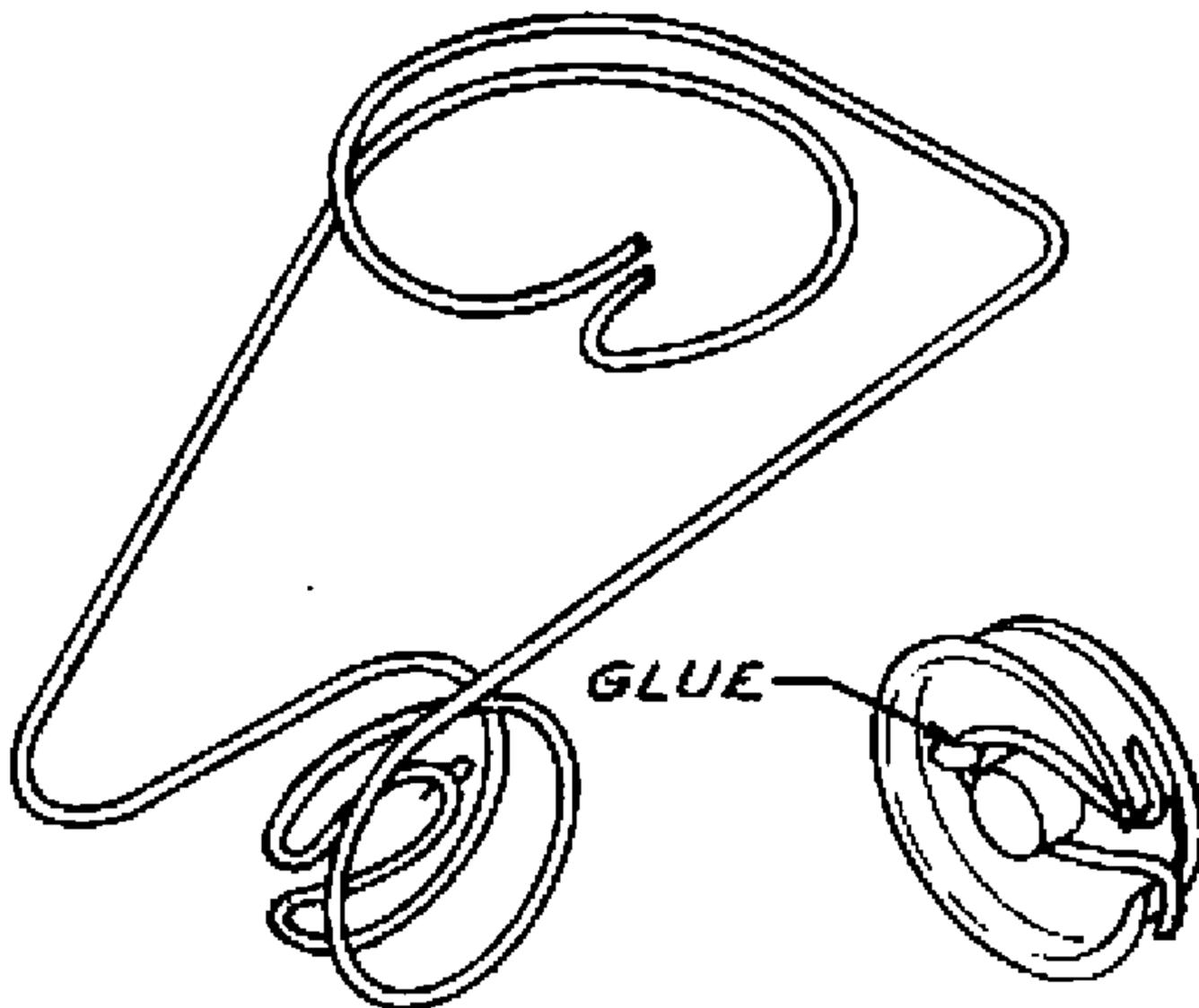
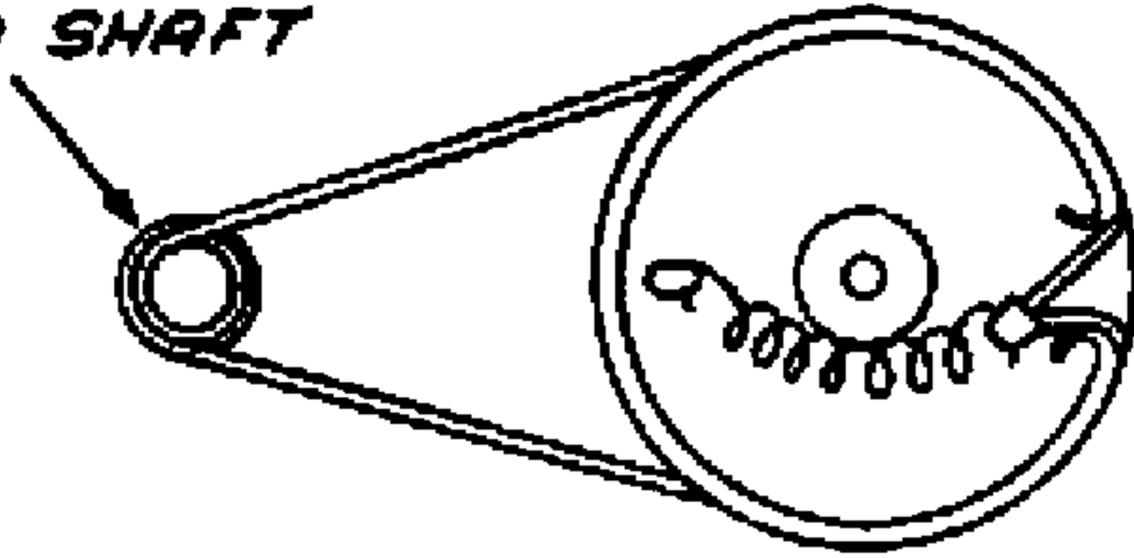


