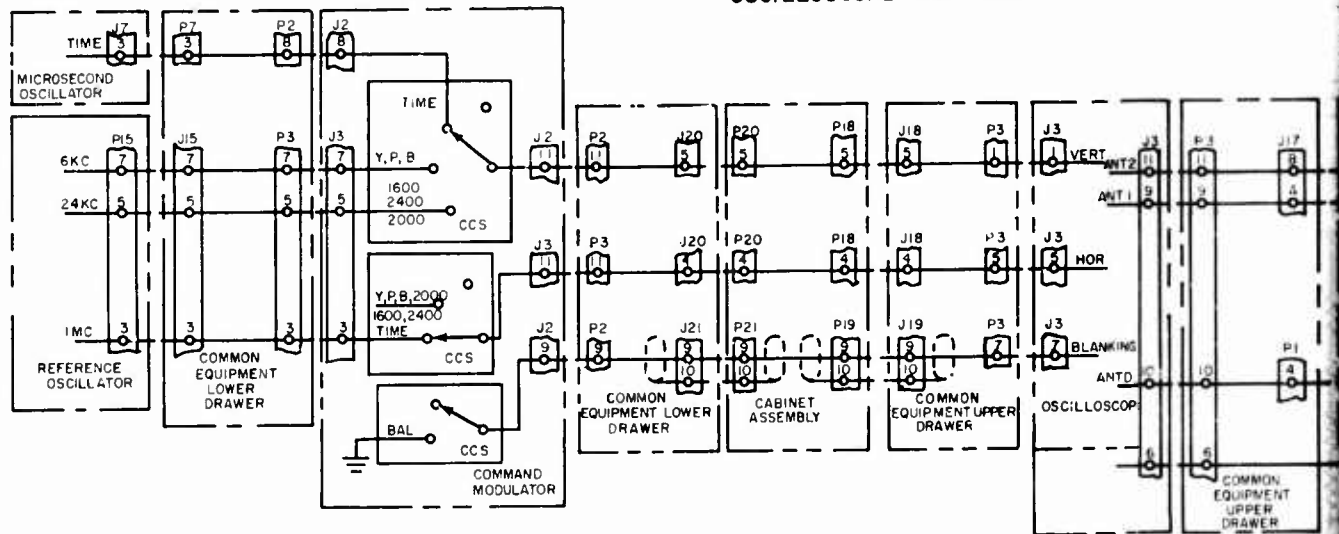




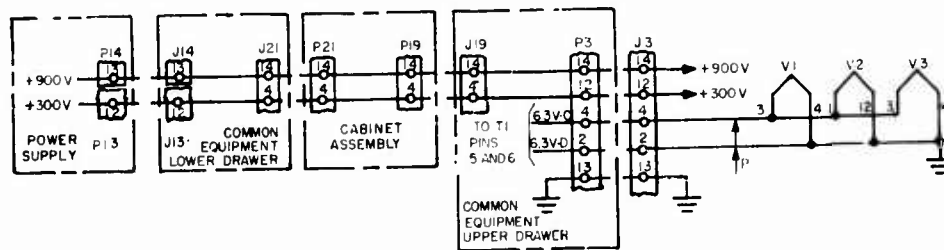
MISSILE R-F TEST SET UPPER DRAWER



OSCILLOSCOPE TOP VIEW



SIGNAL DISTRIBUTION



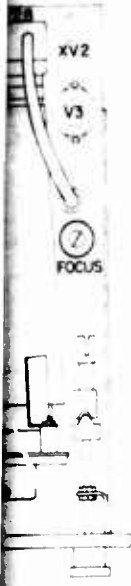
POWER DISTRIBUTION

R-F TEST SET OSCILLOSCOPE, NOTES

UNCLASSIFIED

A

CLASSIFIED

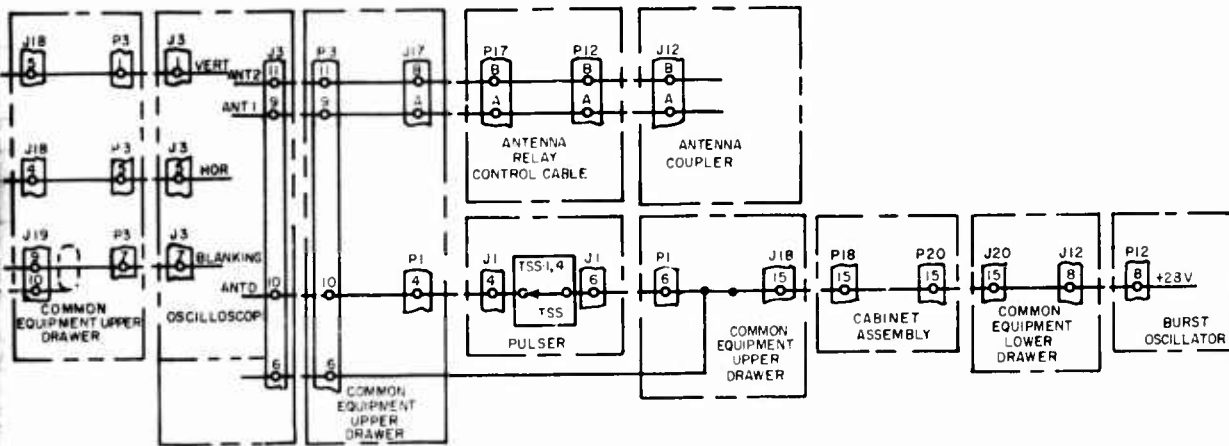


NOTES:

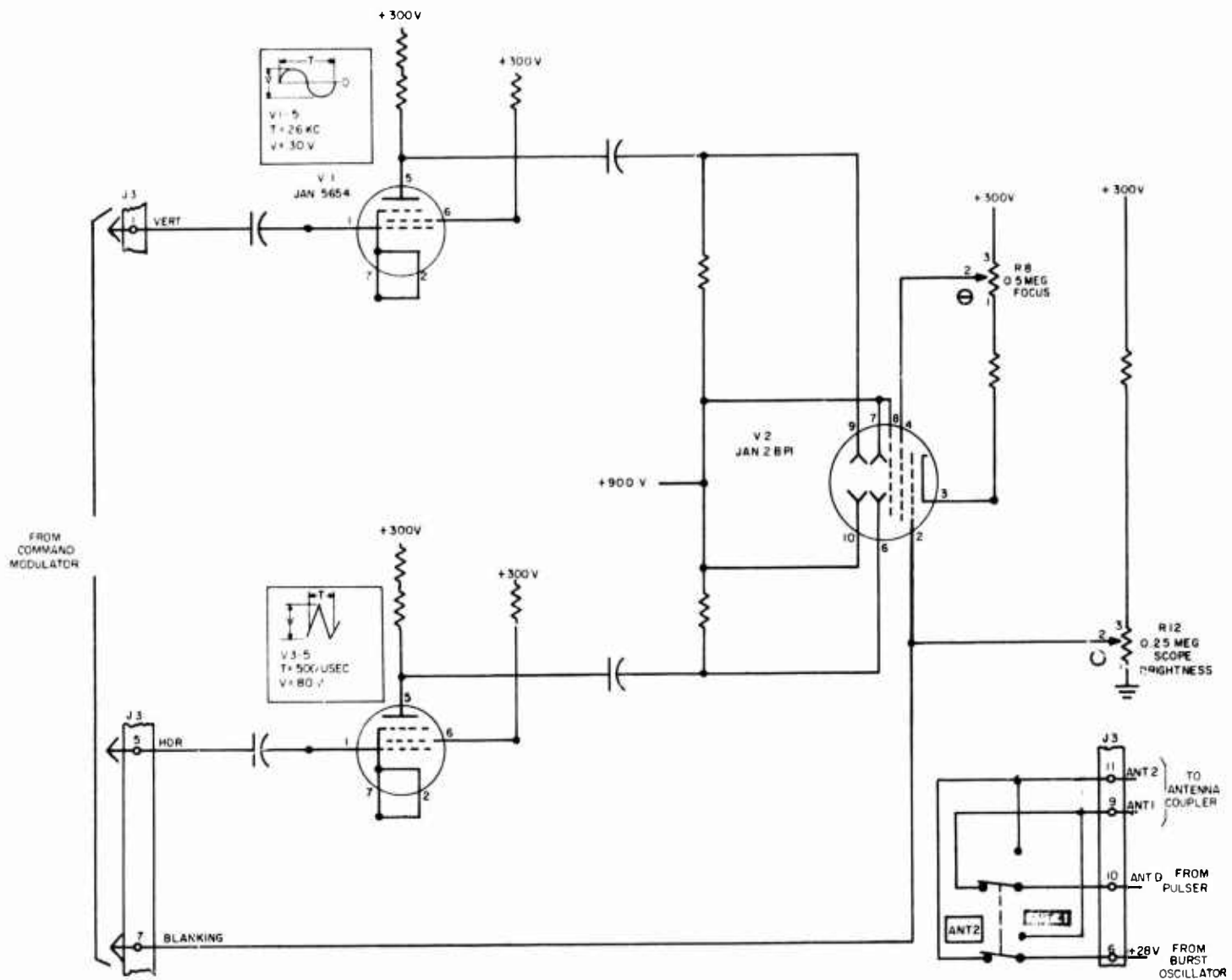
- 1. TERMINALS 3, 8 AND 15 ON J3 ARE NOT USED.
- 2. WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS:

SWITCH	POSITION
COMMAND CAL	YAW

TYPE TOP VIEW



CLASSIFIED



R-F TEST SET OSCILLOSCOPE SIMPLIFIED SCHEMATIC

~~CONFIDENTIAL~~
UNCLASSIFIED

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			CONTROL	
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS
THIS DATA NOT AVAILABLE														

A

UNCLASSIFIED
~~CONFIDENTIAL~~

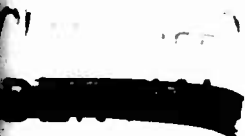
~~CONFIDENTIAL~~
CLASSIFIED

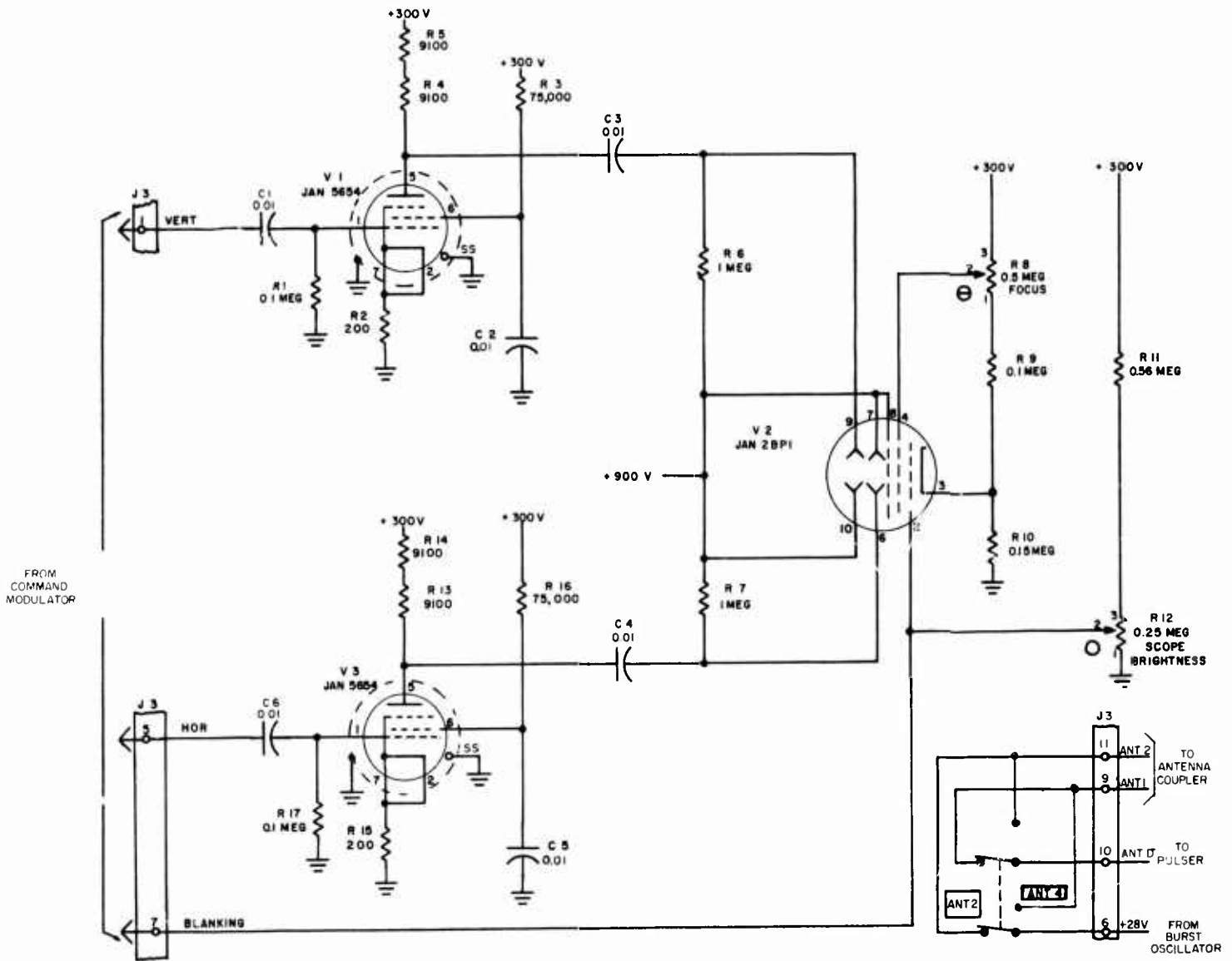


NOTES:

1. TERMINALS 3, 8 AND 15 ON J3 ARE NOT USED.

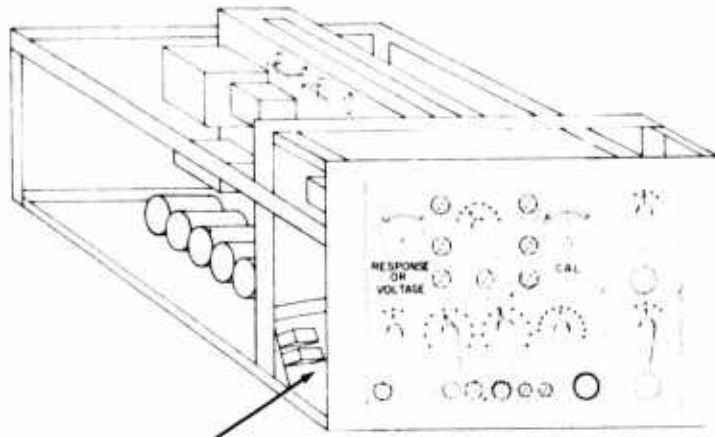
PIN	SCREEN			CONTROL			CATHODE			FILAMENT		
	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
DATA NOT AVAILABLE												





GS-15728 R-F TEST SET OSCILLOSCOPE

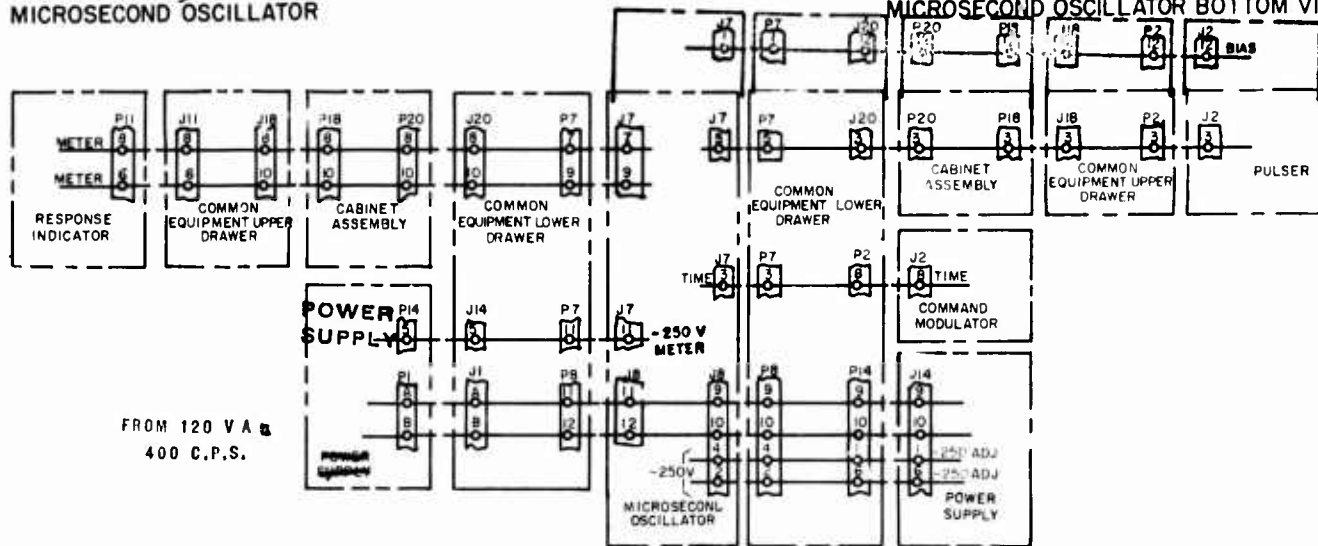
UNCLASSIFIED



MICROSECOND OSCILLATOR

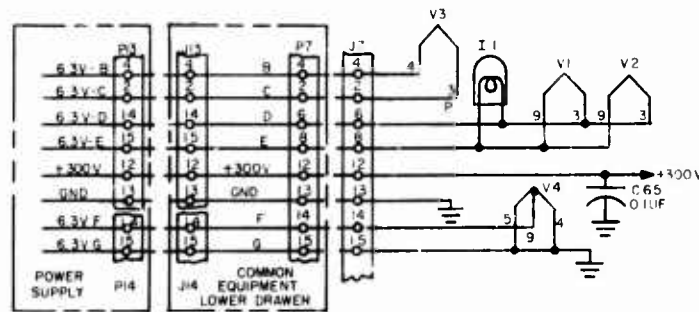
MISSILE R-F TEST SET LOWER DRAWER

MICROSECOND OSCILLATOR BOTTOM VIEW



FROM 120 V A
400 C.P.S.

SIGNAL DISTRIBUTION



POWER DISTRIBUTION

R-F TEST SET MICROSECOND OSCILLATOR, NOTES

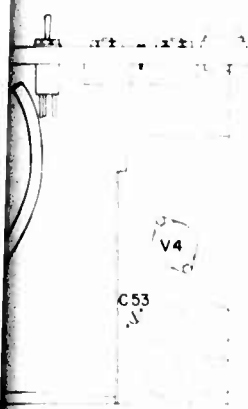
A

ED



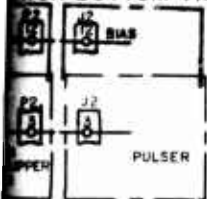
NOTES:

- 1. TERMINAL 10 ON J7, TERMINALS 1,6,7,8,13,14, AND 15 ON J6 AND TERMINALS C TO L ON J9 ARE NOT USED
- 2. FOR CONNECTING TO RECEIVER IN TELEPHONE SETS SUCH AS HG1/U HEADSET HANDSET DURING PATTERN MODULATOR MOTOR TEST
- 3. UNUSED TERMINALS 2,5, AND 7 ON V1 AND V2 ARE GROUNDED

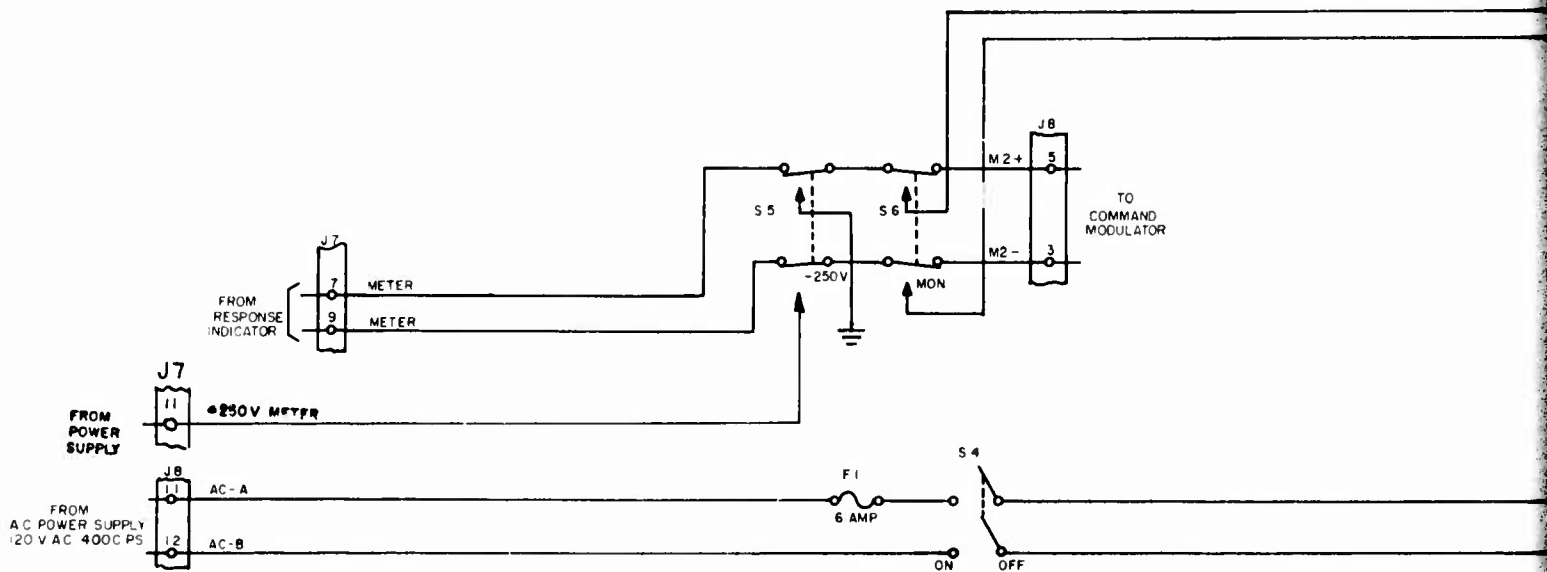
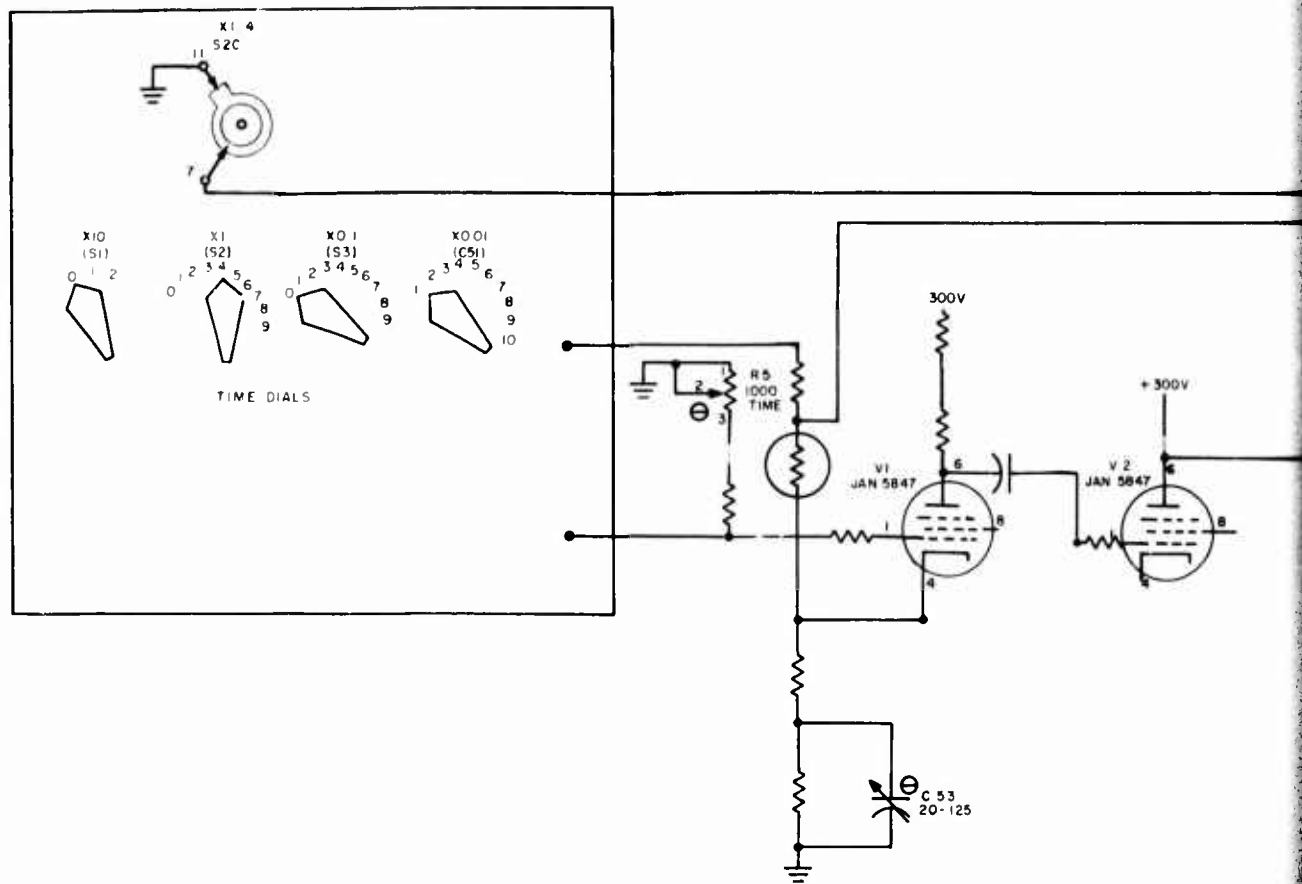


POSITION	SWITCH CONNECTION			
	S1A & S1B	S2A & S2B	S2C	S3A & S3B
0				
1	12-4-7	8-5		12-3
2	12-5-8-6	8-9-5-6		12-3 12-3
3		9-10-5-6		12-5 12-3
4		10-11-5-6	7-11	12-5 12-5
5		11-12-5-6		12-7 12-5
6		12-1-5-6		12-7 12-7
7		1-2-5-6		12-9 12-7
8		2-3-5-6		12-9 12-9
9		3-4-5-6		12-11 12-9

MODULATOR BOTTOM VIEW

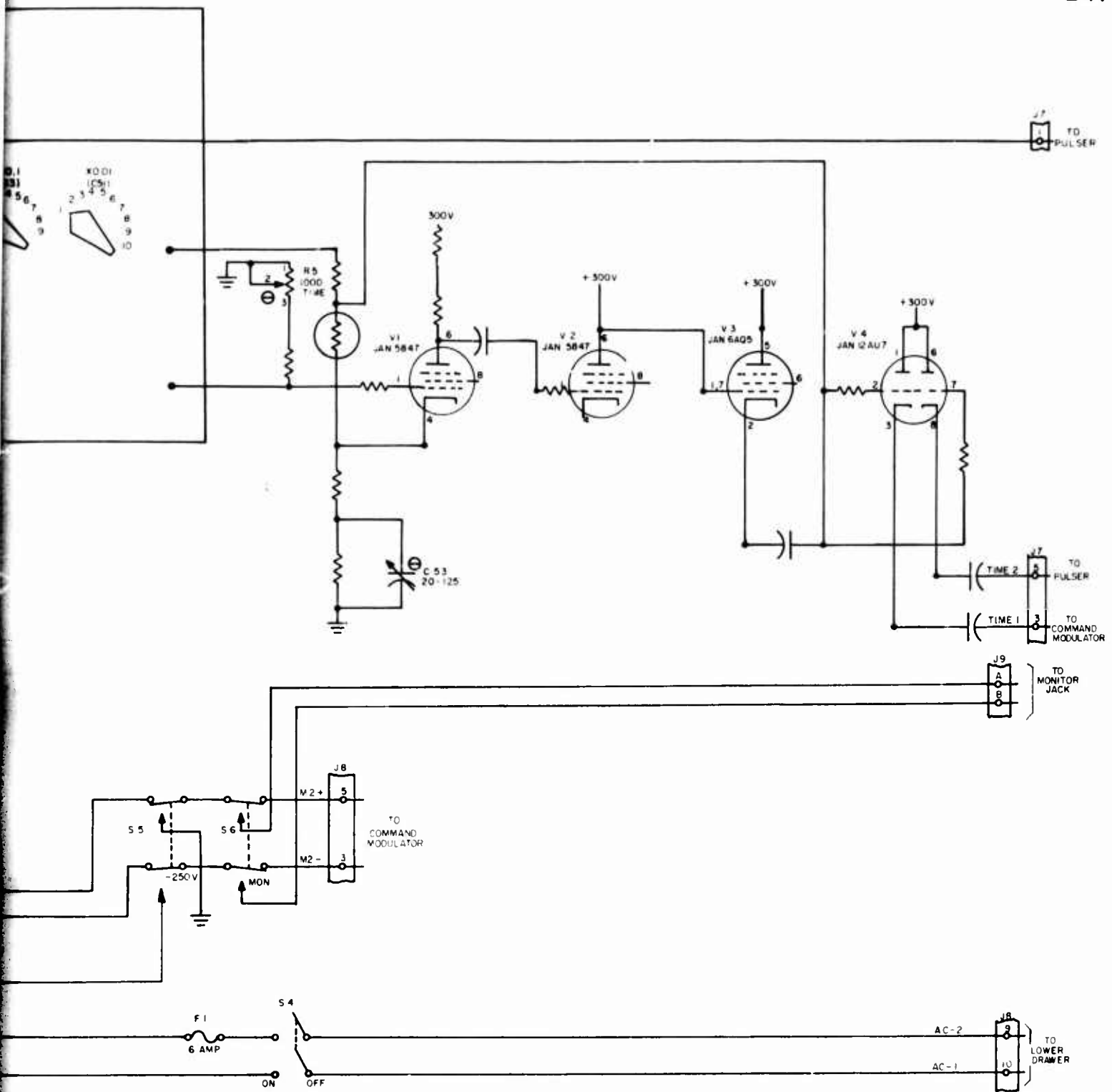


UNCLASSIFIED



R-F TEST SET

A



R-F TEST SET MICROSECOND OSCILLATOR SIMPLIFIED SCHEMATIC

A

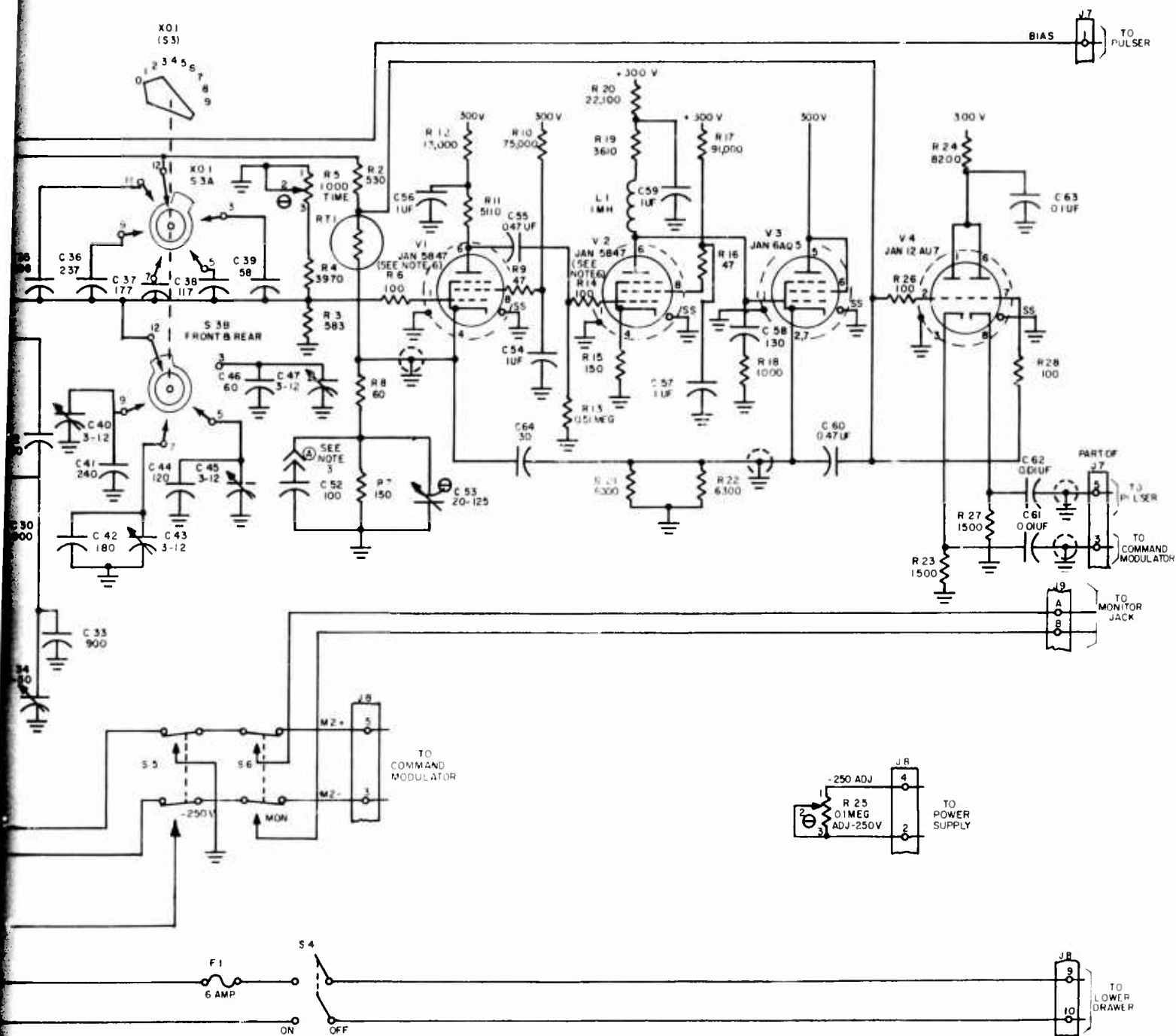
B

ED

NOTES:

- 1 TERMINAL 10 ON J7, TERMINALS 1,6,7,8,13,14, AND 15 ON J8 AND TERMINALS C TO L ON J9 ARE NOT USED
- 2 FOR CONNECTING TO RECEIVER IN TELEPHONE SETS SUCH AS HG1/U HEADSET HANDSET DURING PATTERN MODULATOR MOTOR TEST
- 3 UNUSED TERMINALS 2,5, AND 7 ON V1 AND V2 ARE GROUNDED

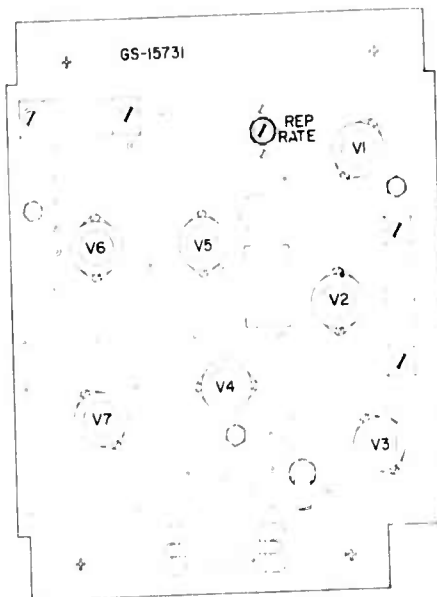
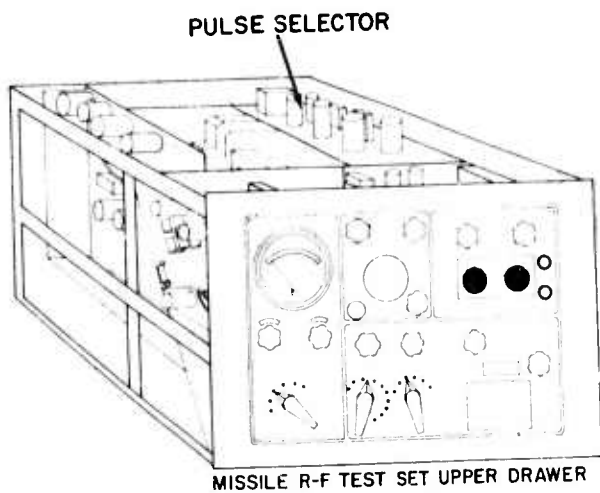
SOR	SCREEN			CONTROL			CATHODE			FILAMENT		
	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS
S DATA NOT AVAILABLE												



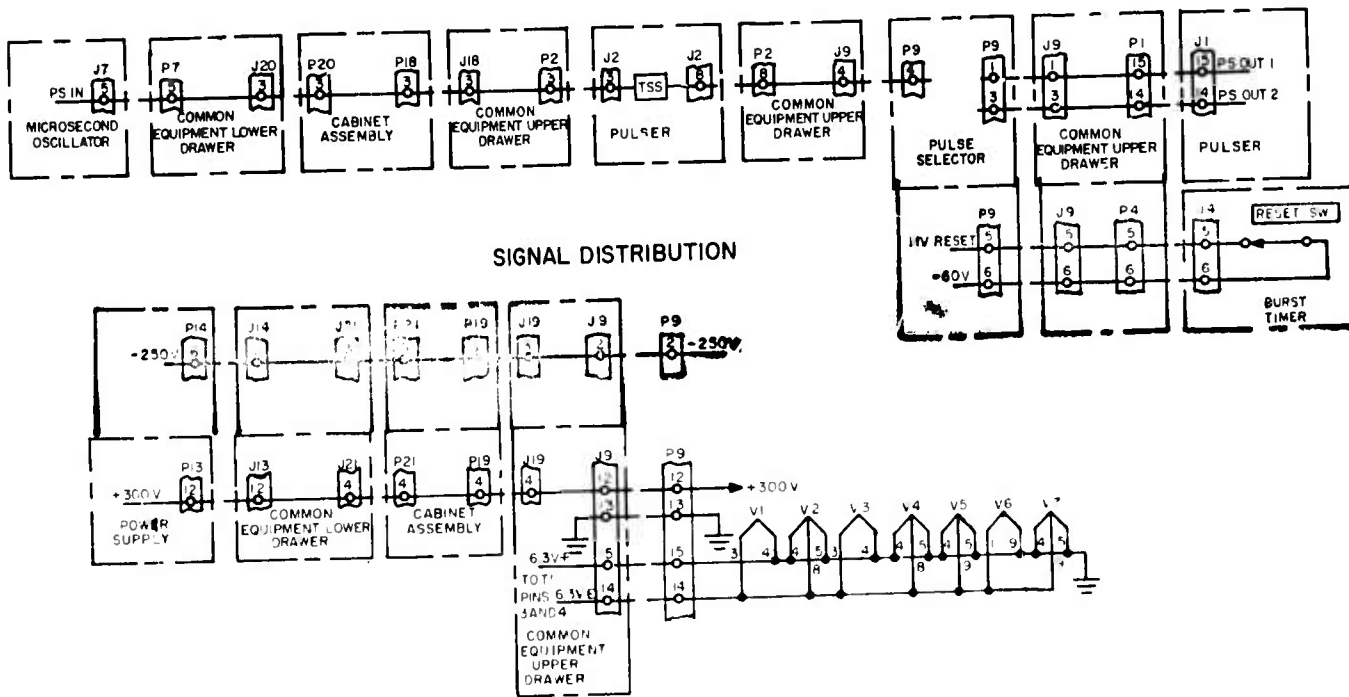
GS-15737 R.F. TEST SET MICROSECOND OSCILLATOR

73

UNCLASSIFIED



PULSE SELECTOR TOP VIEW



R-F TEST SET PULSE SELECTOR, NOTES (TEST SIG)

UNCLASSIFIED

IFIED

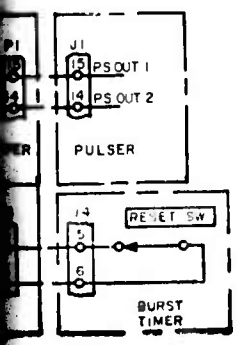


IEW

NOTES:

- 1 TERMINAL 7 ON P9 IS NOT USED.
- 2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

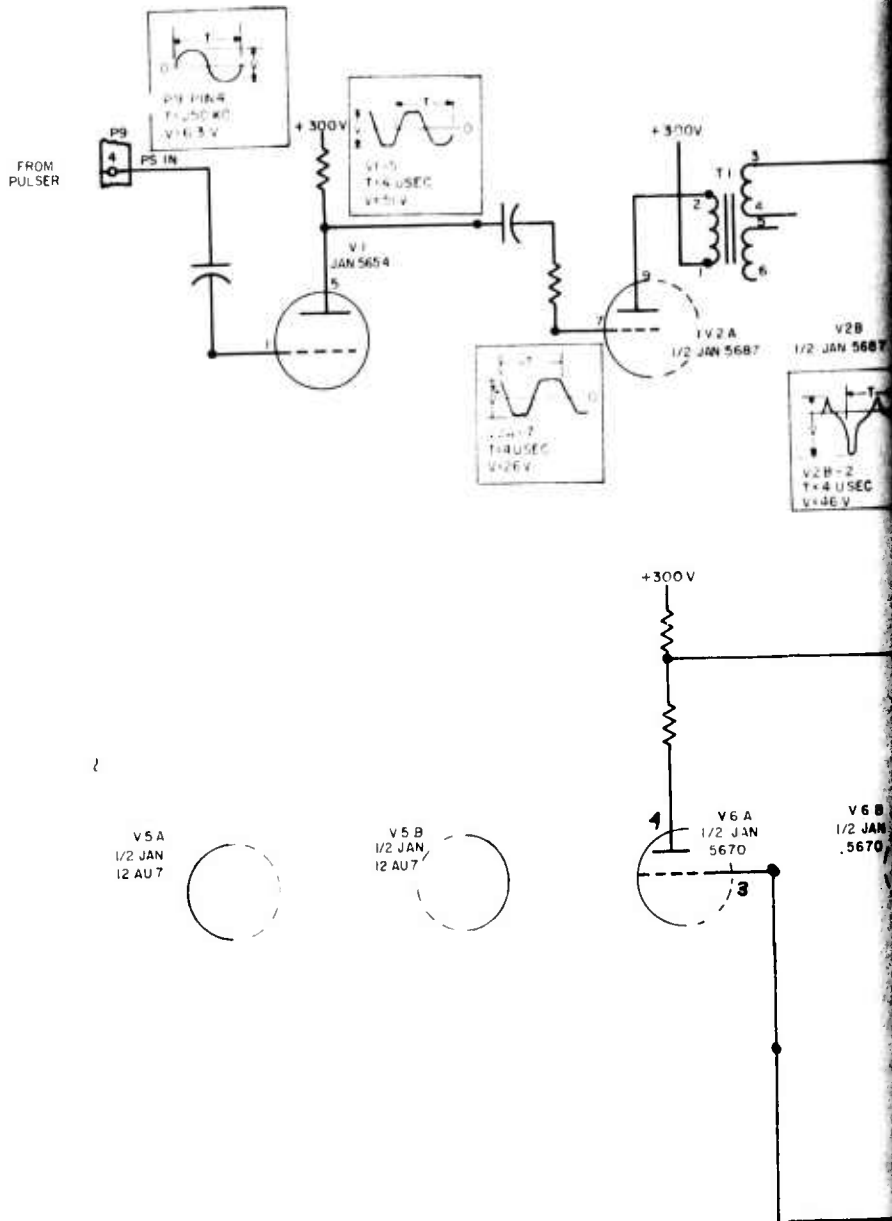
<u>SWITCH</u>	<u>POSITION</u>
TIME	4.00



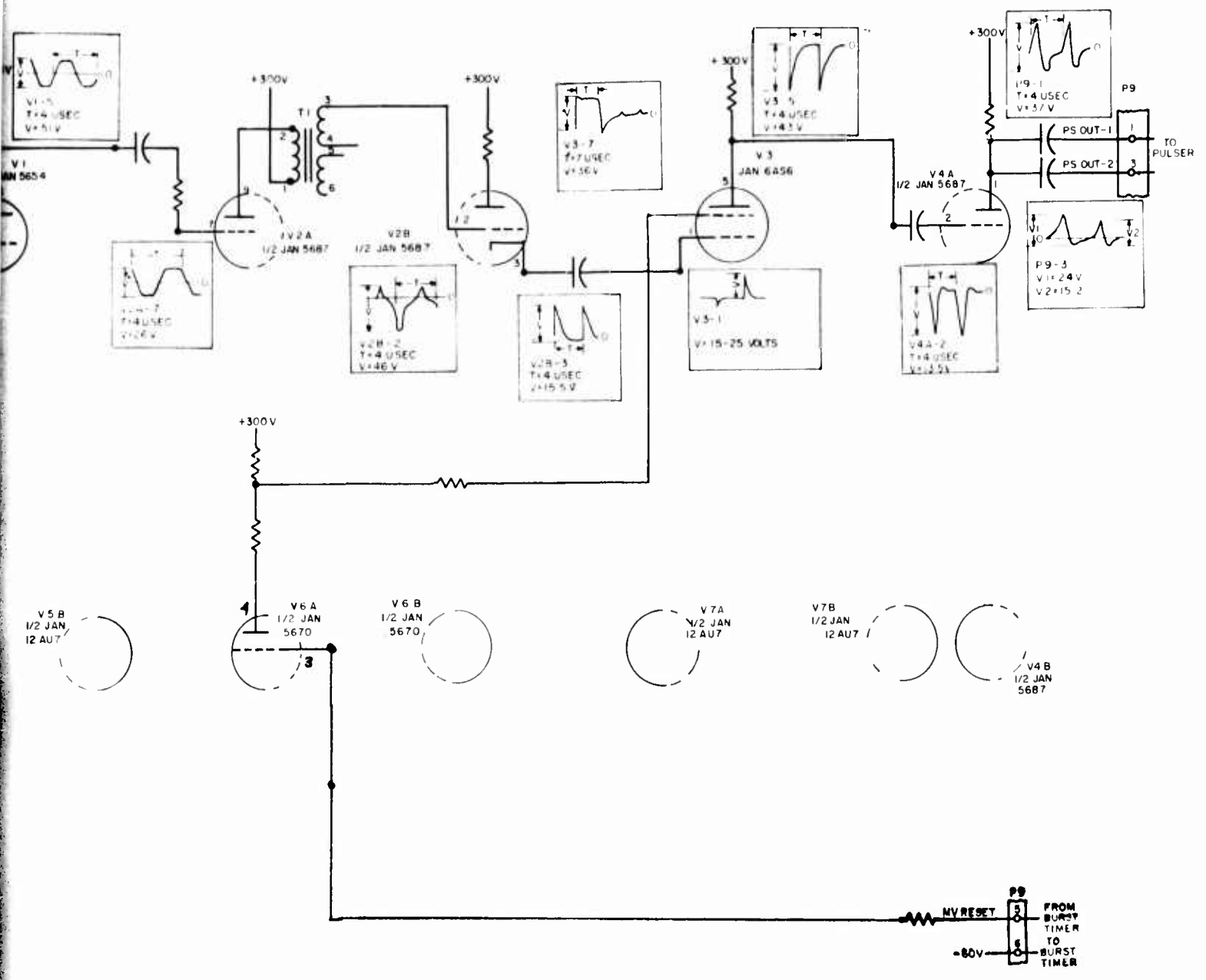
ED



UNCLASSIFIED



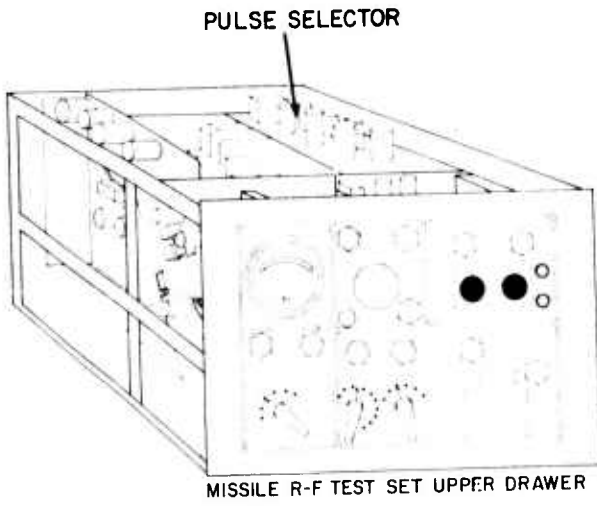
A



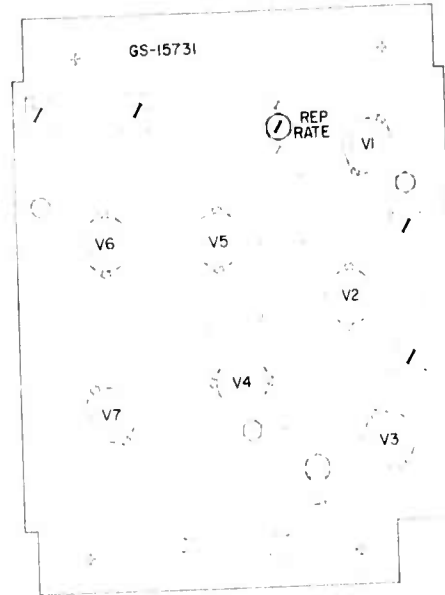
R-F TEST SET PULSE SELECTOR SIMPLIFIED SCHEMATIC (TSS I-TEST SIG)

~~CONFIDENTIAL~~

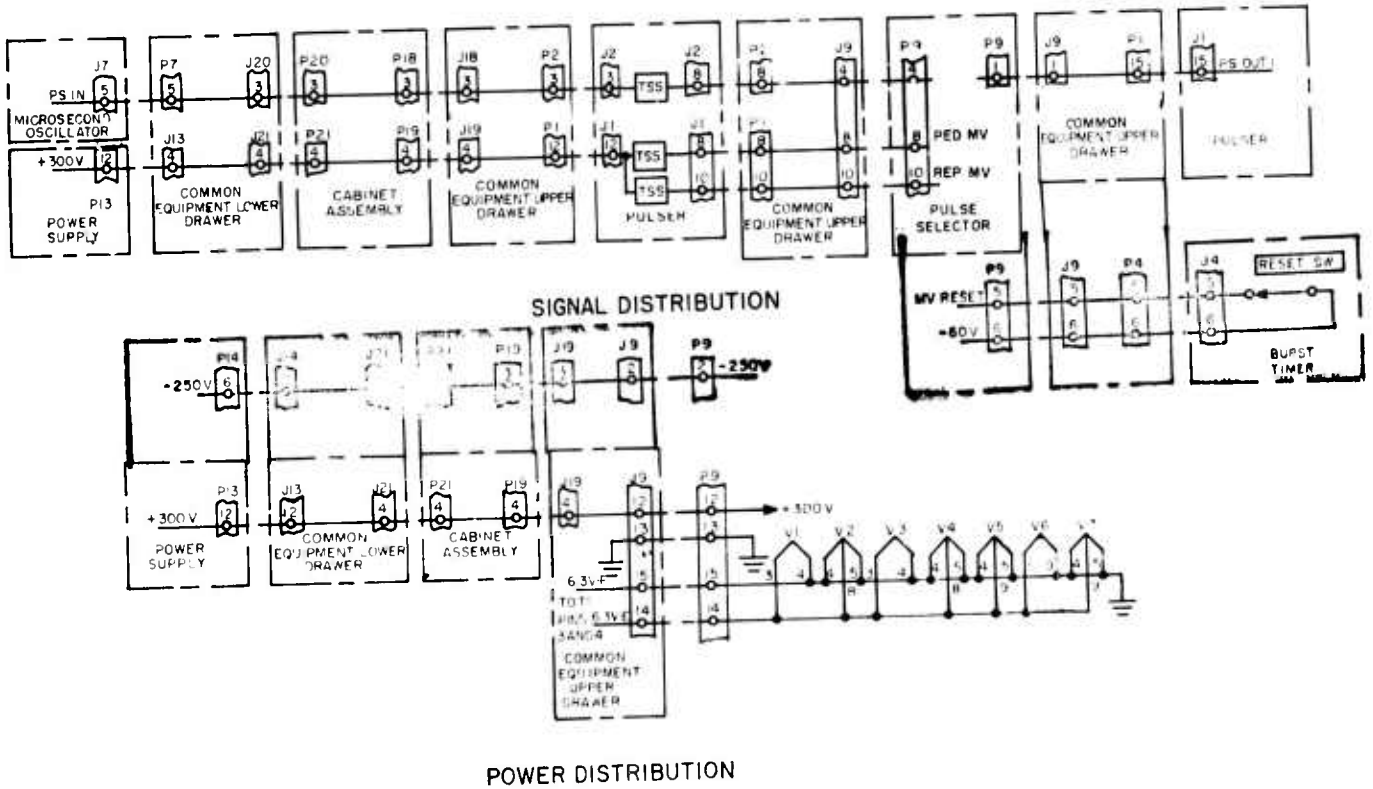
UNCLASSIFIED



MISSILE R-F TEST SET UPPER DRAWER



PULSE SELECTOR TOP VIEW



R-F TEST SET PULSE SELECTOR, NOTES (REC. SENS & TRANS TEST)

UNCLASSIFIED

~~CONFIDENTIAL~~

A

CLASSIFIED

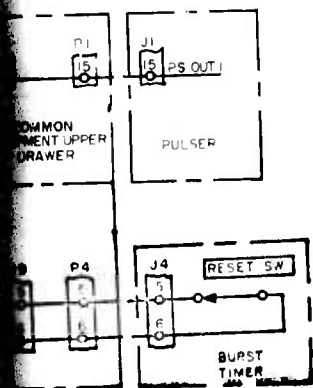
NOTES:

- 1 TERMINAL 7 ON P9 IS NOT USED.
- 2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

<u>SWITCH</u>	<u>POSITION</u>
<u>TIME</u>	4.00

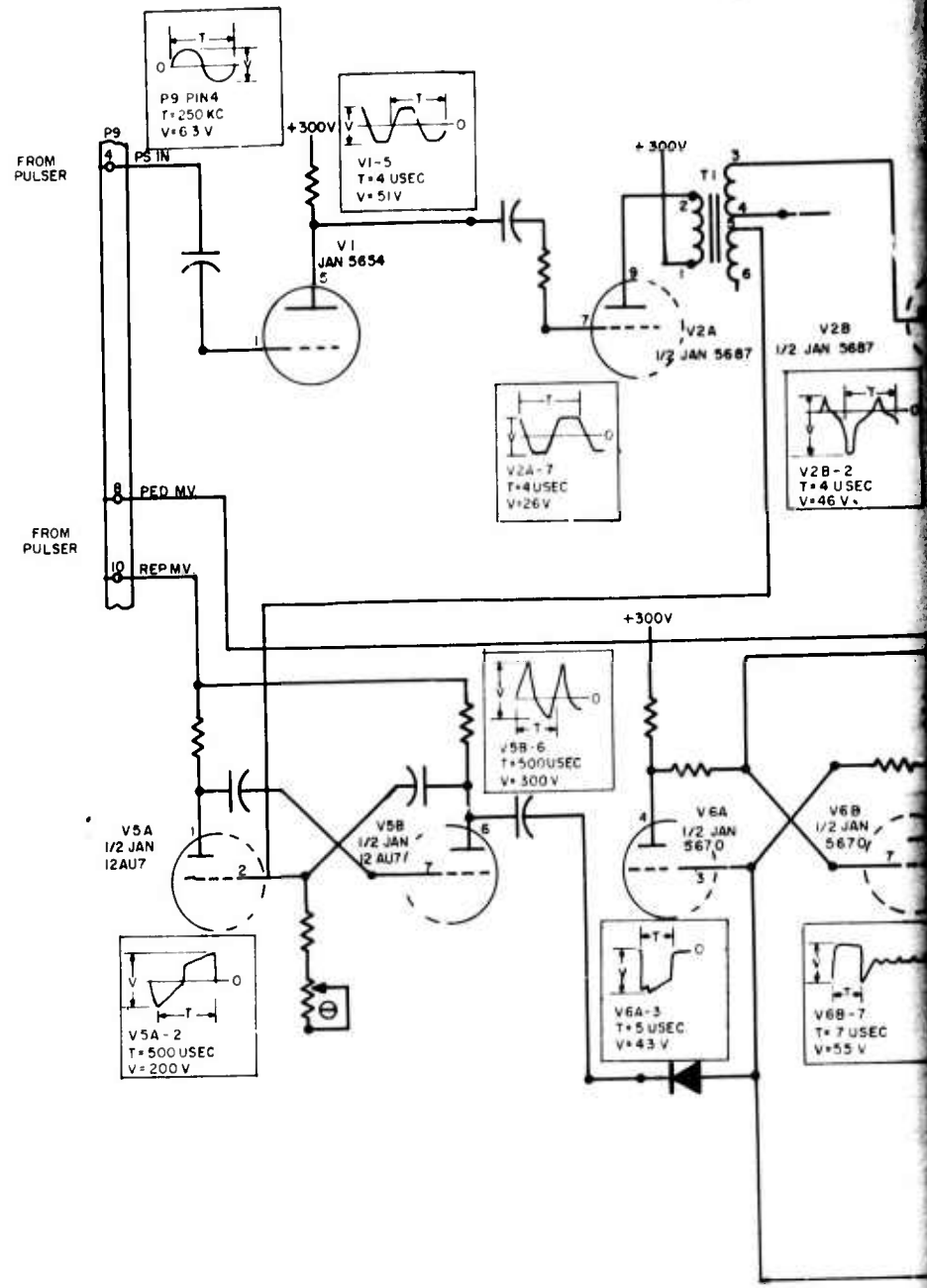


W



~~CONFIDENTIAL~~

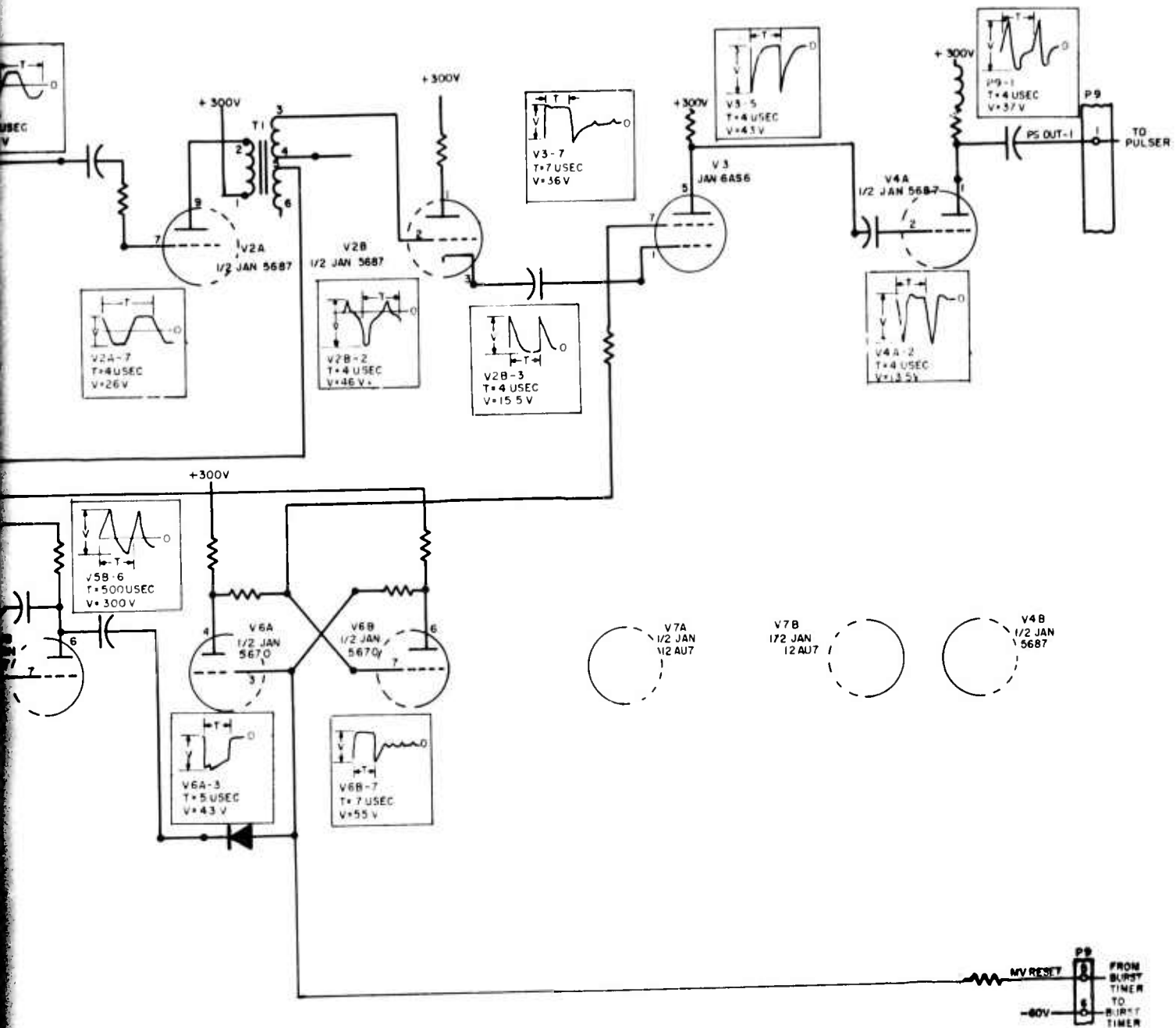
~~CONFIDENTIAL~~



UNCLASSIFIED

~~CONFIDENTIAL~~

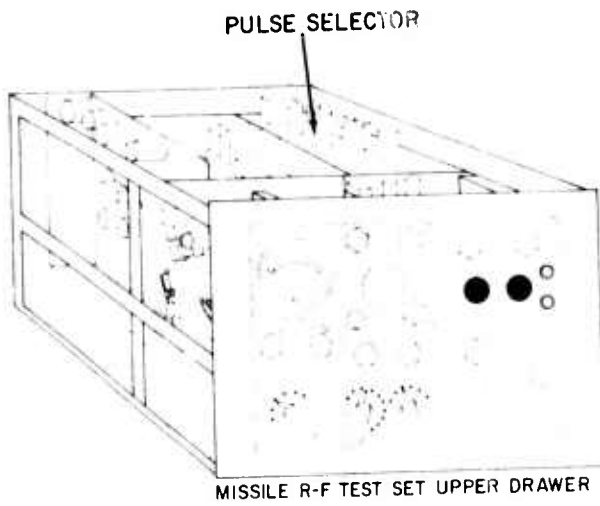
A



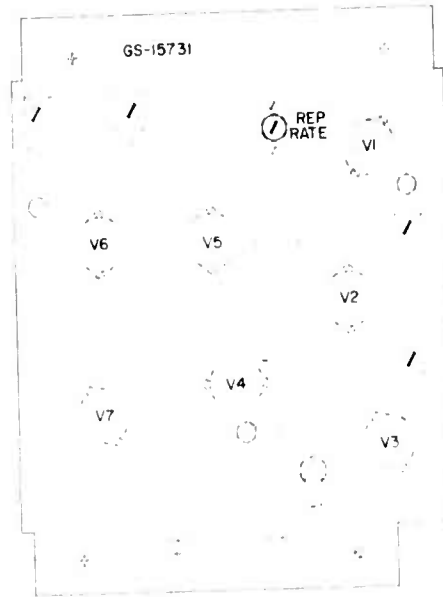
R-F TEST SET PULSE SELECTOR SIMPLIFIED SCHEMATIC
(REC SENS & TRANS TEST TSS 2 AND 3)

