

Figure 20. Radio Transmitter

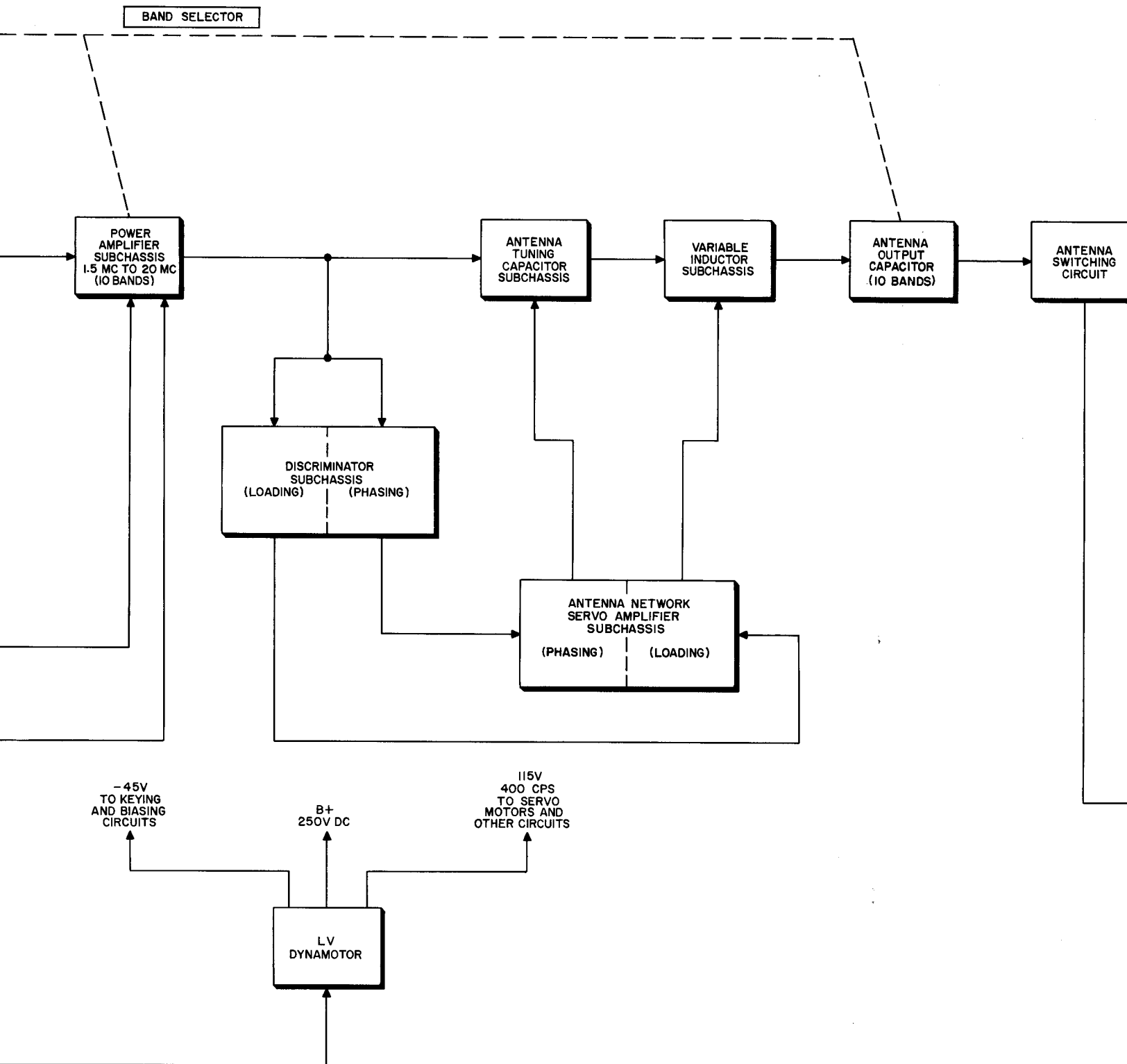
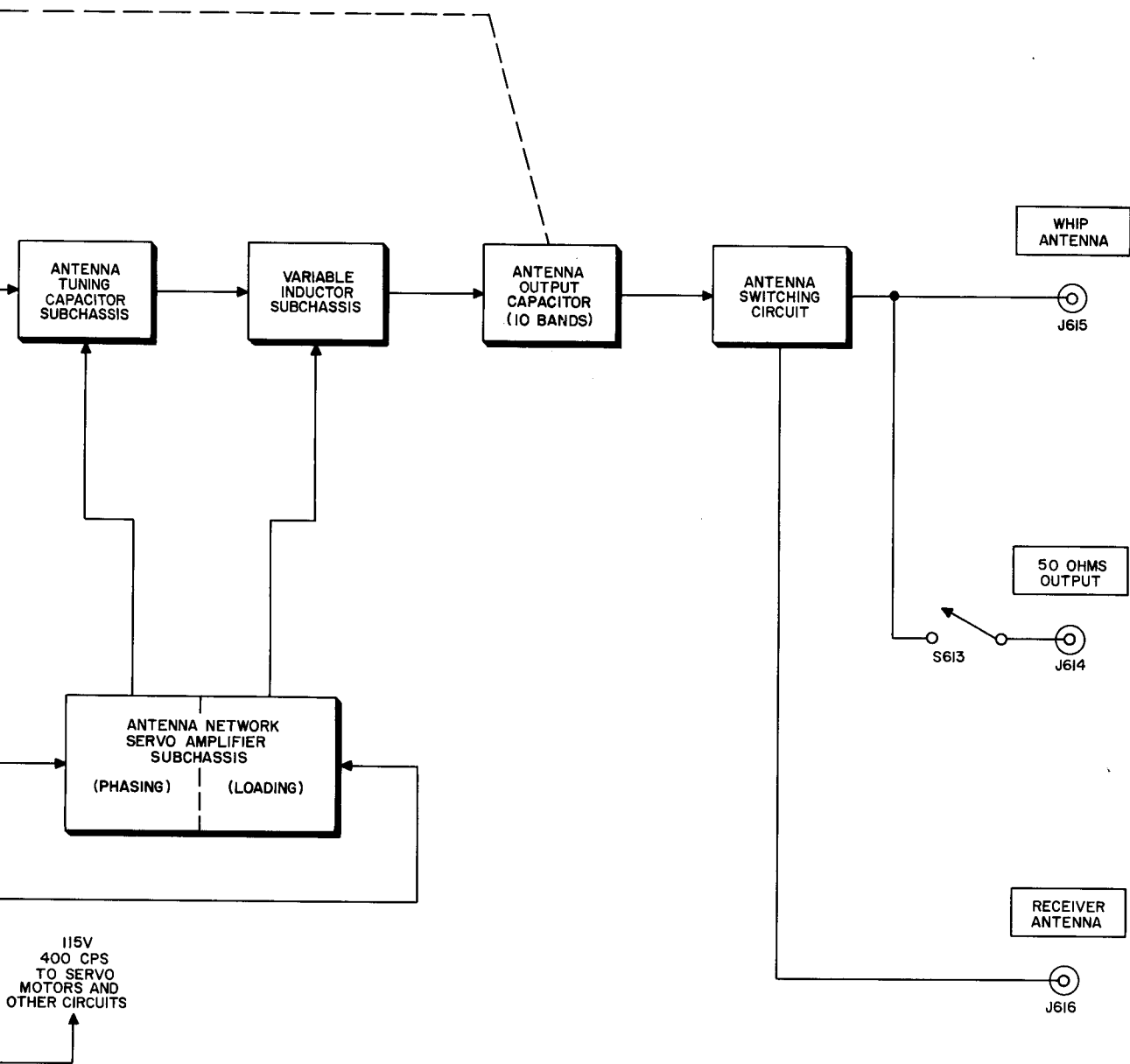


Figure 20. Radio Transmitter T-195/GRC-19, composite block diagram.



site block diagram.

TM806-21

390412 O -56 (In pocket) No. 1

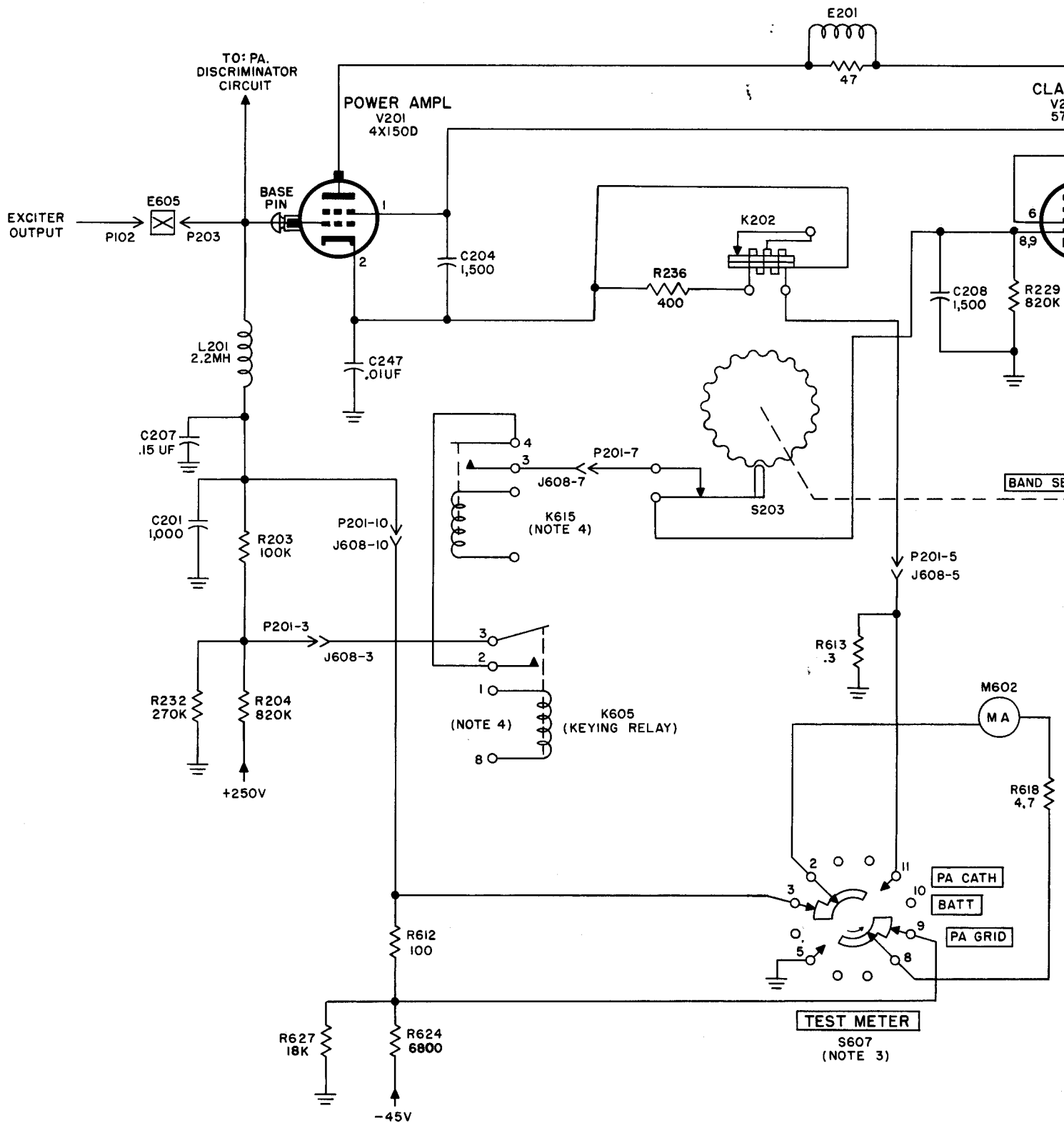
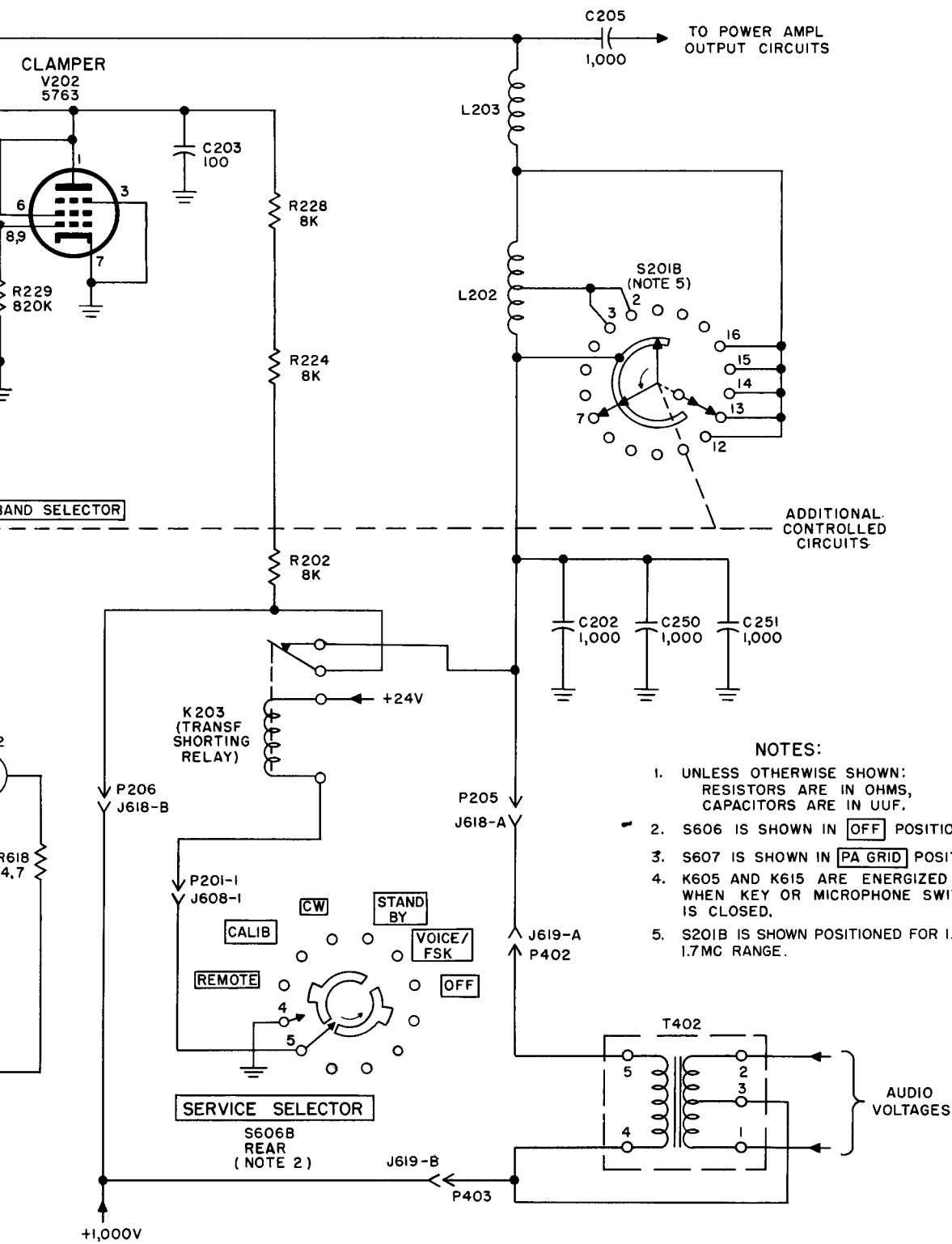


Figure 30. Power-amplifier and clamper stages.



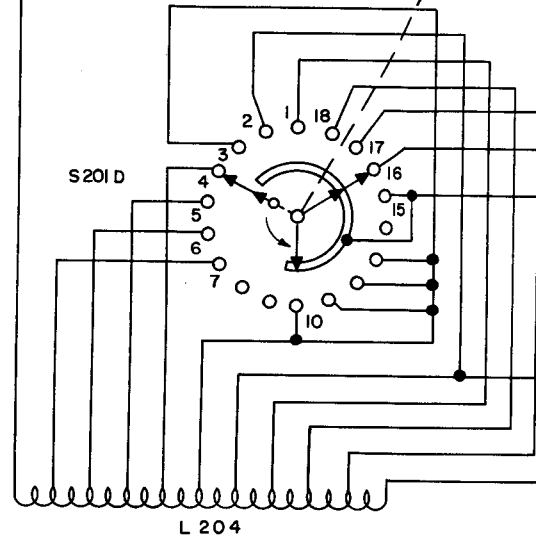
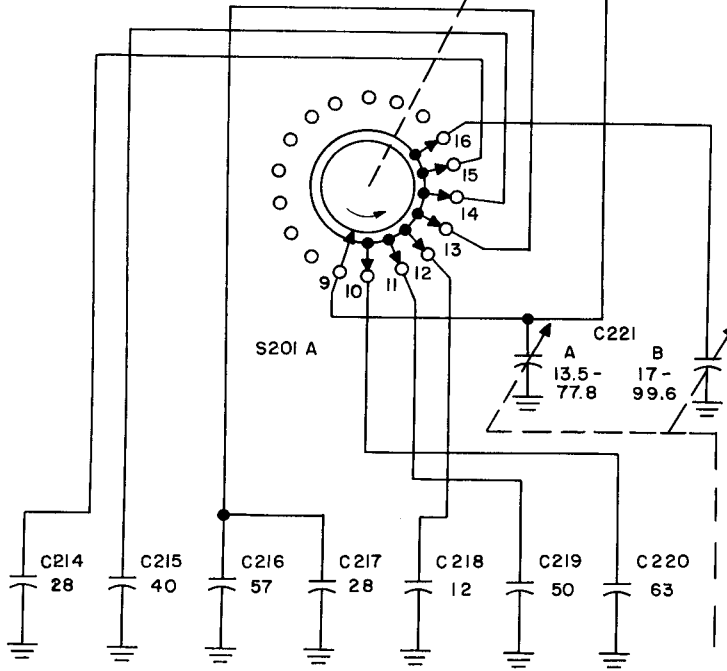
TM 806-31

ages, functional diagram.

390412 O -56 (In pocket) No. 2

FROM
POWER AMPL
PLATE CIRCUIT

C205 1,000



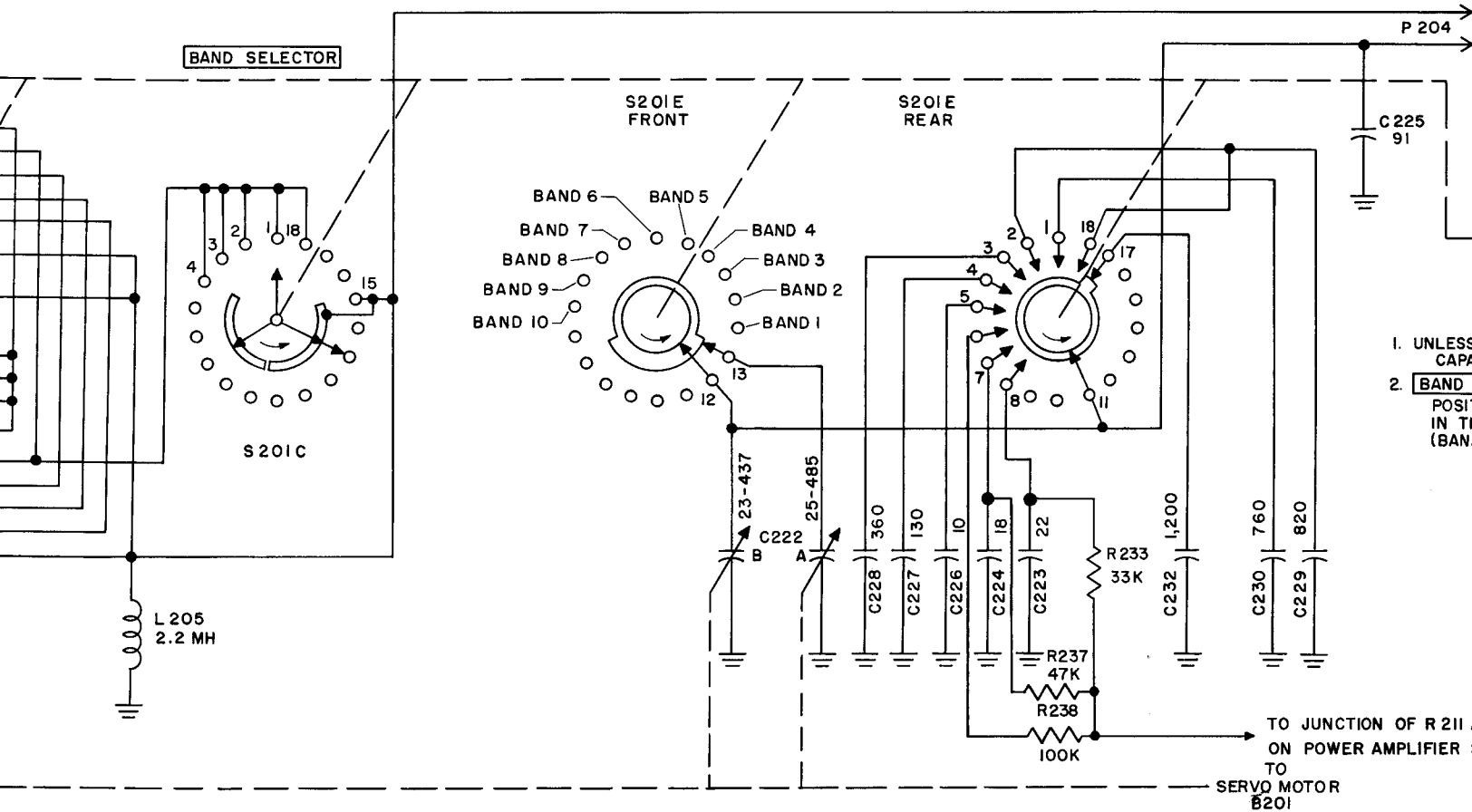
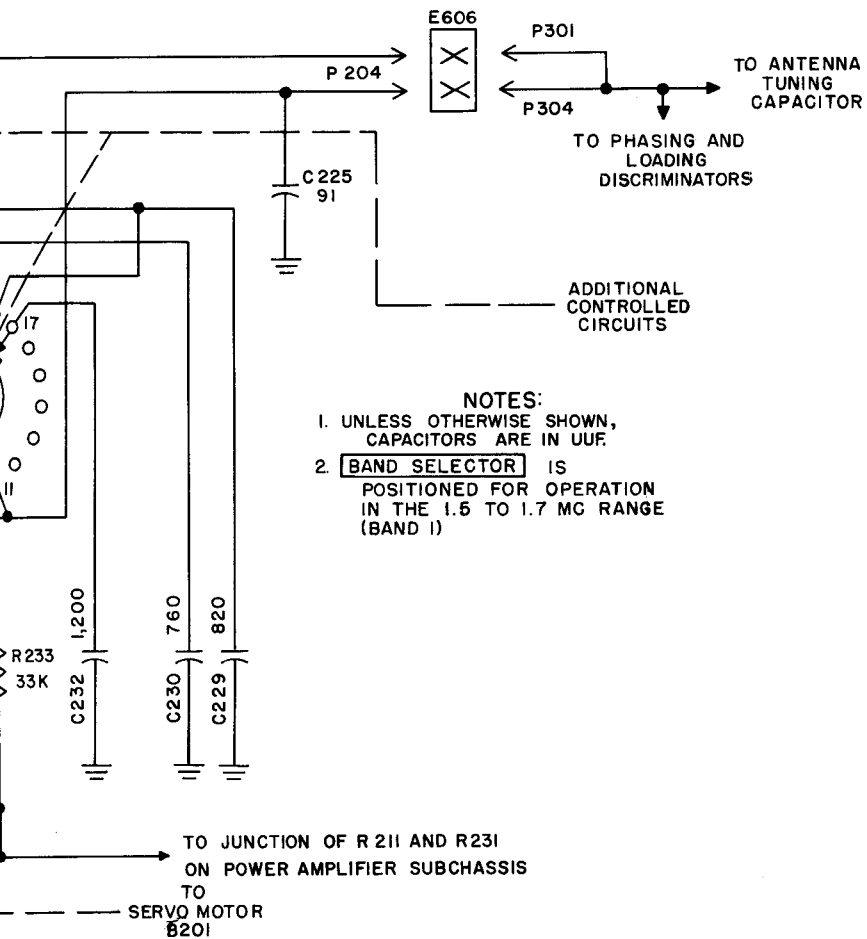


Figure 31. Power-amplifier plate circuit, functional diagram.



NOTES:

1. UNLESS OTHERWISE SHOWN, CAPACITORS ARE IN UUF.
2. **BAND SELECTOR** IS POSITIONED FOR OPERATION IN THE 1.5 TO 1.7 MC RANGE (BAND I)

TM 806-32

390412 O - 56 (In pocket) No. 3

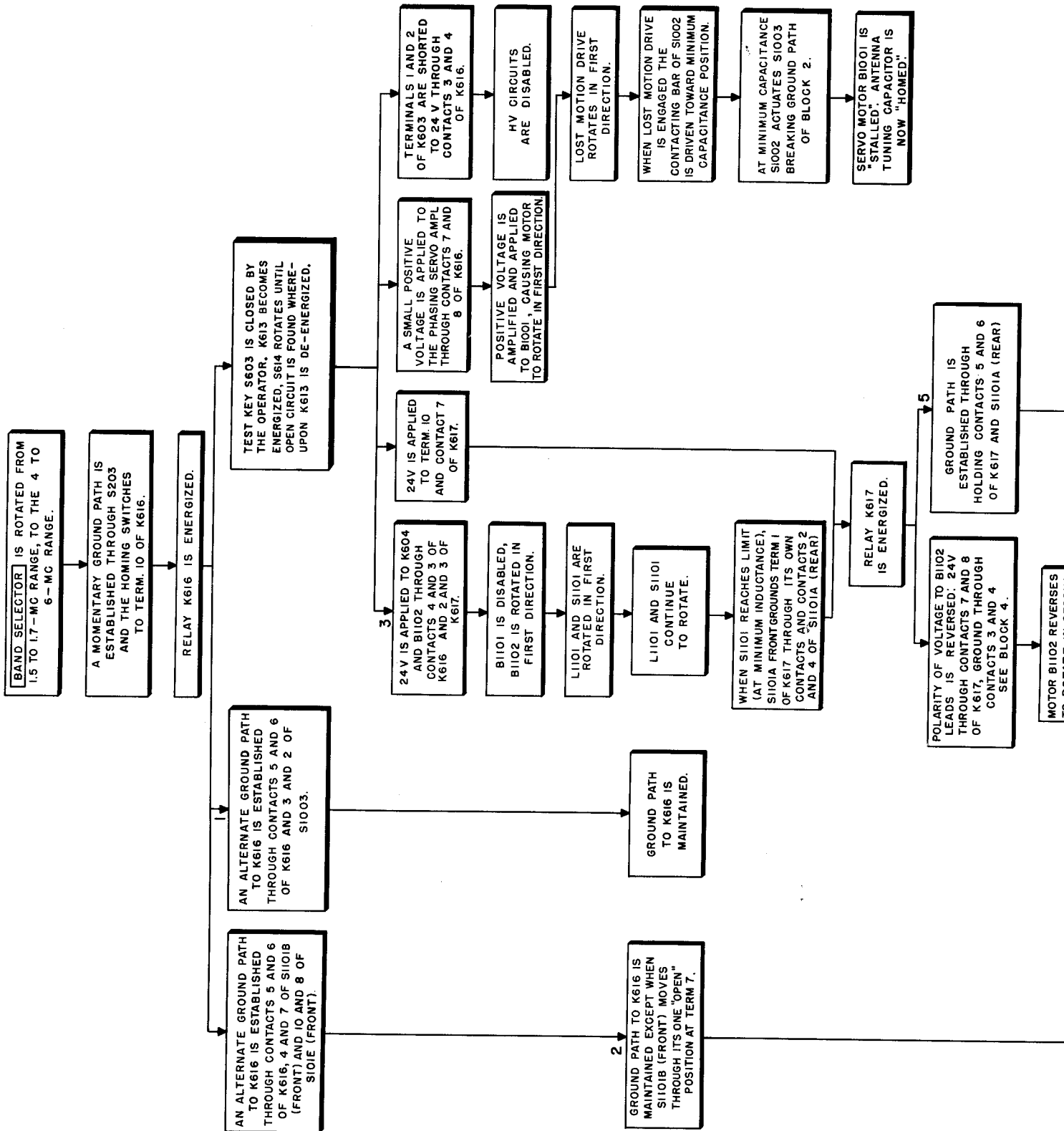
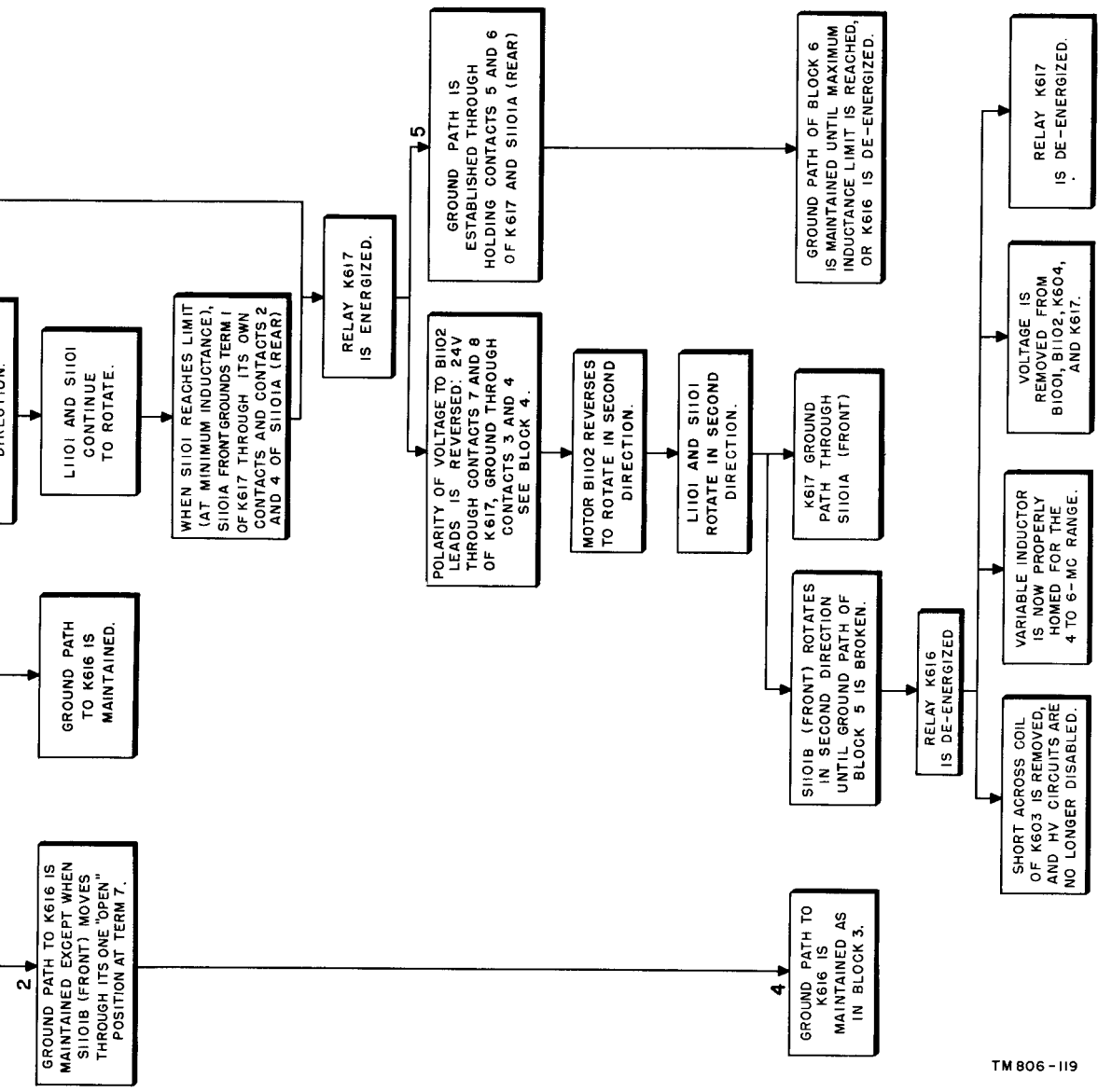
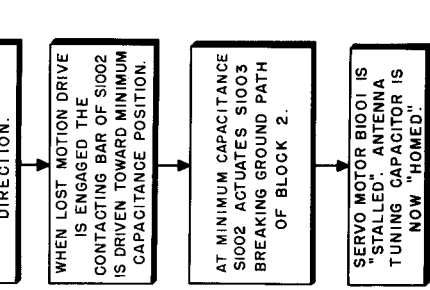


Figure 44. Homing cycle flow chart.



NOTES:

1. FIRST AND SECOND DIRECTIONS DESCRIBE ROTATION OF PARTS BEFORE AND AFTER MOTOR REVERSING.
2. OPERATION IS DESCRIBED FOR VOICE/FSK SETTING OF SERVICE SELECTOR.

TM 806-119

Figure 44. Homing cycle flow chart.

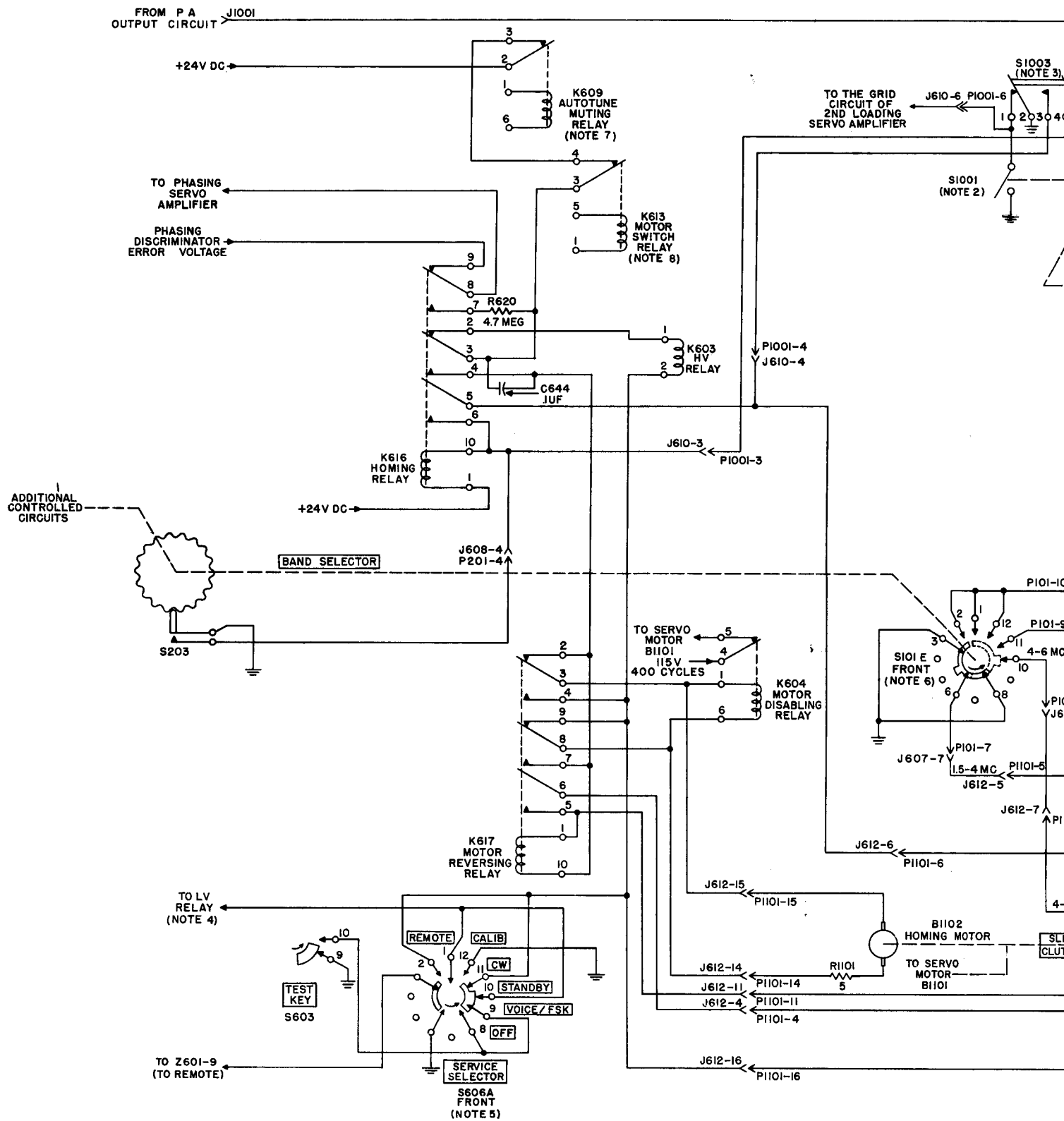
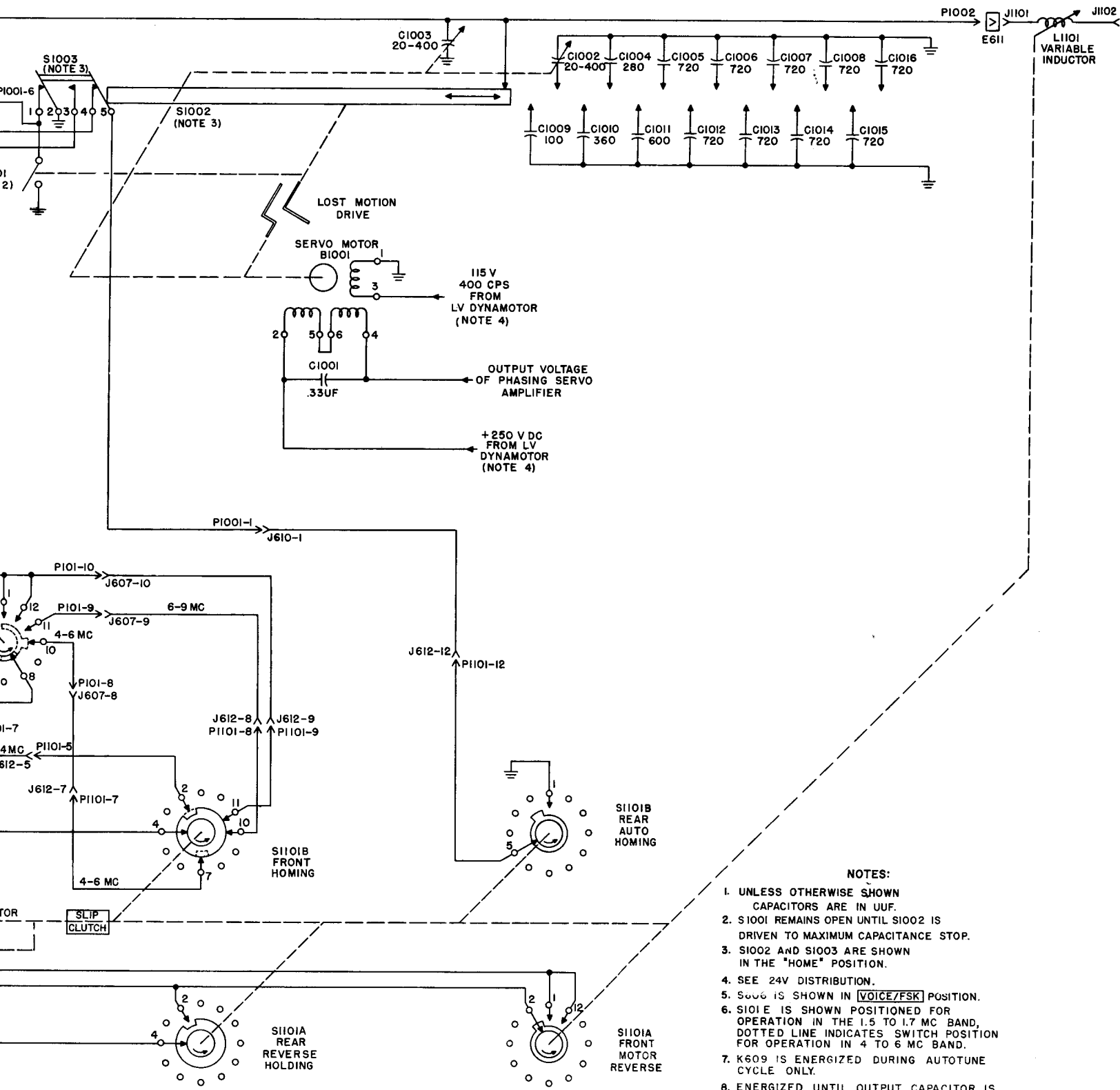


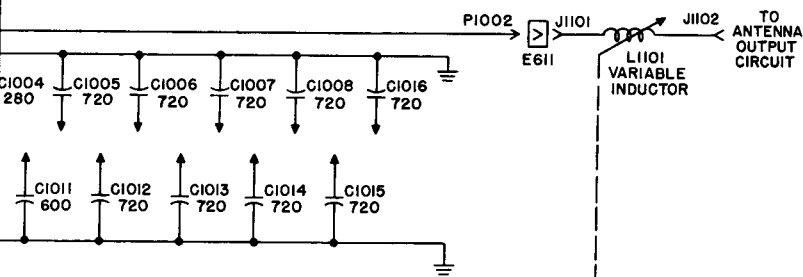
Figure 45. Homing



NOTES:

1. UNLESS OTHERWISE SHOWN CAPACITORS ARE IN UUF.
2. S1001 REMAINS OPEN UNTIL S1002 IS DRIVEN TO MAXIMUM CAPACITANCE STOP.
3. S1002 AND S1003 ARE SHOWN IN THE "HOME" POSITION.
4. SEE 24V DISTRIBUTION.
5. S606 IS SHOWN IN VOICE/FSK POSITION.
6. S101E IS SHOWN POSITIONED FOR OPERATION IN THE 1.5 TO 1.7 MC BAND, DOTTED LINE INDICATES SWITCH POSITION FOR OPERATION IN 4 TO 6 MC BAND.
7. K609 IS ENERGIZED DURING AUTOTUNE CYCLE ONLY.
8. ENERGIZED UNTIL OUTPUT CAPACITOR IS SELECTED.