*ROUTING WHEN MHZ INDICATOR READS 13.*



**Figure 5-5. MHz Select String Drive Routing**

**2 TIMES  
AROUND SHAFT**

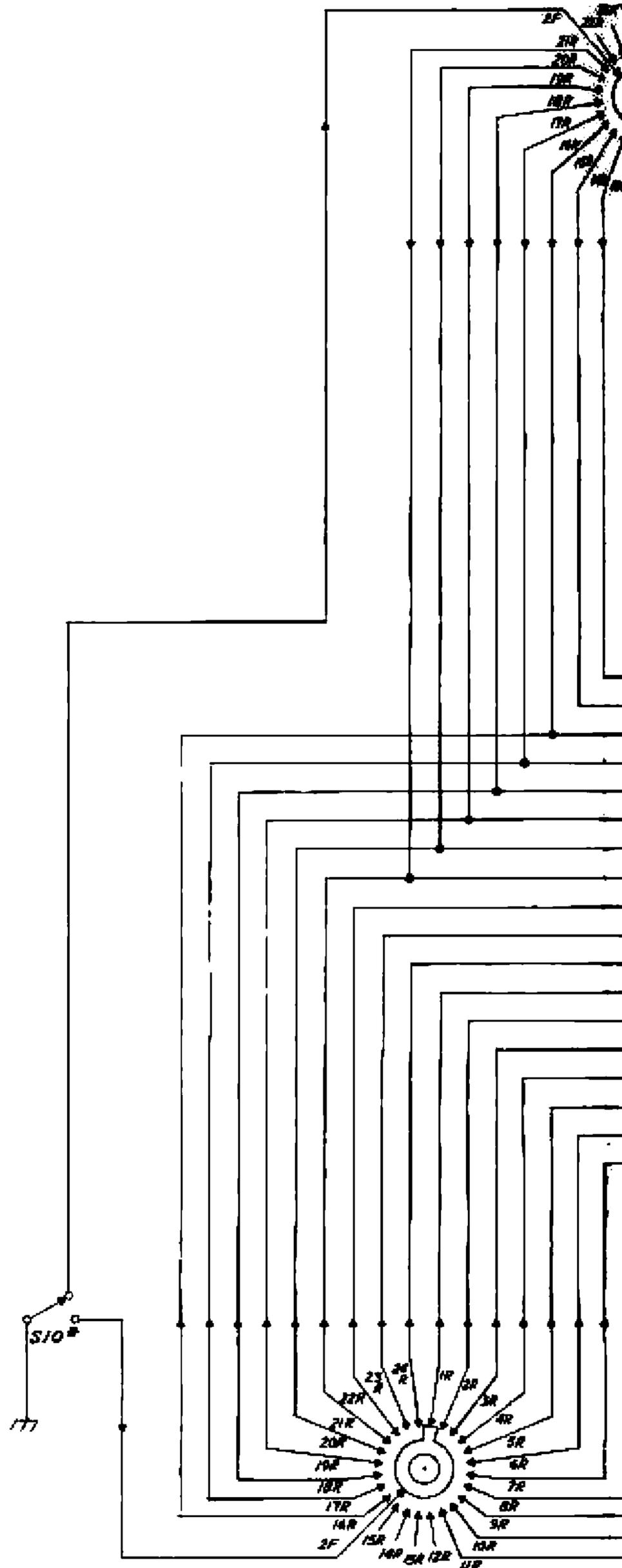


**STRING ROUTING WITH TUNING CAPACITOR  
50% MESHED**

**Figure 5-6. Preselector Tuning String Drive  
Routing**

S6A\*

P/O **MHE SELECT SWITCH**



S6B\*

P/O **MHE SELECT SWITCH**

S10\*

177

\* **MHz SELECT SWITCH (S6)** OPERATES IN CONJUNCTION WITH **MHz INDICATOR**, WHICH INCORPORATES MICROSWITCHES S7 AND S10. 24-POSITION **MHz SELECT SWITCH (S6)** HAS 35 SETTINGS, AS DISPLAYED BY **MHz INDICATOR**. (EACH