B

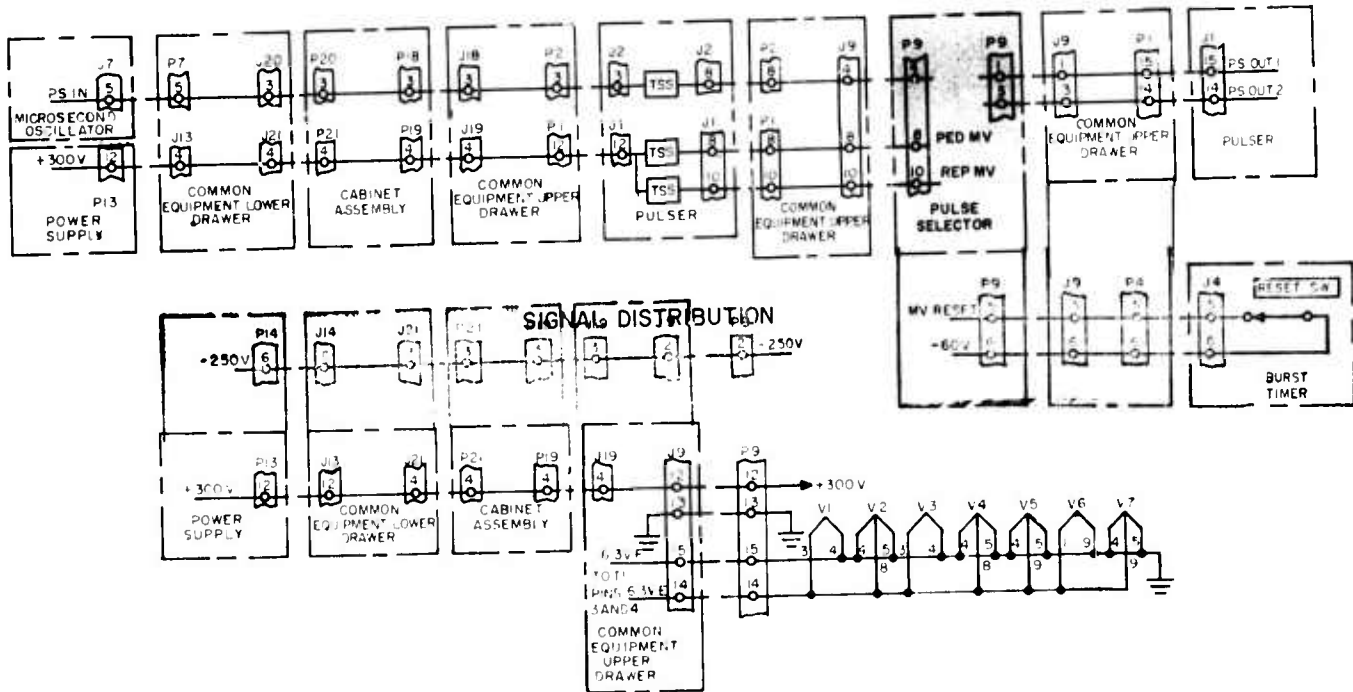
UNCLASSIFIED



MISSILE R-F TEST SET UPPER DRAWER



PULSE SELECTOR TOP VIEW



POWER DISTRIBUTION

R-F TEST SET PULSE SELECTOR, NOTES (RESP TIME A & B)

A

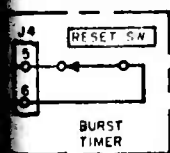
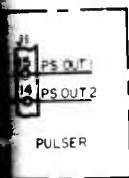
CONFIDENTIAL

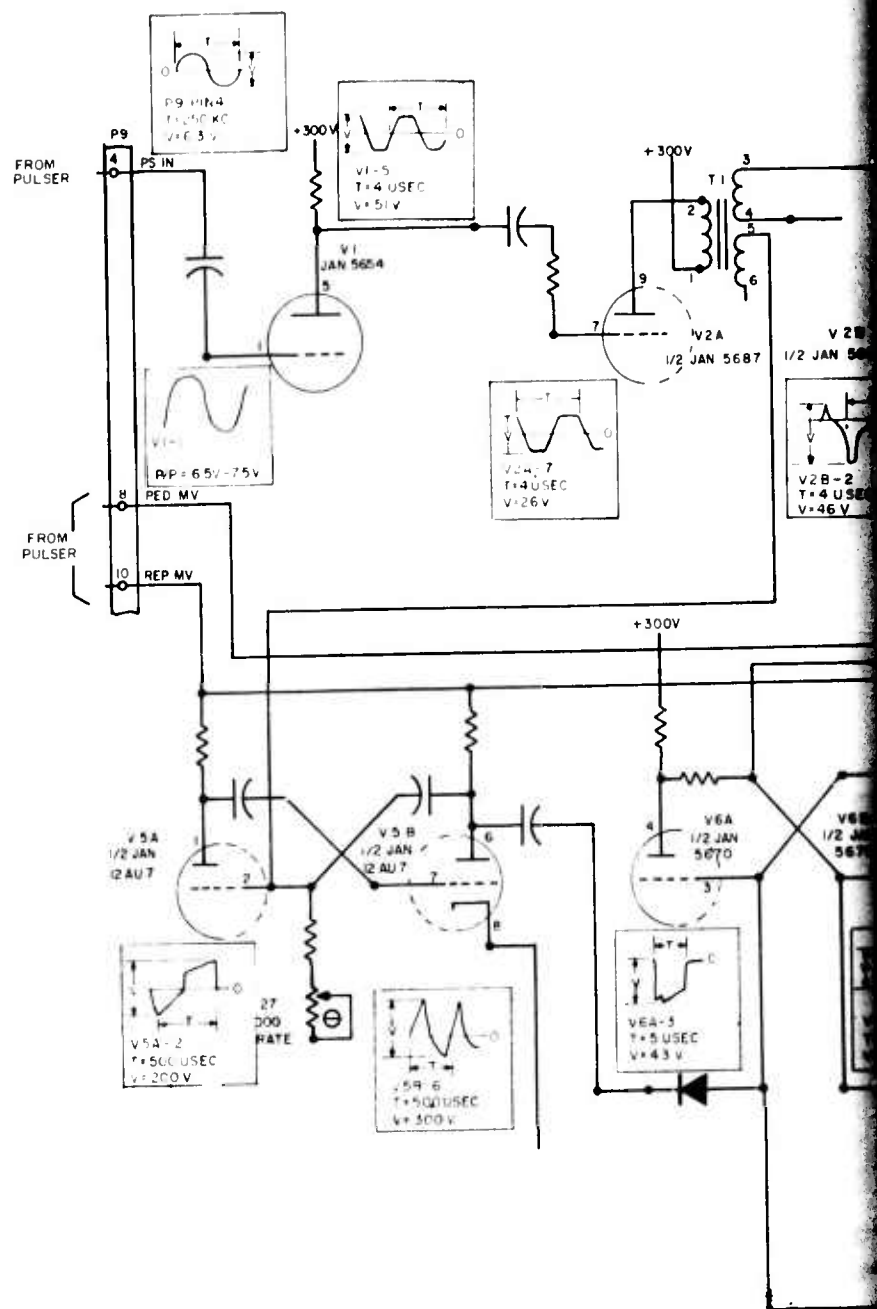
NOTES:

- 1 TERMINAL 7 ON P9 IS NOT USED.
- 2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

SWITCH
TIME

POSITION
4.00



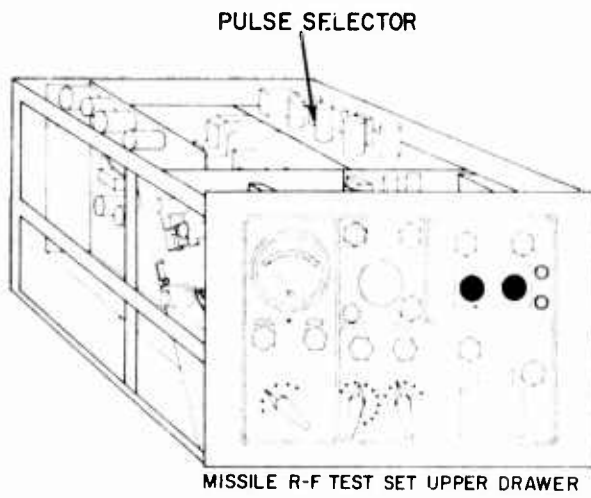


NO. 1

CONFIDENTIAL

A

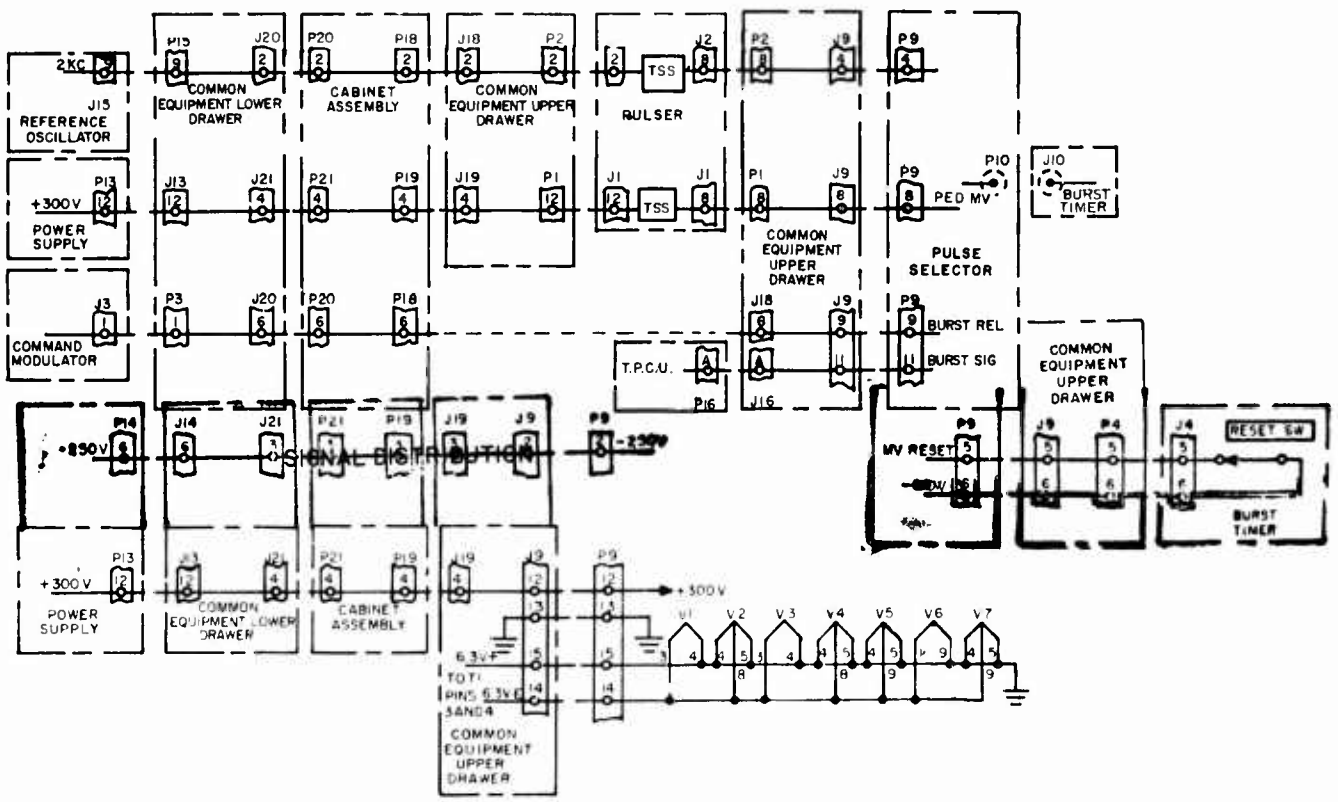
~~CONFIDENTIAL~~



MISSILE R-F TEST SET UPPER DRAWER



PULSE SELECTOR TOP VIEW



POWER DISTRIBUTION

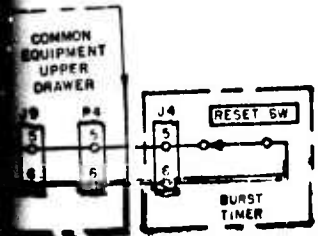
R-F TEST SET PULSE SELECTOR, NOTES (COM SIG)

~~CONFIDENTIAL~~

A

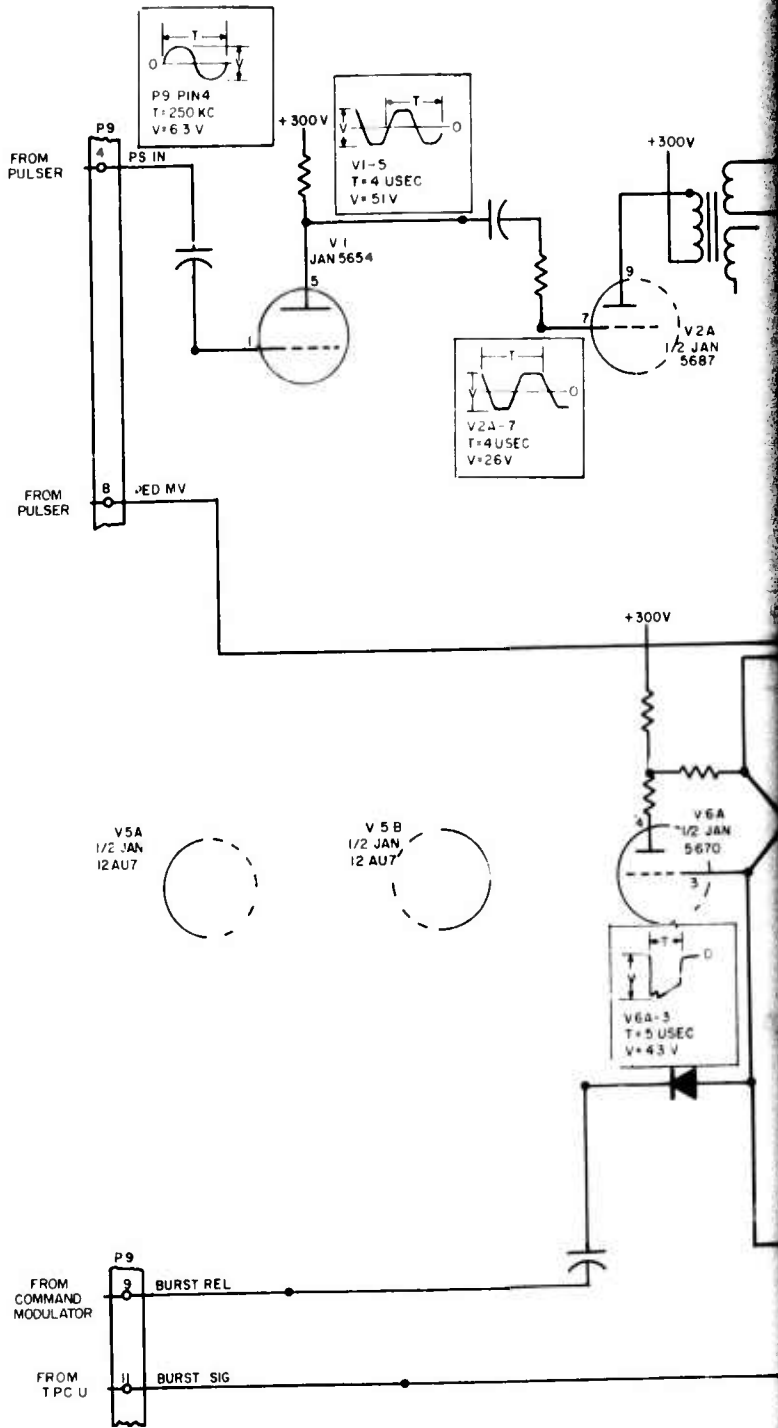
NOTES:

1 TERMINAL 7 ON P9 IS NOT USED.



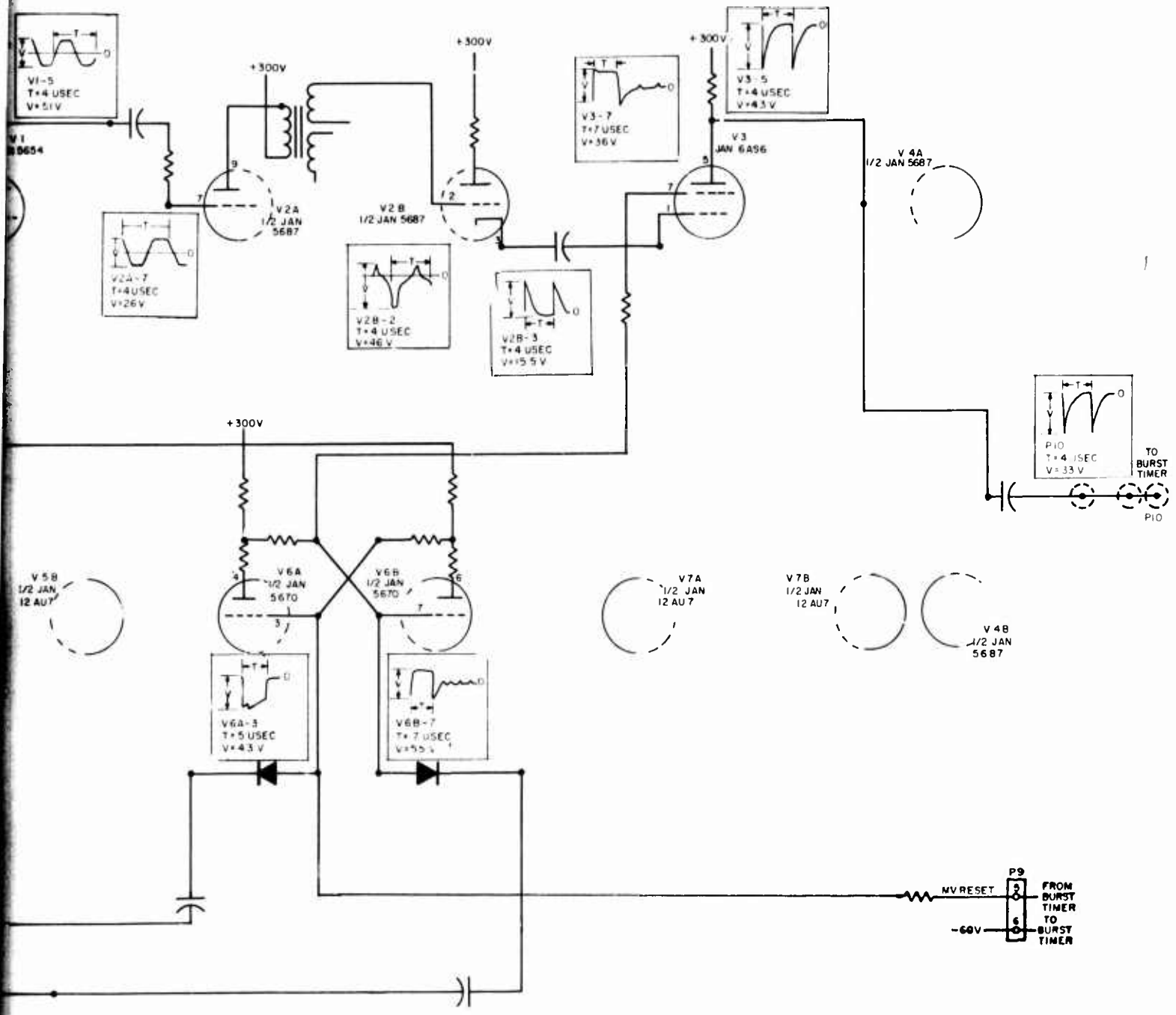
~~CONFIDENTIAL~~

UNCLASSIFIED



A

~~CONFIDENTIAL~~



R-F TEST SET PULSE SELECTOR SIMPLIFIED SCHEMATIC (TSS 6-COMM SIG)

23

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			PIN	V
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS		

THIS DATA NOT AVAILABLE

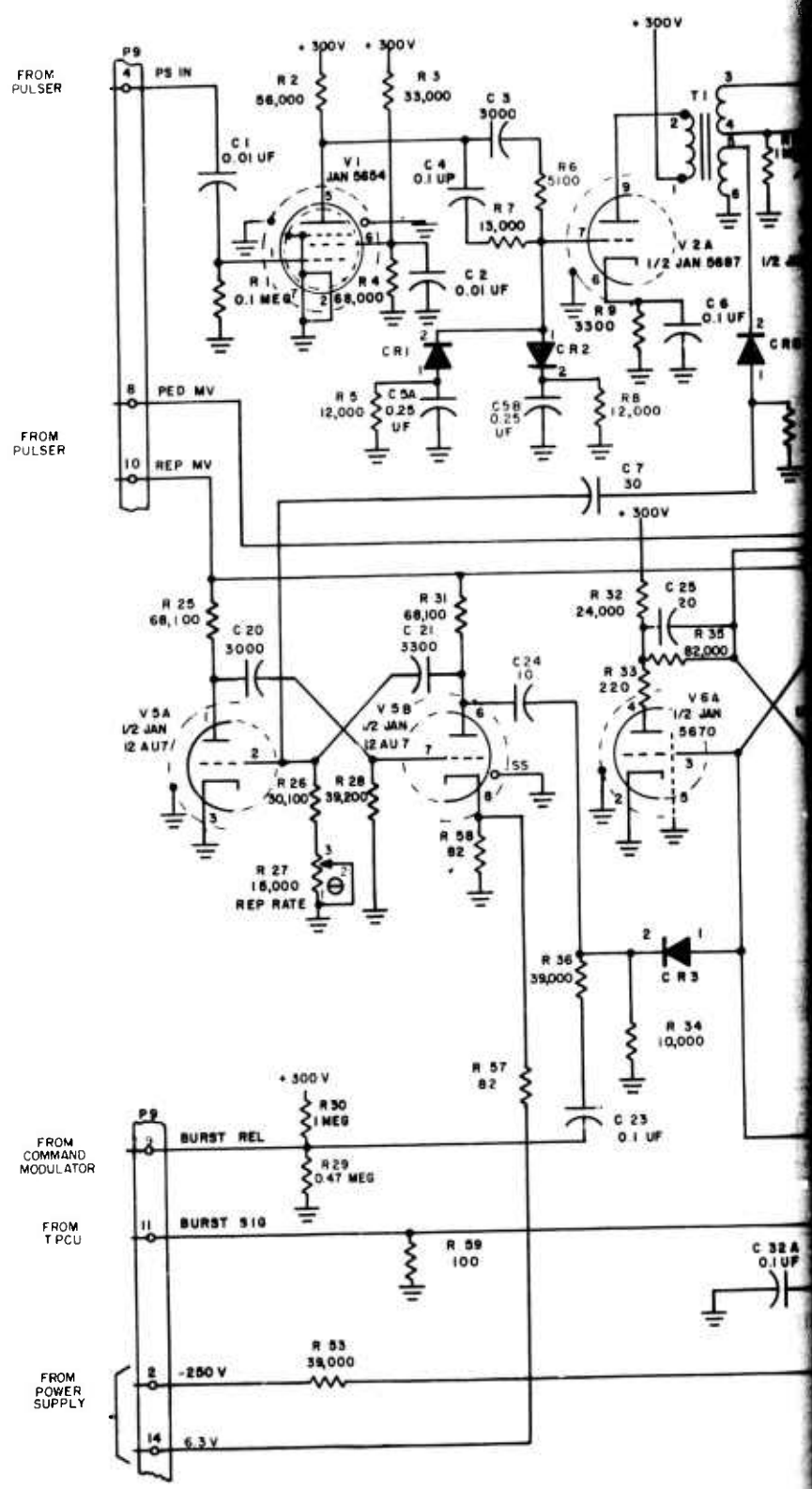
NOTES:

1 TERMINAL 7 ON P9 IS NOT USED

SOR	SCREEN			CONTROL			CATHODE			FILAMENT		
	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS
DATA NOT AVAILABLE												

~~CONFIDENTIAL~~

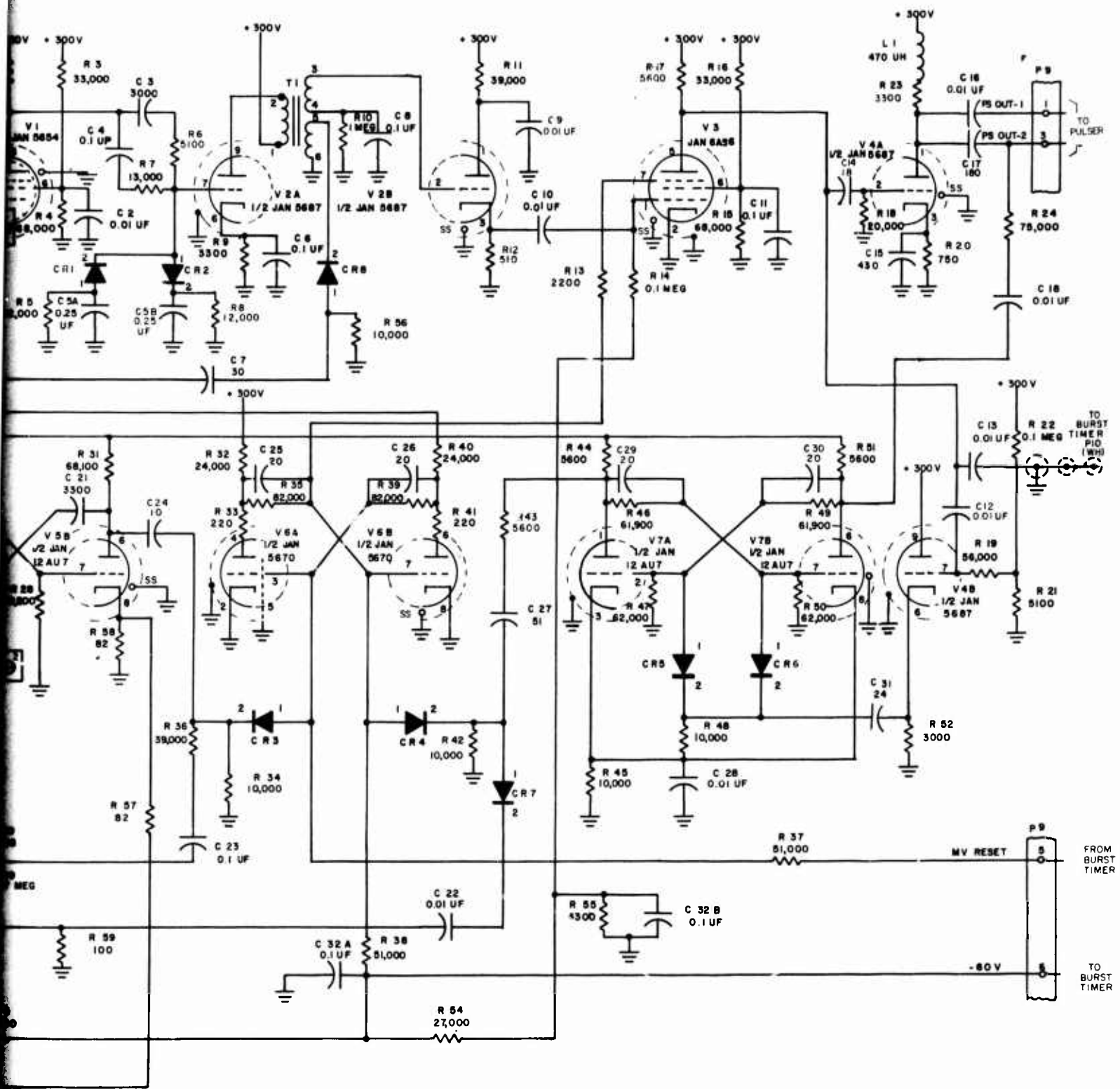
~~UNCLASSIFIED~~



A

~~CONFIDENTIAL~~

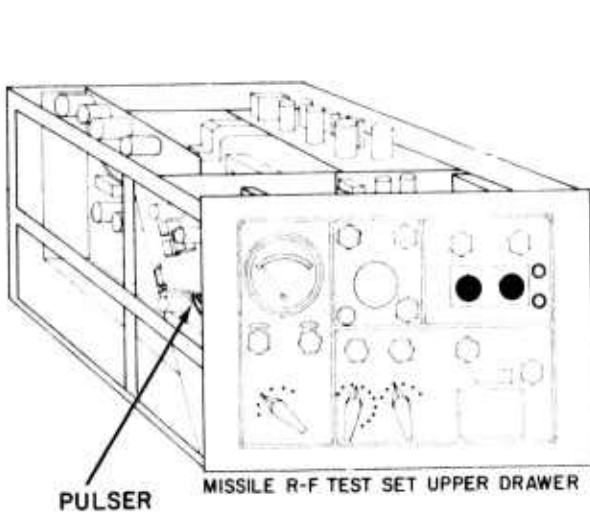
UNCLASSIFIED



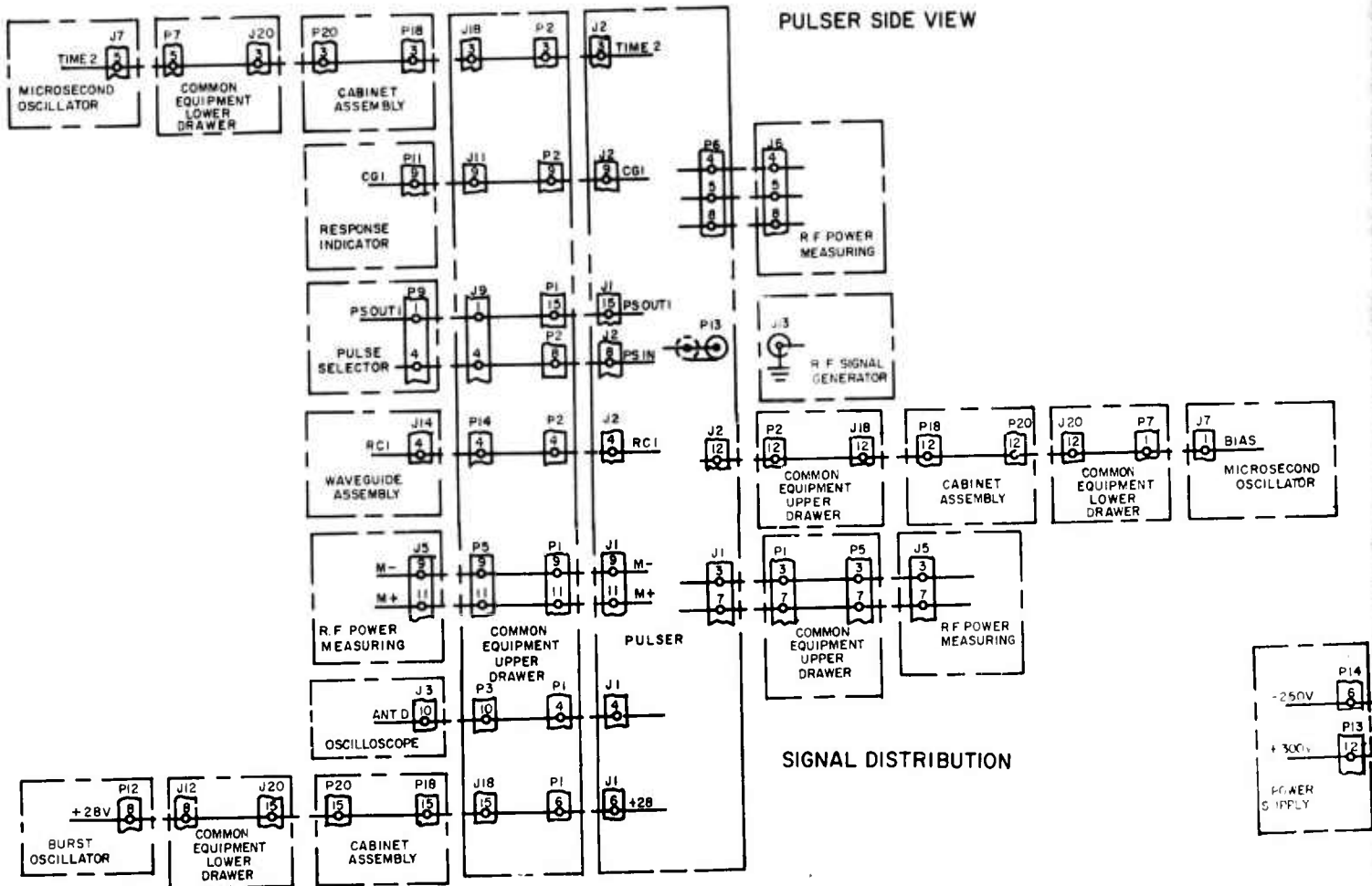
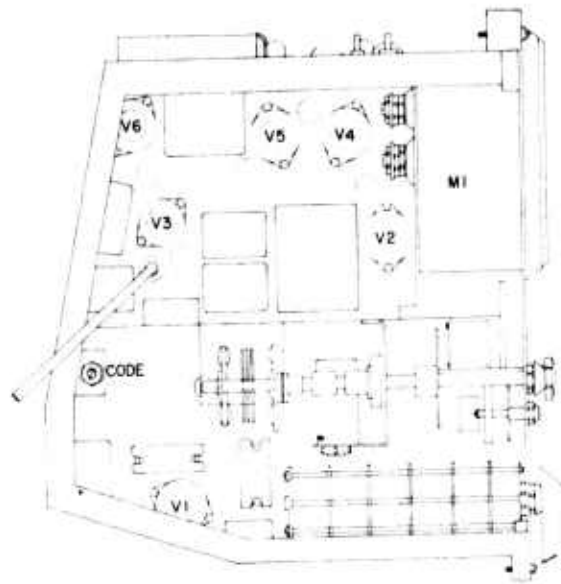
GS-15731 R-F TEST SET PULSE SELECTOR

UNCLASSIFIED

B



PULSER MISSILE R-F TEST SET UPPER DRAWER



PULSER SIDE VIEW

SIGNAL DISTRIBUTION

R-F TEST SET PULSER, NOTES (R-F TEST SIG)

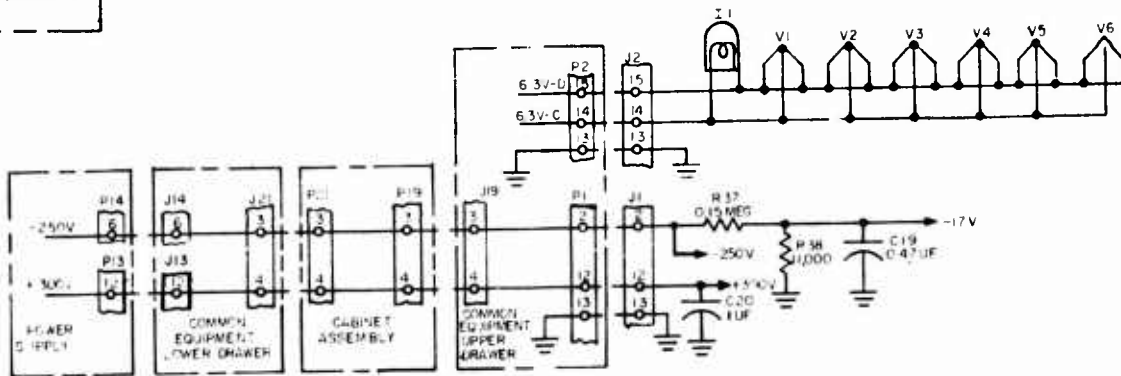
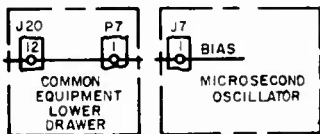
NOTES:

1. TERMINALS 5 AND 7 ON J2 AND TERMINALS 1,2,6,9,10,11,12,14 AND 15 ON P6 ARE NOT USED.

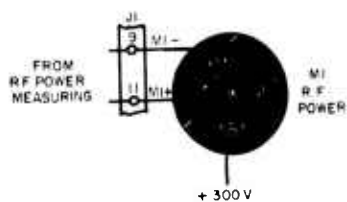
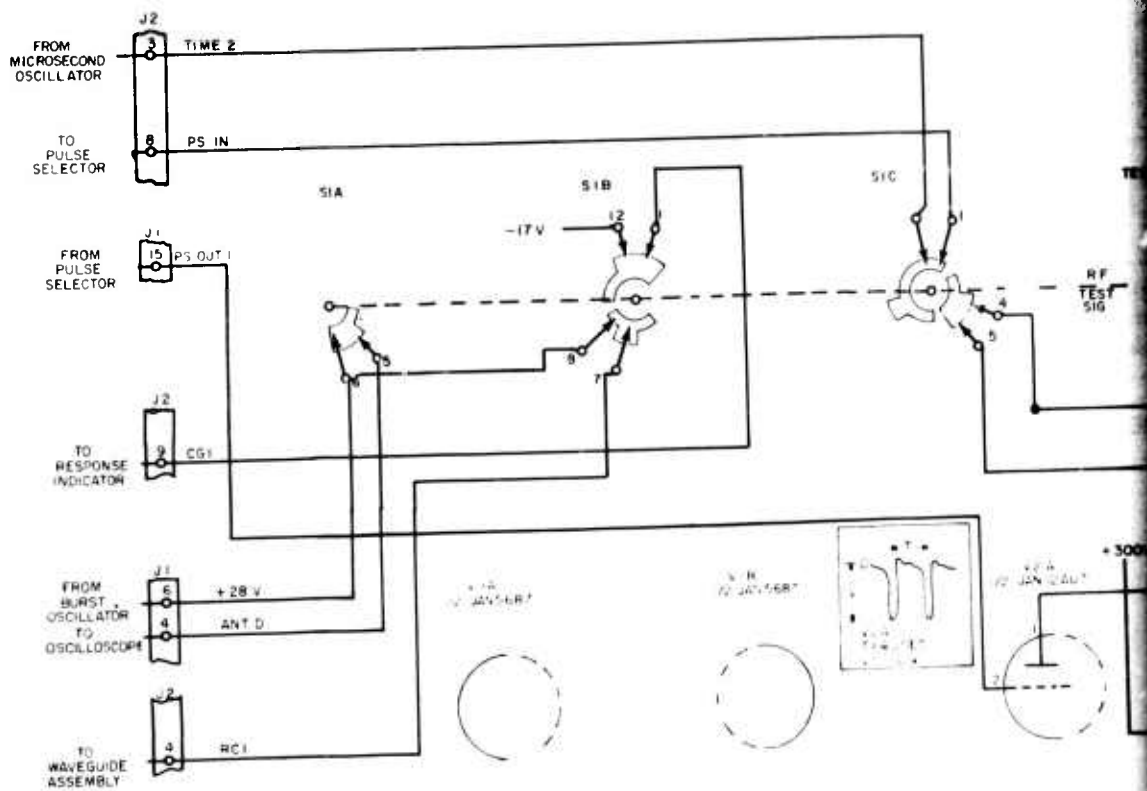
2. WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

SWITCH	POSITION
PWR METER CAL	MEAS
TIME	4.00
CODE RANGE	C
ADJ. CODE	APROX. MID POINT

SI SWITCH CONNECTION						
POSITION	SIA	SIB	SIC	SID	SIE	SIF
1 R-F TESTSIG	5-6	12-1, 7-8	12-1, 4-5	6-7	6-7	11-12, 6-7
2 REC SENS	6-7	1-2, 7-8-9	12-1, 4-5	12-1, 7-8	12-1, 7-8	11-12, 7-9
3 TRANS TEST	6-7	2-3, 8-9	12-1, 5-7	12-1-2, 7-8	12-1-2, 7-8	12-2, 7-9
4 RESP TIME A	12-1	3-4, 9-10	12-1, 7-8	12-1-2, 7-8	12-1-2, 7-8	2-3
5 RESP TIME B	12-1, 6-7	3-4	12-1, 7-8	1-2, 7-8	1-2, 7-8	2-3
6 COMM SIG	1-3, 6-7	3-6	1-2, 7-8	2-5, 7-8	2-5, 7-8	3-5



POWER DISTRIBUTION

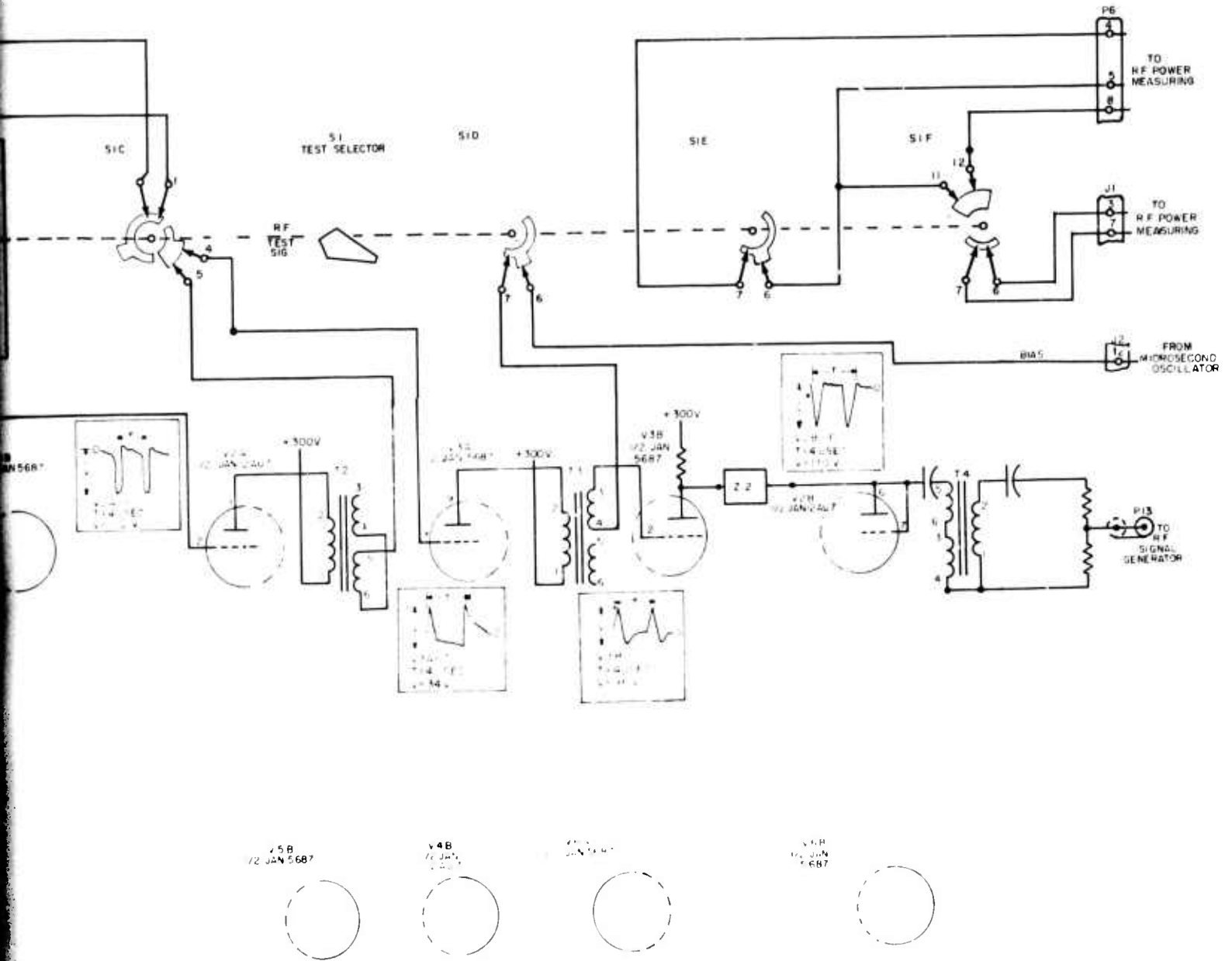


V 4A
1/2 JAN
2407

V 5A
1/2 JAN
5687

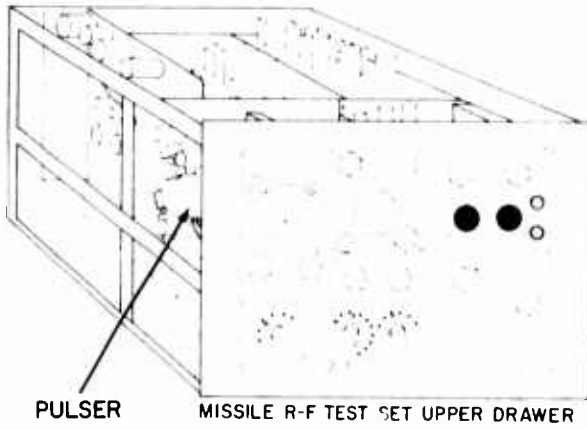
V 5B
1/2 JAN 5687

A

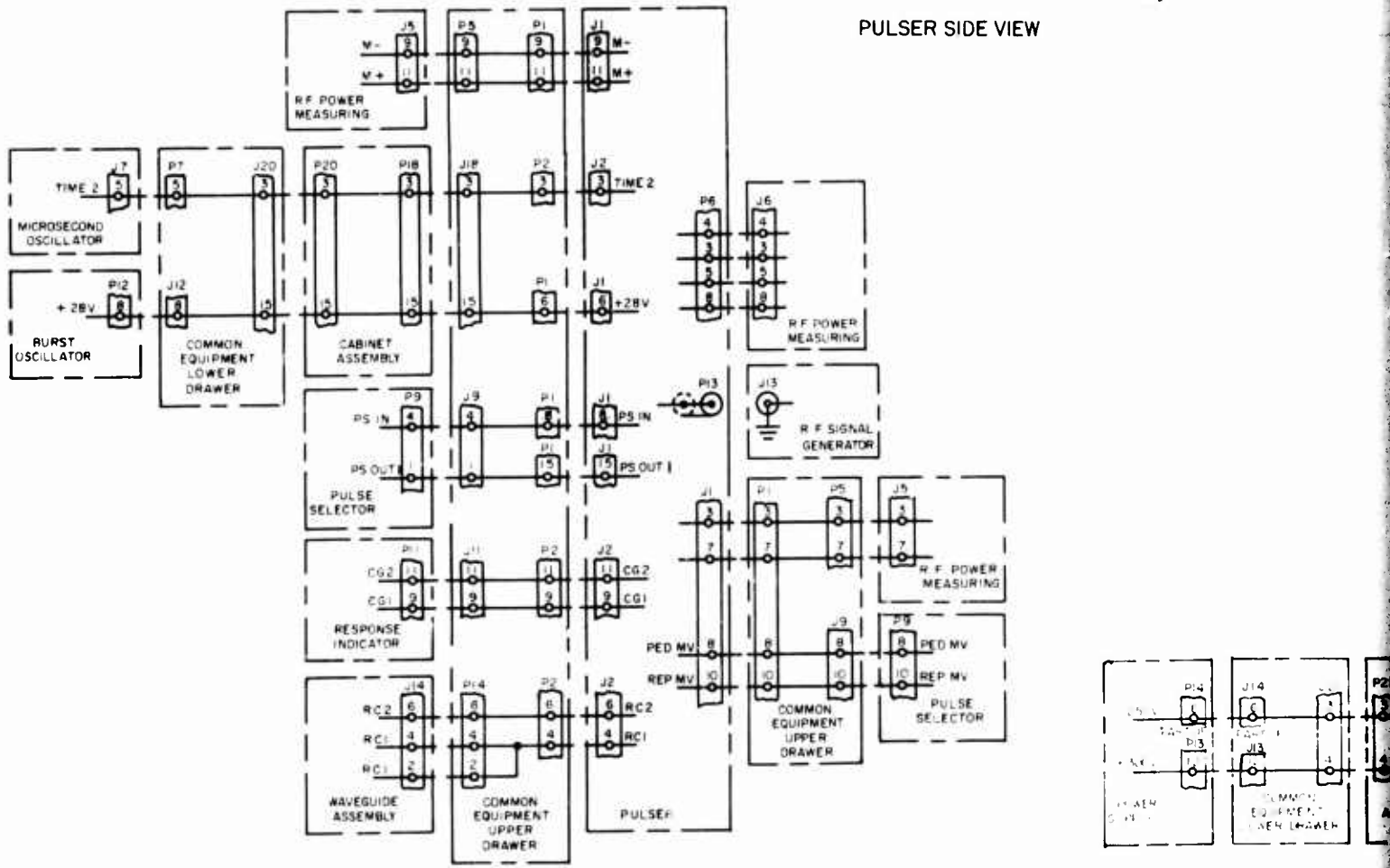


R-F TEST SET PULSER SIMPLIFIED SCHEMATIC
(R-F TEST SIG TSS-1)

UNCLASSIFIED



PULSER SIDE VIEW



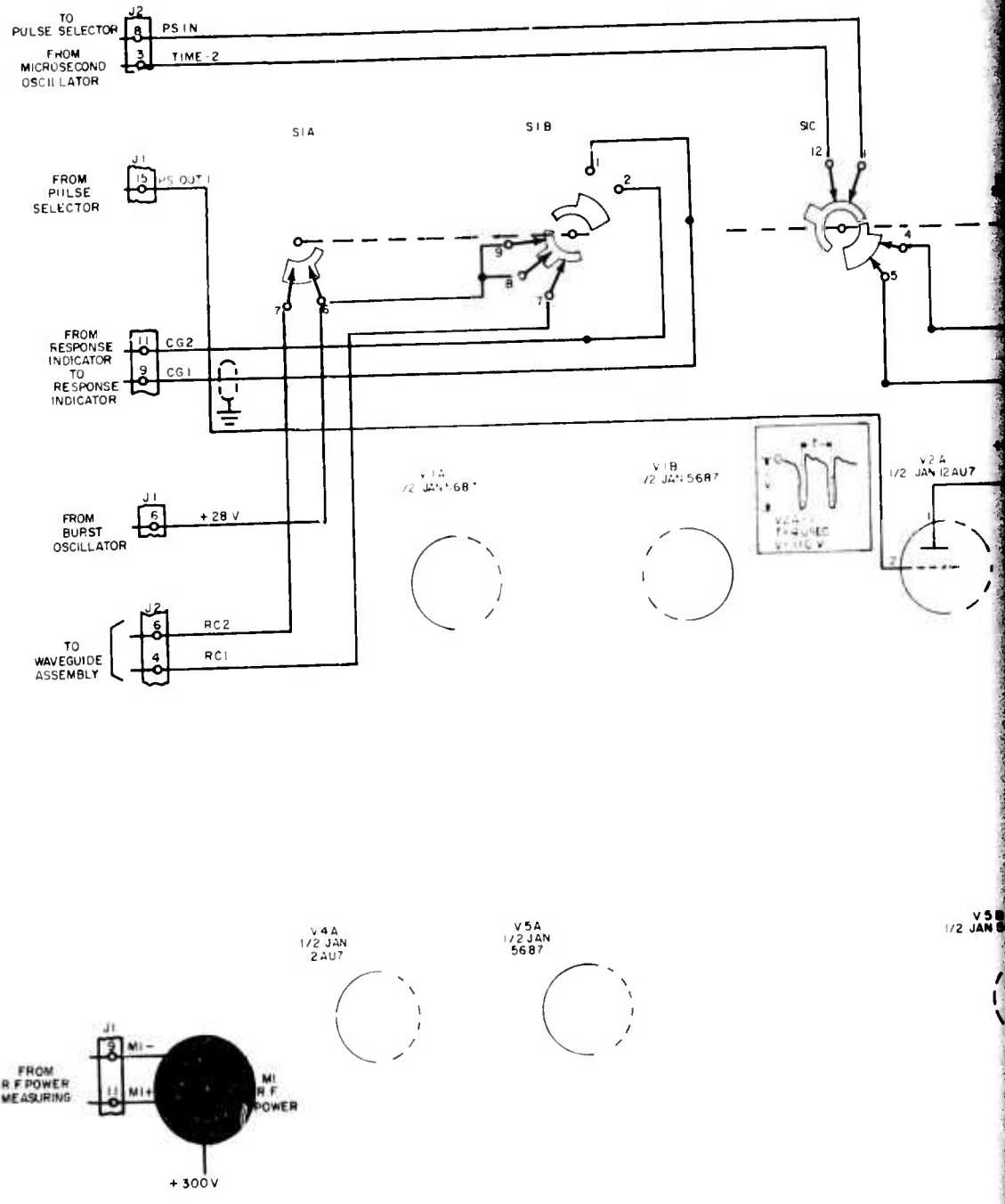
SIGNAL DISTRIBUTION

R-F TEST PULSER, NOTES (REC SENS)

11

~~CONFIDENTIAL~~

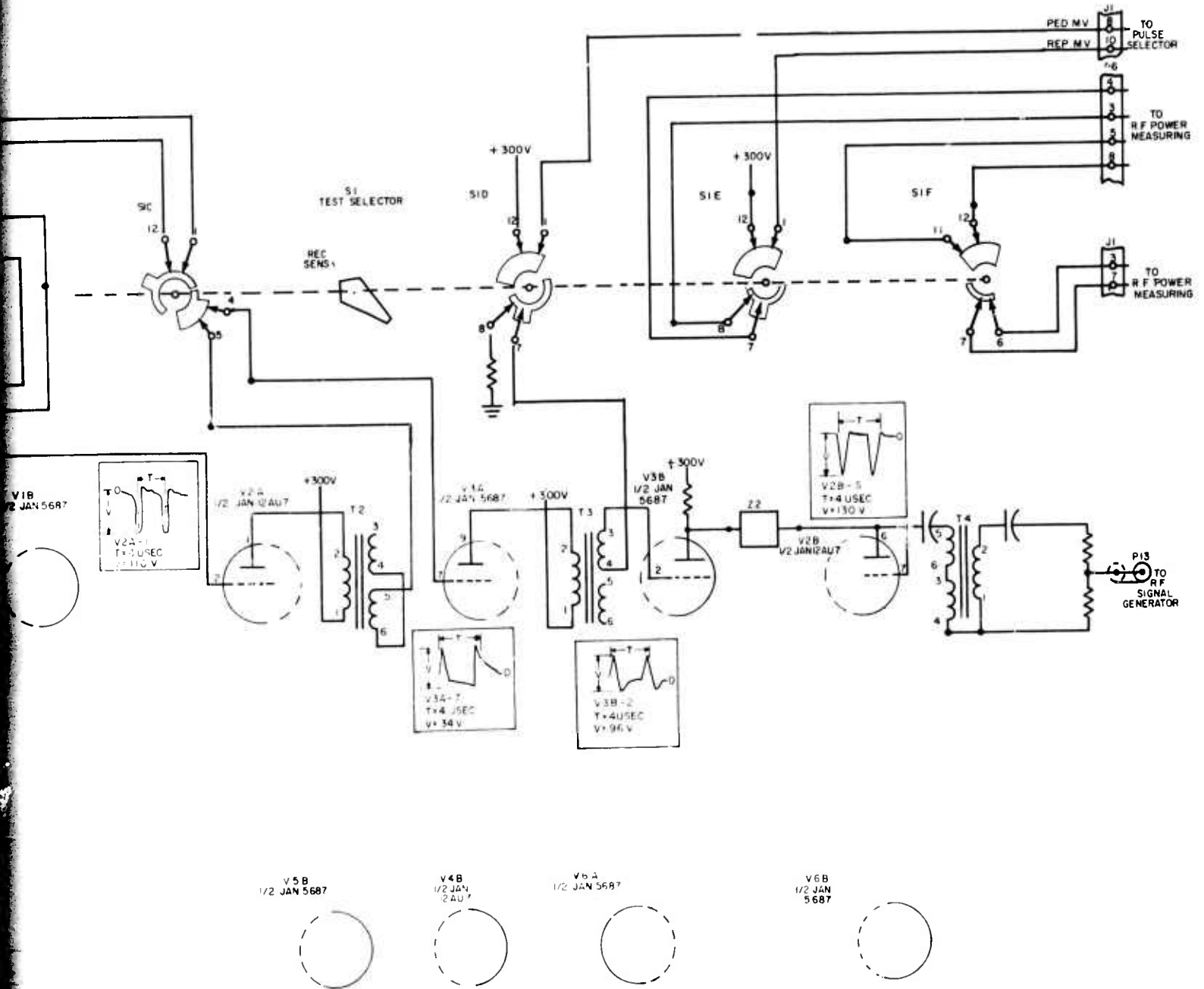
CLASSIFIED



UNCLASSIFIED

~~CONFIDENTIAL~~

A



R-F TEST SET PULSER SIMPLIFIED SCHEMATIC
(REC SENS TSS-2)

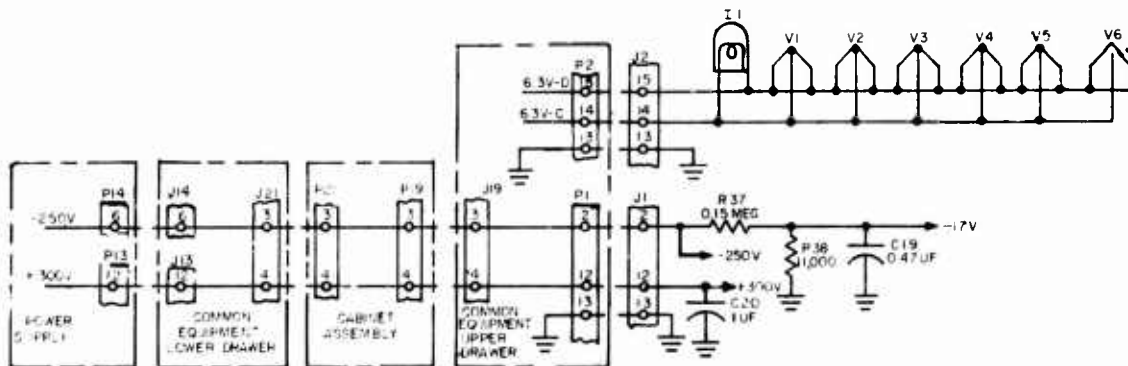
B

NOTES:

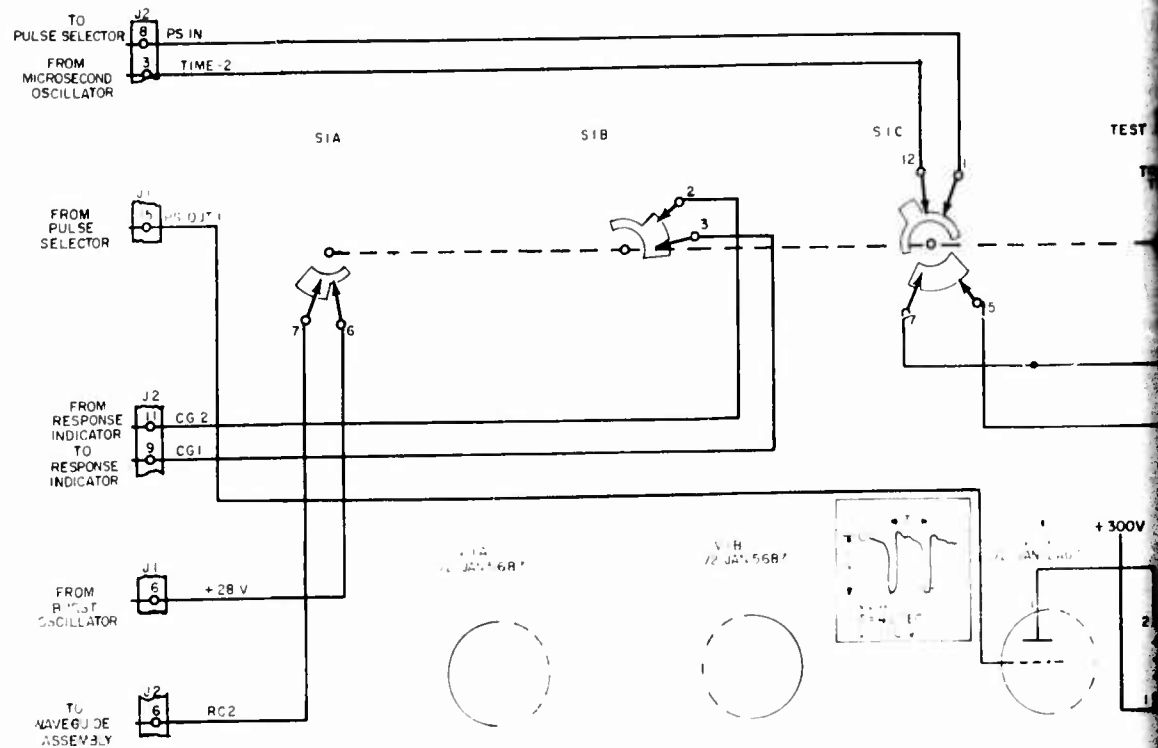
1. TERMINALS 5 AND 7 ON J2 AND TERMINALS 1,2,6,9,10,11,12,14 AND 15 ON P6 ARE NOT USED
2. WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS.