5. Homing circuits, functional diagram.



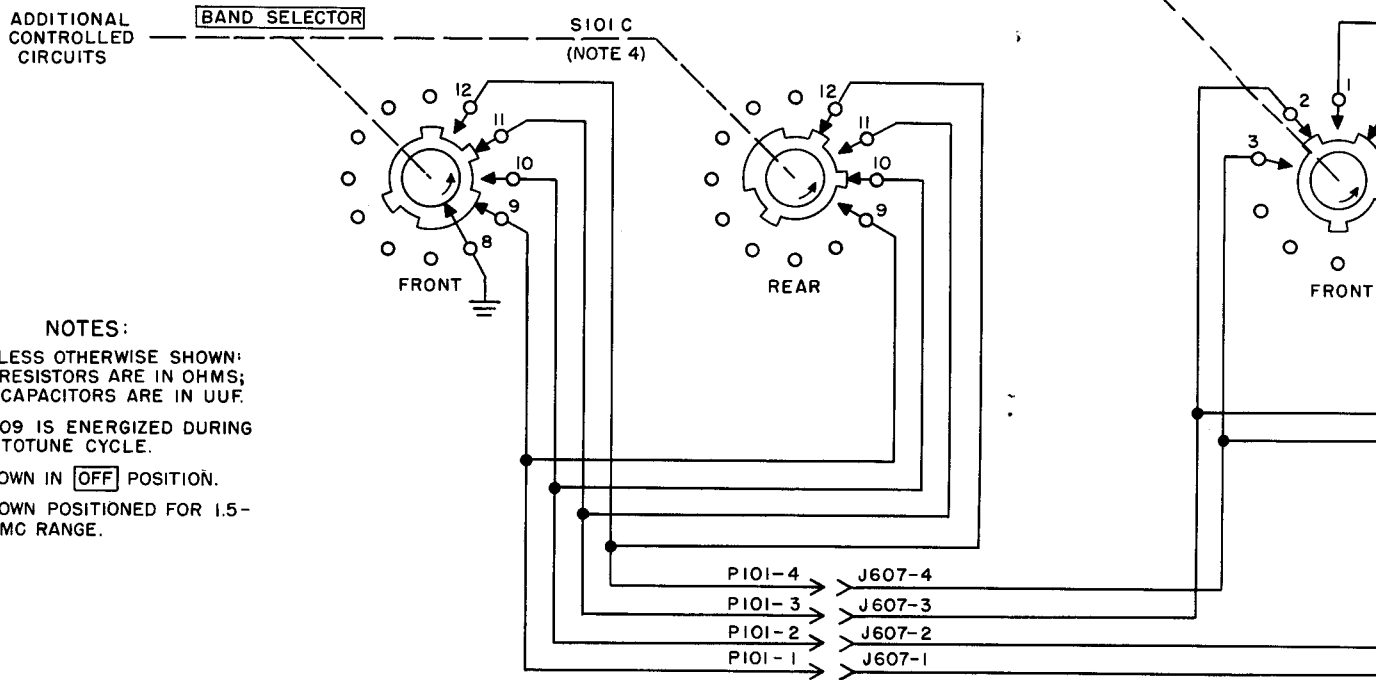
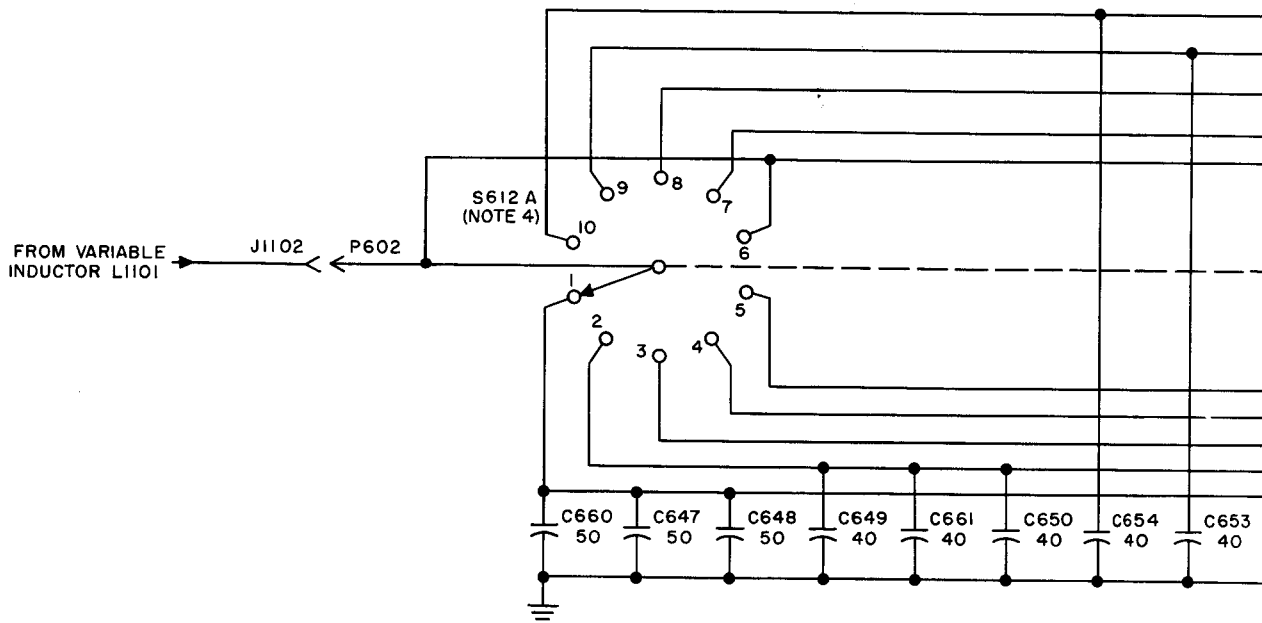
J1101B
REAR
AUTO
TUNING

NOTES:

1. UNLESS OTHERWISE SHOWN CAPACITORS ARE IN UUF.
2. S1001 REMAINS OPEN UNTIL S1002 IS DRIVEN TO MAXIMUM CAPACITANCE STOP.
3. S1002 AND S1003 ARE SHOWN IN THE "HOME" POSITION.
4. SEE 24V DISTRIBUTION.
5. S606 IS SHOWN IN VOICE/FSK POSITION.
6. S101E IS SHOWN POSITIONED FOR OPERATION IN THE 1.5 TO 1.7 MC BAND, DOTTED LINE INDICATES SWITCH POSITION FOR OPERATION IN 4 TO 6 MC BAND.
7. K609 IS ENERGIZED DURING AUTOTUNE CYCLE ONLY.
8. ENERGIZED UNTIL OUTPUT CAPACITOR IS SELECTED.

J1101A
FRONT
MOTOR
REVERSE

TM 806 -43



- NOTES:
1. UNLESS OTHERWISE SHOWN: RESISTORS ARE IN OHMS; CAPACITORS ARE IN UUF.
 2. K609 IS ENERGIZED DURING AUTOTUNE CYCLE.
 3. SHOWN IN **OFF** POSITION.
 4. SHOWN POSITIONED FOR 1.5-1.7 MC RANGE.

Figure 52. Ou

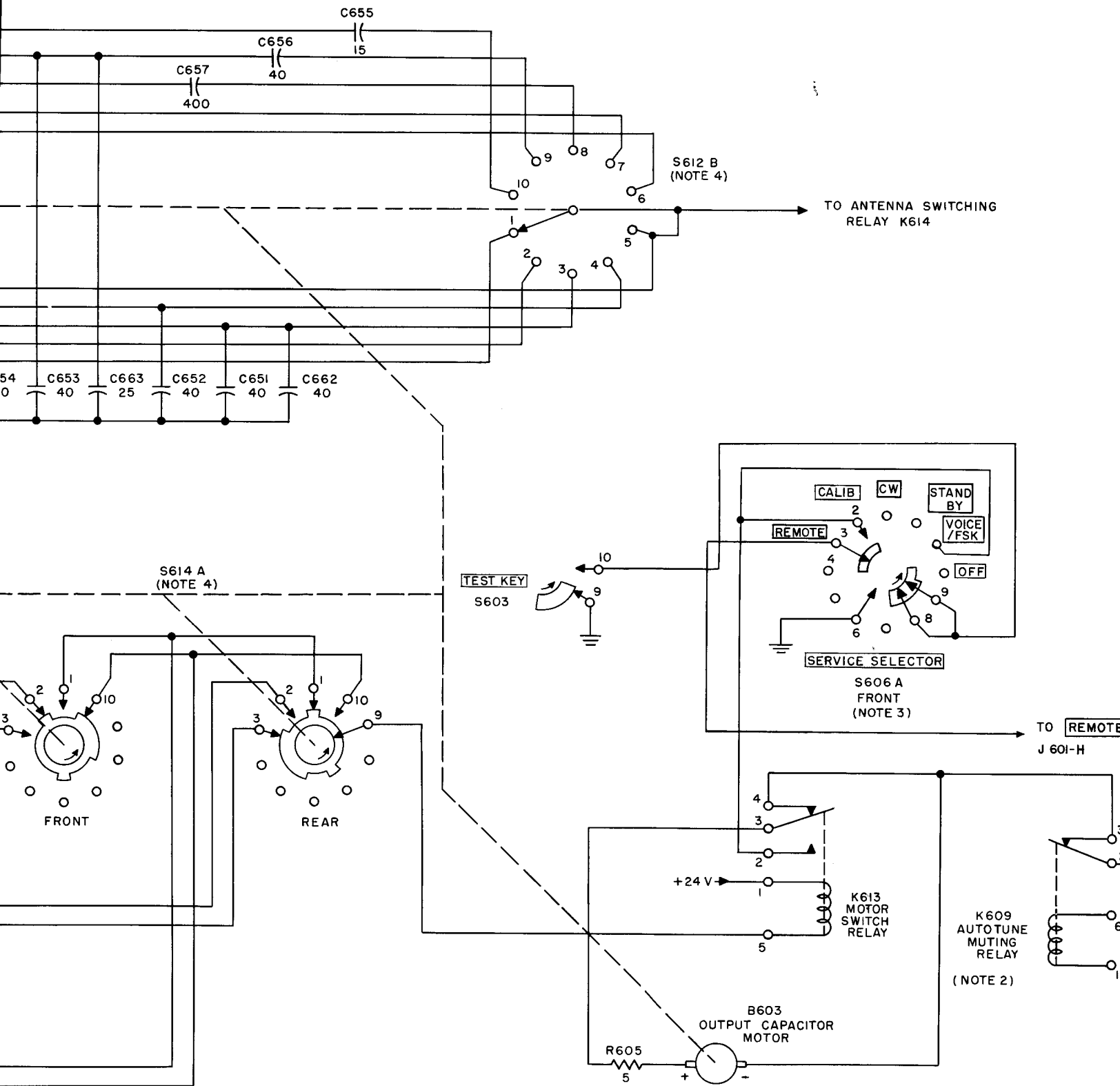
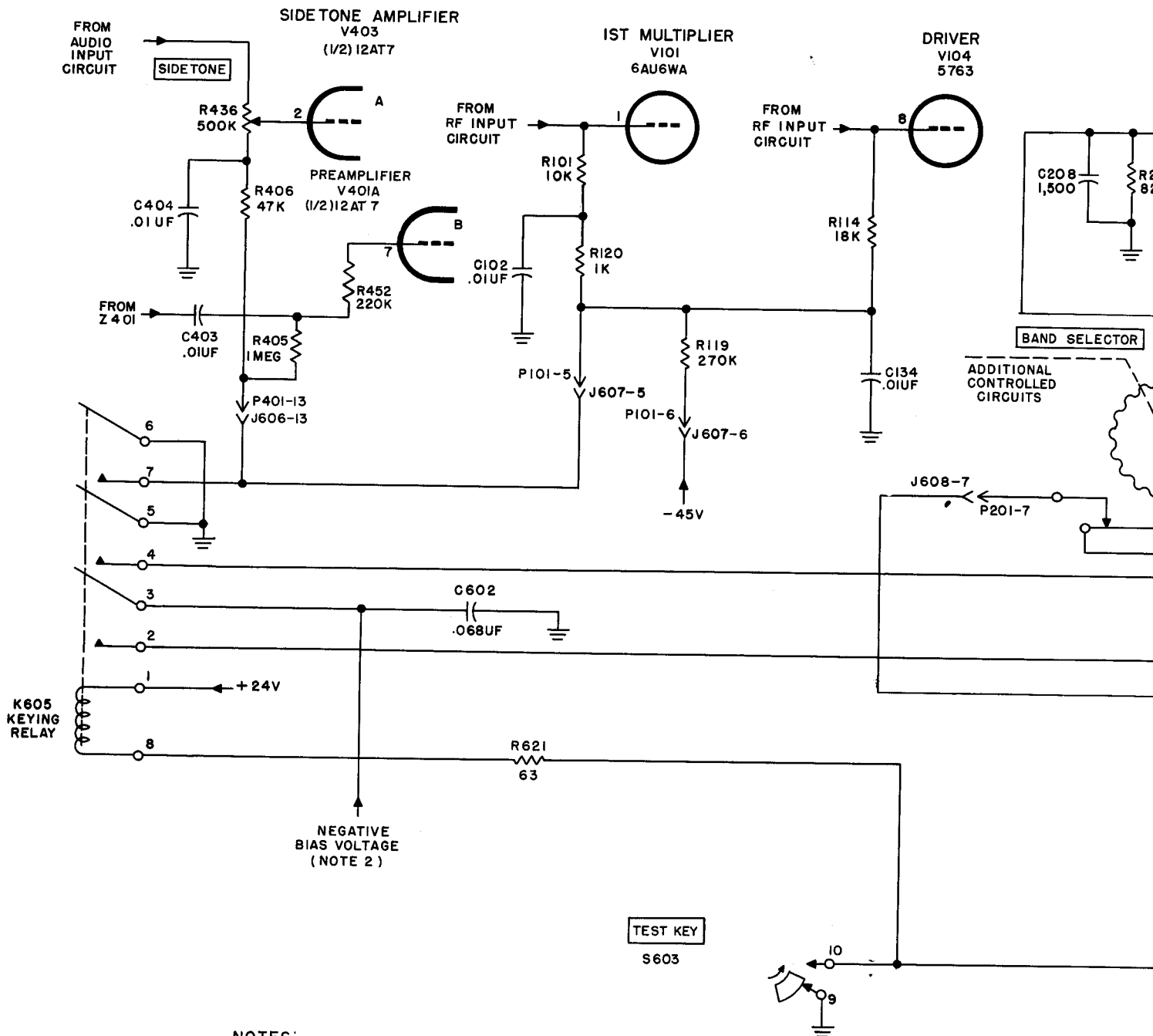
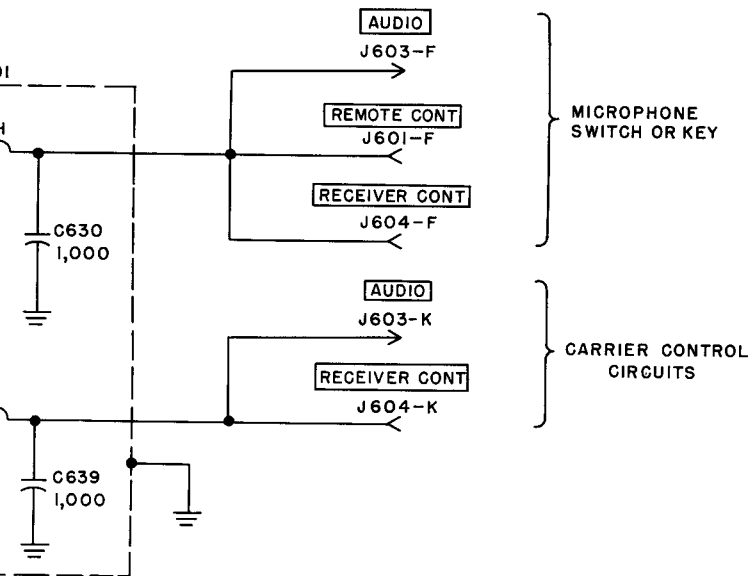
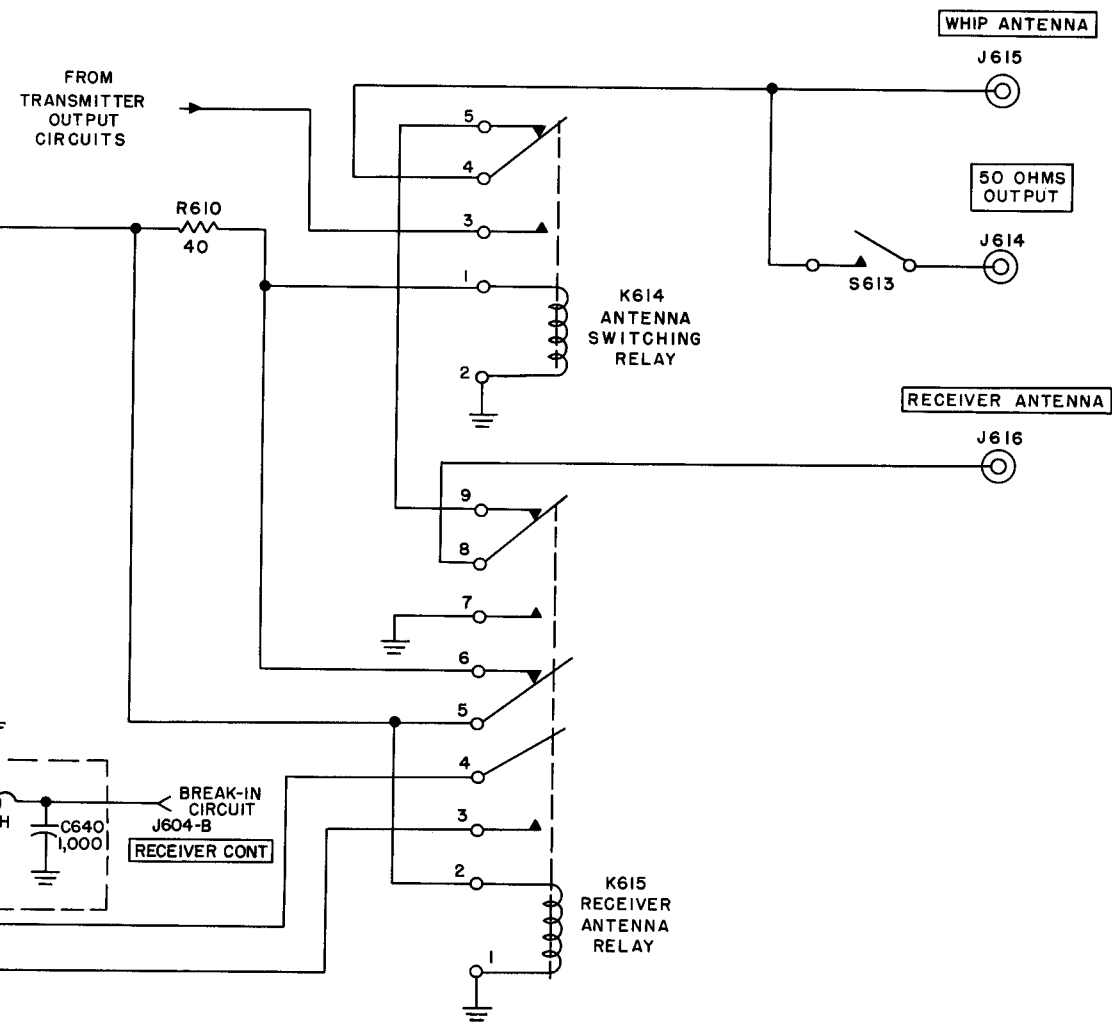


Figure 52. Output capacitor, functional diagram.



NOTES:

- UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN UUF.
- S602 IS SHOWN IN RELAY
POSITION.



TM 806-51

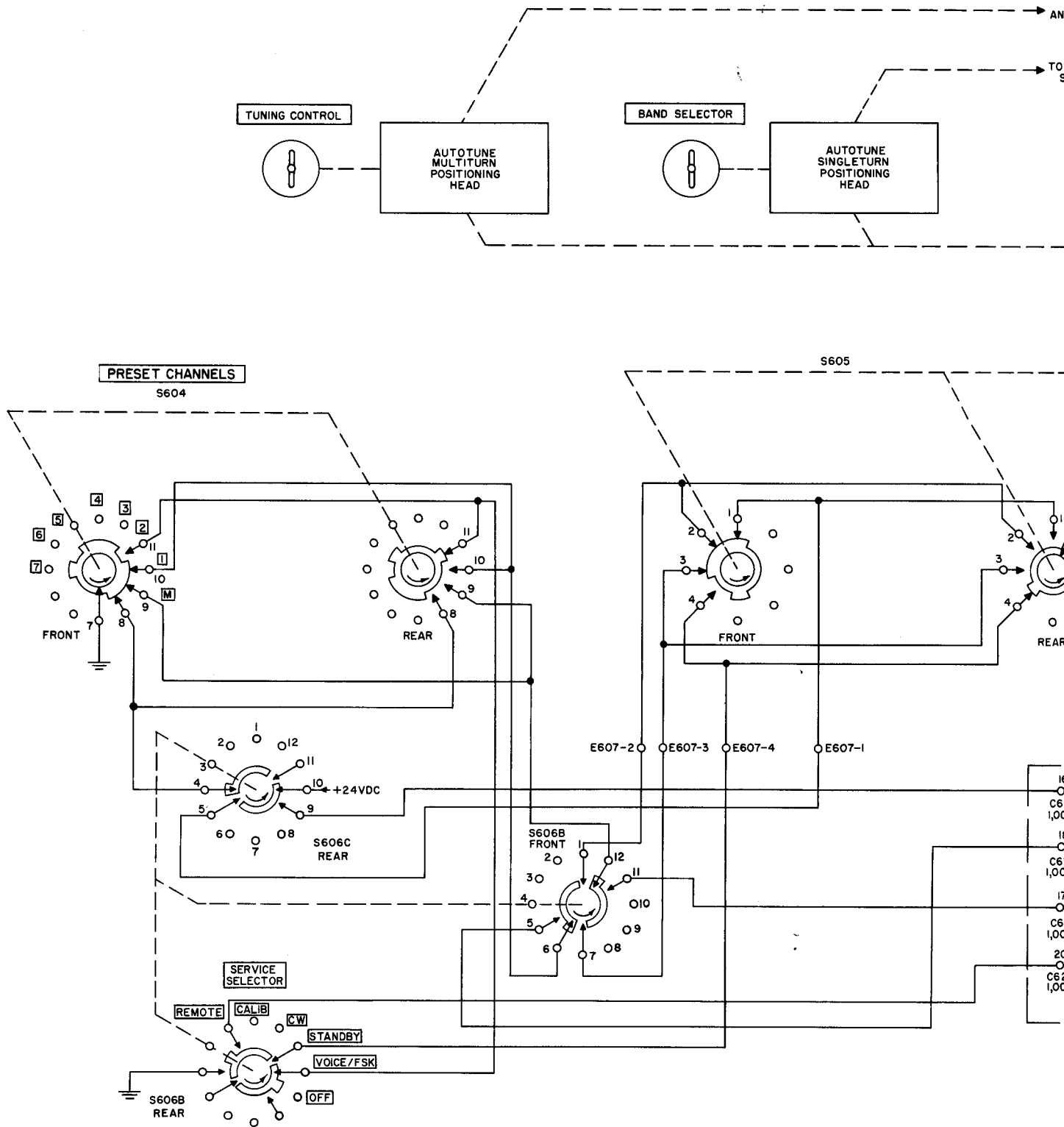
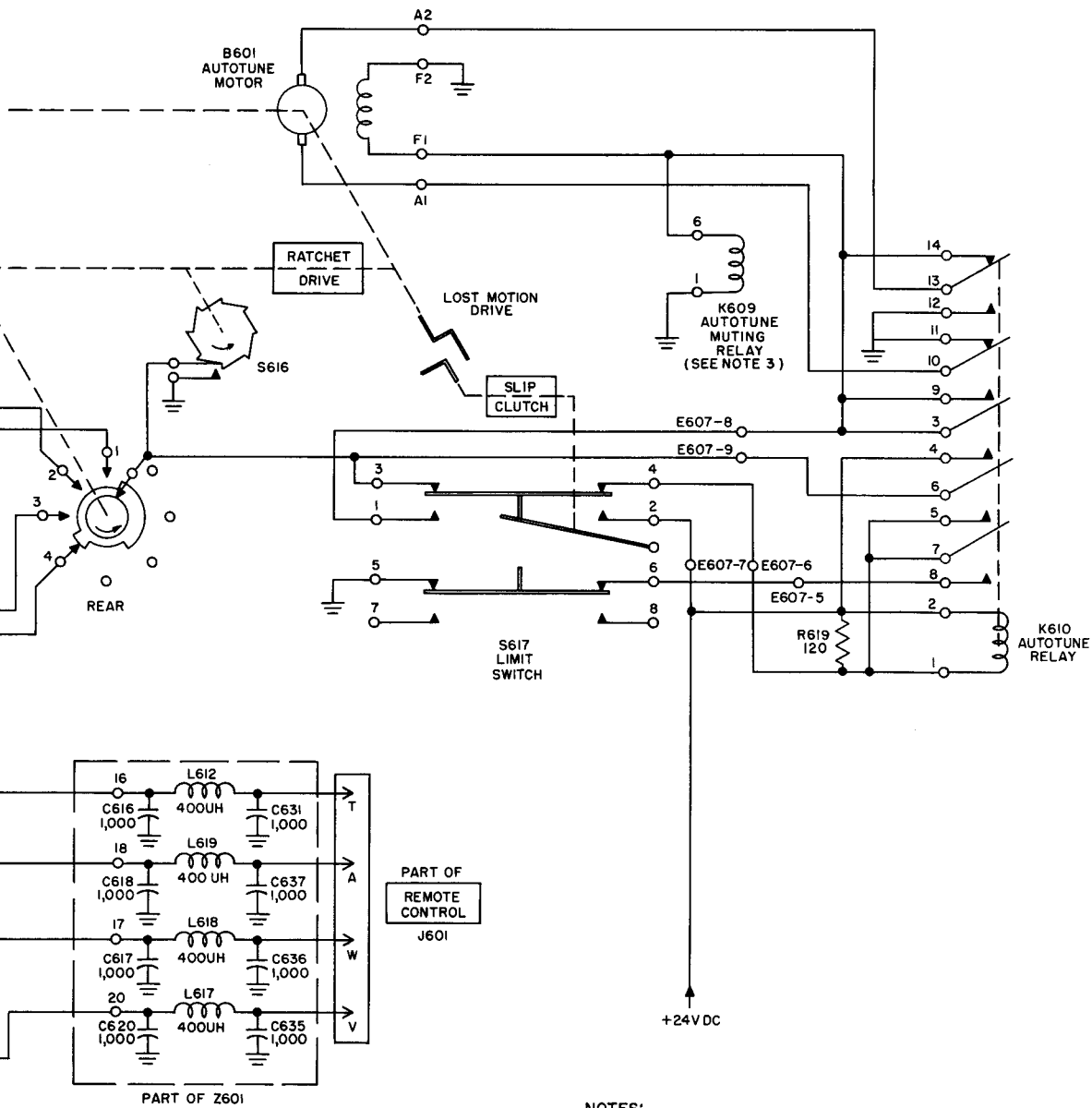


Figure 55. Autotune control circuits, function

TO MASTER OSCILLATOR
AND EXCITER TUNING CORES

TO BANDSWITCHES
S101 AND S201



NOTES:

1. S606 IS SHOWN IN OFF POSITION.
2. S604 IS SHOWN IN (M) (MANUAL) POSITION.
3. SEE +24-VOLT DISTRIBUTION.
4. UNLESS OTHERWISE SHOWN: CAPACITORS ARE IN UUF.

TM 806-52

390412 O - 56 (In pocket) No. 8

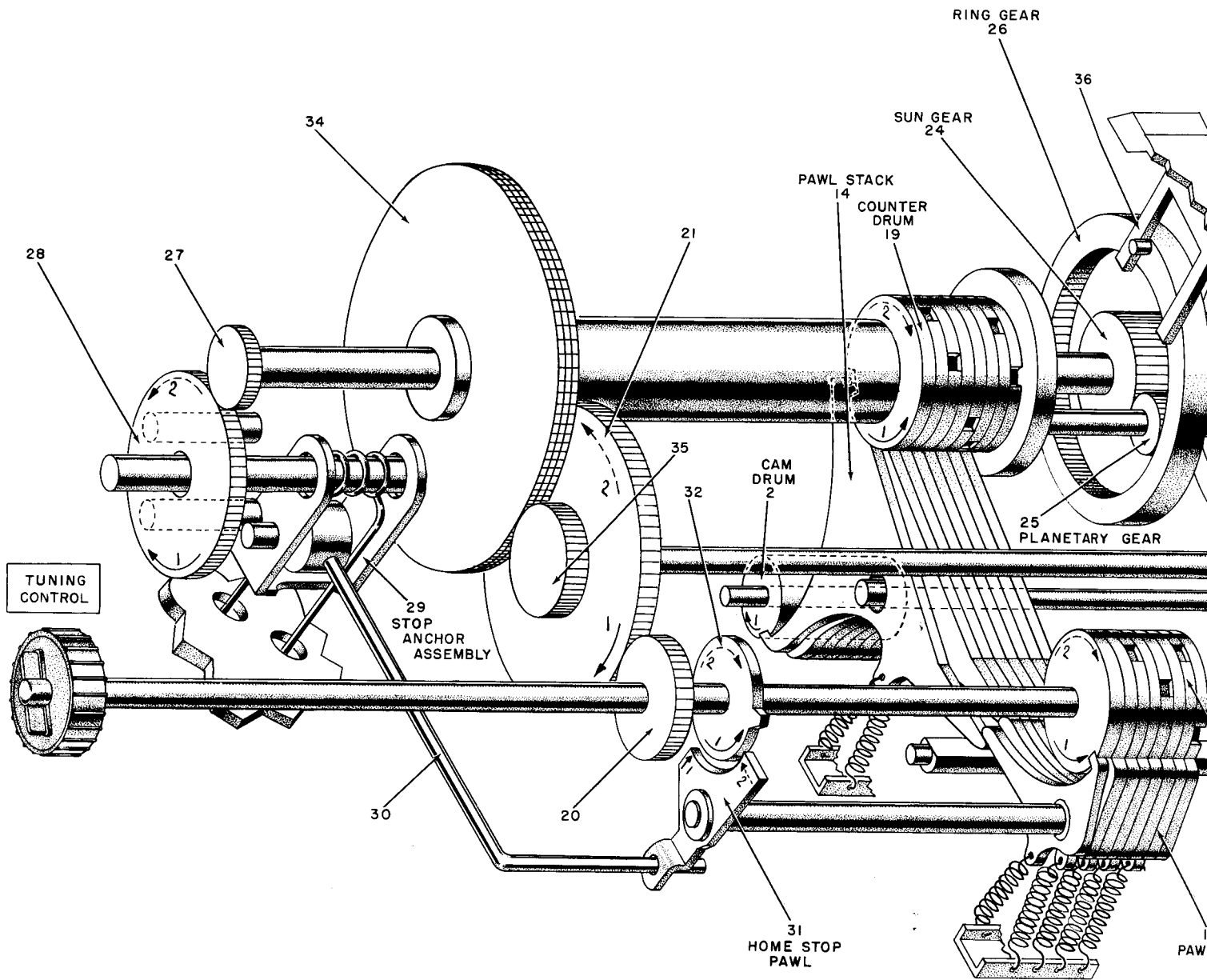
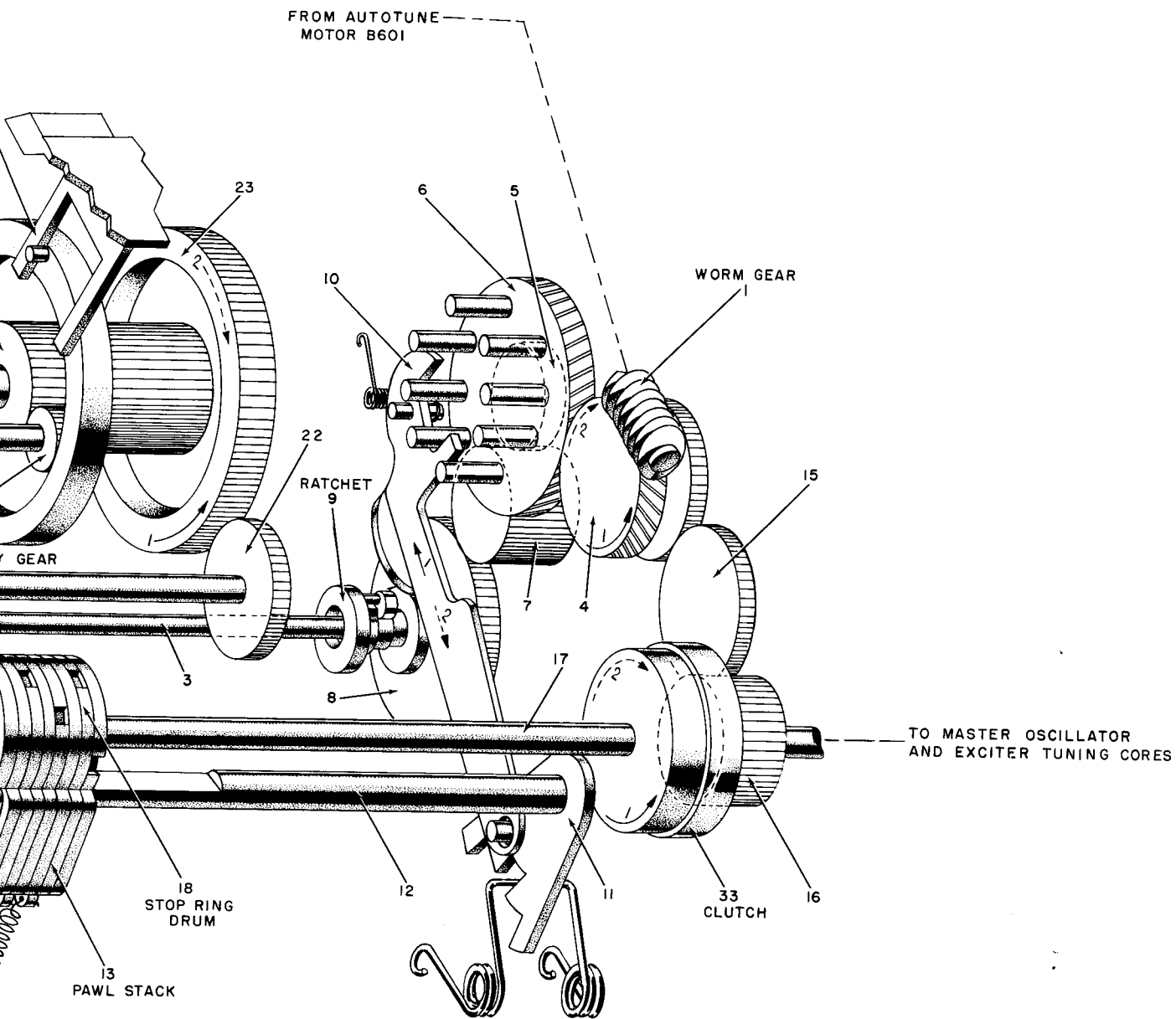


Figure 57. Multiturn positioning head, re



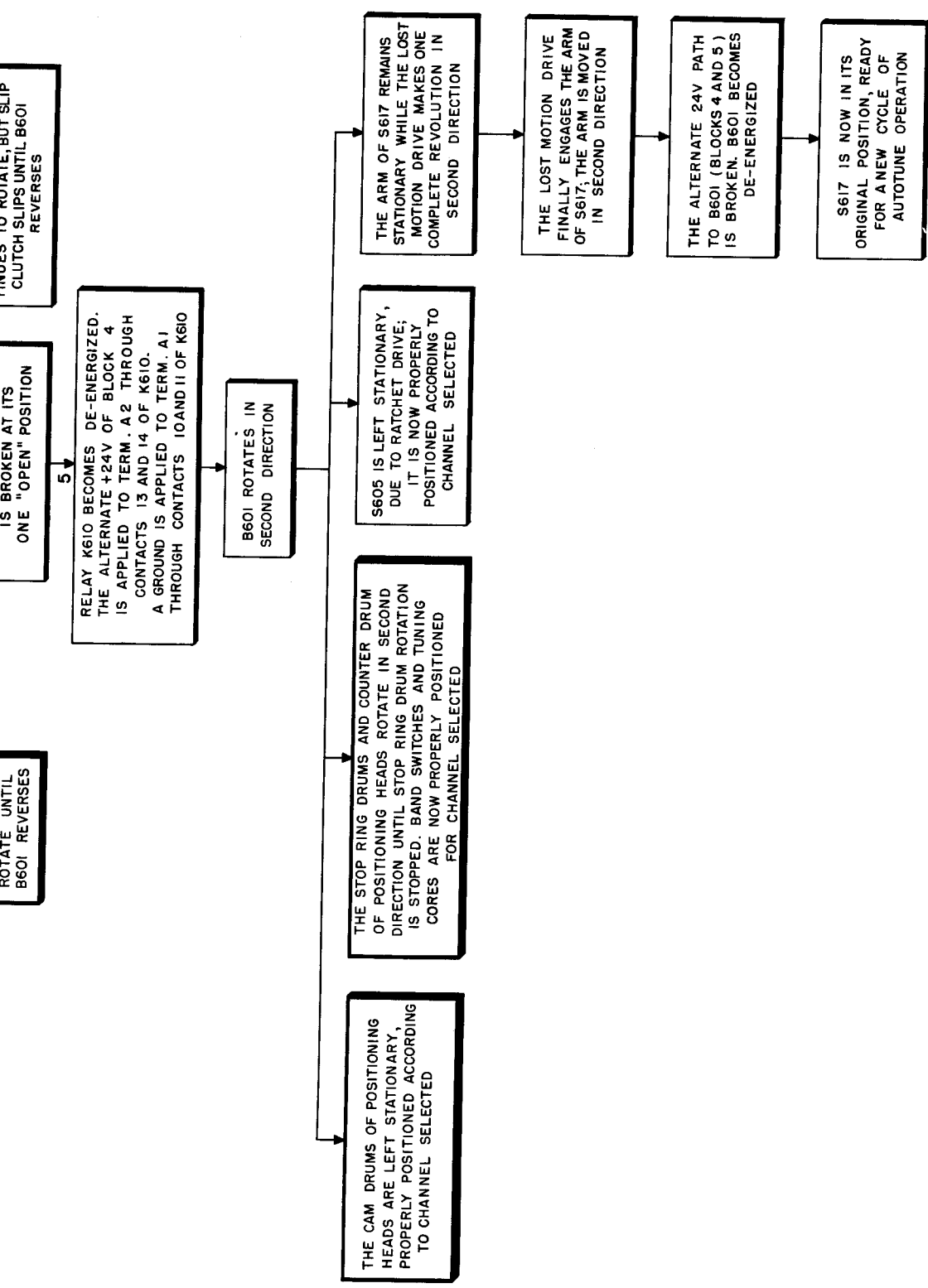
NOTE:

THIS IS A REPRESENTATIVE DRAWING.
PARTS ARE NOT NECESSARILY DRAWN
TO SCALE.

