

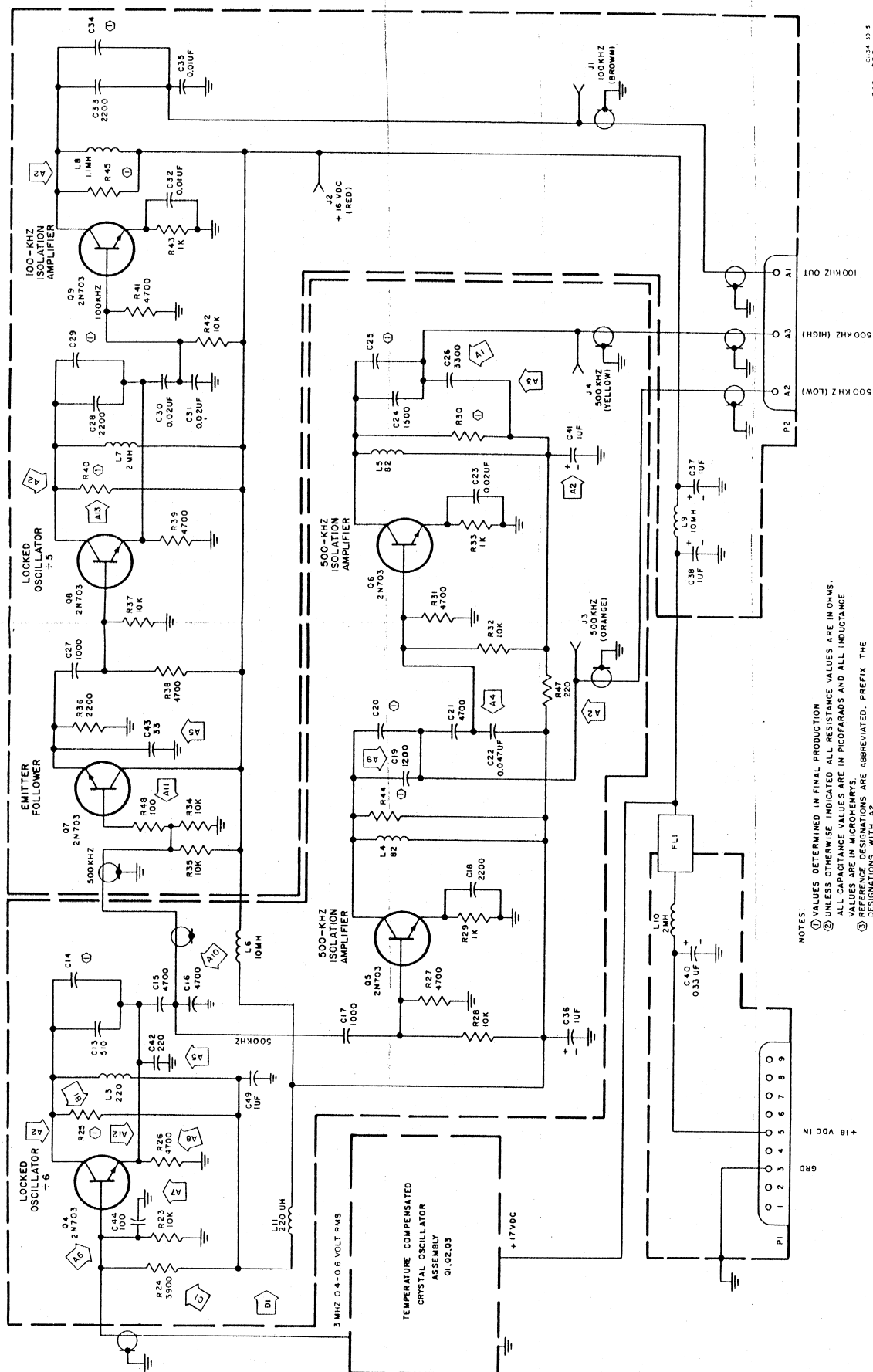


## Collins 618T-(x) HF SSB Airborne transceiver



### Schematic Diagrams

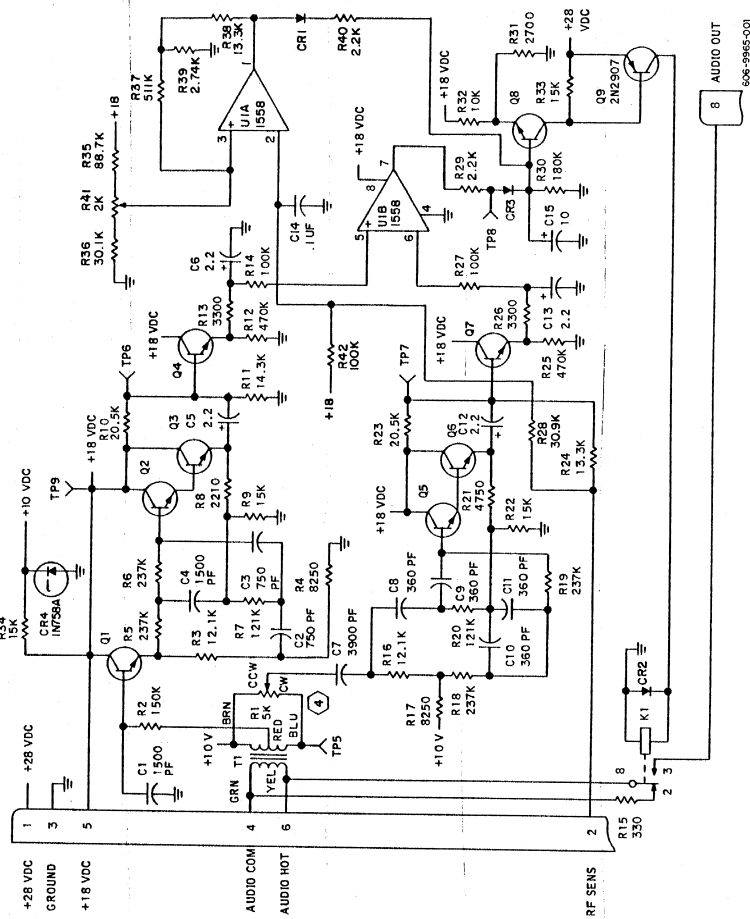
Courtesy AC5XP



RF Oscillator A2 (528-0251-005),  
Schematic Diagram  
Figure 811

23-10-0  
Pages 843/844  
Oct 1/78

NOTE:  
UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS  
DIODES ARE TYPE 1N3064 AND TRANSISTORS ARE TYPE 2N930.



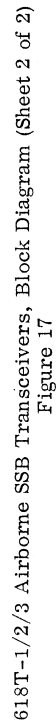
RF Oscillator (528-0690-002) Squelch Board (797-3684-002)  
With Production Incorporation of Positive Override  
Squelch, Schematic Diagram (Sheet 3 of 3) Pages 840G/840H  
Figure 810A