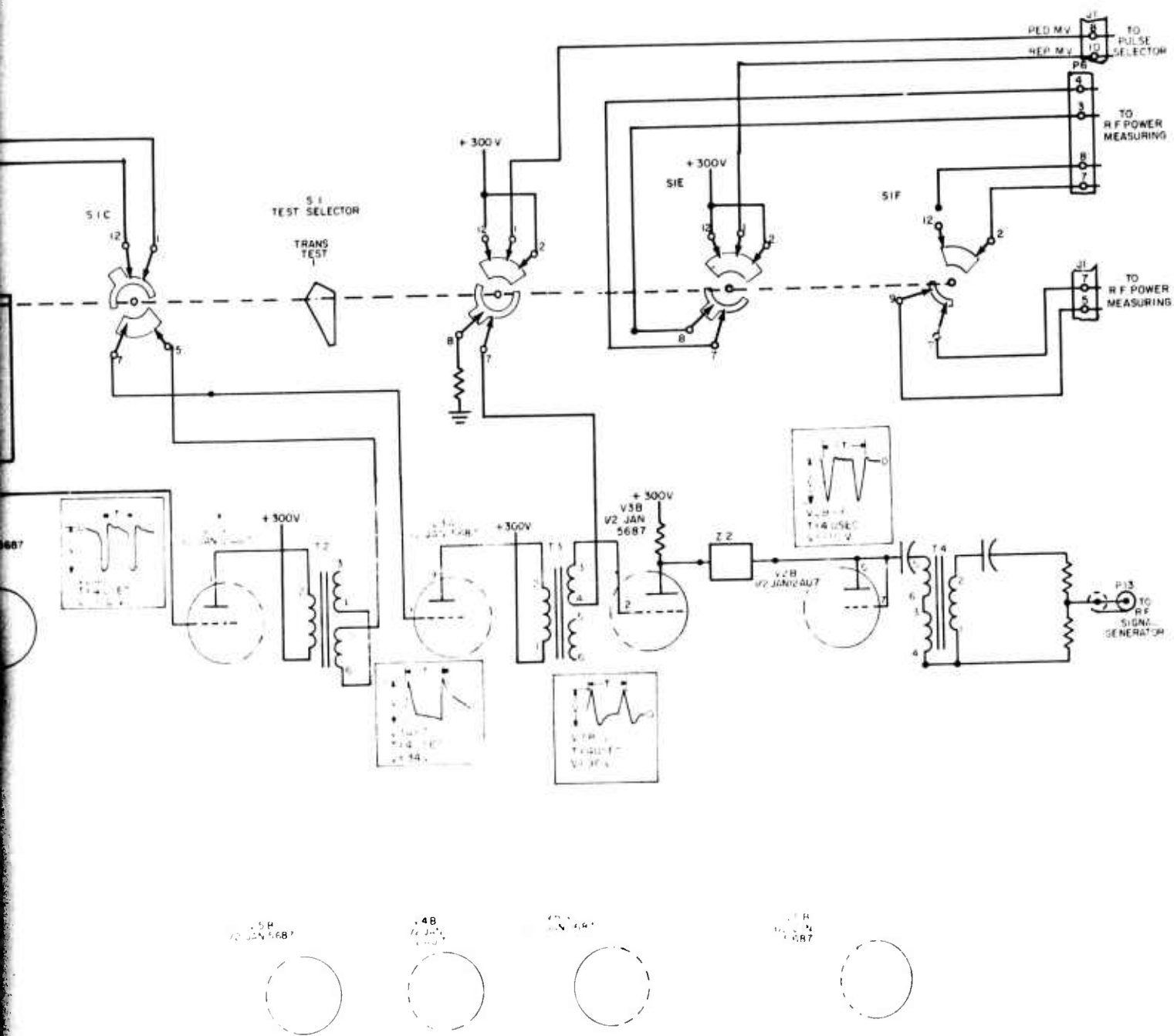
SWITCH	POSITION
PWR METER CAL	MEAS
TIME	4.00
CODE RANGE	C
ADJ. CODE	APROX. MID POINT

SI SWITCH CONNECTION						
POSITION	SIA	SIB	SIC	SID	SIE	SIF
1 R-F TESTSIG	5-6	12-1, 7-8	12-1, 4-5	6-7	6-7	11-12, 6-7
2 REC SENS	6-7	1-2, 7-8-9	12-1, 4-5	12-1, 7-8	12-1, 7-8	11-12, 7-9
3 TRANSTEST	6-7	2-3, 8-9	12-1, 5-7	12-1-2, 7-8	12-1-2, 7-8	12-2, 7-9
4 RESP TIME A	12-1	3-4, 9-10	12-1, 7-8	12-1-2, 7-8	12-1-2, 7-8	2-3
5 RESP TIME B	12-1, 6-7	3-4	12-1, 7-8	1-2, 7-8	1-2, 7-8	2-3
6 COMM SIG	1-3, 6-7	3-6	1-2, 7-8	2-5, 7-8	2-5, 7-8	3-5



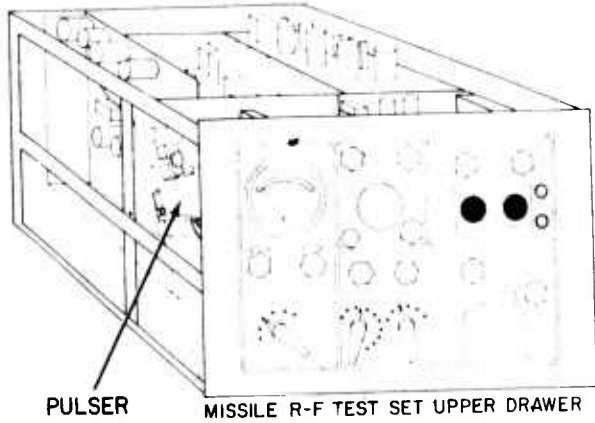
POWER DISTRIBUTION



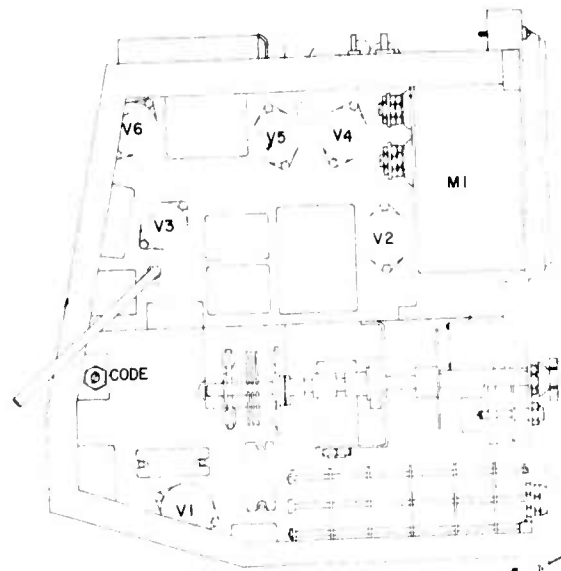


R-F TEST SET PULSER SIMPLIFIED SCHEMATIC
(TRANS TEST TSS-3)

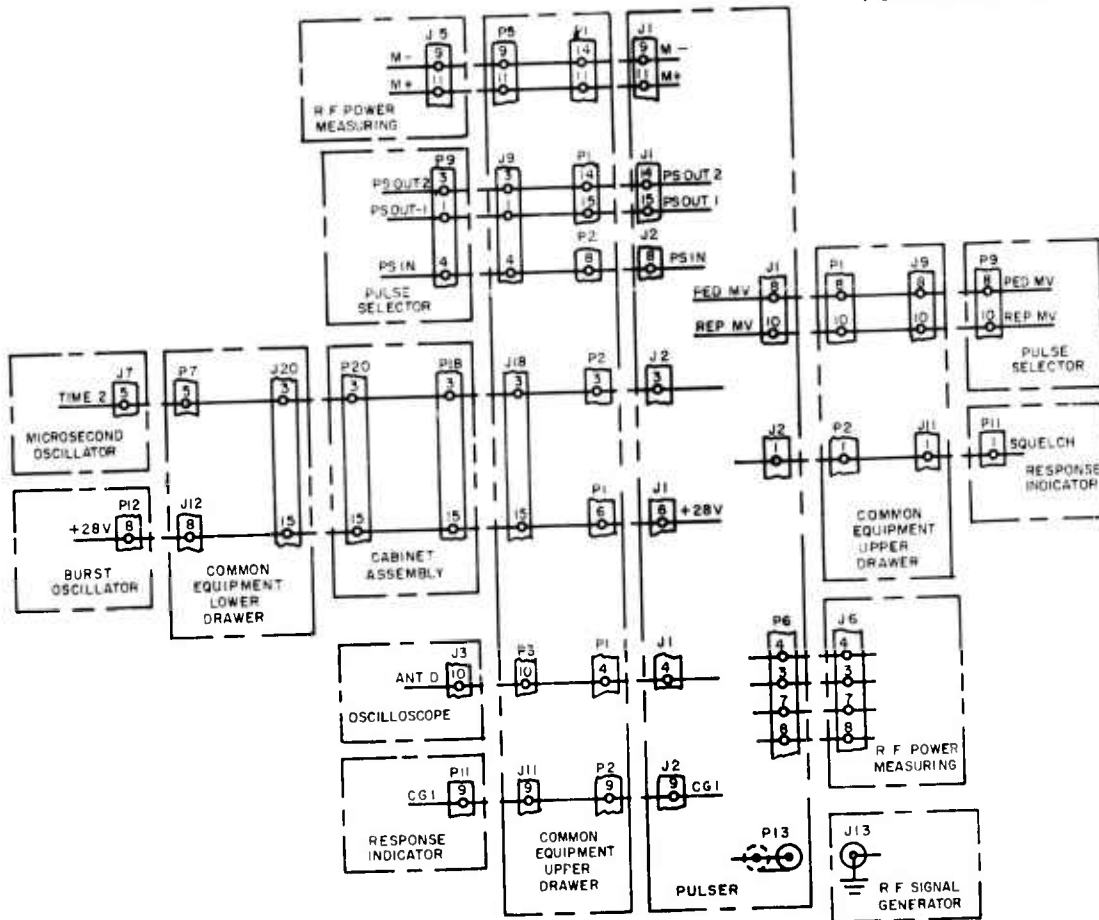
B



PULSER MISSILE R-F TEST SET UPPER DRAWER



PULSER SIDE VIEW

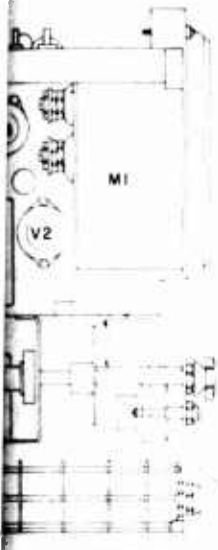


SIGNAL DISTRIBUTION

R-F TEST SET PULSER, NOTES (RESP TIME A)

A

UNCLASSIFIED

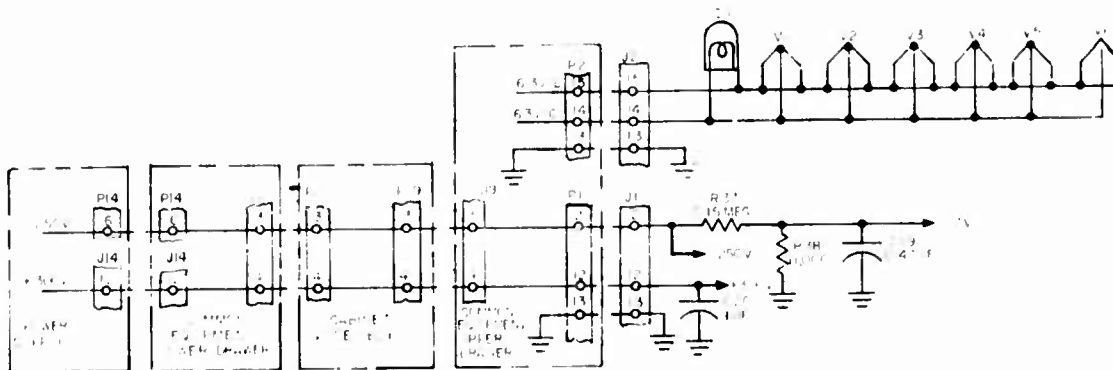


NOTES

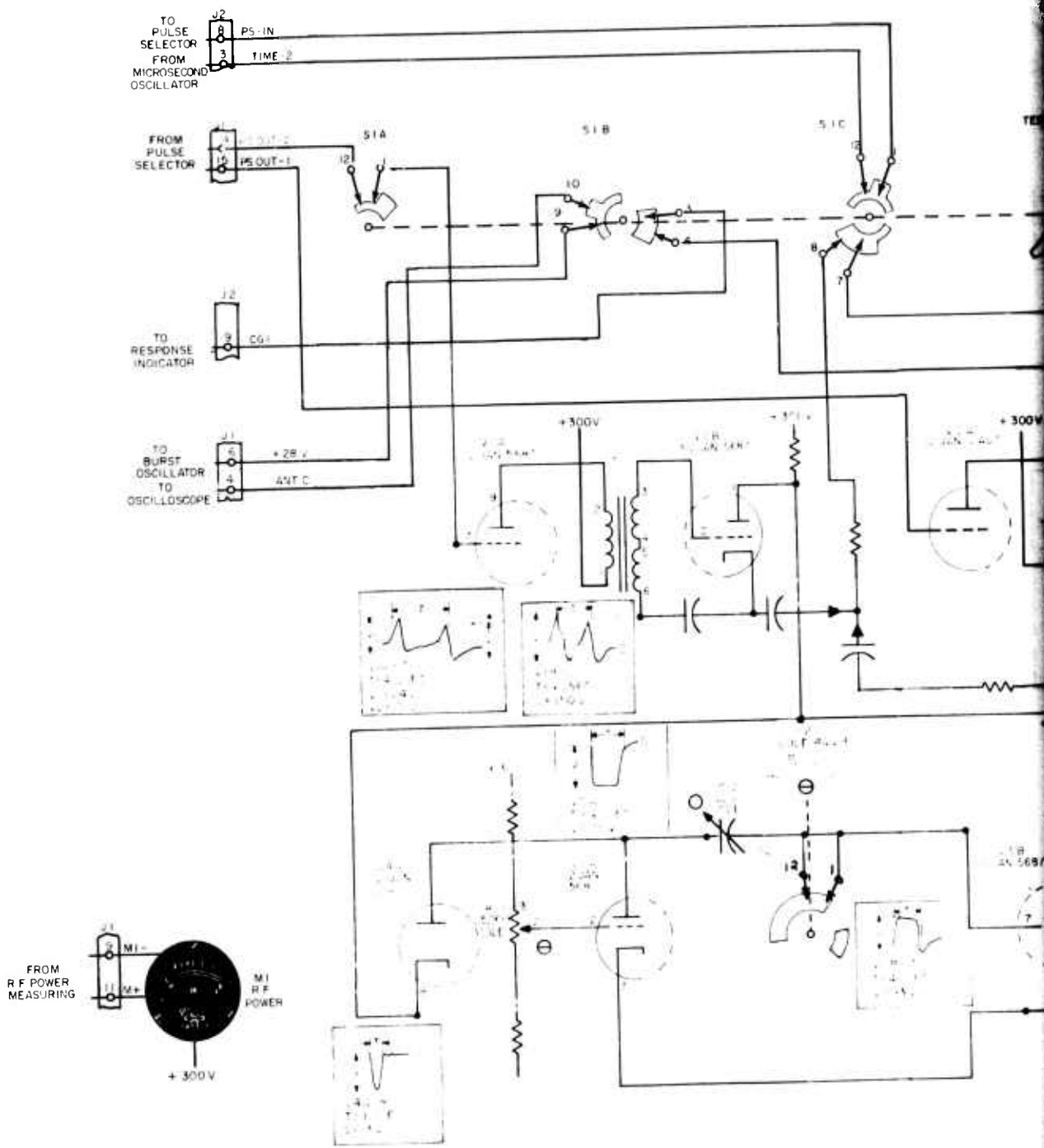
1 TERMINALS 5 AND 7 ON J2 AND TERMINALS 1,2,6,9,10,11,12,14 AND 15 ON P6 ARE NOT USED
 2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

SWITCH	POSITION
PWR METER CAL	MEAS
TIME	4.00
CODE RANGE	C
ADJ CODE	APPROX. MID POINT

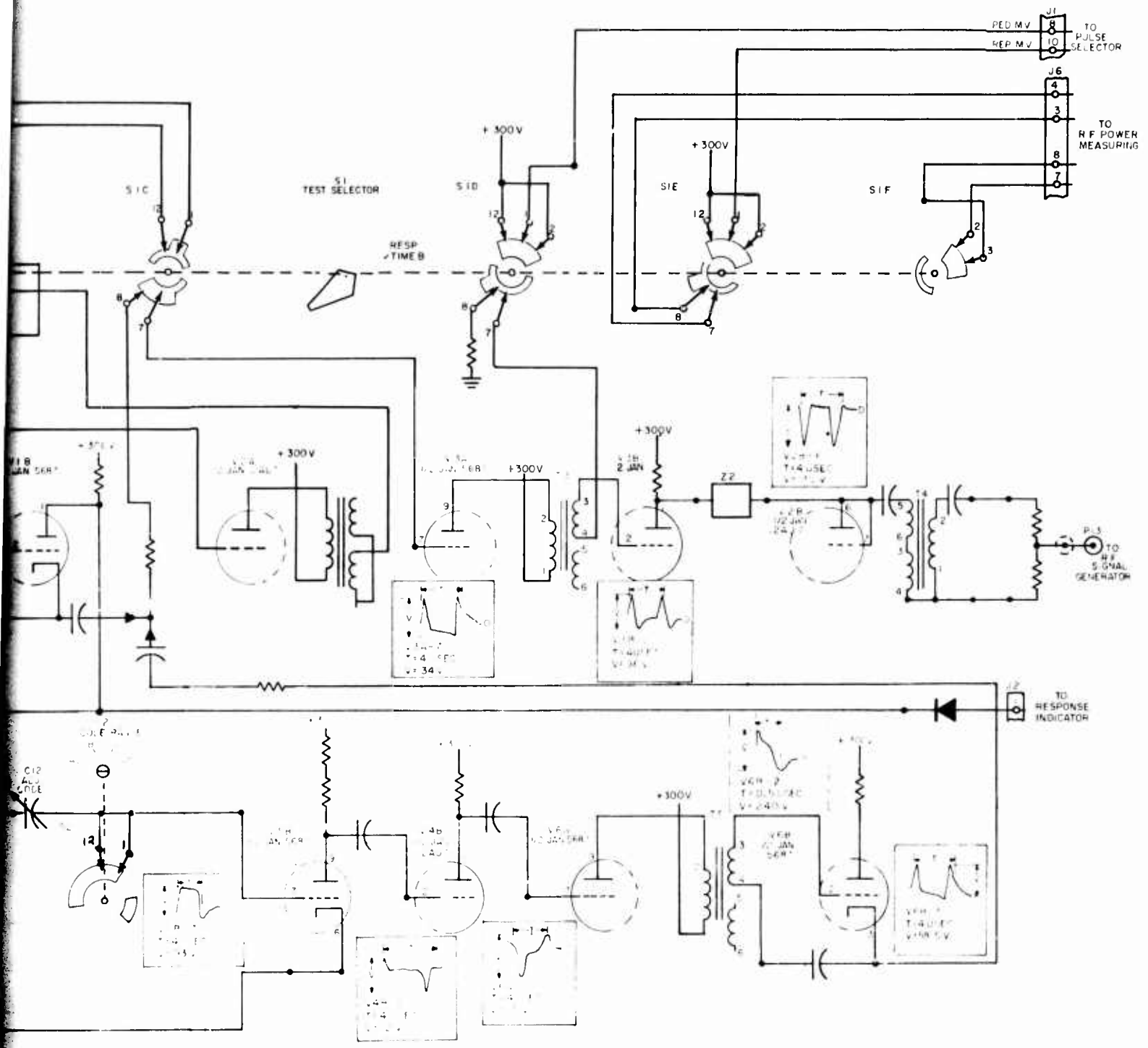
SI SWITCH CONNECTION						
POSITION	SIA	SIB	SIC	SID	SIE	SIF
1 R-F TEST	5-6	12-1, 7-8	12-1, 4-5	6-7	6-7	11-12, 6-7
2 REC SENS	6-7	1-2, 7-8-9	12-1, 4-5	12-1, 7-8	12-1, 7-8	11-12, 7-9
3 TRANS TEST	6-7	2-3, 8-9	12-1, 5-7	12-1, 2, 7-8	12-1, 2, 7-8	12-2, 7-9
4 RESP TIME A	12-1	3-4, 9-10	12-1, 7-8	12-1, 2, 7-8	12-1, 2, 7-8	2-3
5 RESP TIME B	12-1, 6-7	3-4	12-1, 7-8	1-2, 7-8	1-2, 7-8	2-3
6 COMM SIG	1-3, 6-7	3-6	1-2, 7-8	2-5, 7-8	2-5, 7-8	3-5



POWER DISTRIBUTION

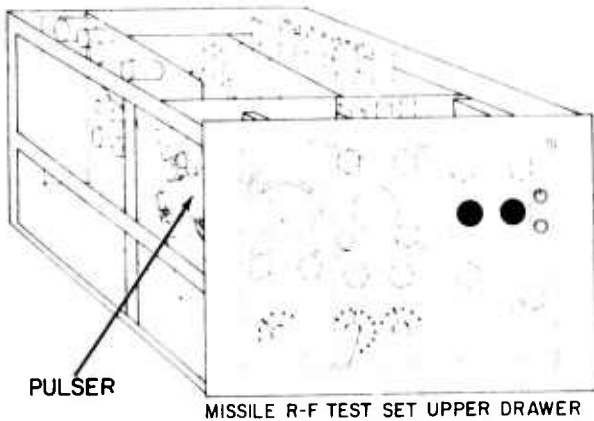


A

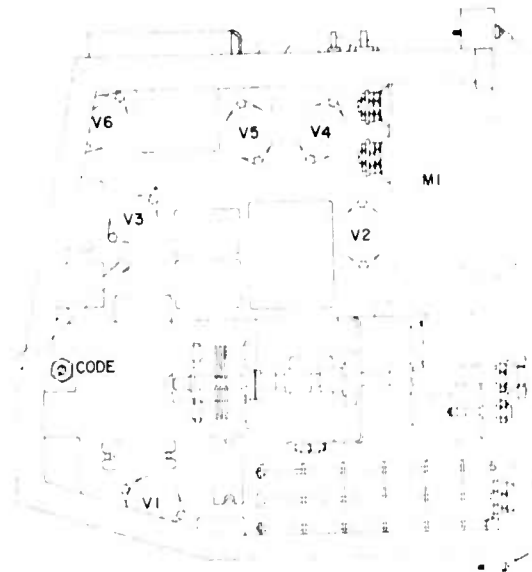


R-F TEST SET PULSER SIMPLIFIED SCHEMATIC
(RESP TIME ATSS-4)

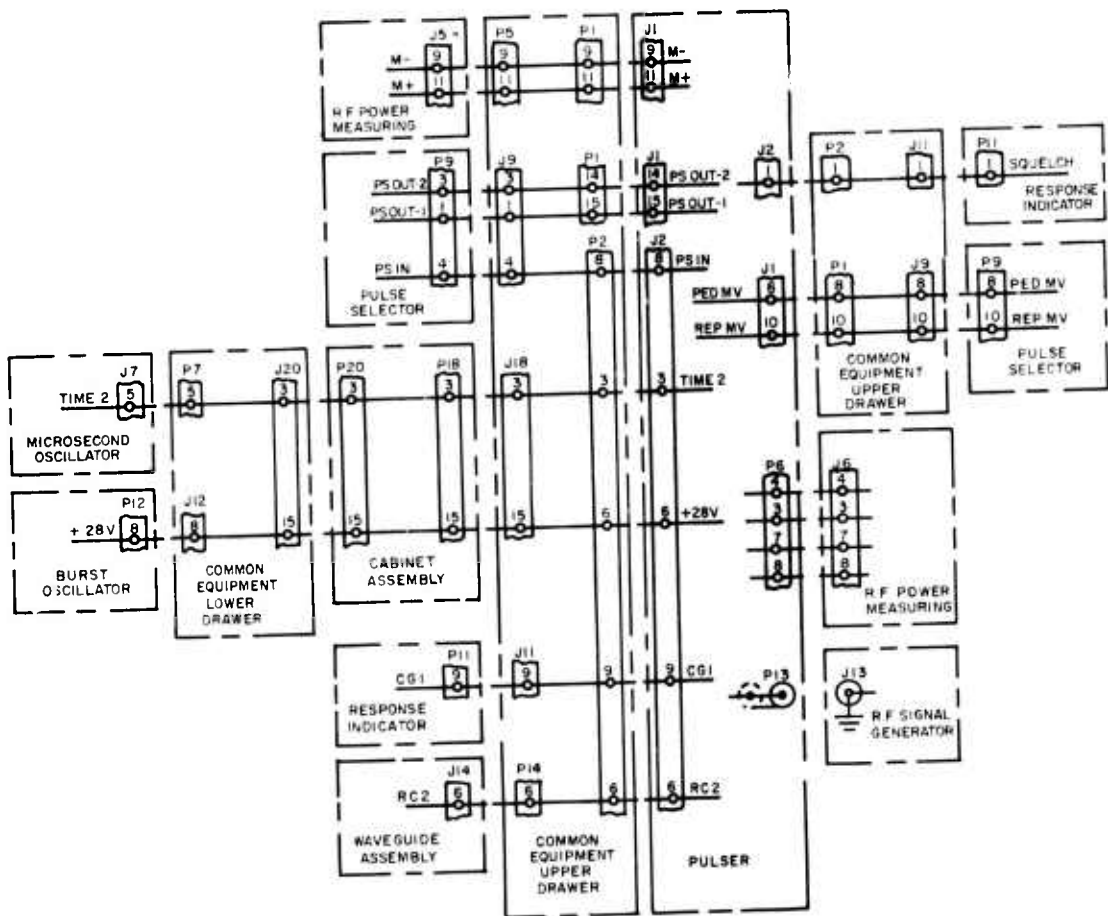
~~CONFIDENTIAL~~
UNCLASSIFIED



MISSILE R-F TEST SET UPPER DRAWER



PULSER SIDE VIEW



SIGNAL DISTRIBUTION

R-F TEST SET PULSER, NOTES (RESP TIME B)

A

~~CONFIDENTIAL~~

-250
+300
POWER
SUPPLY

NOTES

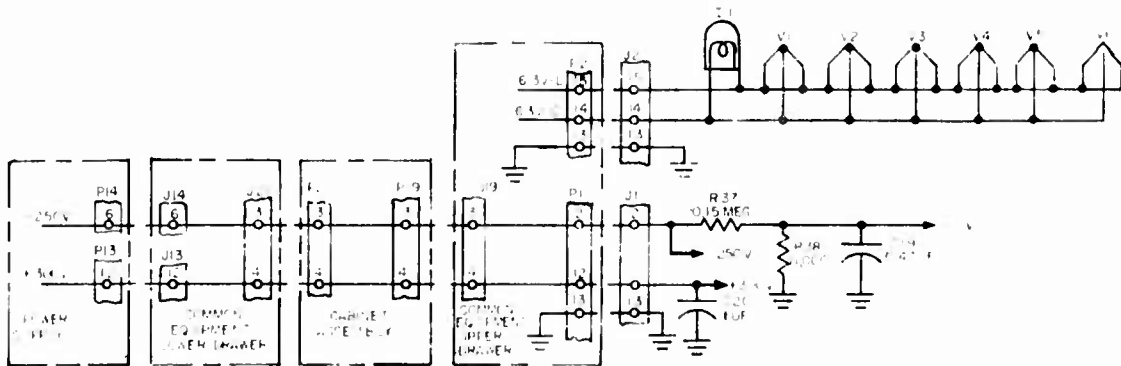
1 TERMINALS 5 AND 7 ON J2 AND TERMINALS 1,2,6,9,10,11,12,14 AND 15 ON P6 ARE NOT USED

2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

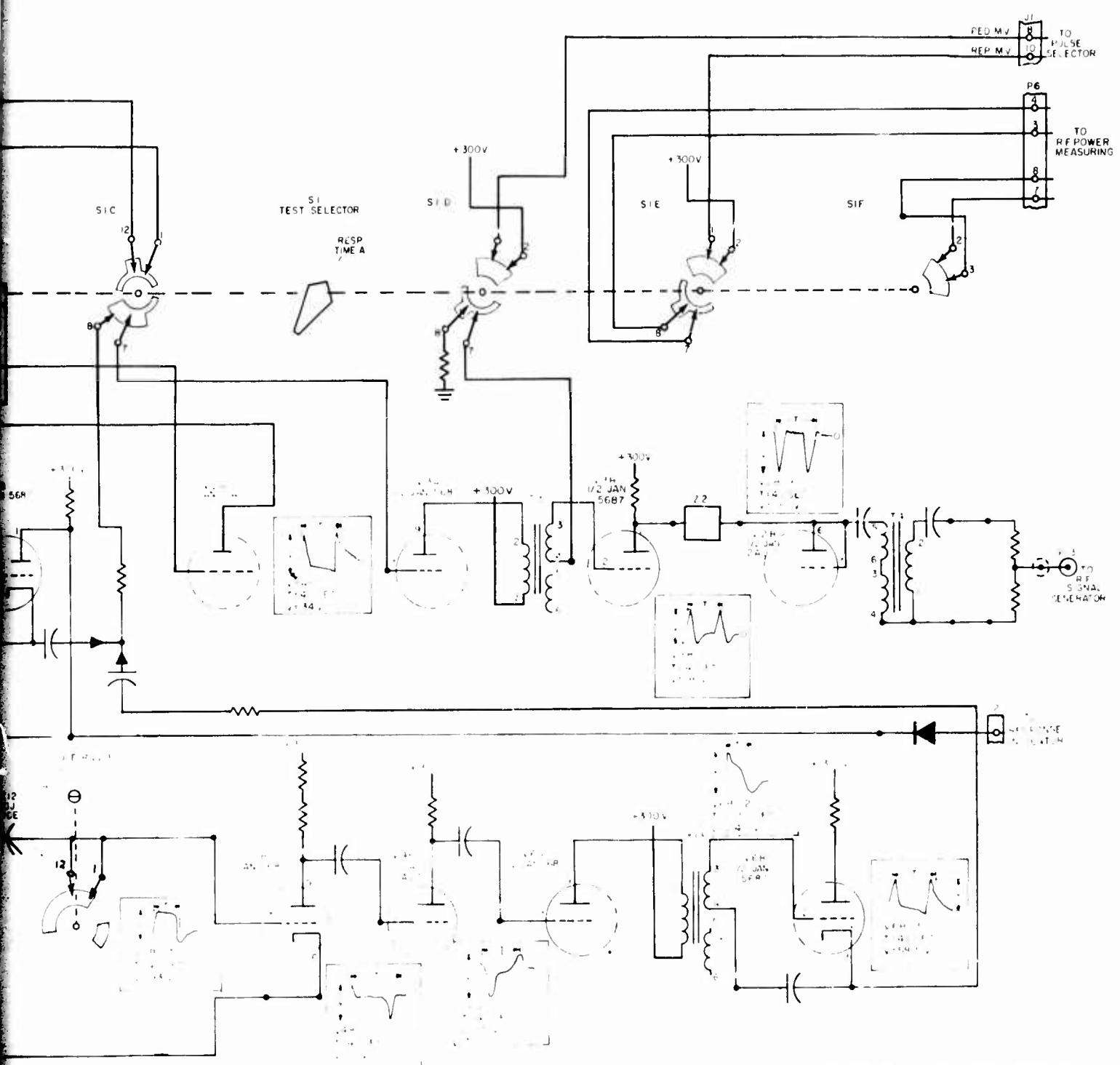
SWITCH	POSITION
PWR METER CAL	MEAS
TIME	4 00
CODE RANGE	C
ADJ CODE	APROX MID POINT

SI SWITCH CONNECTION

POSITION	SIA	SIB	SIC	SID	SIE	SIF
1 R-F TESTSIG	5-6	12-1, 7-8	12-1, 4-5	6-7	6-7	11-12, 6-7
2 REC SENS	6-7	1-2, 7-8-9	12-1, 4-5	12-1, 7-8	12-1, 7-8	11-12, 7-9
3 TRANS TEST	6-7	2-3, 8-9	12-1, 5-7	12-1-2, 7-8	12-1-2, 7-8	12-2, 7-9
4 RESP TIME A	12-1	3-4, 9-10	12-1, 7-8	12-1-2, 7-8	12-1-2, 7-8	2-3
5 RESP TIME B	12-1, 6-7	3-4	12-1, 7-8	1-2, 7-8	1-2, 7-8	2-3
6 COMM SIG	1-3, 6-7	3-6	1-2, 7-8	2-5, 7-8	2-5, 7-8	3-5

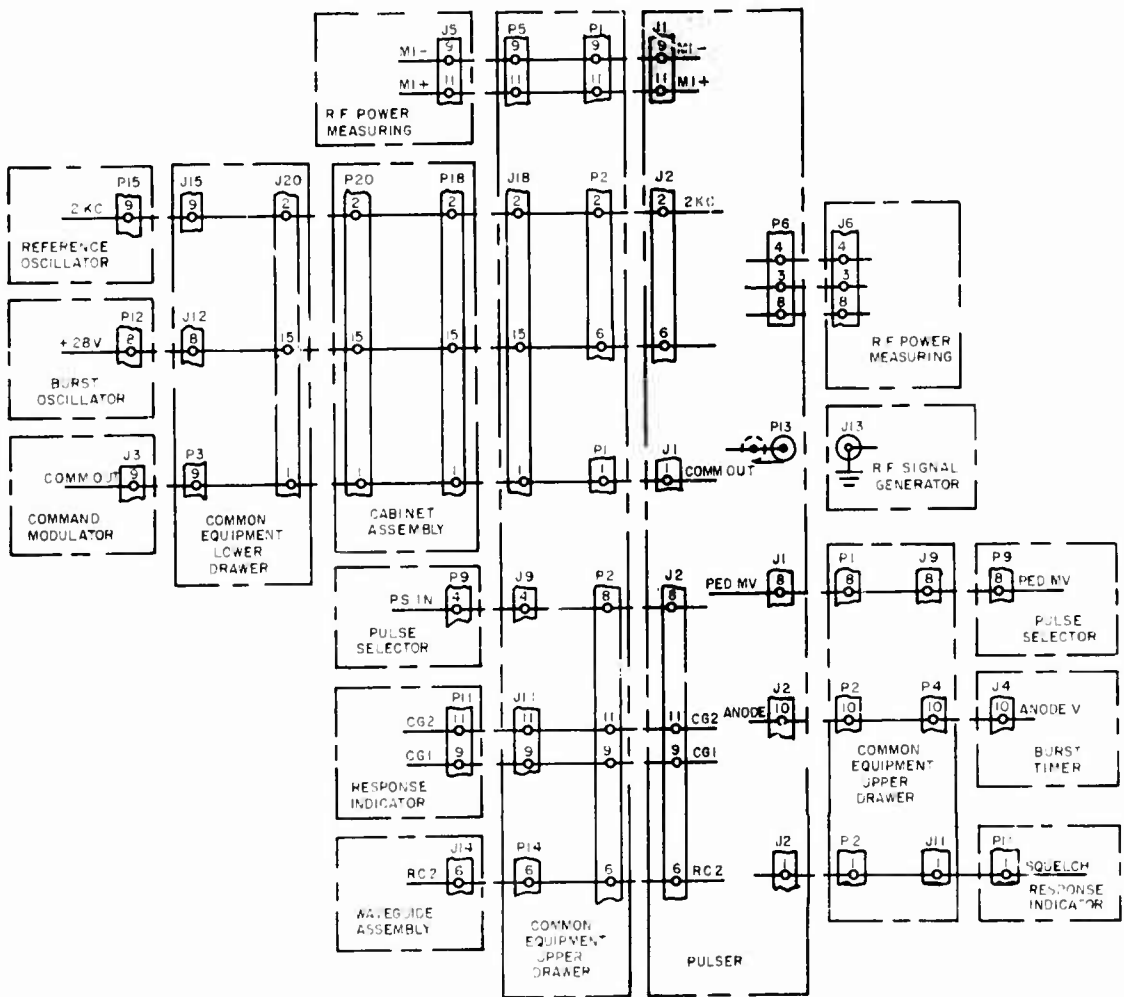
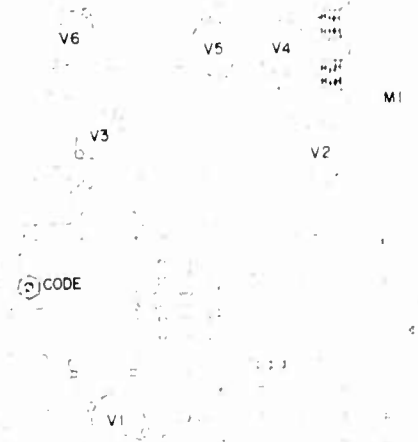
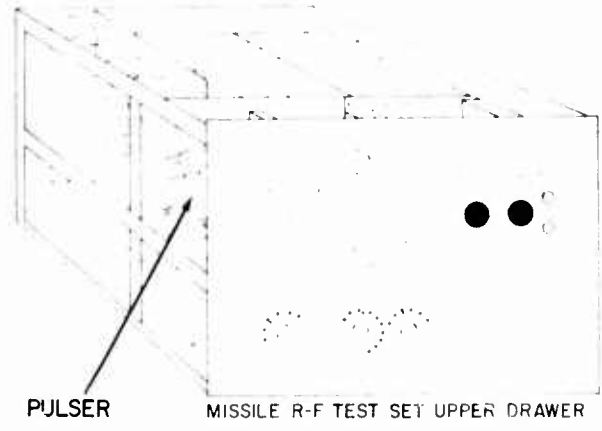


POWER DISTRIBUTION



R-F TEST SET PULSER SIMPLIFIED SCHEMATIC
(RESP TIME B TSS-5)

UNCLASSIFIED



PULSER SIDE VIEW

SIGNAL DISTRIBUTION

R-F TEST SET PULSER, NOTES (COMM SIG)

A

UNCLASSIFIED

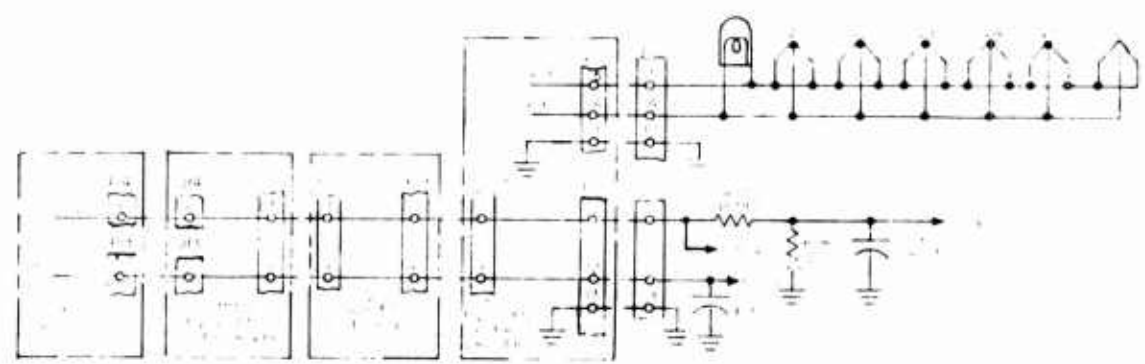
NOTES

- 1 TERMINALS 5 AND 7 ON J2 AND TERMINALS 1,2,6,9,10,11,12,14 AND 15 ON P6 ARE NOT USED
- 2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

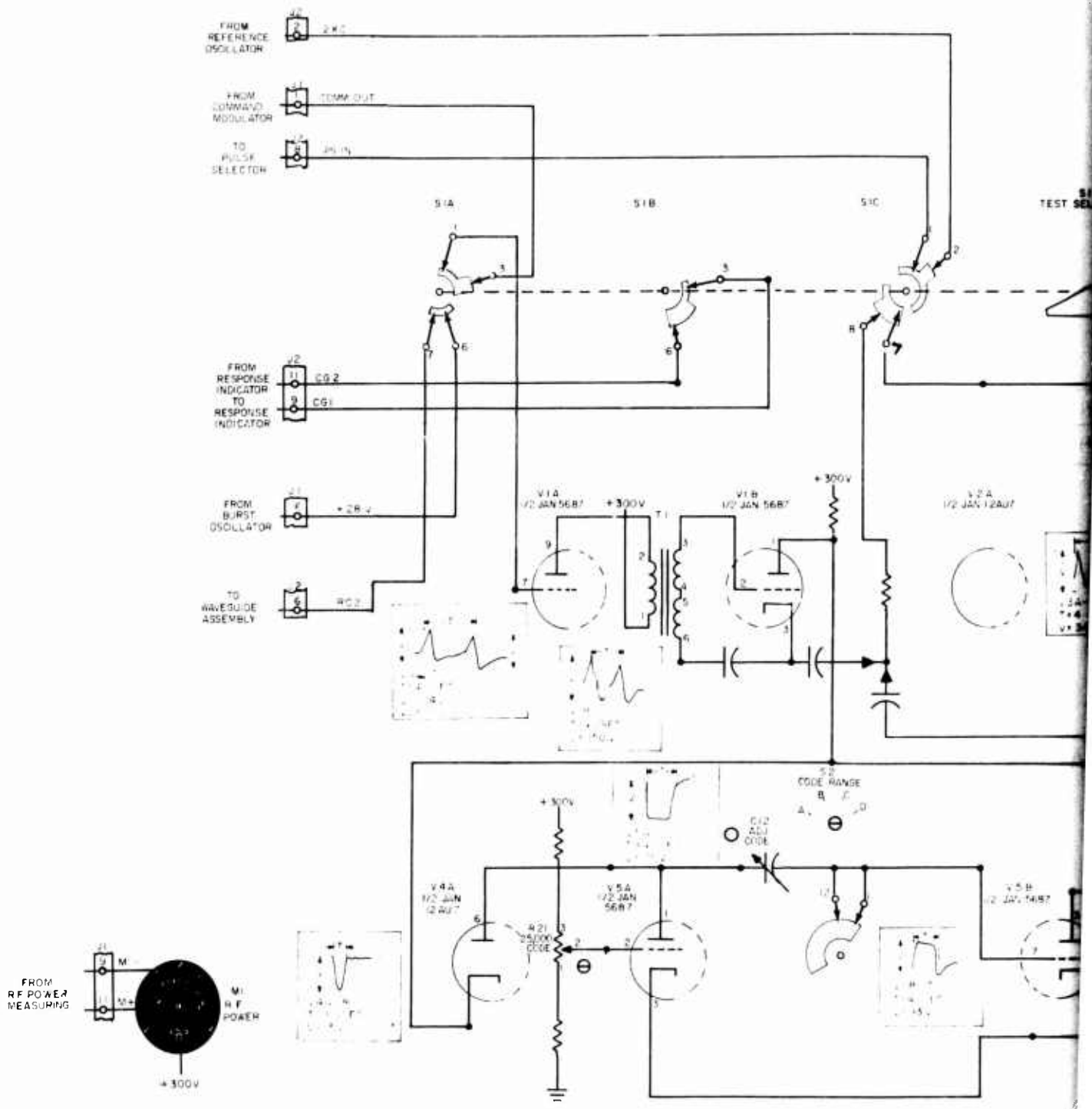
SWITCH	POSITION
PWR METER CAL	MEAS
COMMAND CAL	MEAS
TIME	4 00
CODE RANGE	C
ADJ CODE	APROX MID POINT

POSITION	SI SWITCH CONNECTION					
	SIA	SIB	SIC	SID	SIE	SIF
1 R-F TEST SIG	5-6	12-1, 7-8	12-1, 4-5	6-7	6-7	11-12, 6-7
2 REC SENS	6-7	1-2, 7-8-9	12-1, 4-5	12-1, 7-8	12-1, 7-8	11-12, 7-9
3 TRANS TEST	6-7	2-3, 8-9	12-1, 5-7	12-1-2, 7-8	12-1-2, 7-8	12-2, 7-9
4 RESP TIME A	12-1	3-4, 9-10	12-1, 7-8	12-1-2, 7-9	12-1-2, 7-8	2-3
5 RESP TIME B	12-1, 6-7	3-4	12-1, 7-8	1-2, 7-8	1-2, 7-8	2-3
6 COMM SIG	1-3, 6-7	3-6	1-2, 7-8	2-5, 7-8	2-5, 7-8	3-5

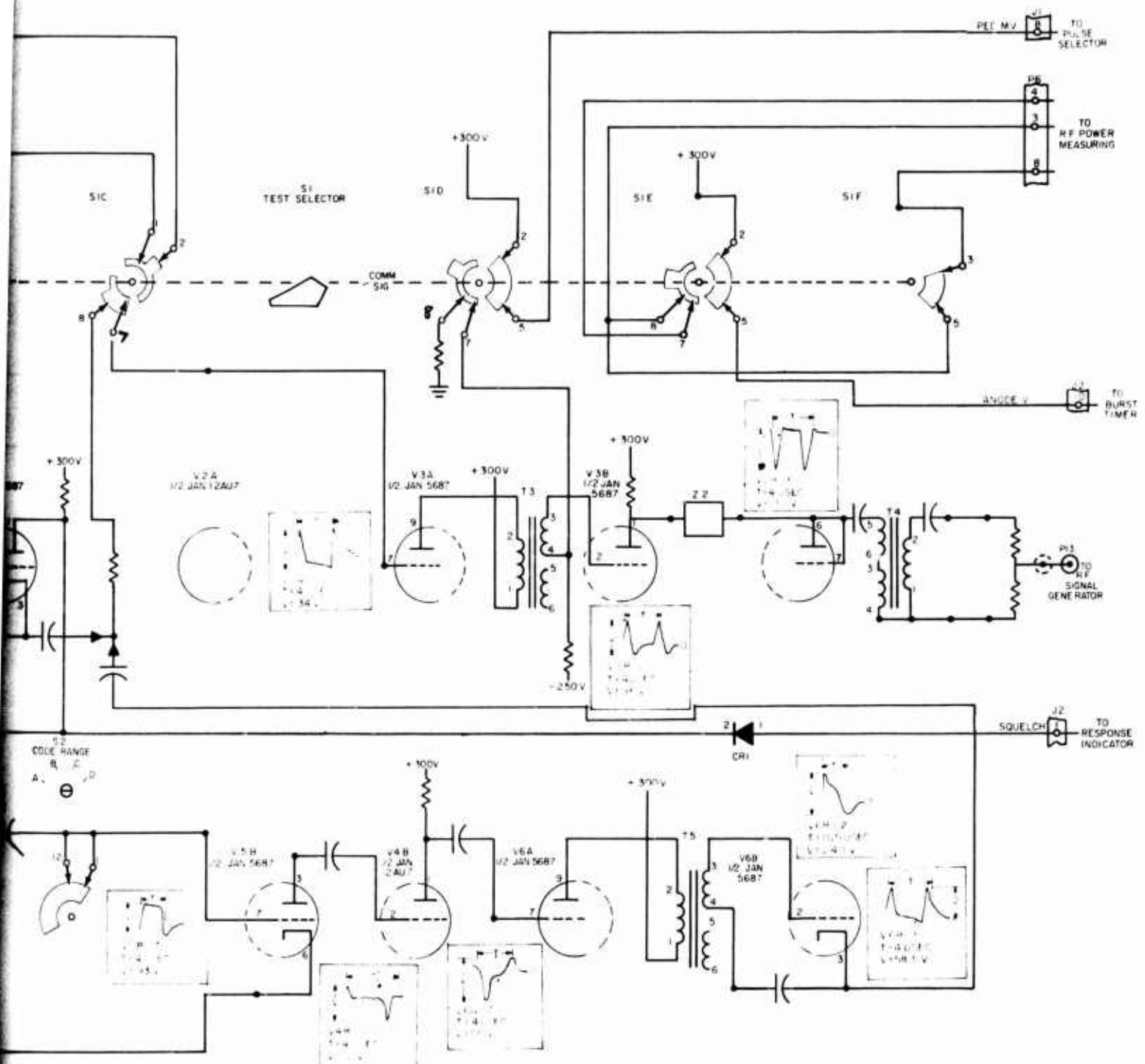
PULSER SIDE VIEW



POWER DISTRIBUTION



A



R-F TEST SET PULSER SIMPLIFIED SCHEMATIC
(COMM SIG TSS-6)

~~CONFIDENTIAL~~

UNCLASSIFIED

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			PI
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	
THIS DATA NOT AVAILABLE													

R-F TEST SET PULSER, NOTES

~~CONFIDENTIAL~~

A

NOTES:

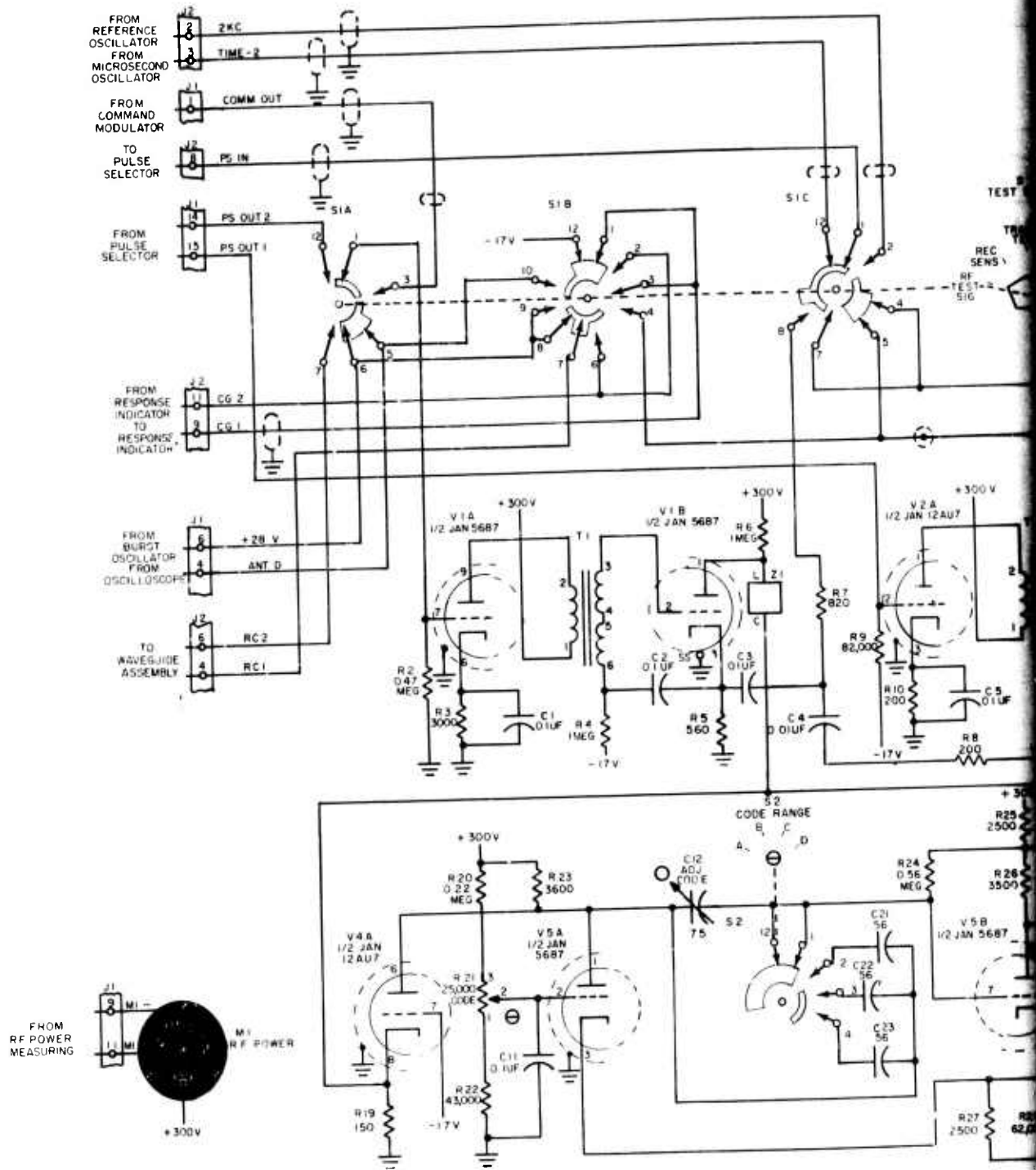
1. TERMINALS 5 AND 7 ON J2 AND TERMINALS 1,2,6,9,10,11,12,14 AND 15 ON P6 ARE NOT USED.