TM 806-54

390412 O - 56 (In pocket) No. 9

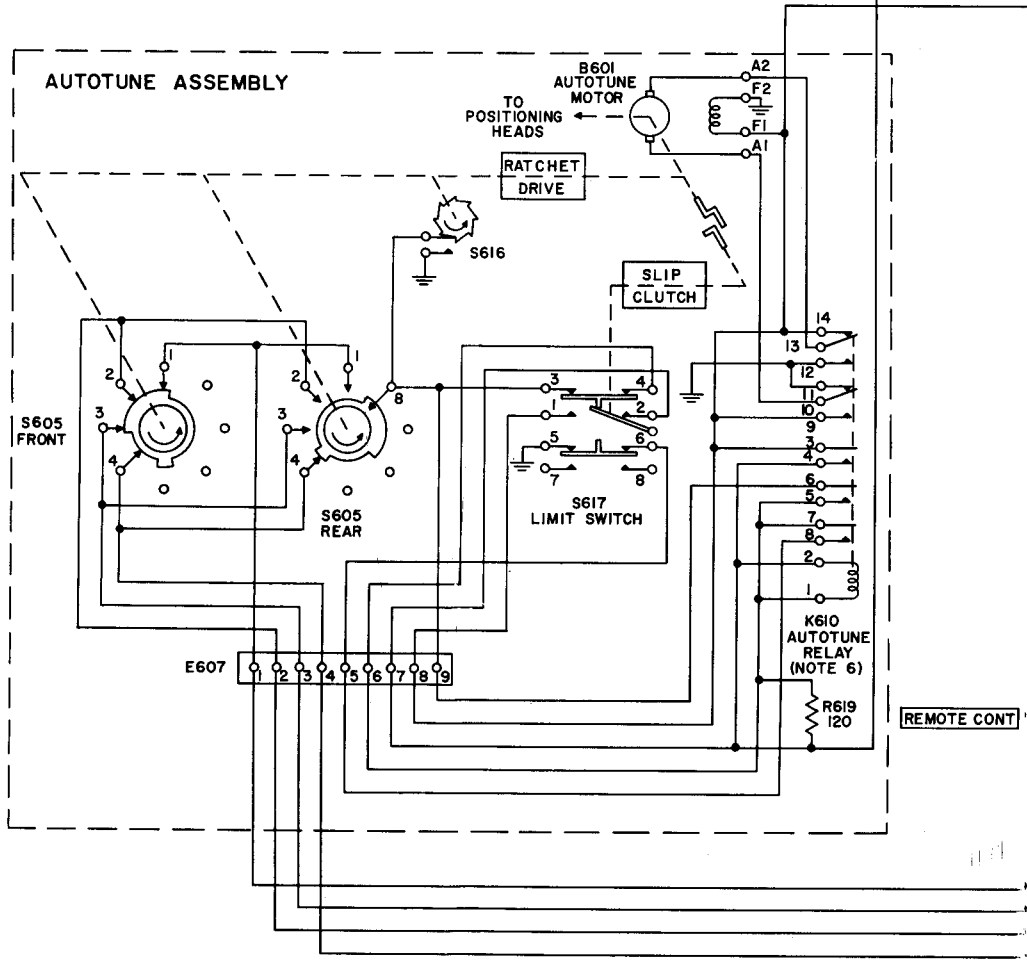
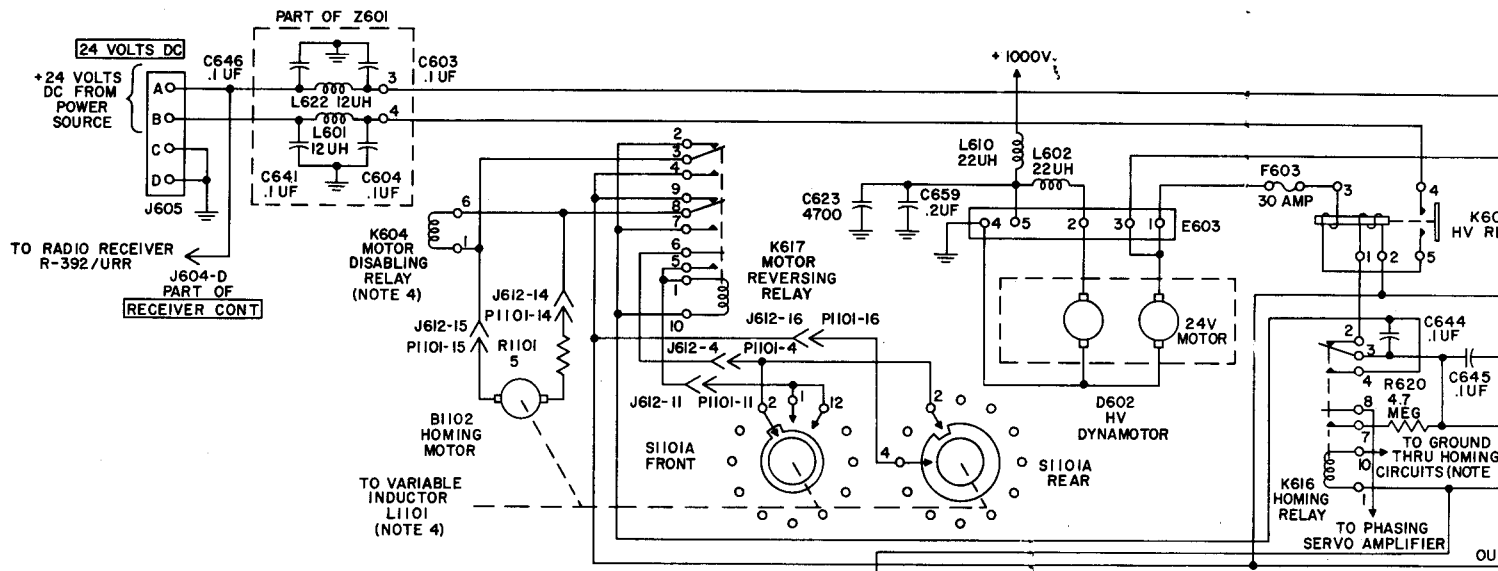
ing head, representative drawing.



TM 806-55

390412 O - 56 (In pocket) No. 10

Figure 58. Autotune circuits, flow chart.



Terminal	Component	Value	Component	Value
J601-J	REMOTE CONT		C664	1000
J603-C	AUDIO		C605	1000
J604-C	RECEIVER CONT		L606	400UH
J601-H	REMOTE CONT		C609	1000
J601-C	REMOTE CONT		C626	1000
J601-E	REMOTE CONT		C625	1000
J601-S	REMOTE CONT		C627	1000
J601-T	REMOTE CONT		C665	1000
J601-F	REMOTE CONT		C631	1000
J603-F	AUDIO		C628	1000
J604-F	RECEIVER CONT		C630	1000
J603-K	AUDIO		C639	1000
J604-K	RECEIVER CONT		C635	1000
J601-V	REMOTE CONT		C628	1000
J601-U	REMOTE CONT		C636	1000
J601-W	REMOTE CONT		C637	1000
J601-A	REMOTE CONT			

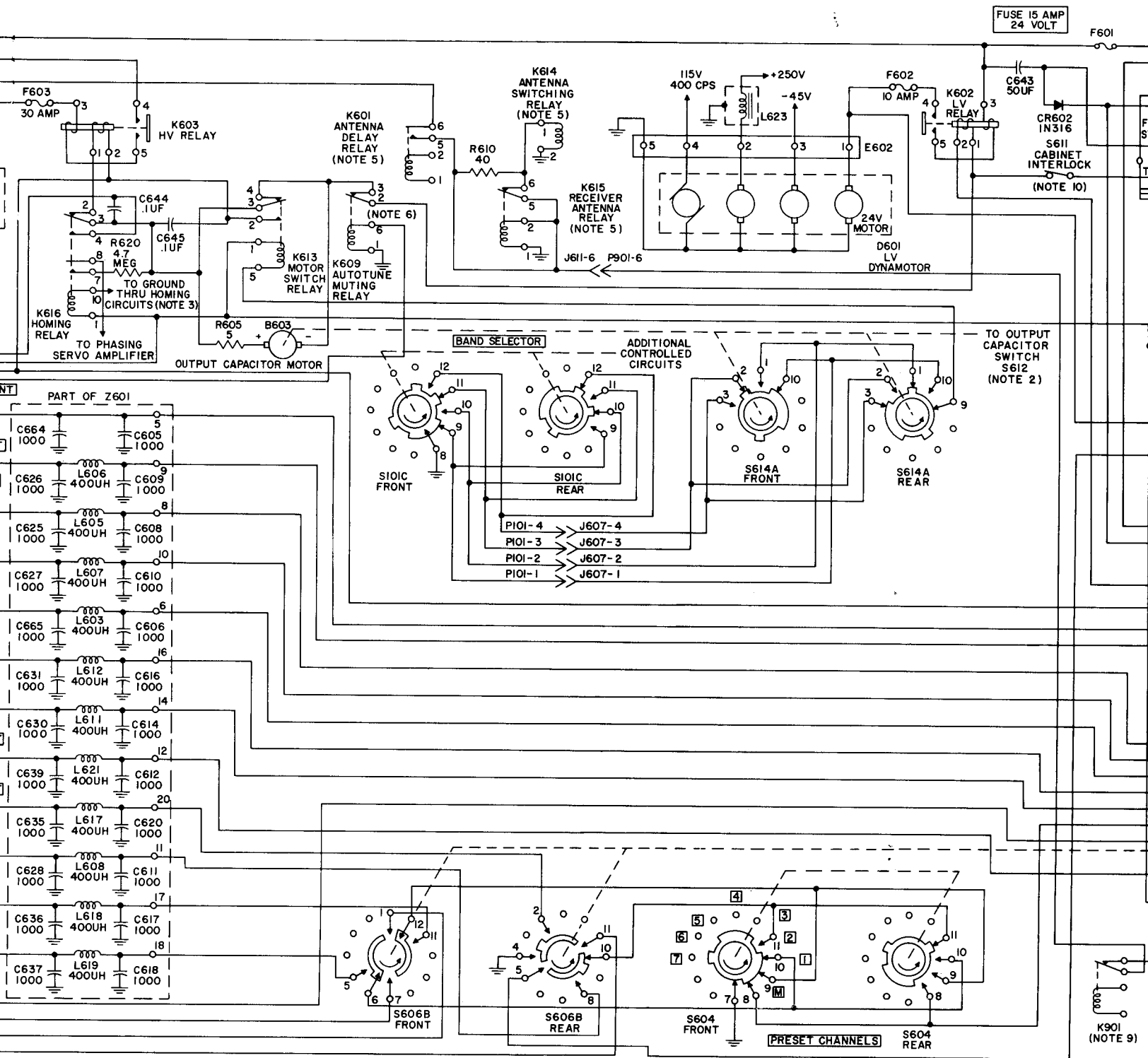
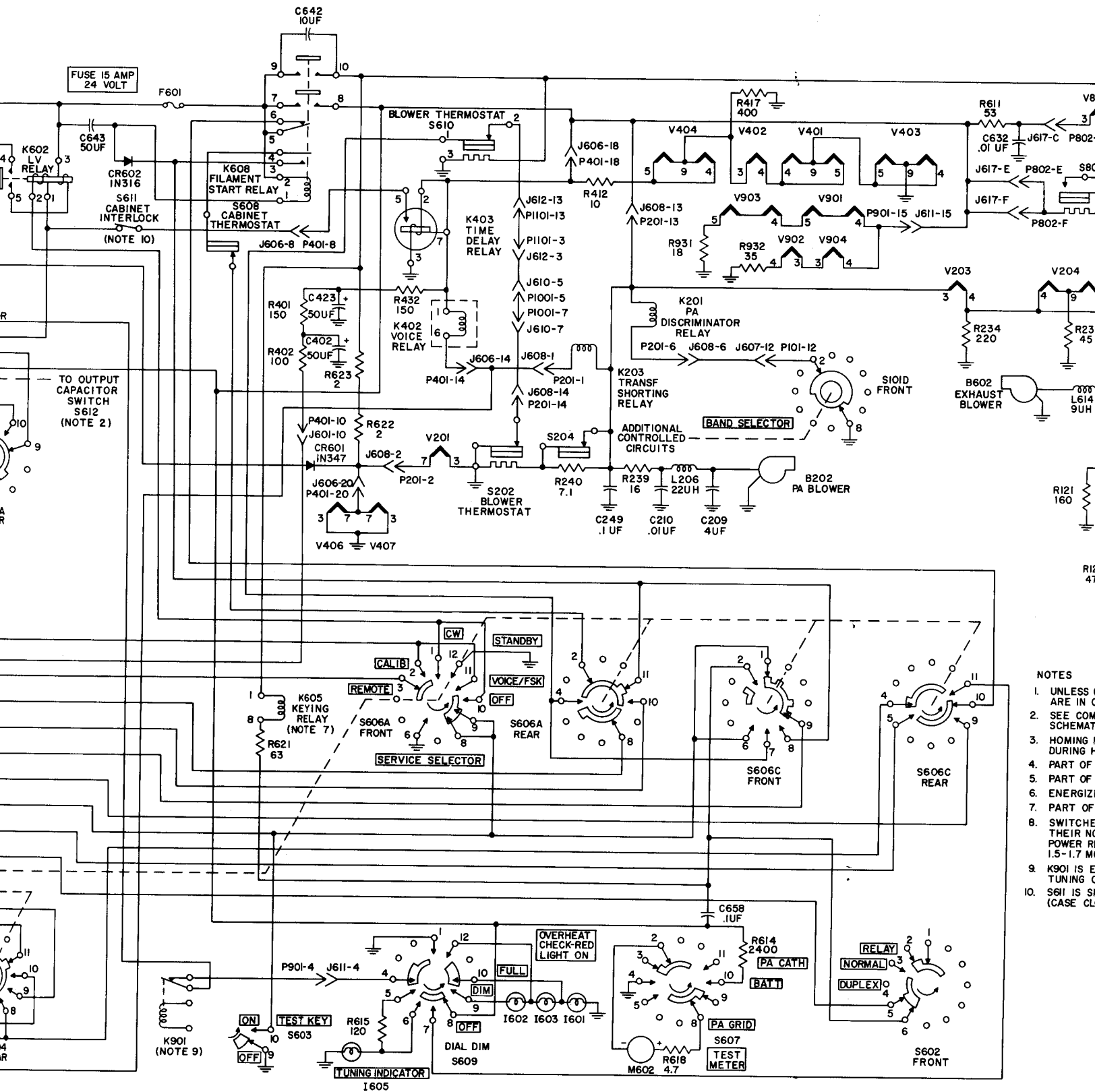
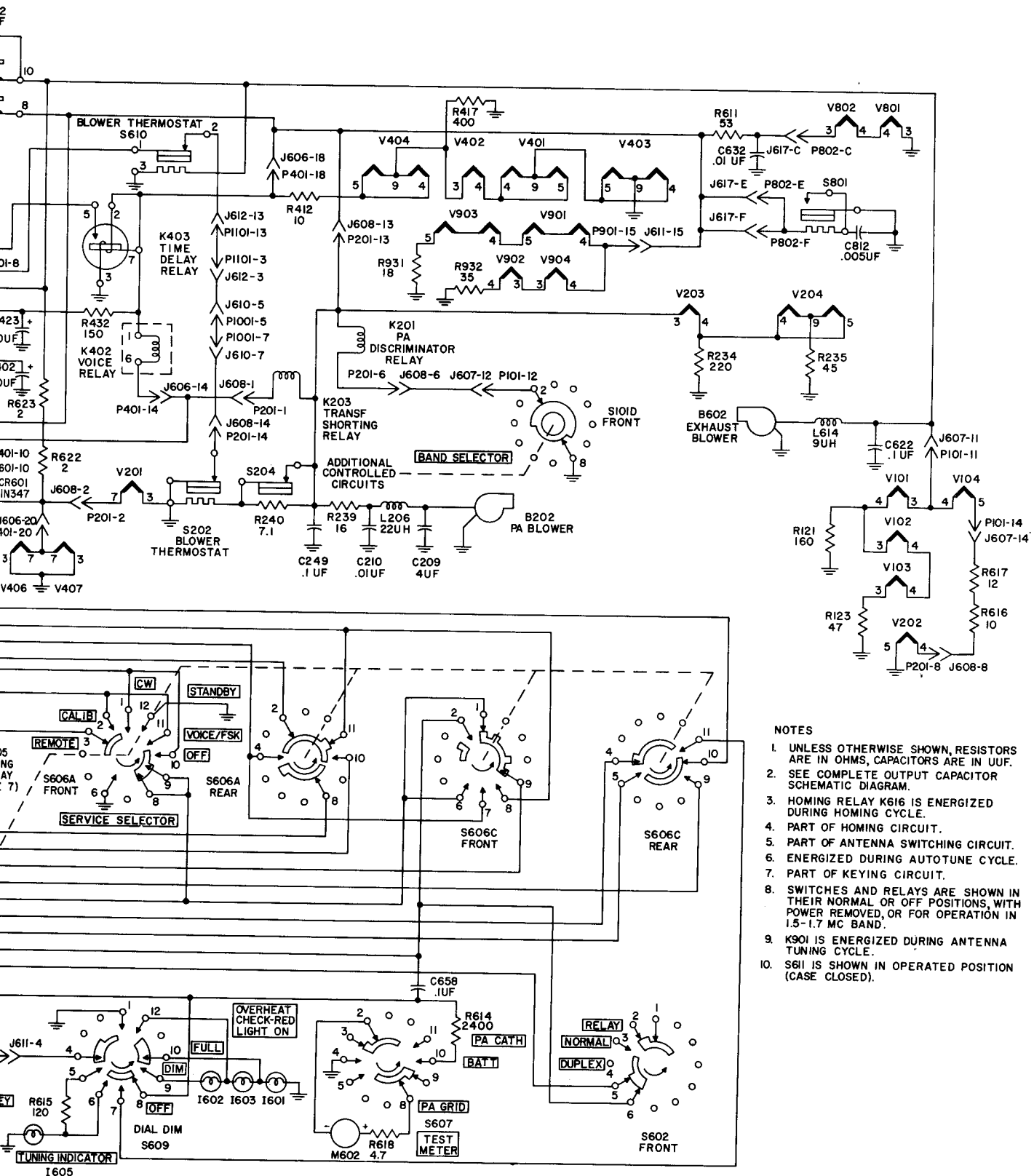


Figure 61. +24-volt distribution, functional diagram.



NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE IN O.S.
2. SEE COMPONENT LIST FOR PART OF SCHEMATIC.
3. HOMING SWITCH IS OPERATED DURING POWER ON.
4. PART OF SCHEMATIC.
5. PART OF SCHEMATIC.
6. ENERGIZED BY POWER ON.
7. PART OF SCHEMATIC.
8. SWITCHES ARE OPERATED BY THEIR NORMAL POWER RATING (1.5-1.7 MA).
9. K901 IS ENERGIZED BY POWER ON.
10. S61 IS SWITCHED BY POWER ON (CASE CL).



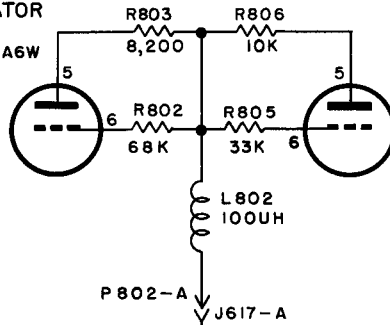
NOTES

1. UNLESS OTHERWISE SHOWN, RESISTORS ARE IN OHMS, CAPACITORS ARE IN UUF.
2. SEE COMPLETE OUTPUT CAPACITOR SCHEMATIC DIAGRAM.
3. HOMING RELAY K616 IS ENERGIZED DURING HOMING CYCLE.
4. PART OF HOMING CIRCUIT.
5. PART OF ANTENNA SWITCHING CIRCUIT.
6. ENERGIZED DURING AUTOTUNE CYCLE.
7. PART OF KEYING CIRCUIT.
8. SWITCHES AND RELAYS ARE SHOWN IN THEIR NORMAL OR OFF POSITIONS, WITH POWER REMOVED, OR FOR OPERATION IN 1.5-1.7 MC BAND.
9. K901 IS ENERGIZED DURING ANTENNA TUNING CYCLE.
10. S611 IS SHOWN IN OPERATED POSITION (CASE CLOSED).

TM 806-57

BUFFER AMPL
V802
5749/6BA6W

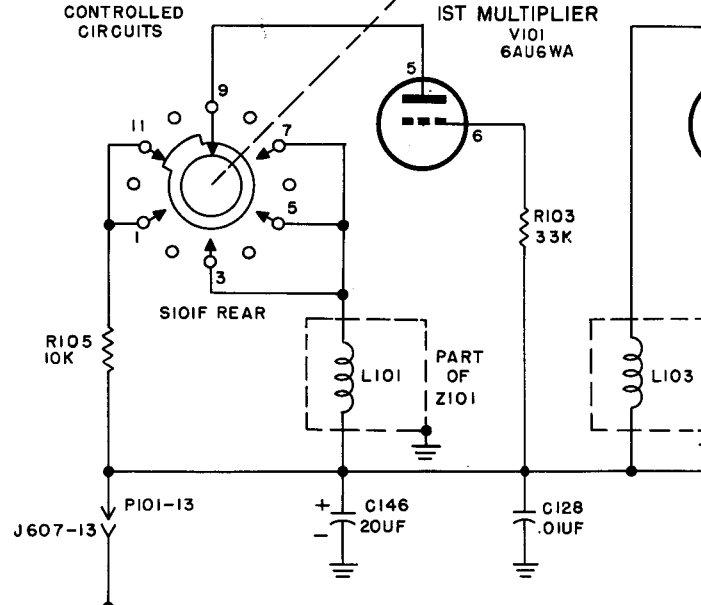
OSCILLATOR
V801
5749/6BA6W



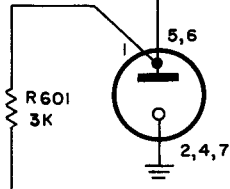
BAND SELECTOR

ADDITIONAL CONTROLLED CIRCUITS

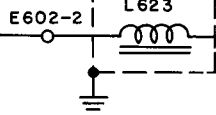
1ST MULTIPLIER
V101
6AU6WA



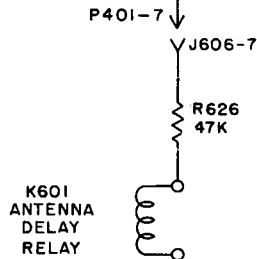
VOLTAGE REGULATOR
V601
0A2



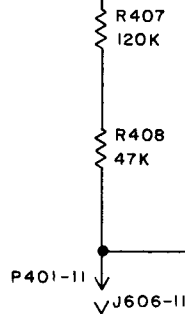
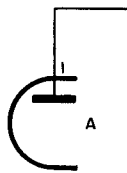
FROM LV DYNAMOTOR D601



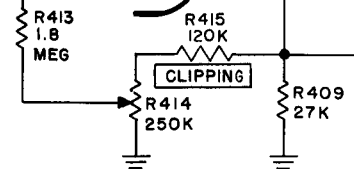
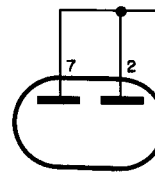
ANTENNA DELAY TUBE
V403
(1/2) 12AT7



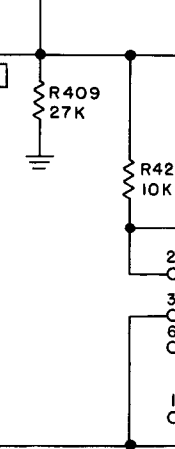
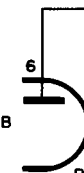
PREAMPLIFIER
V401
(1/2) 12AT7



LIMITER
V402
5726/6AL5W



1ST AUDIO AMPL
V401
(1/2) 12AT7



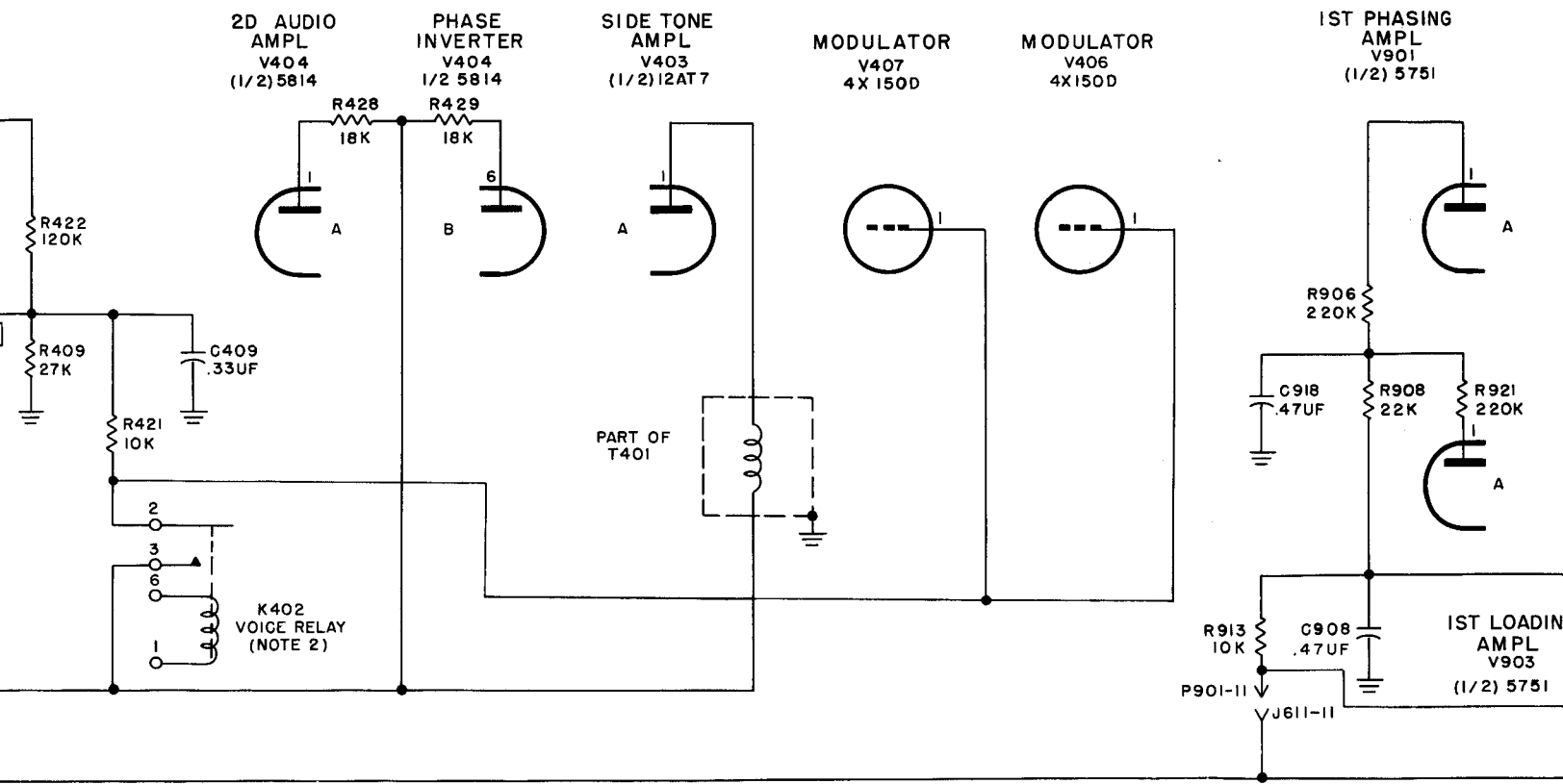
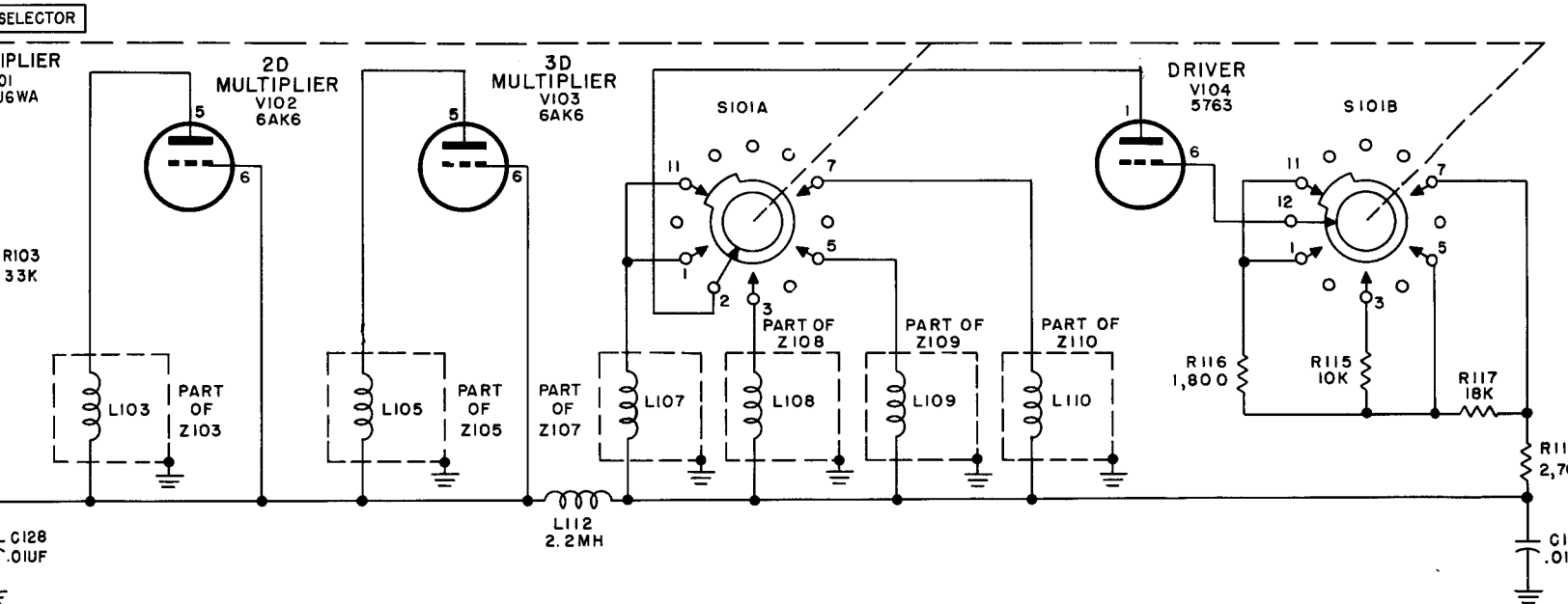
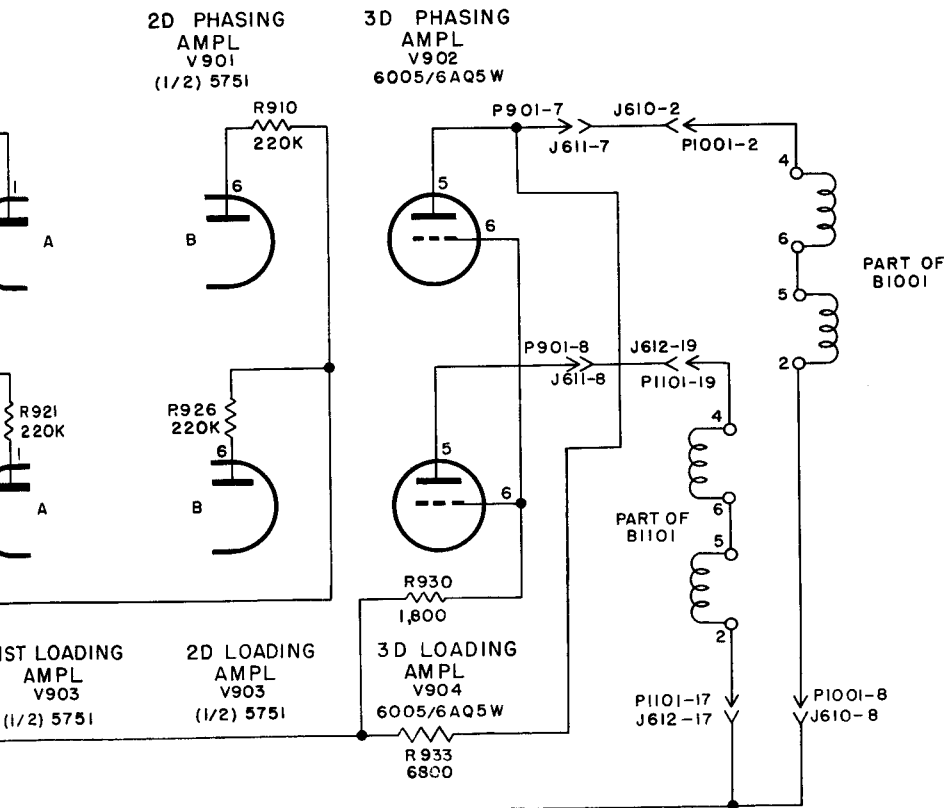
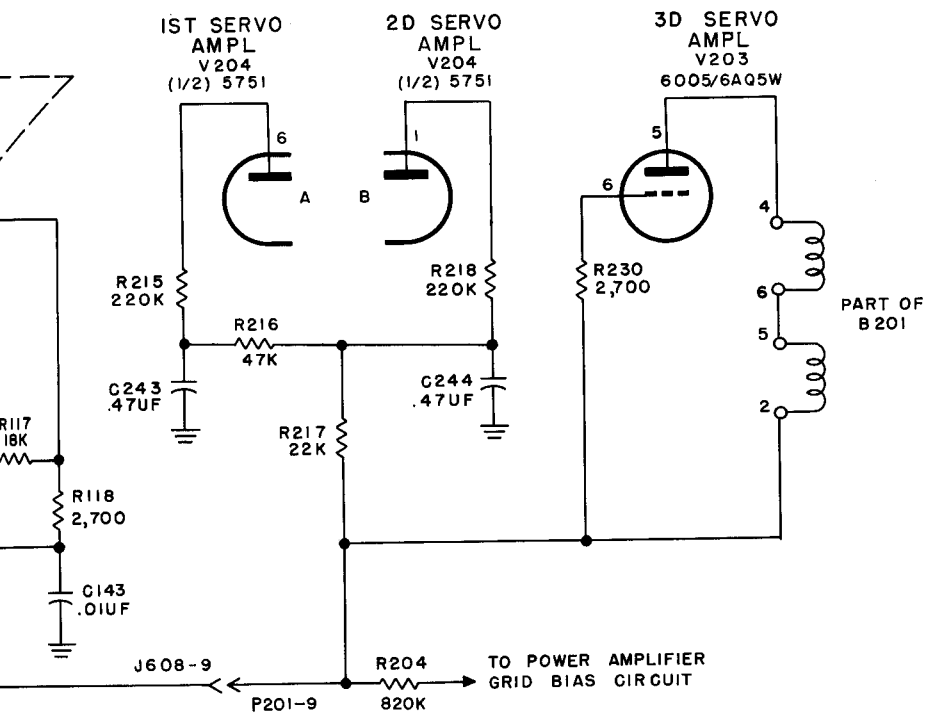


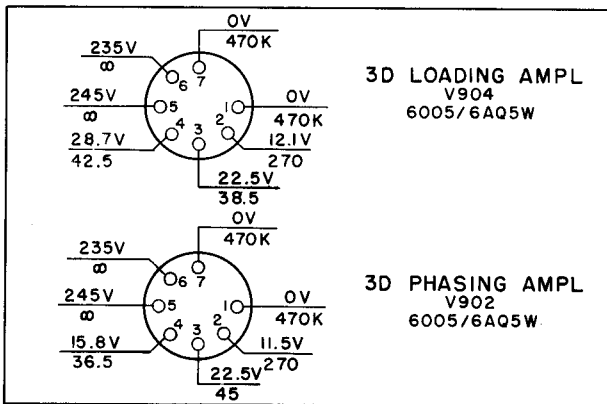
Figure 63. +250-volt distribution, function diagram.



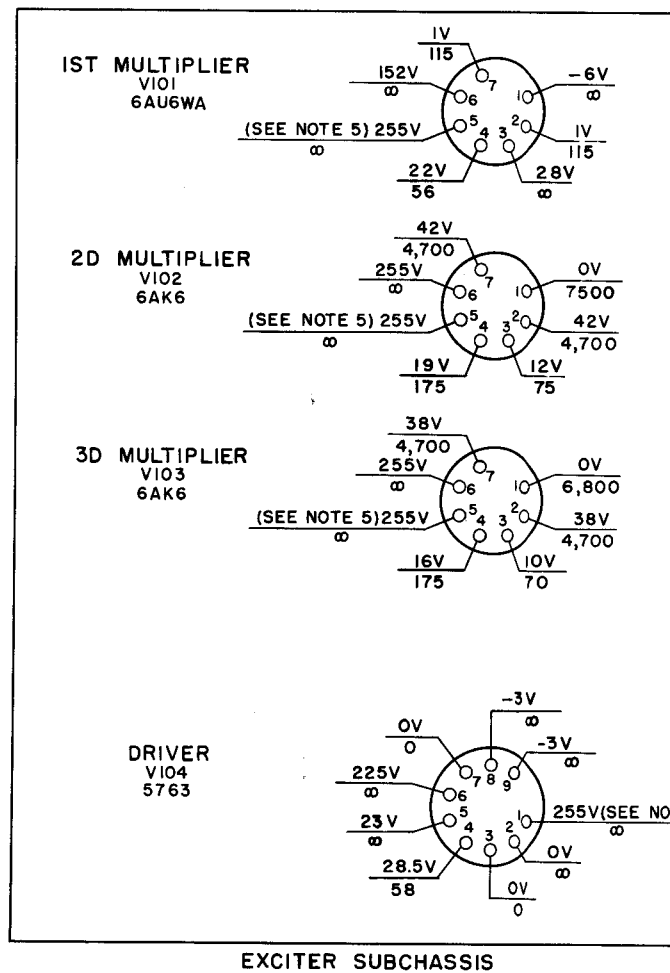
NOTES:

1. UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN UUF.
2. K402 IS ENERGIZED IN
VOICE/FSK OPERATION.

TM 806-59



ANTENNA NETWORK
SERVO AMPLIFIER SUBCHASSIS



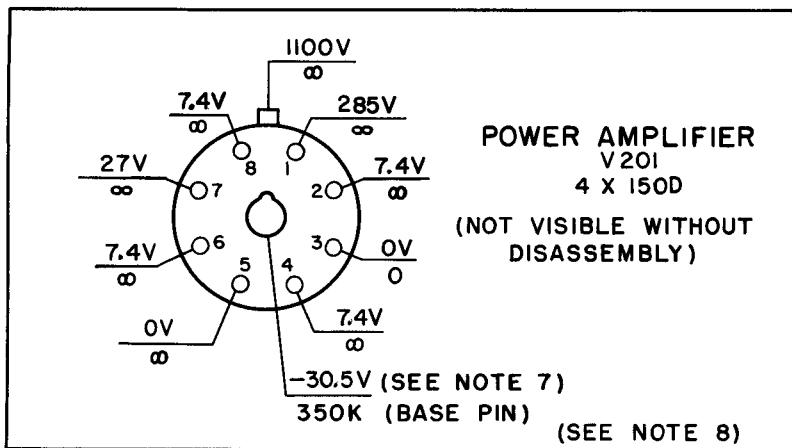
EXCITER SUBCHASSIS

Figure 104. Radio T...

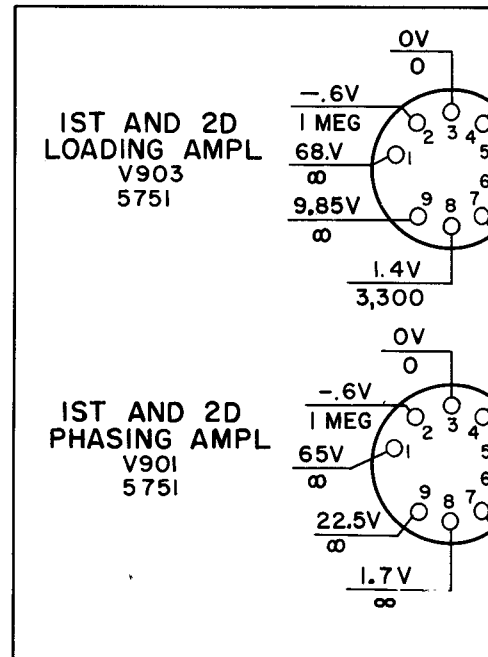
NOTES:

1. UNLESS OTHERWISE SHOWN, RESISTANCES ARE IN OHMS AND ARE MEASURED FROM SOCKET PIN TO GROUND WITH A 20,000-OHMS-PER-VOLT METER AND WITH THE SUBCHASSIS PLUGS DISCONNECTED FROM THE MAIN FRAME.
VOLTAGES ARE DC AND ARE MEASURED FROM SOCKET PIN TO GROUND WITH A VTVM AND WITH SUBCHASSIS CONNECTED TO MAIN FRAME, USING THE REQUIRED BENCH-TEST CABLE.
2. NC INDICATES NO CONNECTION.
3. ∞ INDICATES INFINITY.
4. UNLESS OTHERWISE NOTED, ALL RESISTANCE MEASUREMENTS ARE TAKEN WITH THE SERVICE SELECTOR AT OFF, AND THE BAND SELECTOR AND TUNING CONTROL SET FOR 18.000 MC AS SHOWN ON THE FREQUENCY INDICATOR. ALL VOLTAGE MEASUREMENTS ARE TAKEN AT 18 MC WITH THE CONTROL SET AS FOLLOWS: DIAL DIM AT FULL, TEST KEY AT ON, LINE LEVEL AT -34, RELAY-NORMAL-DUPLEX AT NORMAL, AND SERVICE SELECTOR AT CW.
5. THIS MEASUREMENT TAKEN WITH TEST KEY AT OFF.
6. ALL TUBES IN EACH SUBCHASSIS REMOVED.