OF FIRST 11 POSITIONS IS USED TWICE.) SWITCHES S7 AND S10 ARE GANGED. FOR .016-.031 THROUGH 9 MHz SETTINGS OF **MHz SELECT SWITCH (S6)**, BOTH S7 AND S10 ARE IN POSITIONS SHOWN; FOR 10 THROUGH 15 MHz SETTINGS OF **MHz SELECT SWITCH (S6)**, BOTH S7 AND S10 MAY BE EITHER IN POSITIONS SHOWN OR IN OPPOSITE POSITIONS; FOR 16 THROUGH 29 MHz SETTINGS OF **MHz SELECT SWITCH (S6)**, BOTH S7 AND S10 ARE IN POSITIONS OPPOSITE TO THOSE SHOWN.

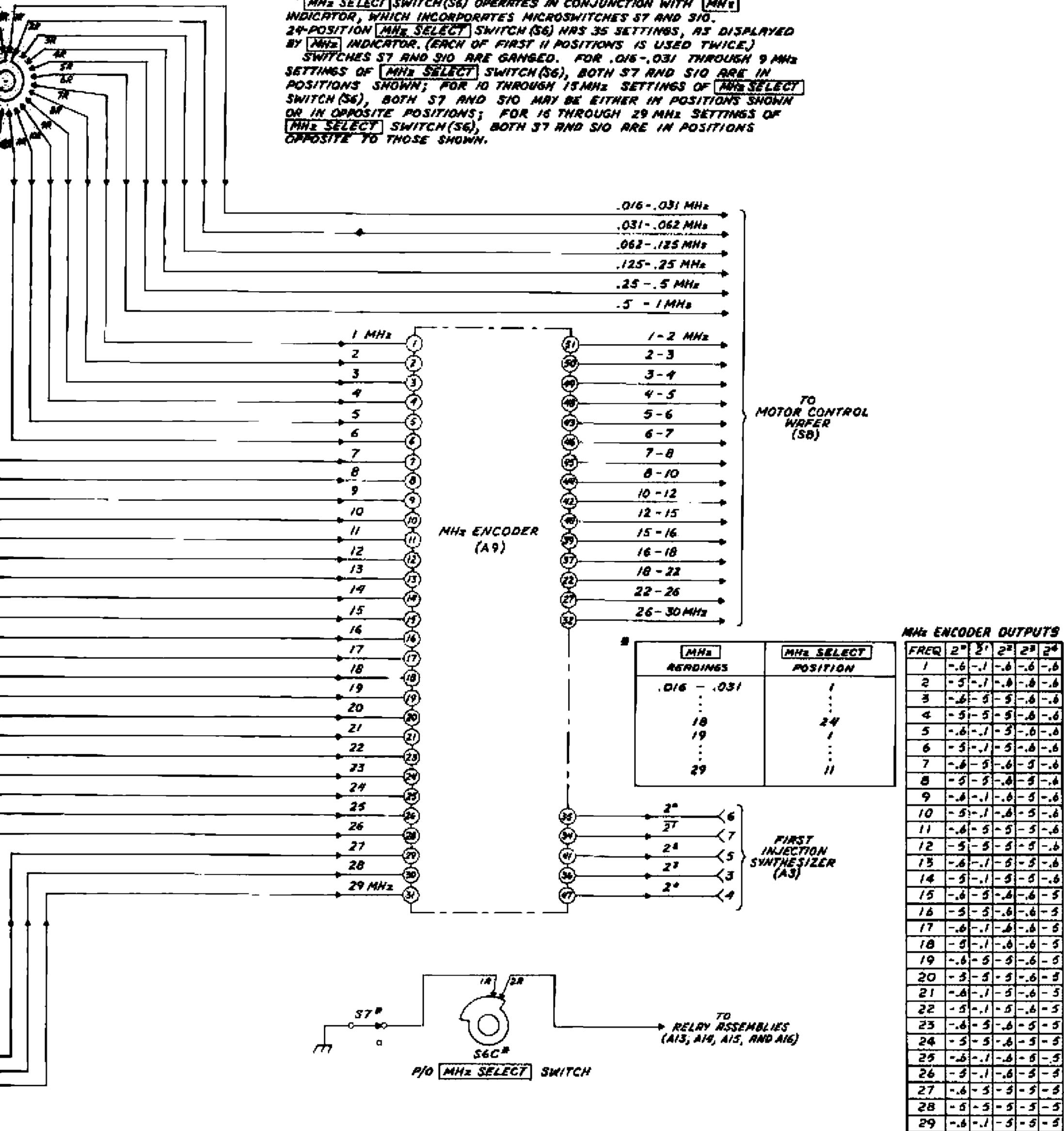


Figure 5-7. HRO-600 Main Frame Assembly, Servicing Block Diagram (Sheet 2 of 4)