S	SCREEN			CONTROL			CATHODE			FILAMENT		
	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS

DATA NOT AVAILABLE

B

~~CONFIDENTIAL~~
UNCLASSIFIED

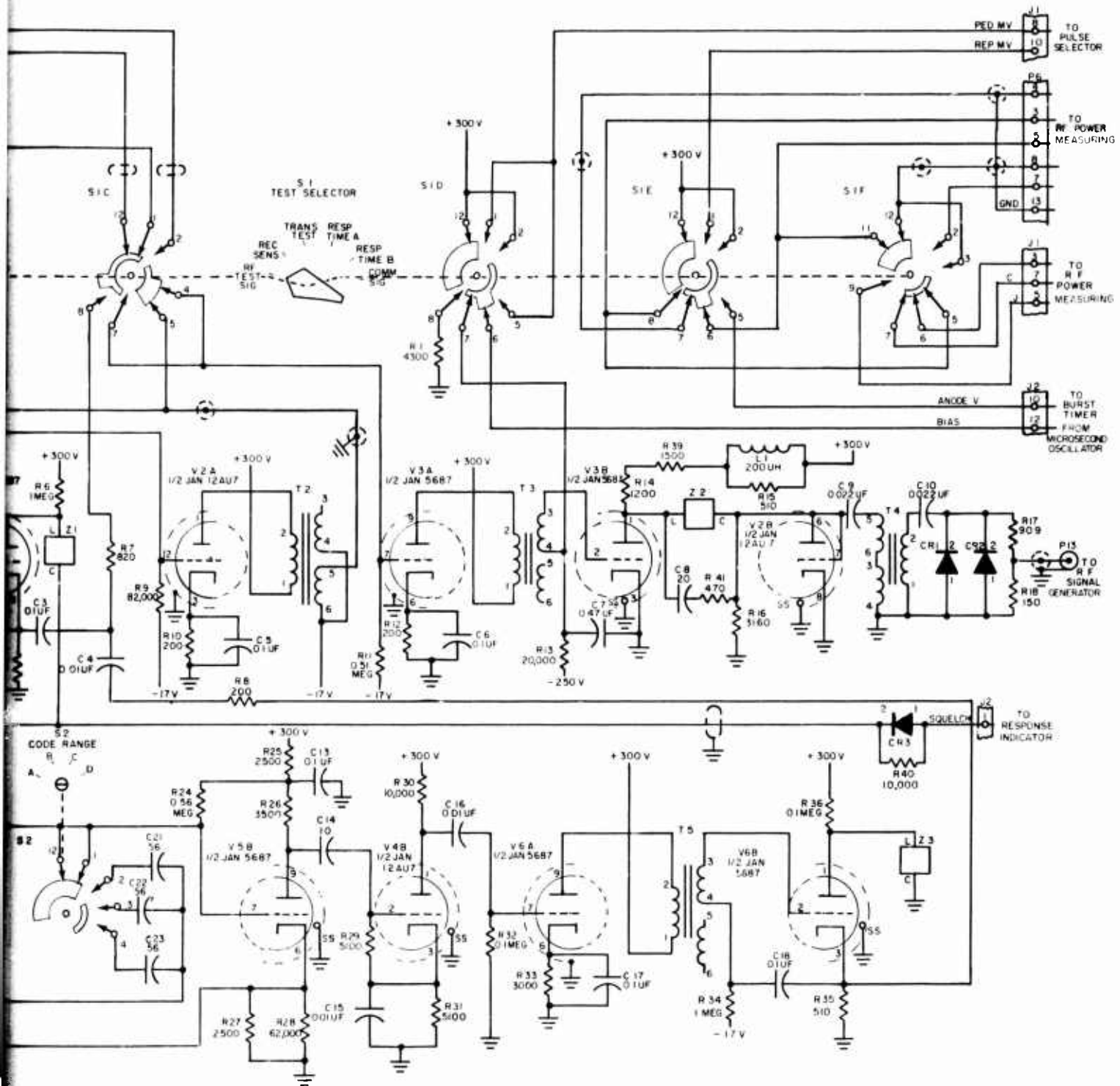


A

UNCLASSIFIED

~~CONFIDENTIAL~~

CLASSIFIED

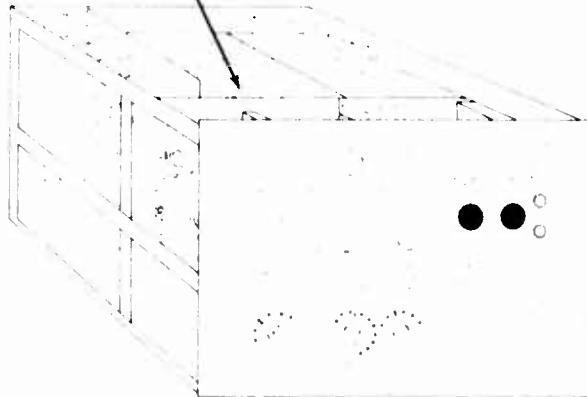


GS-15727 R-F TEST SET PULSER

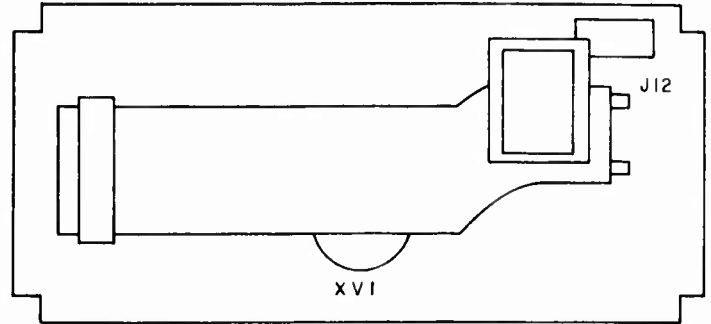
CLASSIFIED

268

R-F SIGNAL GENERATOR



MISSILE R-F TEST SET UPPER DRAWER



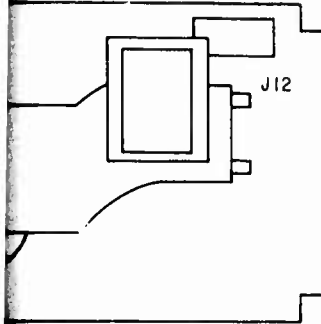
R-F SIGNAL GENERATOR BOTTOM VIEW

MEASURMENT NOTES

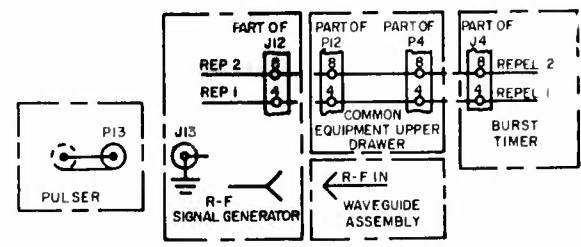
SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			PIN
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	
THIS DATA NOT AVAILABLE													

R-F TEST SET R-F SIGNAL GENERATOR . NOTES

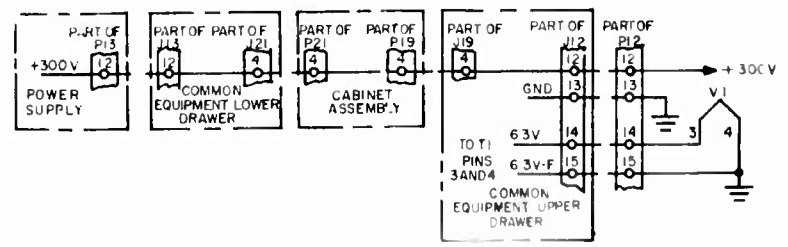
A



TOP BOTTOM VIEW



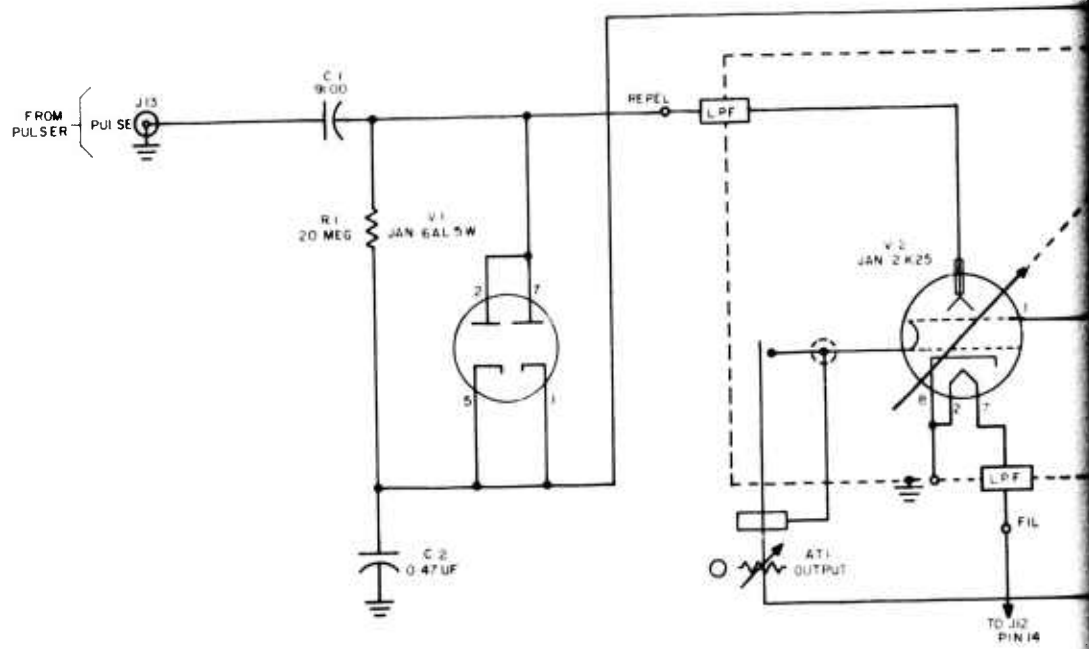
SIGNAL DISTRIBUTION



POWER DISTRIBUTION

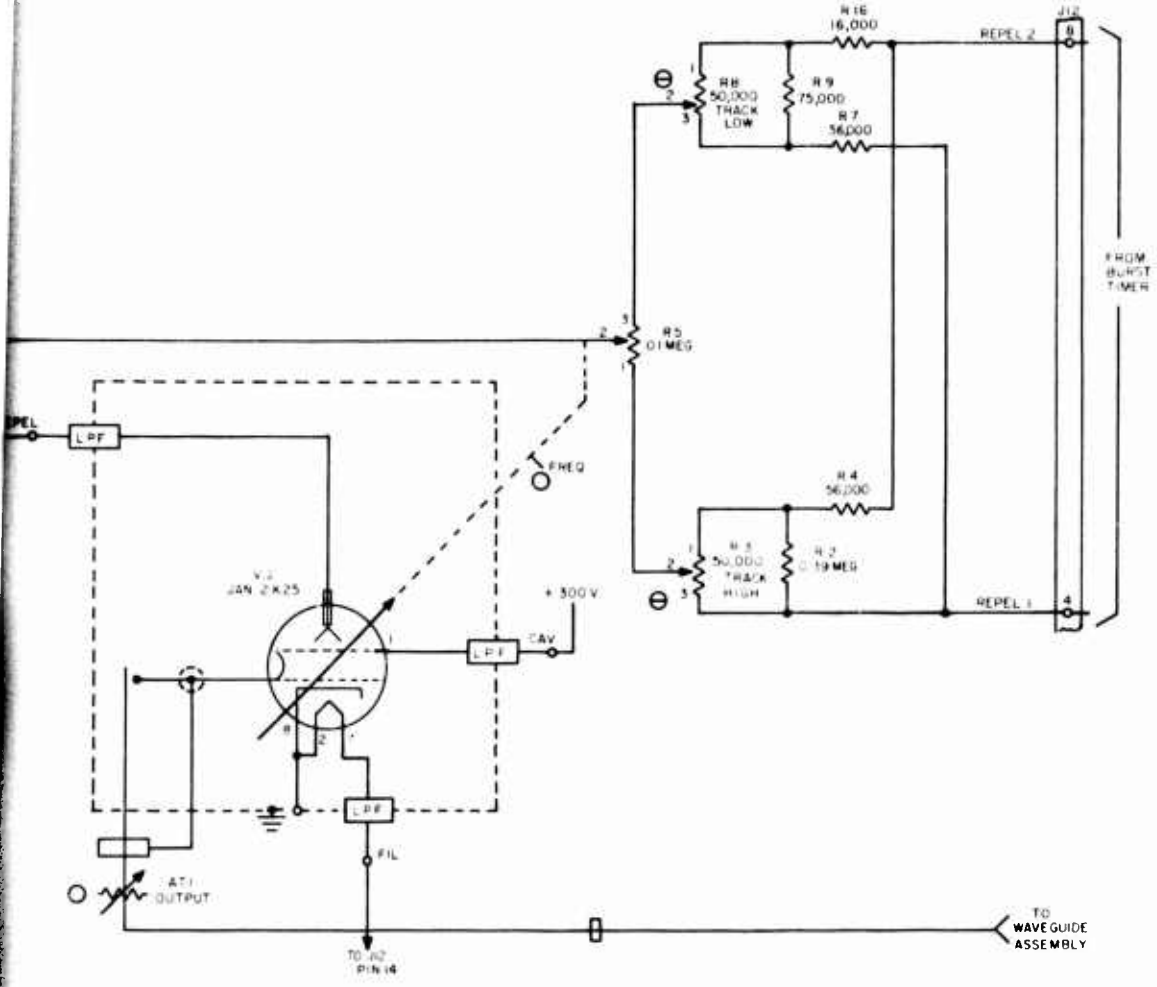
SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
NOT AVAILABLE											

CONFIDENTIAL



CONFIDENTIAL

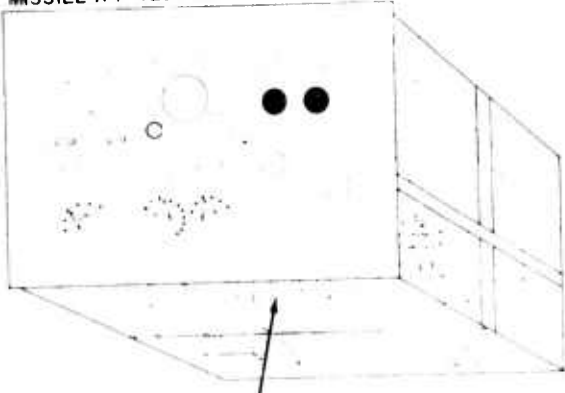
A



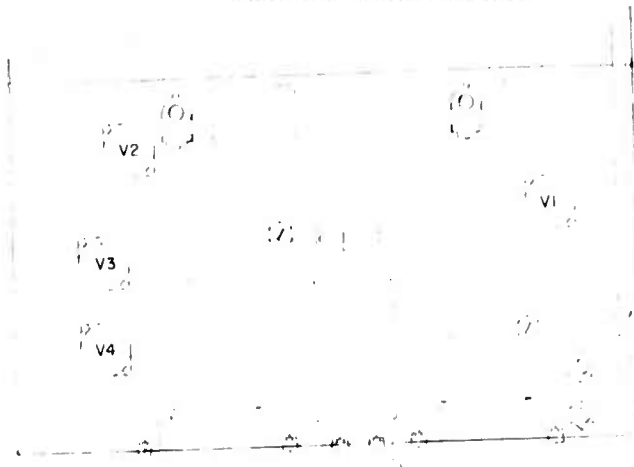
GS-15733 R-F TEST SET SIGNAL GENERATOR

UNCLASSIFIED

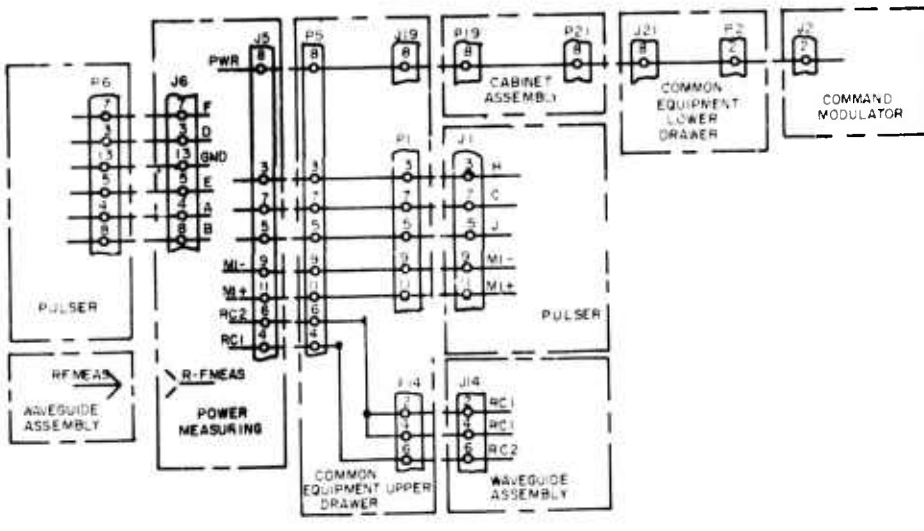
MISSILE R-F TEST SET UPPER DRAWER



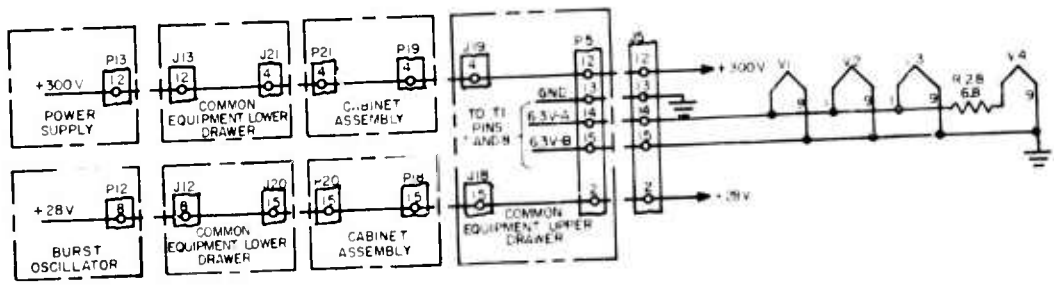
POWER MEASURING



POWER MEASURING BOTTOM VIEW



SIGNAL DISTRIBUTION



POWER DISTRIBUTION

R-F TEST SET R-F POWER MEASURING, NOTES

UNCLASSIFIED

ED

NOTES:

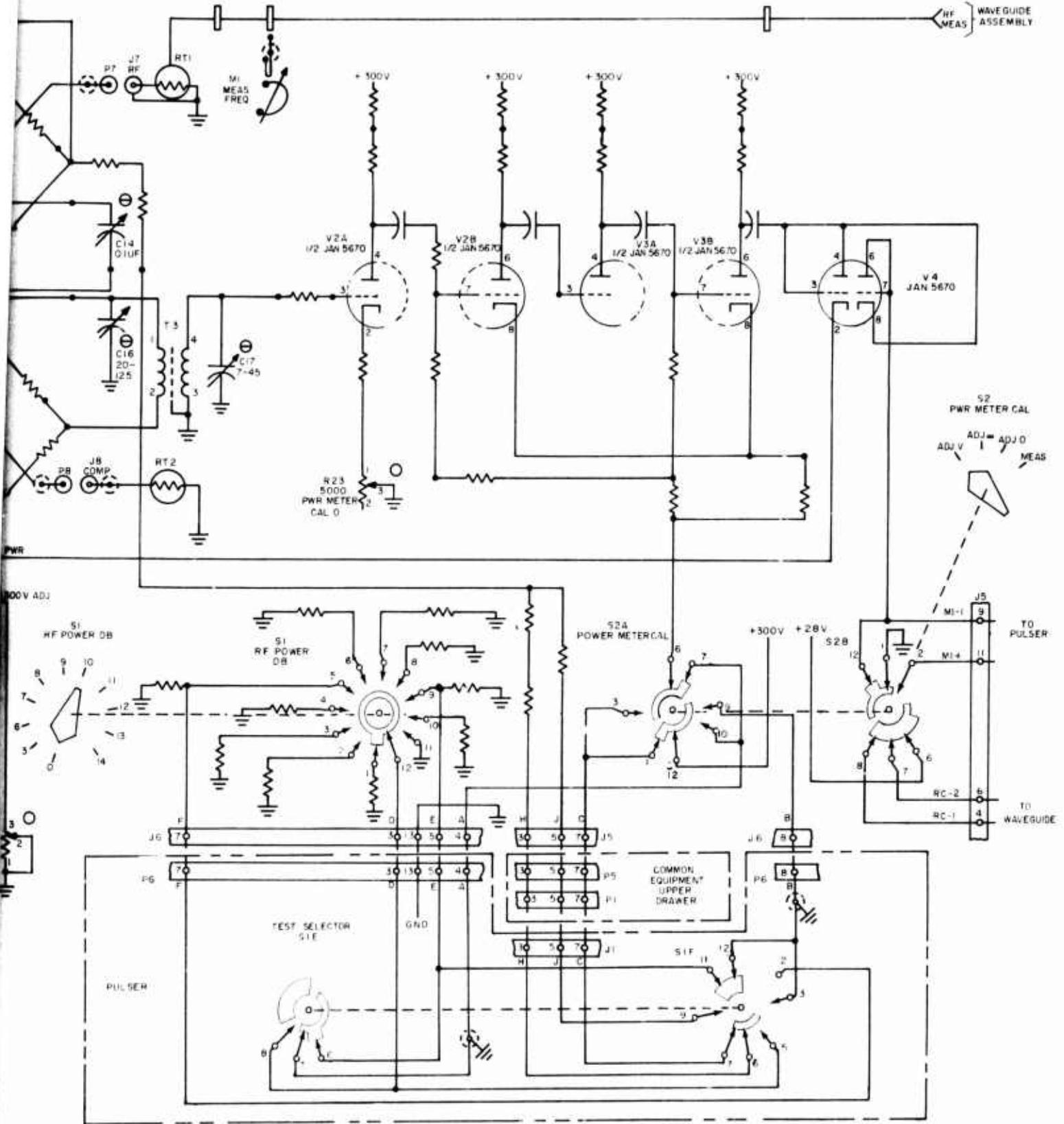
- 1. R 13 RESISTOR IS FURNISHED WITH WAVE MLTER AND THERMISTOR ASSEMBLY.
- 2. TERMINALS 1,2,6,9,10,11,12,14 AND 15 ON J16 AND J10 ON J5 ARE NOT USED.

S1 SWITCH CONNECTION	
POSITION	CONTACTS MADE
0	1-12
3	2-12
6	3-12
7	4-12
8	5-12
9	6-12
10	7-12
11	8-12
12	9-12
13	10-12
14	11-12

S2 SWITCH CONNECTION		
POSITION	S2 A	S2 B
ADJ. V	12-1, 6-7	12-1, 6-7-8
ADJ. ∞	12-1, 6-8	1-2, 6-7-8
ADJ. 0	12-3, 6-9	1-2, 6-7-8

VIEW

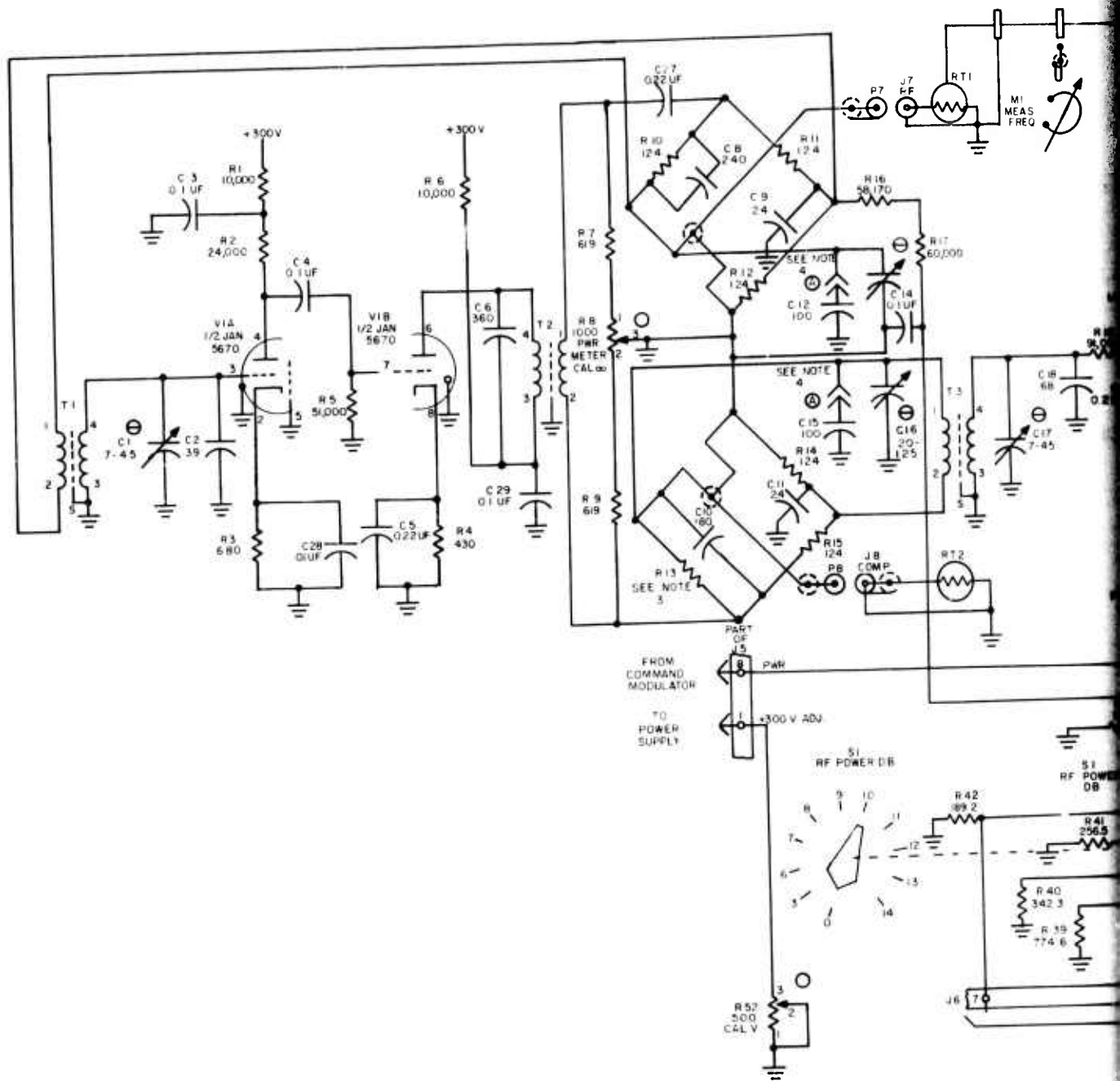
SIMPLIFIED



R-F TEST SET POWER MEASURING, SIMPLIFIED SCHEMATIC

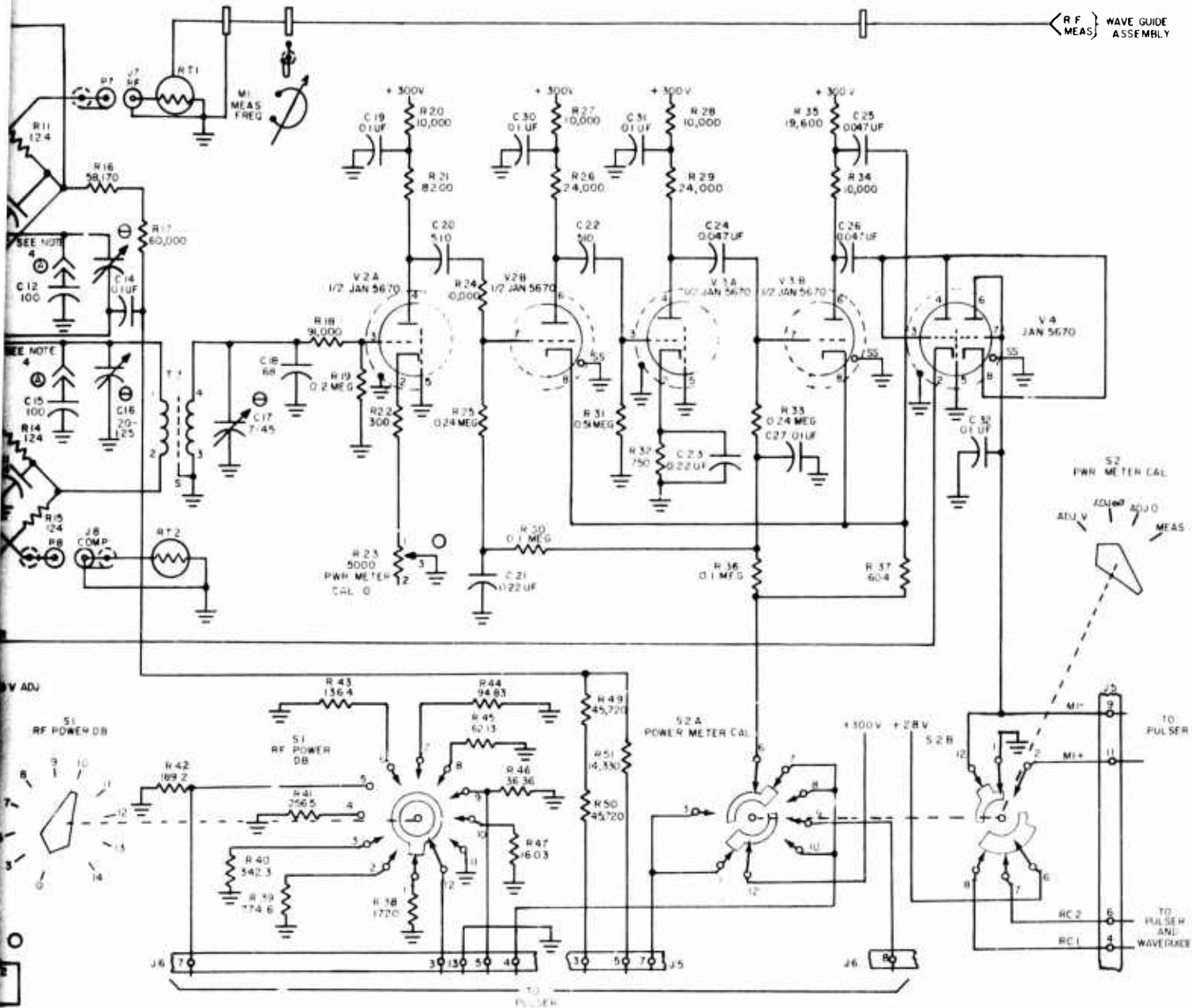
MEASUREMENT NOTES

SUPPRESSOR			SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE														



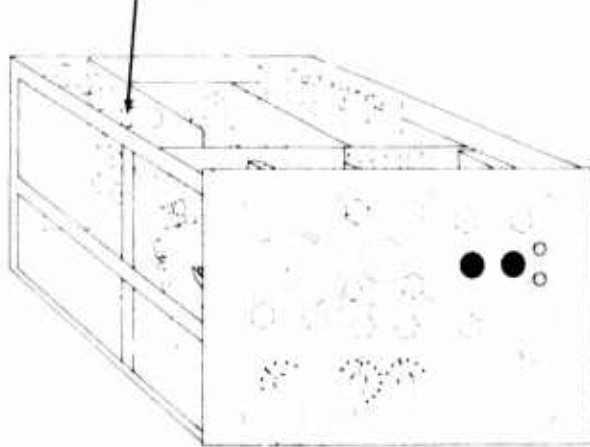
A

ED

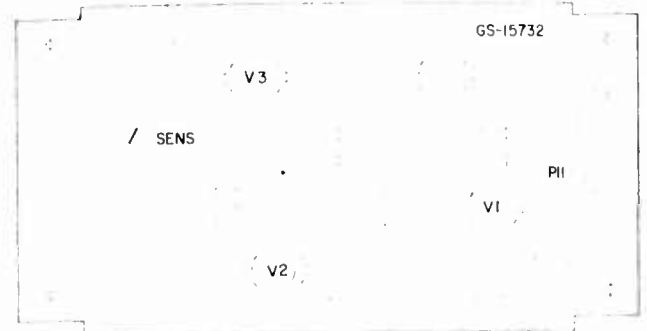


GS-15730 R-F TEST SET POWER MEASURING

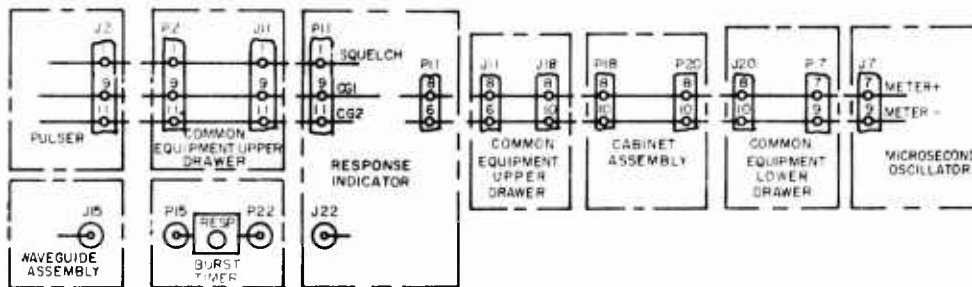
RESPONSE INDICATOR



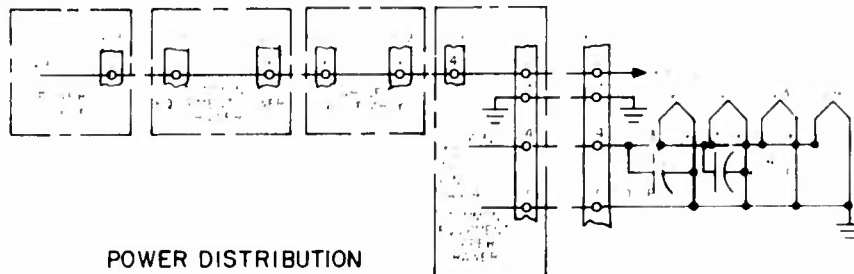
MISSILE R-F TEST SET UPPER DRAWER



RESPONSE INDICATOR SIDE VIEW



SIGNAL DISTRIBUTION



POWER DISTRIBUTION

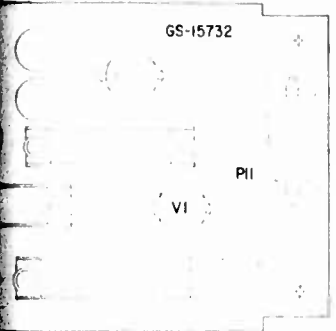
R-F TEST SET RESPONSE INDICATOR, NOTES

A

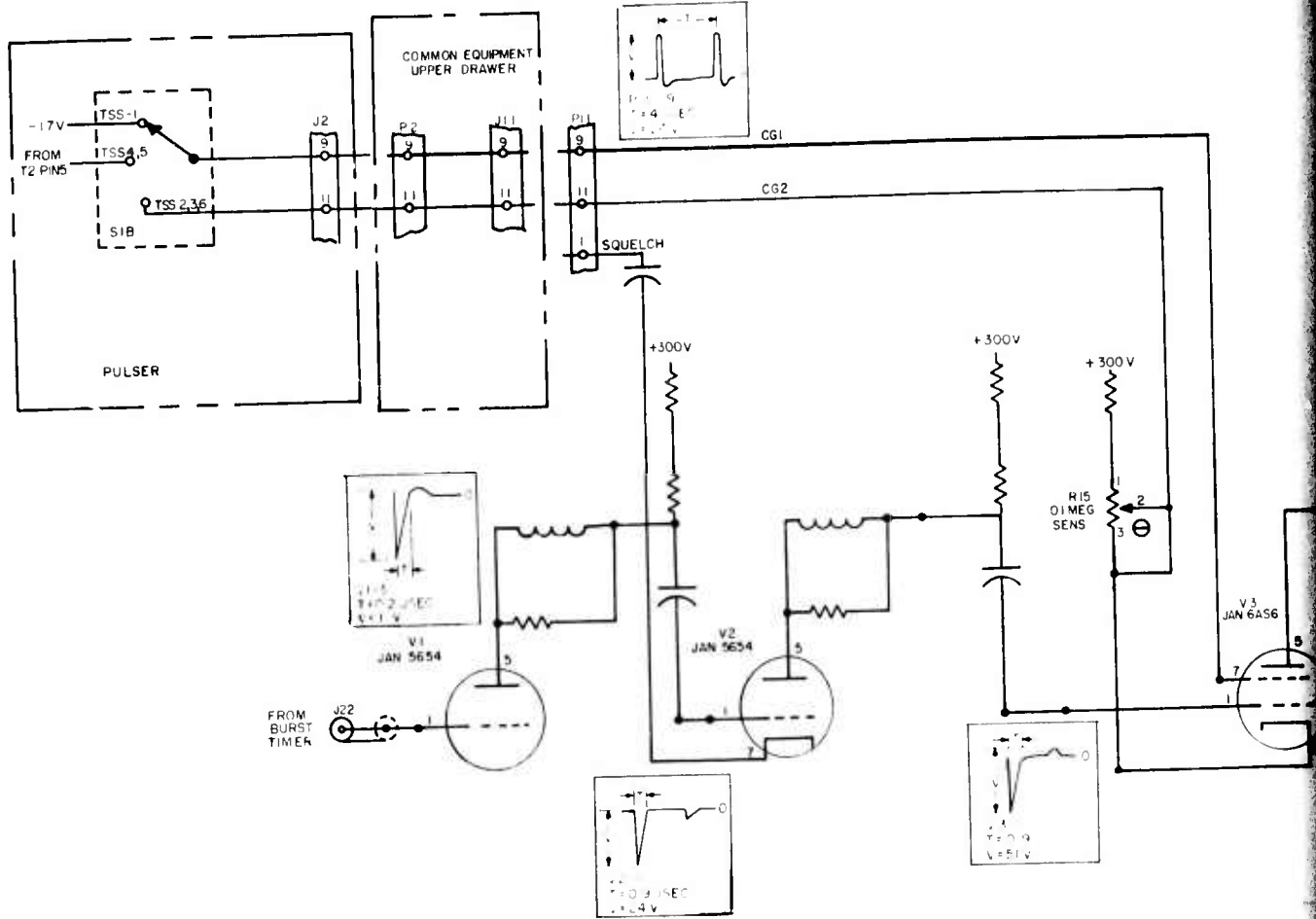
NOTES:

- 1 TERMINALS 2,3,4,5,7 AND 10 ON PII ARE NOT USED
- 2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS:

<u>SWITCH</u>	<u>POSITION</u>
TEST SELECTOR	RESPONSE TIME A
PWR METER CAL	MEAS
TIME	4 00

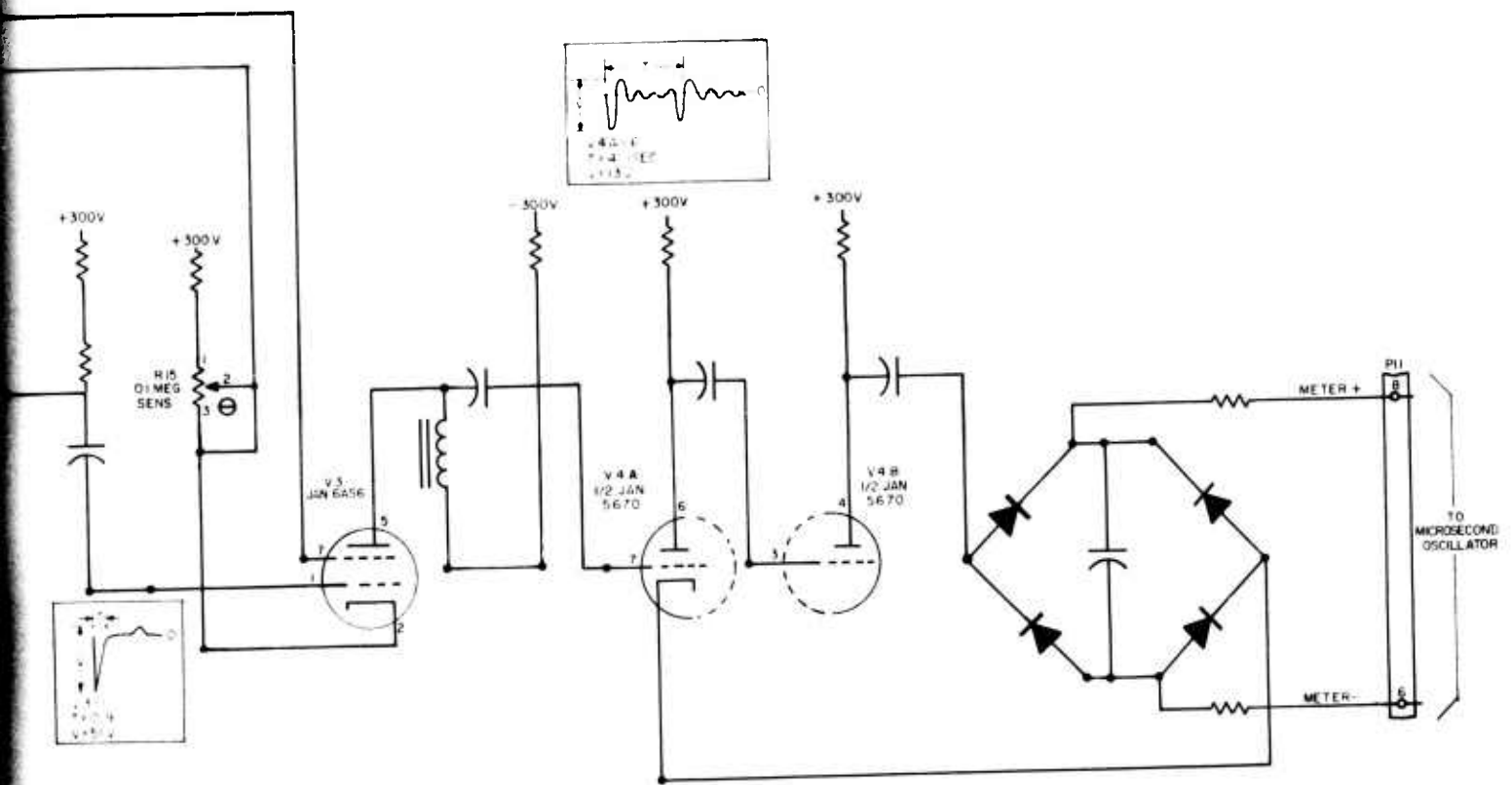


FOR SIDE VIEW



CONFIDENTIAL

A



R-F TEST SET RESPONSE INDICATOR SIMPLIFIED SCHEMATIC
 (T6S 1,2,3,4,5 AND 6)

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN			
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	
THIS DATA NOT AVAILABLE													

R-F TEST SET RESPONSE INDICATOR, NOTES

~~CONFIDENTIAL~~

NOTES:

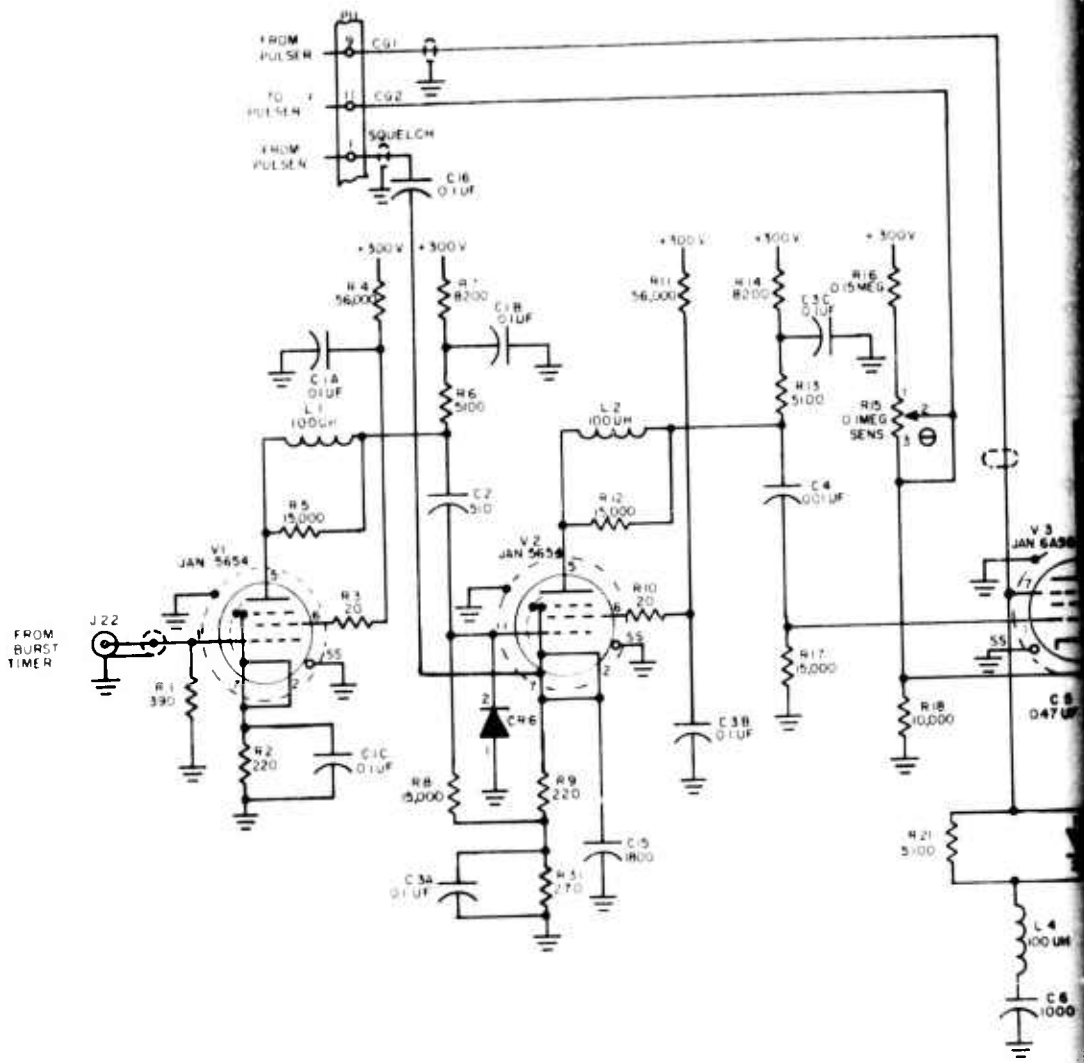
TERMINALS 2,3,4,5,7 AND 10 ON P11 ARE NOT USED

SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
NOT AVAILABLE											

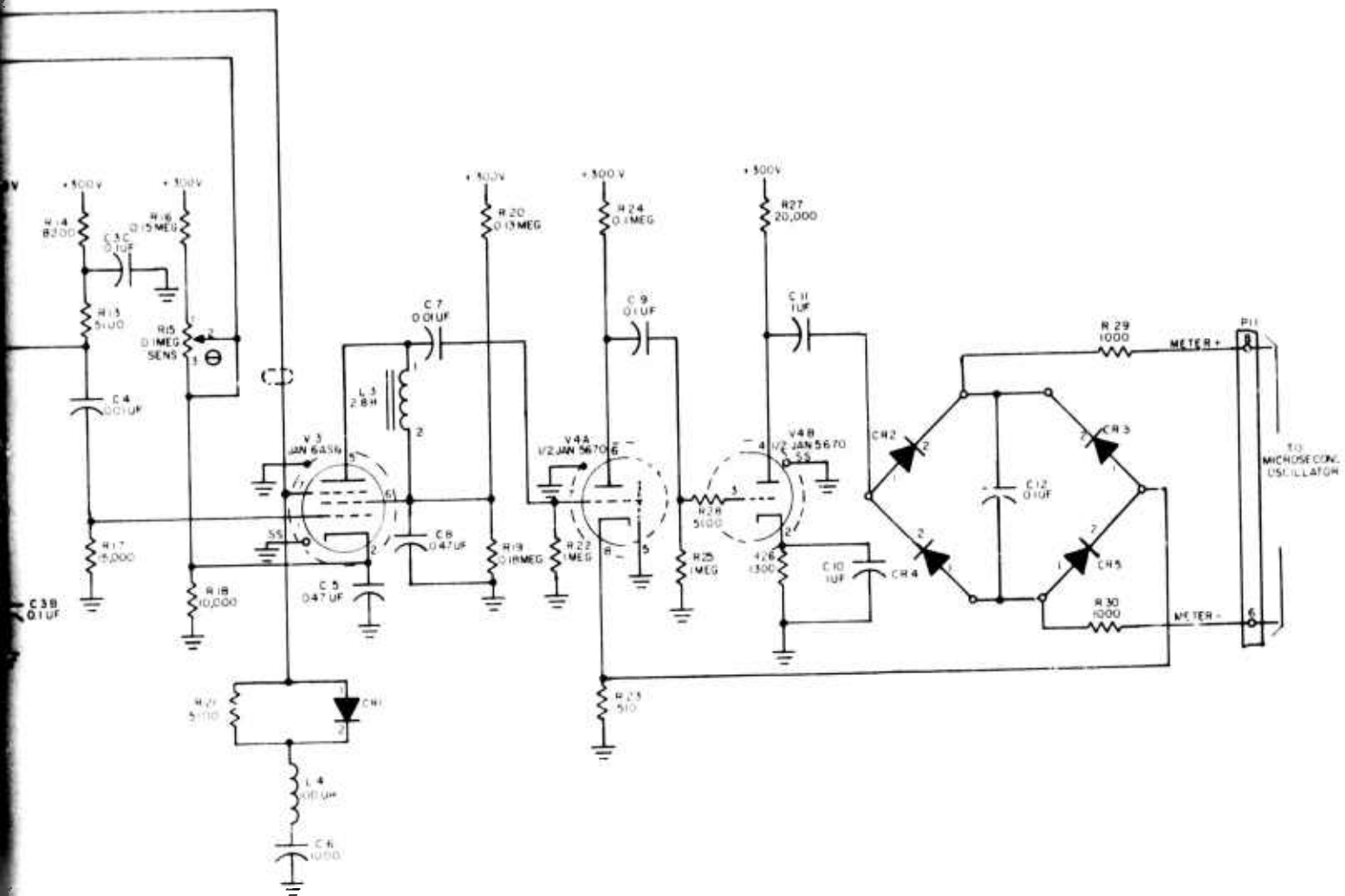
THAL

XXXXXXXXXXXXXXXXXXXX

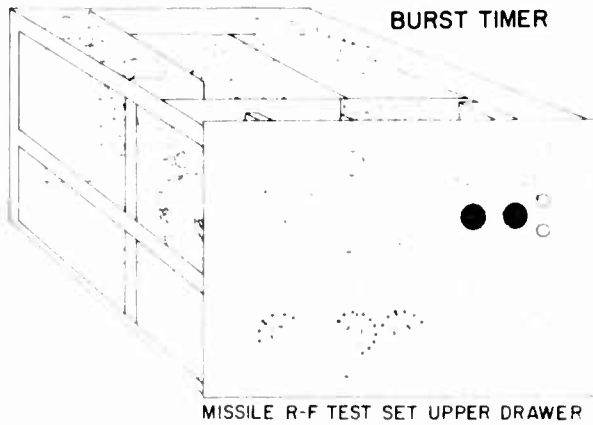
B



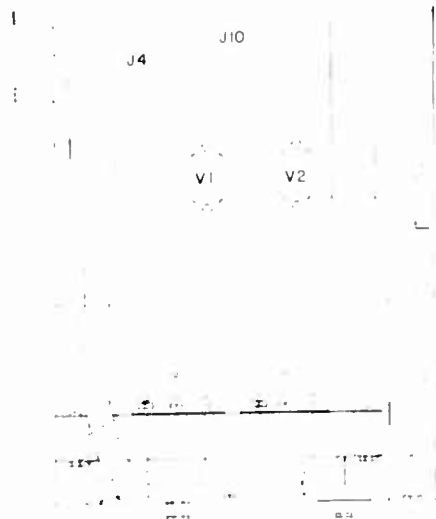
A



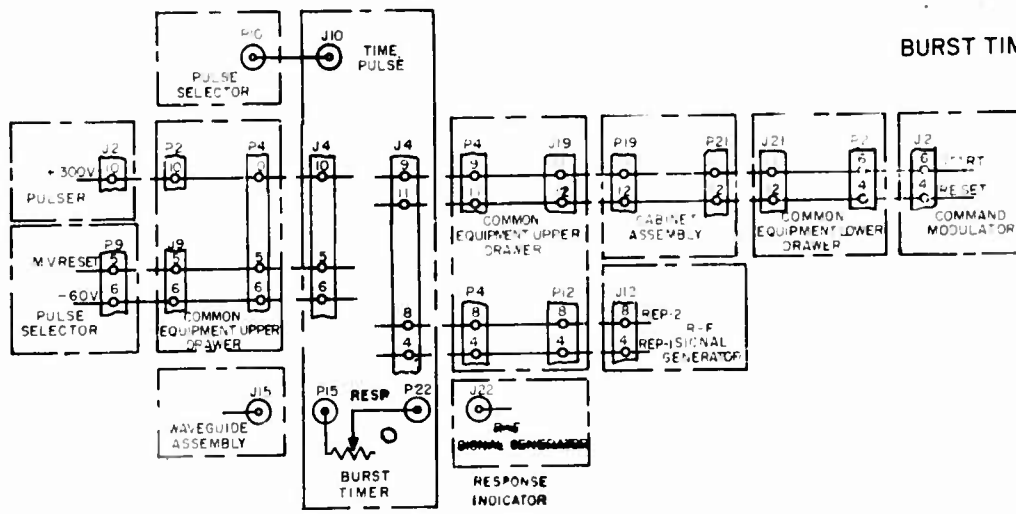
GS-15732 R-F TEST SET RESPONSE INDICATOR



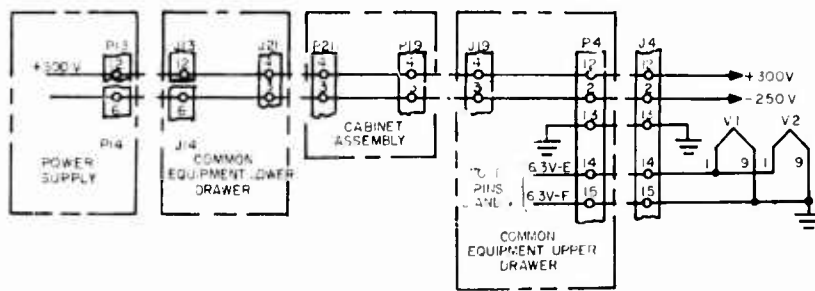
MISSILE R-F TEST SET UPPER DRAWER



BURST TIMER TOP VIEW



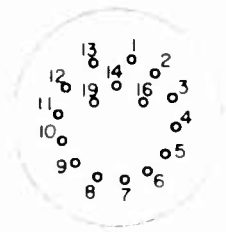
SIGNAL DISTRIBUTION



POWER DISTRIBUTION

R-F TEST SET BURST TIMER, NOTES

V3 AND V4 CONNECTIONS	
TERM NO	ELEMENT
1	K3 CATHODE
2	K2 CATHODE
3	K1 CATHODE
4	K10 CATHODE
5	AUX ANODE
6	SHIELD
7	K9 CATHODE
8	K8 CATHODE
10	K6 CATHODE
11	B6-10 CATHODE
12	K5 CATHODE
13	K4 CATHODE
14	B1-5 CATHODES
16	NORM CATHODE
19	ANODE



6167 TUBE BASE
BOTTOM VIEW

NOTES

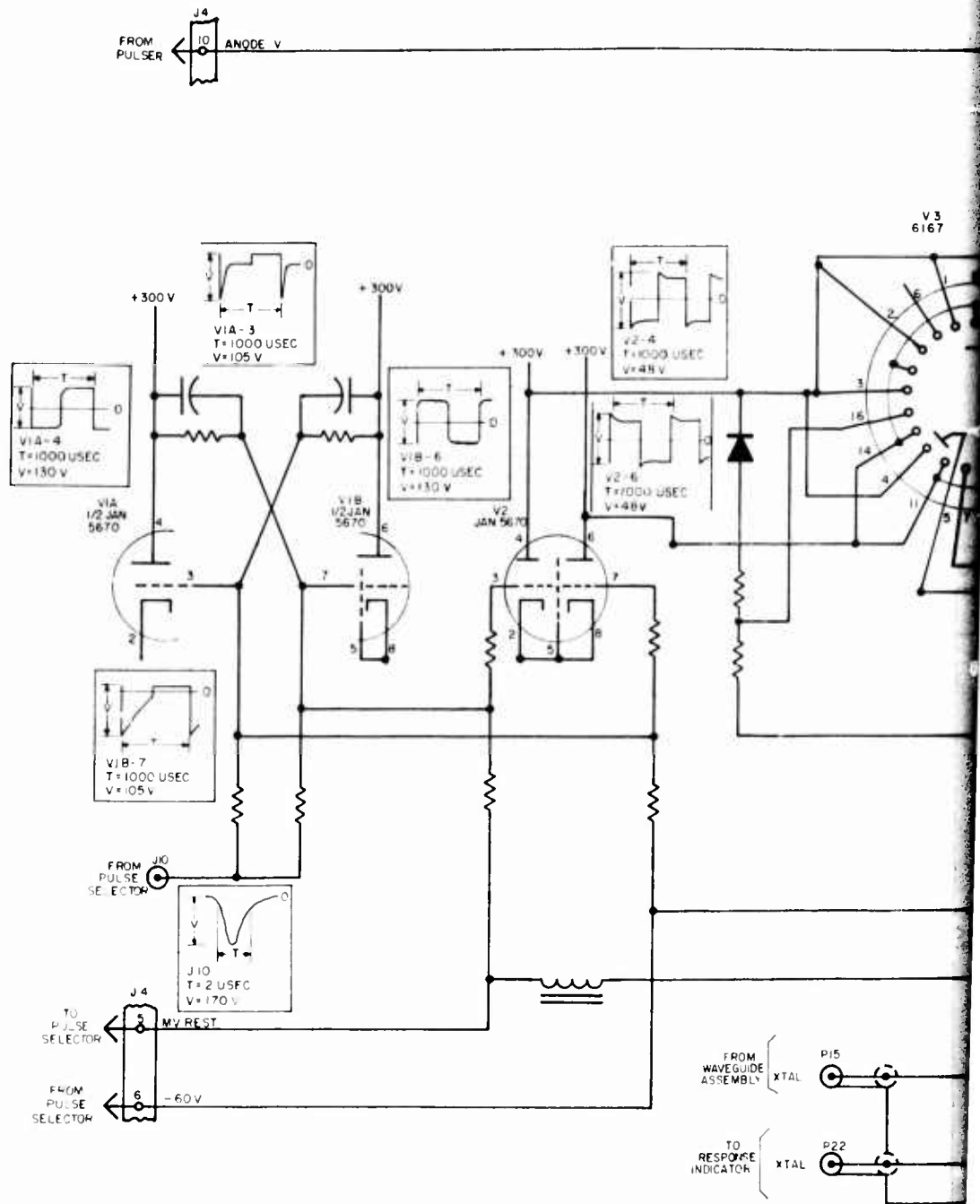
- 1 TERMINALS 1, 3 AND 7 ON J4 ARE NOT USED
- 2 WAVE SHAPES ARE SHOWN FOR THE FOLLOWING TEST CONDITIONS

SWITCH	POSITION
TEST SELECTOR	COM SIG
PWR METER	MEAS
COMMAND CAL	MEAS
START	OPERATED

VIEW

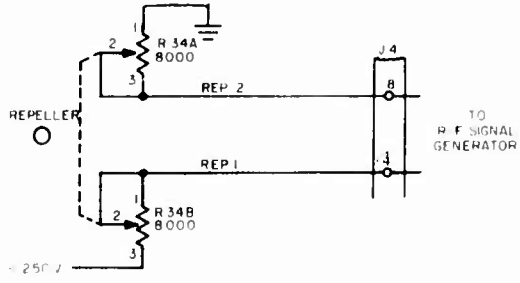
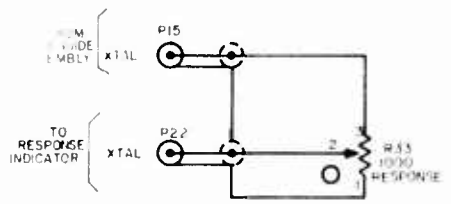
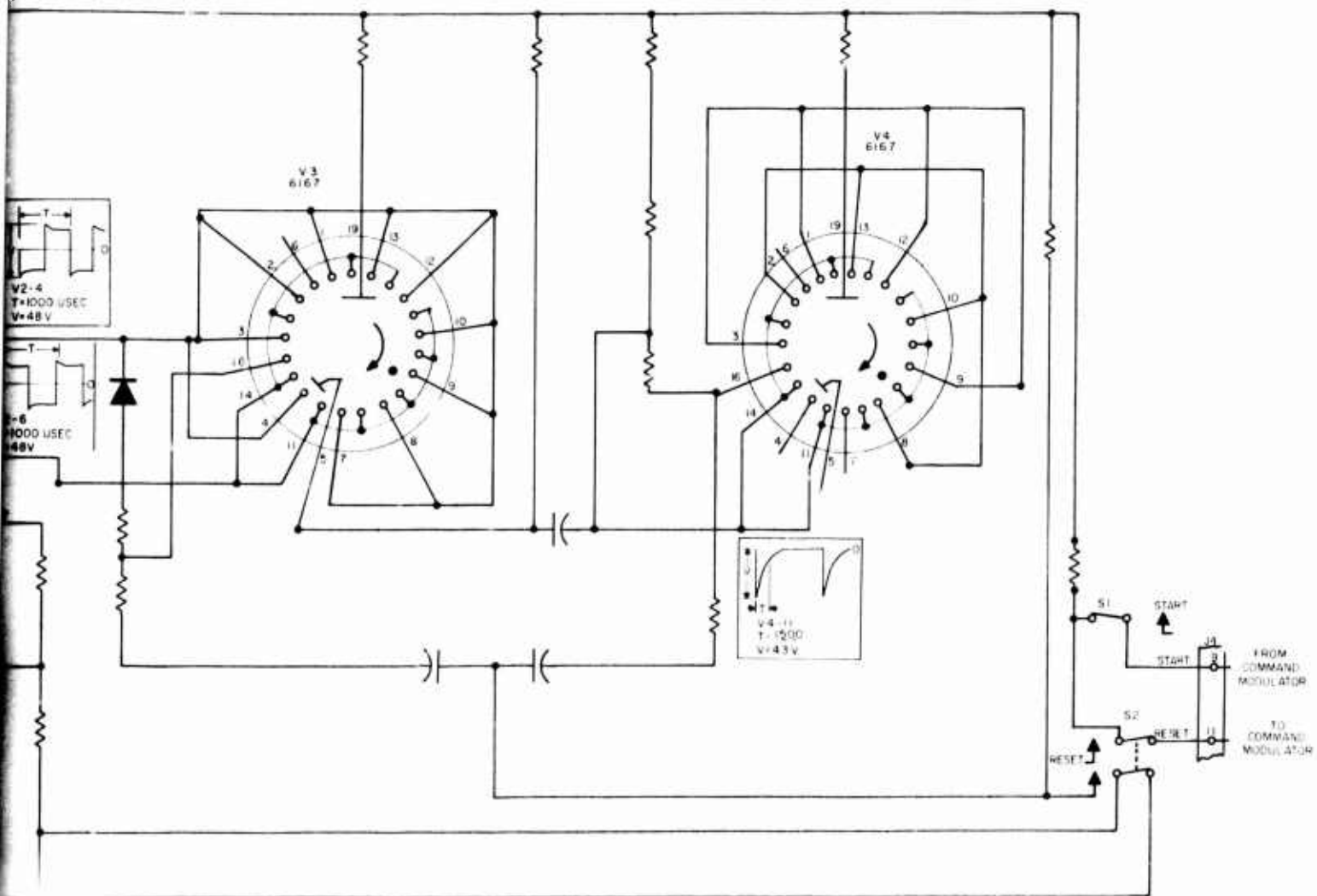
UNCLASSIFIED

V3
6167



CONFIDENTIAL

A



R-F TEST SET BURST TIMER SIMPLIFIED SCHEMATIC

~~CONFIDENTIAL~~

MEASUREMENT NOTES

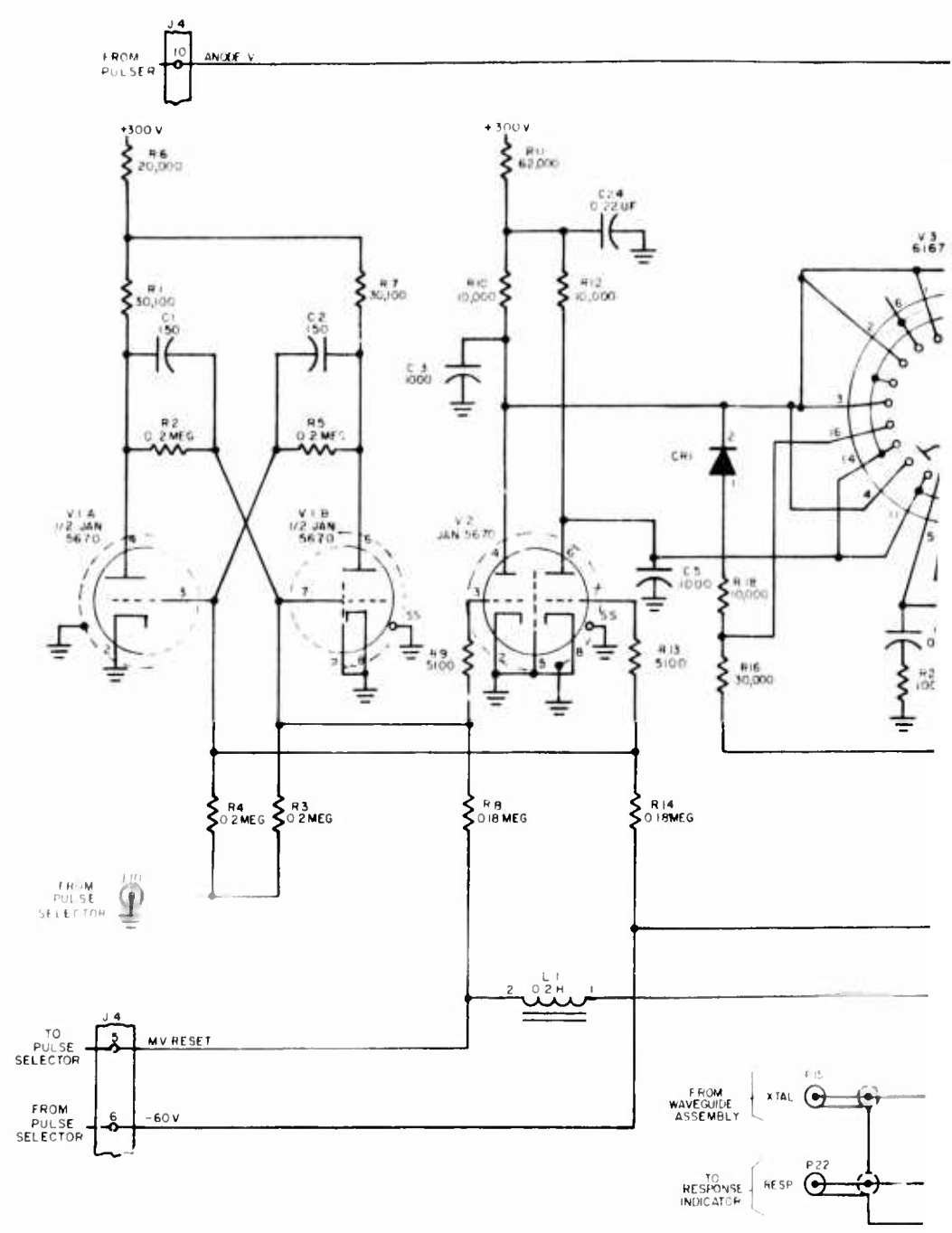
SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			SCREEN		
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE												