POWER
AMPLIFIER
SUBCHASSIS

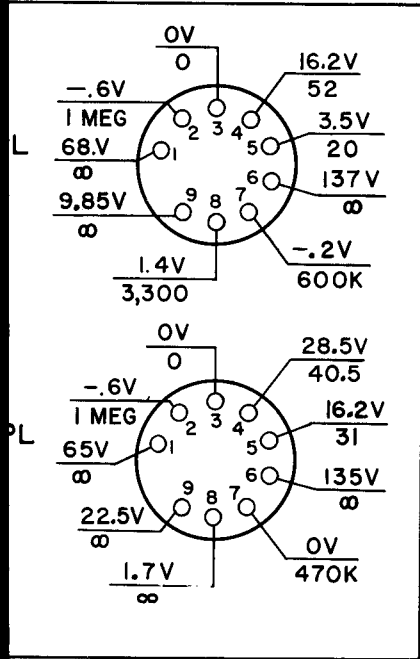


ANTENNA-NETWORK SE
AMPLIFIER SUBCHASSIS

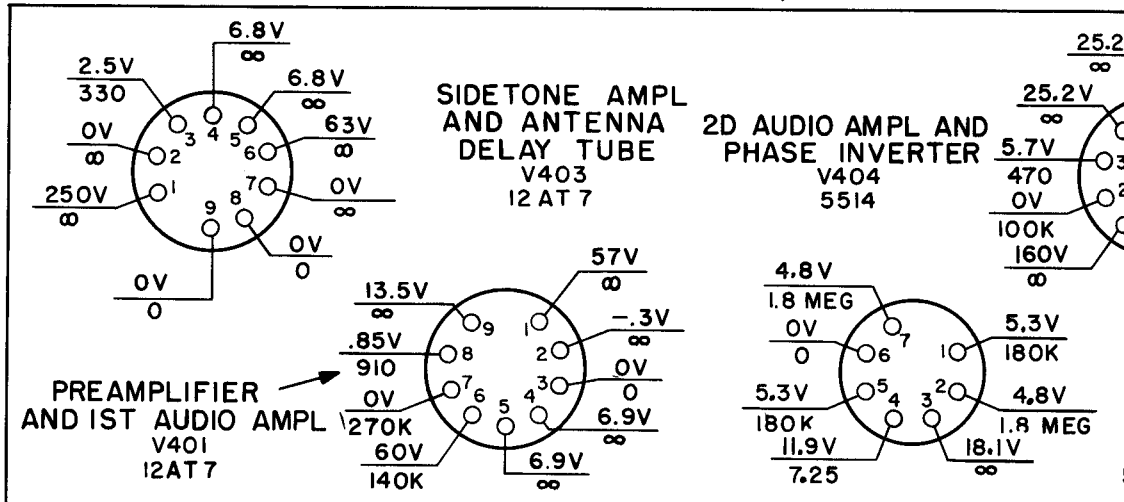


REAR

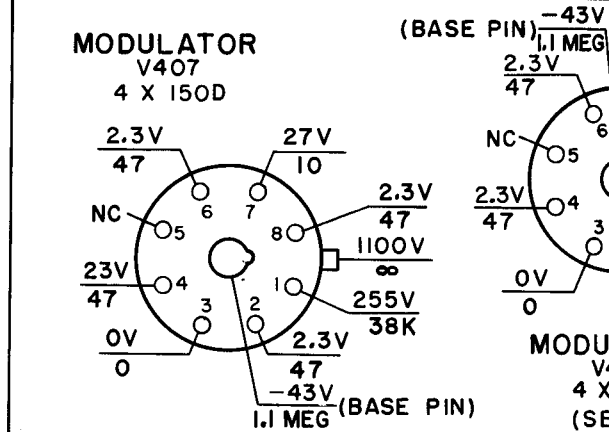
A-NETWORK SERVO
FIER SUBCHASSIS



MODULATOR SUBCHASSIS
(SEE NOTE 6)



MODULATOR



FRONT

Figure 105. Radio Transmitter T-195/GRC-19, bottom deck, tube voltage and resistance diagram.

MODULATOR SUBCHASSIS
(SEE NOTE 6)

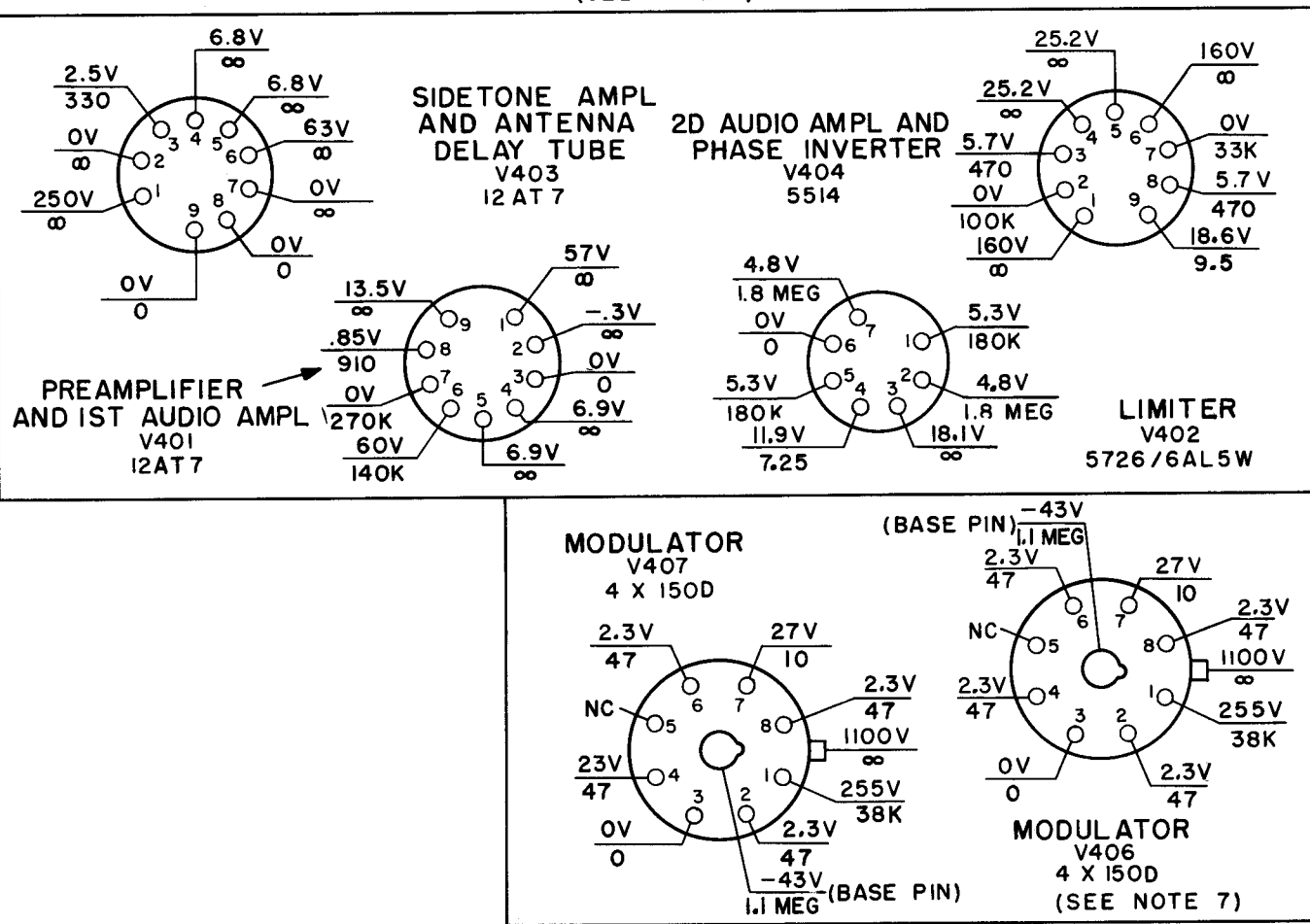


Figure 105. Radio Transmitter T-195/GRC-19, bottom deck, tube voltage and resistance diagram.

NOTES:

1. UNLESS OTHERWISE SHOWN, RESISTANCES ARE IN OHMS AND ARE MEASURED FROM SOCKET PIN TO GROUND WITH A 20,000-OHMS-PER-VOLT METER, AND WITH THE SUBCHASSIS PLUGS DISCONNECTED FROM THE MAIN FRAME. VOLTAGES ARE DC AND ARE MEASURED FROM SOCKET PIN TO GROUND WITH A VTVM AND WITH THE SUBCHASSIS CONNECTED TO MAIN FRAME, USING THE REQUIRED BENCH-TEST CABLE.
2. NC INDICATES NO CONNECTION.
3. ∞ INDICATES INFINITY.
4. UNLESS OTHERWISE NOTED, ALL RESISTANCE MEASUREMENTS ARE TAKEN WITH THE **SERVICE SELECTOR** AT **OFF**, AND THE **BAND SELECTOR** AND **TUNING CONTROL** SET FOR 18.000 MC AS SHOWN ON THE FREQUENCY INDICATOR. ALL VOLTAGE MEASUREMENTS ARE TAKEN AT 18 MC WITH THE CONTROLS SET AS FOLLOWS: **DIAL DIM** AT **FULL**, **TEST KEY** AT **ON**, **LINE LEVEL** AT **-34**, **RELAY-NORMAL-DUPLEX** AT **NORMAL**, AND **SERVICE SELECTOR** AT **CW**.
5. THIS MEASUREMENT TAKEN WITH **TEST KEY** AT **OFF**.
6. VOLTAGE MEASUREMENT FOR THE MODULATOR SUBCHASSIS ARE MADE WITH **SERVICE SELECTOR** AT **VOICE** AND NO MODULATION INPUT TO THE TRANSMITTER.
7. THE MEASUREMENTS FOR THE PLATES OF V406 AND V407 ARE TAKEN AT TERMINALS 2 AND 1 RESPECTIVELY OF T402.
8. MEASUREMENTS FOR SOCKET PINS 2,5,7 AND BASE PIN OF V201 ARE TAKEN AT TERMINALS E205, E207, E206, AND E208 RESPECTIVELY LOCATED ON SHIELD NEAR SOCKET XV201.
9. ALL TUBES IN EACH SUBCHASSIS REMOVED.

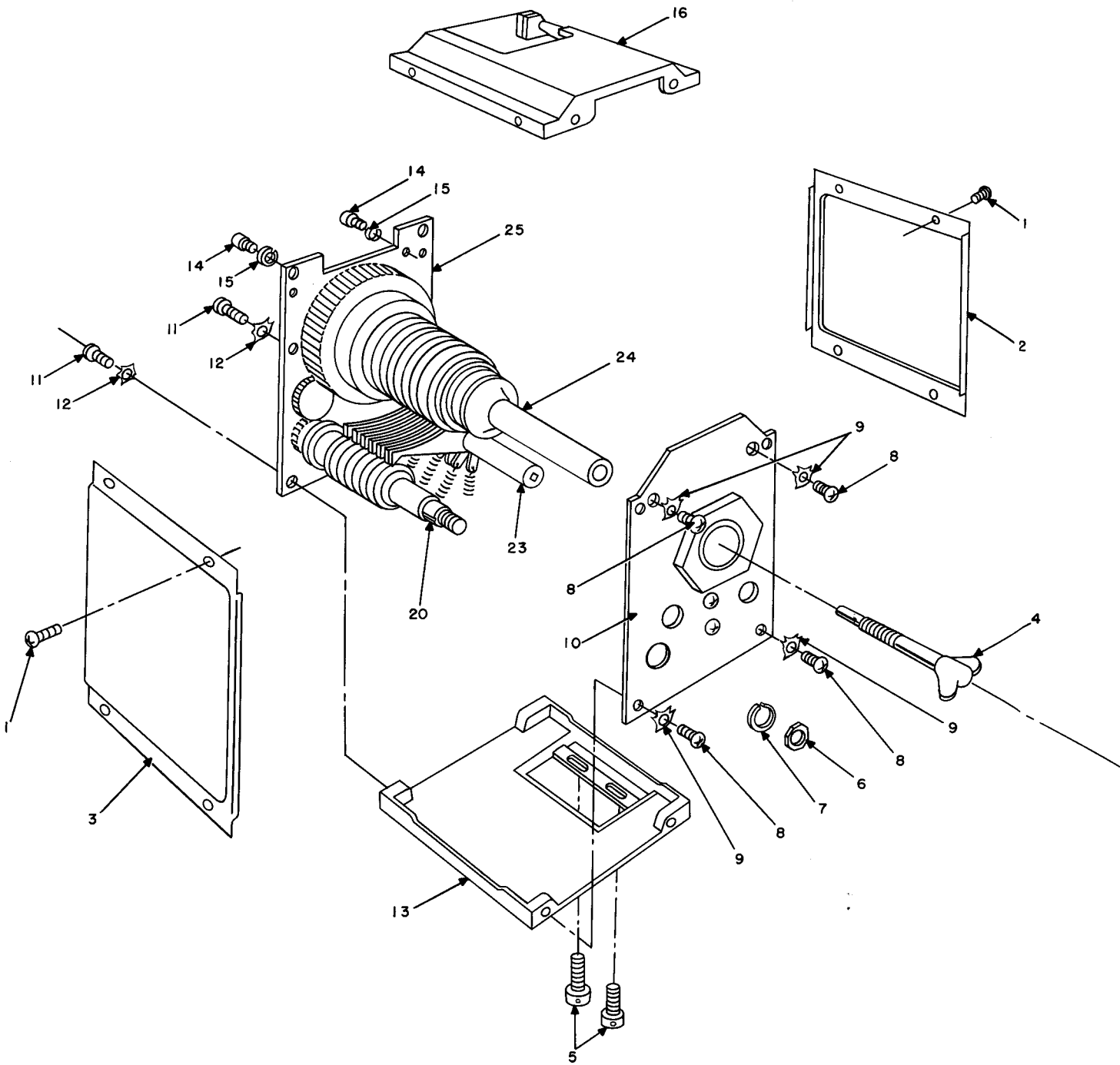
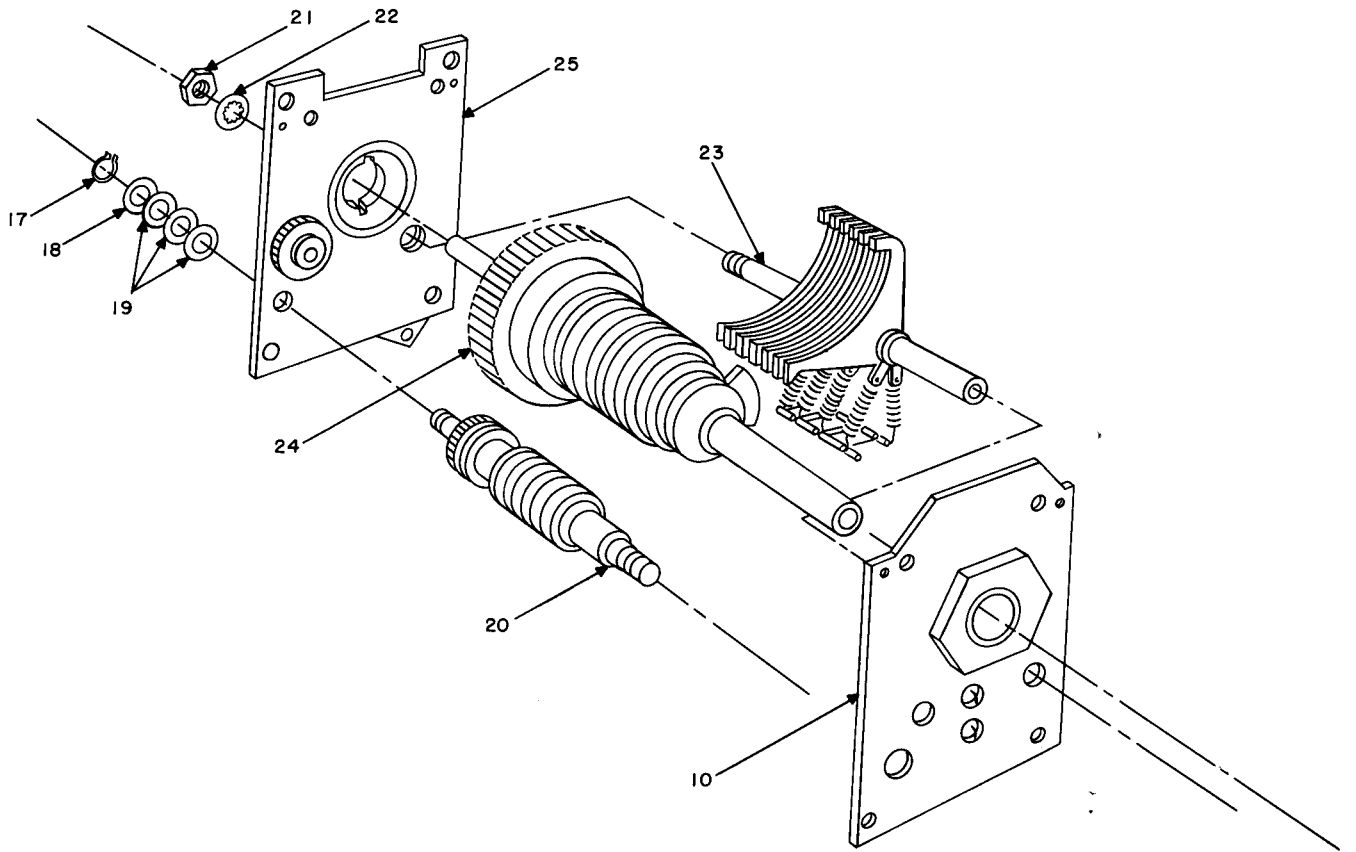


Figure 113. Disassembly of Au



Assembly of Autotune singleturn head

TM 806-107

390412 O - 56 (In pocket) No. 15

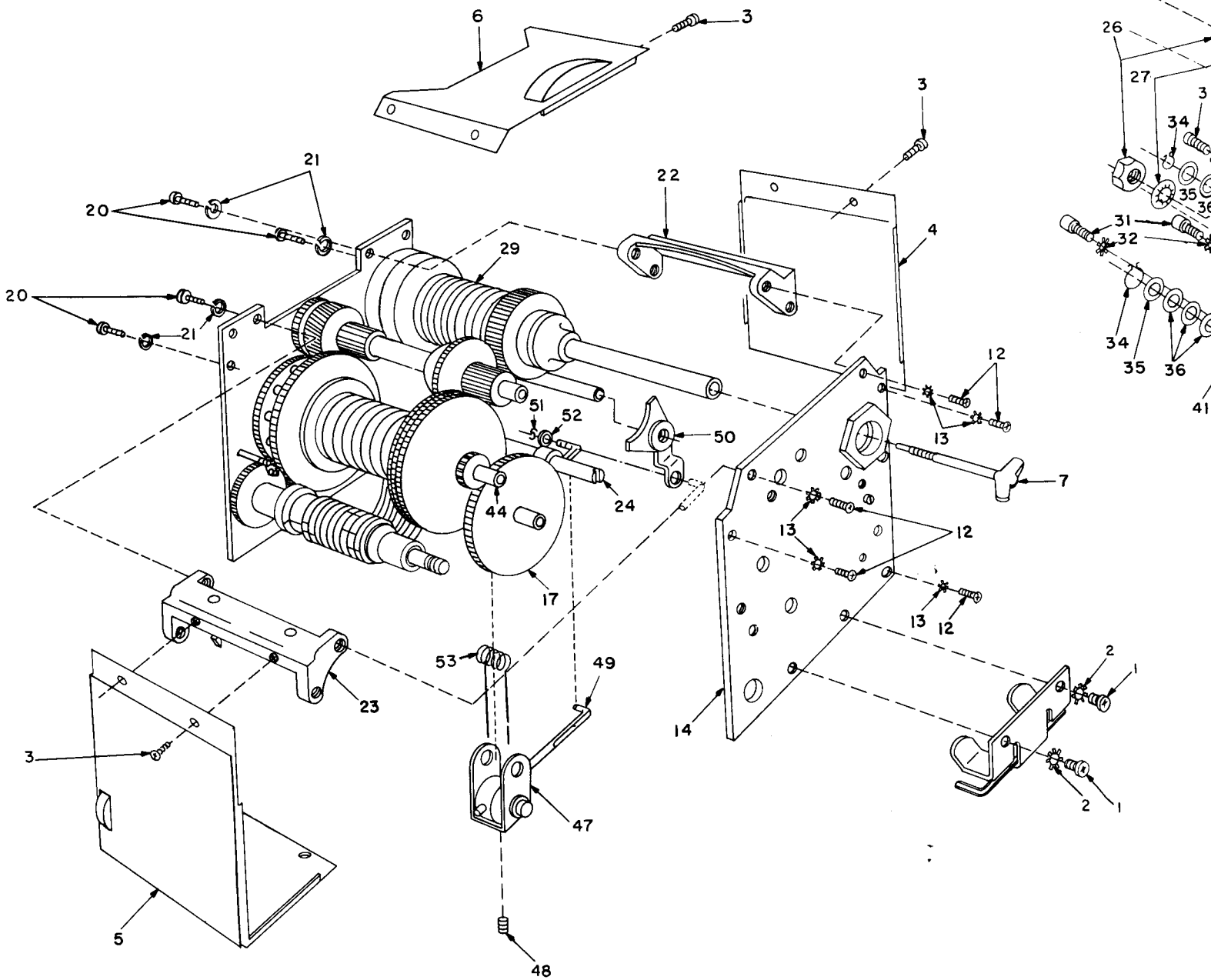
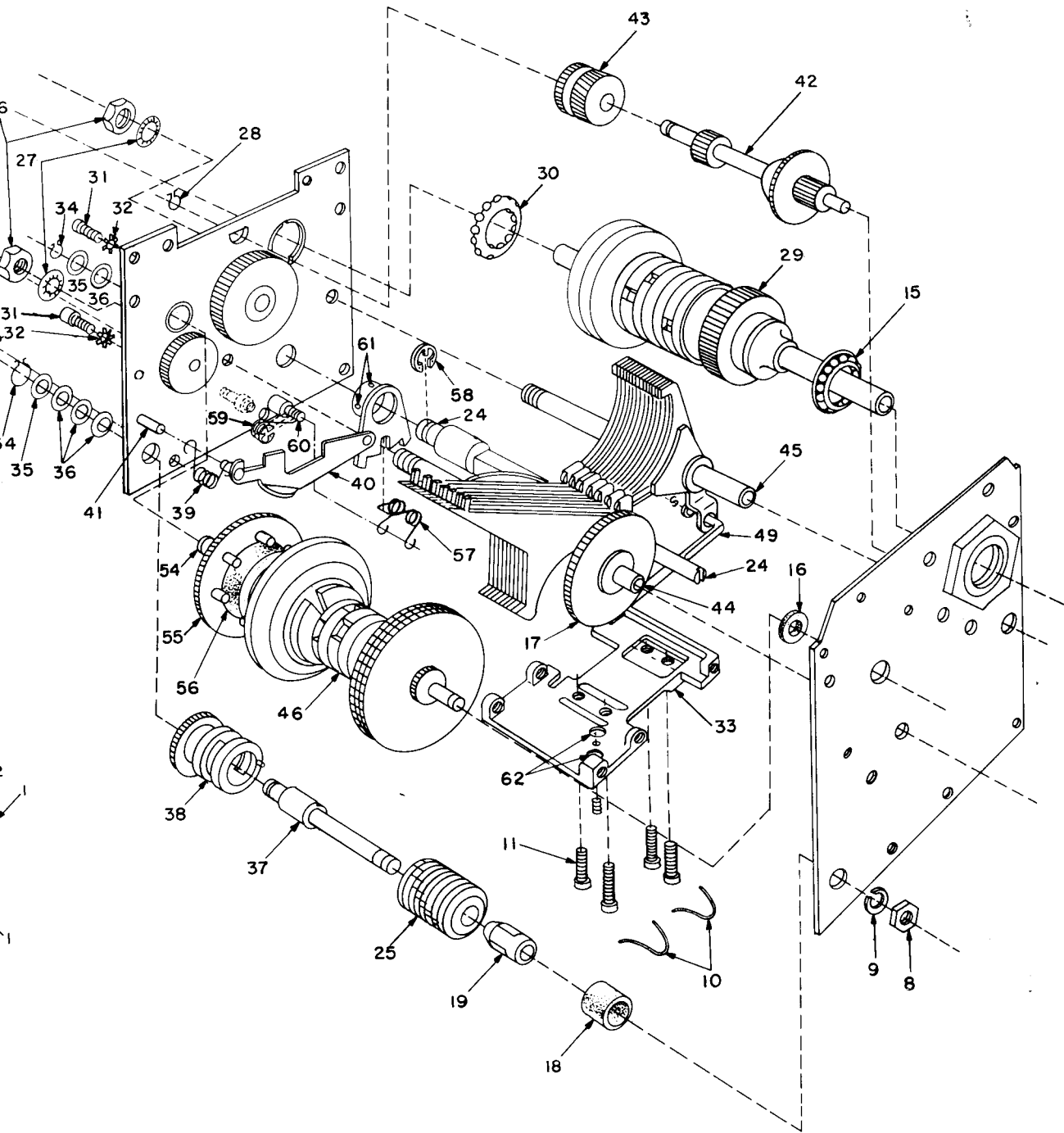


Figure 114. Disassembly of Autotune multi-tuner.



Autotune multiturn head.

TM 806-105

390412 O - 56 (In pocket) No. 16

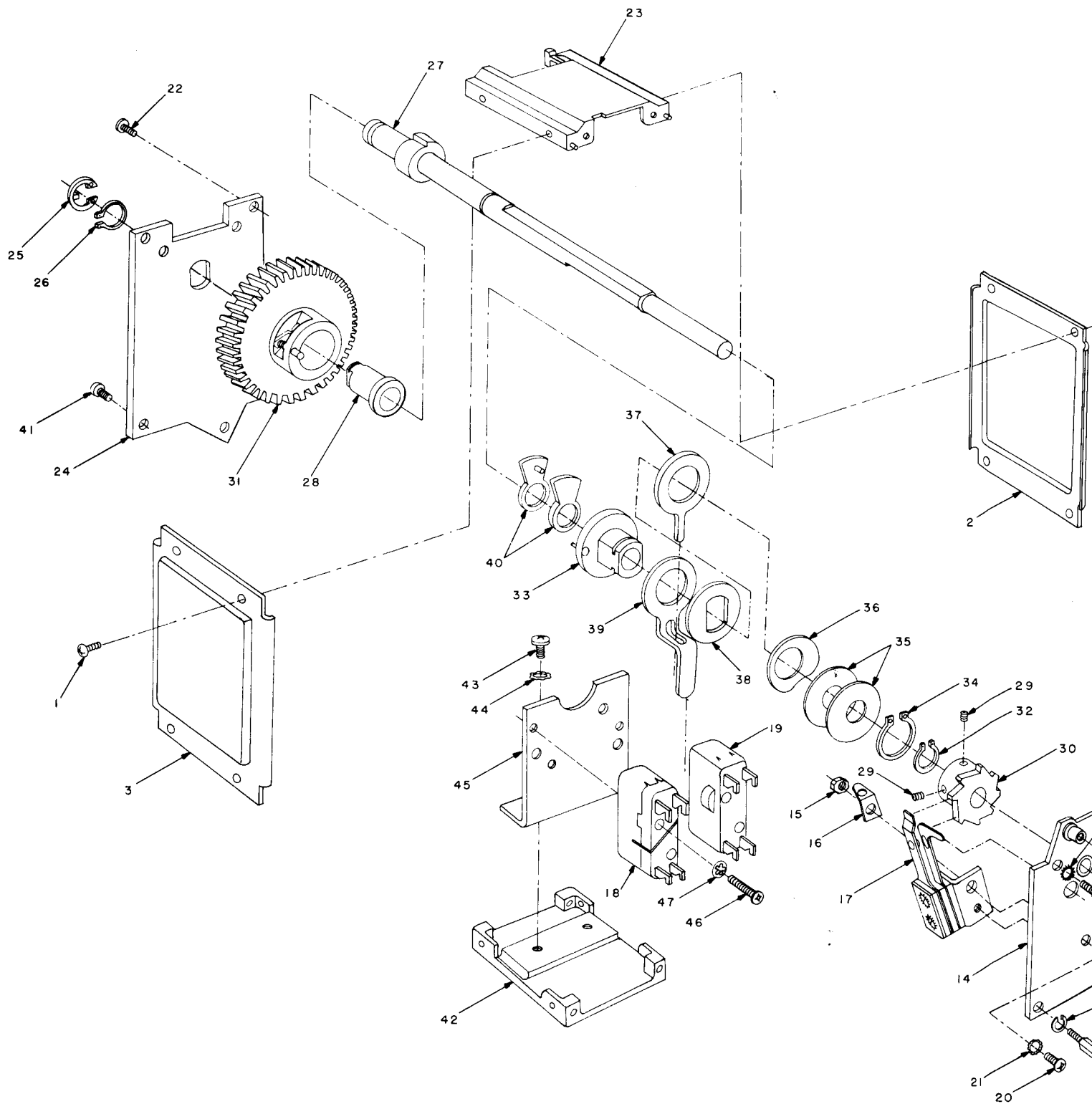
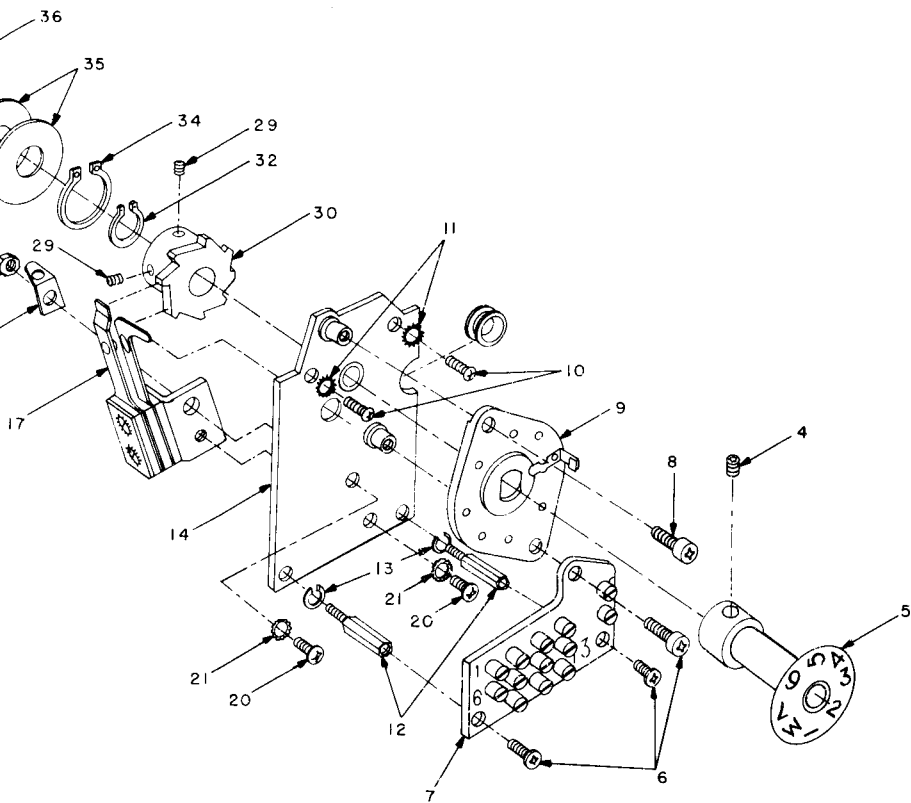
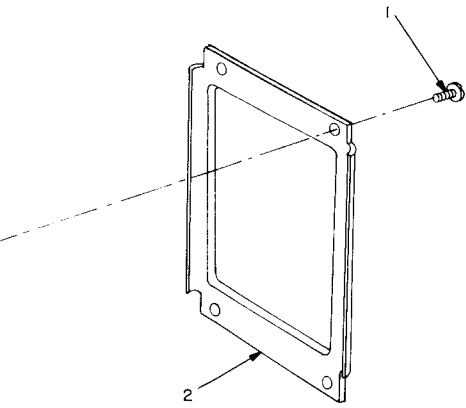


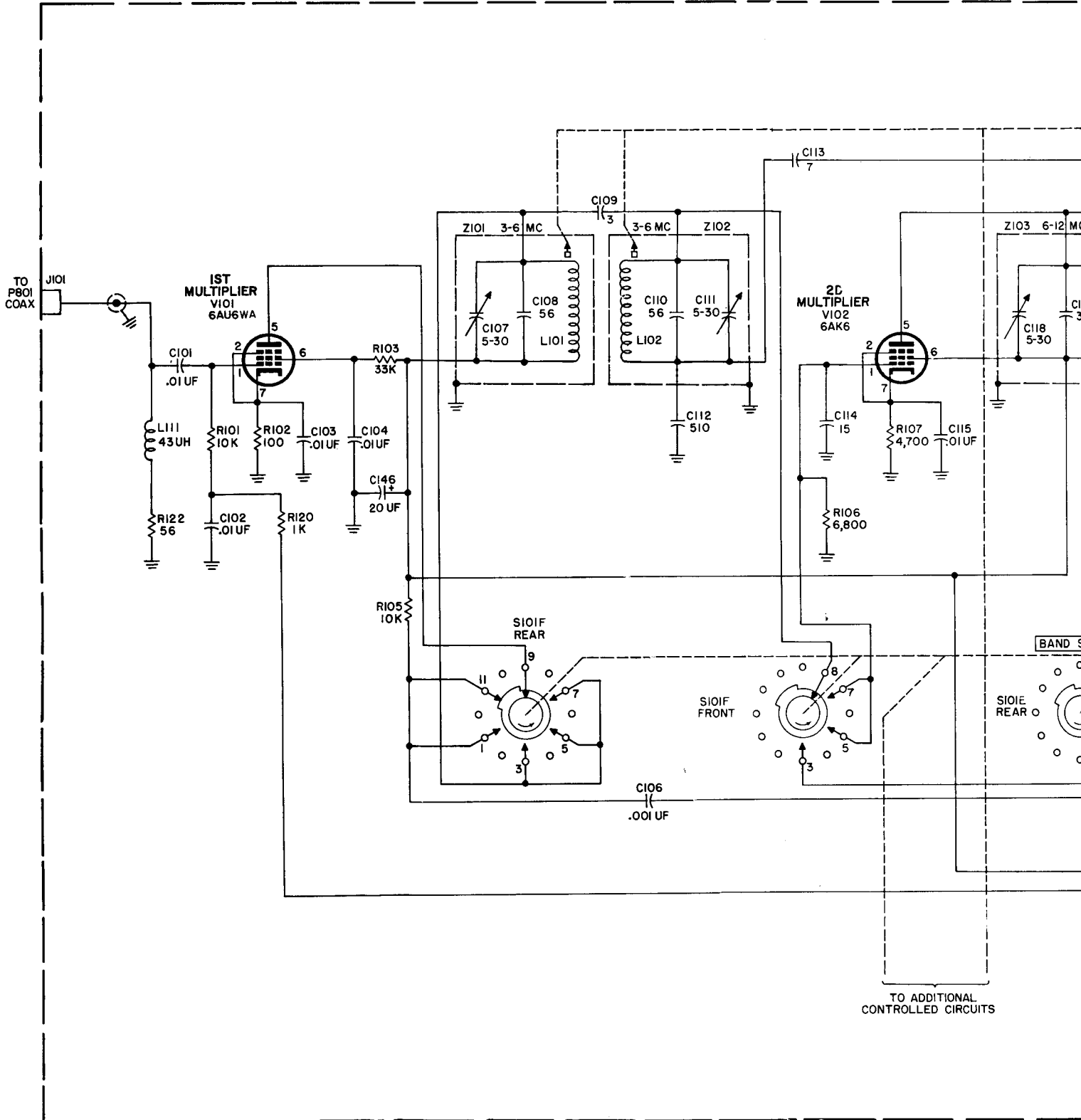
Figure 115. Disassembly of Autotune control head.



TM 806-106

390412 O - 56 (in pocket) No. 17

the control head.



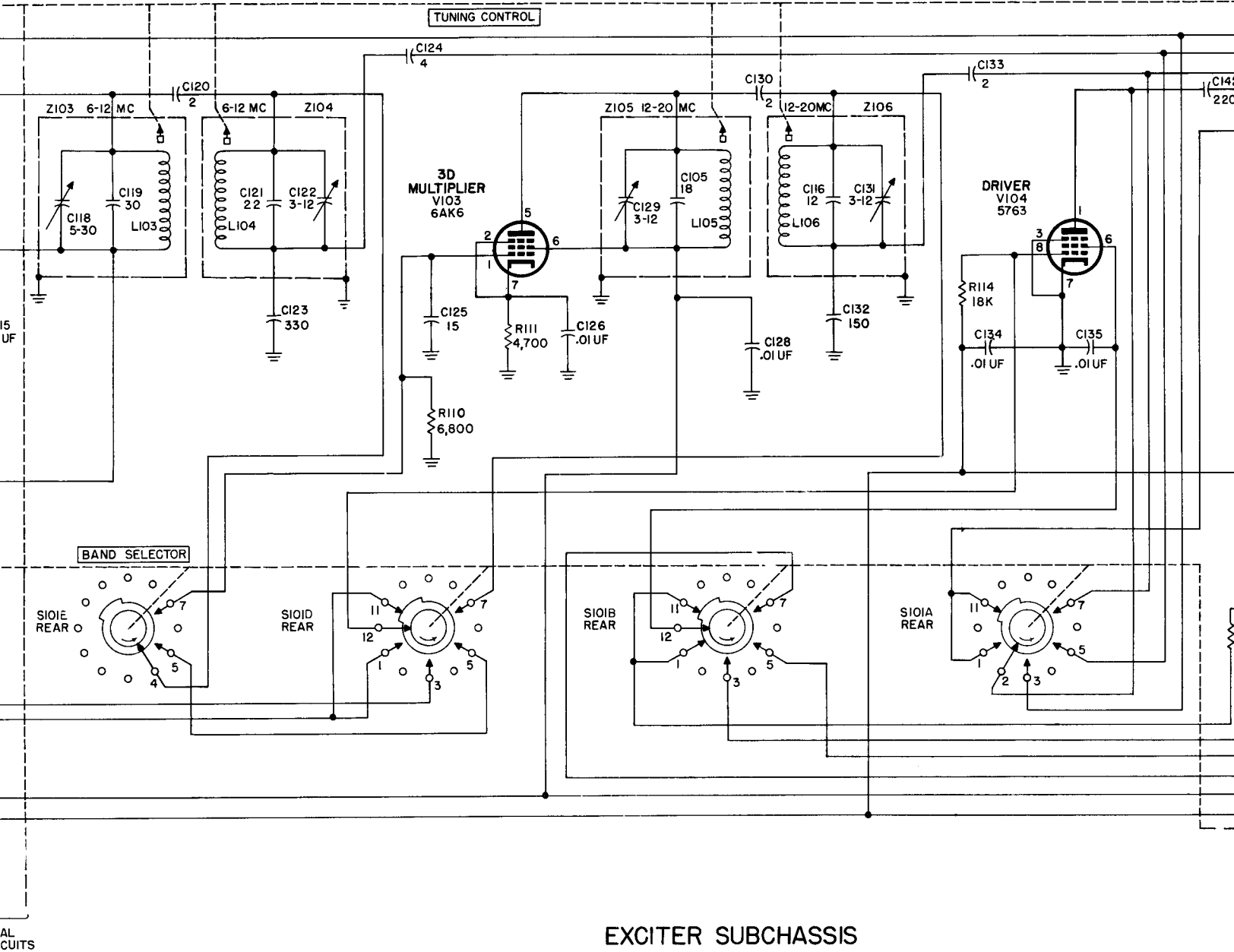
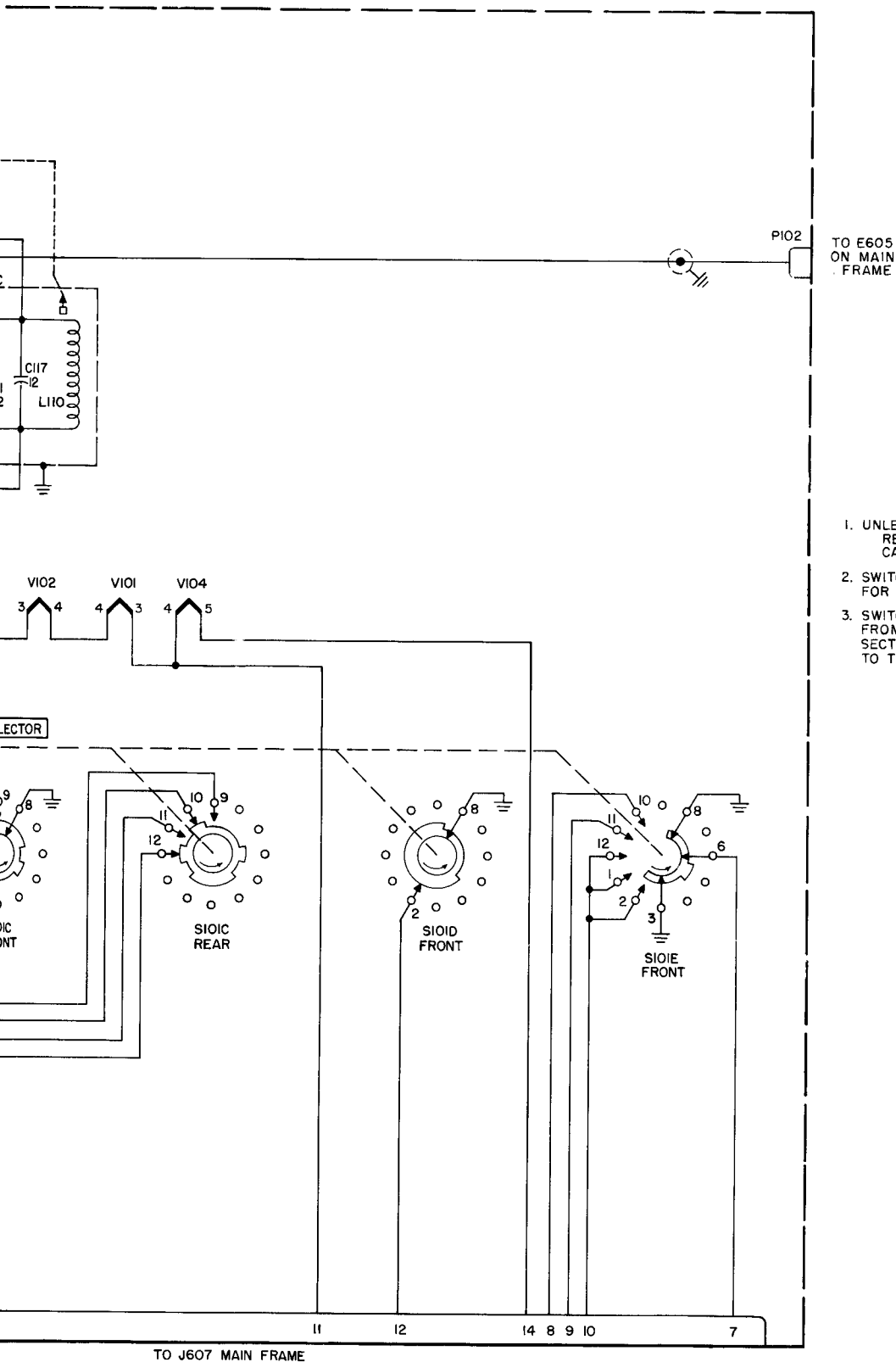


Figure 130. Exciter subchassis, schematic diagram.