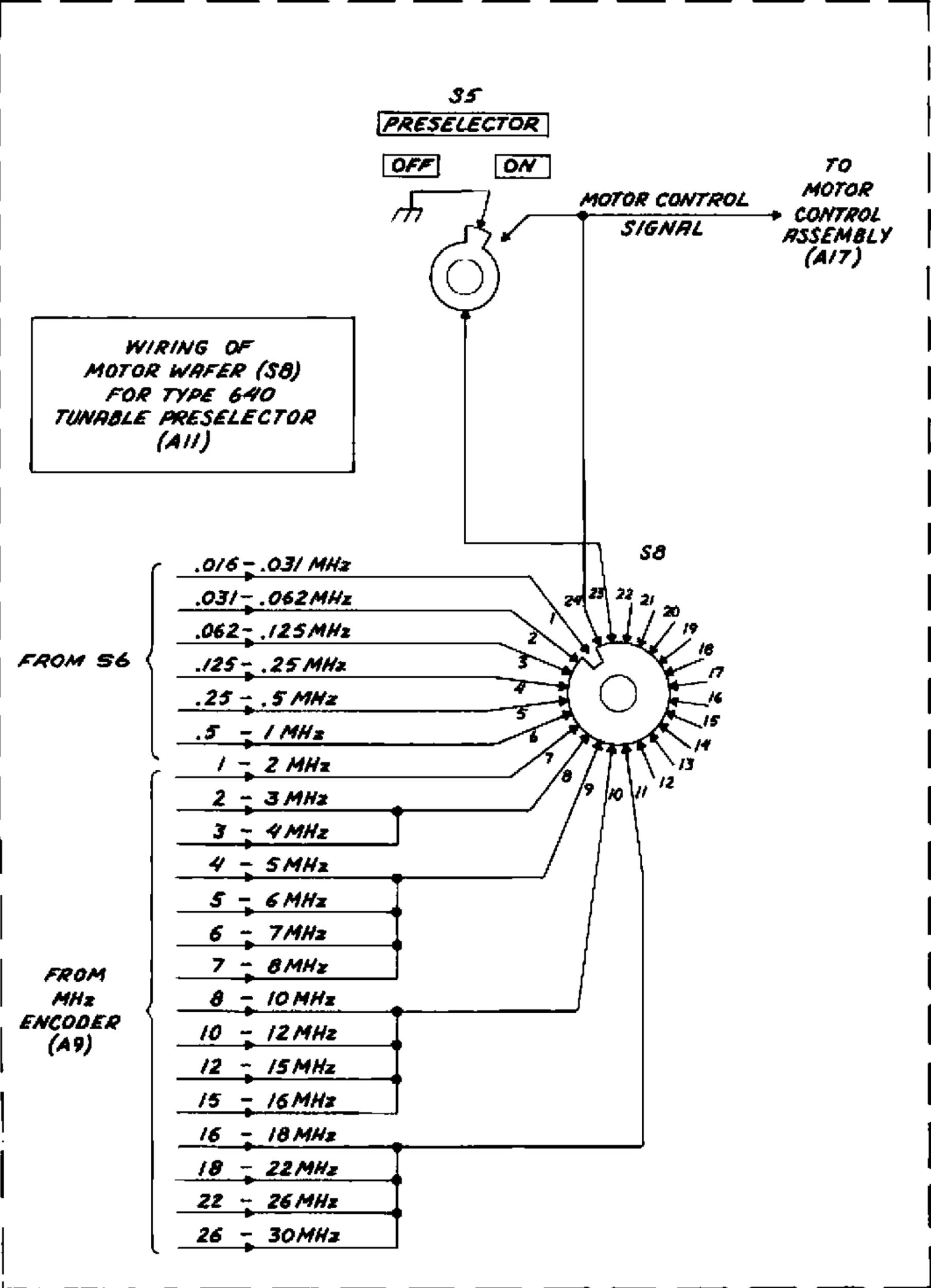


Figure 5-7. HRO-600 Main Frame Assembly, Servicing Block Diagram (Sheet 3 of 4)