R.F. TEST SET BURST TIMER, NOTES

A

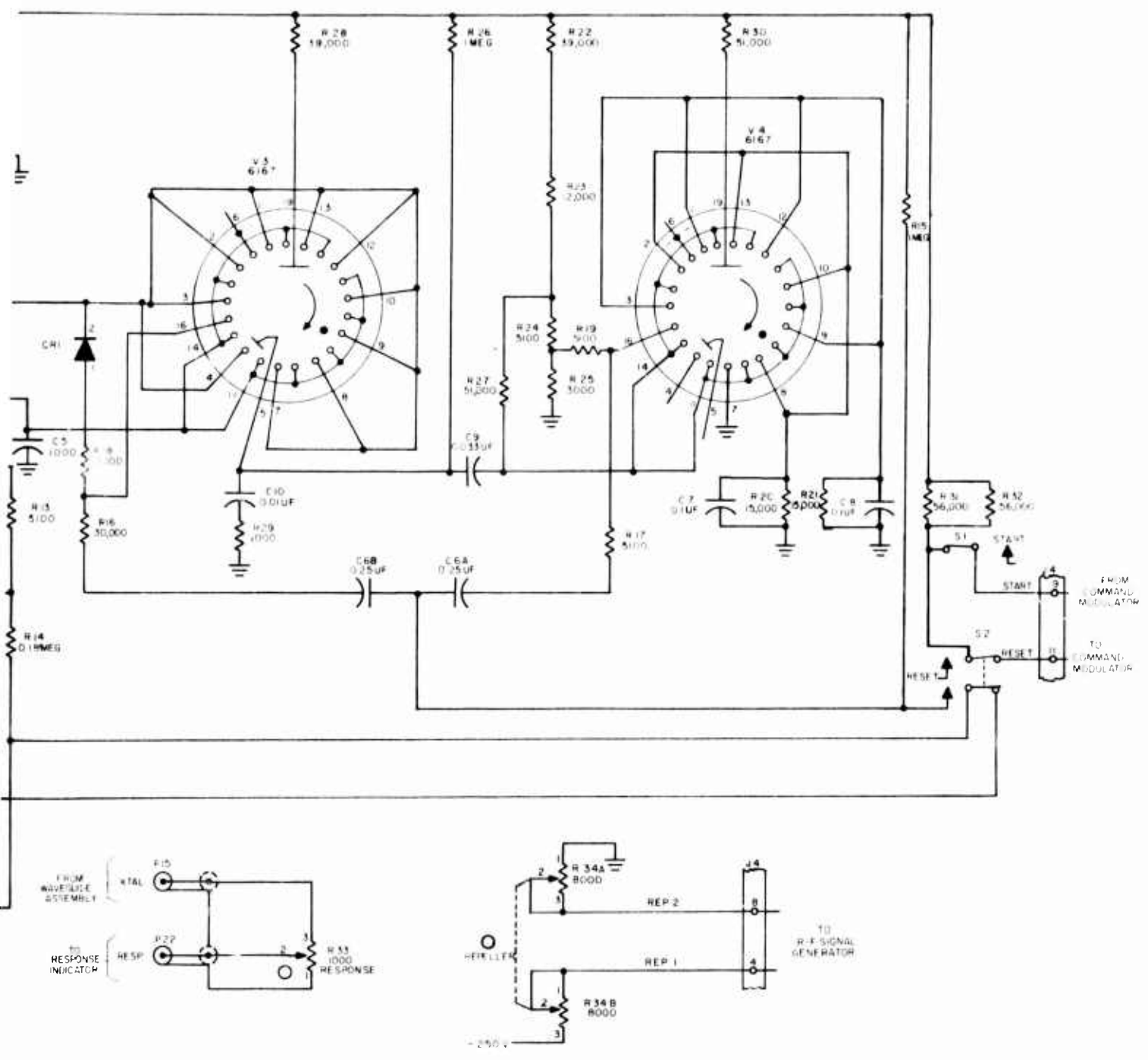
~~CONFIDENTIAL~~

UNCLASSIFIED



UNCLASSIFIED

A



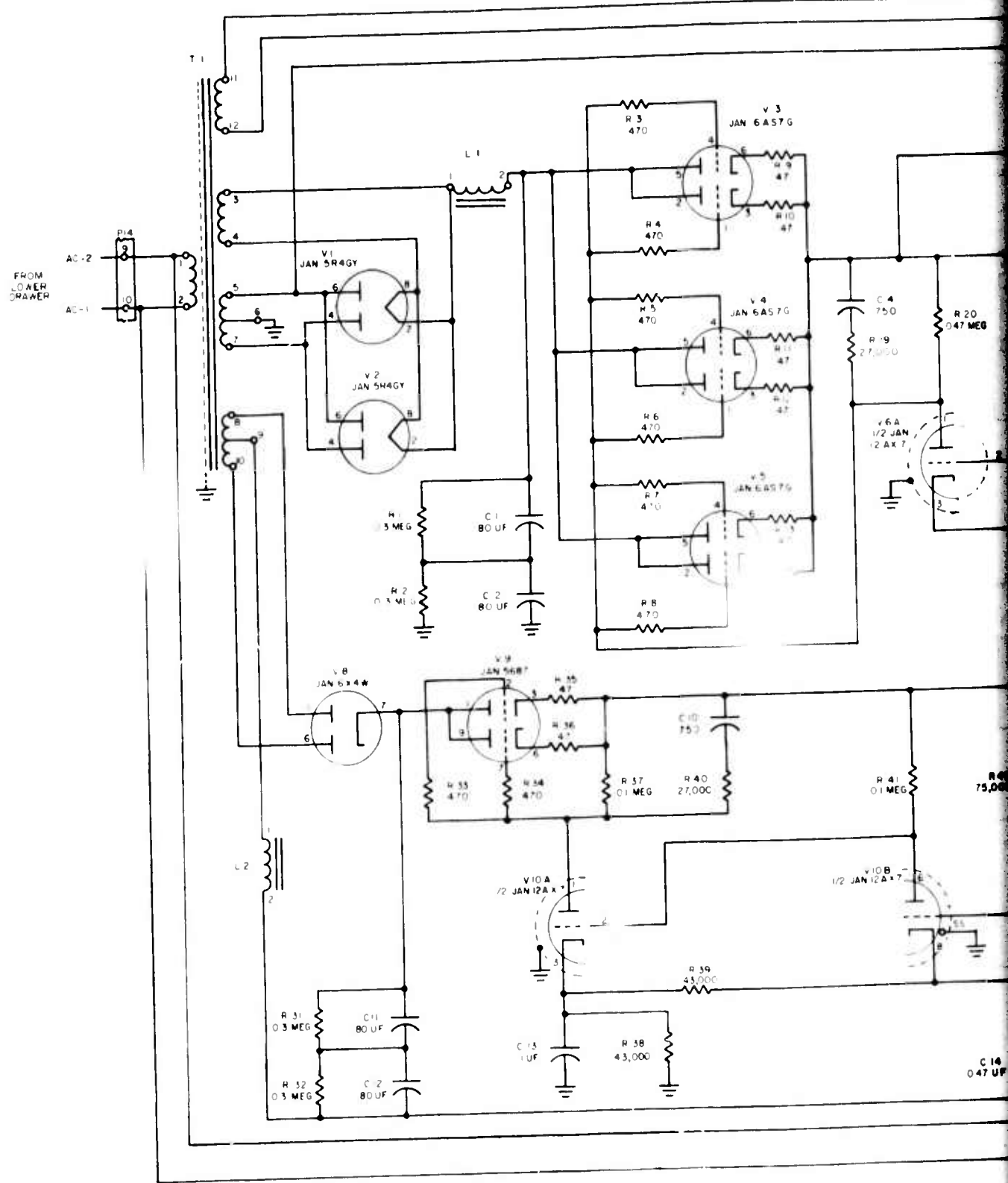
GS-15729 R-F TEST SET BURST TIMER

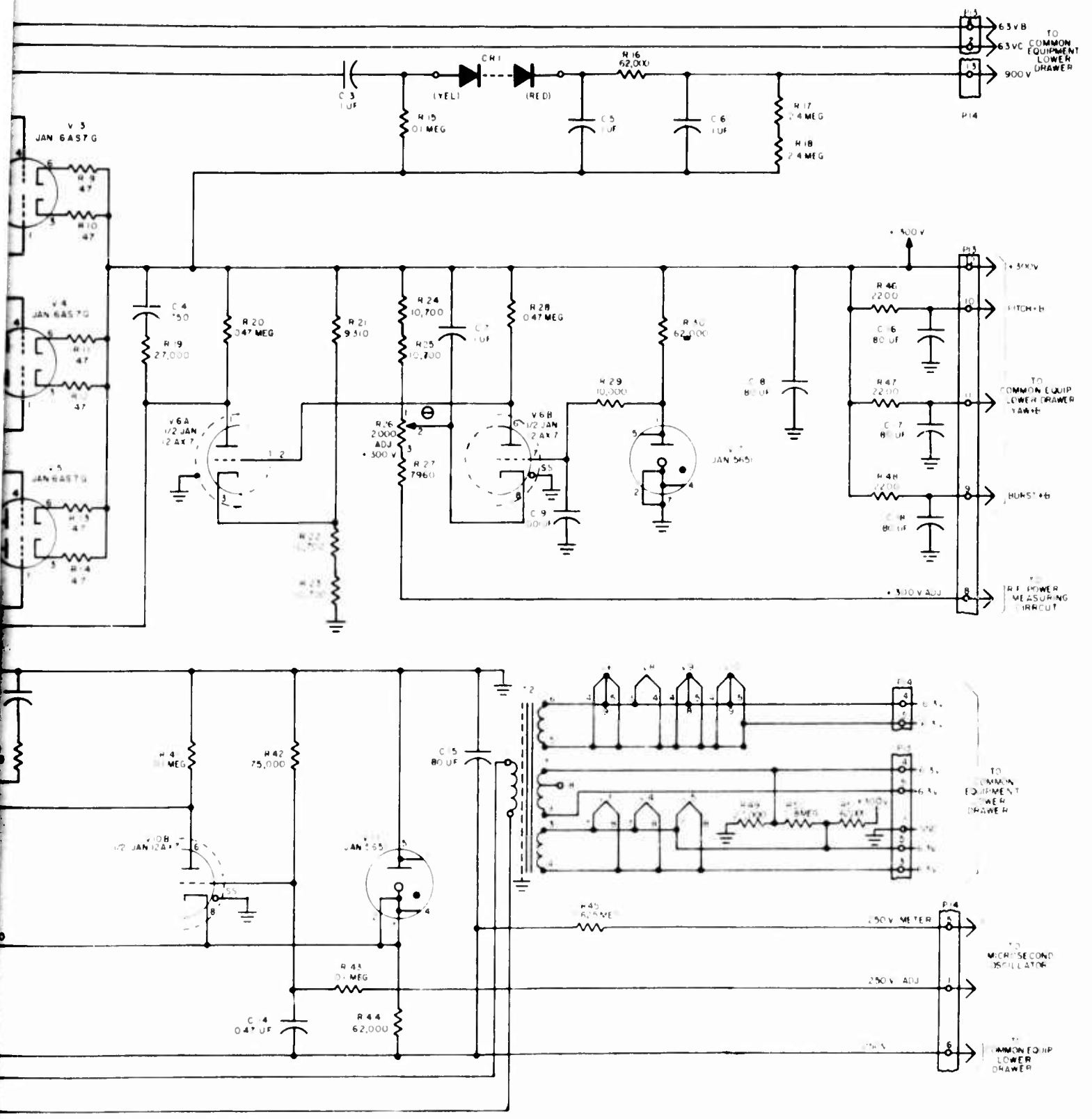
NOTES

ALL VALUES ARE EXPRESSED IN OHMS OR MICROFARADS
UNLESS OTHERWISE INDICATED.

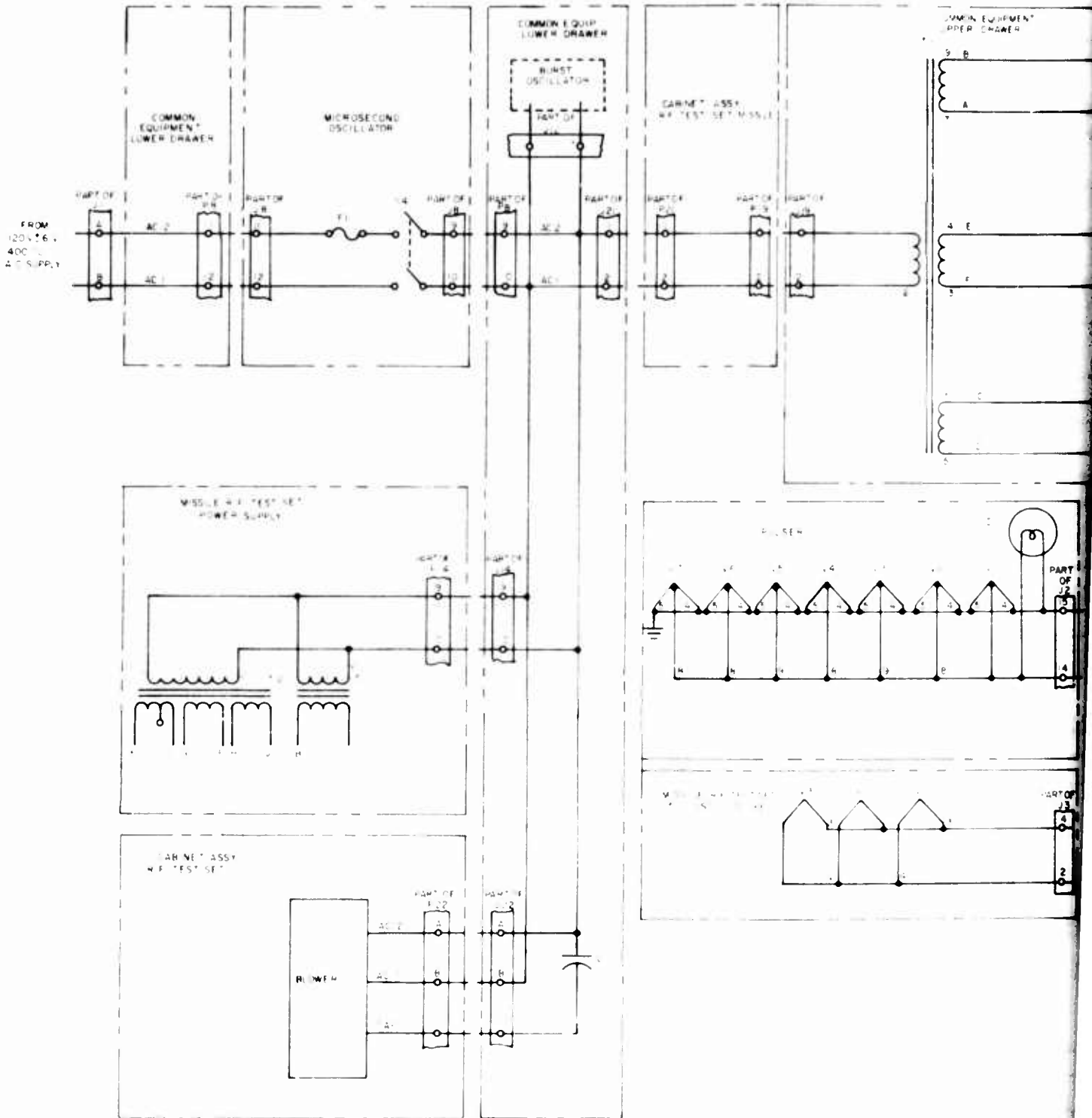
TUBE TYPE	TUBE FUNCTION	PLATE			CONTROL			CATHODE			FILAMENT		
		PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE													

CONFIDENTIAL

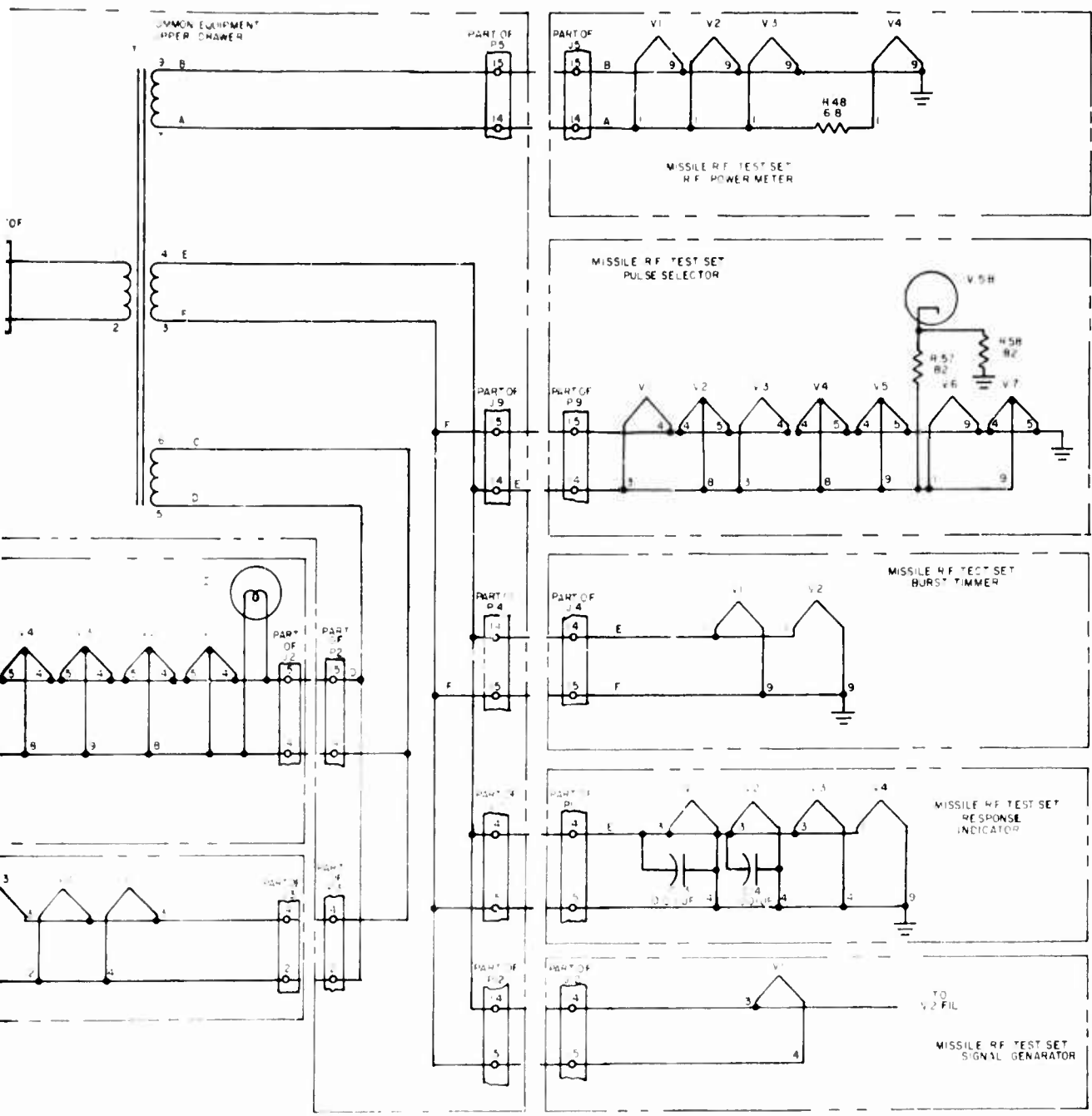


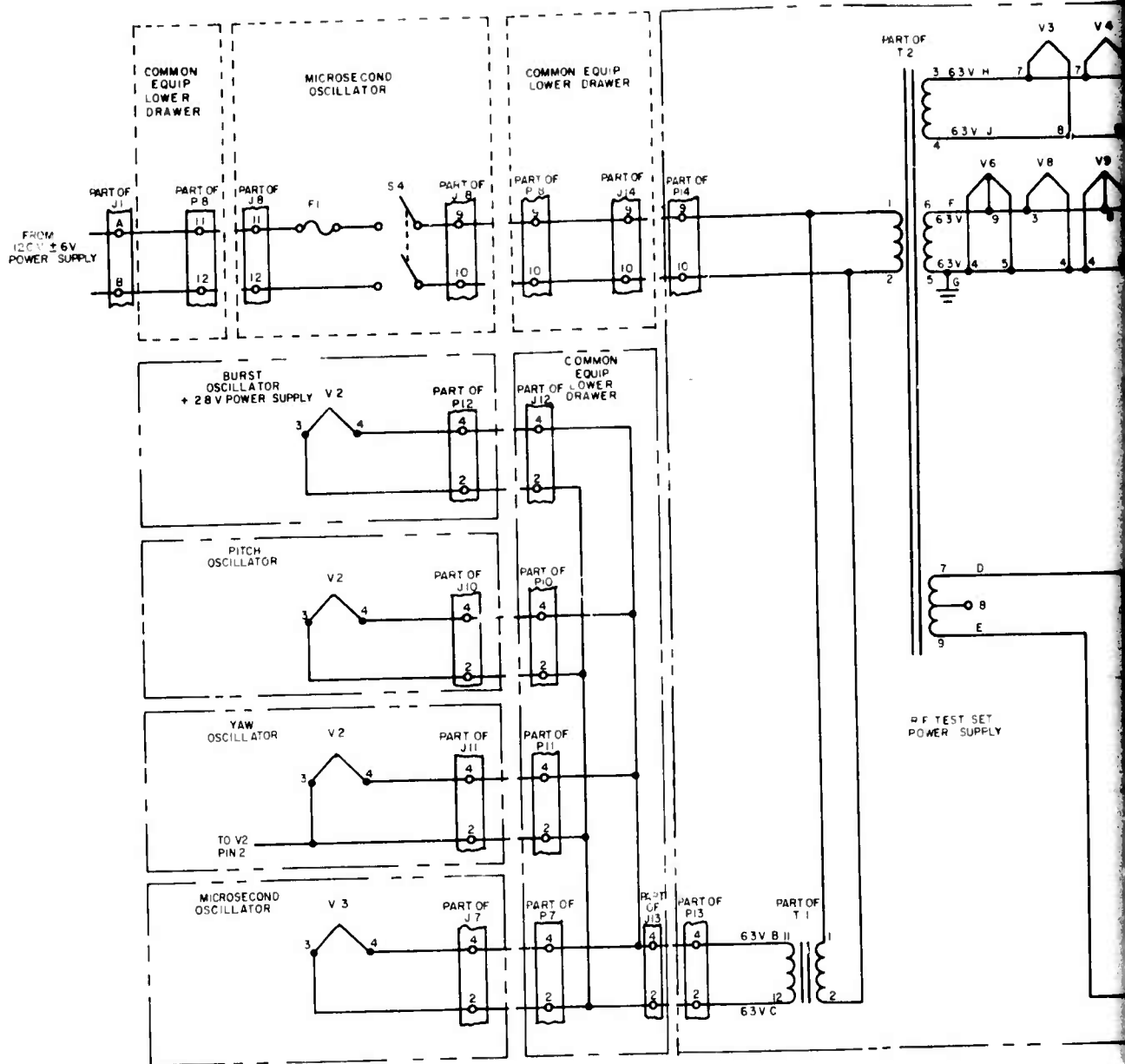


GS-15741 R-F TEST SET POWER SUPPLY



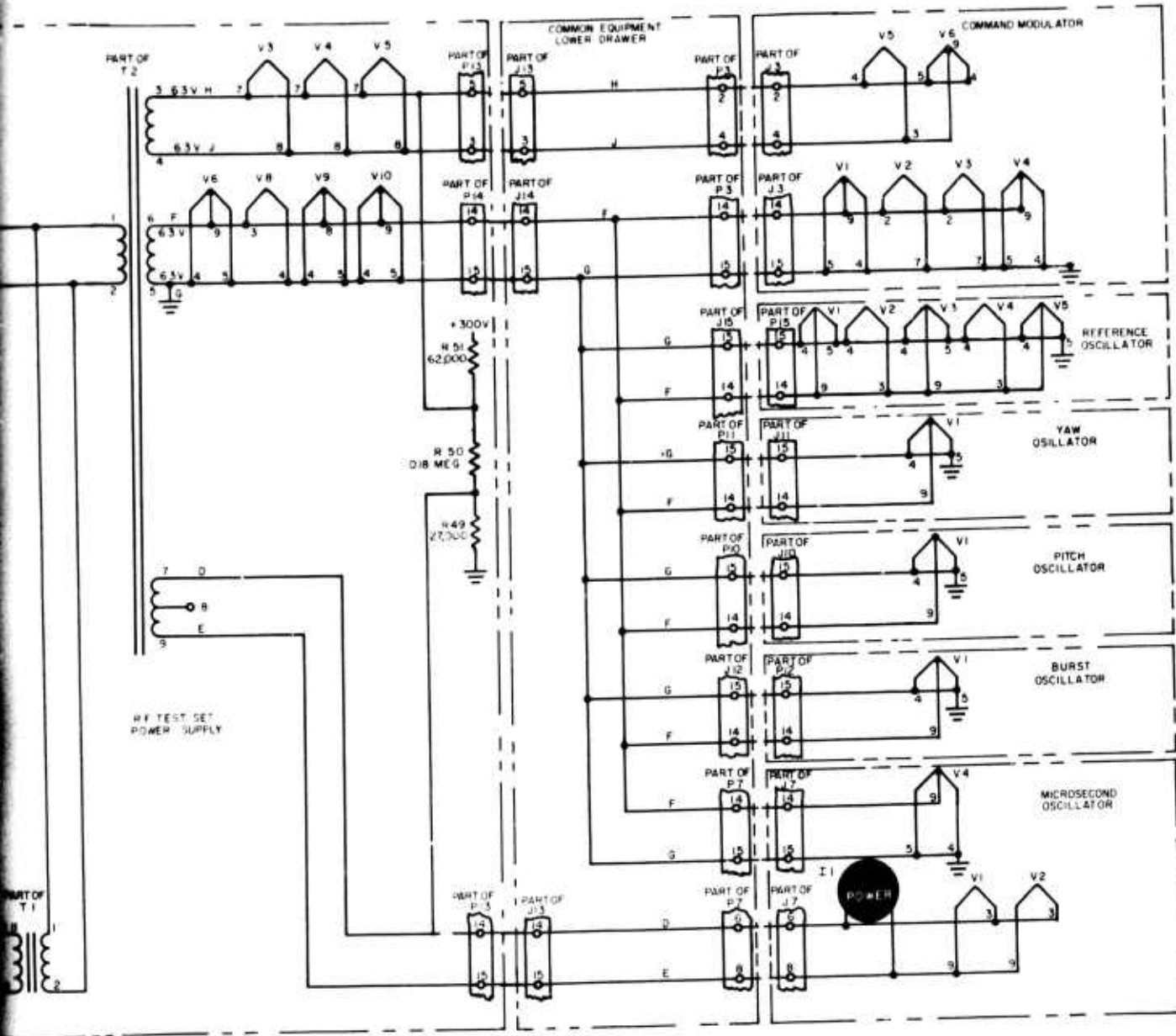
RF TEST SET FILAMENT I





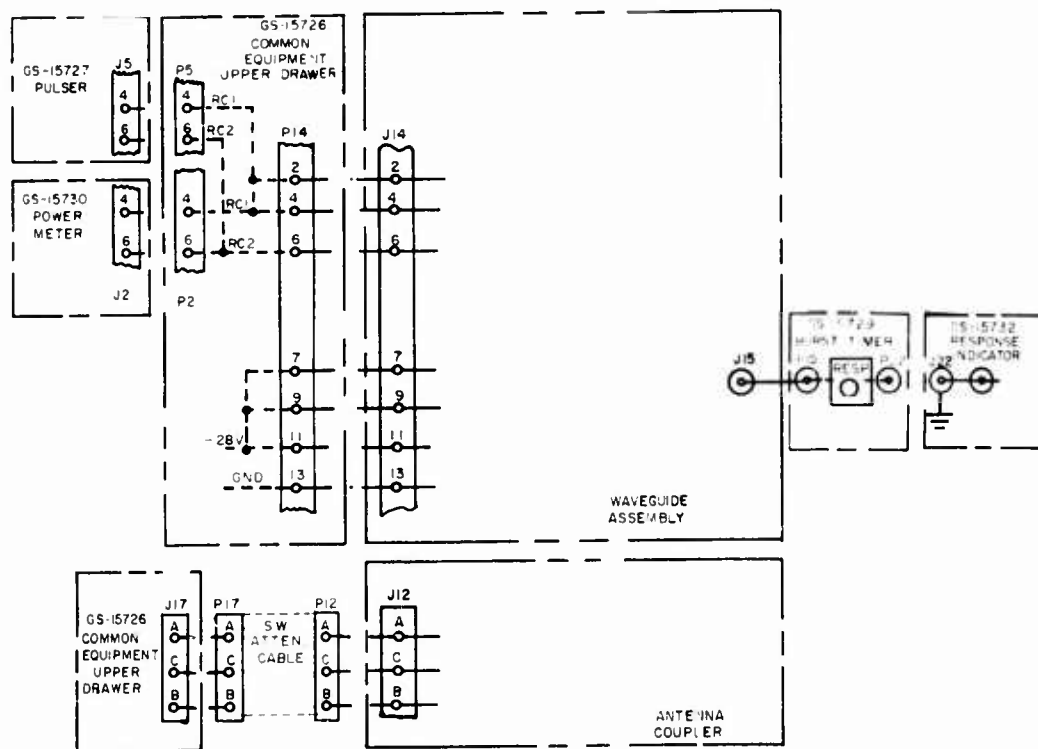
UNCLASSIFIED

A



R-F TEST SET FILAMENT II

B



SIGNAL DISTRIBUTION

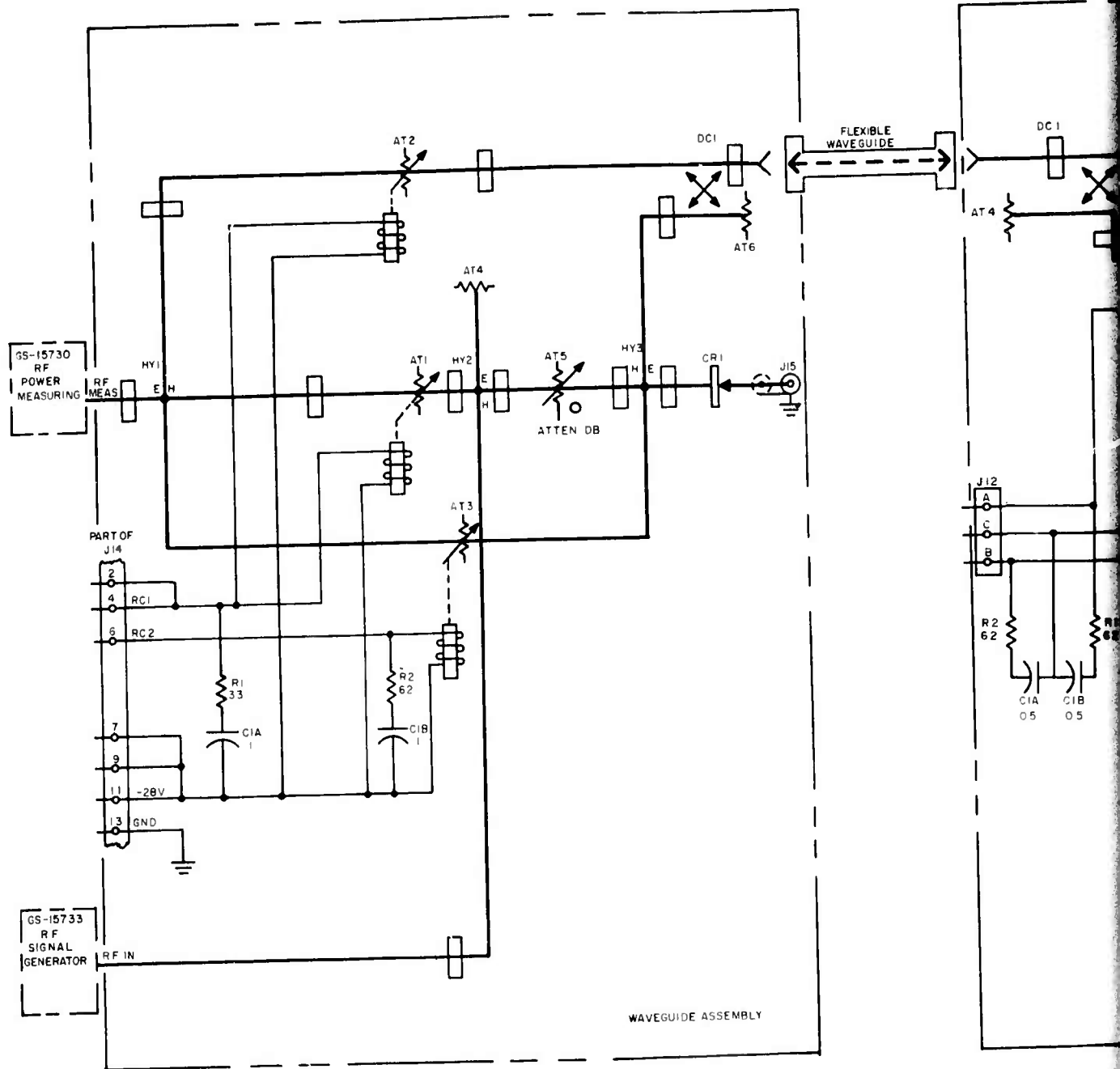
WAVEGUIDE ASSEMBLY AND ANTENNA COUPLER, NOTES

UNCLASSIFIED

A

NOTES:

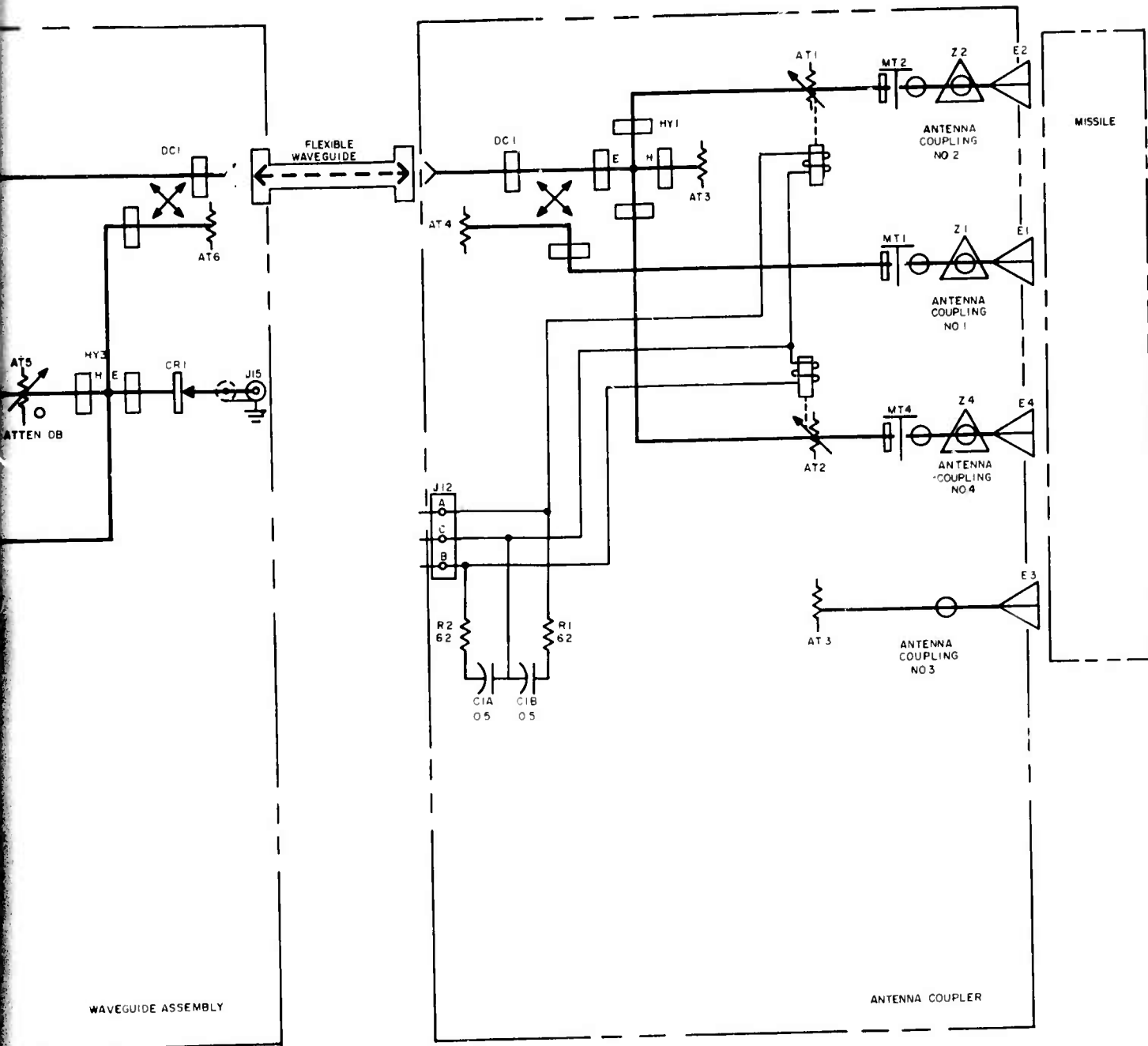
I. E1, E2, E3, AND E4 ARE PART OF
MISSILE UNDER TEST



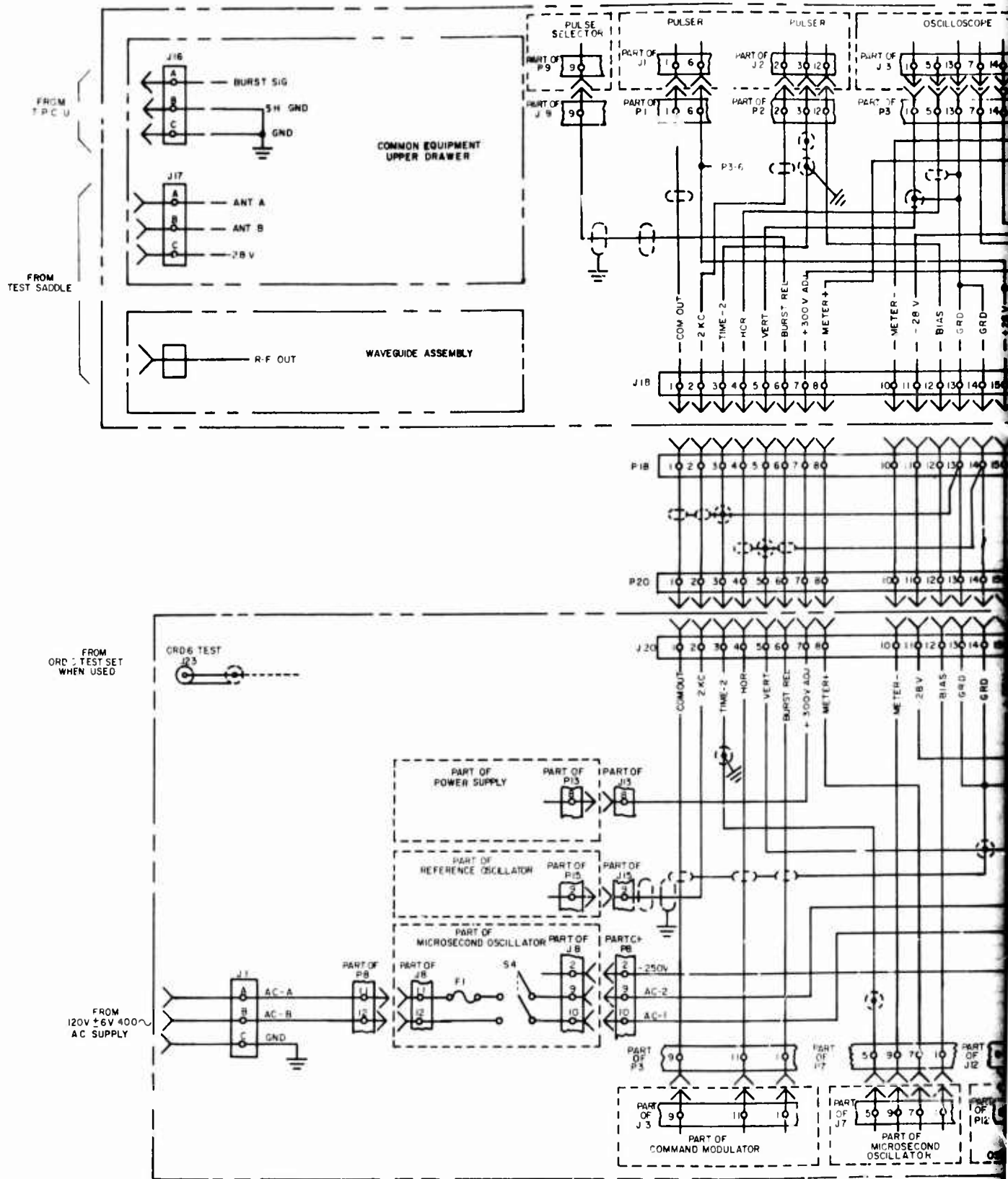
MISSILE R-F TEST SET WA

UNCLASSIFIED

A



MISSILE R-F TEST SET WAVEGUIDE ASSEMBLY SCHEMATIC AND ANTENNA COUPLER SCHEMATIC

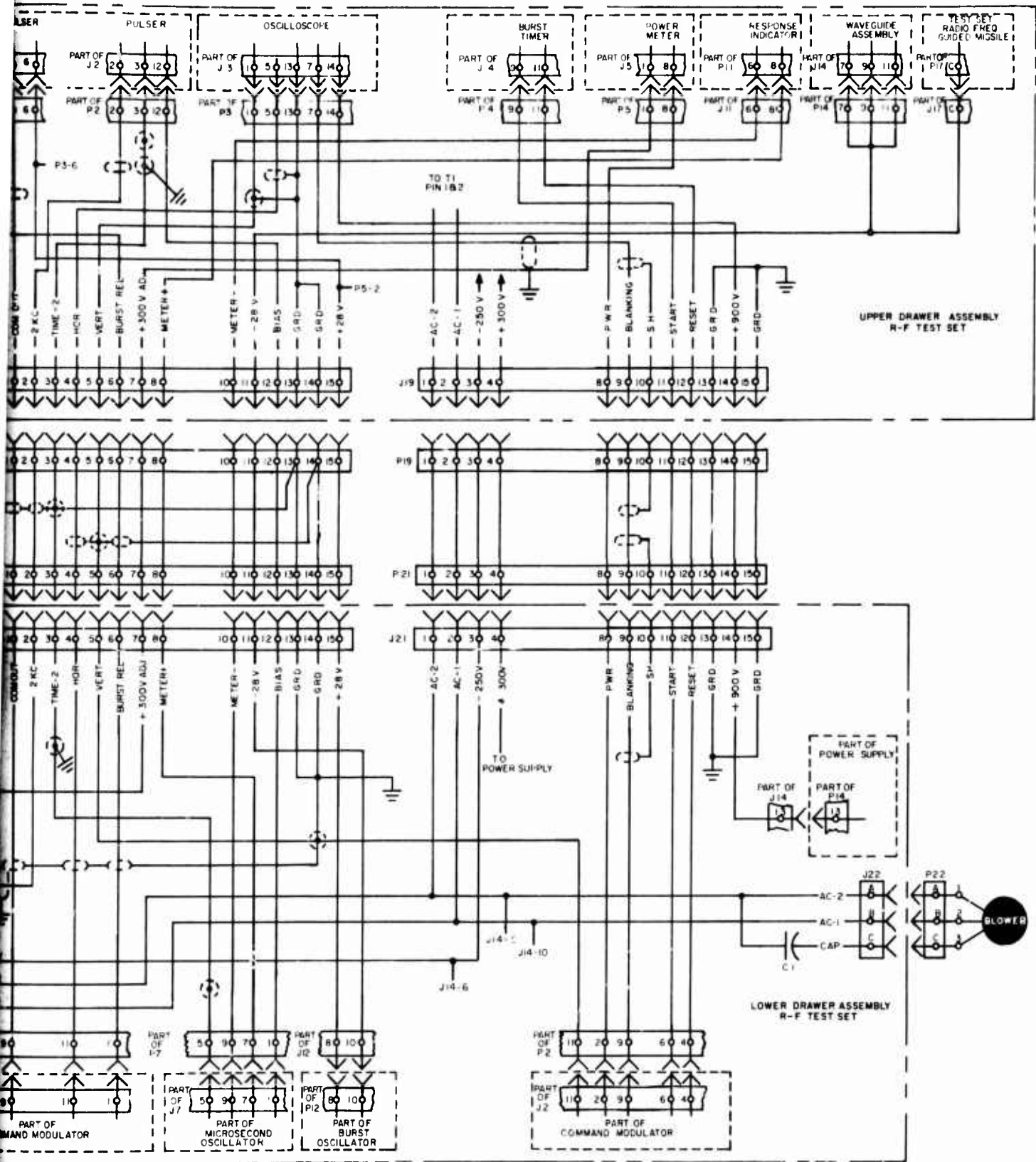


FROM
ORD & TEST SET
WHEN USED

FROM
120V ± 6V 400~
AC SUPPLY

WILCOX FIELD
CORPORATION

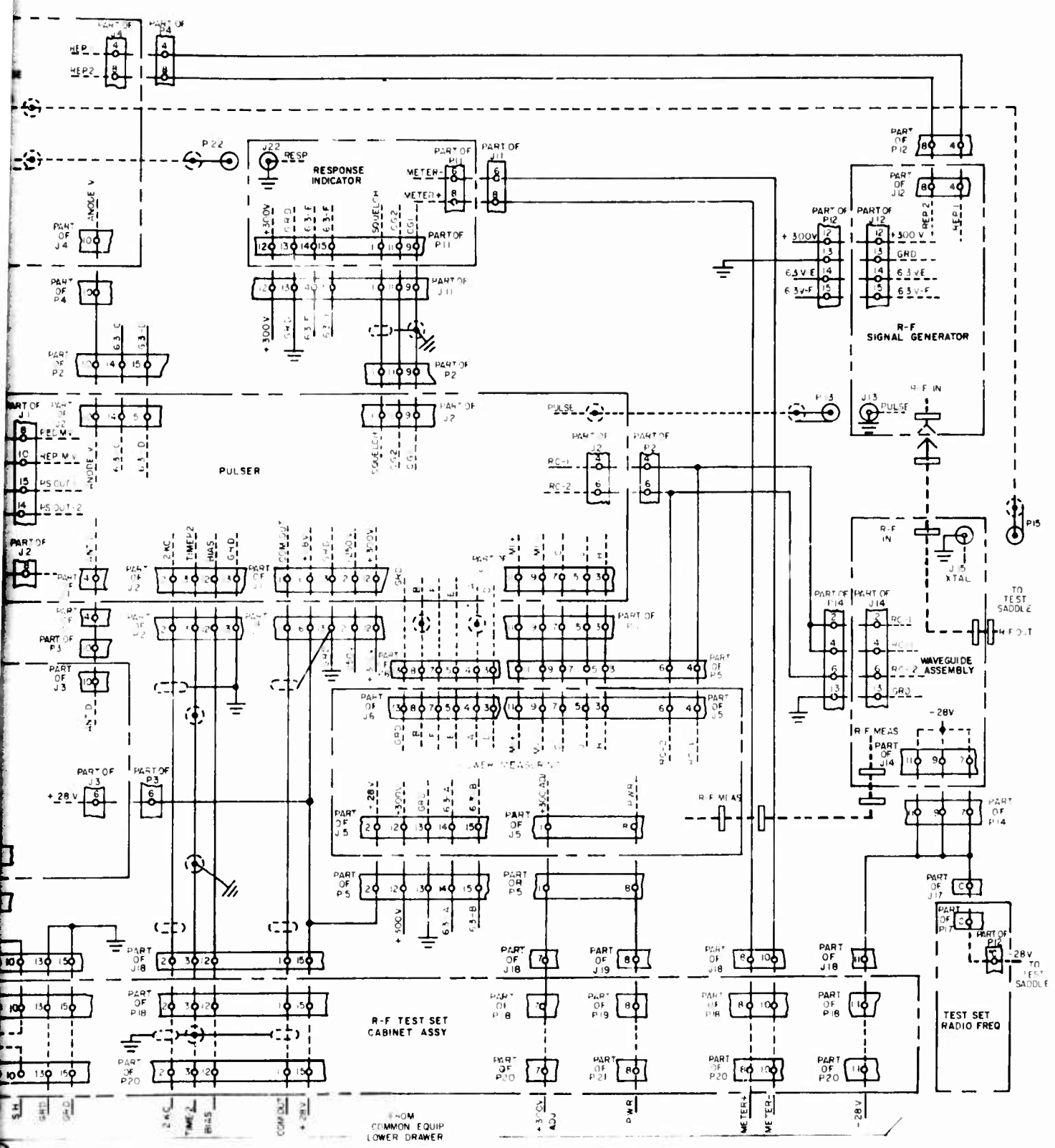
A



R.F. TEST SET CABINET ASSEMBLY

CLASSIFIED

Preceding page blank



FROM COMMON EQUIP LOWER DRAWER

+300V ADJ.

PWR

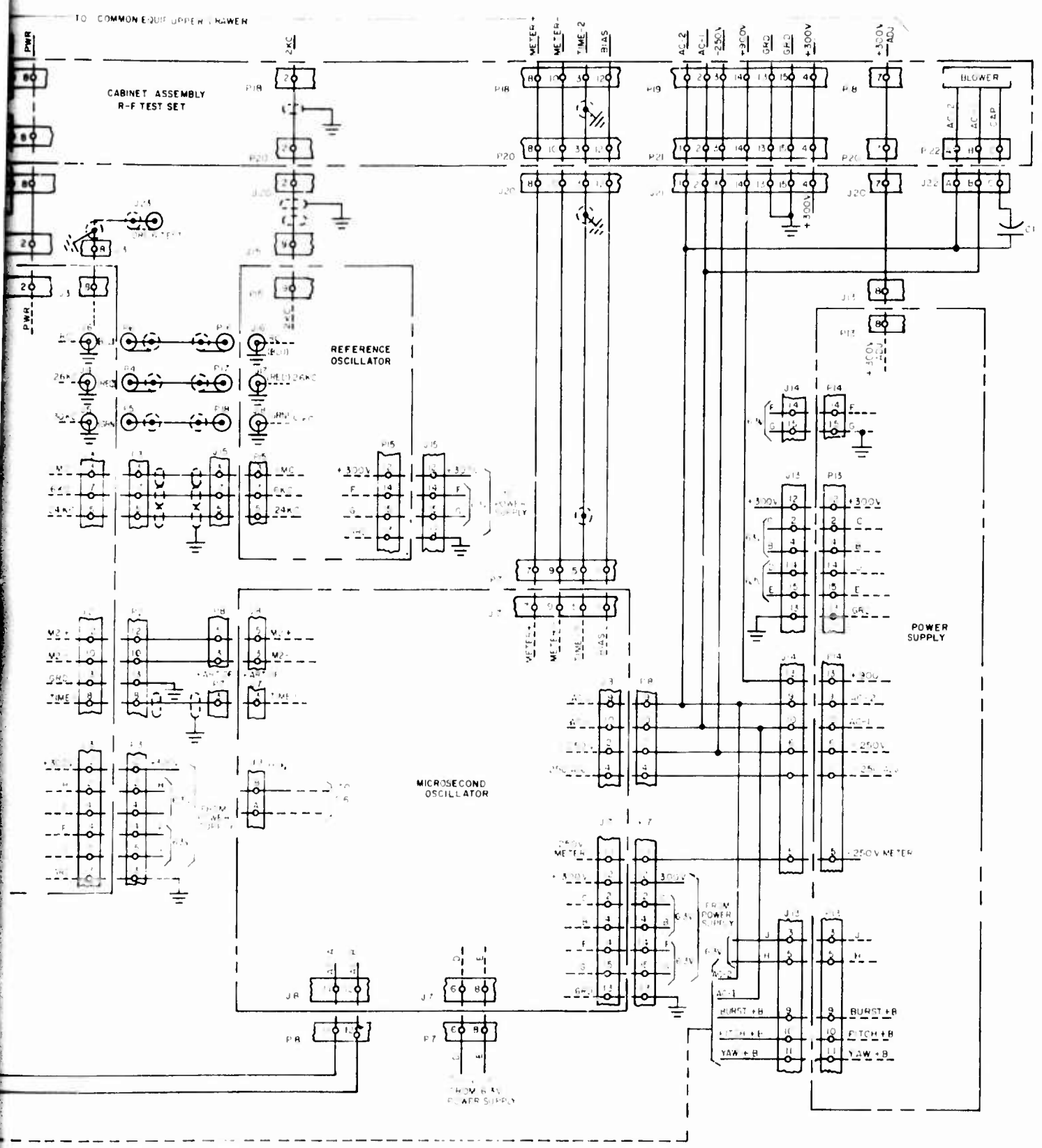
METER+

METER-

-28V

-28V TO TEST SADDLE

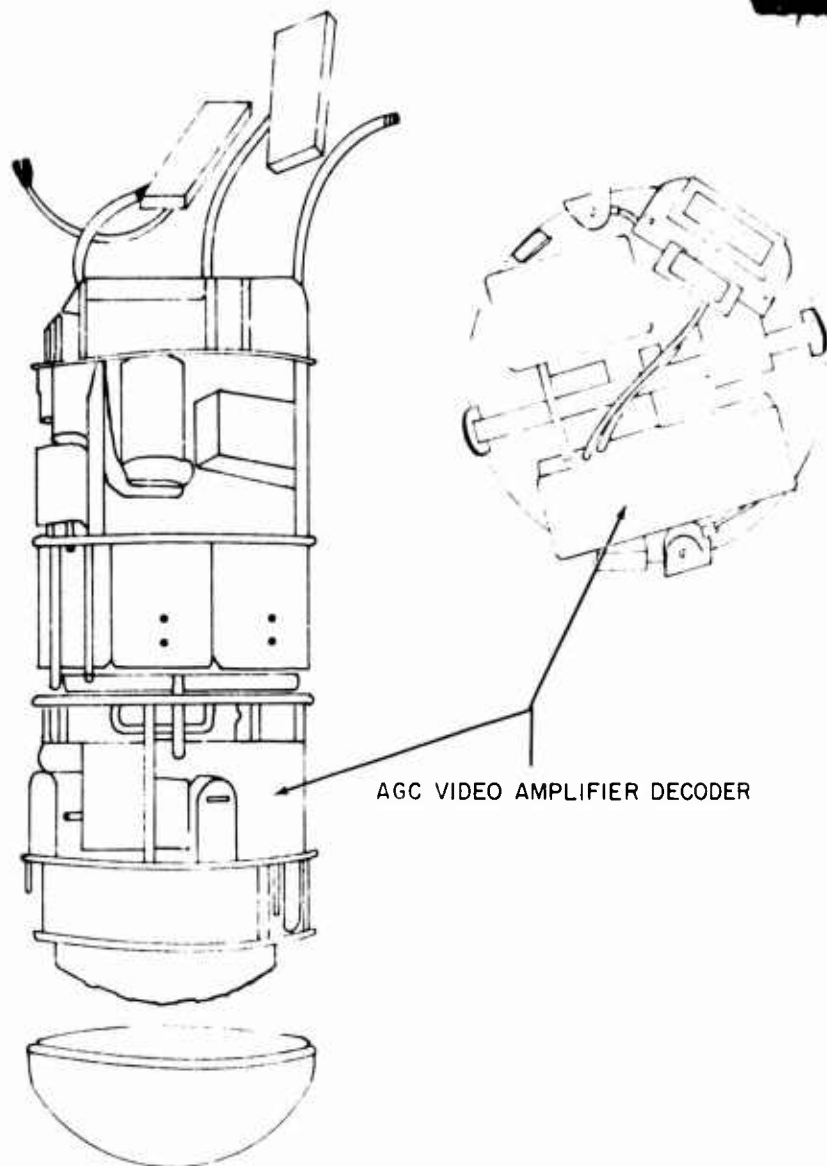
TO TEST SADDLE



R.F. TEST SET LOWER DRAWER

~~CONFIDENTIAL~~
UNCLASSIFIED

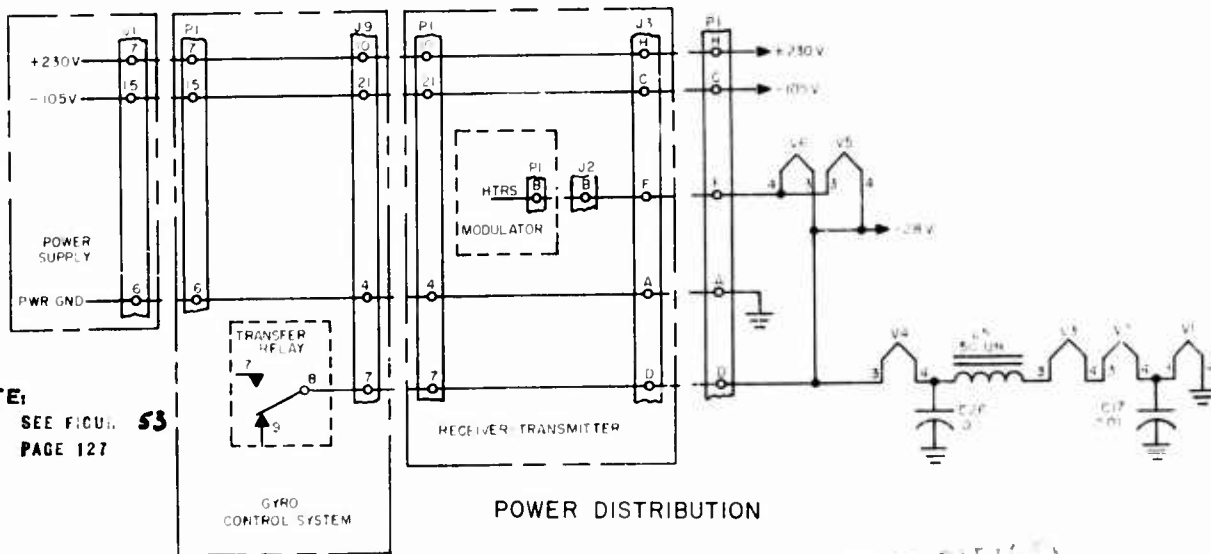
NOTES



AGC VIDEO AMPLIFIER DECODER

MISSILE GUIDANCE SET

NOTE:
SEE FIG. 53
PAGE 127



POWER DISTRIBUTION

AGC VIDEO AMPLIFIER DECODER, NOTES

A

UNCLASSIFIED

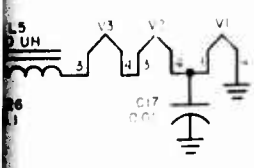
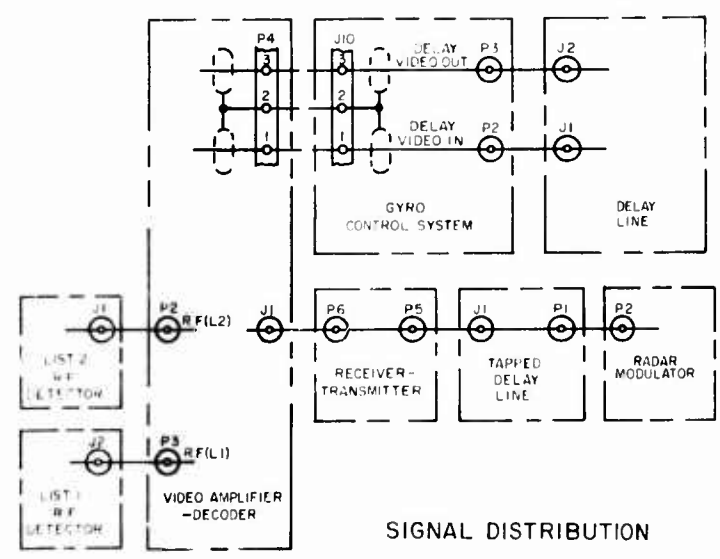