NOTES:

1. UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS
CAPACITORS ARE IN UJF
2. SWITCHES ARE SHOWN POSITIONED
FOR THE 1.5 TO 1.7 MC RANGE
3. SWITCHES ARE SHOWN AS VIEWED
FROM THE REAR OF THE EQUIPMENT
SECTIONS DESIGNATED A ARE CLOSED
TO THE FRONT PANEL

POWER AMPLIFIER SUBCHASSIS

TO E605 ON MAIN FRAME

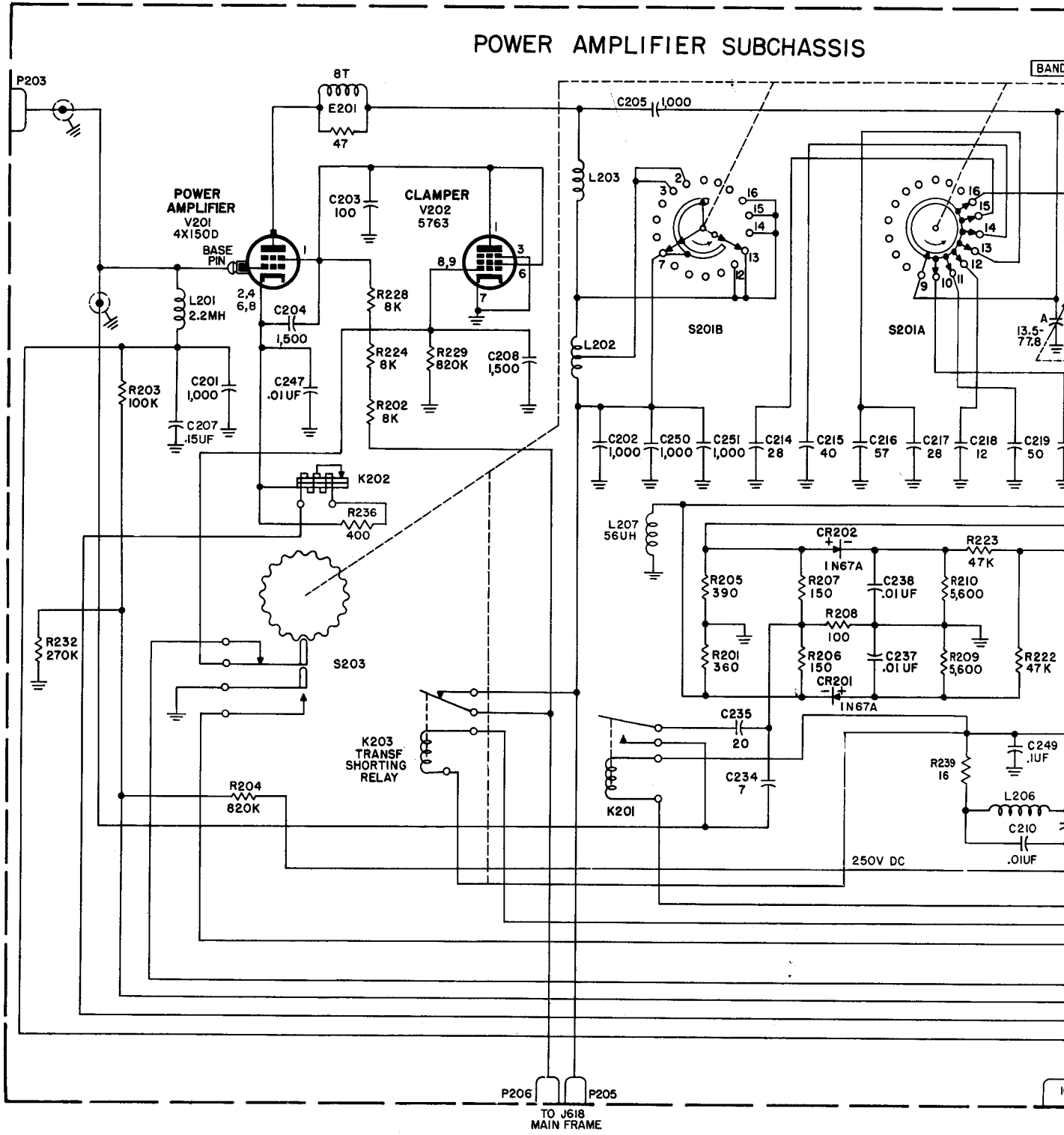
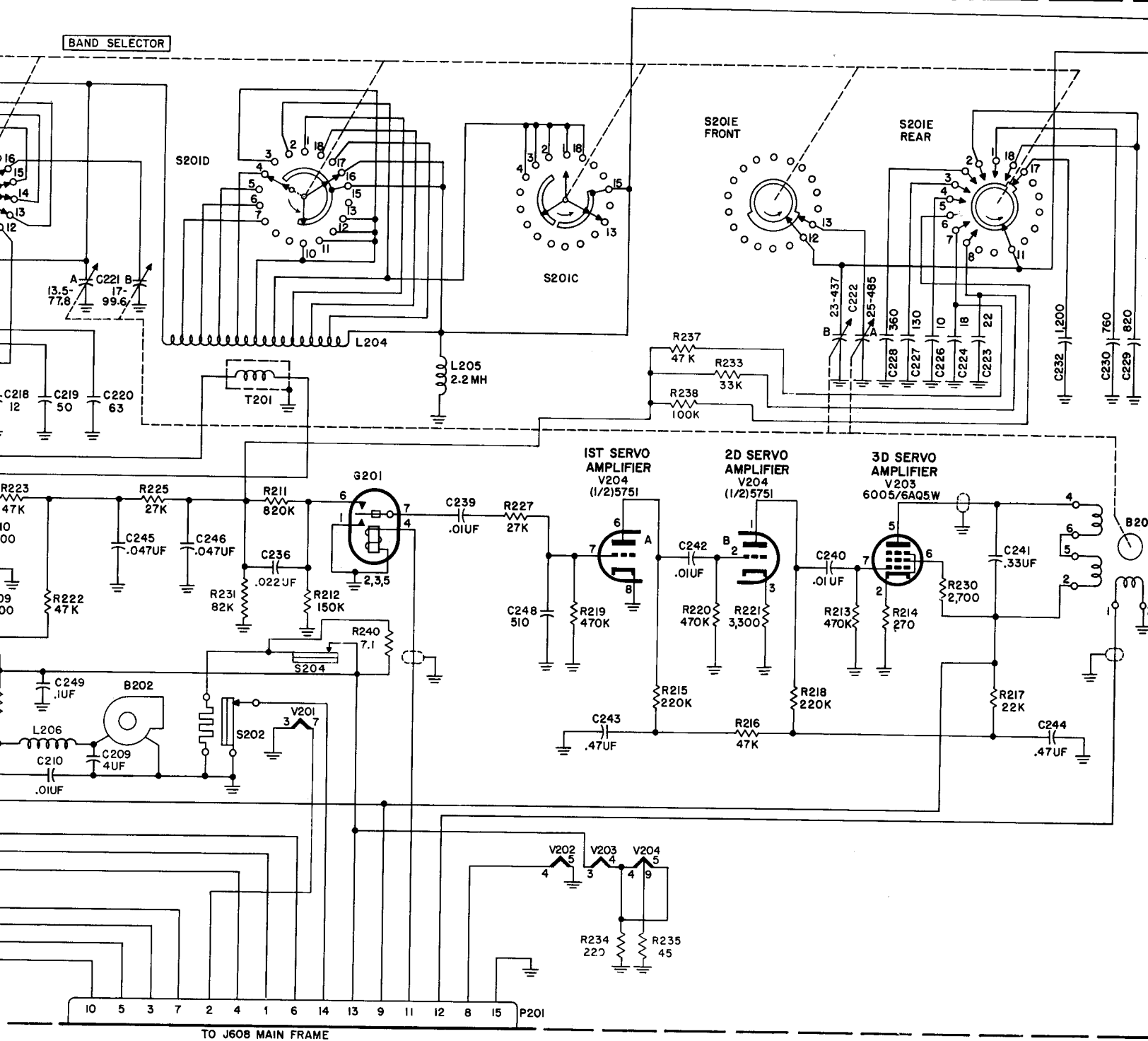
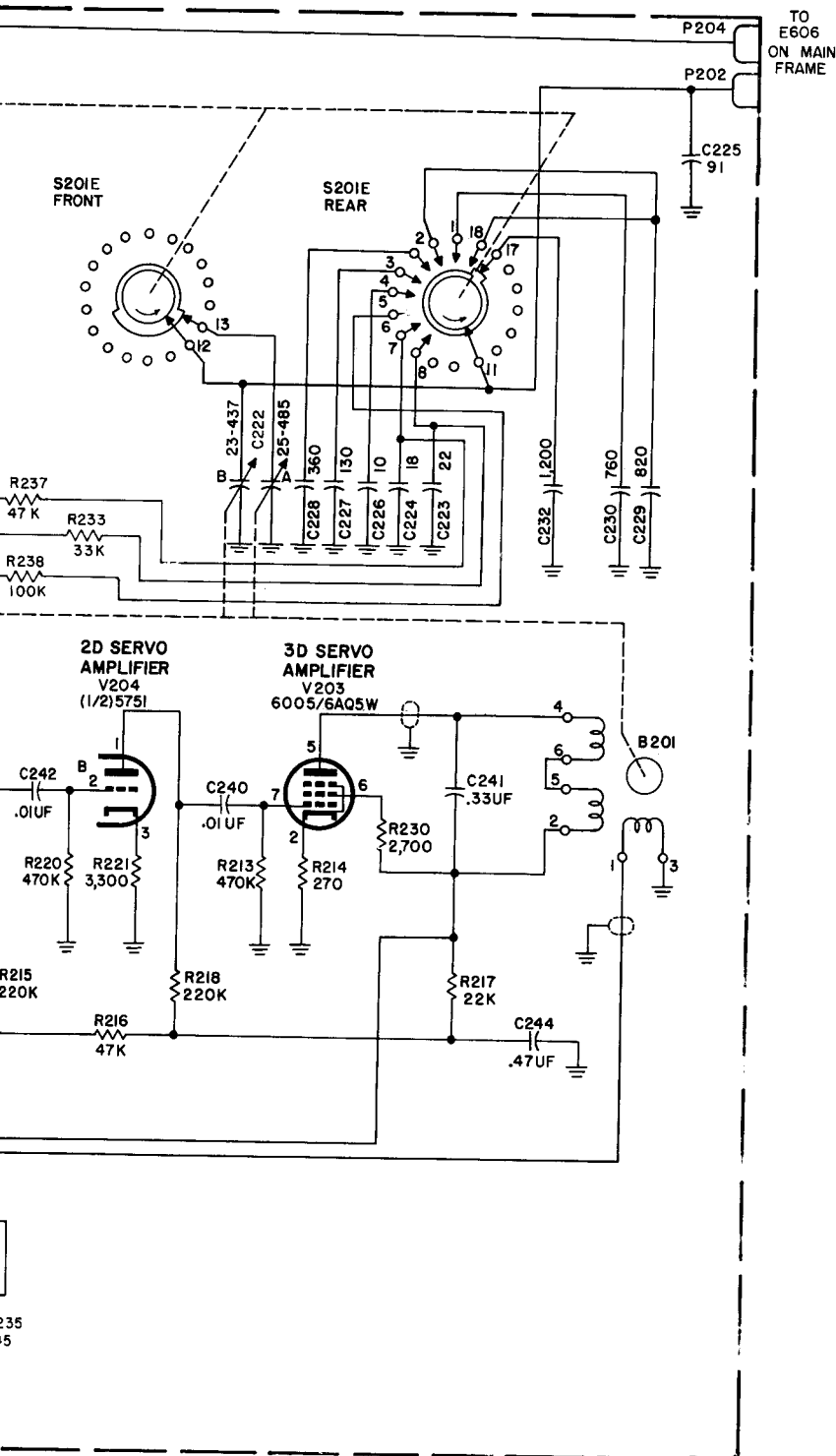


Figure 131. Power amp



- NOTES:
1. UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN UUF.
 2. S201 IS SHOWN AS VIEWED FROM
REAR OF EQUIPMENT AND POSITIONED
FOR THE 1.5 TO 1.7 MC RANGE

Power amplifier subchassis, schematic diagram.



NOTES:

1. UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN UUF.
2. S201 IS SHOWN AS VIEWED FROM
REAR OF EQUIPMENT AND POSITIONED
FOR THE 1.5 TO 1.7 MC RANGE

TM806-128

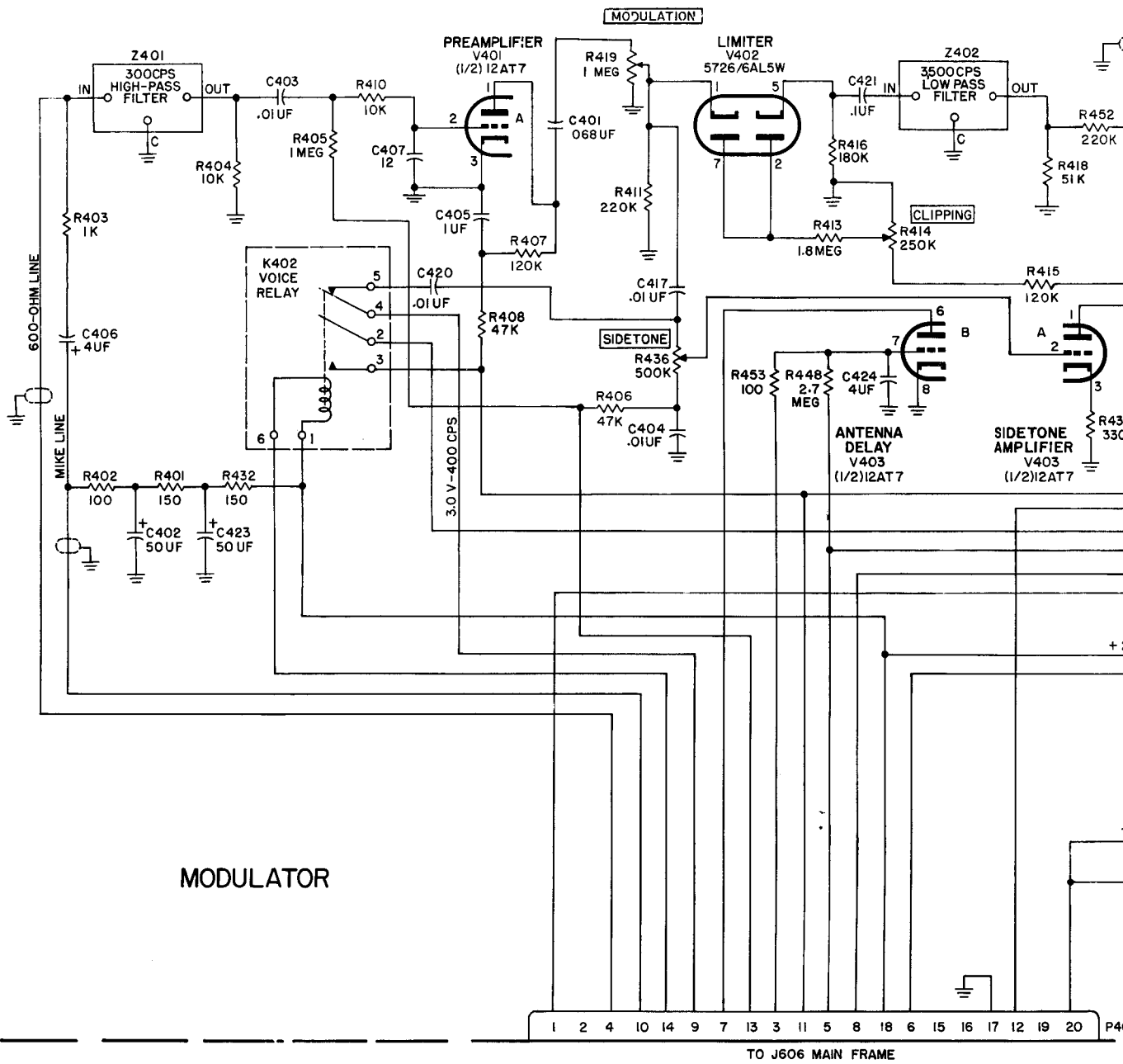
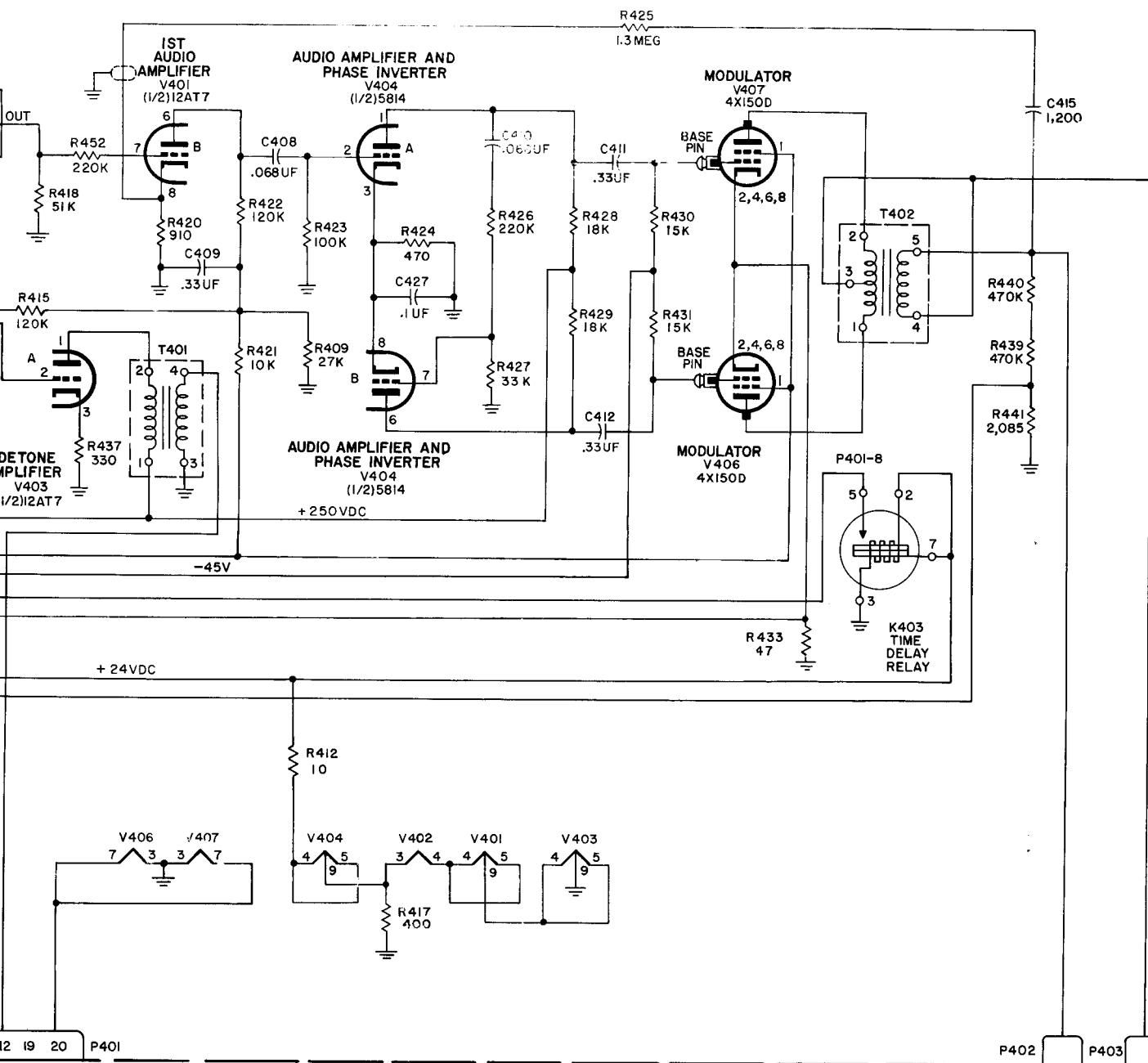


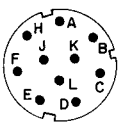
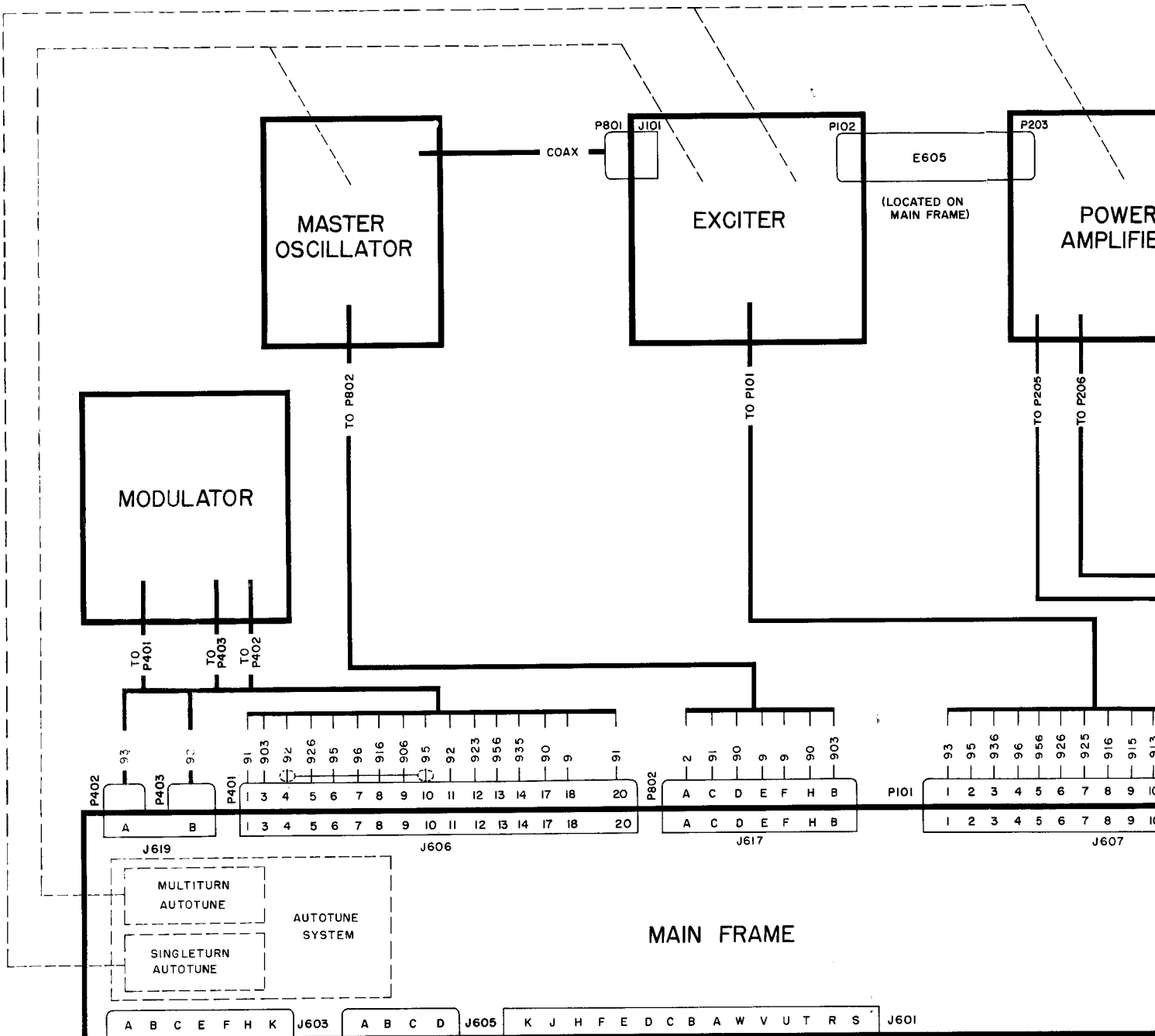
Figure 132. Modulator subchassis



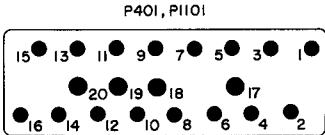
NOTE:
UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN U.F.

TO J619
MAIN FRAME

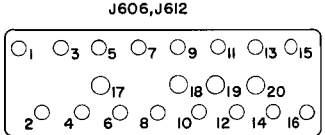
TM806-130



AUDIO
J603



P401, P101



J606, J612

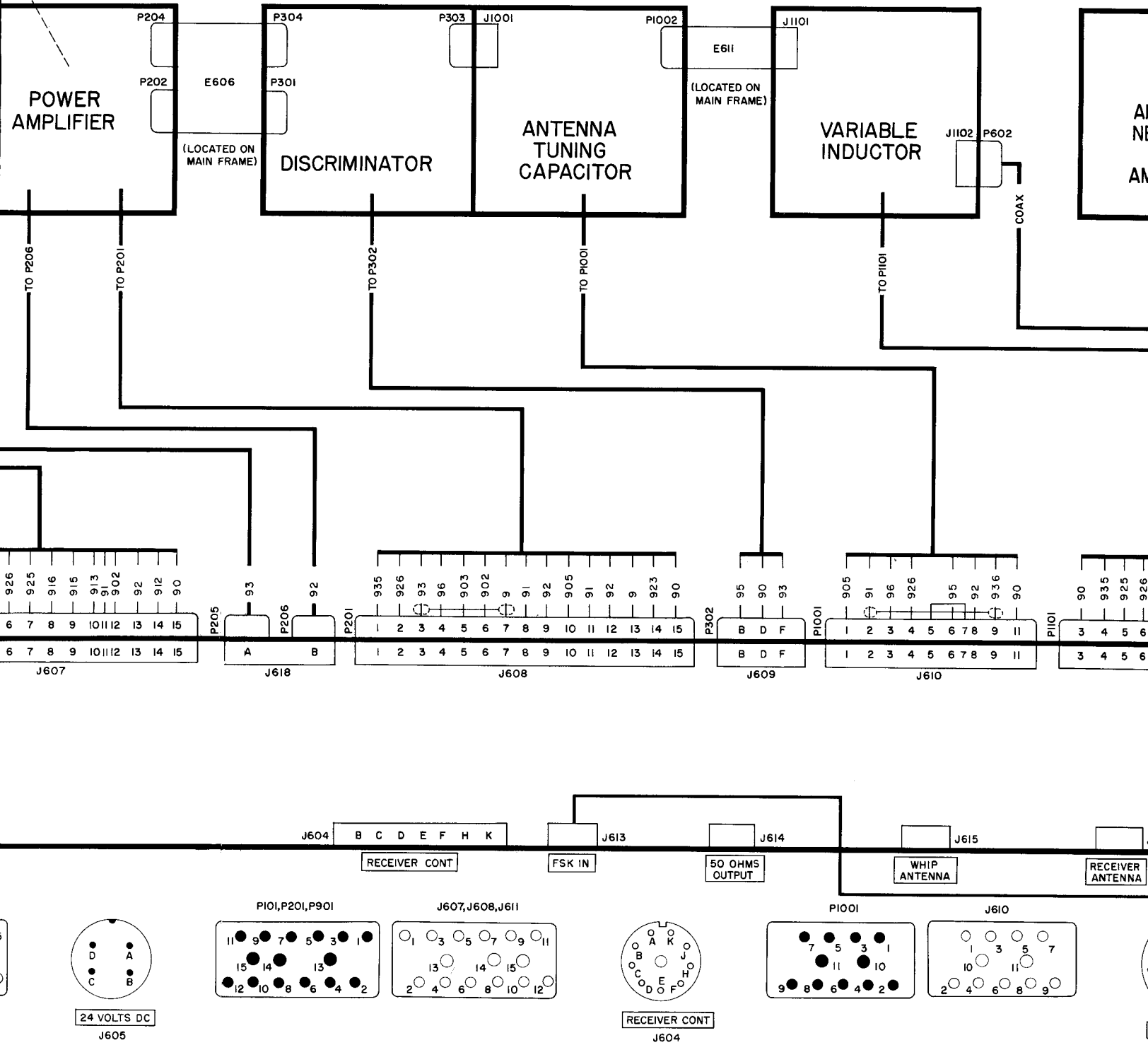
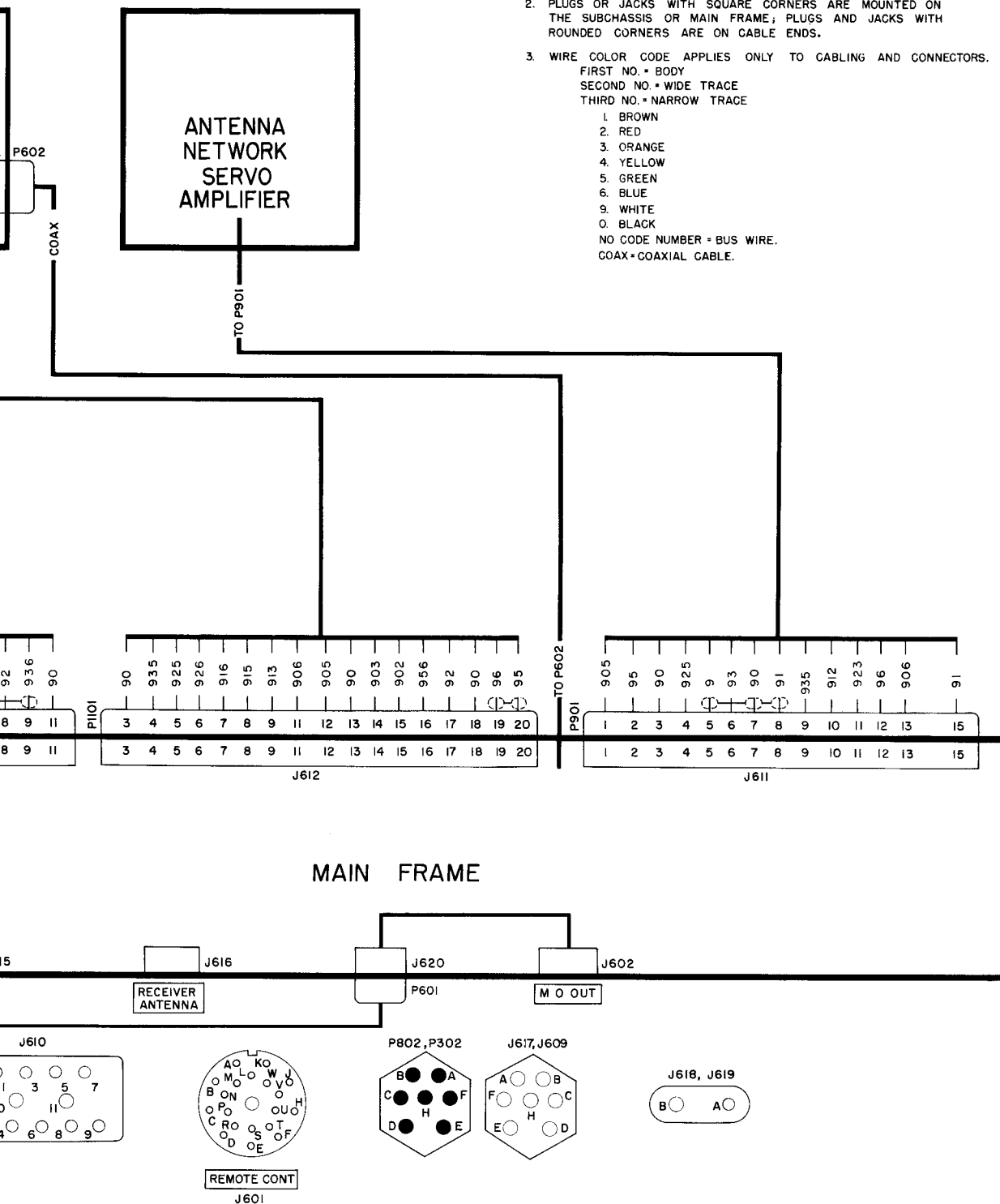


Figure 138. Subchassis interconnection cabling diagram.

NOTES:

1. FOR FSK OPERATION P601 CONNECTS TO J101; P801 TO J620.
2. PLUGS OR JACKS WITH SQUARE CORNERS ARE MOUNTED ON THE SUBCHASSIS OR MAIN FRAME; PLUGS AND JACKS WITH ROUNDED CORNERS ARE ON CABLE ENDS.
3. WIRE COLOR CODE APPLIES ONLY TO CABLING AND CONNECTORS.
 FIRST NO. = BODY
 SECOND NO. = WIDE TRACE
 THIRD NO. = NARROW TRACE
 1. BROWN
 2. RED
 3. ORANGE
 4. YELLOW
 5. GREEN
 6. BLUE
 9. WHITE
 0. BLACK
 NO CODE NUMBER = BUS WIRE.
 COAX = COAXIAL CABLE.

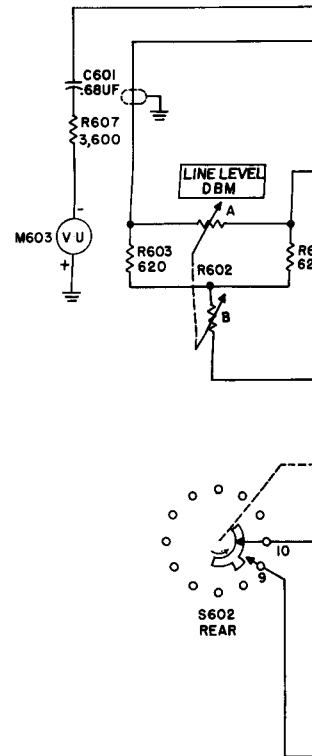
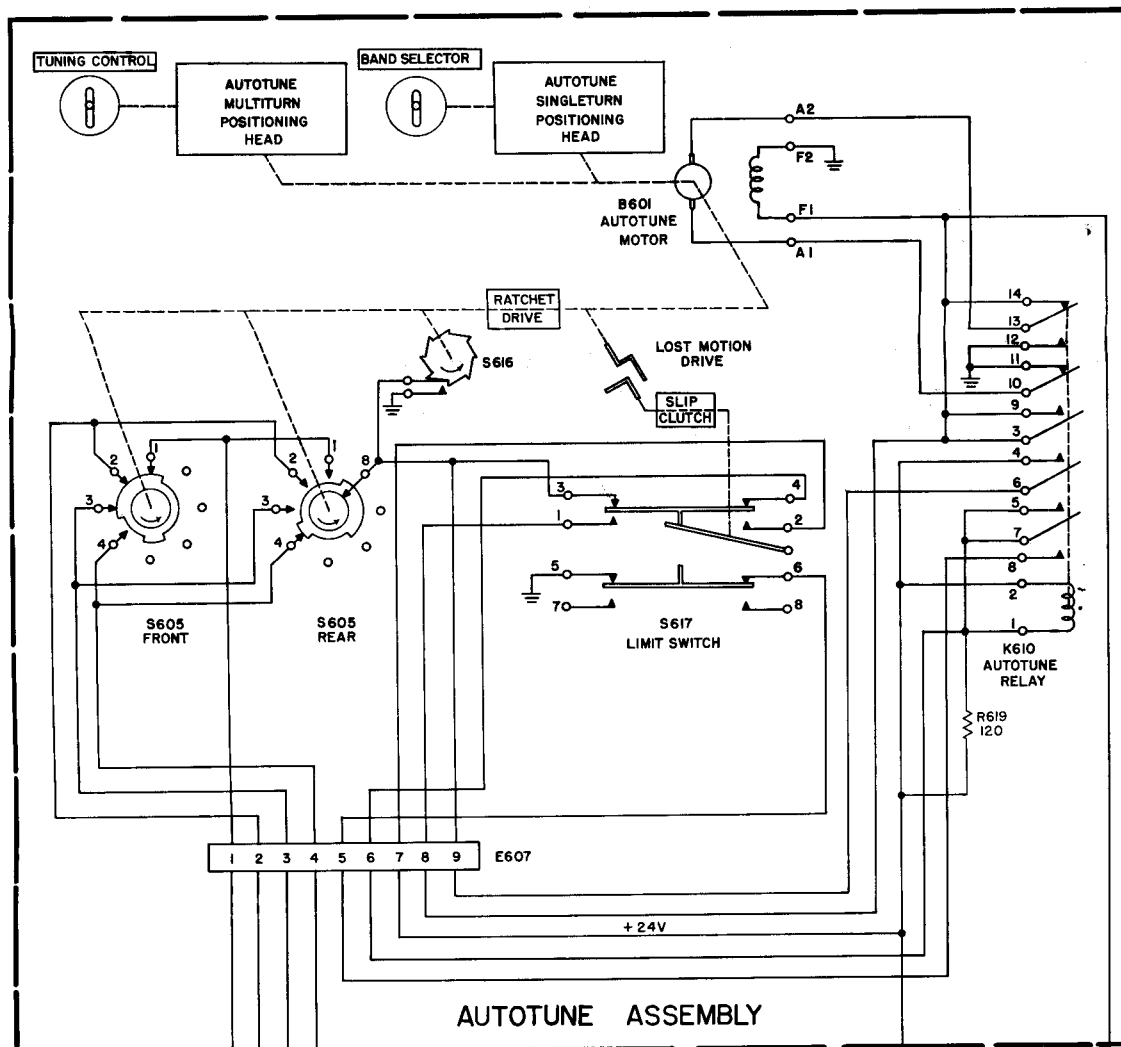


TO P402 AND P403
ON MODULATOR

J619

A B

MAIN FRAME

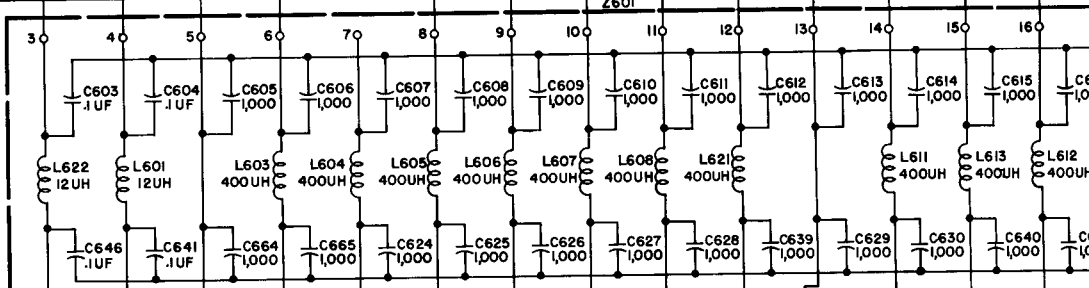
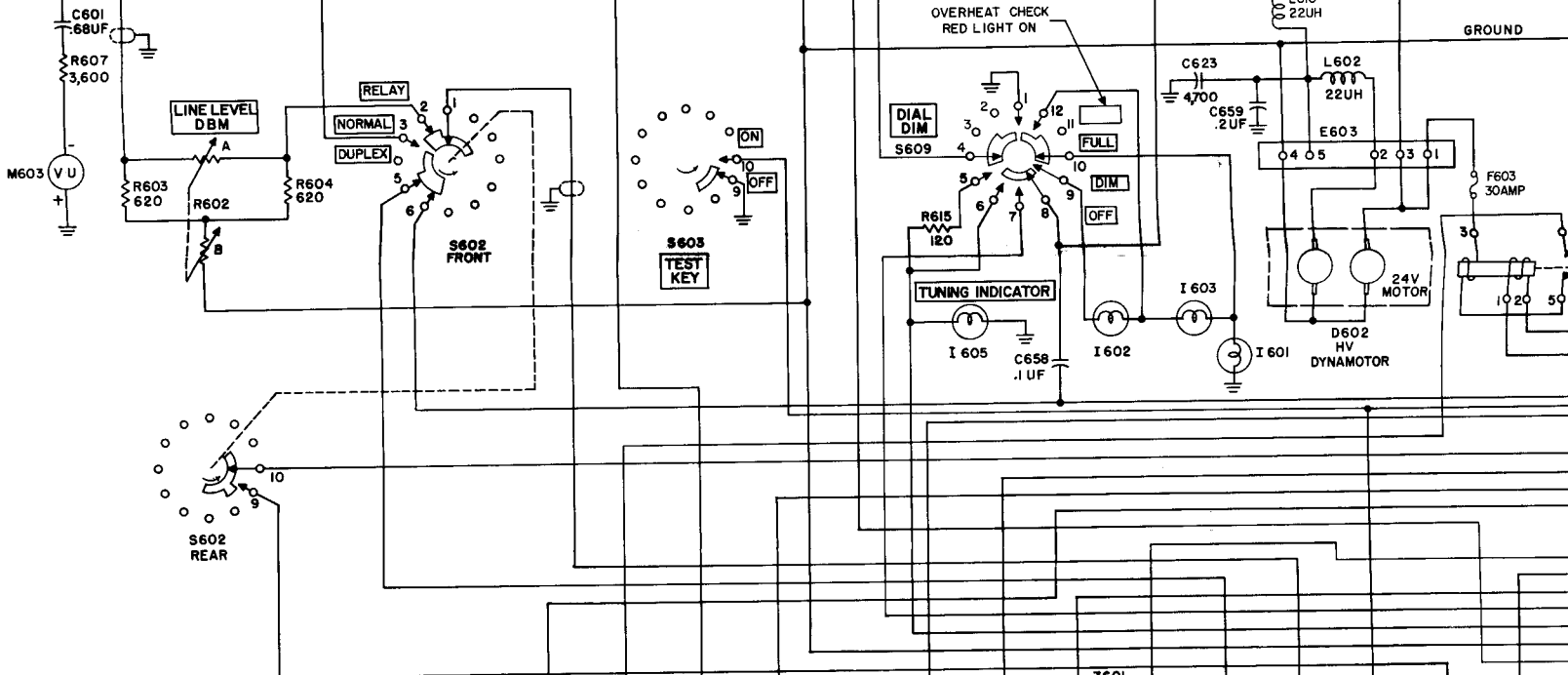
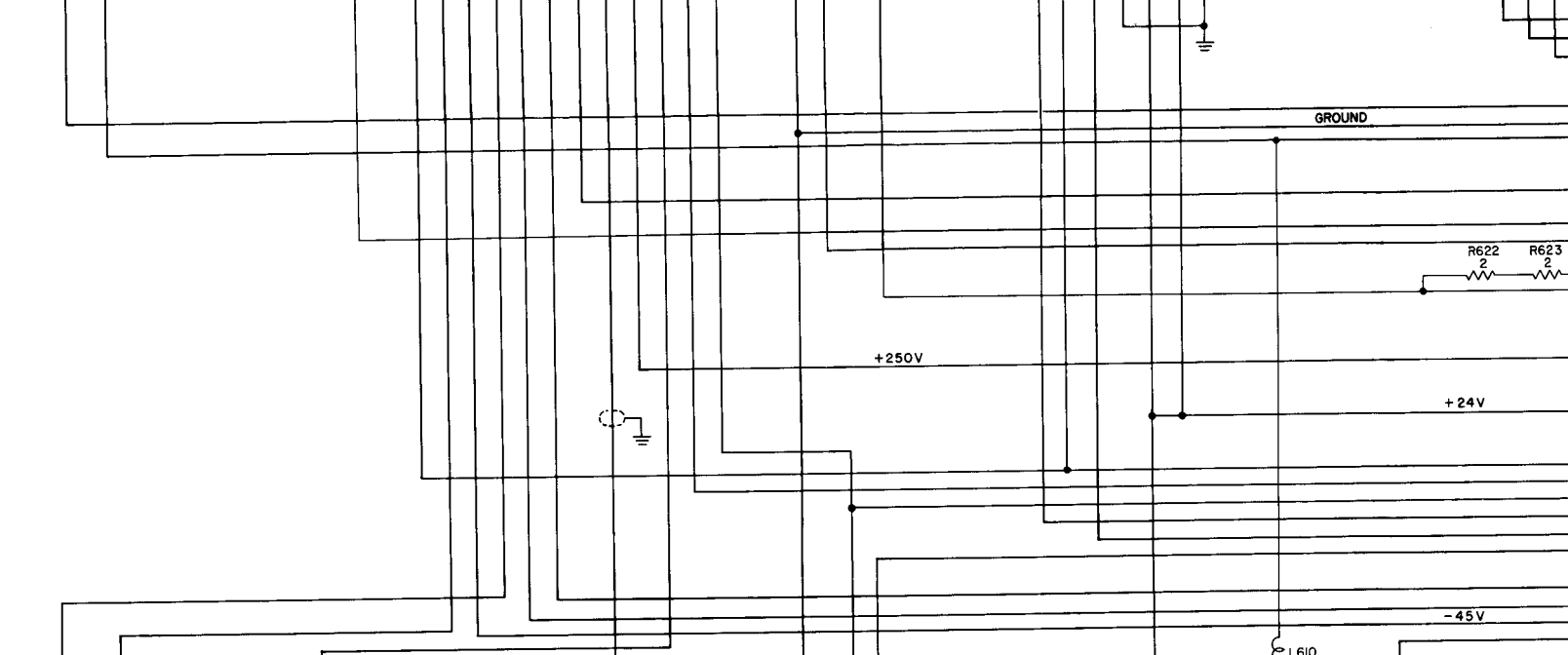