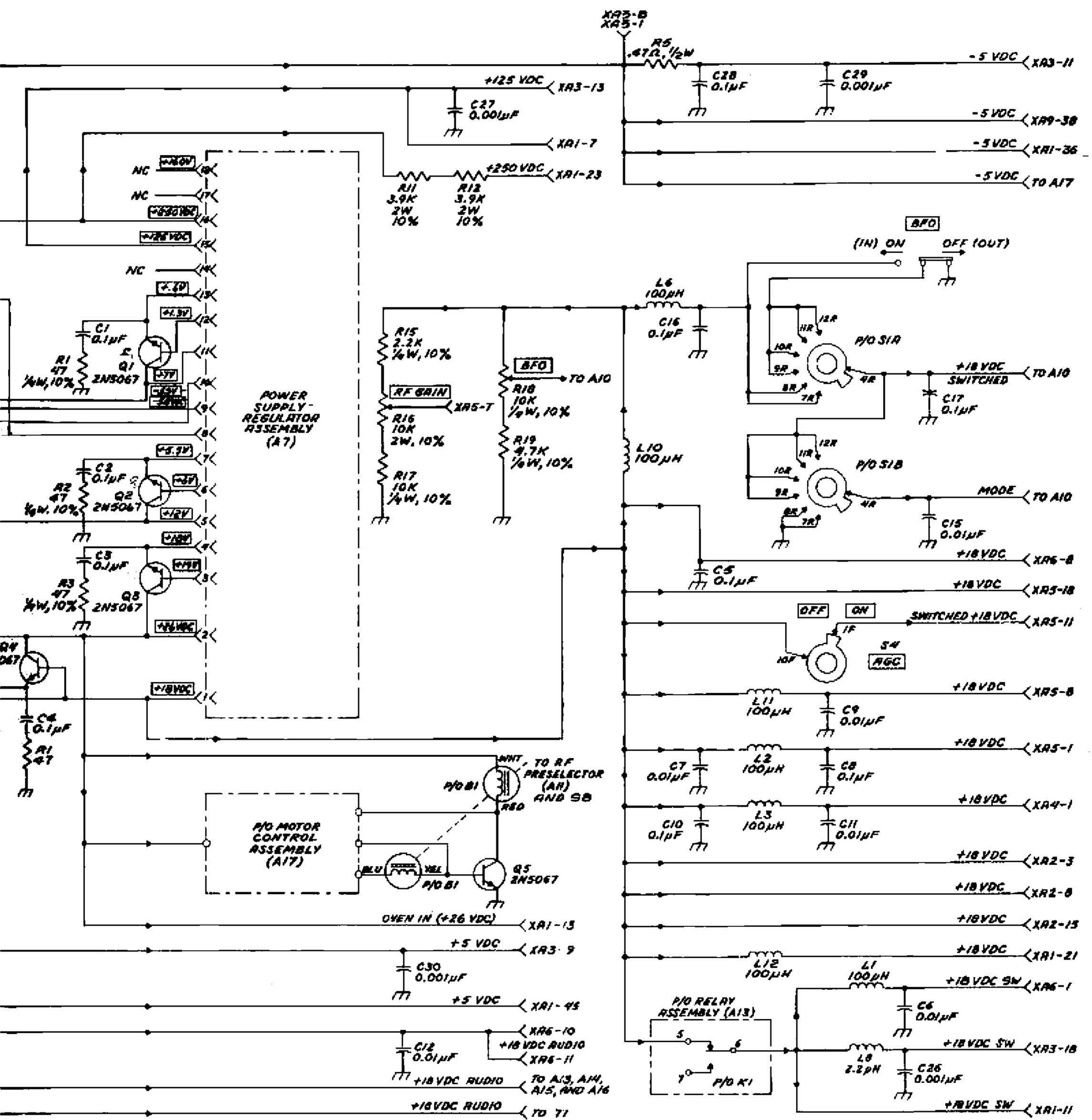


Figure 5-7. HRO-600 Main Frame Assembly, Servicing Block Diagram (Sheet 4 of 4)

## SECTION 6

### PARTS LIST

#### 6.1 INTRODUCTION

This parts list identifies all assemblies, subassemblies and chassis-mounted components of maintenance significance for the Main Frame Assembly of the National Radio Company, Inc., (NRCI) manufactured Radio Receiving Set HRO-600. The parts list for major accessories used with the HRO-600 are contained within supplementary technical manuals.