LIST 2
RF
DETECTOR

LIST 1
RF
DETECTOR

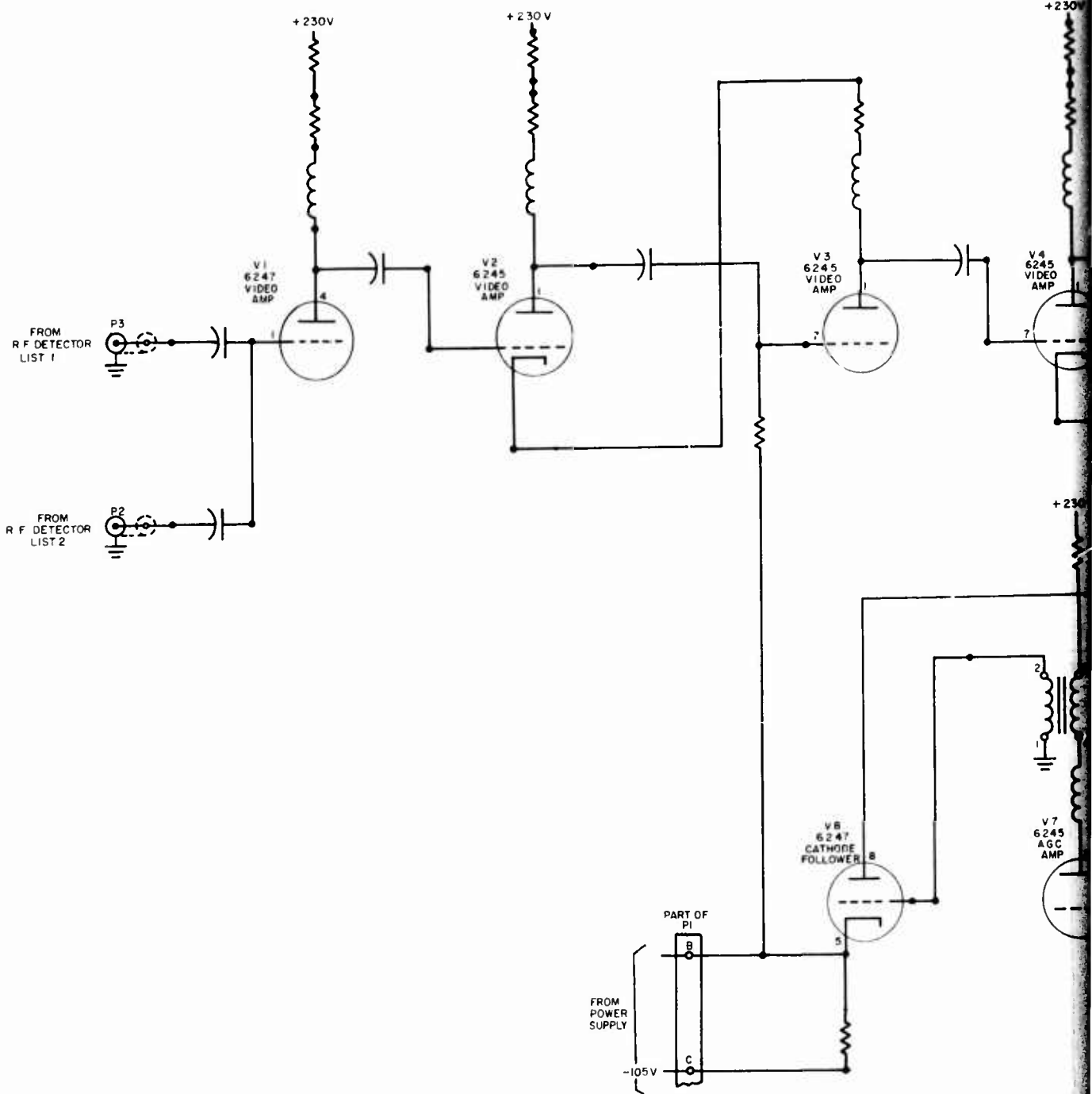
~~IDENTIFIED~~
CLASSIFIED

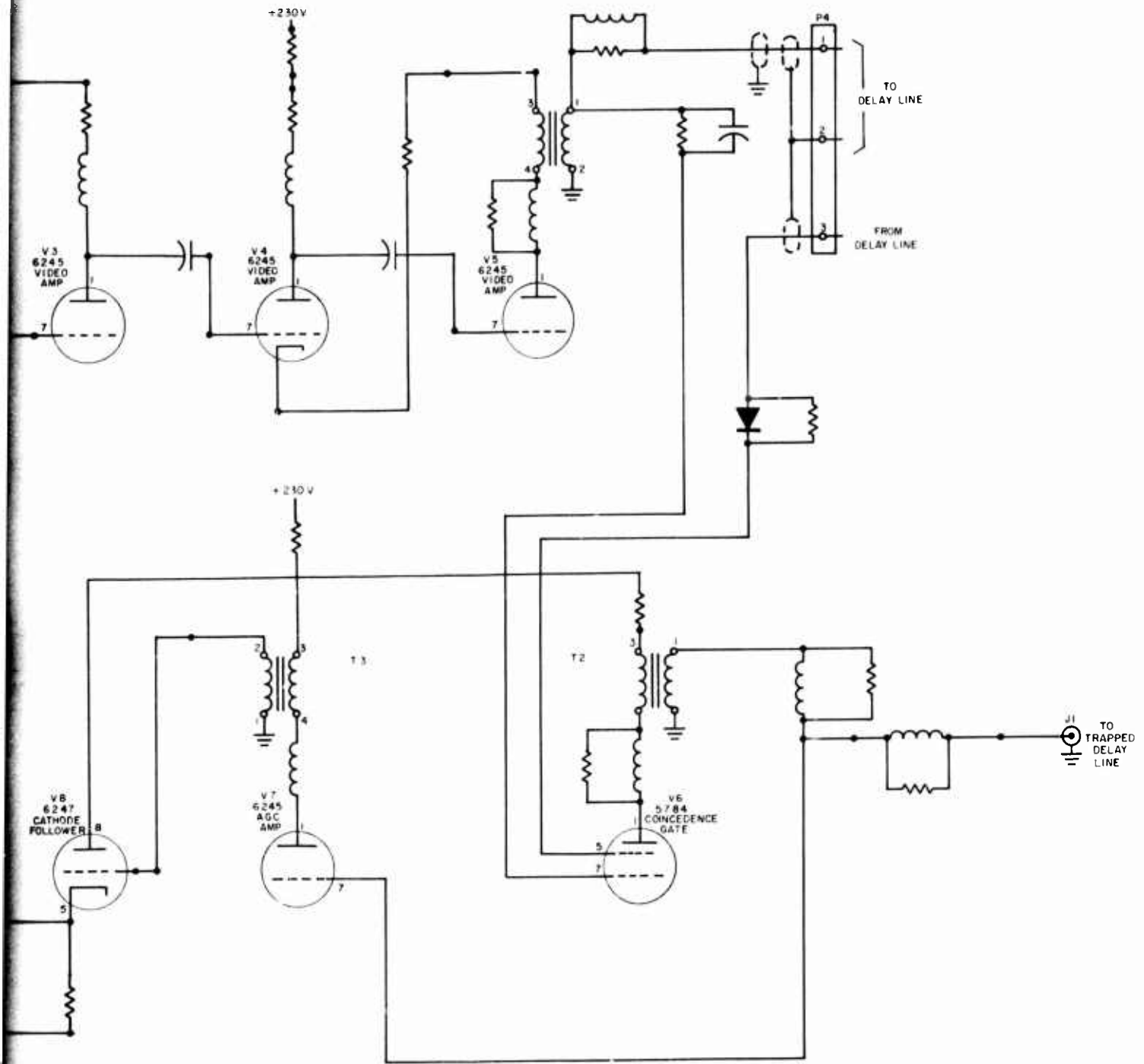
NOTES :



CLASSIFIED

B

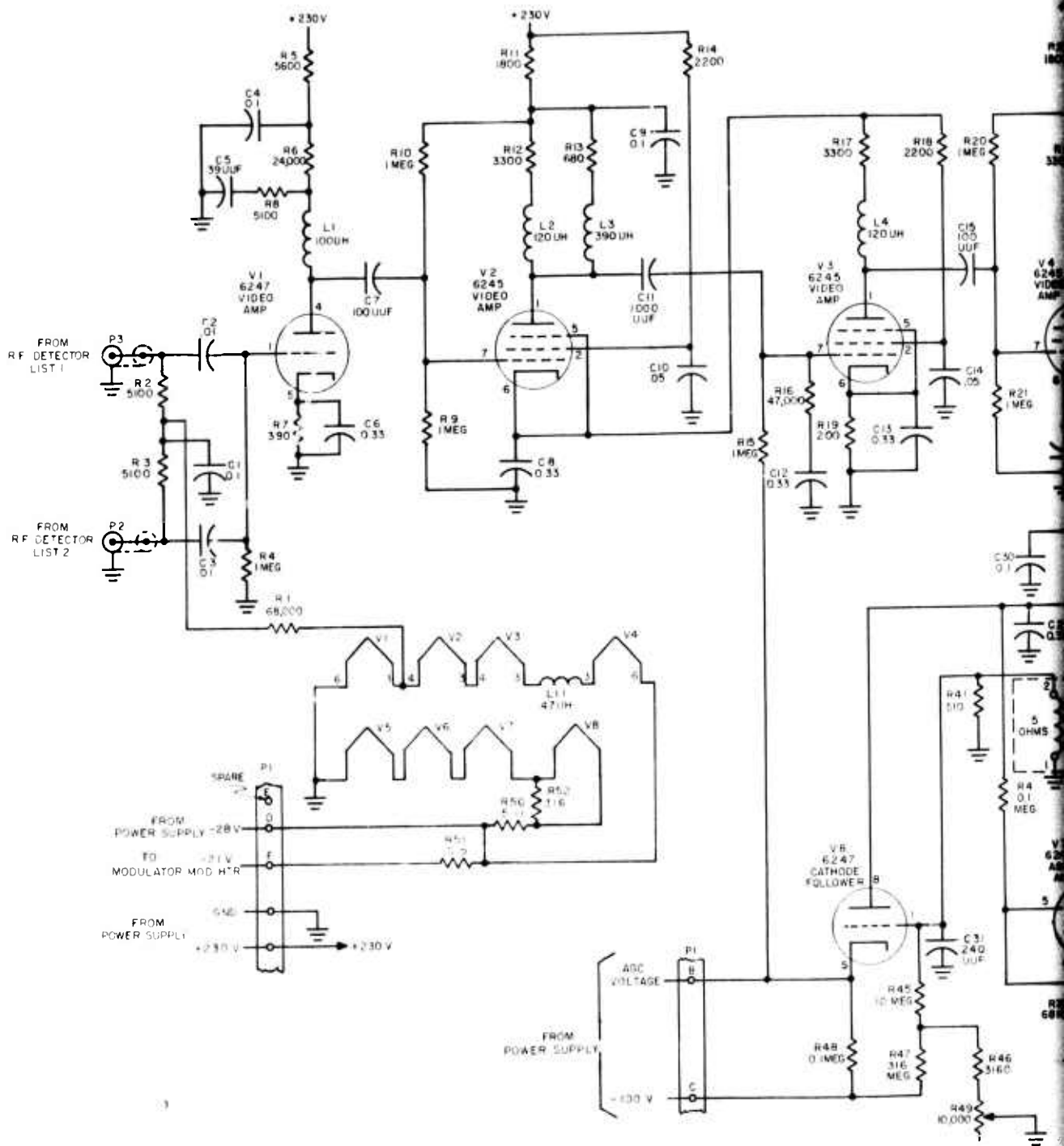




AGC VIDEO AMPLIFIER-DECODER SIMPLIFIED SCHEMATIC

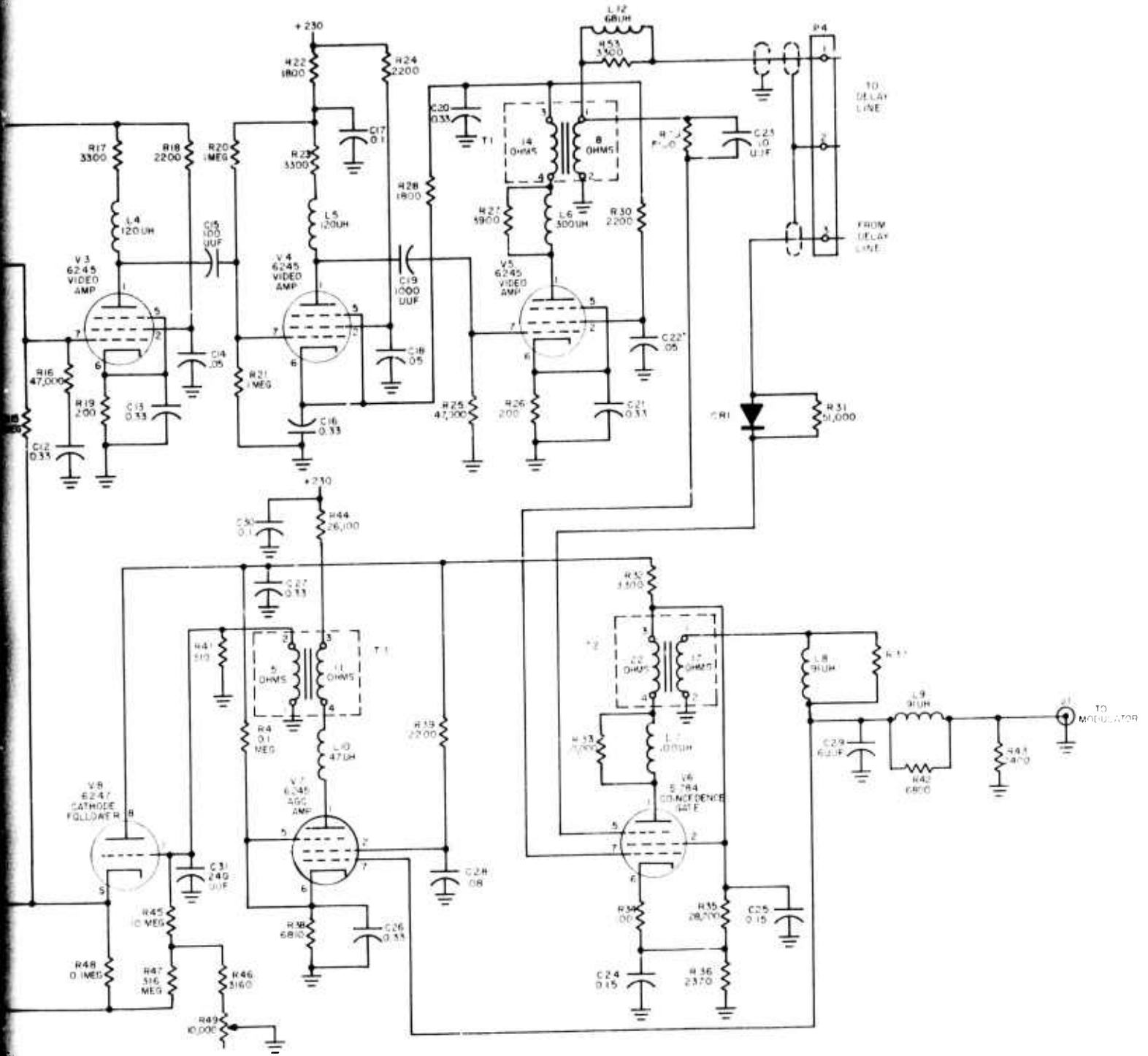
B

UNCLASSIFIED

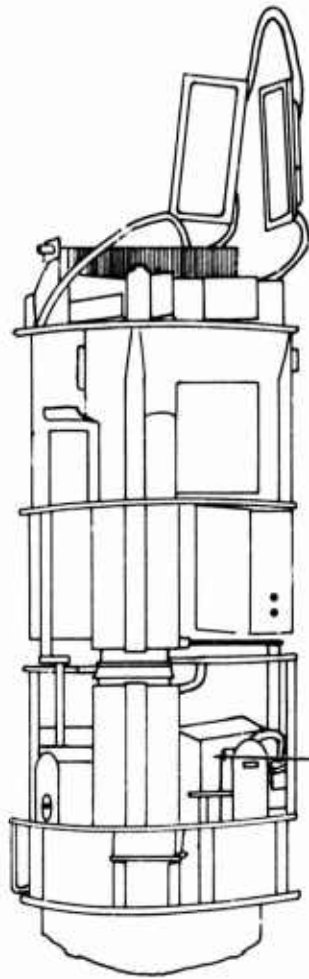


UNCLASSIFIED

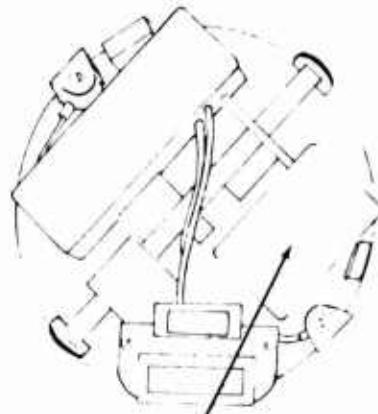
A



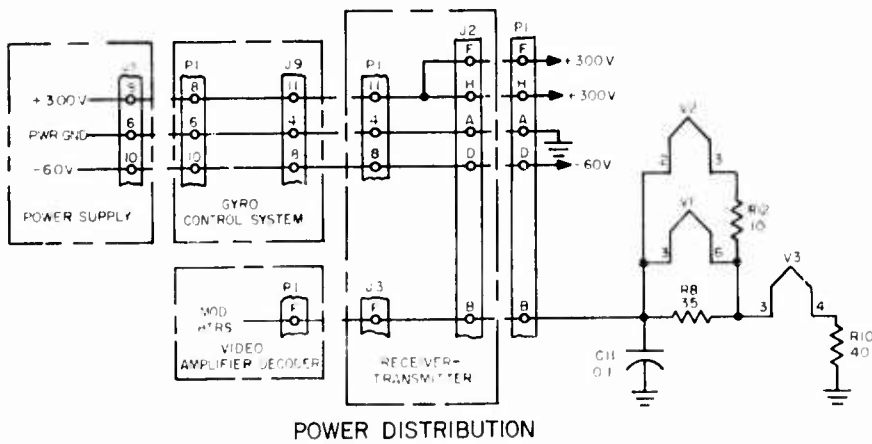
GS-17189 AGC VIDEO AMPLIFIER-DECODER



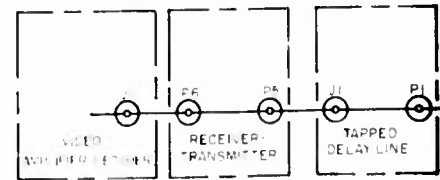
MISSILE GUIDANCE SET



MODULATOR



POWER DISTRIBUTION



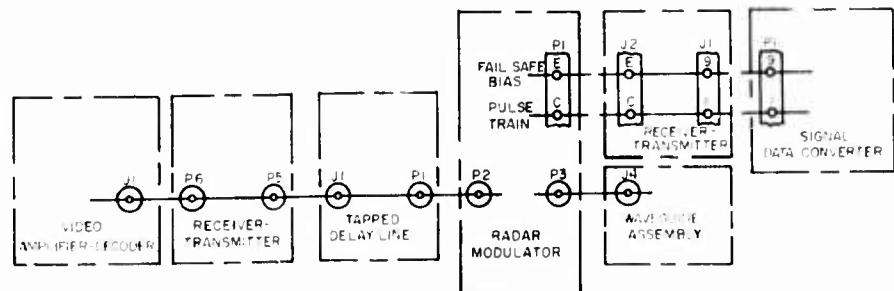
SIGNAL DI

MODULATOR, MISSILE, NOTES

A

UNCLASSIFIED

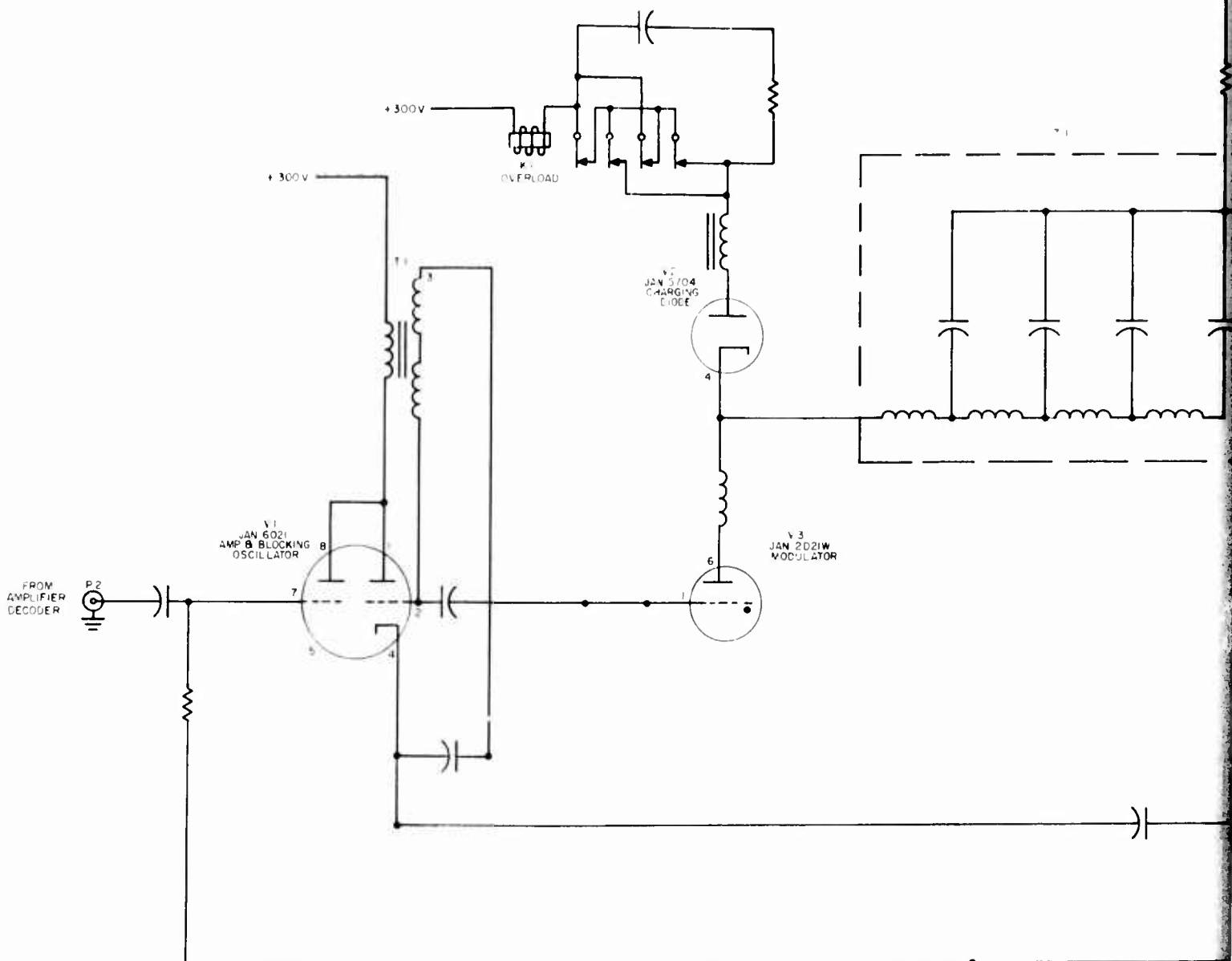
SECRET



SIGNAL DISTRIBUTION

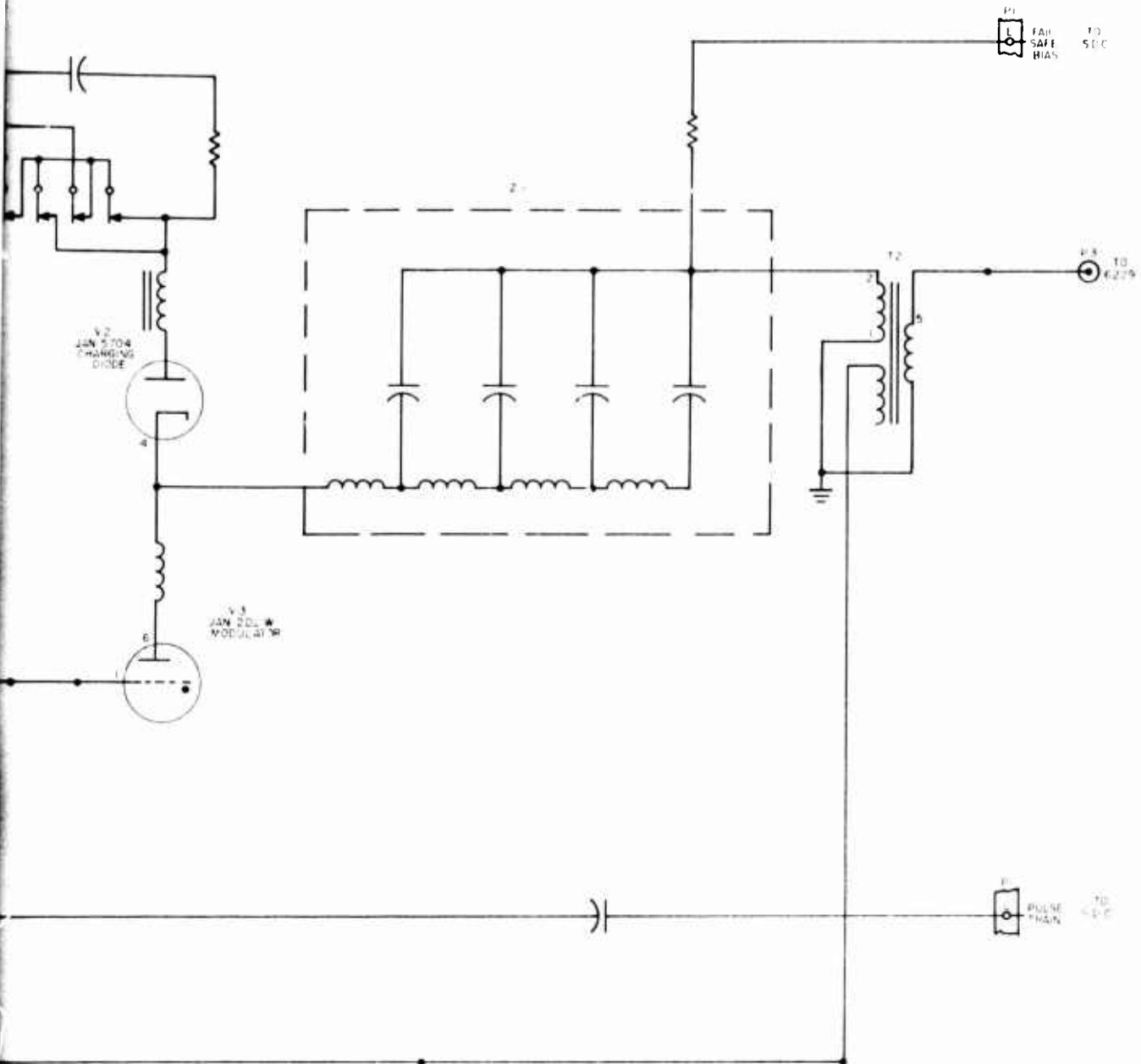
SECRET

UNCLASSIFIED



UNCLASSIFIED

A



MODULATOR SIMPLIFIED SCHEMATIC

0.115V

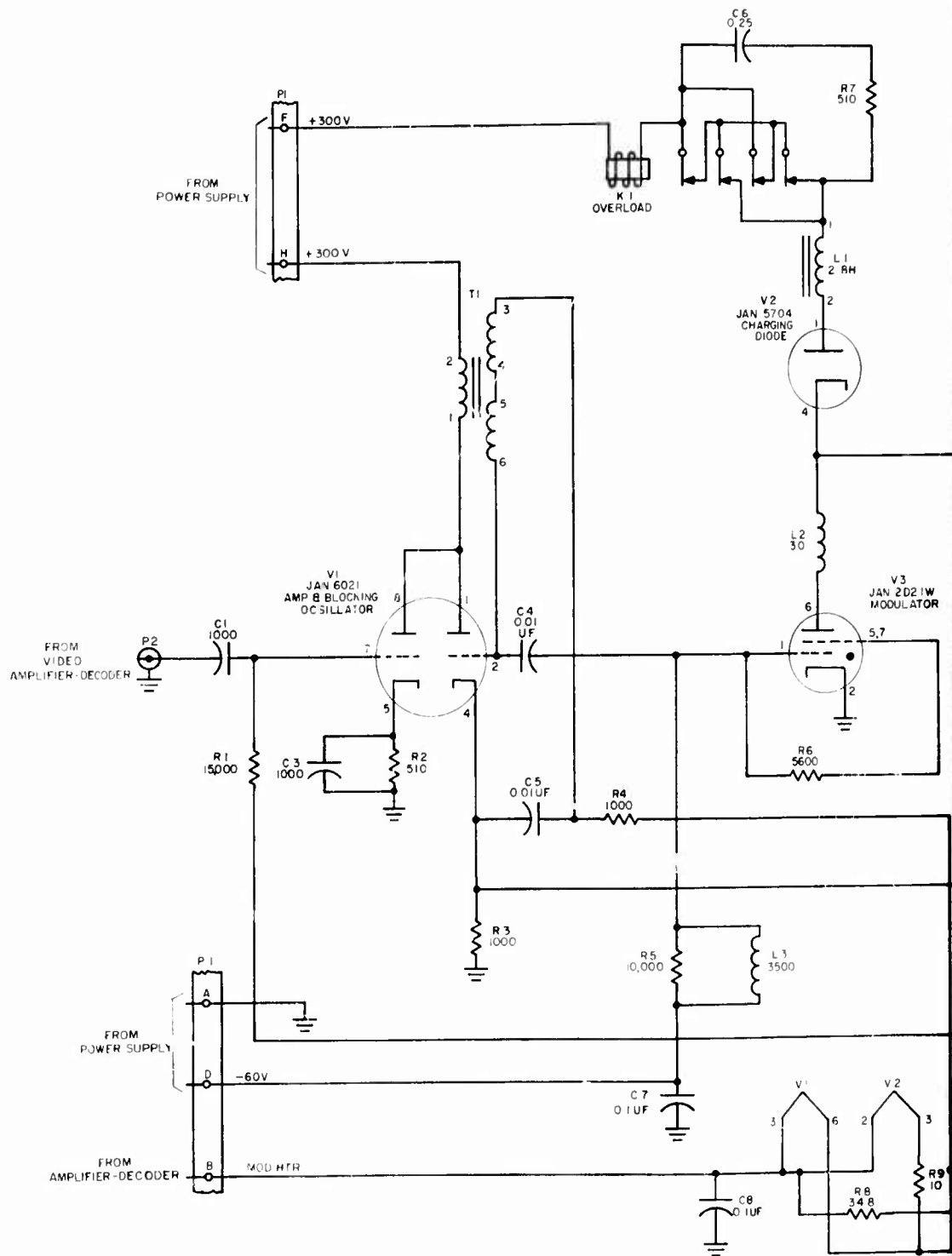


SUPPRESSOR			SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE														

1.00

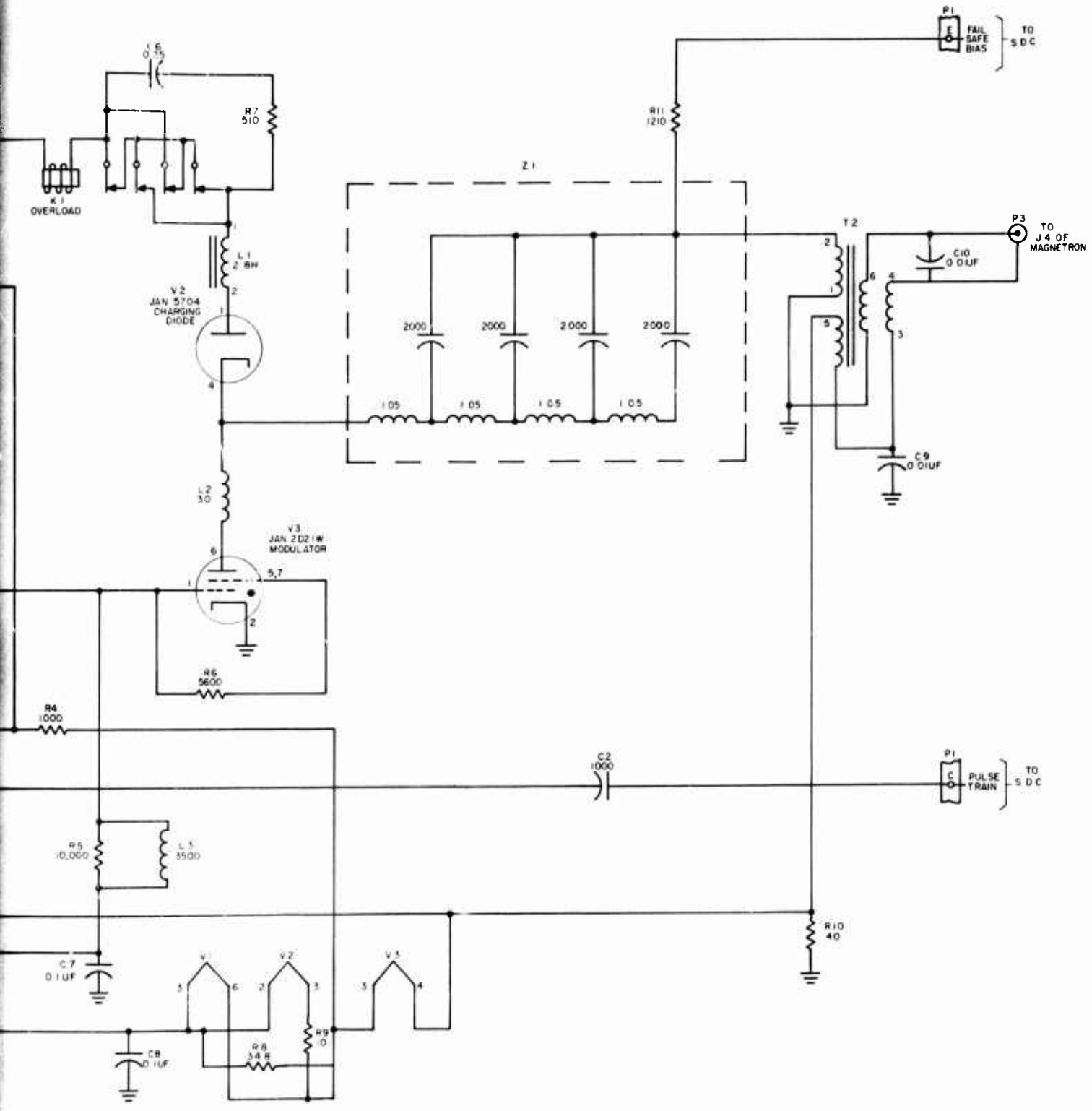


UNCLASSIFIED

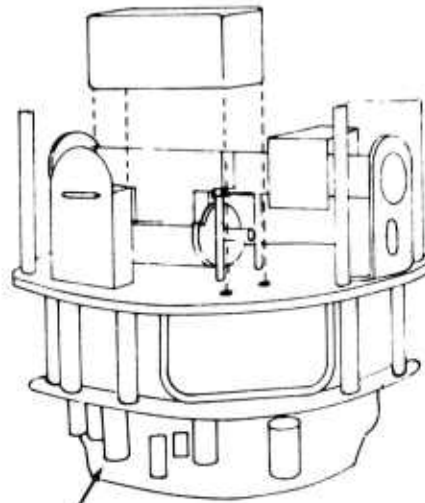
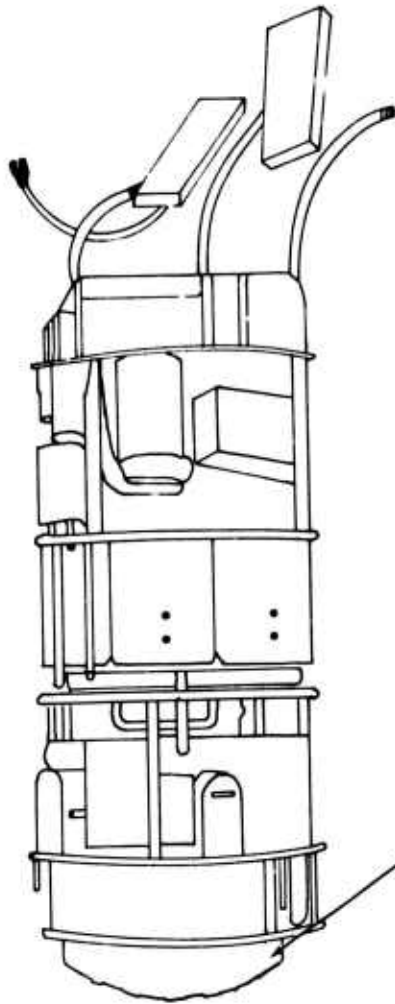


UNCLASSIFIED

A



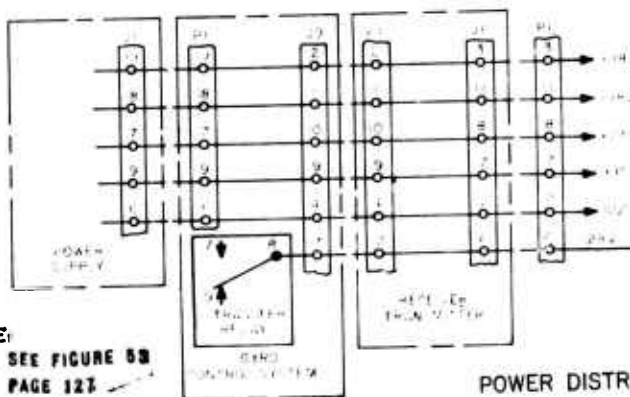
GS-16731 MODULATOR, MISSILE



SIGNAL DATA CONVERTER

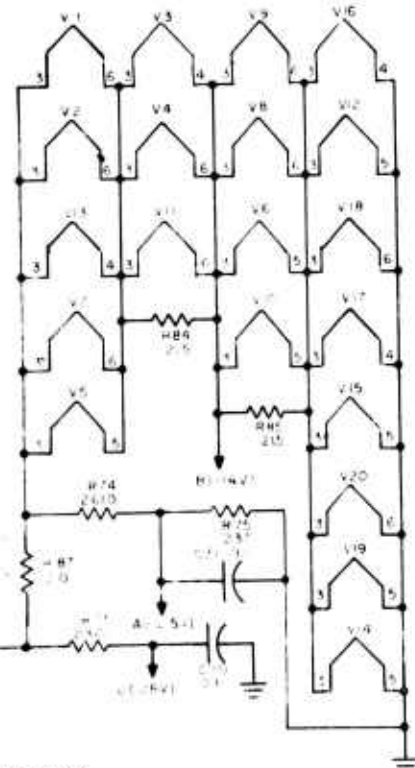


MISSILE GUIDANCE SET

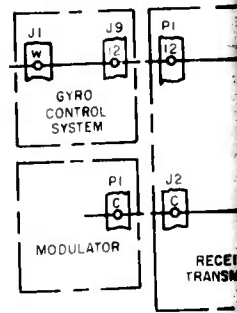


POWER DISTRIBUTION

NOTE: SEE FIGURE 58 PAGE 123



USED IN LAUNCHER AREA ONLY



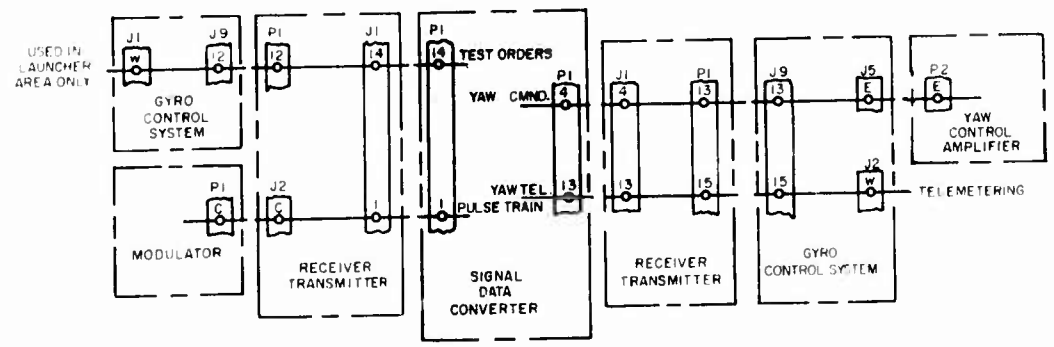
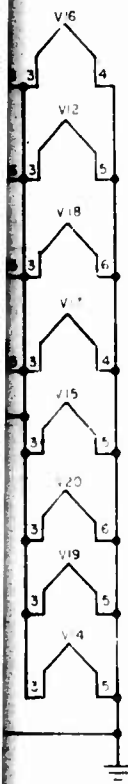
SIGNAL DATA CONVERTER, NOTES (YAW)

A

UNCLASSIFIED

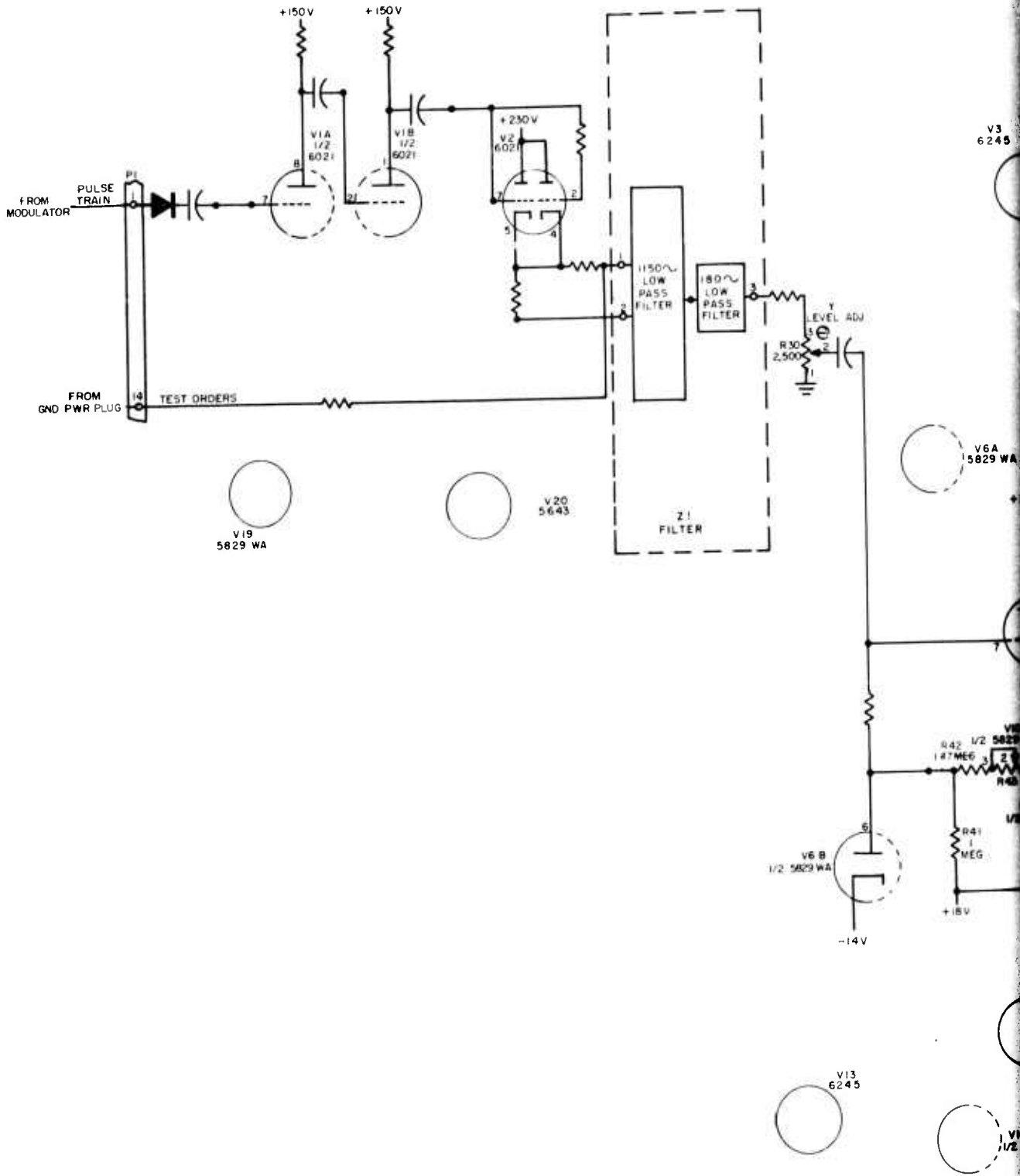
SECRET

TER



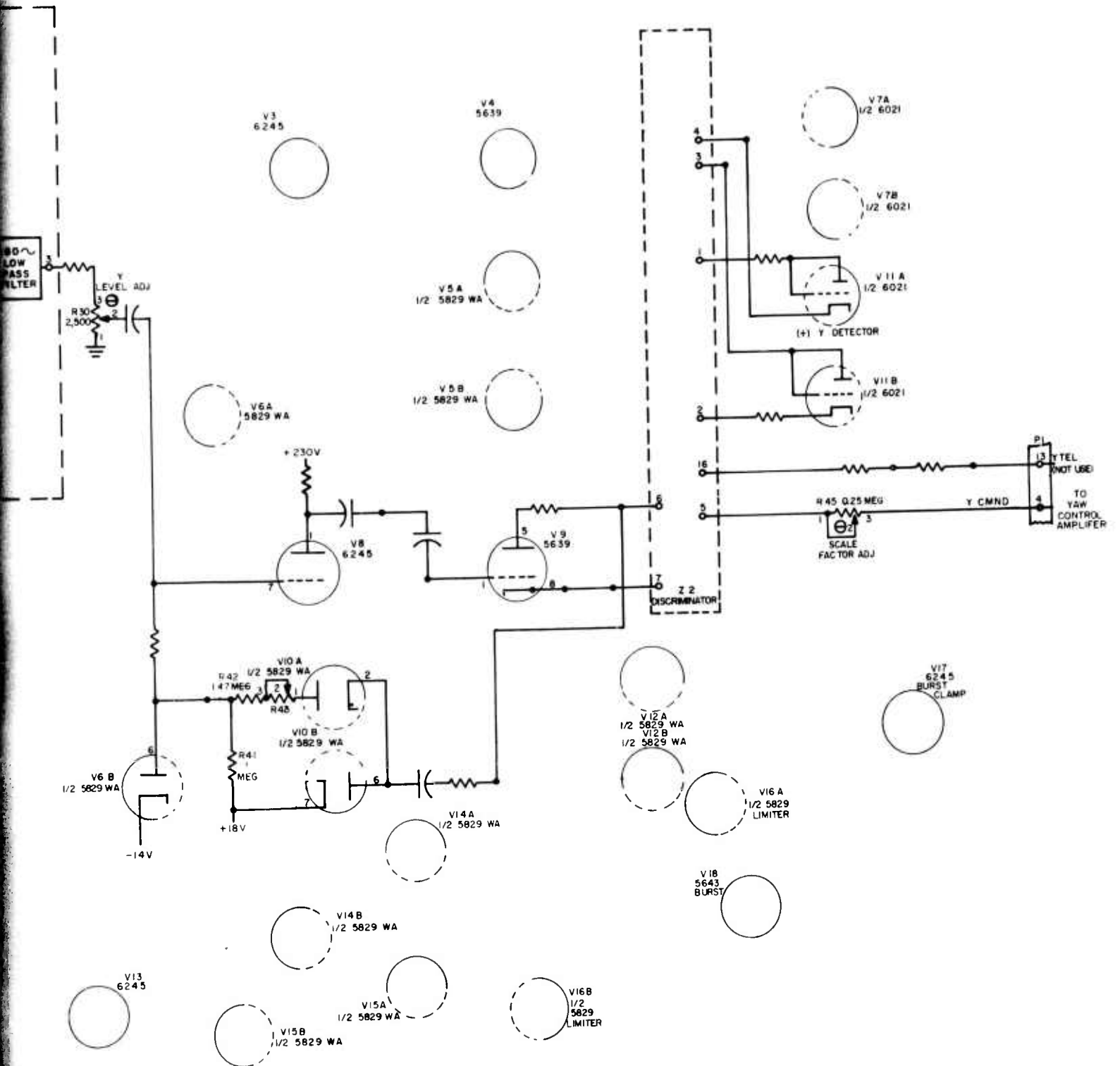
SIGNAL DISTRIBUTION

SECRET



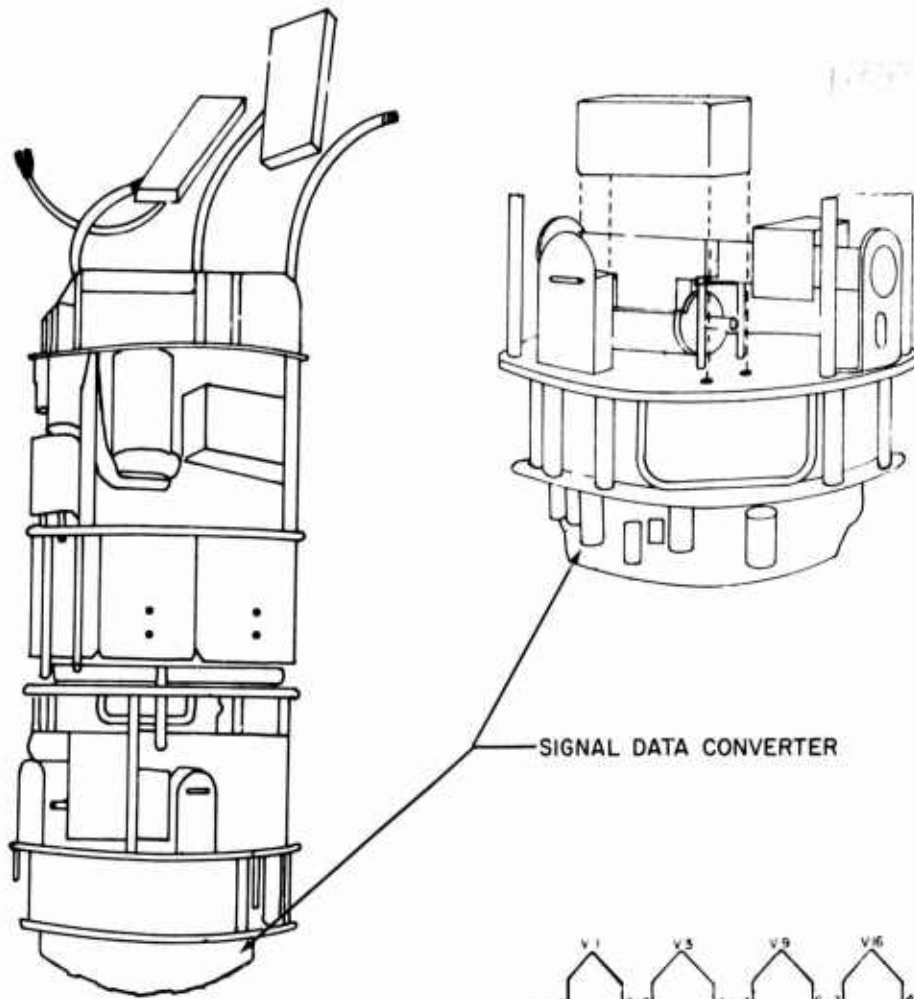
UNCLASSIFIED

A

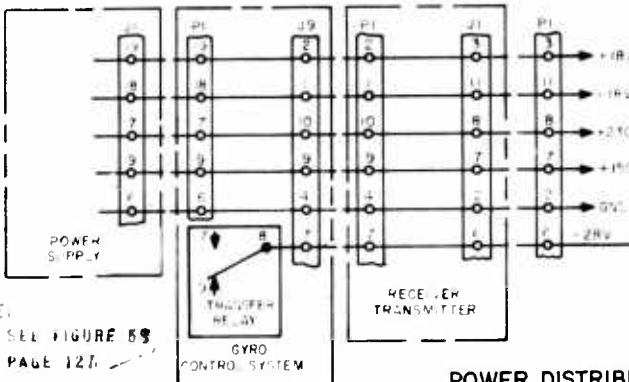
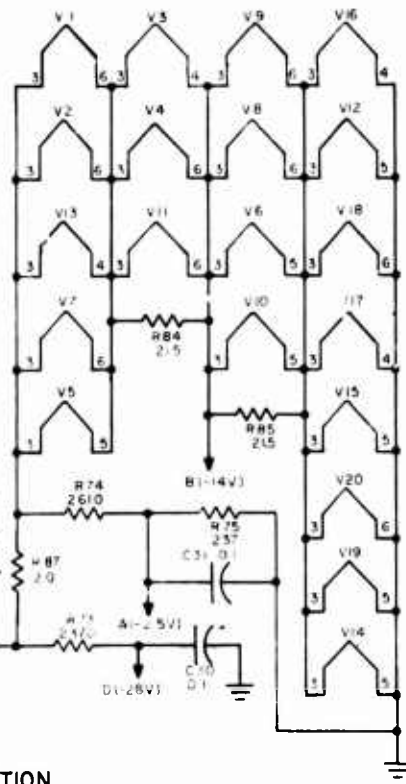


SIGNAL DATA CONVERTER, SIMPLIFIED SCHEMATIC (YAW)

B



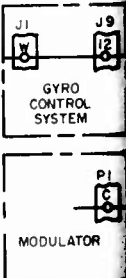
MISSILE GUIDANCE SET



POWER DISTRIBUTION

NOTE:
SEE FIGURE 89
PAGE 127

USED IN
LAUNCHER
AREA ONLY



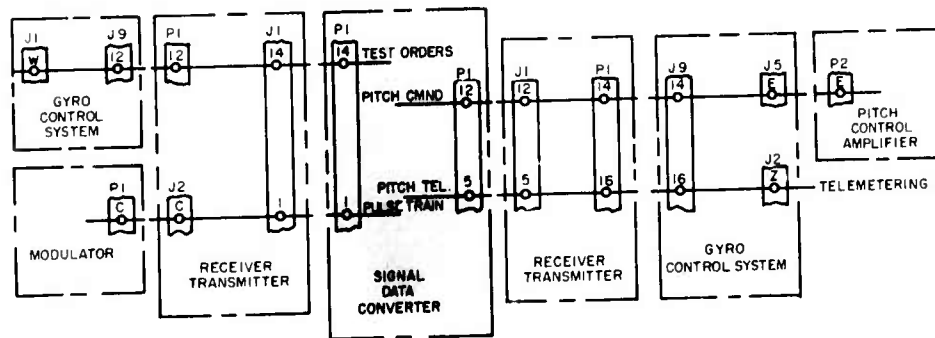
SIGNAL DATA CONVERTER, NOTES (PITCH)

A

UNCLASSIFIED

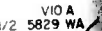
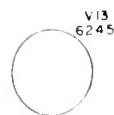
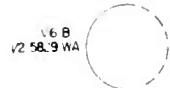
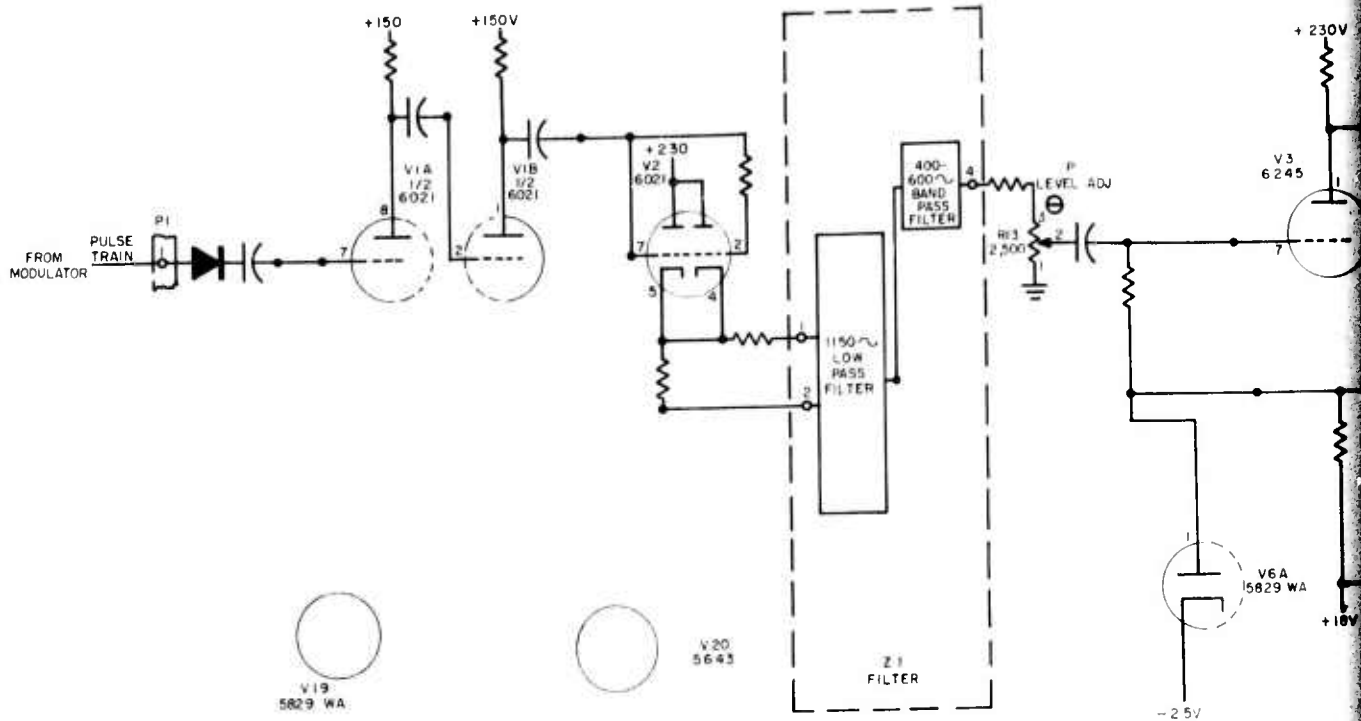
CONFIDENTIAL

USED IN
LAUNCHER
AREA ONLY

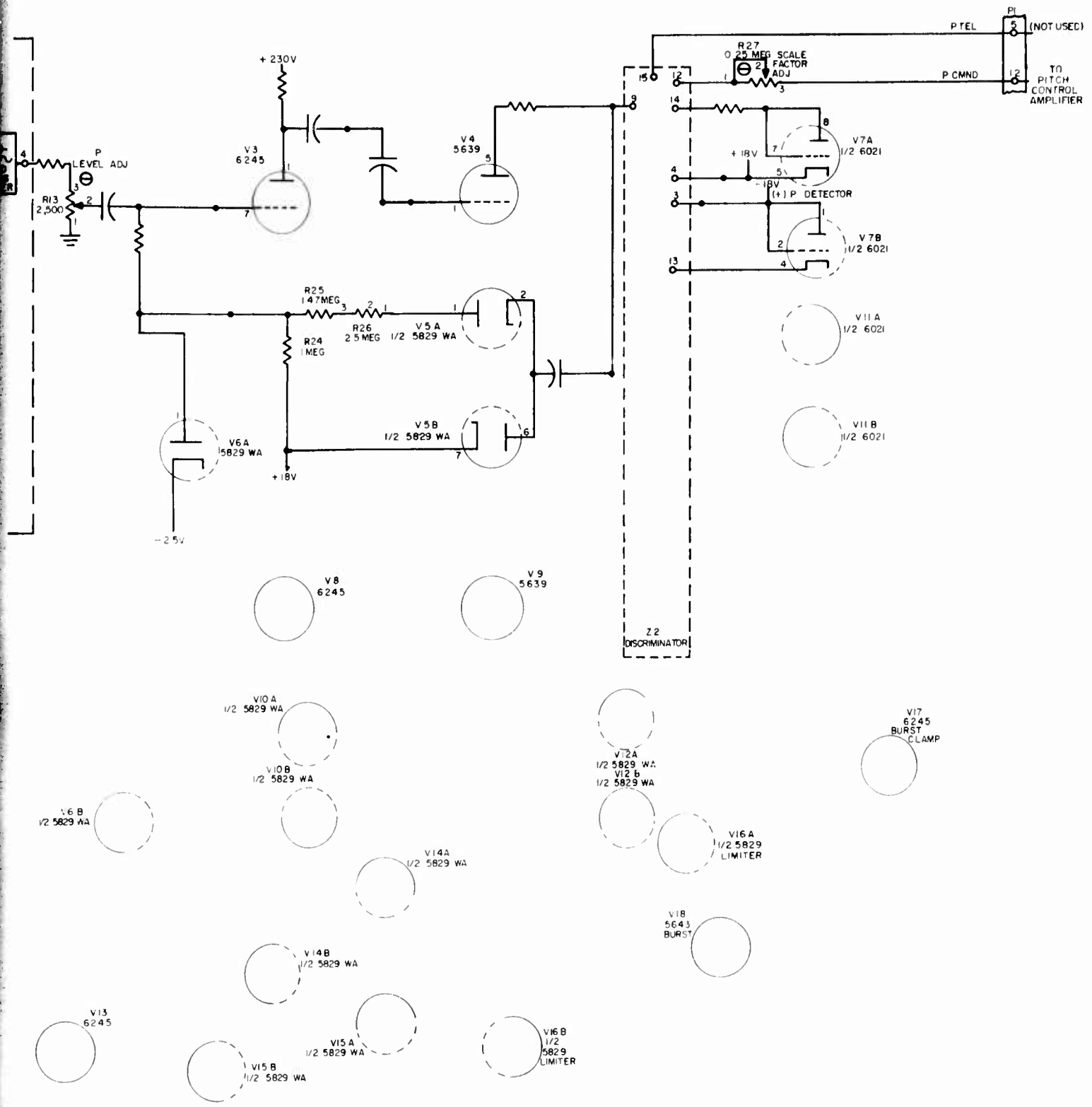


SIGNAL DISTRIBUTION

B

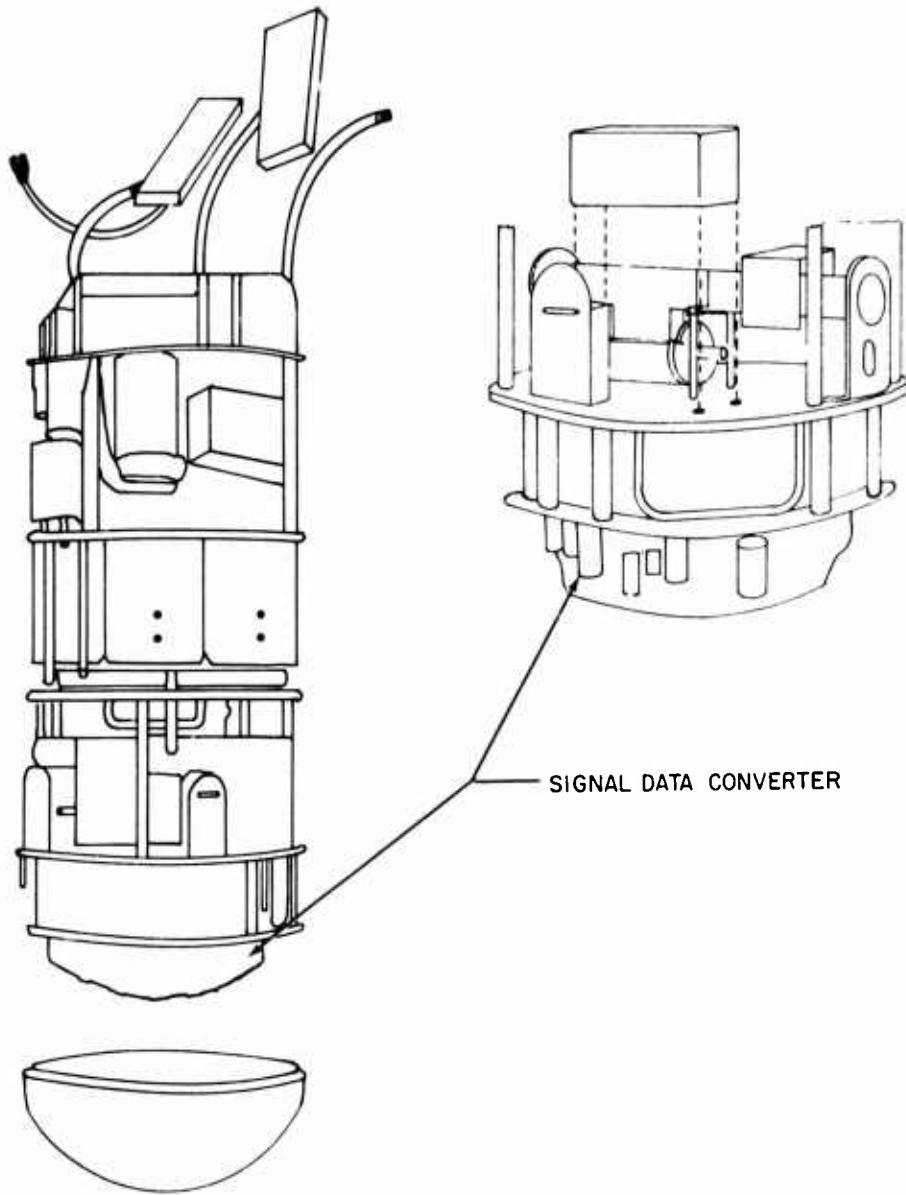


A

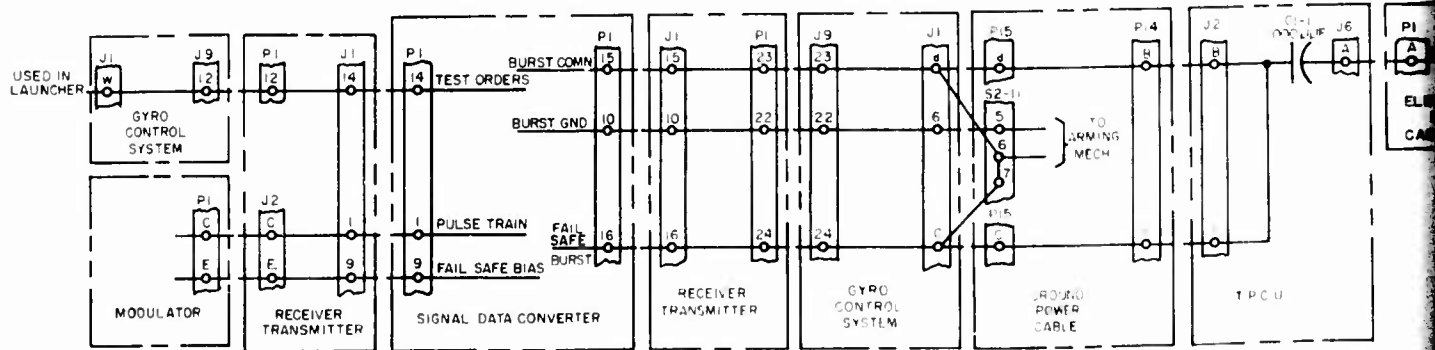
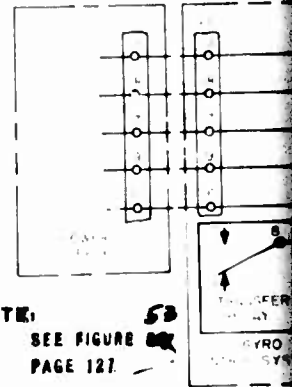