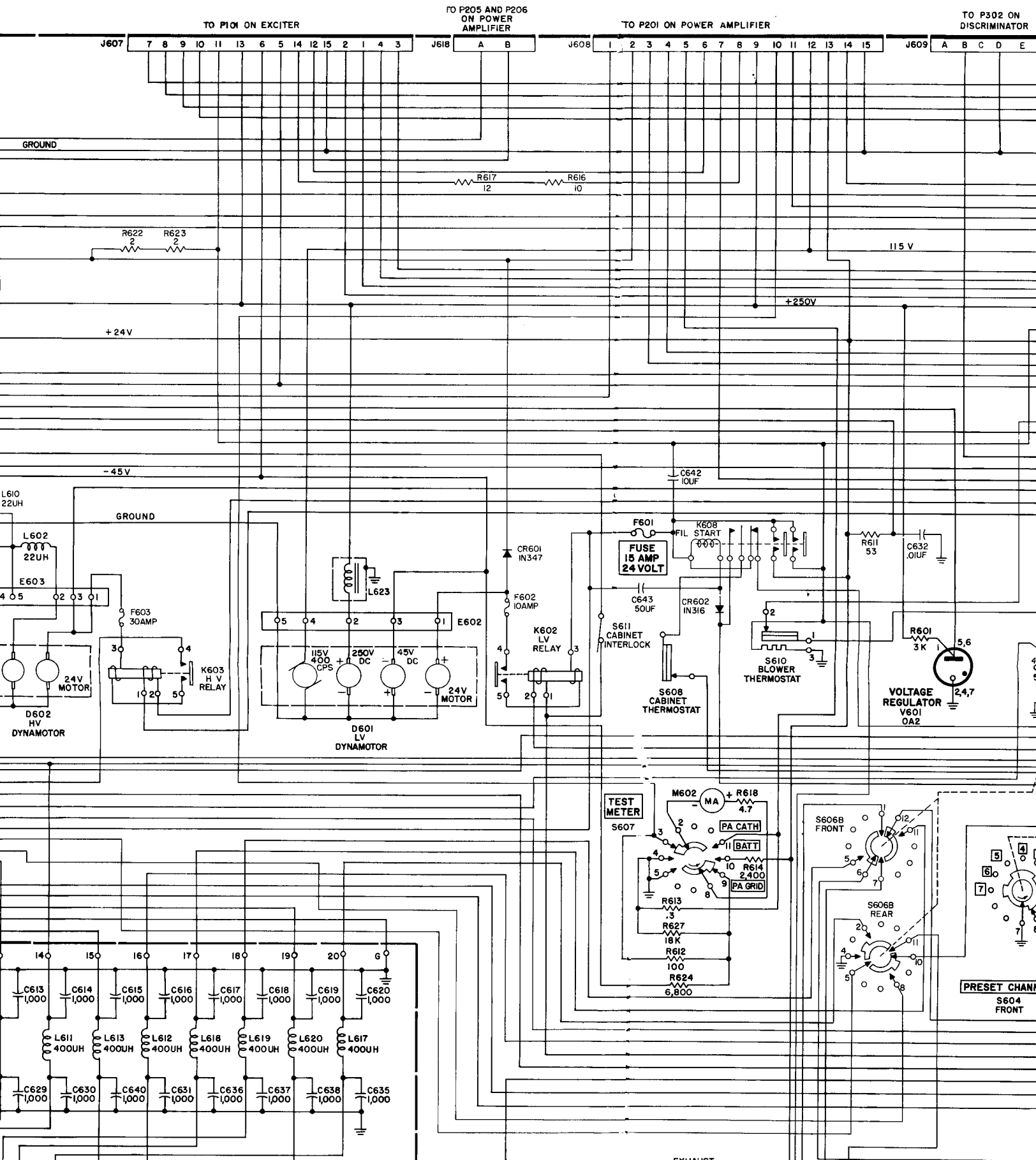
TO P402 AND P403
ON MODULATOR

TO P401 ON MODULATOR

TO P802 ON MASTER OSCILLATOR

619 A B J606 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 J617 A B C D E F H J607 7 8 9



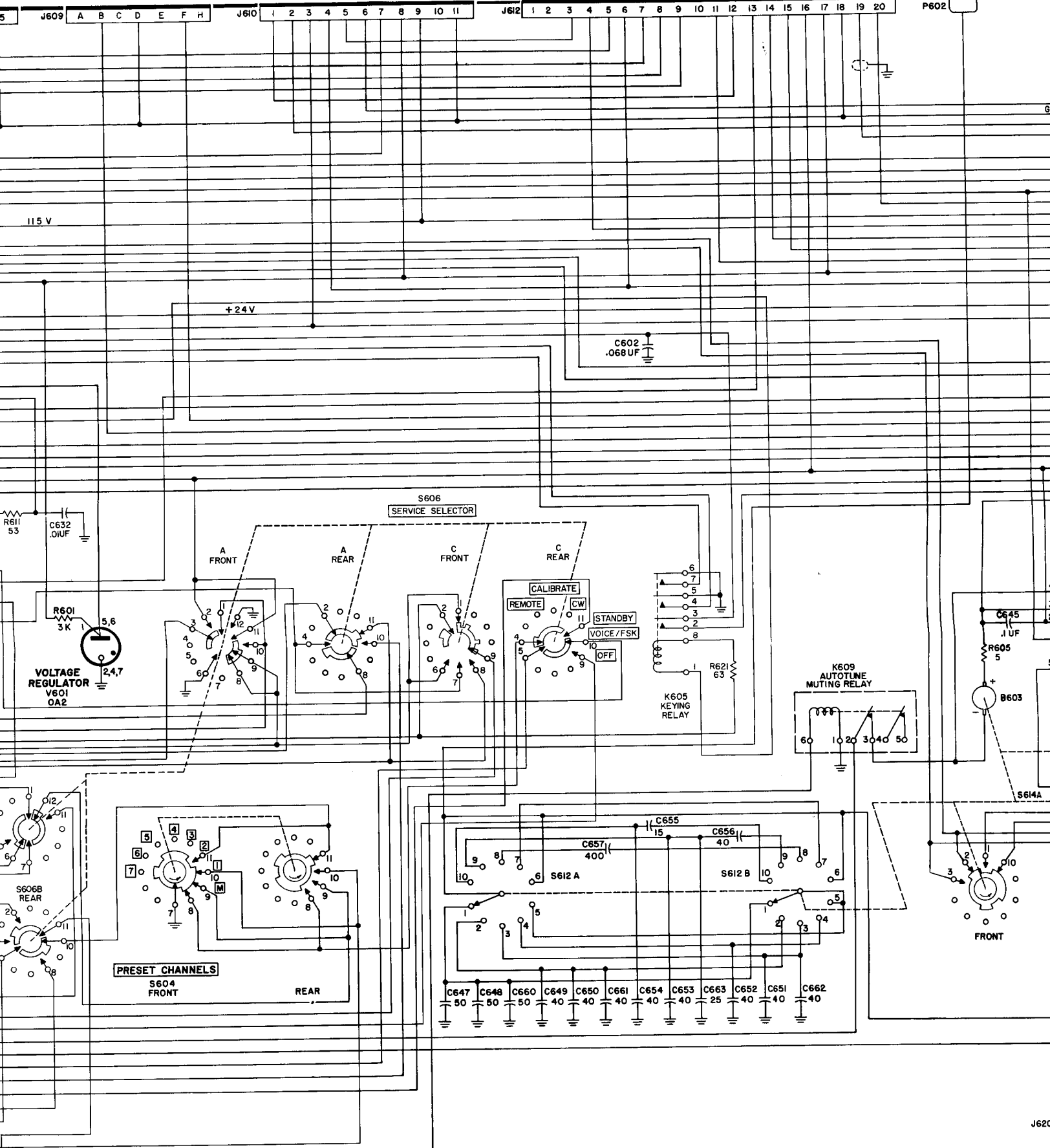


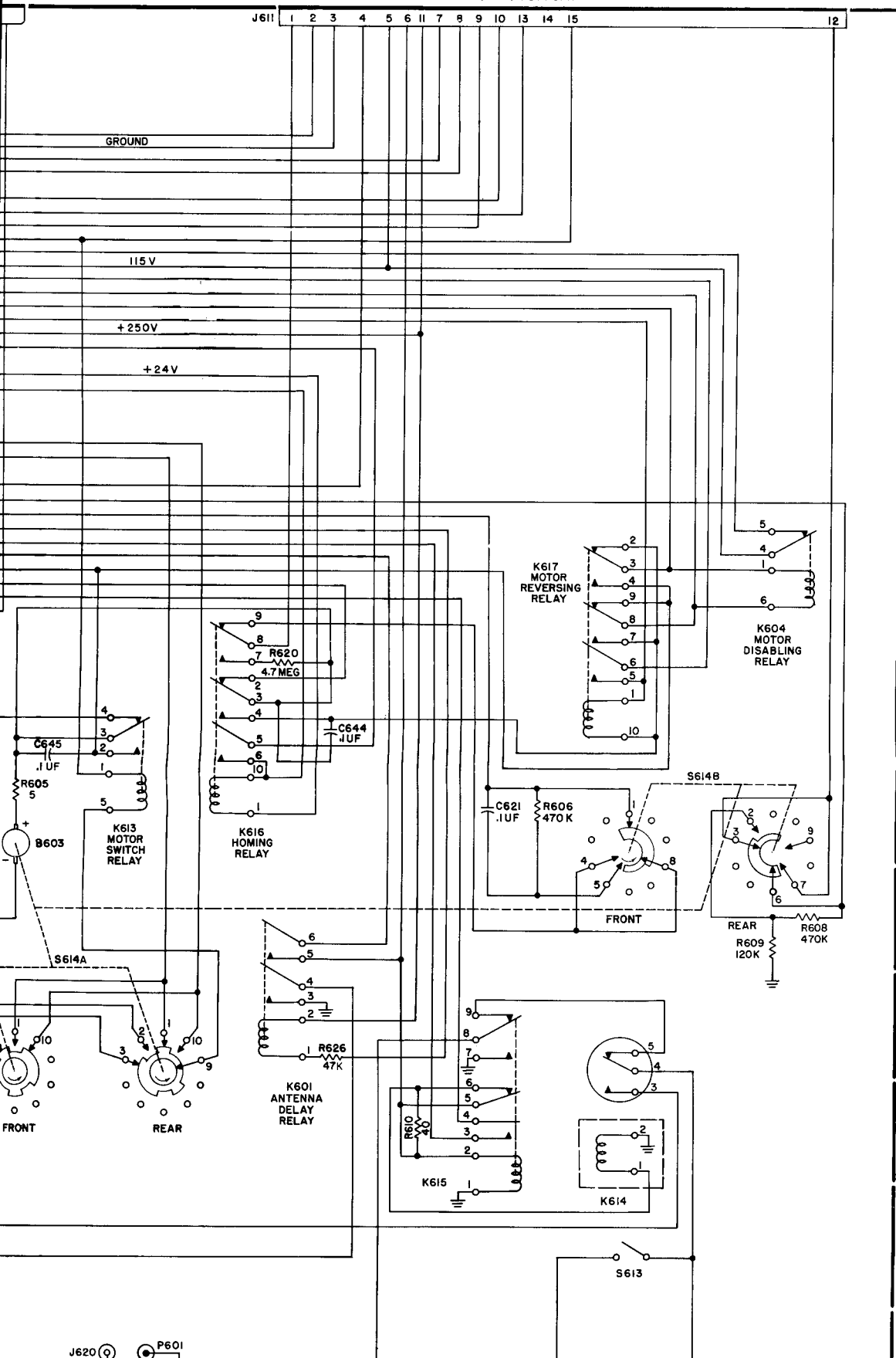
TO P302 ON
DISCRIMINATOR

TO P1001 ON ANTENNA TUNING CAPACITOR

TO P1001 ON VARIABLE INDUCTOR

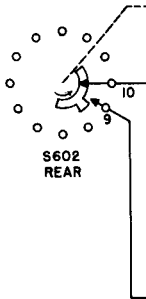
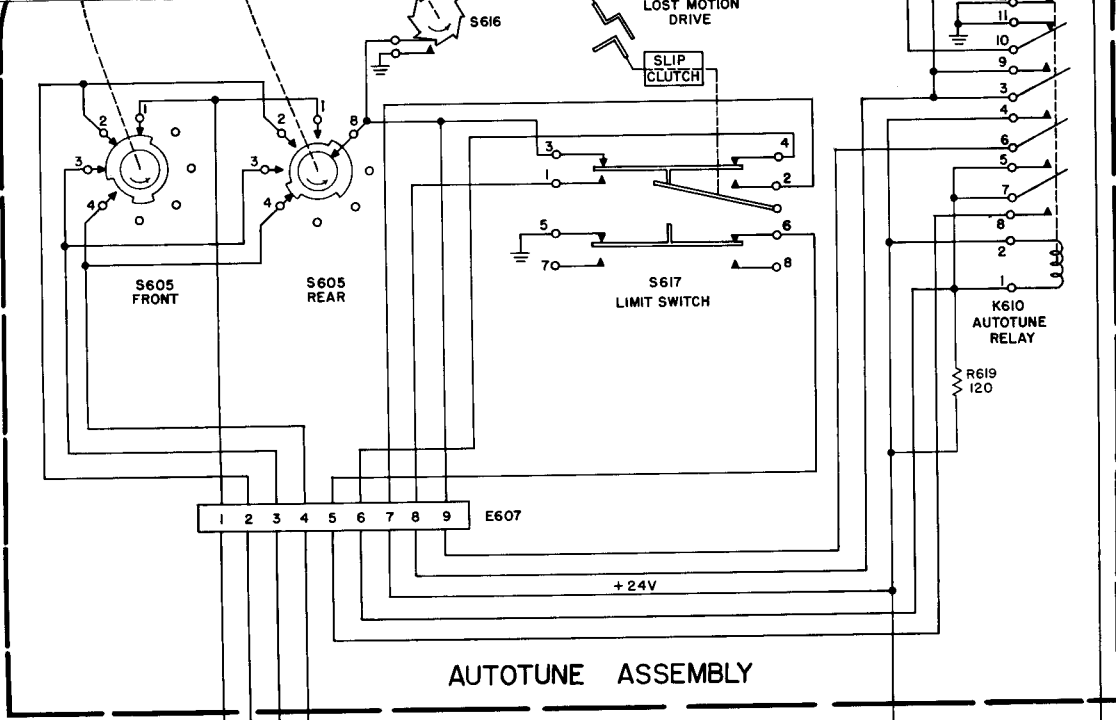
TO J1102 ON
VARIABLE
INDUCTOR





NOTES:

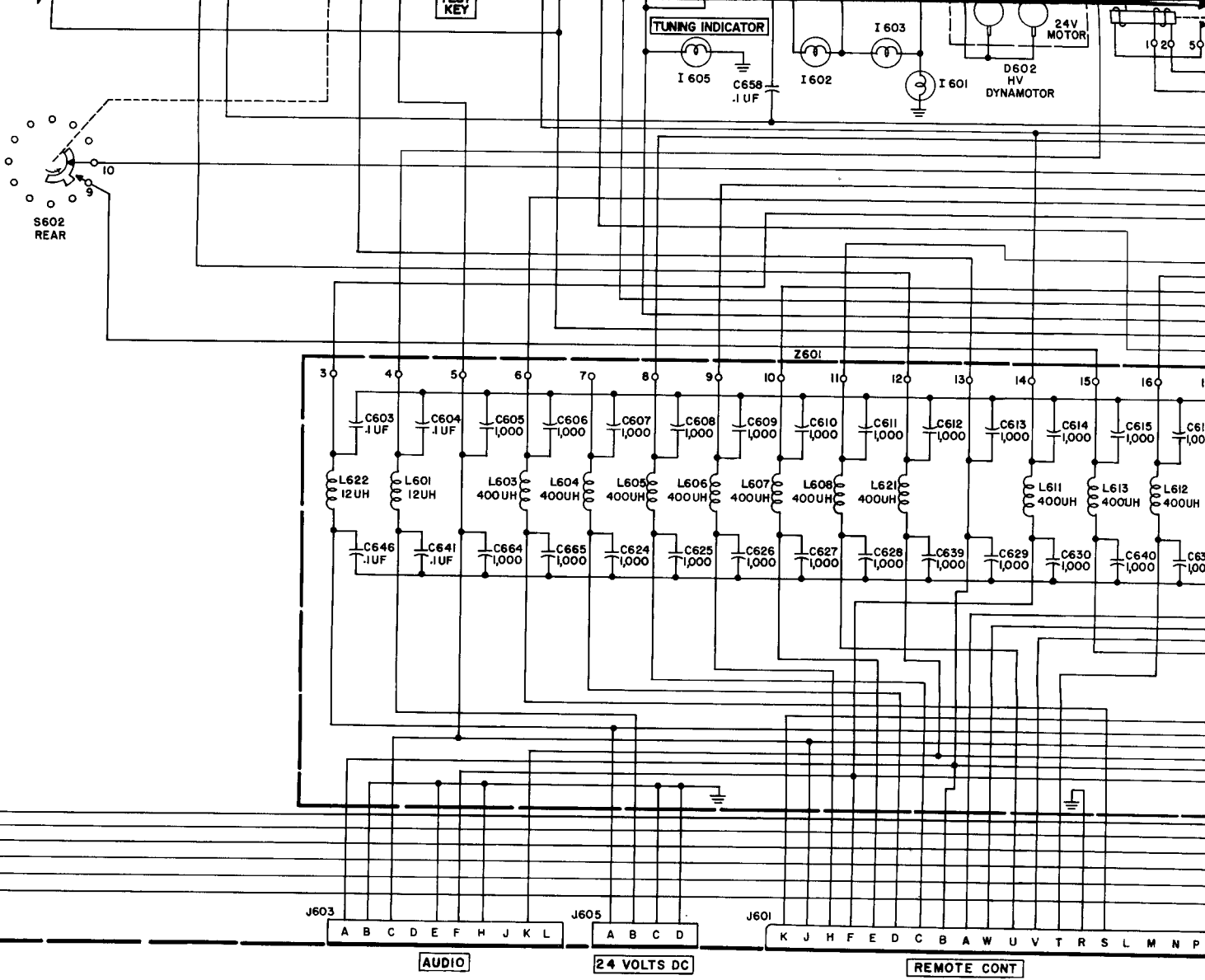
1. UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN UUF.
2. ALL SWITCHES ARE VIEWED FROM
THE REAR OF THE EQUIPMENT.
3. SWITCHES ARE SHOWN IN THEIR FULL
COUNTERCLOCKWISE POSITIONS, OR
POSITIONED FOR THE 1.5 TO 1.7 MC
RANGE.
4. RELAYS ARE SHOWN IN THEIR NORMAL
POSITIONS WITH POWER REMOVED.



AUTOTUNE ASSEMBLY

+24V

+24V



TUNING INDICATOR

I 605

C658
.1UF

I 602

I 603

I 601

D602
HV
DYNAMOTOR

24V
MOTOR

Z601

3

4

5

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97

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100

101

102

103

104

105

J603

A B C D E F H J K L

AUDIO

J605

A B C D

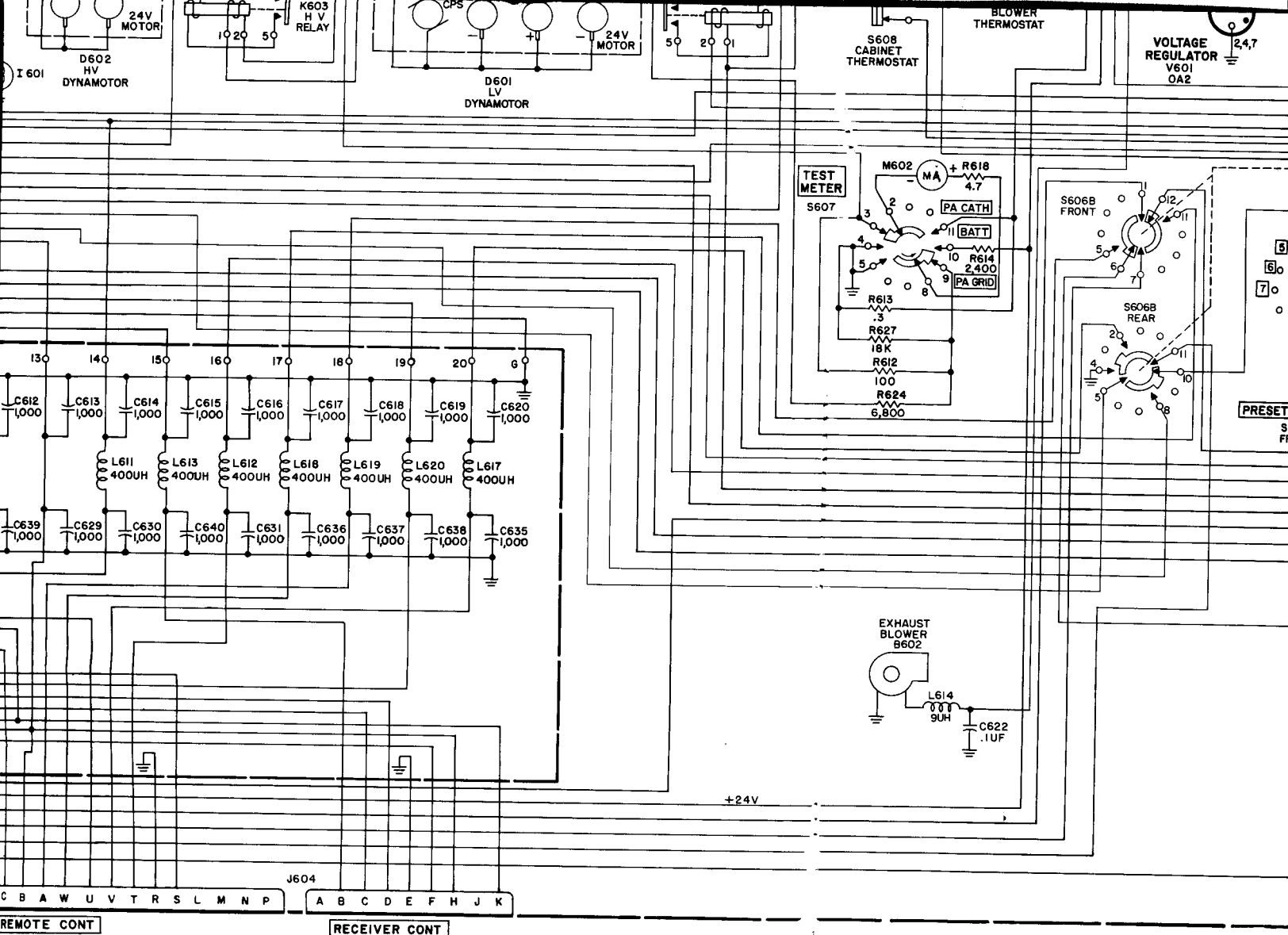
24 VOLTS DC

J601

K J H F E D C B A W U V T R S L M N P

REMOTE CONT

24V

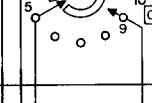
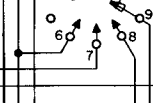
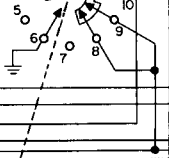


J604

C	B	A	W	U	V	T	R	S	L	M	N	P	A	B	C	D	E	F	H	J	K
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

REMOTE CONT RECEIVER CONT

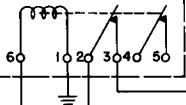
VOLTAGE
REGULATOR
V601
0A2



K605
KEYING
RELAY

R621
63

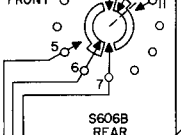
K609
AUTOTUNE
MUTING RELAY



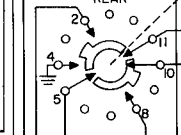
R605
5

96

S606B
FRONT

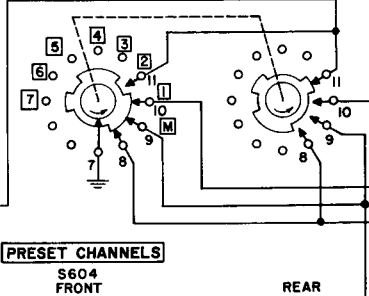


S606B
REAR

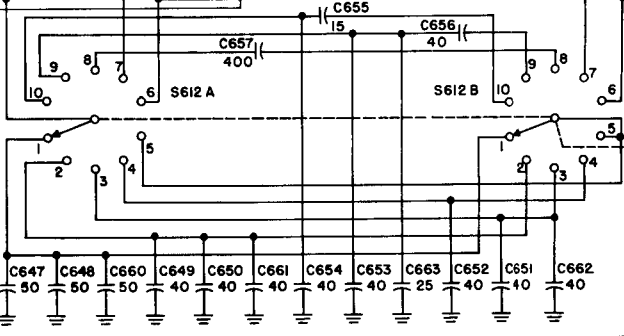


PRESET CHANNELS

S604
FRONT

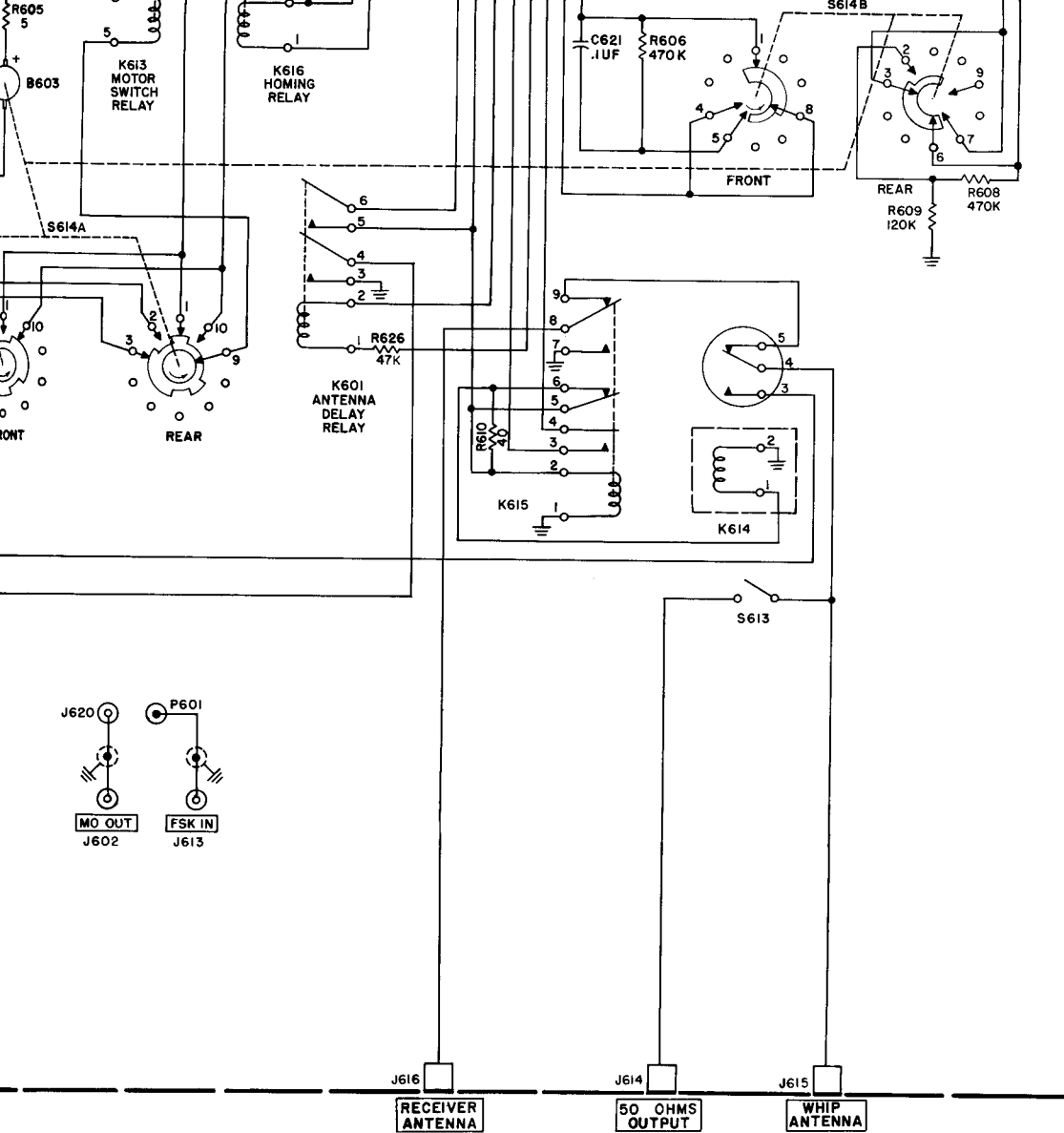


REAR



FRONT

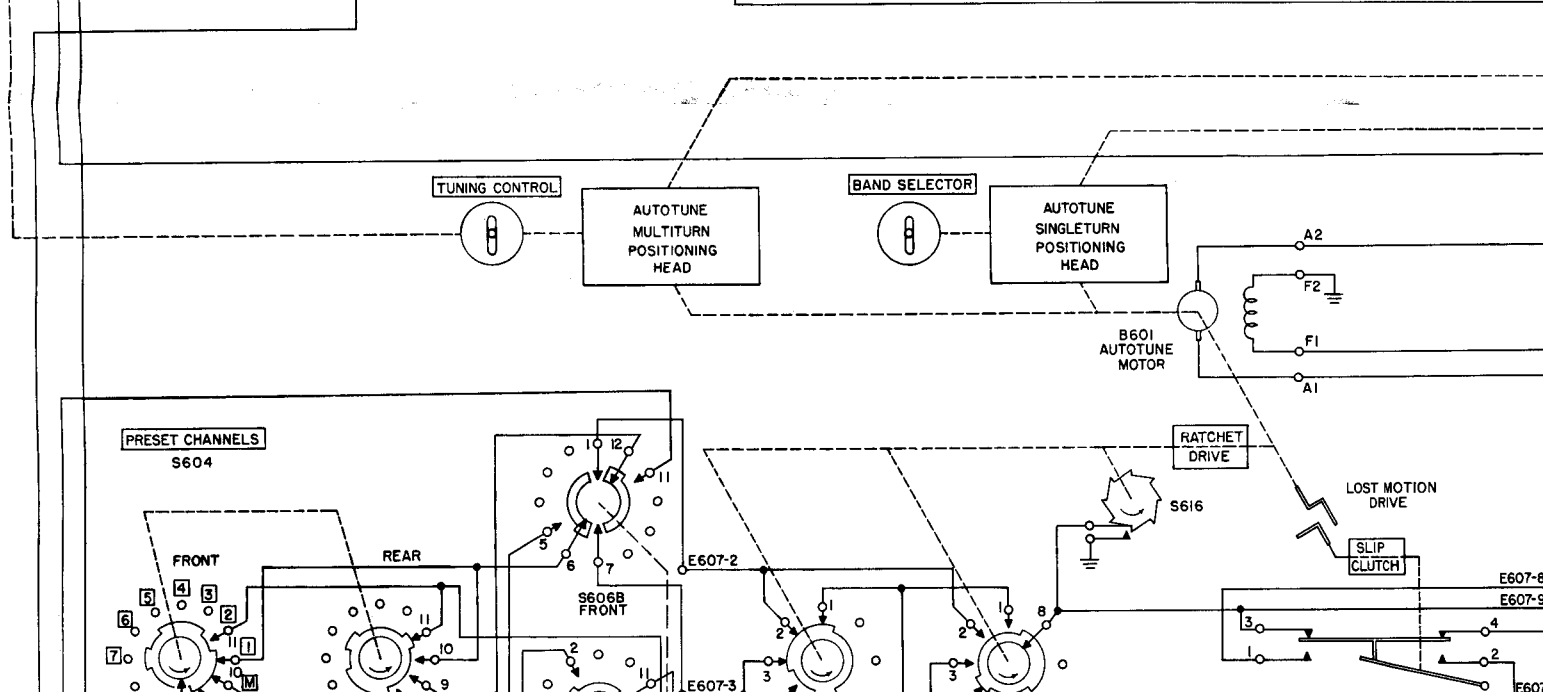
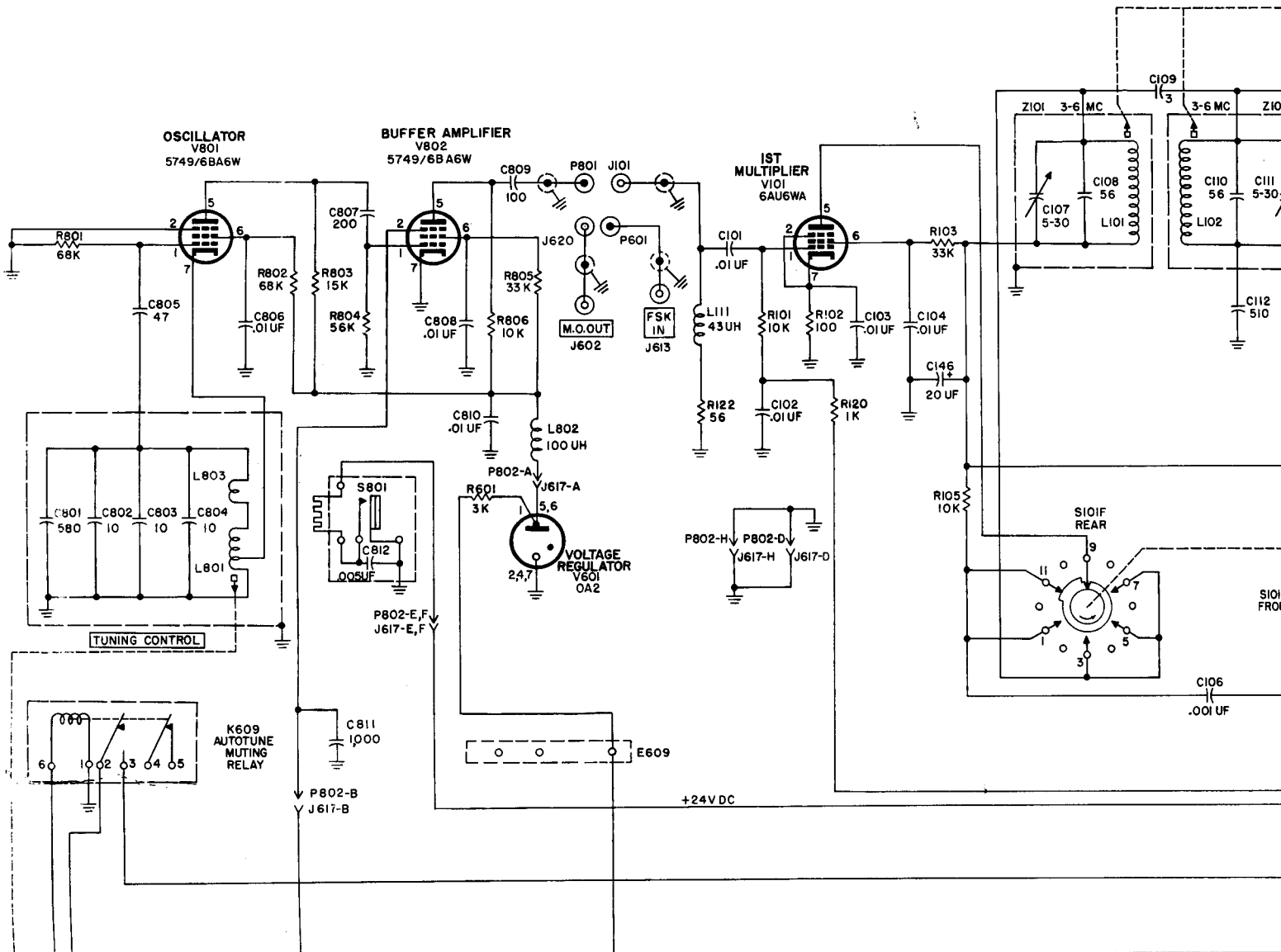
96