#### 6.2 PARTS LIST

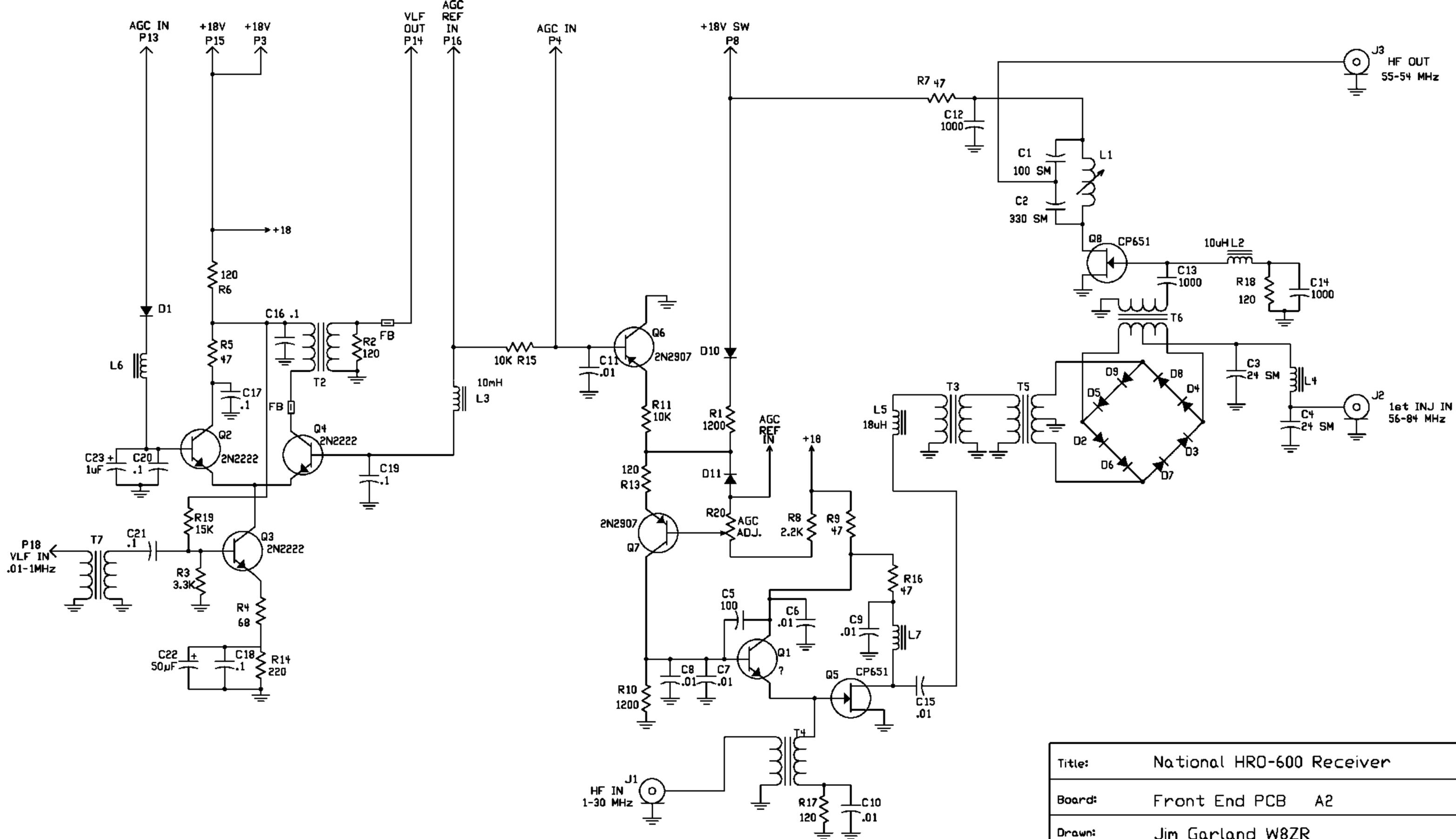
Ref. Des.	Name and Identification	Fig. No.
	Receiver Assy: NRCI dwg A48177G1	1-1
A1	Frequency Control Assy, VFO: NRCI dwg A48100G1	5-3
A2	Front End PC Board: NRCI dwg D48300G1	5-3
A3	MHz Synthesizer PC Board: NRCI dwg D48448G1	5-3
A4	2nd Mixer PC Board: NRCI dwg D48079G1	5-3
A5	2nd IF/AGC PC Board: NRCI dwg D48295G1	5-3
A6	2nd INJ/AF Amplifier PC Board: NRCI dwg D48078G1	5-3
A7	Power Supply & Filter Assy: NRCI dwg C48223G1	5-3
A7A1	PC Board: NRCI dwg D48298G1	5-1
A7A2	Component Board: NRCI dwg D48217G1	5-1
A11	Tunable Preselector PC Board: NRCI dwg E48360G1	5-3
	Chassis Assy: NRCI dwg A48451G1	
A8	Not Used (Optional Equipment)	
A9	MHz Encoder PC Board: NRCI dwg E48289G1	5-1
A10	BFO & Prod Det PC Board: NRCI dwg C48284G1	5-2