SIGNAL DATA CONVERTER, SIMPLIFIED SCHEMATIC (PITCH)

B



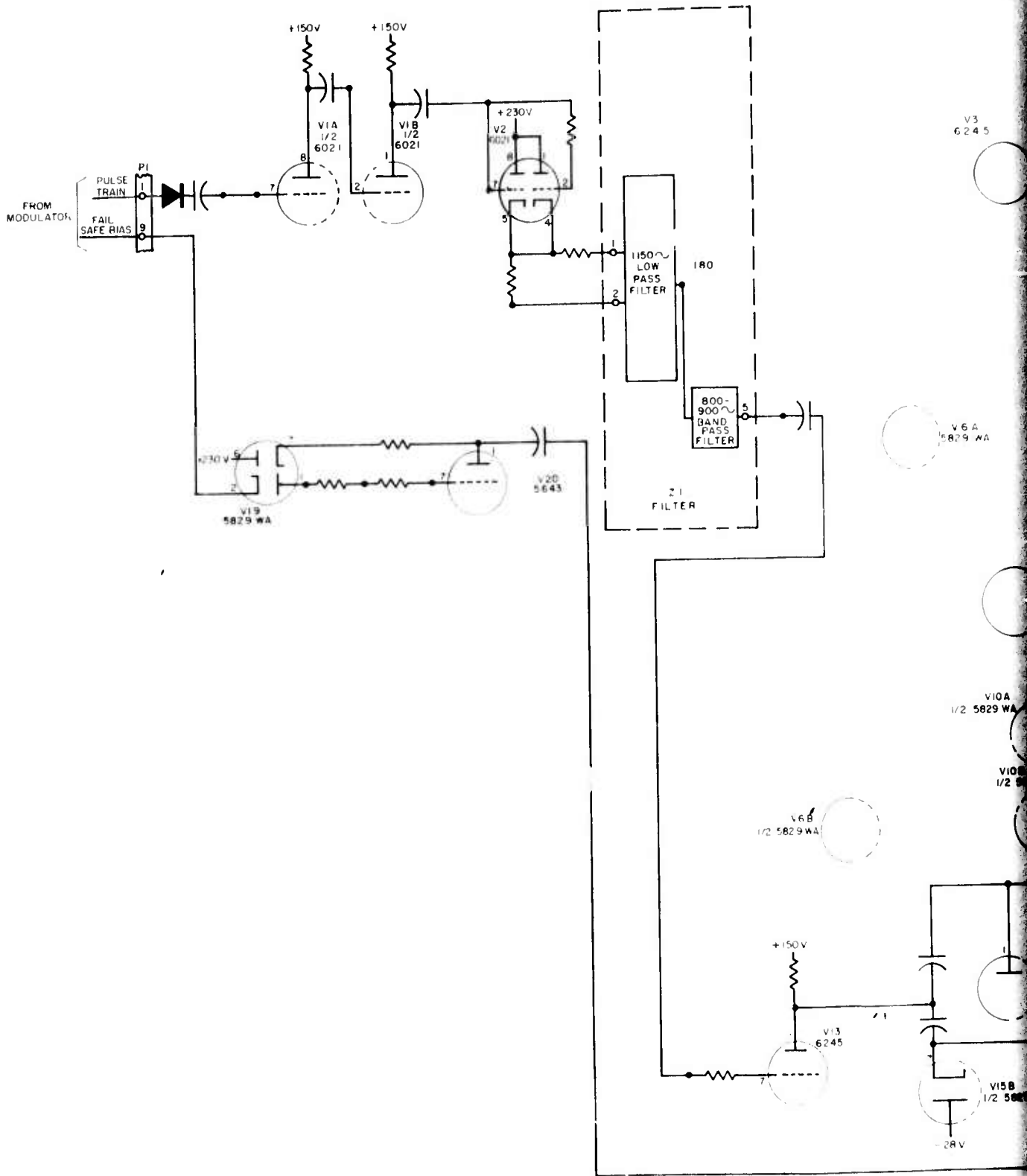
MISSILE GUIDANCE SET



SIGNAL DISTRIBUTION

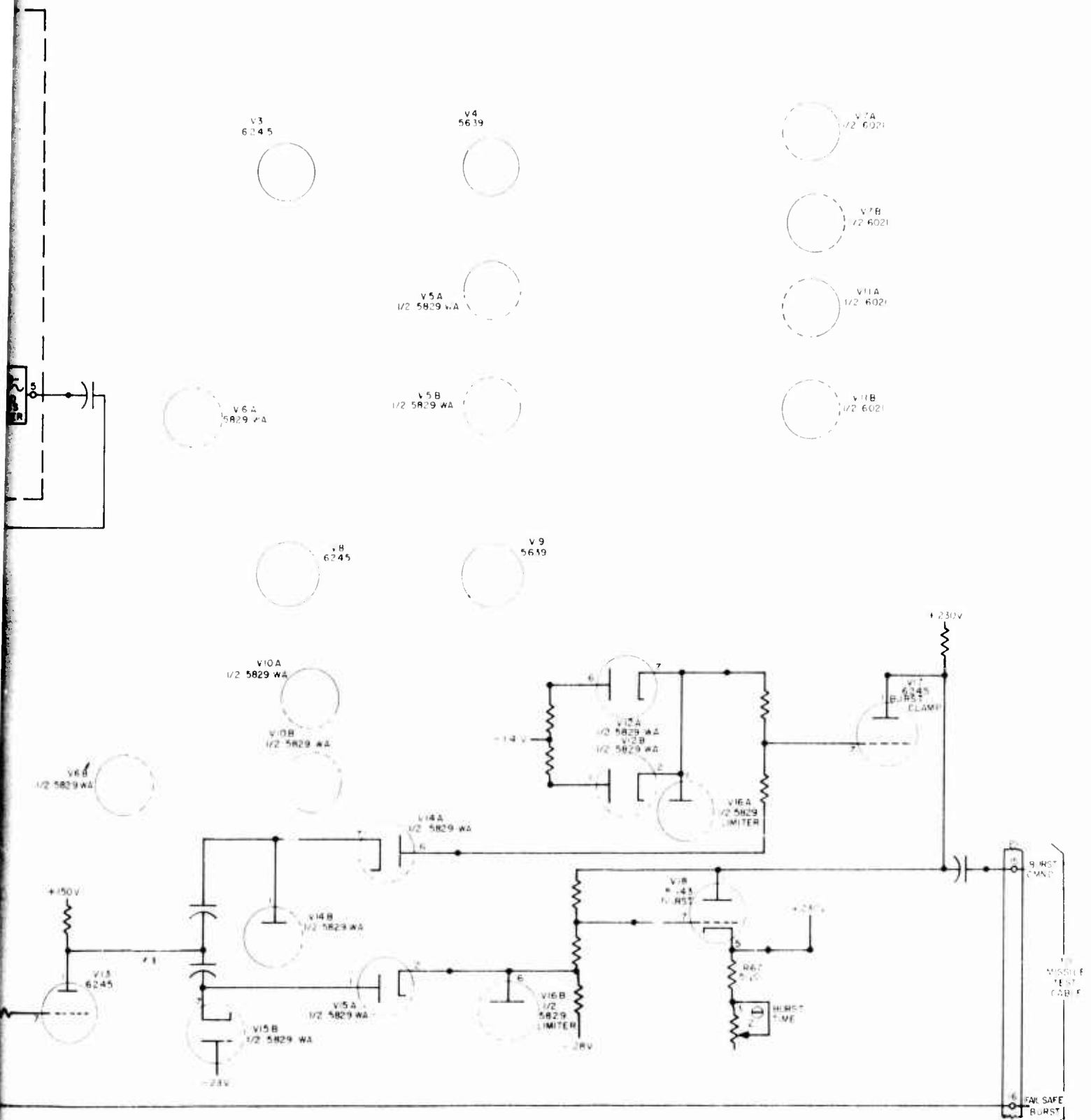
SIGNAL DATA CONVERTER, NOTES (BURST)

A



CONFIDENTIAL

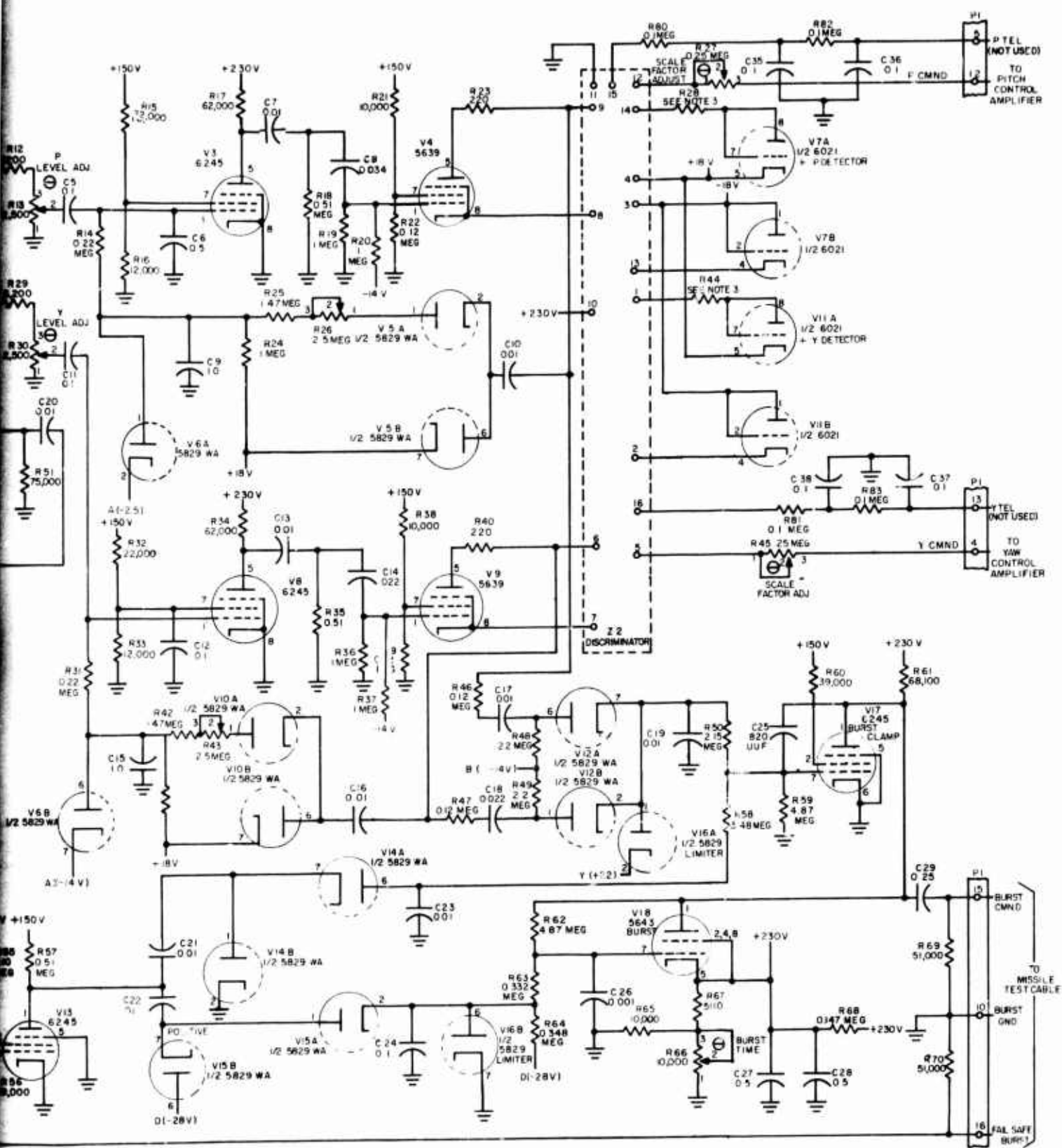
A



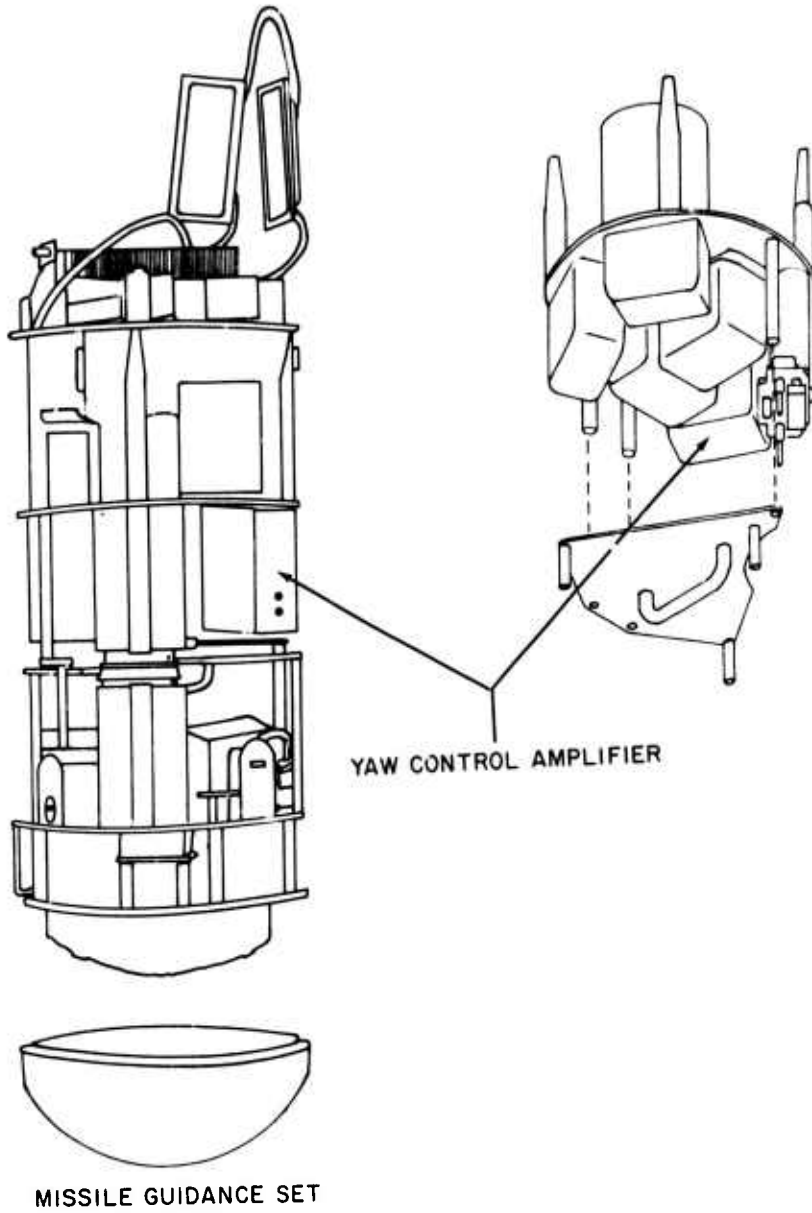
SIGNAL DATA CONVERTER, SIMPLIFIED SCHEMATIC (BURST)

CLASSIFIED

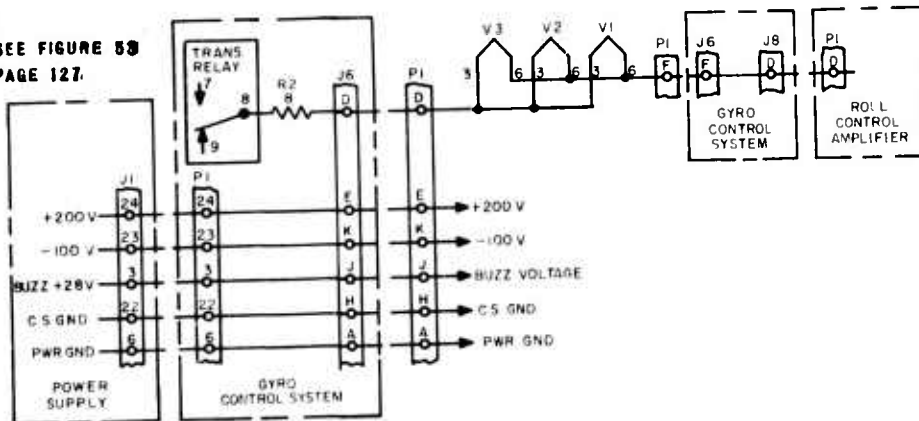
SUPPRESSOR			SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE														



GS-16733 SIGNAL DATA CONVERTER

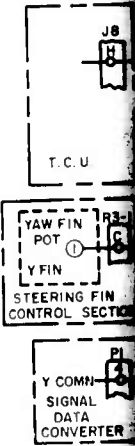


NOTE:
SEE FIGURE 53
PAGE 127.

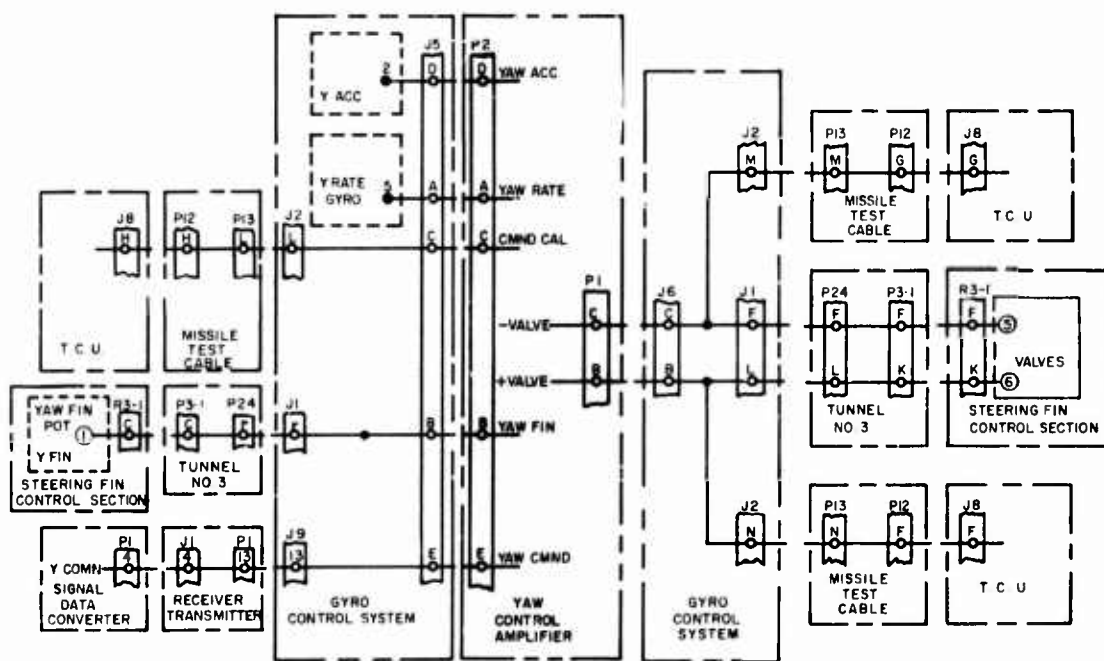


YAW CONTROL AMPLIFIER, NOTES

A



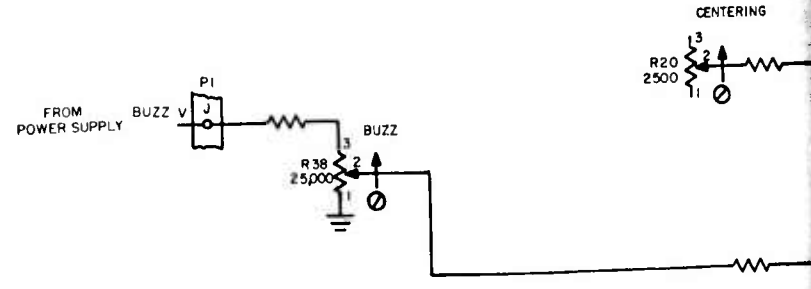
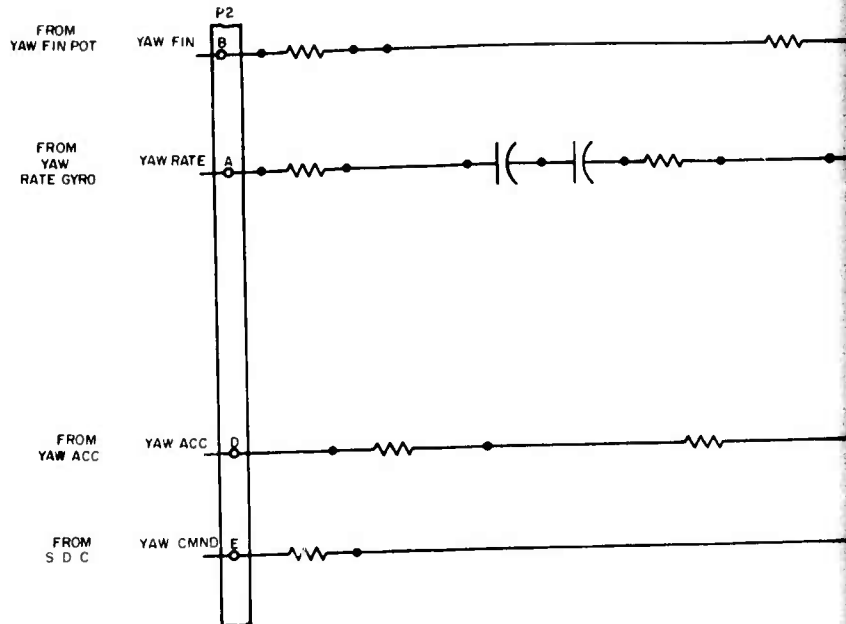
UNCLASSIFIED



SIGNAL DISTRIBUTION

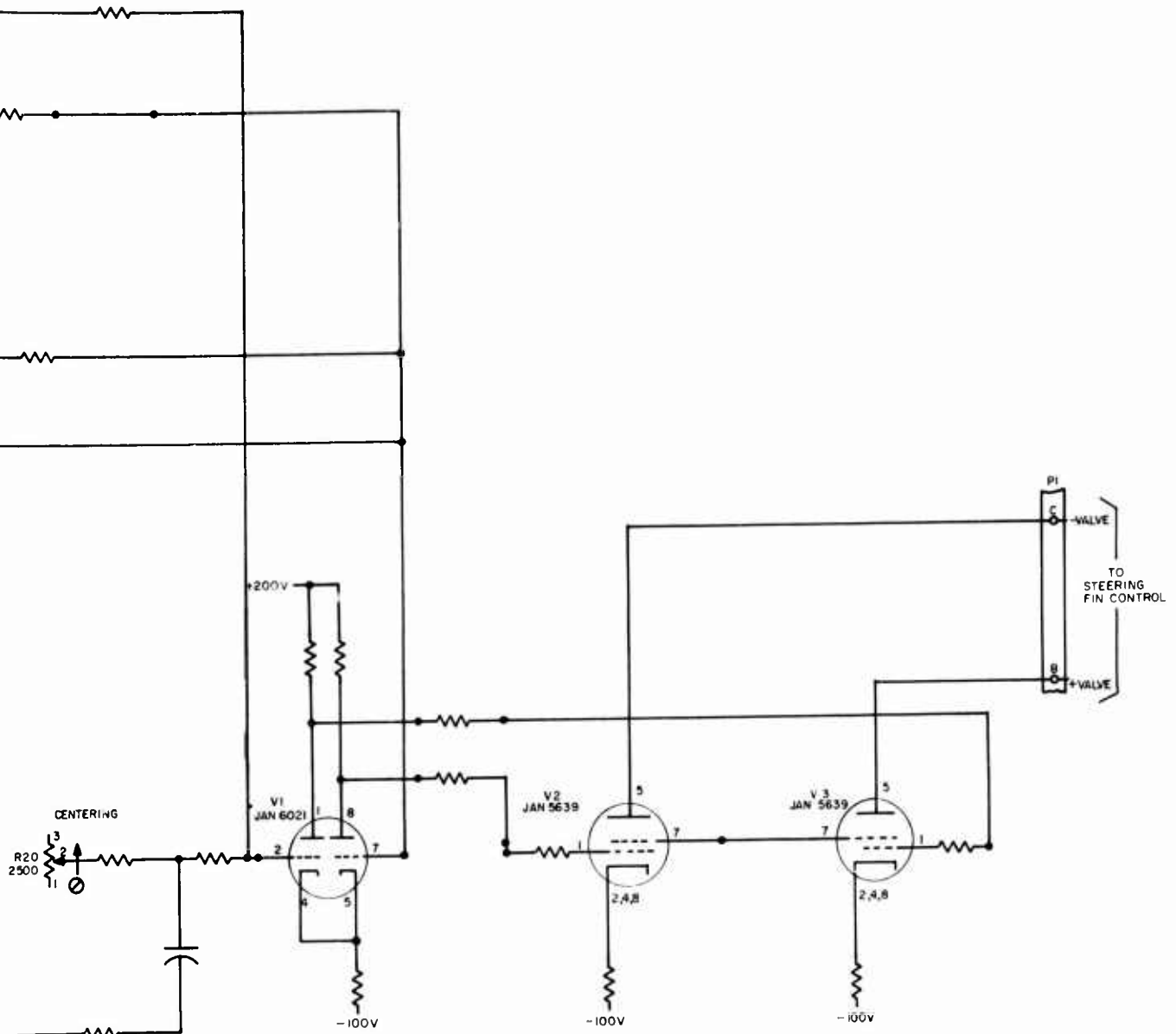
B

~~CONFIDENTIAL~~ UNCLASSIFIED



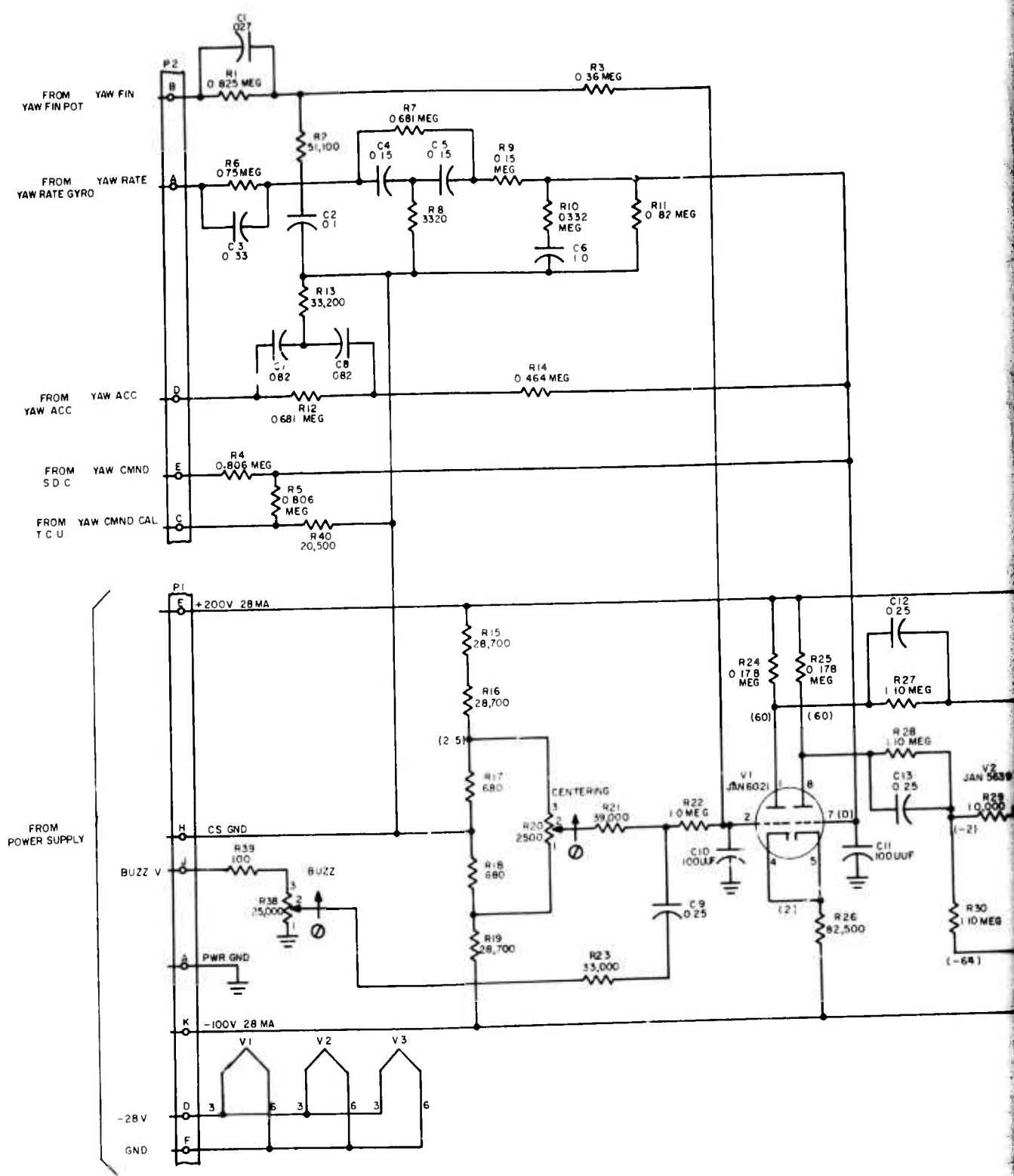
~~CONFIDENTIAL~~

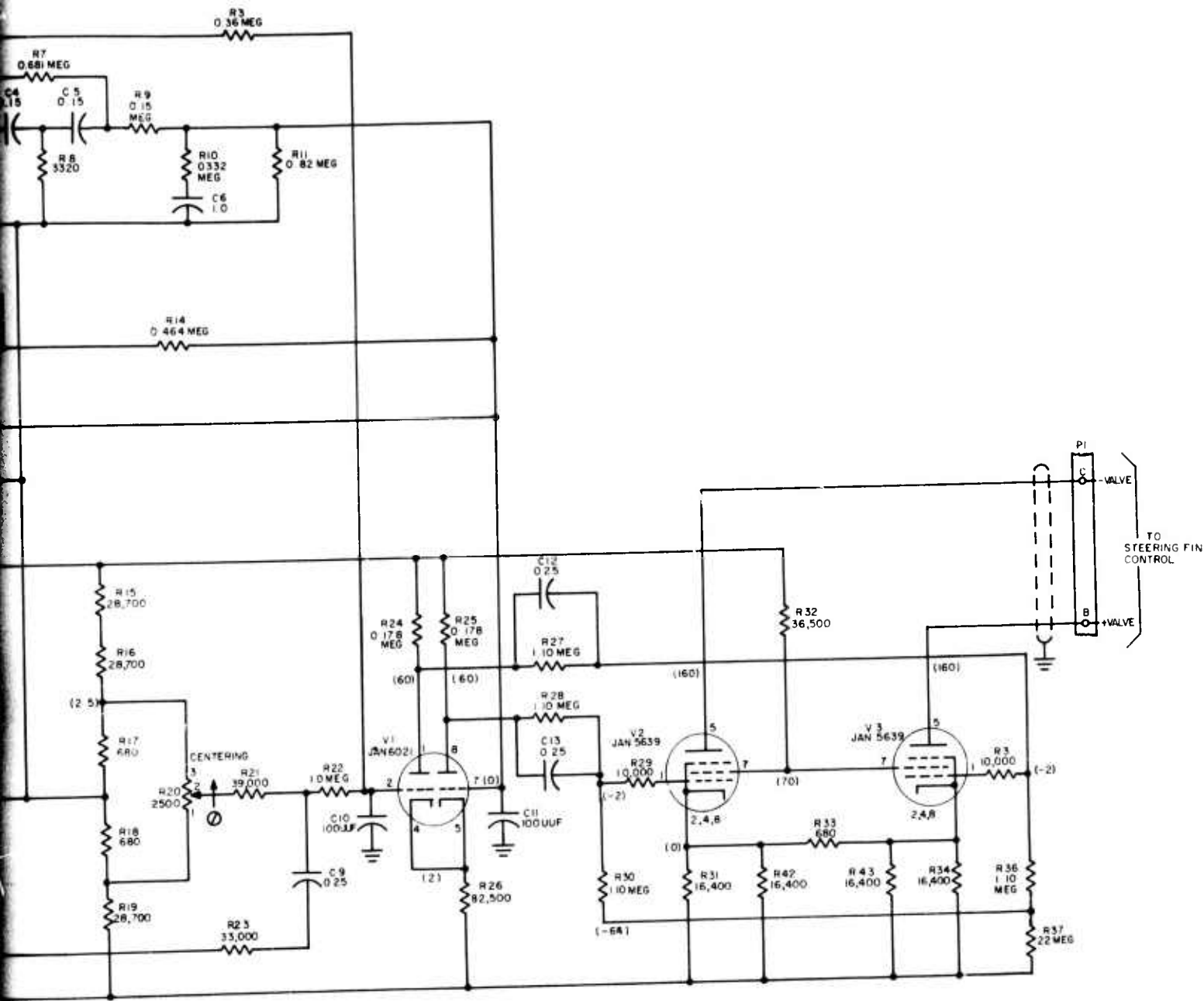
A



YAW CONTROL AMPLIFIER SIMPLIFIED SCHEMATIC

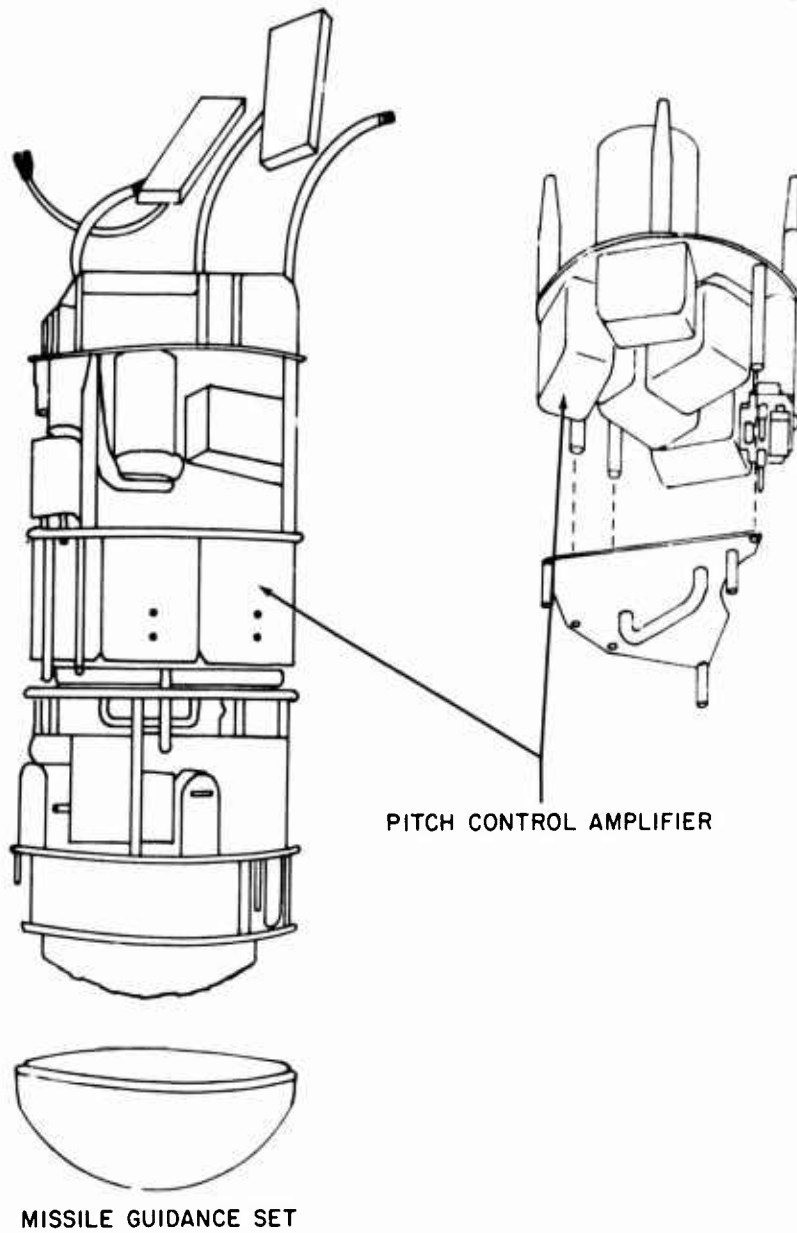
2





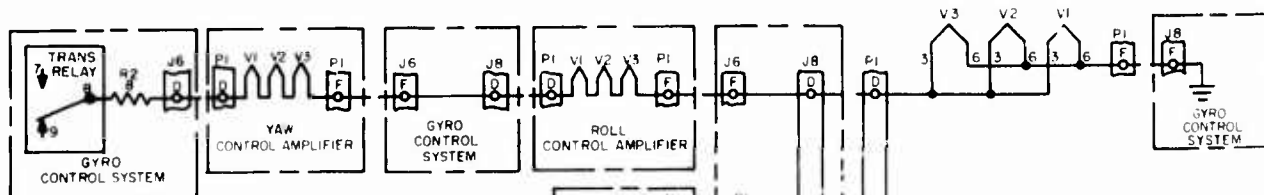
GS-16729 YAW CONTROL AMPLIFIER

A

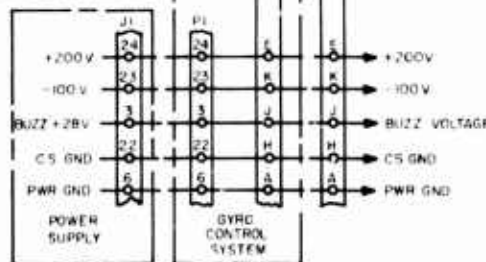


PITCH CONTROL AMPLIFIER

MISSILE GUIDANCE SET



NOTE:
SEE FIGURE 89
PAGE 127



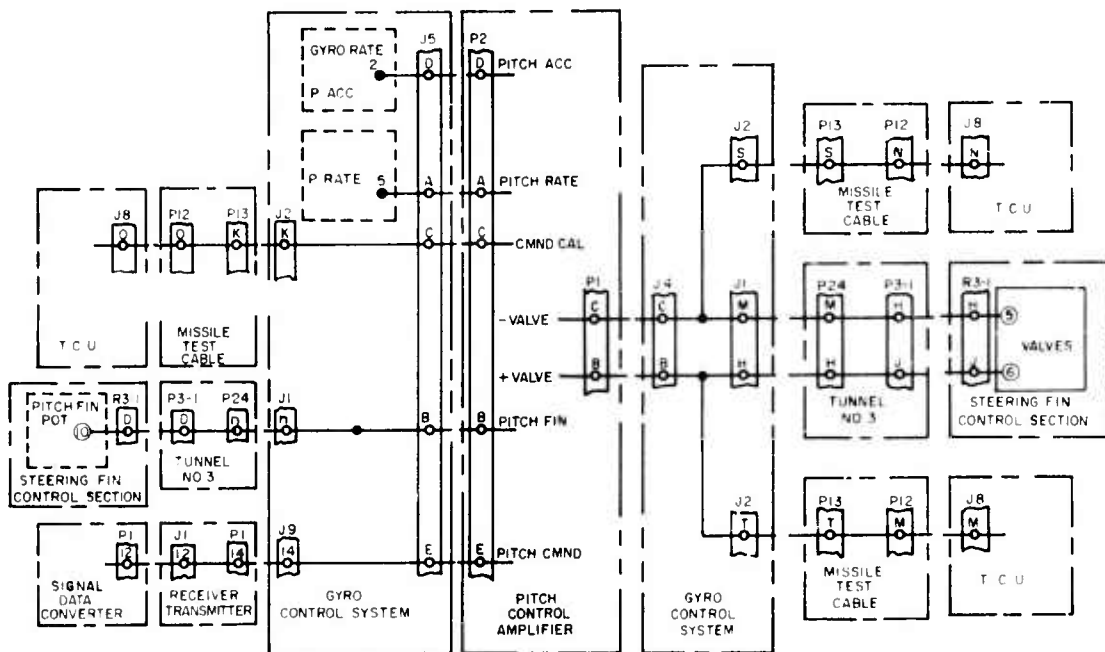
POWER DISTRIBUTION

PITCH CONTROL AMPLIFIER, NOTES

A

T.4
PITCH POT
STEERING CONTROL
SIG. DA. COMP.

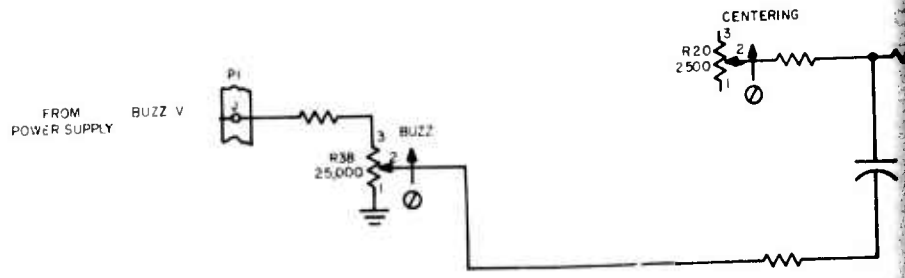
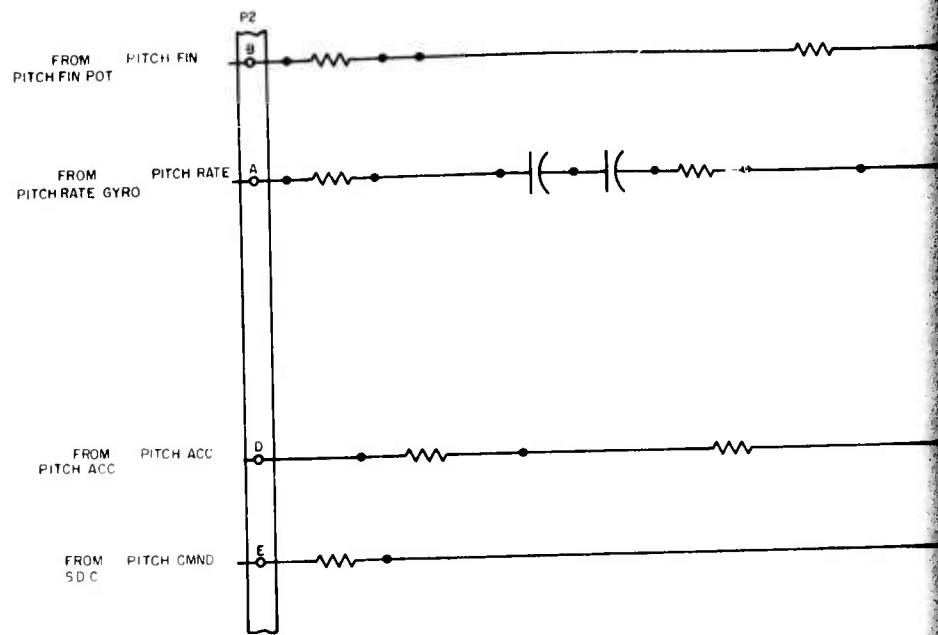
ED



SIGNAL DISTRIBUTION

~~CONFIDENTIAL~~

UNCLASSIFIED

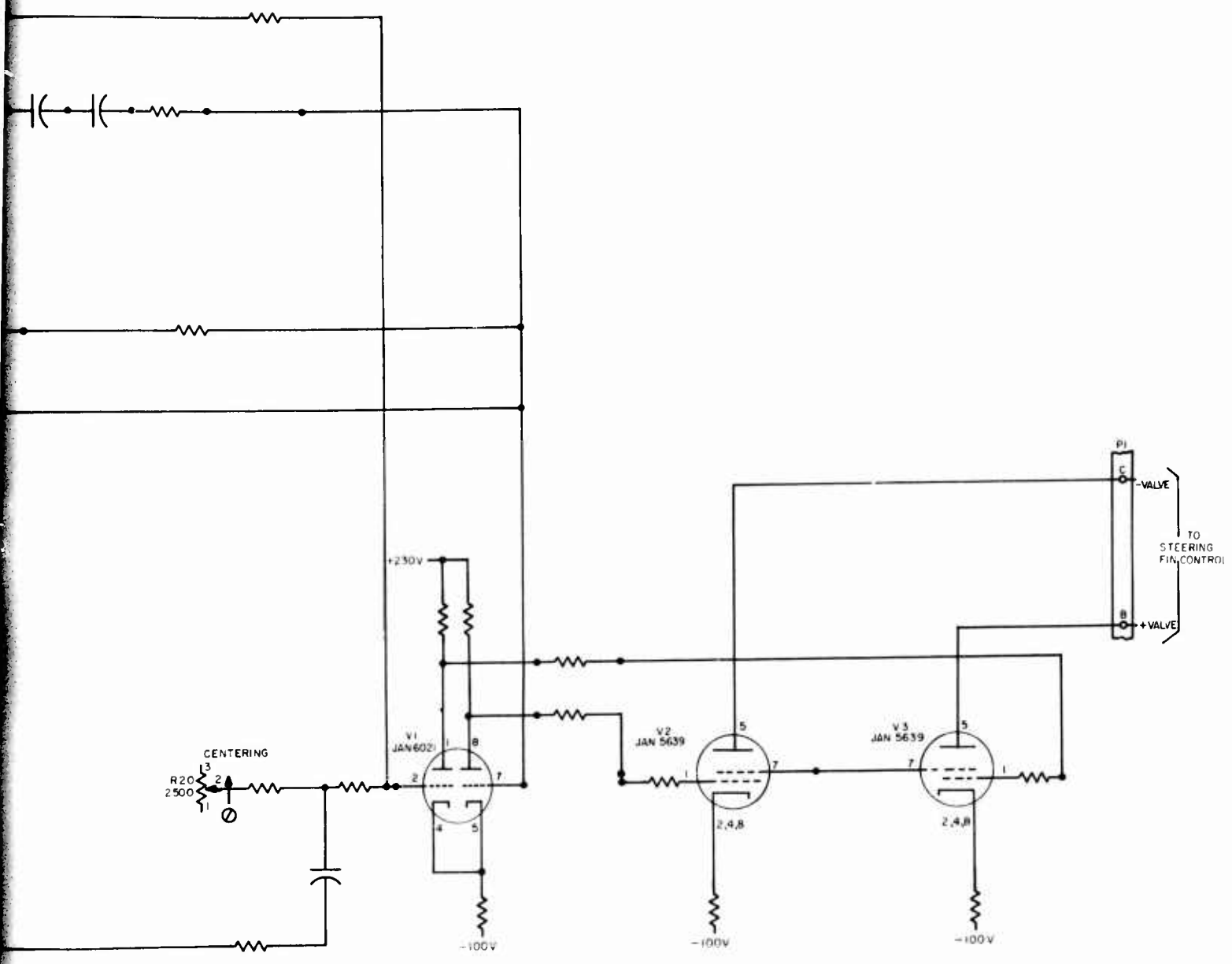


A

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

UNCLASSIFIED



PITCH CONTROL AMPLIFIER SIMPLIFIED SCHEMATIC

73

MEASUREMENT NOTES

SOCKET NO.	TUBE NO.	TUBE TYPE	TUBE FUNCTION	PLATE			SUPPRESSOR			PIN
				PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	

THIS DATA NOT AVAIL

PITCH CONTROL AMPLIFIER, NOTES

A

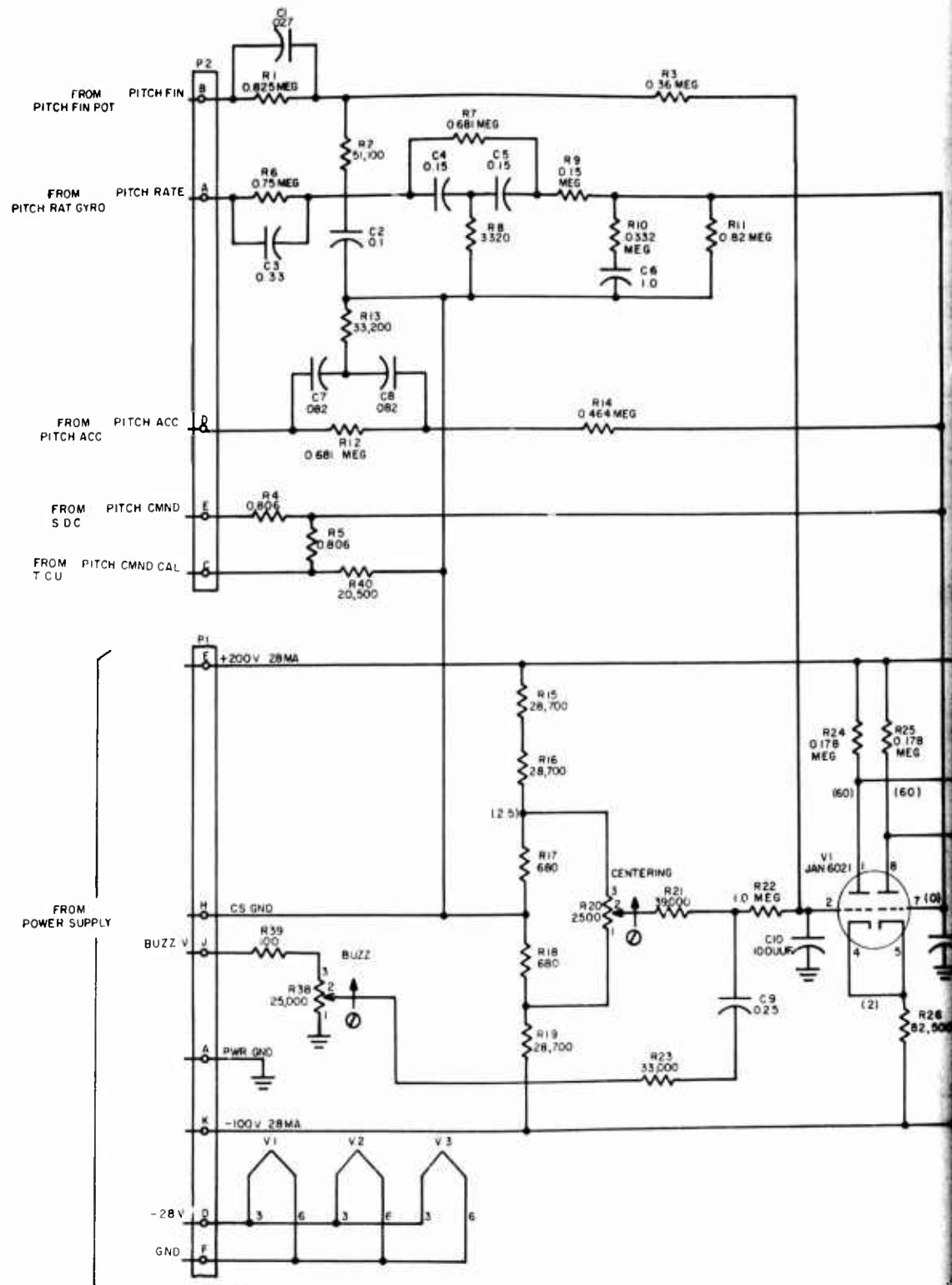


SUPPRESSOR			SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE														



~~CONFIDENTIAL~~

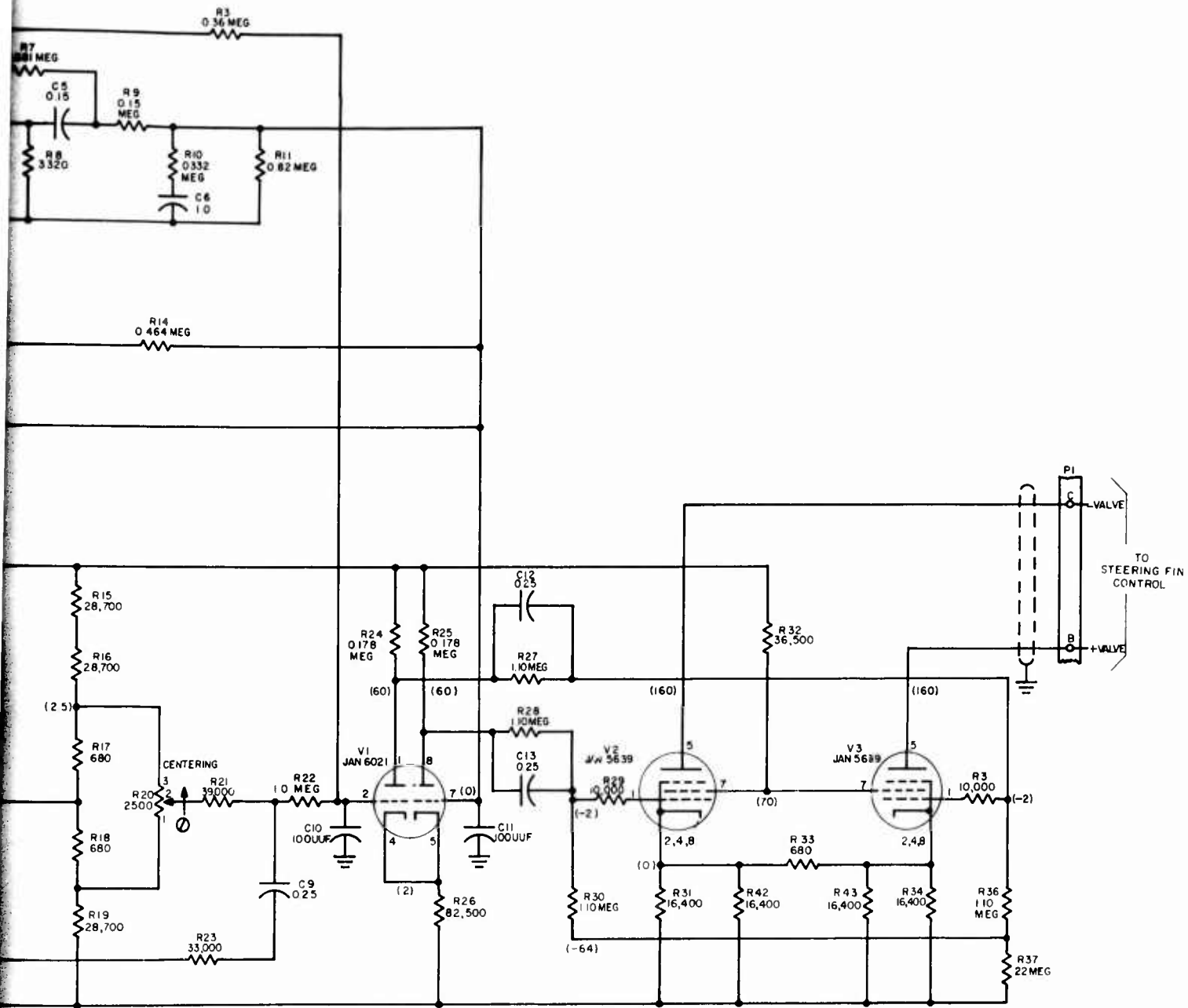
UNCLASSIFIED



~~CONFIDENTIAL~~

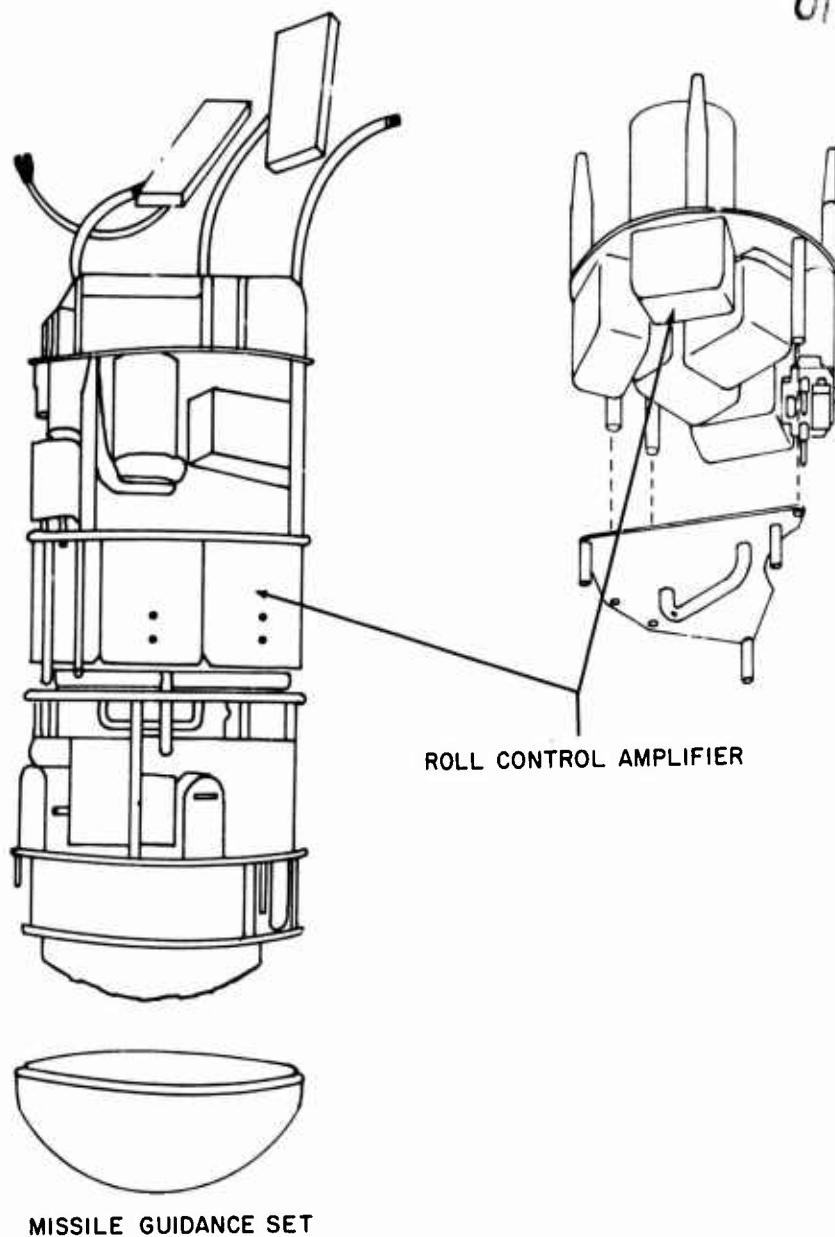
A

UNCLASSIFIED



GS-16729 PITCH CONTROL AMPLIFIER

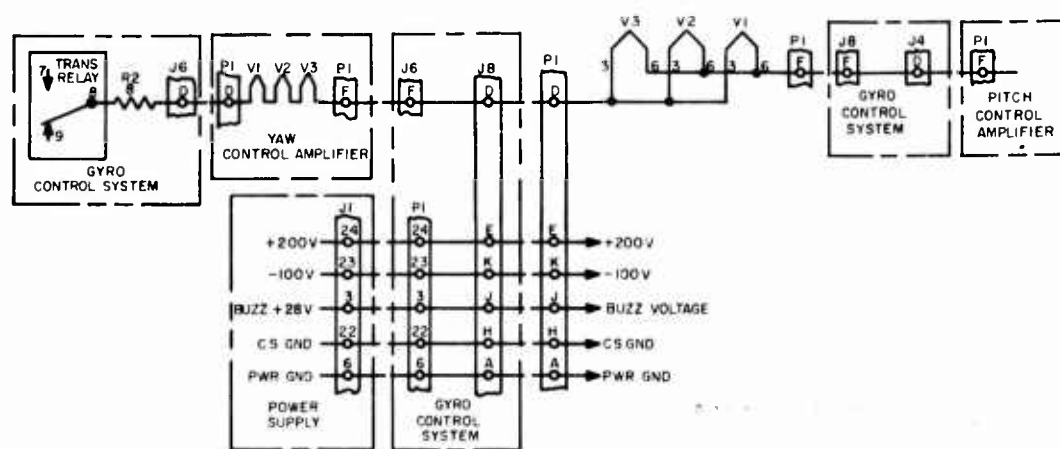
~~CONFIDENTIAL~~
UNCLASSIFIED



ROLL CONTROL AMPLIFIER

MISSILE GUIDANCE SET

NOTE:
SEE FIGURE 89
PAGE 127.