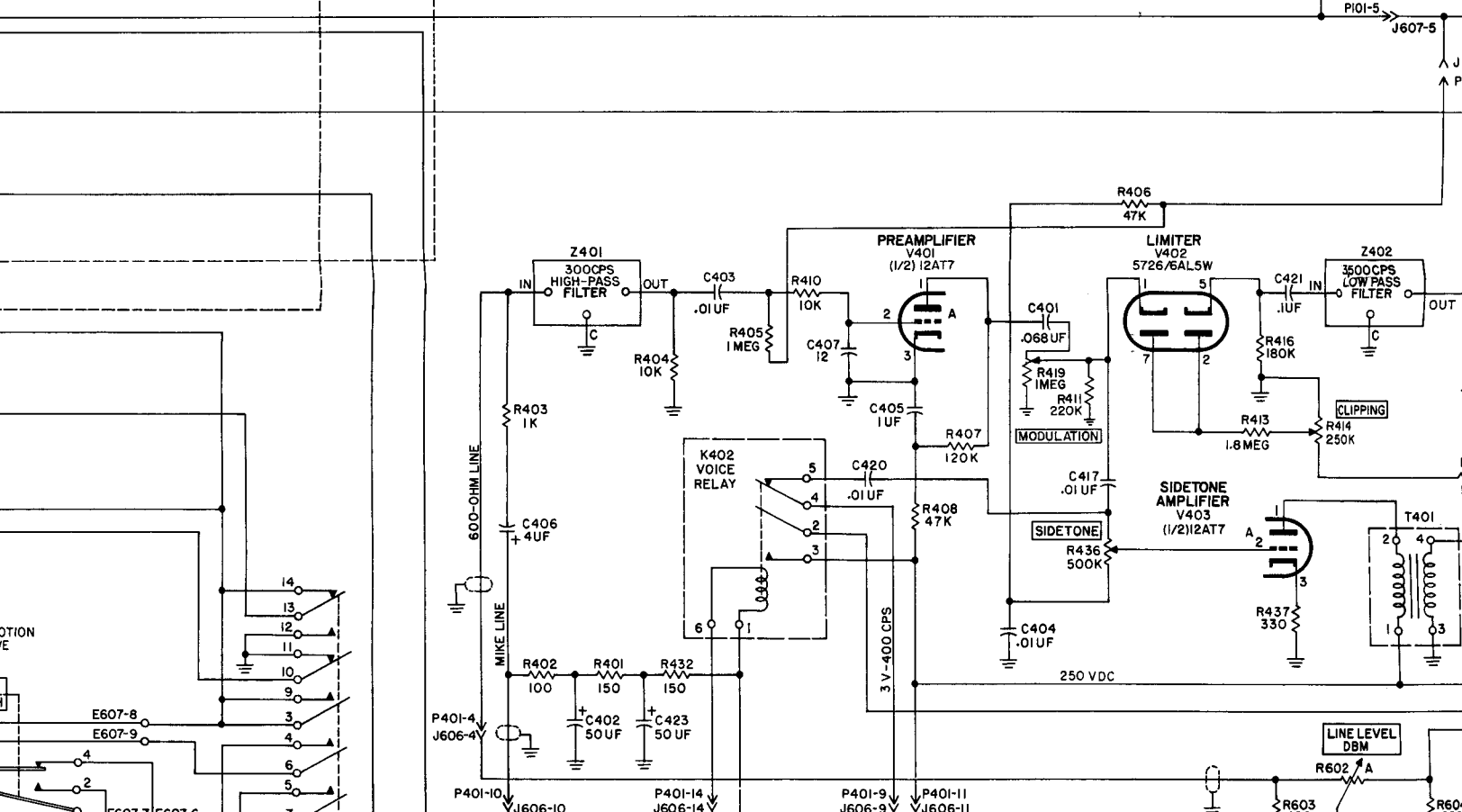
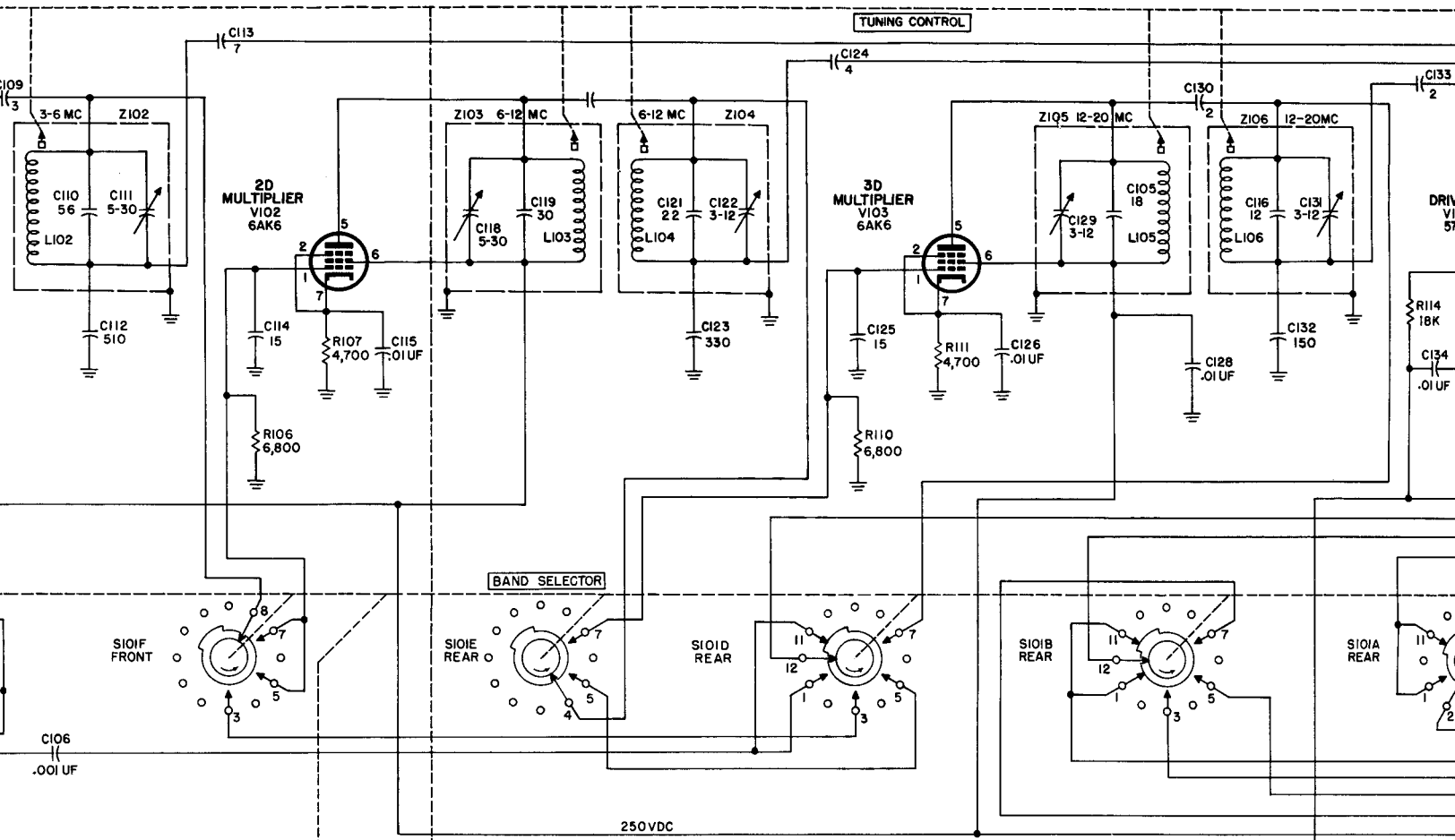


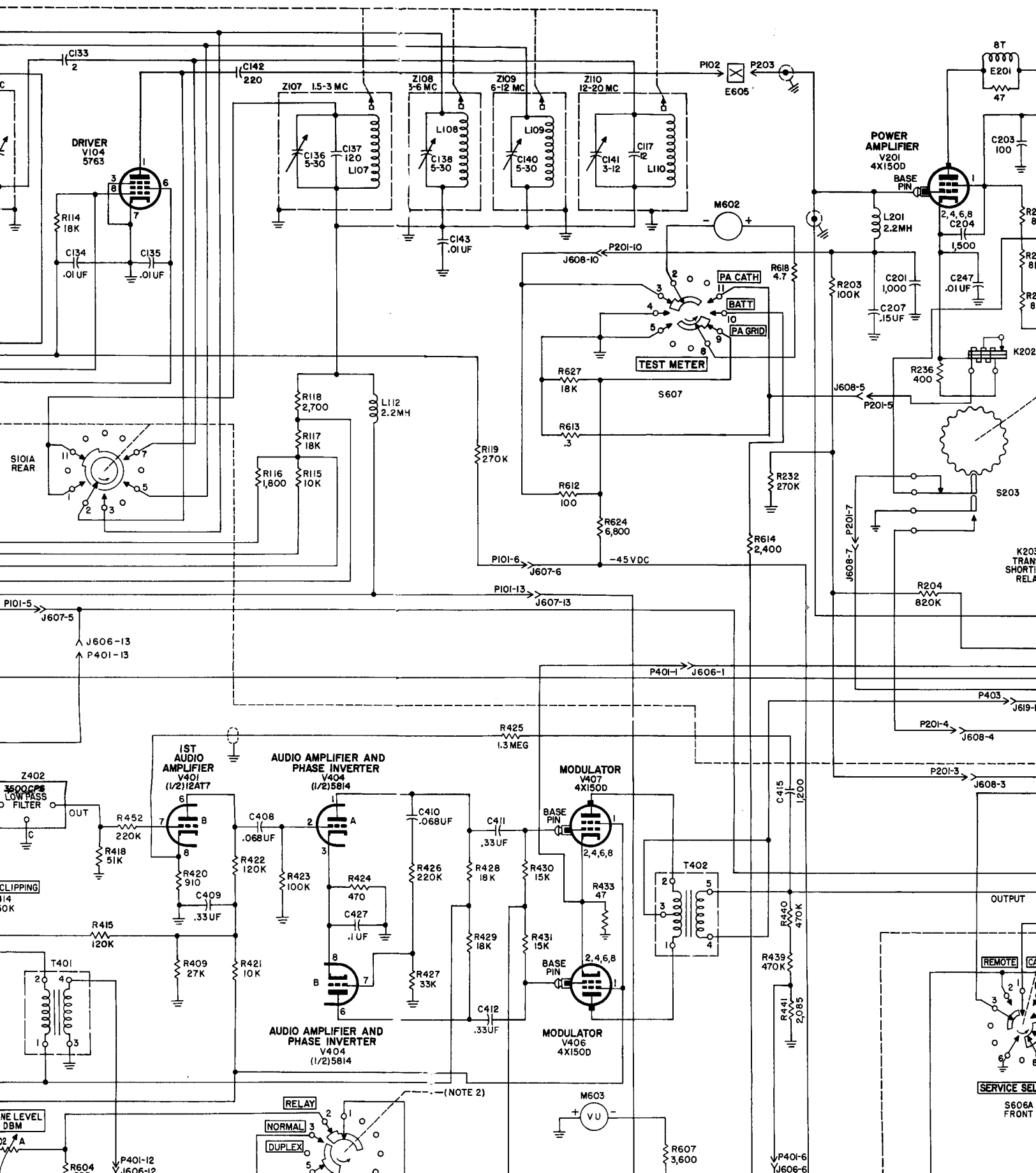
1. UNLESS OTHERWISE SHOWN, RESISTORS ARE IN OHMS, CAPACITORS ARE IN UUF.
2. ALL SWITCHES ARE VIEWED FROM THE REAR OF THE EQUIPMENT.
3. SWITCHES ARE SHOWN IN THEIR FULL COUNTERCLOCKWISE POSITIONS, OR POSITIONED FOR THE 1.5 TO 1.7 MC RANGE.
4. RELAYS ARE SHOWN IN THEIR NORMAL POSITIONS WITH POWER REMOVED.

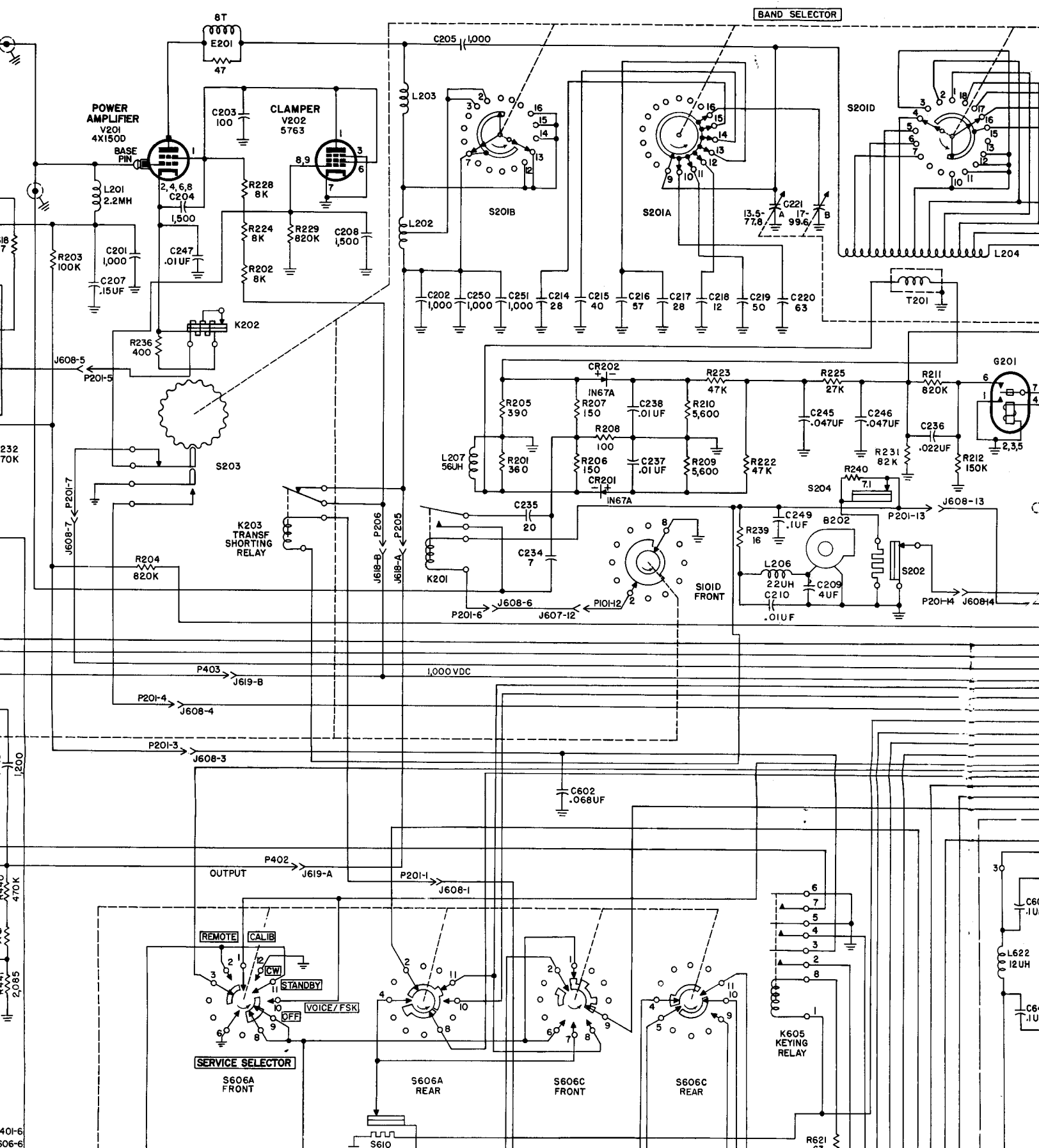
TM806-131

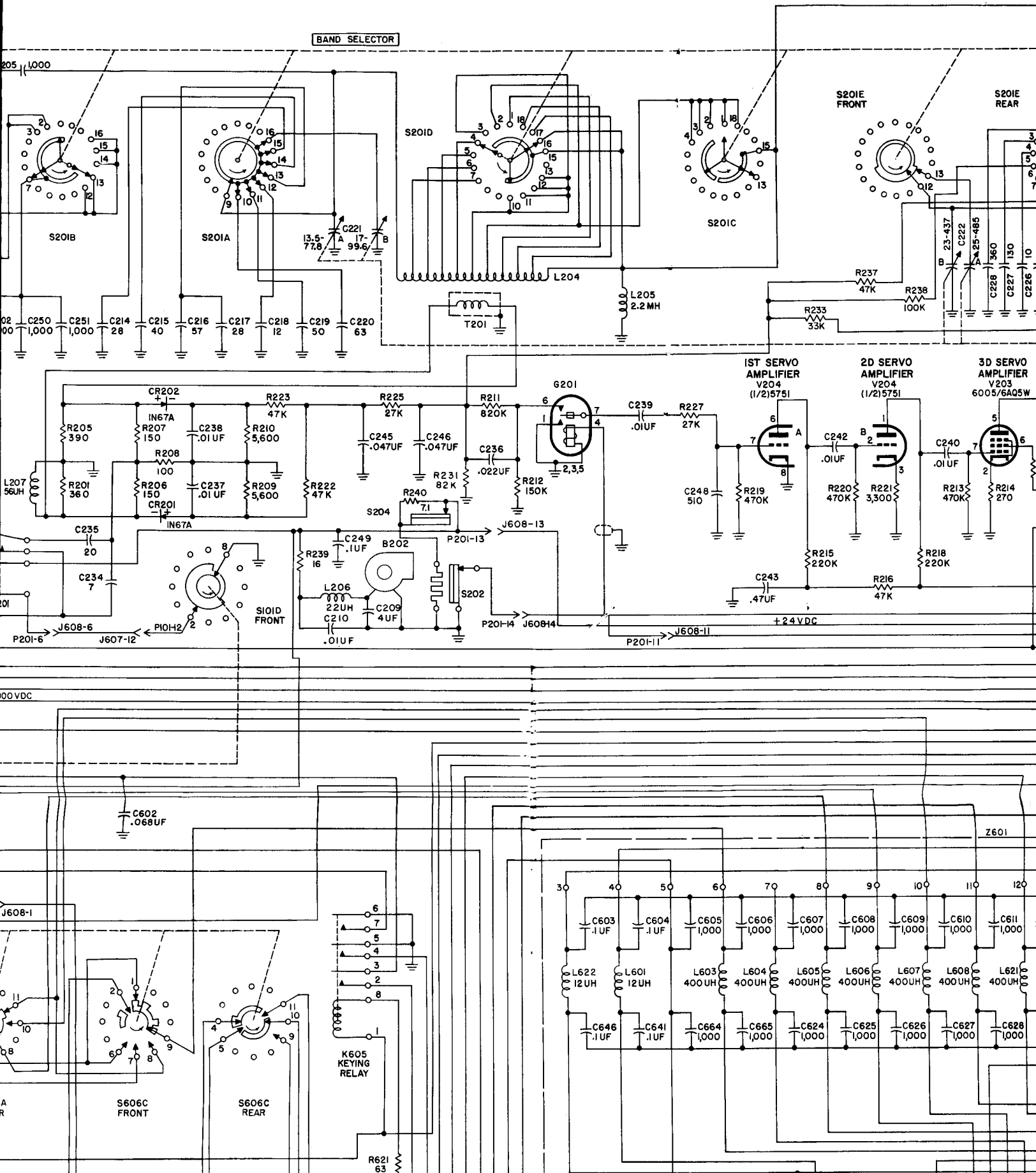
390412 O - 56 (In pocket) No. 21

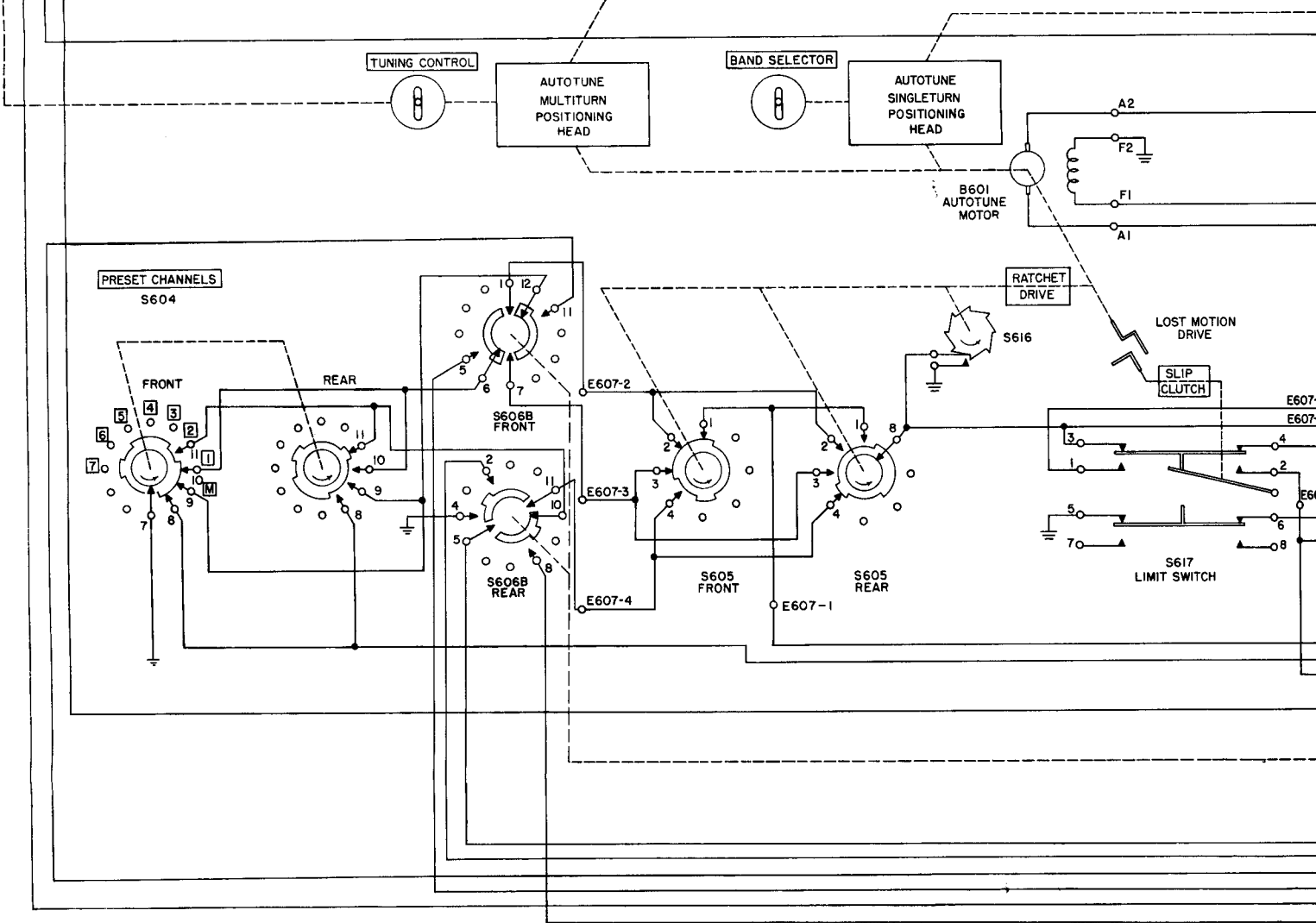




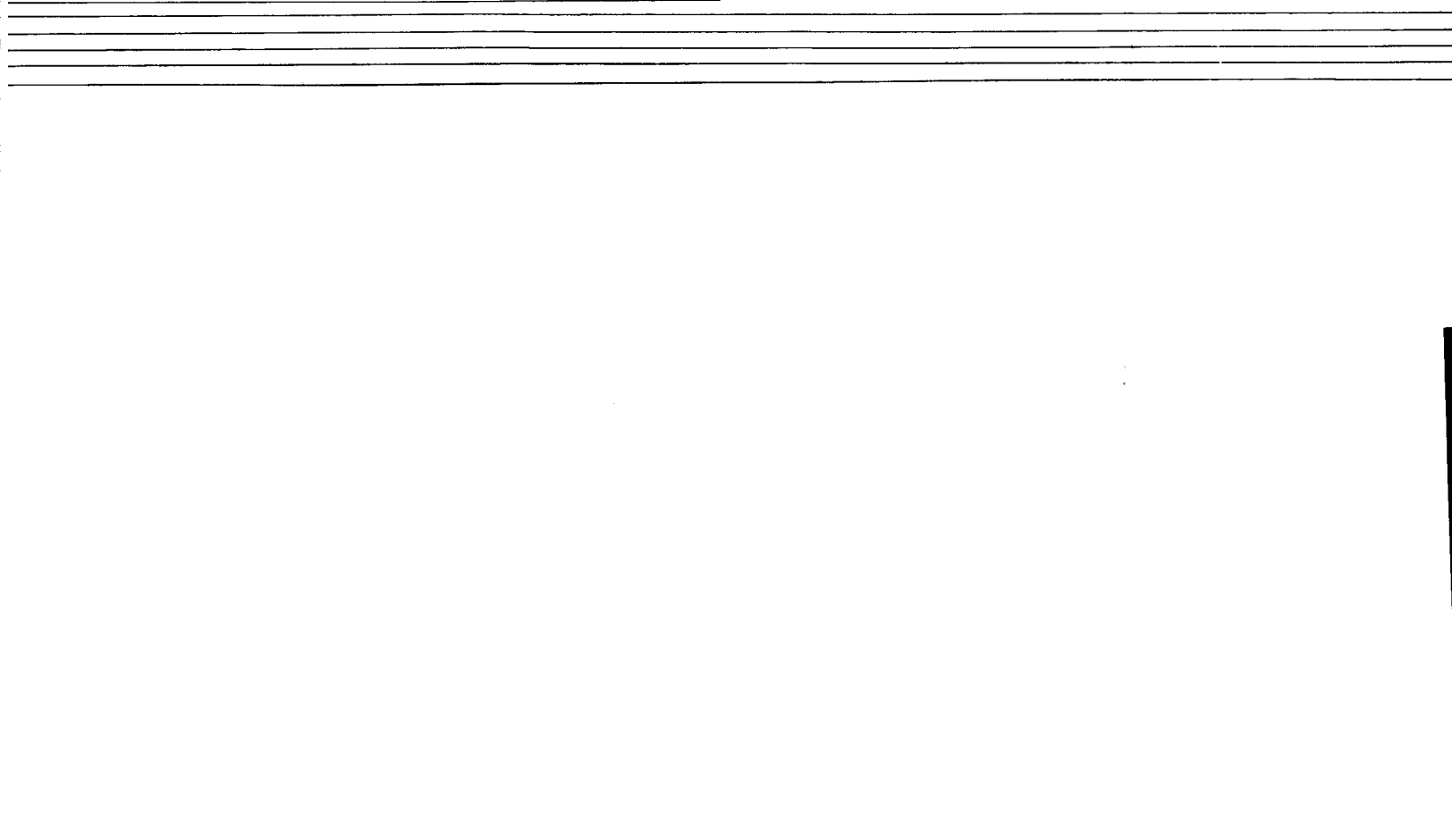
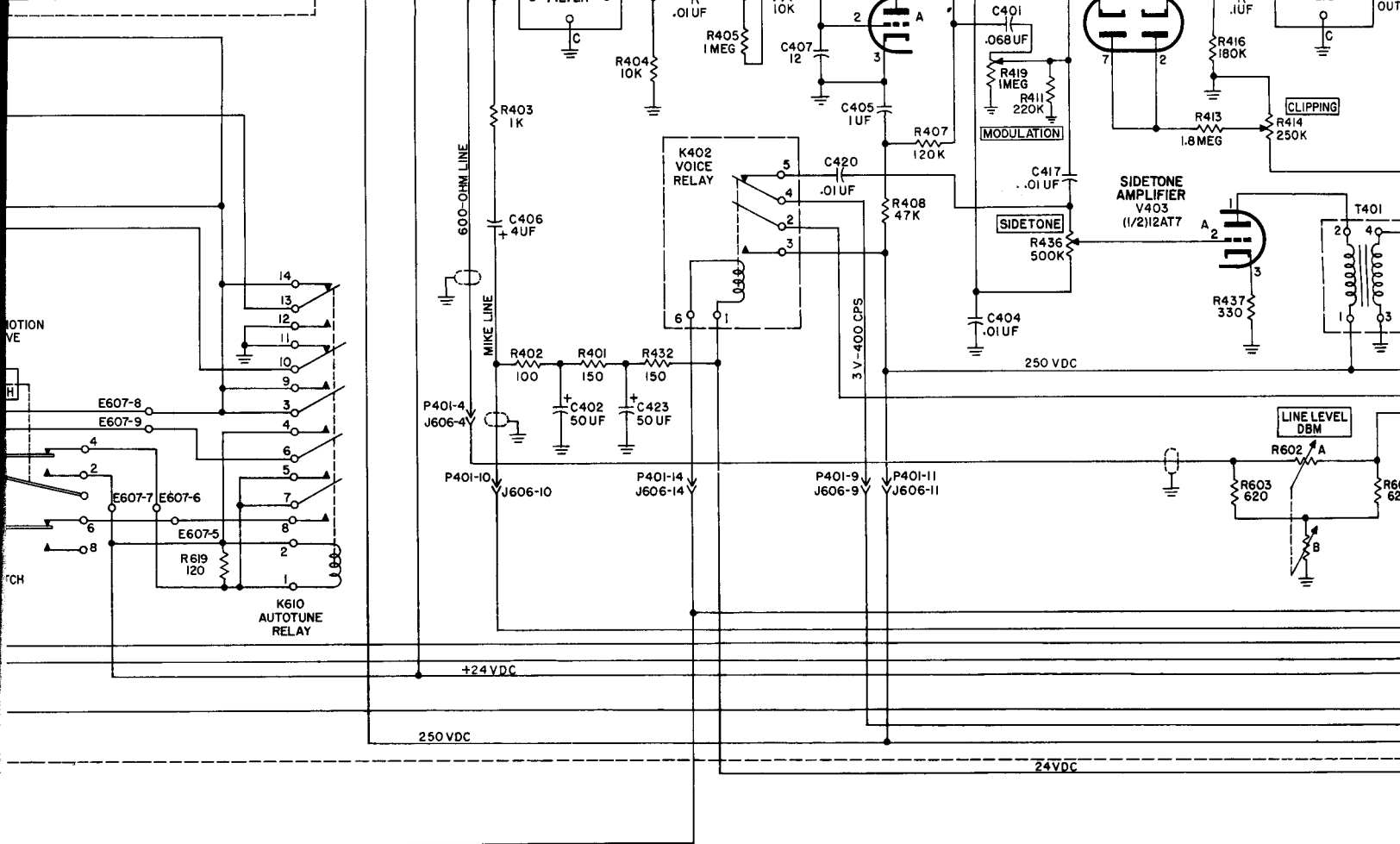








RADIO TRANSMITTER T-195/GRC-19, SCHEMATIC DIAGRAM (SHEET 1 OF 2).



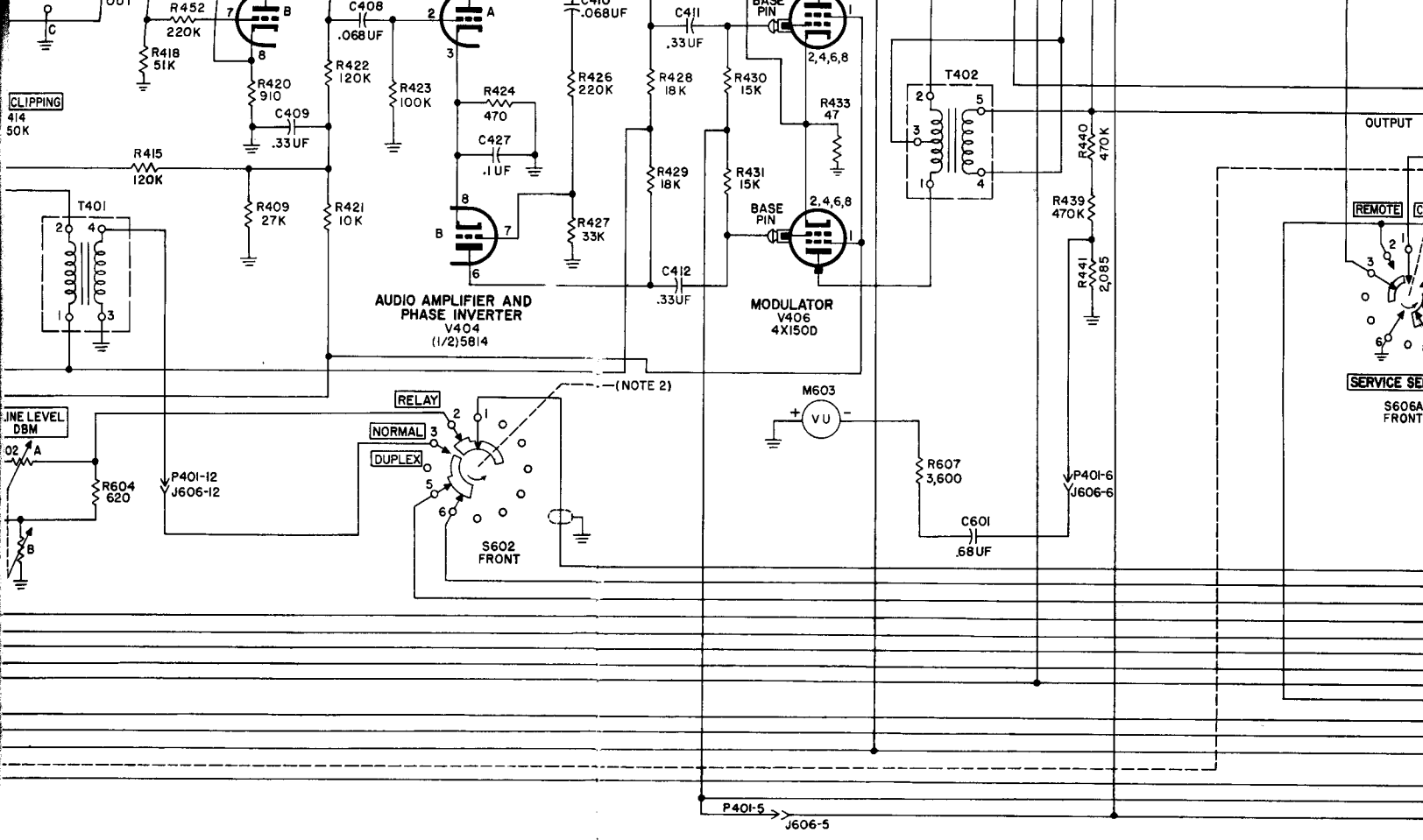
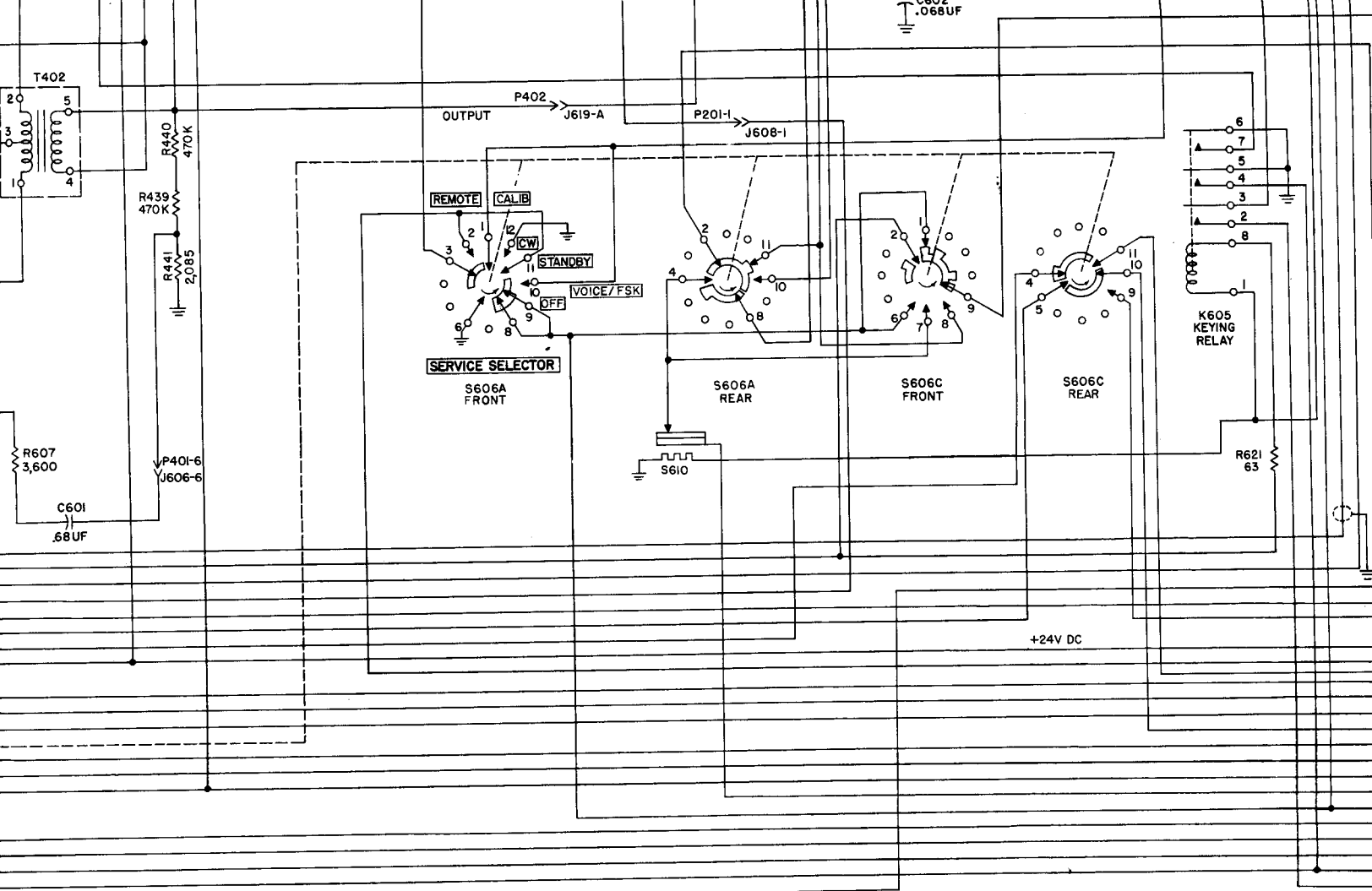
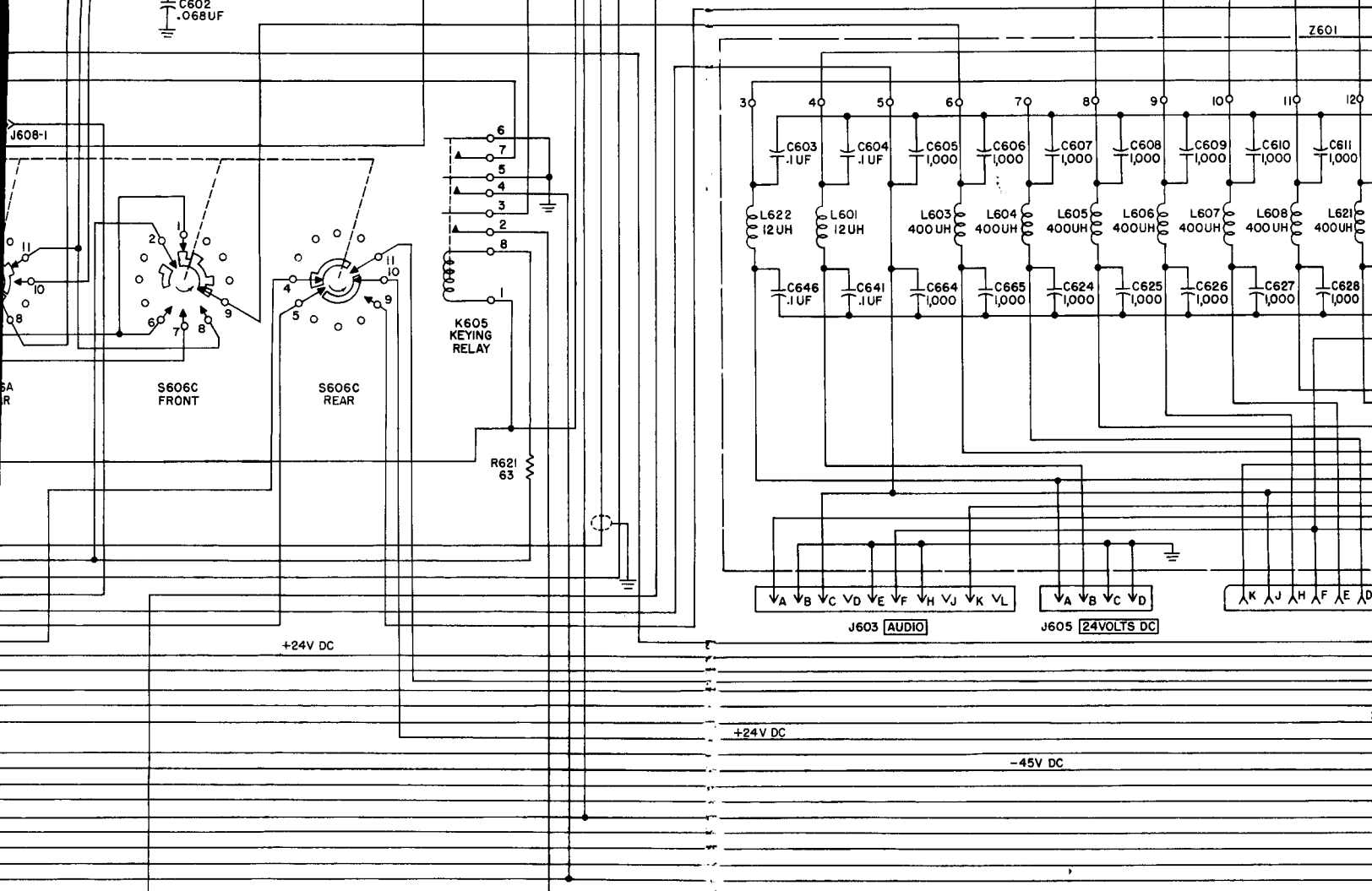


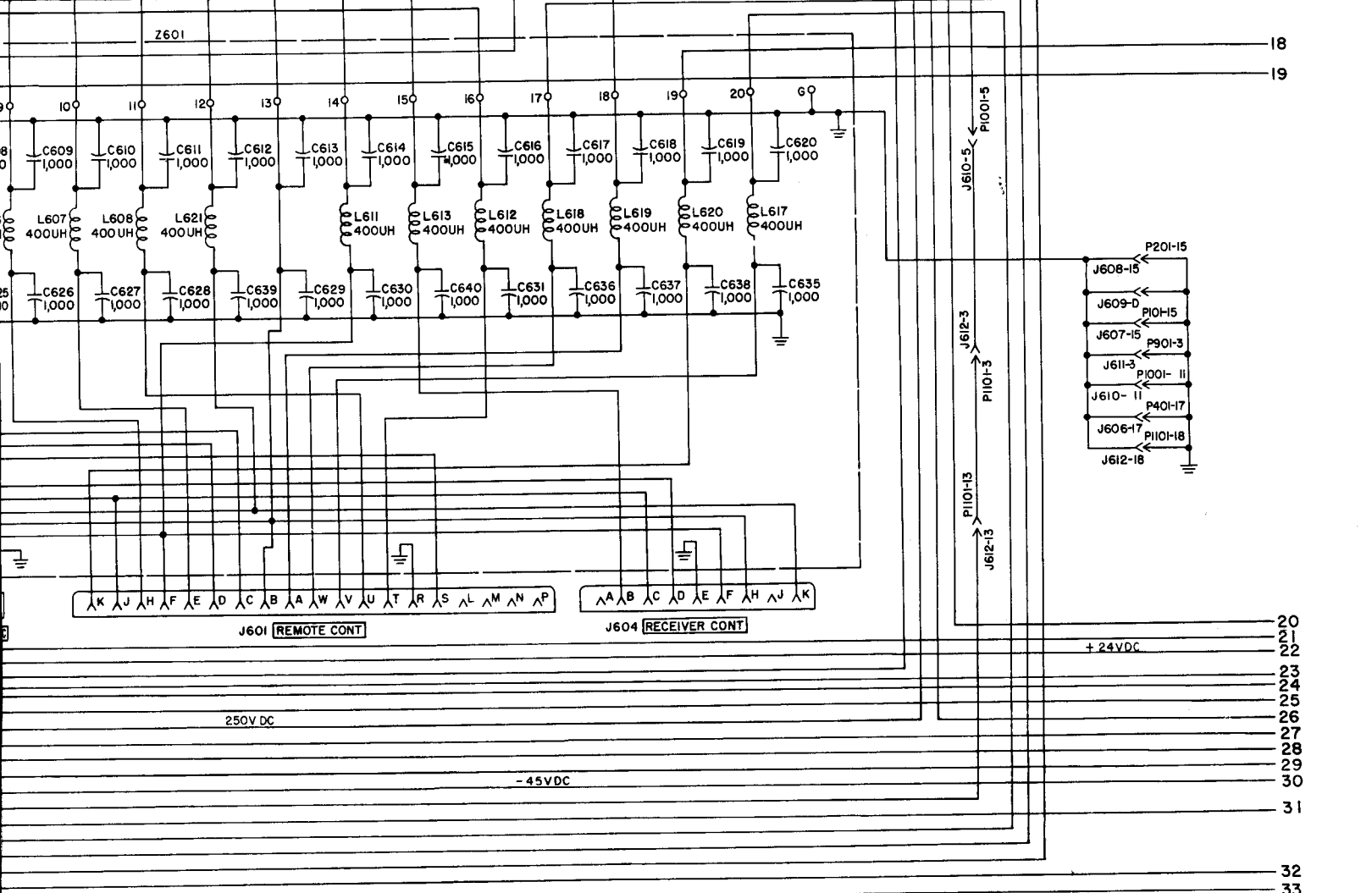
Figure 139. Radio Transmitter T-195/GRC-19, schematic



①

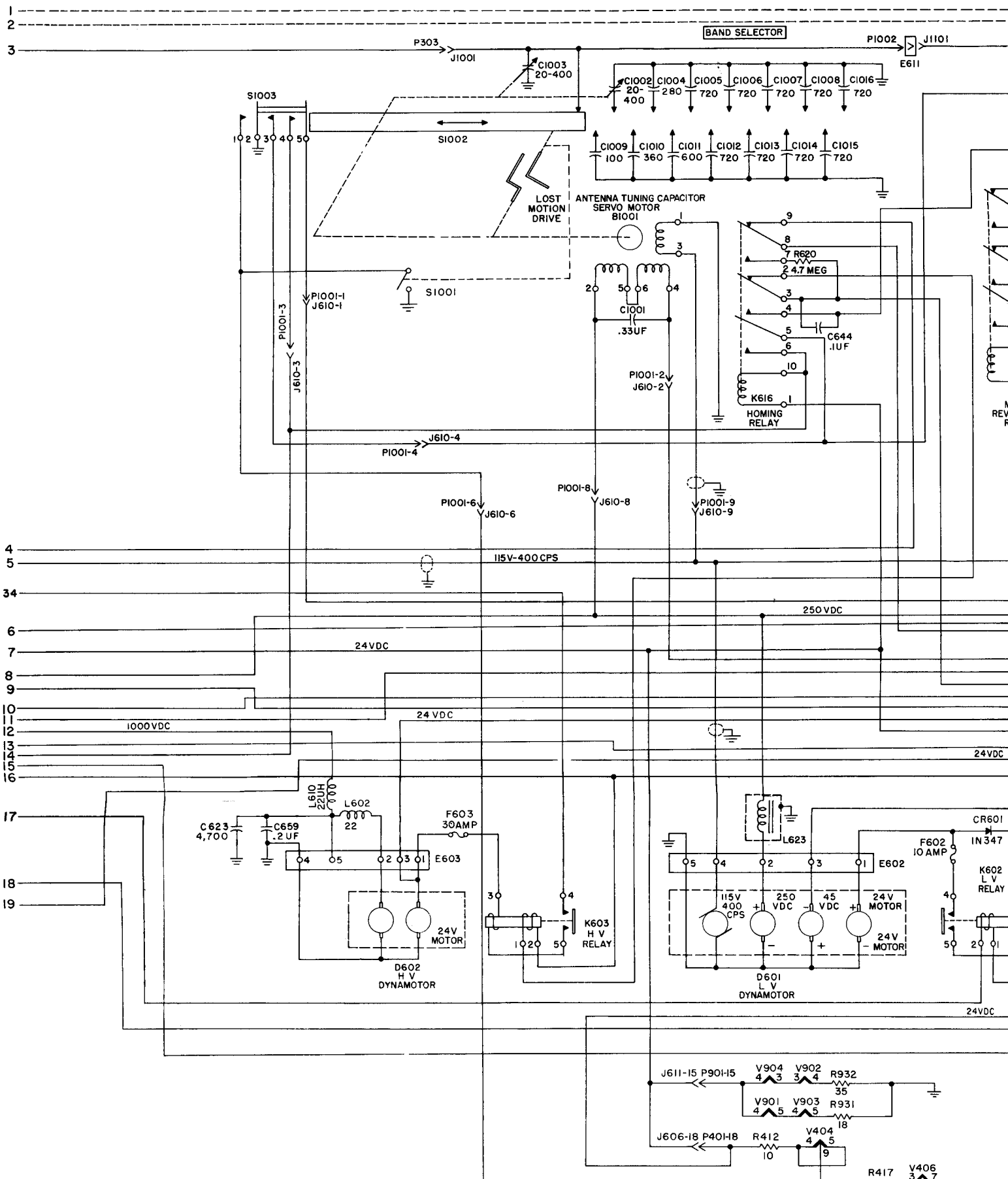
Figure 139. Radio Transmitter T-195/GRC-19, schematic diagram.