Ref. Des.	Name and Identification	Fig. No.
A12	Speaker Amplifier PC Board: NRCI dwg C48543G1	5-3
A13	Relay Assy: NRCI dwg A48429G1	5-2
A14	Relay Assy: NRCI dwg A48429G2	5-2
A15	Relay Assy: NRCI dwg A48429G3	5-2
A16	Relay Assy: NRCI dwg A48429G4	5-2
A17	Motor Control Assy: NRCI dwg B48495G1	5-2
A18	Diode Assy: NRCI dwg B48496G1	5-2
A19	Low Pass Filter Assy: NRCI dwg B48570G1	5-2
B1	Motor: NRCI dwg A48507-1	5-1
C1 thru 4	Capacitor: Erie type 5815-000Y5U0104Z	2-1*
C5, 8, 10, 14, 16, 17, 25, 28, 36, 37		5-2
C6, 7, 9, 11, 12, 13, 15	Capacitor: Erie type 805-000-X5V0103Z	5-2
43, 44, 47 thru 55,		2-1*
C18	Capacitor: Preselector tuner	5-1
C19, 20, 22	Capacitor: MIL type DM10C100J0500WV4CR	5-1
C21	Capacitor: Erie type 538002A	5-1
C23, 24	Not Used	
C26, 27, 29 thru 35	Capacitor: Erie type 801-000-X5F0102K	5-2
C38 thru 40	Not Used	
C41, 42, 45, 46	Capacitor: Erie type 811-000-Z54-103M	2-1*
CR1, 2	Not Used	
CR3, 4	Semiconductor: MIL type 1N3064	5-2
DS1, 2	Lamp: Type 509	2-1
DS3, 4	Lamp: NRCI dwg A48241	5-1
F1, 2	Fuse: Littlefuse type 3AG	2-1
FL1	Filter: NRCI dwg A48506-6	5-1
FL2	Filter: NRCI dwg A48506-5	5-1
FL3	Filter: NRCI dwg A48506-4	5-1
FL4	Filter: NRCI dwg A48506-3	5-1
FL5	Filter: NRCI dwg A48506-2	5-1
FL6	Filter: NRCI dwg C48434G1	5-2
FL7	Filter: NRCI dwg C48461G1	5-2
FL8	Filter: NRCI dwg C48434G2	5-2
FL9	Filter: NRCI dwg C48519G2	5-2
FL10	Filter: NRCI dwg C48540G1	5-1
J1 thru 4	Connector: NRCI dwg A51084	2-1
J5	Connector: NRCI dwg A51081	2-1