618T-1/2/3



Figure 23



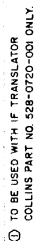
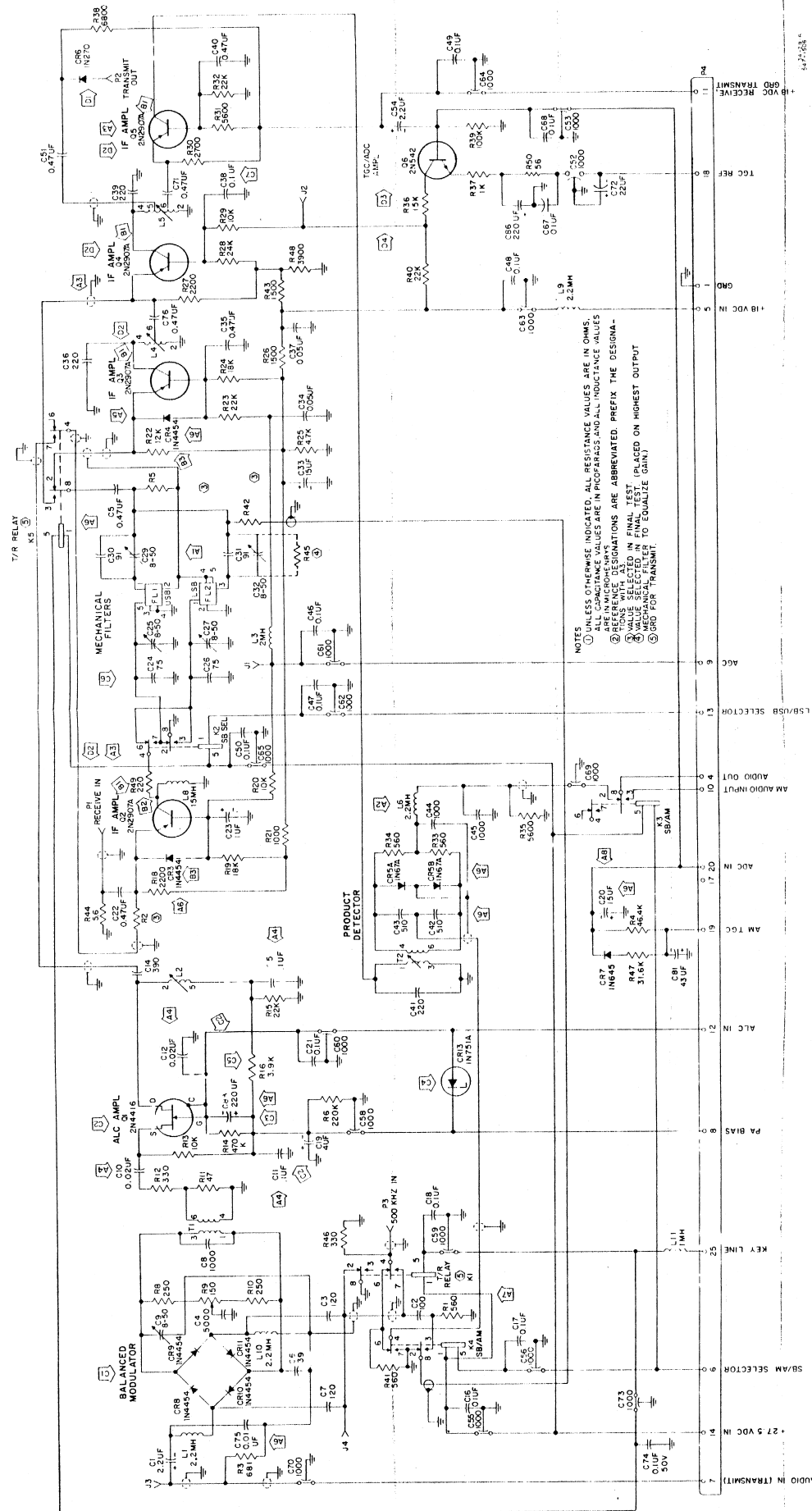
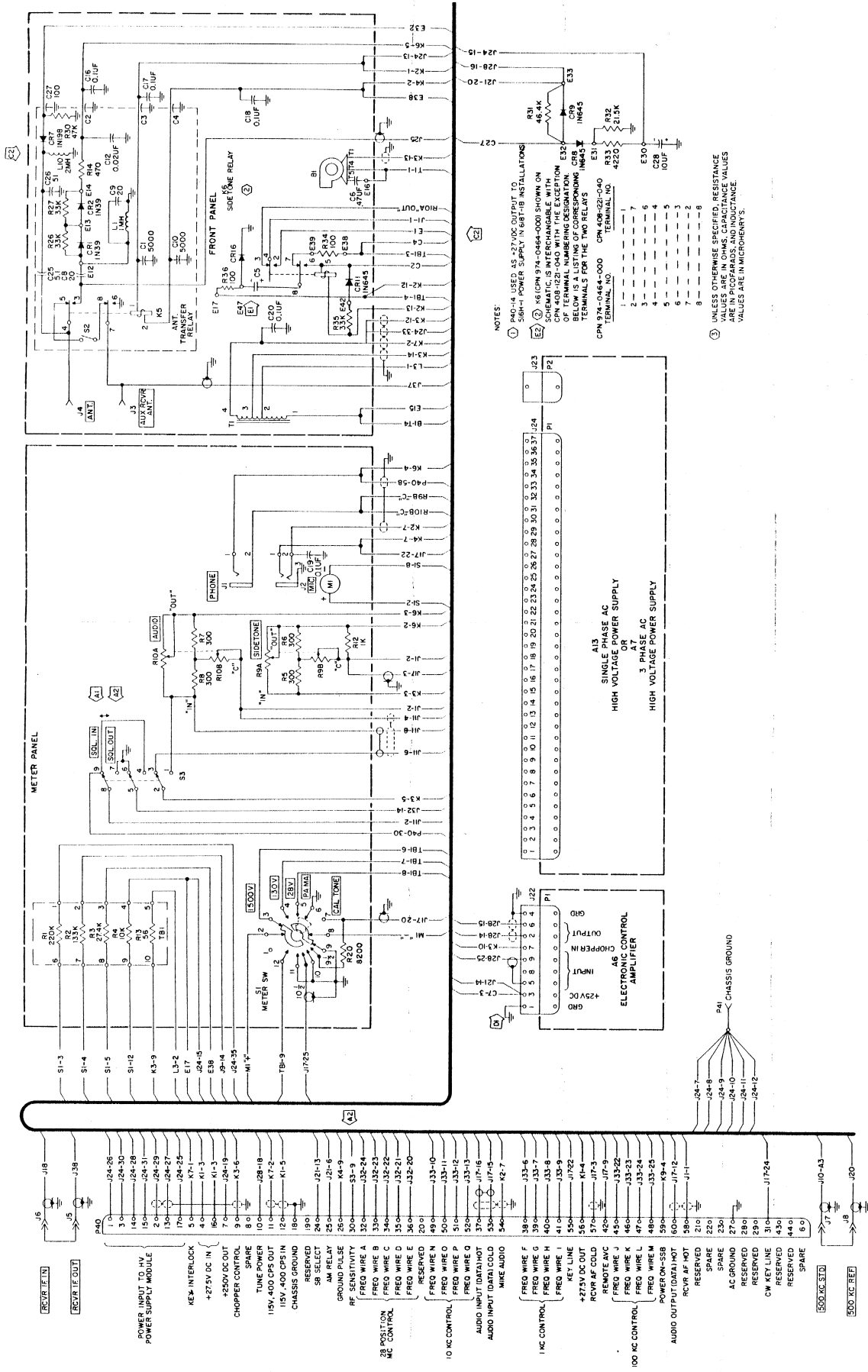