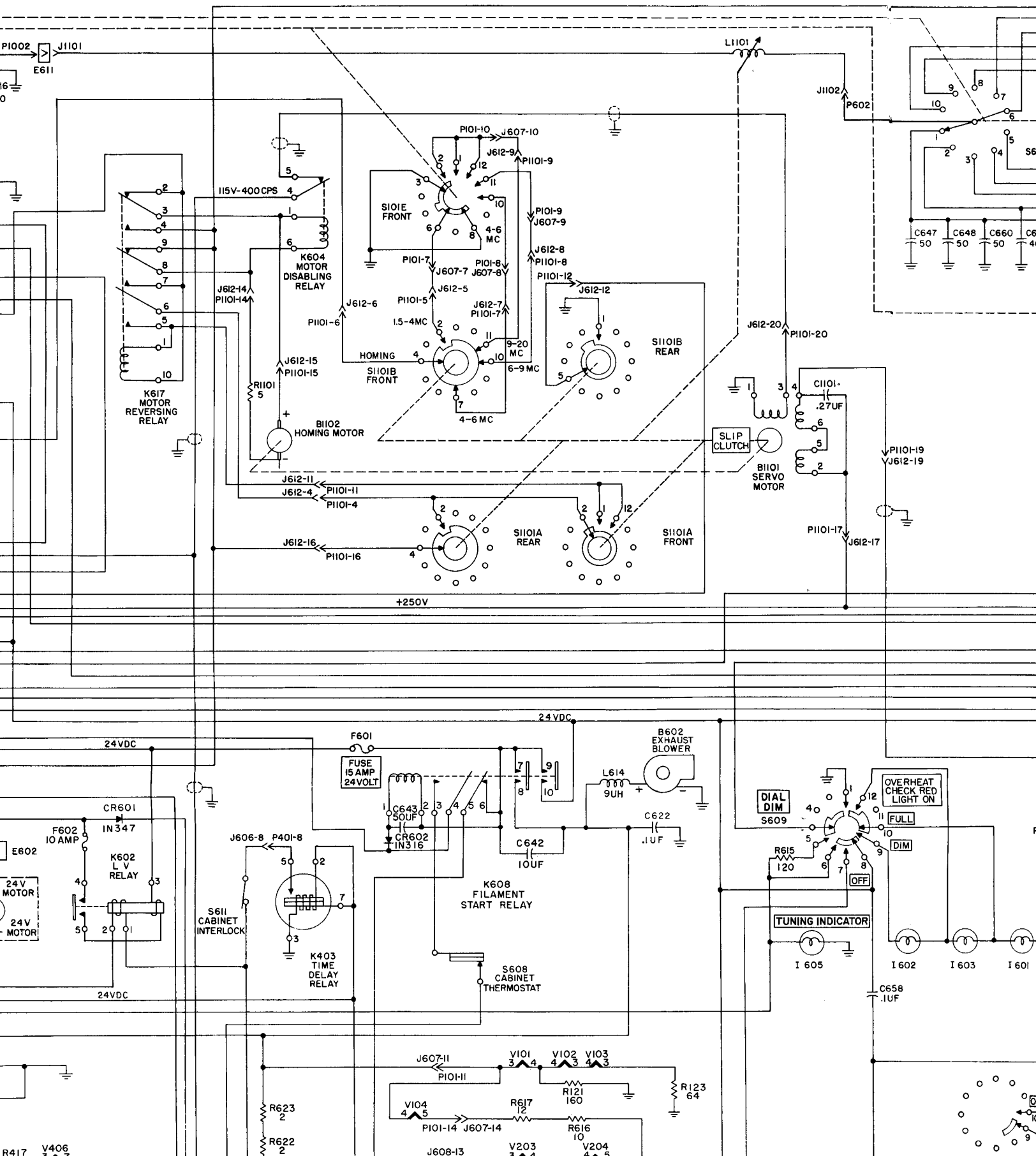


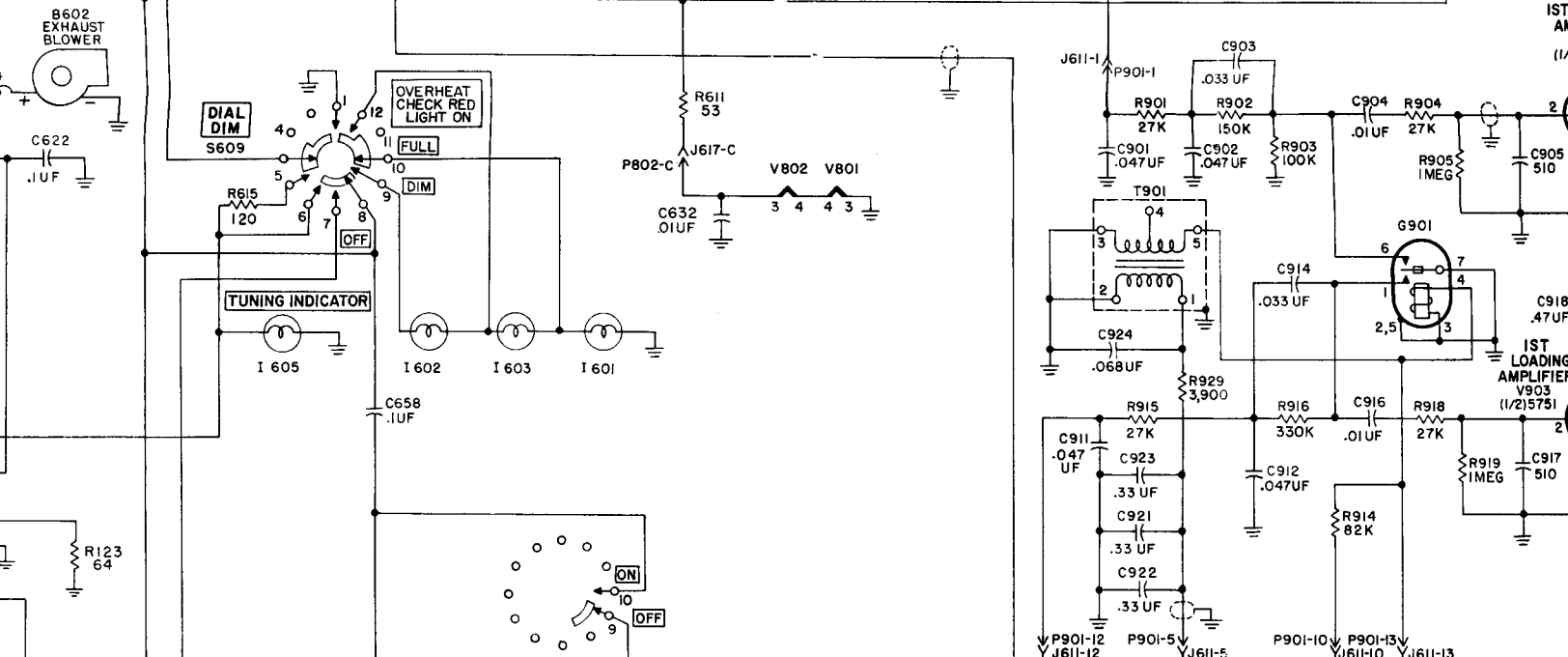
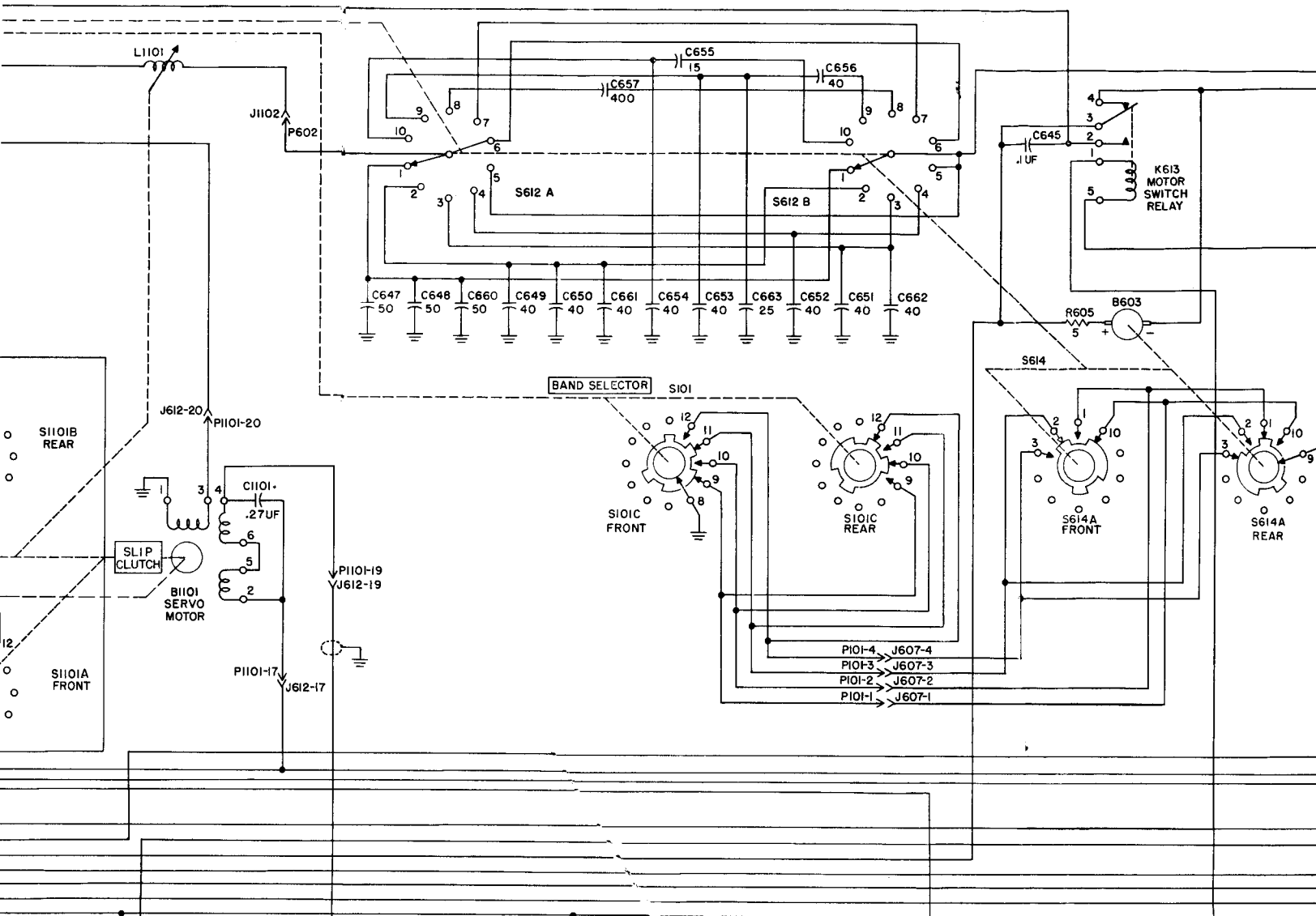


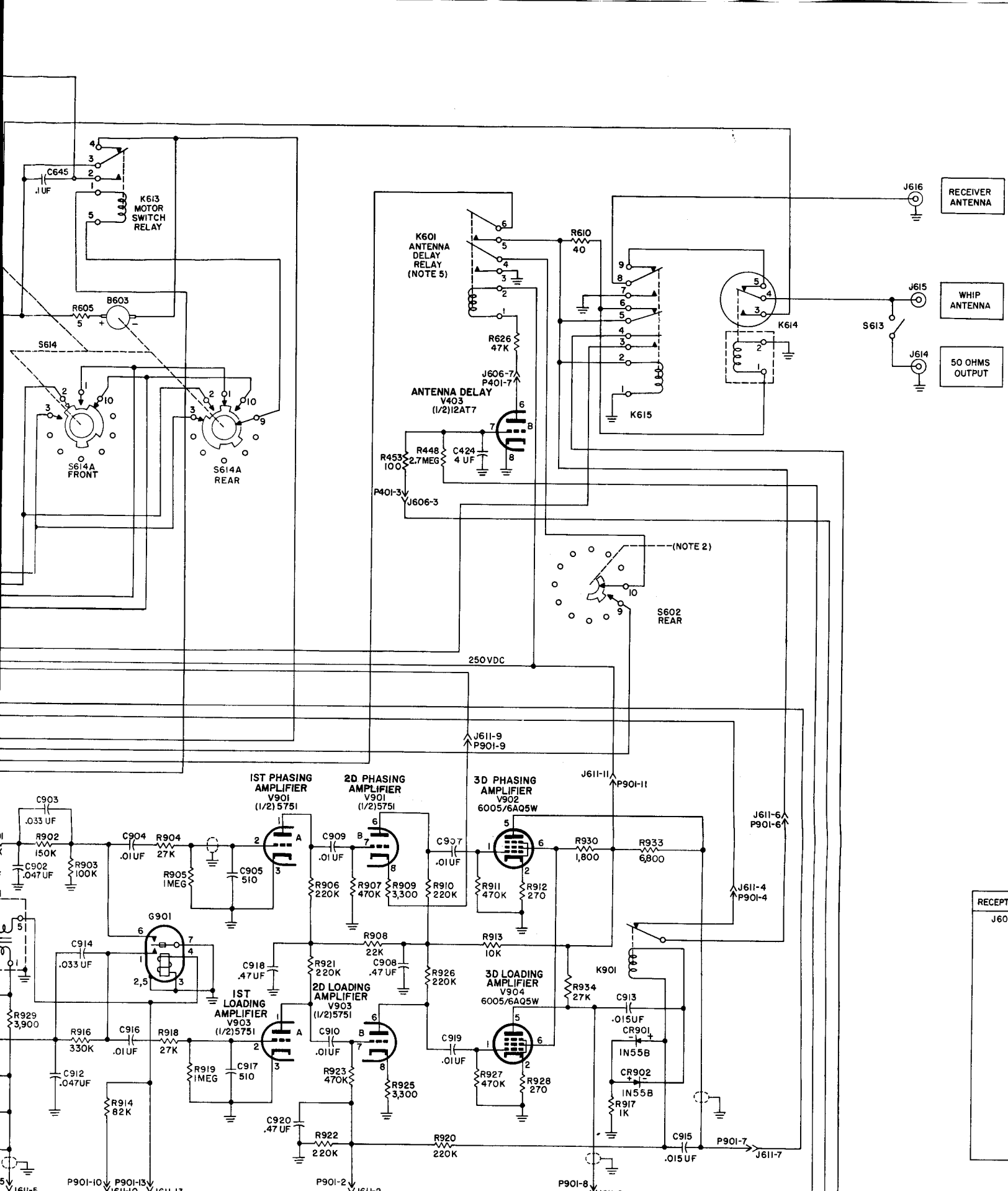
TM 806-108(1)

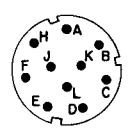
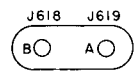
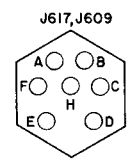
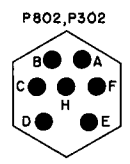
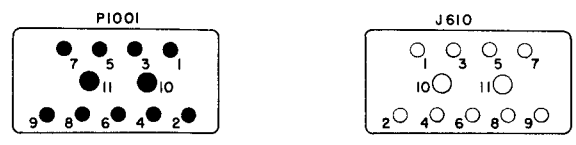
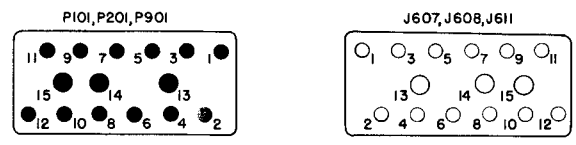
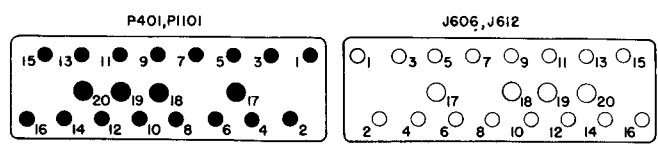
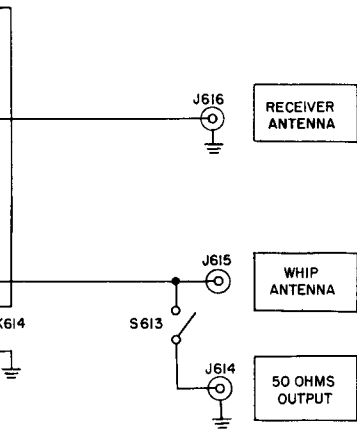
EMATIC DIAGRAM (SHEET 1 OF 2).



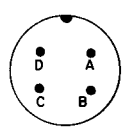




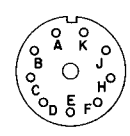




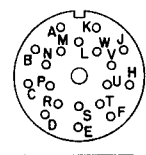
AUDIO
J603



24 VOLTS DC
J605



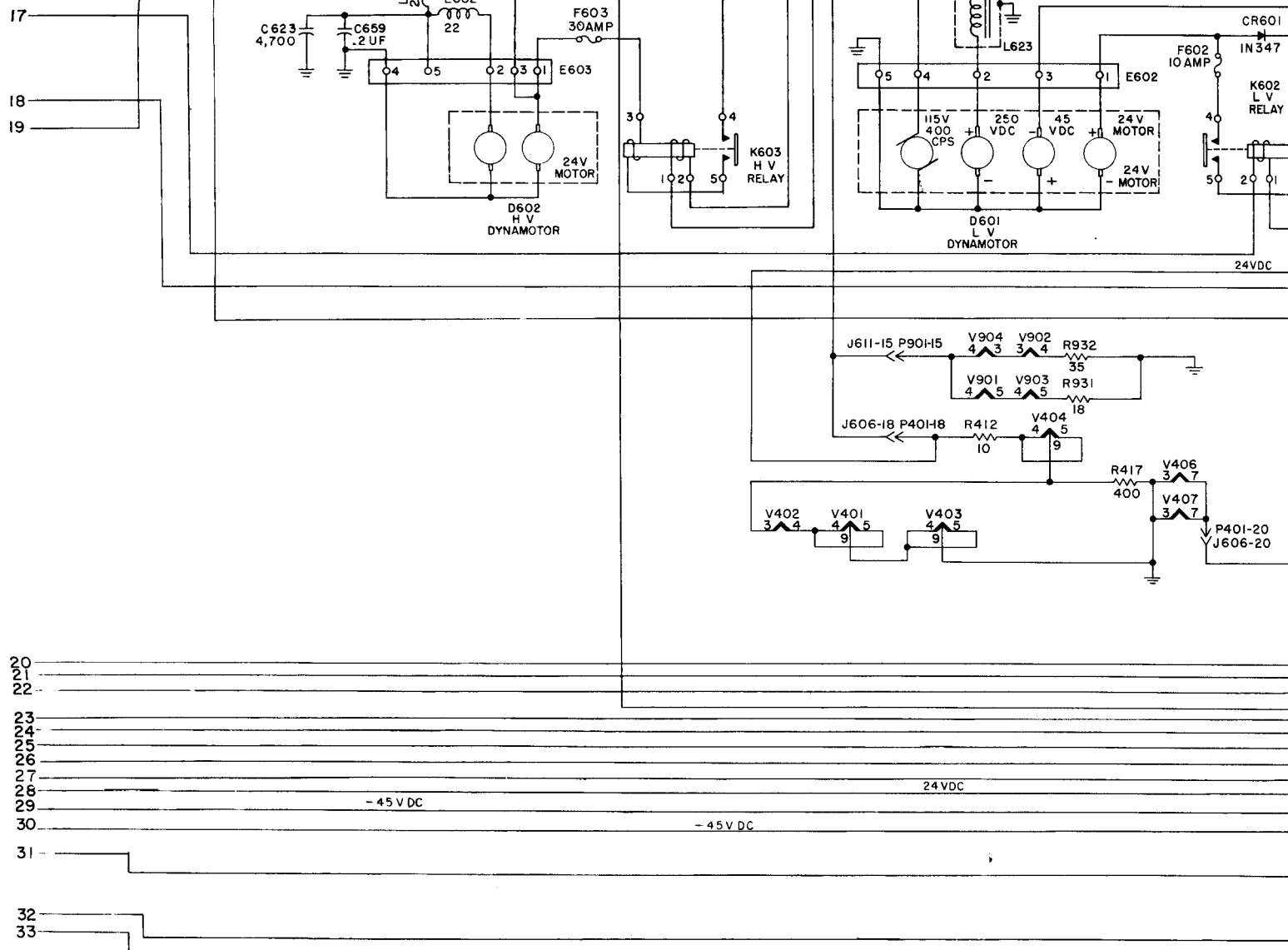
RECEIVER CONT
J604



REMOTE CONT
J601

THE FOLLOWING LEGEND IDENTIFIES RECEPTACLE CONTACTS.

RECEPTACLE	CONTACT	FUNCTION	RECEPTACLE	CONTACT	FUNCTION	
J601	K	TUNING INDICATOR	J603	A	600-OHM LINE	
	J	MICROPHONE		B	GROUND	
	H	L-V DYNAMOTOR START		C	MICROPHONE	
	F	KEY OR MICROPHONE SWITCH		E	GROUND	
	E	FSK RELAY CONTROL		F	KEY OR MICROPHONE SWITCH	
	D	SERVICE SELECTOR SW CONTROL +24V		H	GROUND	
	C	SERVICE SELECTOR SW CONTROL GND		K	CARRIER CONTROL	
	B	600-OHM LINE		J604	B	BREAK-IN CIRCUIT
	A	AUTOTUNE CONTROL			C	MICROPHONE
	W	AUTOTUNE CONTROL			D	+24V
	V	AUTOTUNE CONTROL			E	GROUND
	U	VOICE RELAY			F	KEY OR MICROPHONE
	T	AUTOTUNE CONTROL			H	600-OHM LINE
R	GROUND	K	CARRIER CONTROL			
S	FILAMENT START RELAY	J605	A	+24V		
			B	+24V		
			C	GROUND		
			D	GROUND		



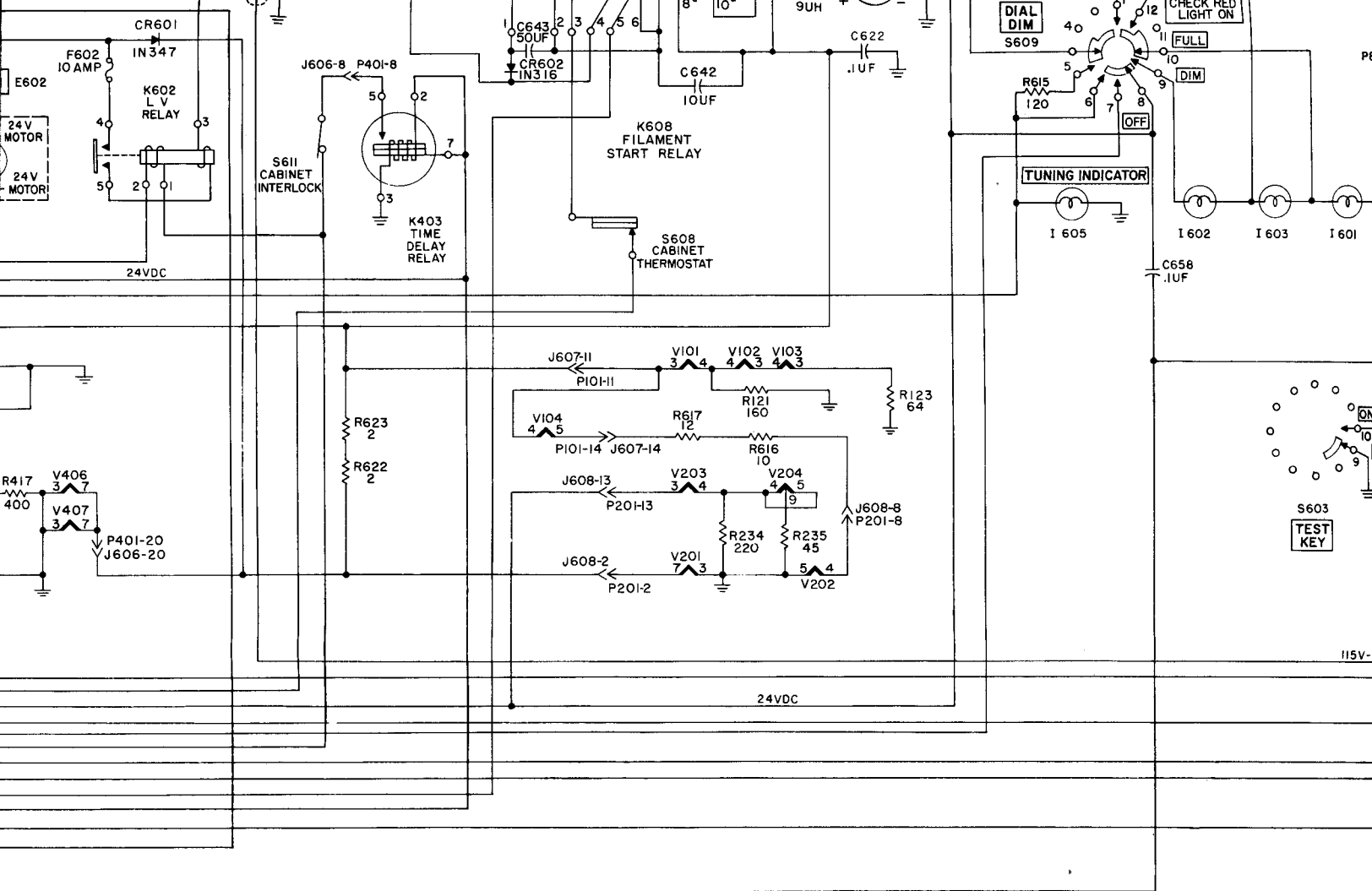
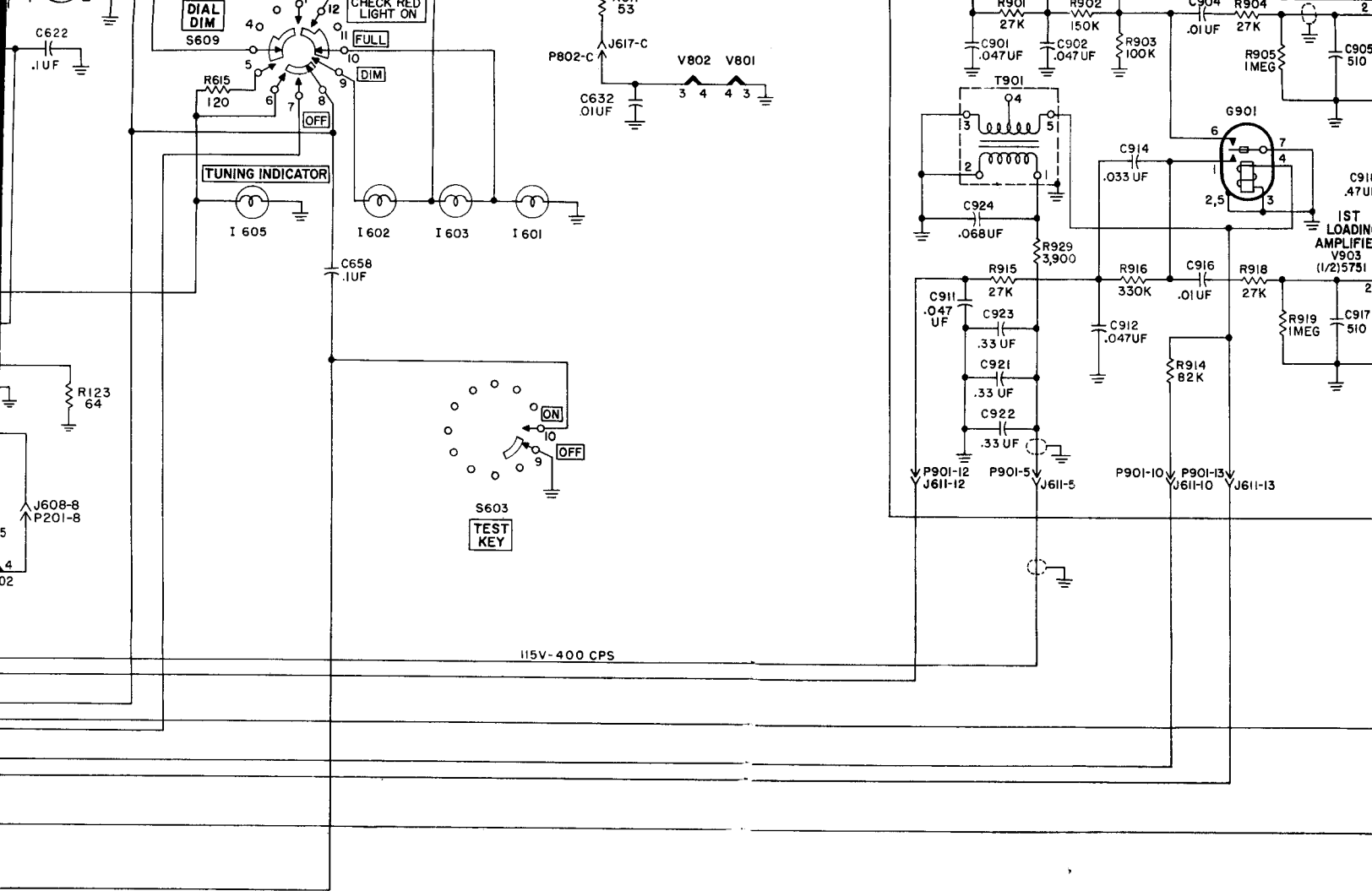
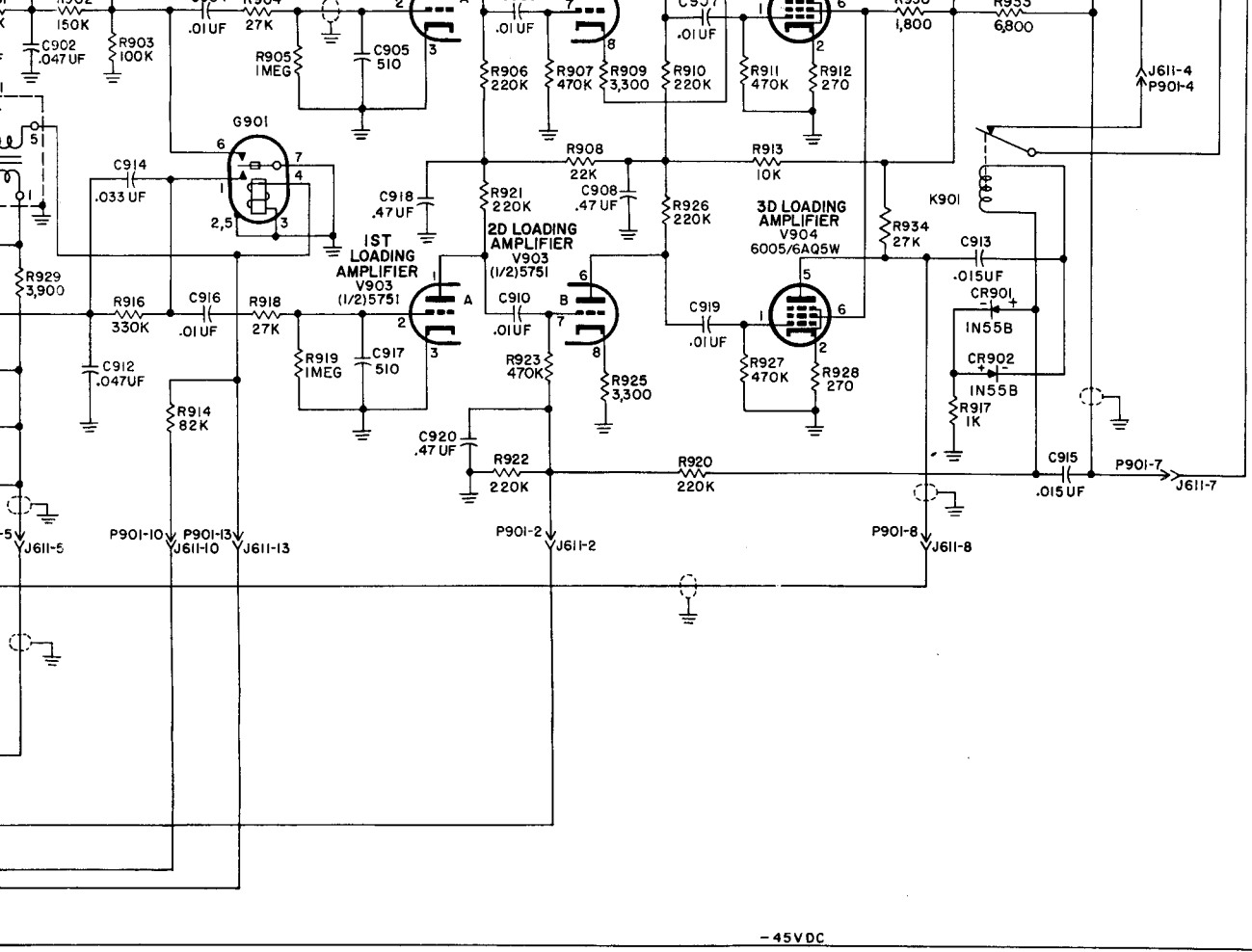


Figure 139. Radio Transmitter T-



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Figure 139. Radio Transmitter T-195/GRC-19, schematic diagram—Continued.



RECEPT
J601

- 45V DC

THE FOLLOWING LEGEND IDENTIFIES RECEPTACLE CONTACTS.

RECEPTACLE	CONTACT	FUNCTION	RECEPTACLE	CONTACT	FUNCTION	
J601	K	TUNING INDICATOR	J603	A	600-OHM LINE	
	J	MICROPHONE		B	GROUND	
	H	L-V DYNAMOTOR START		C	MICROPHONE	
	F	KEY OR MICROPHONE SWITCH		E	GROUND	
	E	FSK RELAY CONTROL		F	KEY OR MICROPHONE SWITCH	
	D	SERVICE SELECTOR SW CONTROL +24V		H	GROUND	
	C	SERVICE SELECTOR SW CONTROL GND		K	CARRIER CONTROL	
	B	600-OHM LINE		J604	B	BREAK-IN CIRCUIT
	A	AUTOTUNE CONTROL			C	MICROPHONE
	W	AUTOTUNE CONTROL	D		+24V	
	V	AUTOTUNE CONTROL	E		GROUND	
	U	VOICE RELAY	F	KEY OR MICROPHONE		
	T	AUTOTUNE CONTROL	H	600-OHM LINE		
R	GROUND	K	CARRIER CONTROL			
S	FILAMENT START RELAY	J605	A	+24V		
			B	+24V		
			C	GROUND		
			D	GROUND		

NOTES:

1. UNLESS OTHERWISE SHOWN:
RESISTORS ARE IN OHMS,
CAPACITORS ARE IN UUF.

2. S602 FRONT AND REAR SECTIONS ARE
SEPARATED FOR SCHEMATIC PURPOSES.

3. ALL SWITCHES ARE VIEWED FROM THE
REAR OF THE EQUIPMENT. SECTIONS
DESIGNATED A ARE CLOSEST TO THE
FRONT PANEL.

4. ALL SWITCHES ARE SHOWN IN THEIR
OFF OR COUNTERCLOCKWISE POSITION,
AS VIEWED FROM THE FRONT PANEL,
OR POSITIONED FOR 1.5 TO 1.7 MC
RANGE

5. ALL SWITCHES AND RELAYS ARE
SHOWN IN THEIR NORMAL POSITION
WITH POWER REMOVED.

6. THE PHYSICAL LOCATION OF COMPONENTS
CAN BE DETERMINED FROM THE FOLLOWING
SYMBOL GROUPS:

SUBCHASSIS	GROUP
EXCITER	100
POWER AMPLIFIER	200
DISCRIMINATOR	300
MODULATOR	400
MAIN FRAME AND FRONT PANEL	600
MASTER OSCILLATOR	800
ANTENNA NETWORK SERVO AMPLIFIER	900
ANTENNA TUNING CAPACITOR	1000
VARIABLE INDUCTOR	1100

TM806-108(2)

390412 O - 56 (In pocket) No. 24