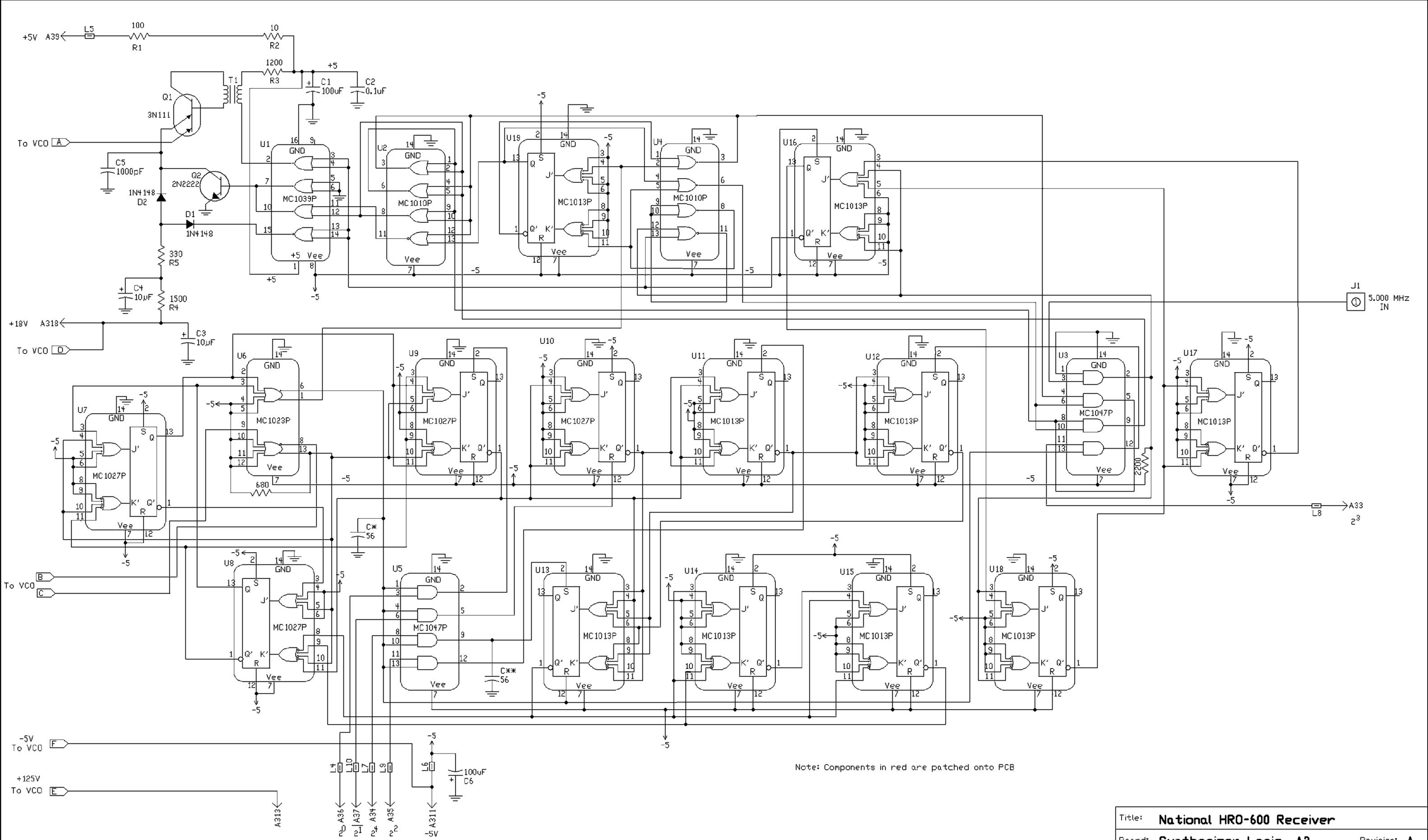
\* Located behind rear panel

Ref. Des	Name and Identification	Fig. No.
J6, 7	Not Used	
J8	Connector: NRCI dwg A51479-1	2-1
J9	Not Used	
J10	Connector: NRCI dwg A50793-3	3-1
L1 thru 7, 10, 11, 12	Choke: NRCI dwg R1550-37	5-2
L8	Choke: NRCI dwg R1550-17	5-2
L9	Choke: NRCI dwg C48304-33	5-2
LS1	Speaker: NRCI dwg A48166-1	5-1
M1	Meter: NRCI dwg A48487-1	3-1
Q1 thru 5	Transistor: MIL type 2N5067	5-1
R1 thru 4, R20	Resistor: MIL type RC07GF470K	2-1*
R5	Resistor: MIL type RC20GFR47K	5-2
R6, 8	Resistor: MIL type RC42GF680K	5-1
R7	Resistor: MIL type RC42GF271K	5-1
R9	Resistor: 10K Linear	3-1
R10	Resistor: MIL type RV6NAYS502A	3-1
R11, 12	Resistor: MIL type RC42GF392K	5-2
R13, 14	Not Used	
R15, 22	Resistor: MIL type RC07GF222K	5-1, 5-2
R16	Part of S4	3-1
R17	Resistor: MIL type RC07GF103K	5-2
R18	Resistor: NRCI dwg B52586-2	3-1
R19	Resistor: MIL type RC07GF472K	5-2
R21	Not Used	
R23	Resistor: 5K trimmer	5-3
S1	Switch: NRCI dwg A48453-1	3-1
S2, 3	Switch: NRCI dwg A48227-1	3-1
S4	Switch: NRCI dwg A48453-1	3-1
S5	Switch: NRCI dwg A48445-1	3-1
S6	Switch Assy: NRCI dwg B48463G1	5-2
S7, 10	Switch: type 12SM4	5-2
S8	Switch: NRCI dwg A48454-1	5-2
S9	Switch: NRCI dwg A48227-1	5-1
T1	Transformer: NRCI dwg A48231-1	5-2
T2	Transformer: Thordarson type TR1	5-2
T3	Transformer: NRCI dwg D48191-1	5-3
TB1, 2	Terminal Board: Alcom Metal type 4-3028	2-1
XA1	Connector: NRCI dwg A48233-2	5-2
XA2 thru 8	Connector: Amphenol type 225-21821-101	5-2
XA9, 10	Not Used	
XA11	Connector: Amphenol type 133-010-21	5-2
XDS1, 2	Lampholder: Leecraft type 10-13	2-1
XDS3, 4	Lampholder: NRCI dwg A48240-1	5-1
XF1, 2	Fuseholder: NRCI dwg A48224-1	2-1

\* Located behind rear panel



Title:	National HRO-600 Receiver
Board:	Front End PCB A2
Drawn:	Jim Garland W8ZR
Date:	May 9, 2005



Note: Components in red are patched onto PCB

Title:	<b>National HRO-600 Receiver</b>	
Board:	<b>Synthesizer Logic A3</b>	Revision: <b>A</b>
Author:	<b>Jim Garland W8ZR</b>	Size: <b>B</b>
Date:	<b>April 26, 2005</b>	Sheet <b>1</b> of <b>1</b>