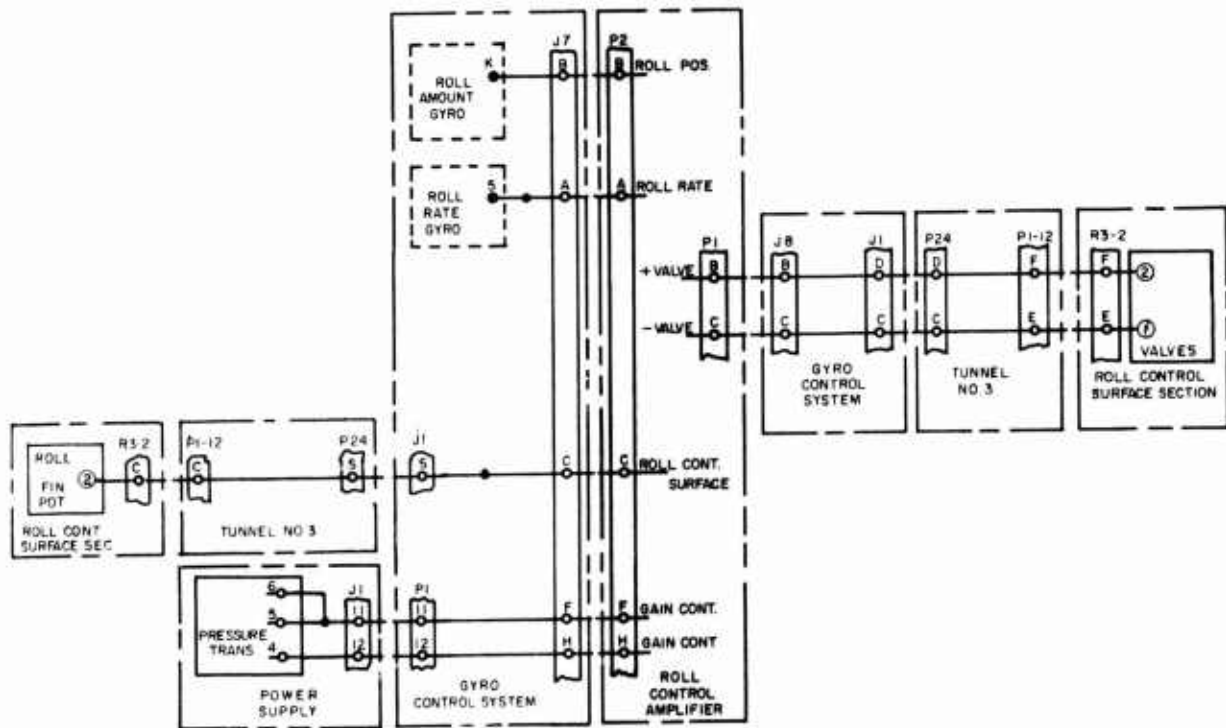
POWER DISTRIBUTION

ROLL CONTROL AMPLIFIER, NOTES

A

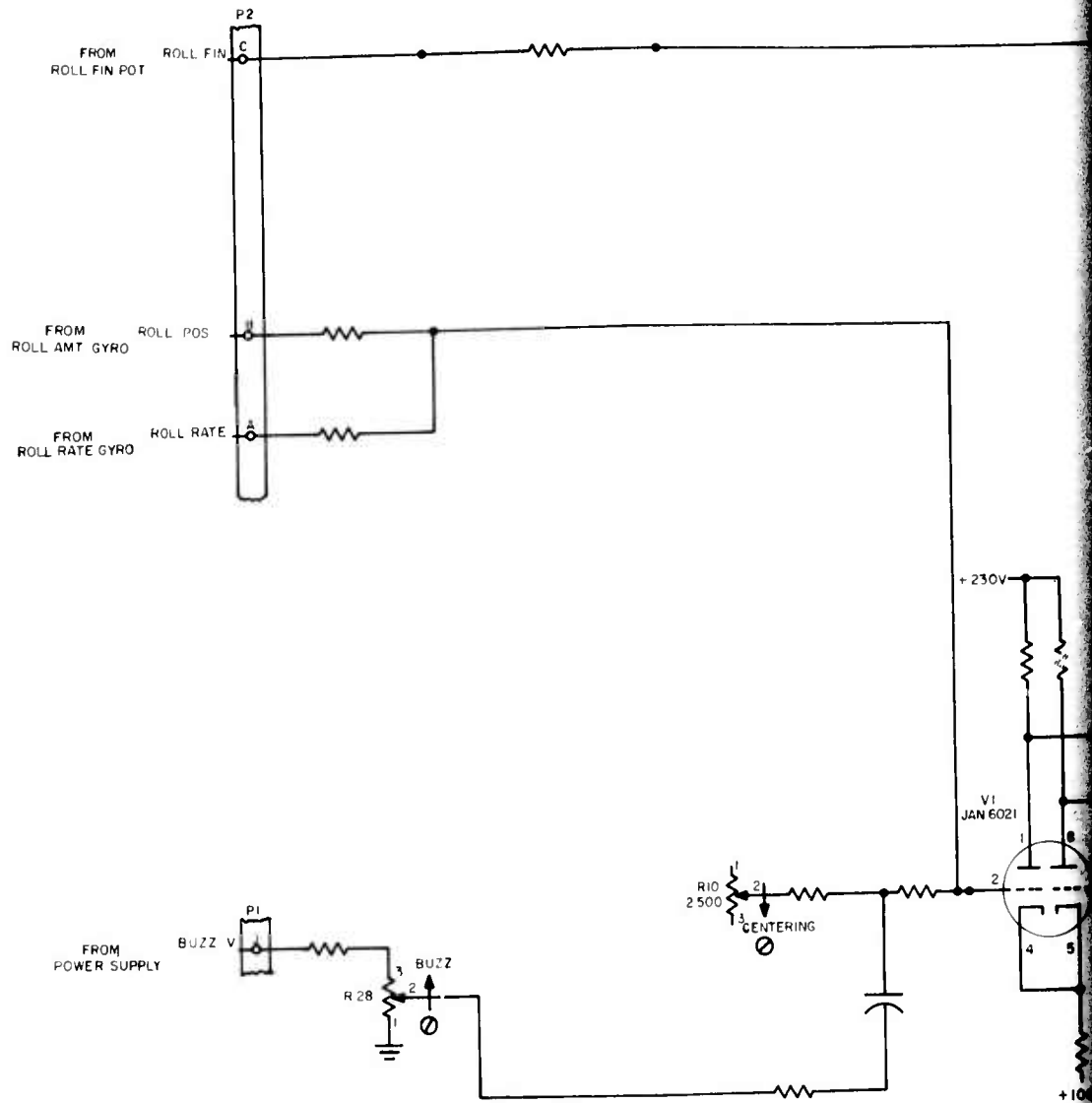
~~CONFIDENTIAL~~

SIFIED

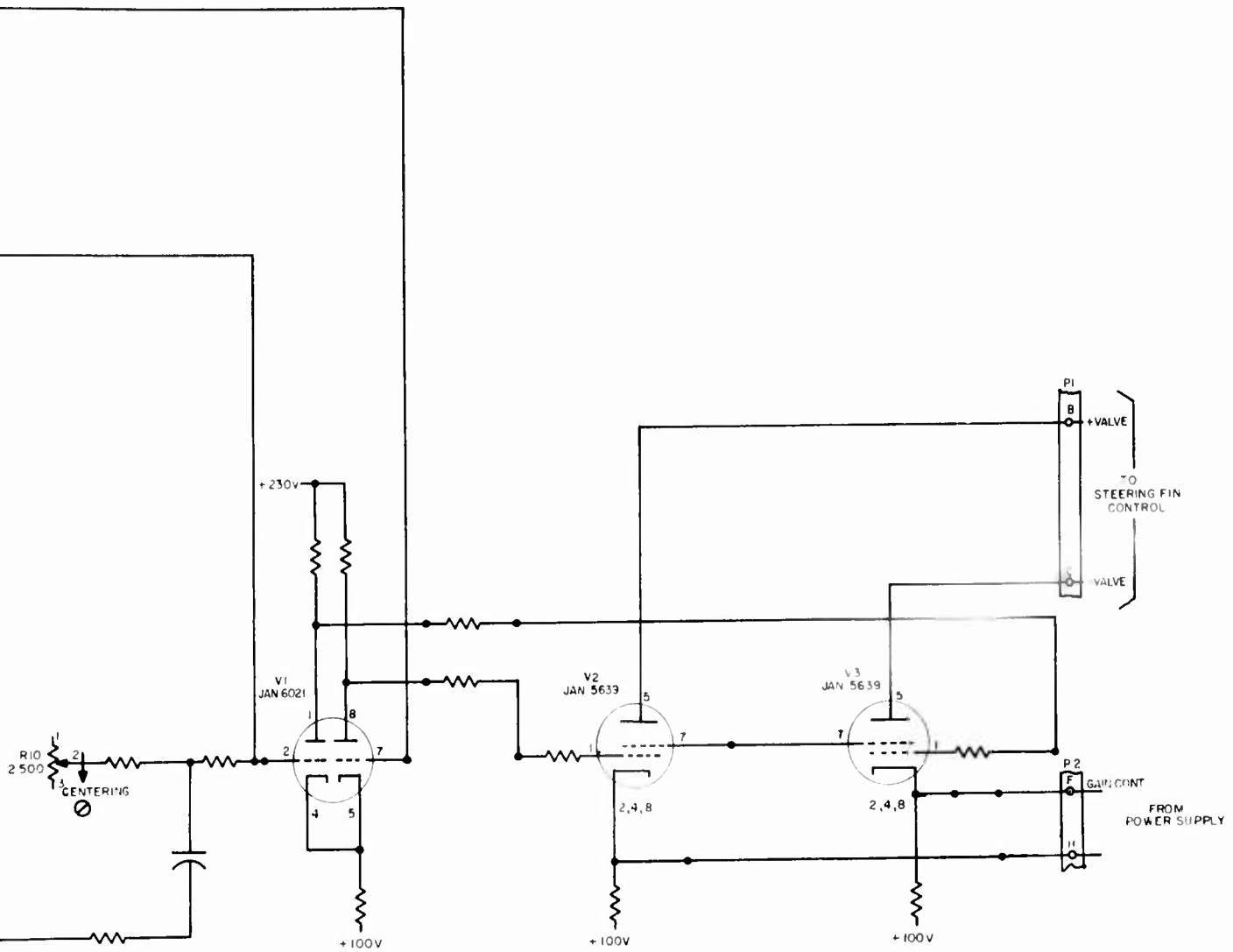


SIGNAL DISTRIBUTION

B



A



ROLL CONTROL AMPLIFIER SIMPLIFIED SCHEMATIC

[REDACTED]

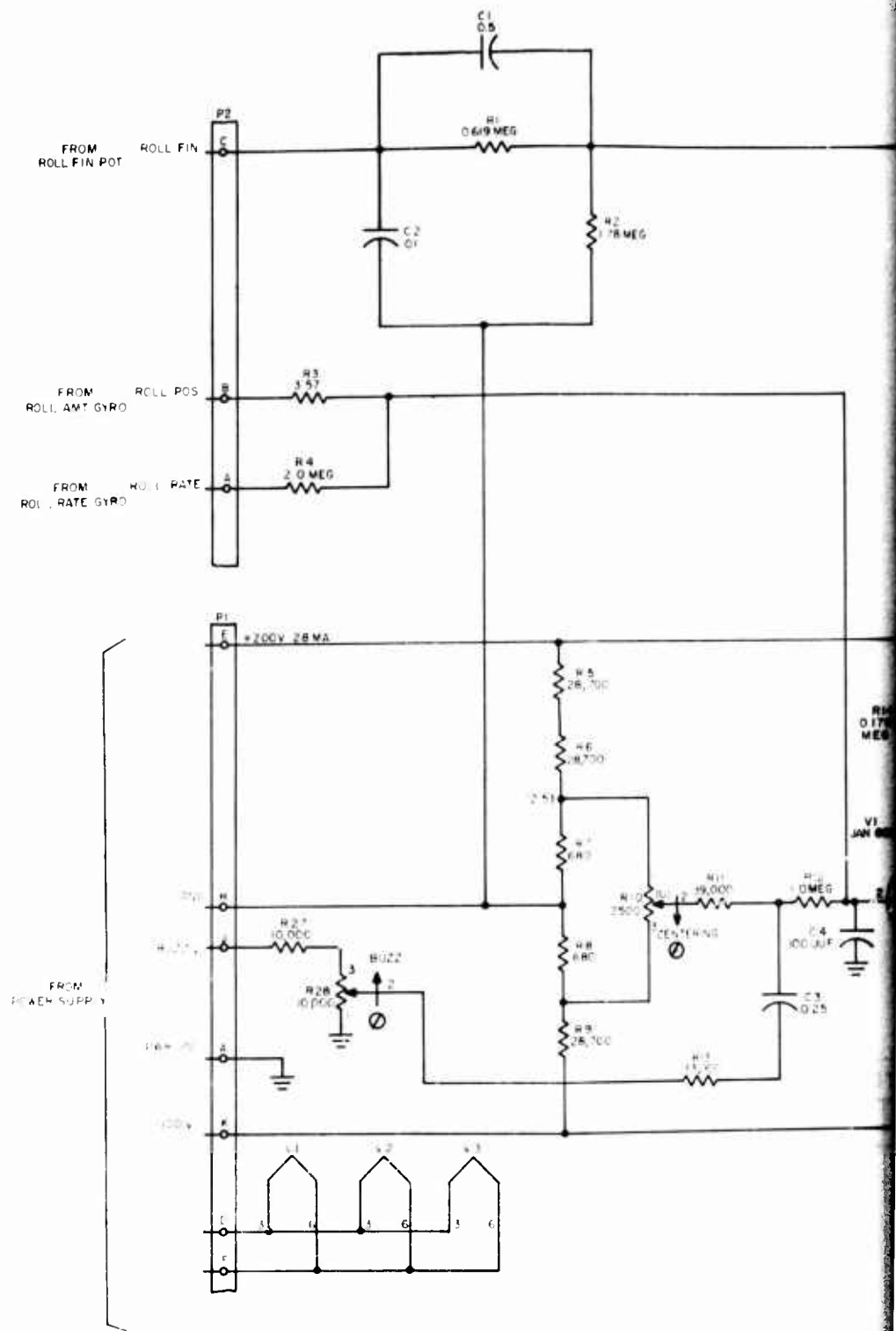
ED

SUPPRESSOR			SCREEN			CONTROL			CATHODE			FILAMENT		
PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS	PIN	VOLTS	OHMS
THIS DATA NOT AVAILABLE														

[REDACTED]

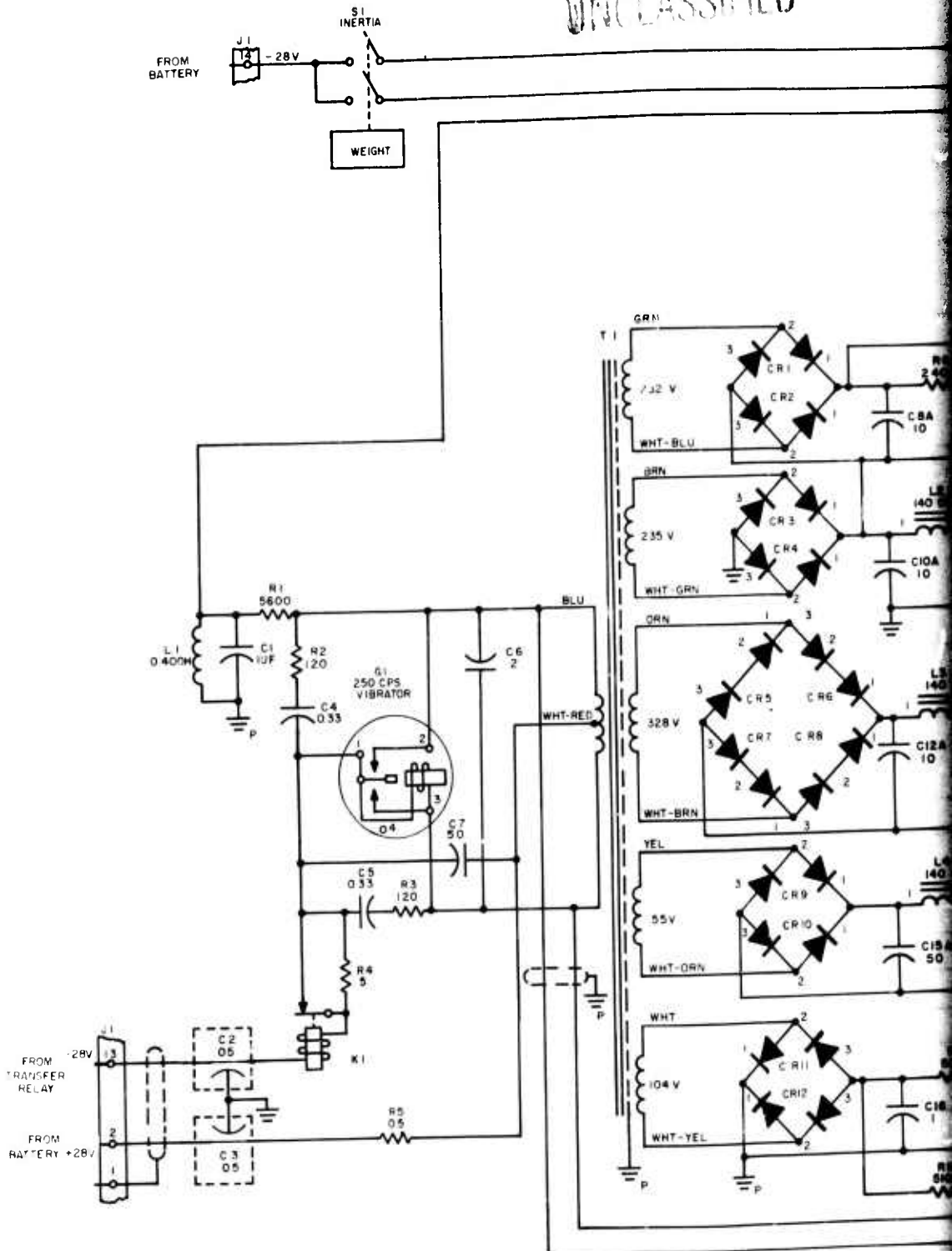
~~CONFIDENTIAL~~

UNCLASSIFIED

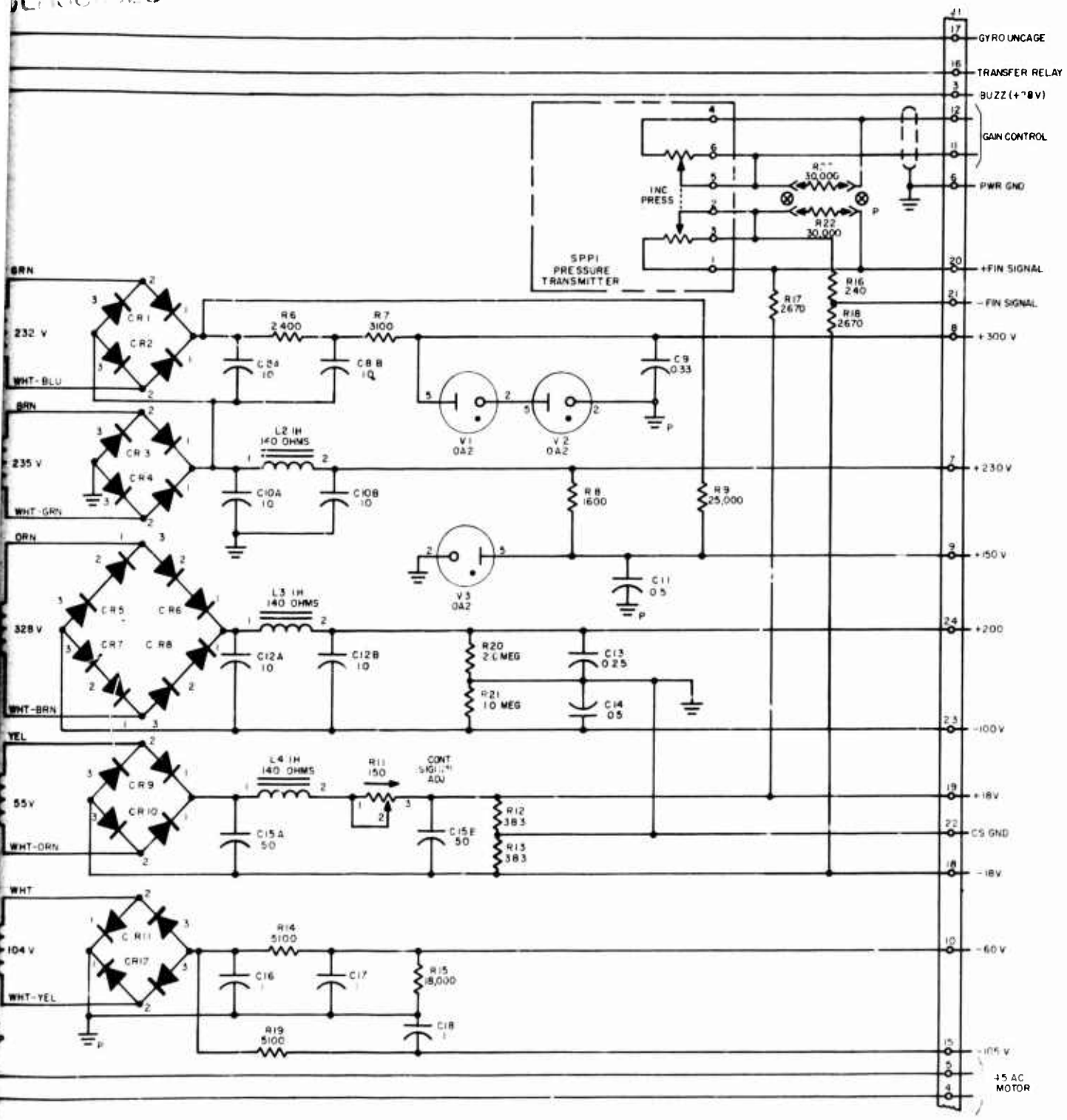


~~CONFIDENTIAL~~

UNCLASSIFIED

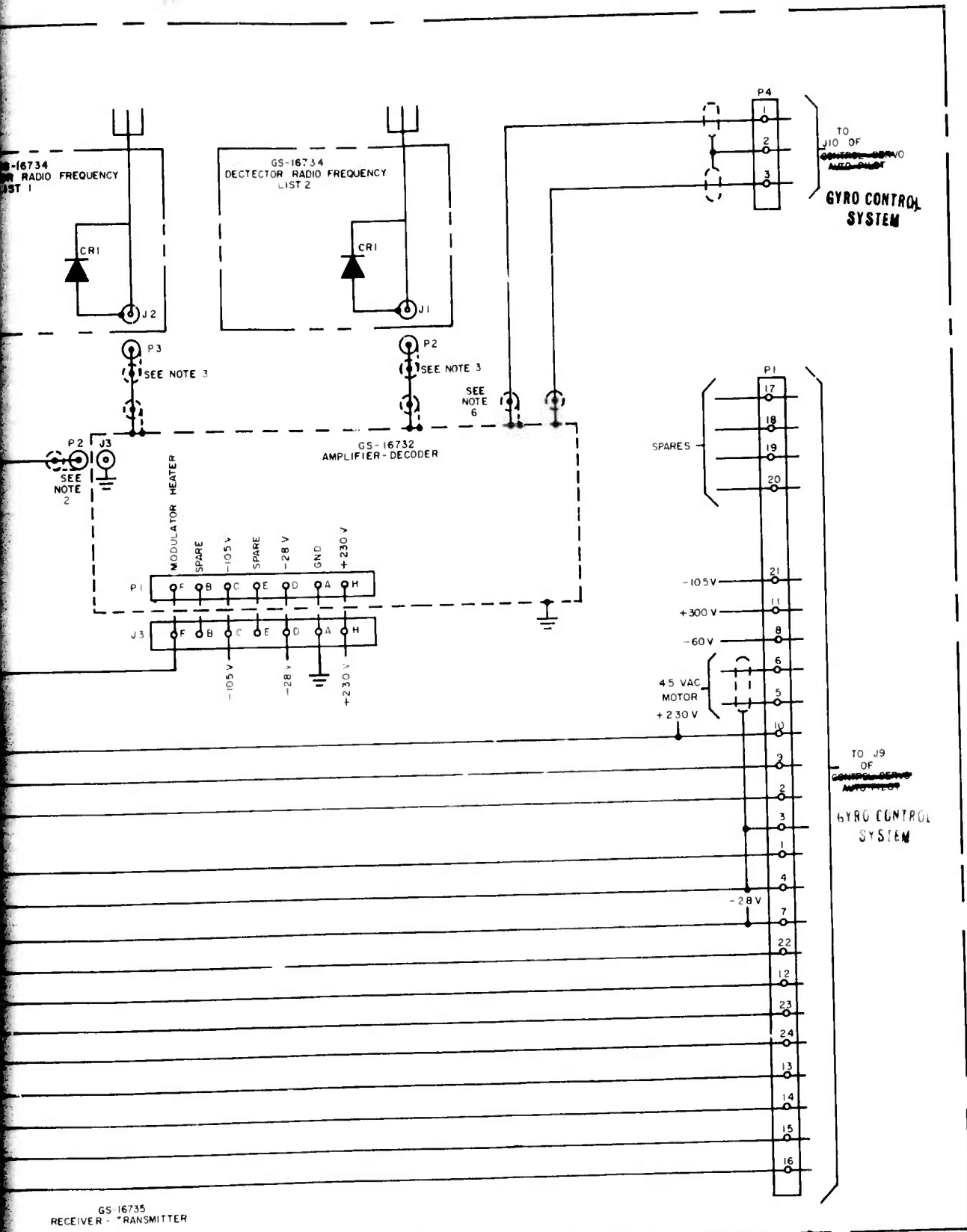


CLASSIFIED



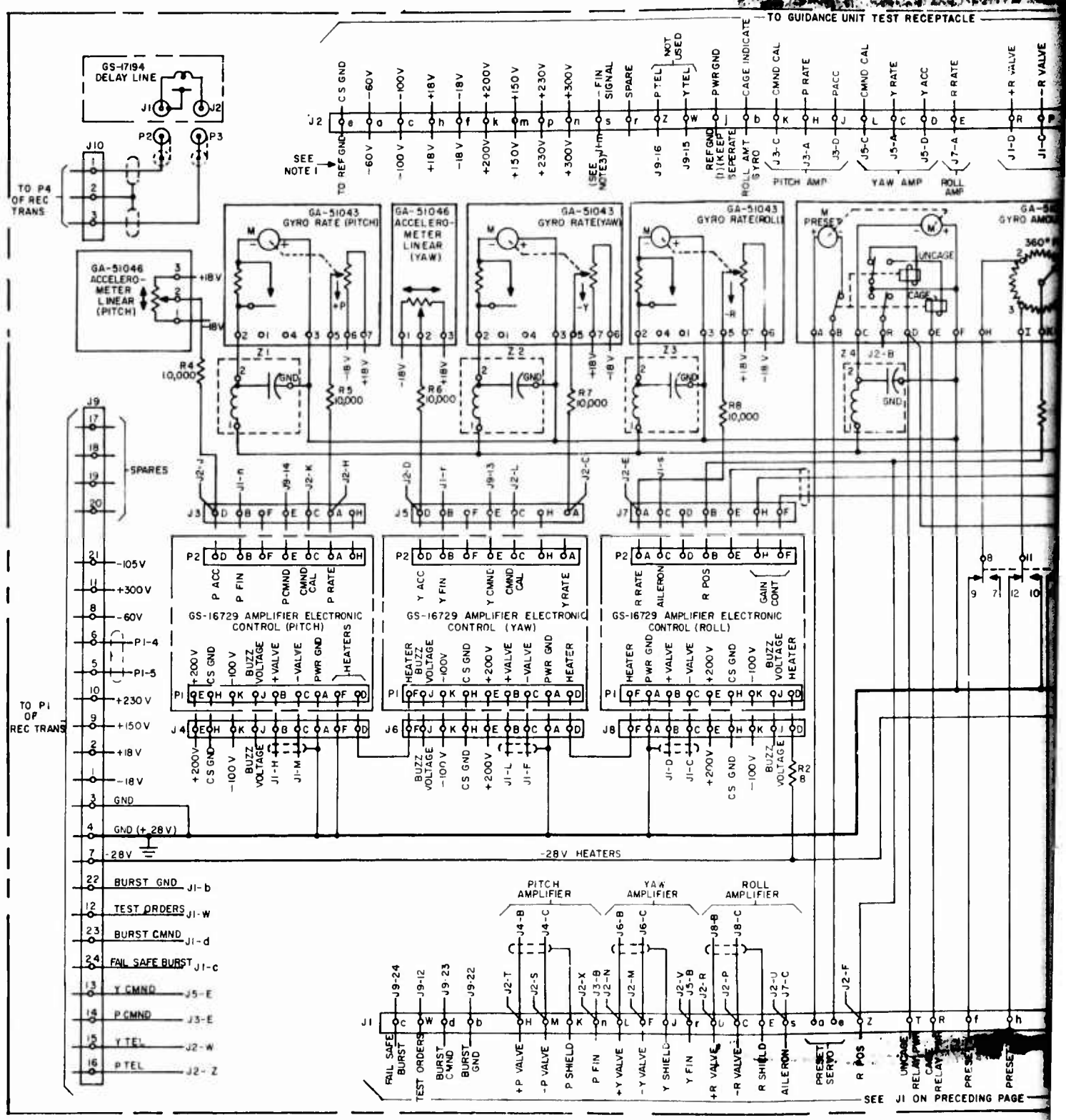
GS-16815 POWER SUPPLY MISSILE

~~CONFIDENTIAL~~



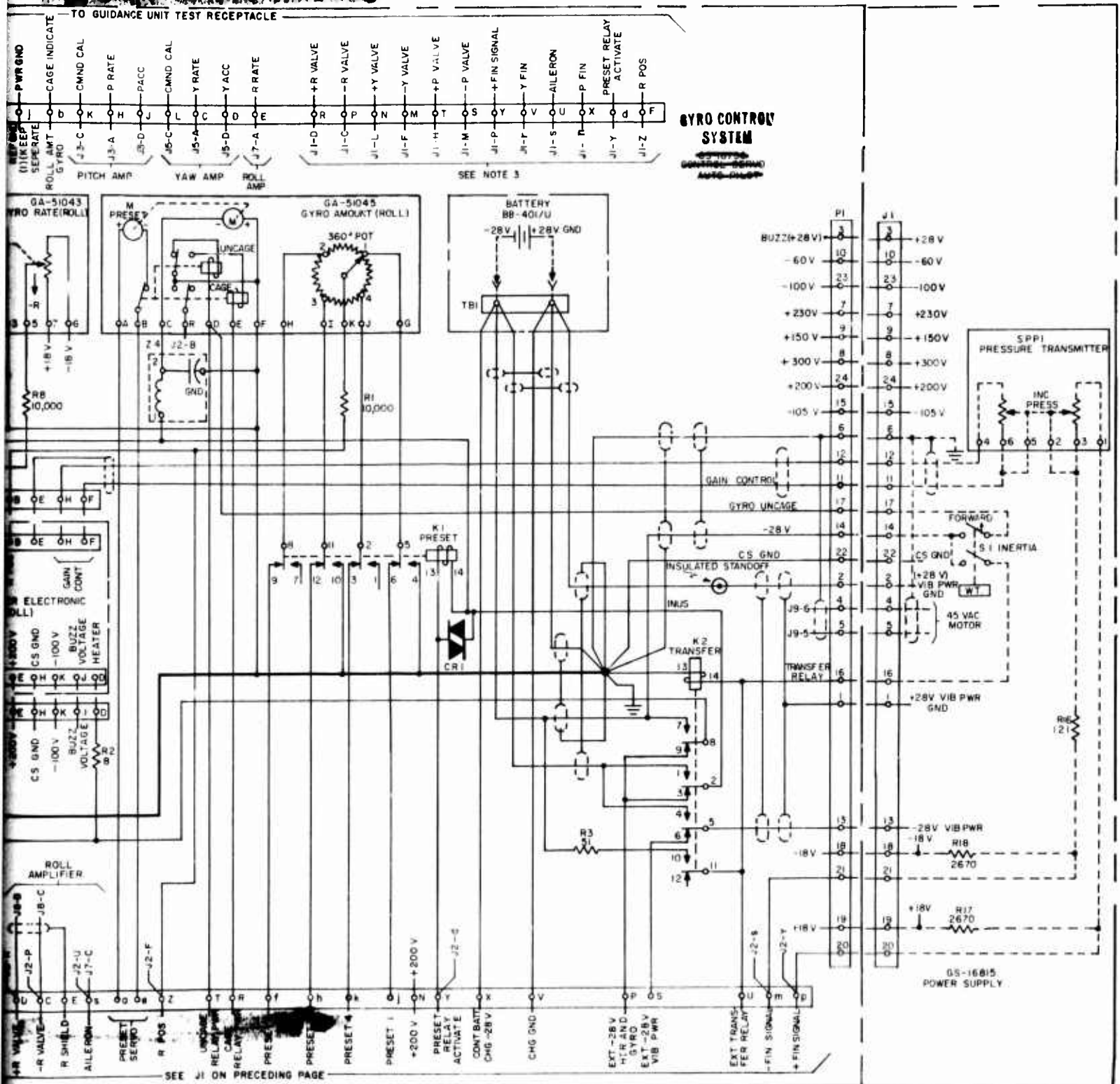
~~CONFIDENTIAL~~

UNCLASSIFIED

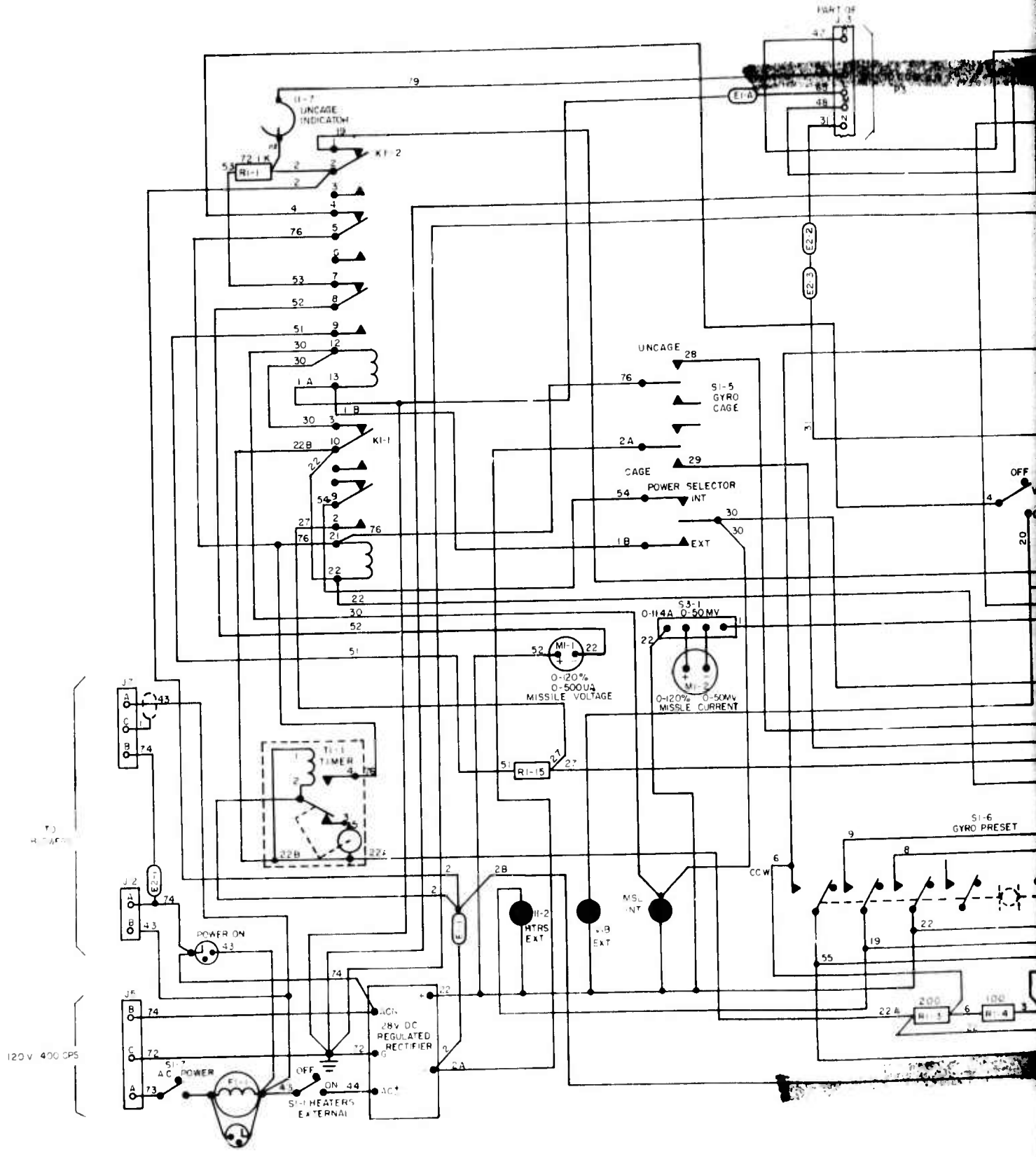


SEE J1 ON PRECEDING PAGE

UNCLASSIFIED

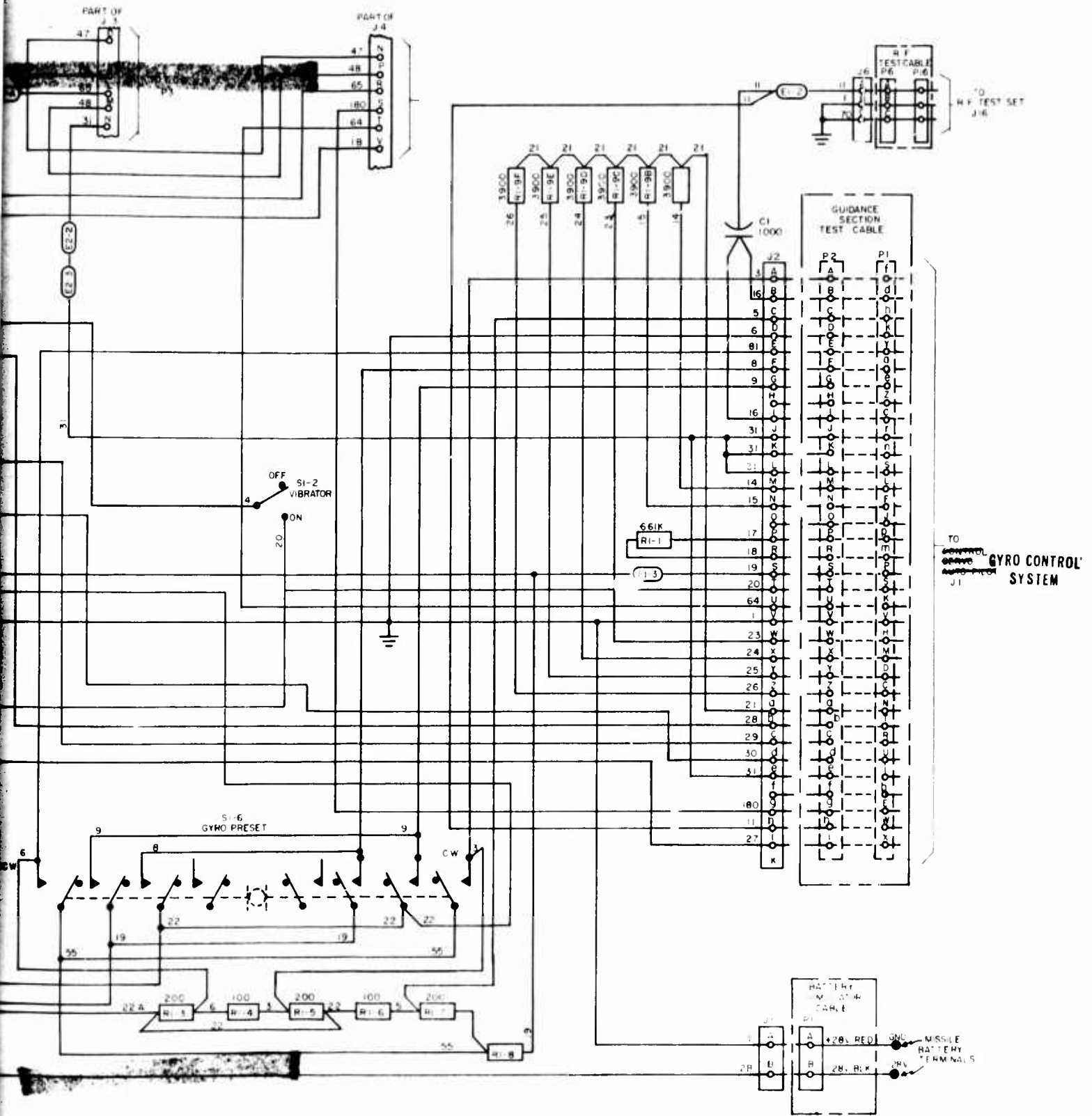


GS-16725 GUIDANCE SECTION INTERCONNECTING SCHEMATIC II

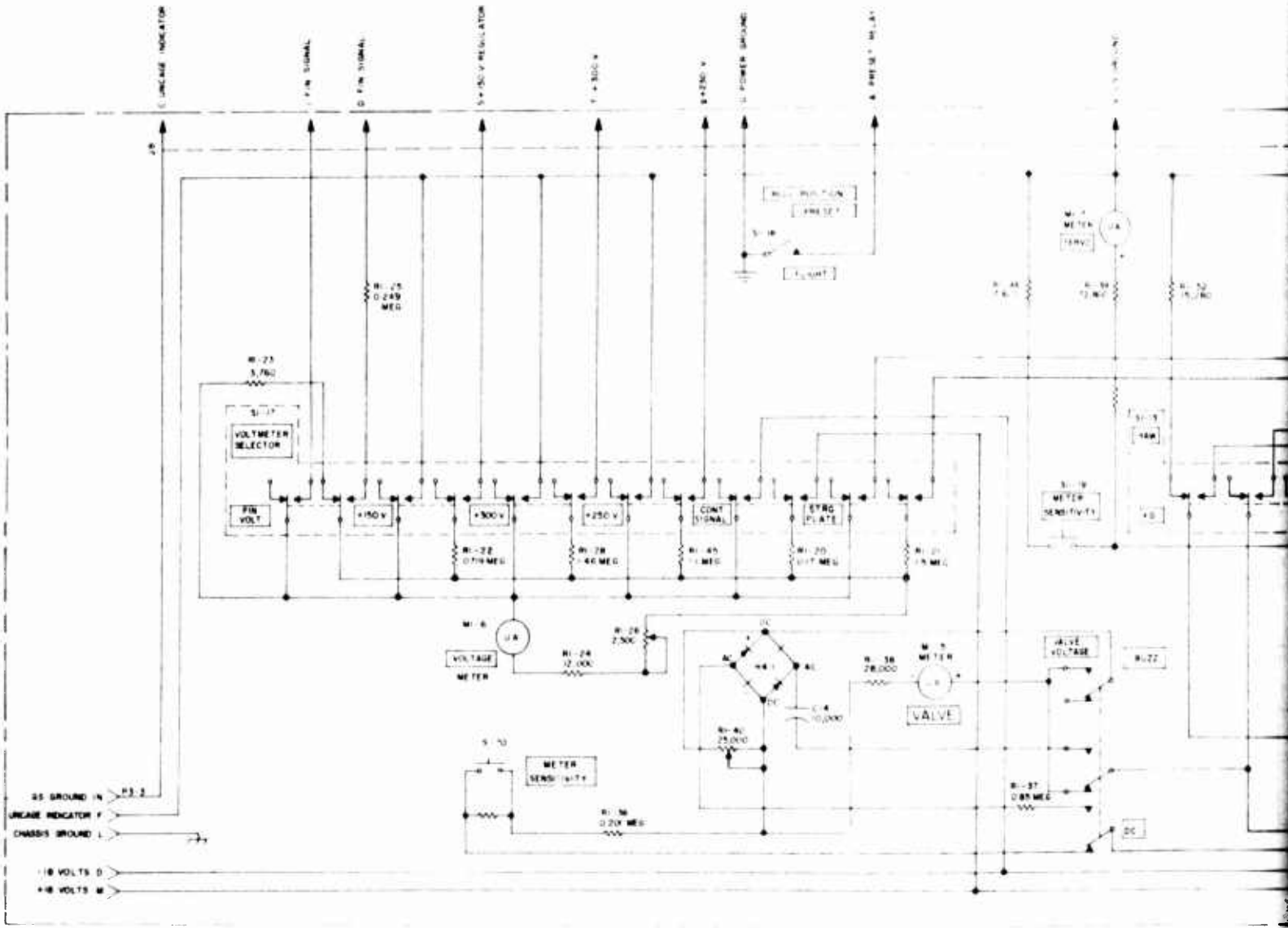


TO H-1000

120 V 400 CPS



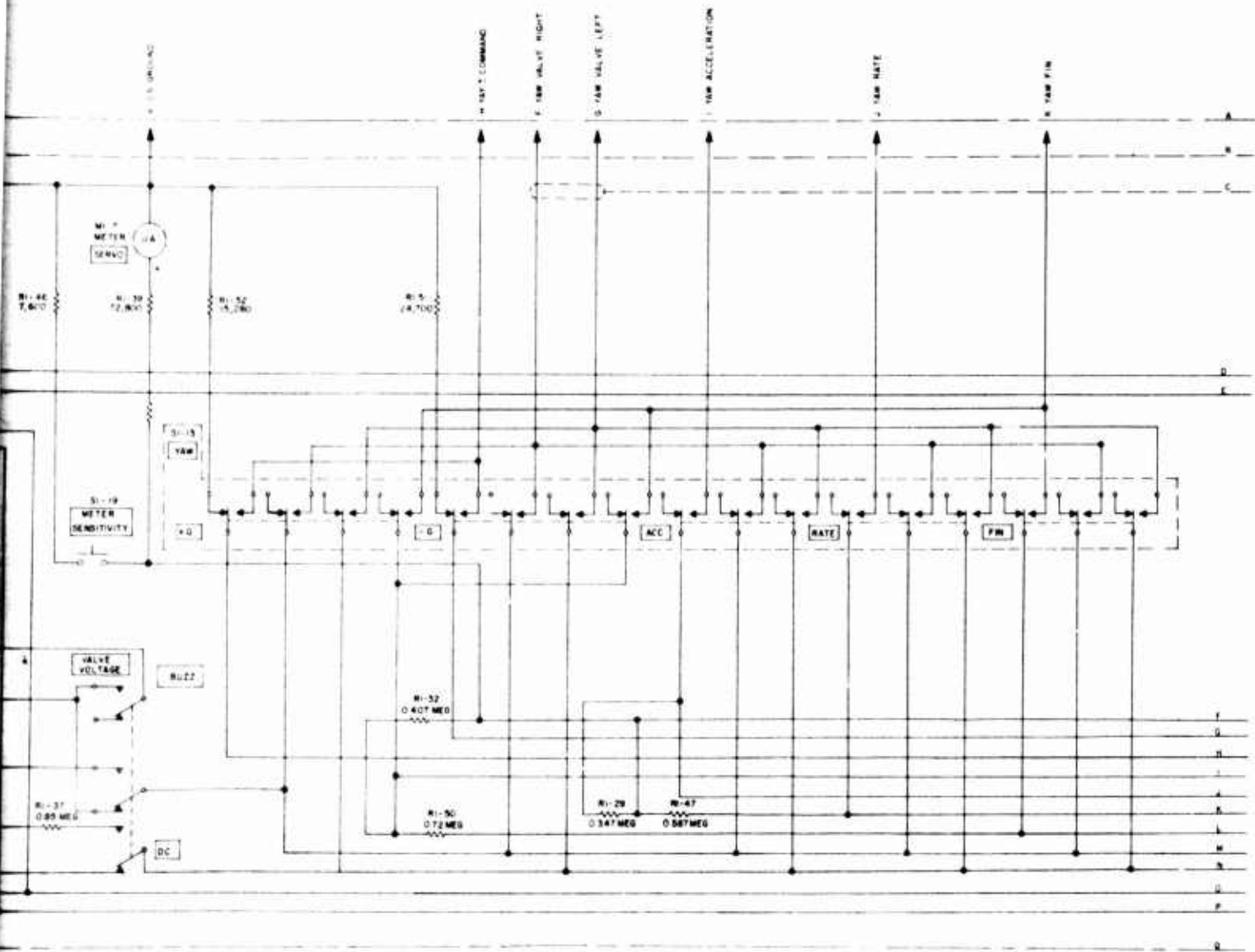
TEST POWER CONTROL UNIT, WIRING DIAGRAM



TEST CONTROL UNIT

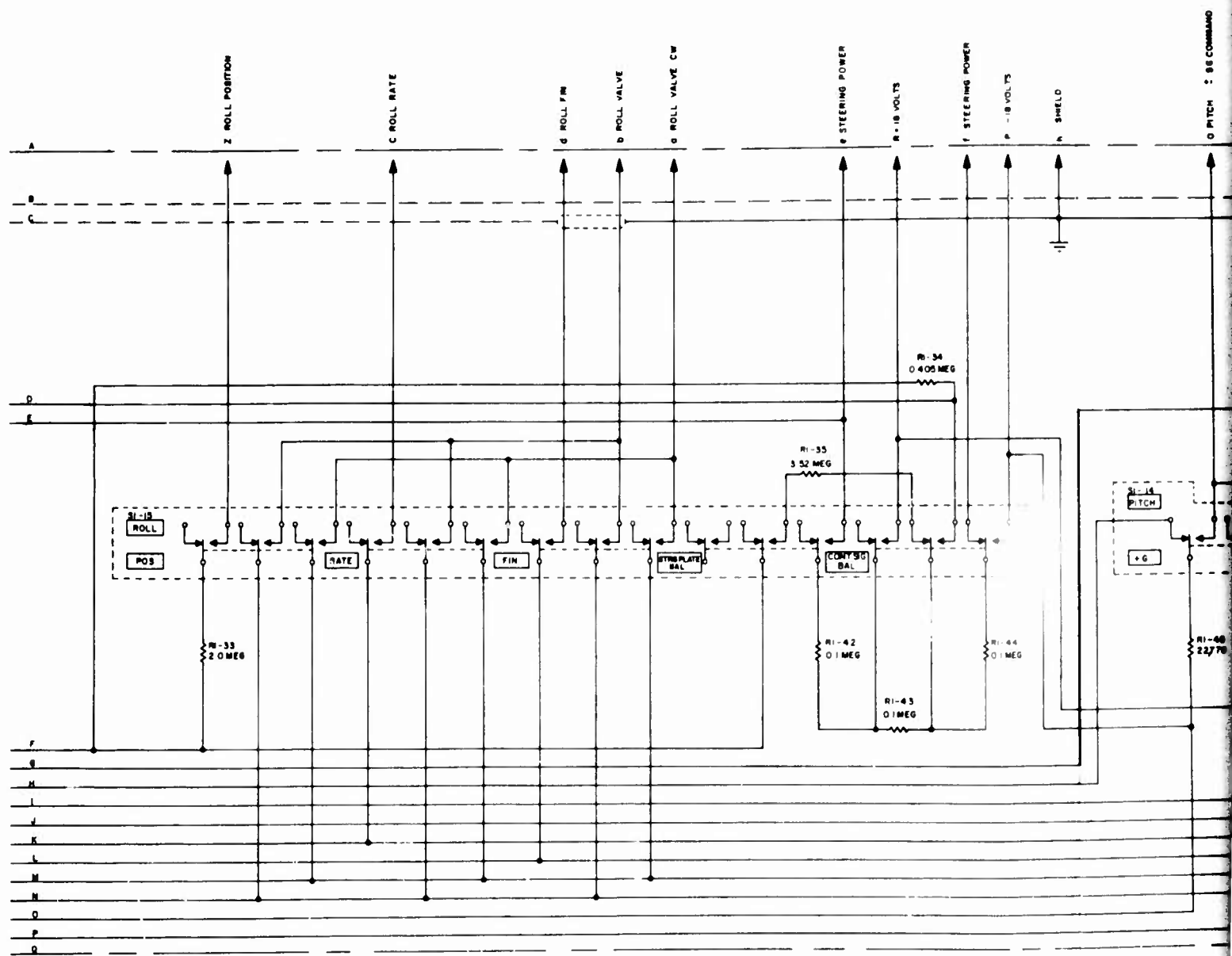
Wiring diagram, test control indicator panel (sheet 1).

UNCLASSIFIED



UNCLASSIFIED

~~CONFIDENTIAL~~

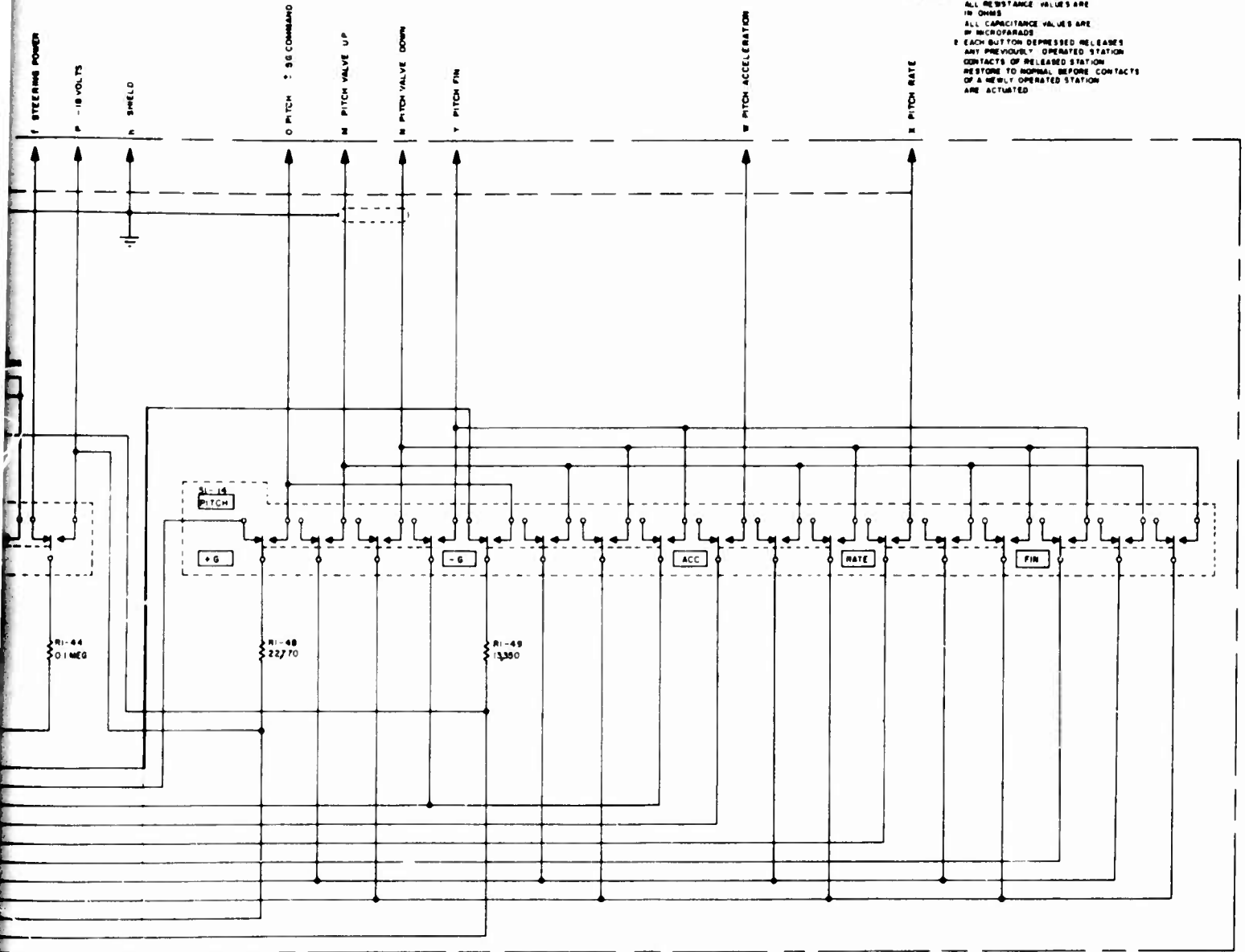


~~CONFIDENTIAL~~

Wirt

A

SIFIED



NOTES:
 1 UNLESS OTHERWISE INDICATED, ALL RESISTANCE VALUES ARE IN OHMS
 2 ALL CAPACITANCE VALUES ARE IN MICROFARADS
 3 EACH BUTTON DEPRESSED RELEASES ANY PREVIOUSLY OPERATED STATION CONTACTS OF RELEASED STATION RESTORE TO NORMAL BEFORE CONTACTS OF A NEWLY OPERATED STATION ARE ACTUATED

TEST CONTROL UNIT

Wiring diagram, test control indicator panel (sheet 2).

ABBREVIATIONS

ac-----alternating current
acc-----accelerometer
acn-----alternating current neutral
adj-----adjust(able) (ing)
afc-----automatic frequency control
al-----aluminum
amp-----ampere(s)
ampl-----amplifier
ant-----antenna
assy-----assembly(ies)
atten-----attenuator
bal-----balance
cal-----calibrate
cap-----capacity, capacitor
cath-----cathode
cav-----cavity
ccs-----command cal switch
ccw-----counterclockwise
ckt-----circuit
cl-----clear
comm-----common
comp-----compensate
cont-----control
cps-----cycles per second
cs-----control signal
cur-----current
cw-----clockwise, continuous wave(s)
db-----decibel(s)
dc-----direct current
dia-----diameter
dpdt-----double-pole, double-throw
dpst-----double-pole, single-throw
ea-----each
ext-----external
fil-----filament(s)
fl-----flat
fm-----frequency modulation
freq-----frequency

gc-----gate control
gnd-----ground
h-----height, high
hor-----horizontal
htrs-----heaters
hv-----heavy
hy-----henry(ies)
in-----inch(es)
ind-----inductance, induction, indicator
int-----internal
kc-----kilocycle(s)
lchr-----launcher
lg-----length, long
lp-----low pass
lpf-----low pass filter
ma-----milliampere(s)
max-----maximum
mc-----megacycle(s)
meas-----measure
med-----medium
meg-----megohm(s)
min-----minimum, miniature, minute(s)
min-bay-base-----miniature bayonet base
mod-----modification, modulator
mon-----monitor
mot-----motor
mtd-----mounted
mtg-----mounting(s)
mv-----multivibrator
nc-----not connected, normally closed
No.-----number(s)
nom-----nominal
ord-----Ordnance Corps
osc-----oscillator
ped-----pedestal
PMC-----power meter cal
pos-----positive
pri-----primary

IONS

gate control	ps-----	pulse selector
ground	pwr-----	power
height, high	rc-----	relay control
horizontal	rd-----	round
heaters	rec-----	receive
heavy	rect-----	rectangular, rectifier
henry(ies)	reg-----	regular
inch(es)	rep-----	repetition
inductance, induction, indicator	rest-----	restore
internal	RF-----	radio frequency
kilocycle(s)	rpm-----	revolutions per minute
launcher	sec-----	seconds(s)
length, long	sens-----	sensitivity
low pass	sgle-fil-----	single filament
low pass filter	sgle-ph-----	single phase
milliampere(s)	sig-----	signal
maximum	sil-----	silver
megacycle(s)	spdt-----	single-pole, double-throw
measure	stght-----	straight
medium	strg-----	steering
megohm(s)	sw-----	switch
minimum, miniature, minute(s)	TCU-----	test control unit
miniature bayonet base	T/D's-----	time microseconds control
modification, modulator	term.-----	terminal(s)
monitor	thd-----	thread(ed) (s)
motor	TPCU-----	test power control unit
mounted	trans-----	transformer
mounting	TSS-----	test selector switch
multivibrator	ua-----	microampere(s)
not connected, normally closed	uf-----	microfarad(s)
number(s)	uuf-----	micromicrofarad(s)
nominal	uh-----	microhenry(ies)
Ordnance Corps	usec-----	microsecond(s)
oscillator	V-----	volt(s)
pedestal	vert-----	vertical
power meter cal	w-----	watt, wide. width
positive	xtal-----	crystal
primary		