Figure 17 (Sheet 1 of 2)



IF Translator A3 (544-9286-001), Schematic Diagram  
Figure 813



618T-1/2/3 Chassis A, Schematic Diagram  
(Late Model)  
Figure 807 (Sheet 1 of 3)

618T- ( ) AIRBORNE SSB TRANSCEIVERS

OVERHAUL MANUAL (520-5970003)

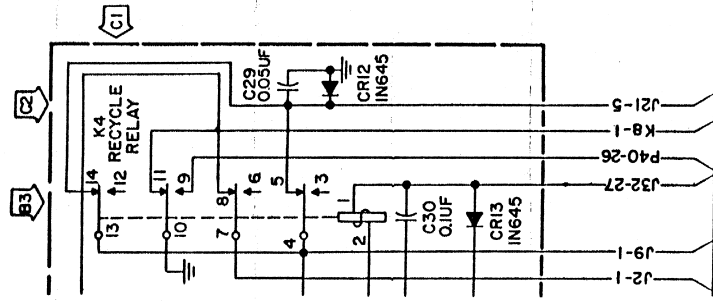
TEMPORARY REVISION NO 23-10-0-8

This TEMPORARY REVISION replaces TEMPORARY REVISION NO 23-10-0-7

Insert facing page 817/818, 23-10-0

Subject: 618T-1/2/3 Chassis A, Schematic Diagram (Late Model), Figure 807  
(Sheet 2).

Correct schematic wiring error of relay K4 pins 7 and 13 as follows:



520-5970003-F81113

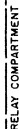
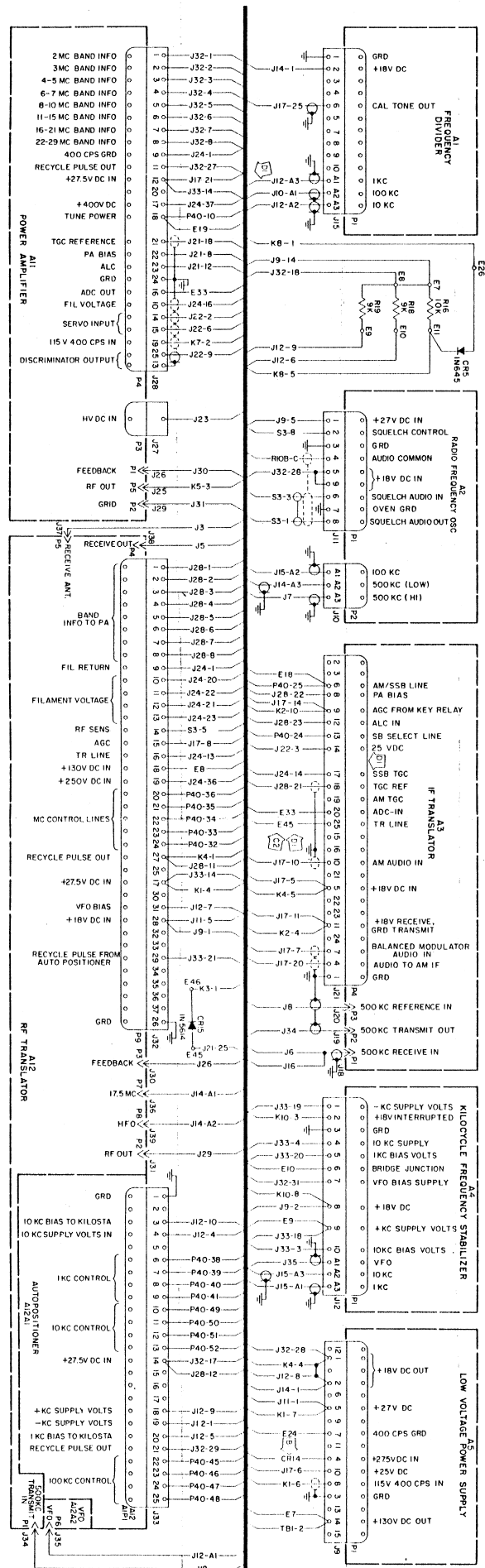
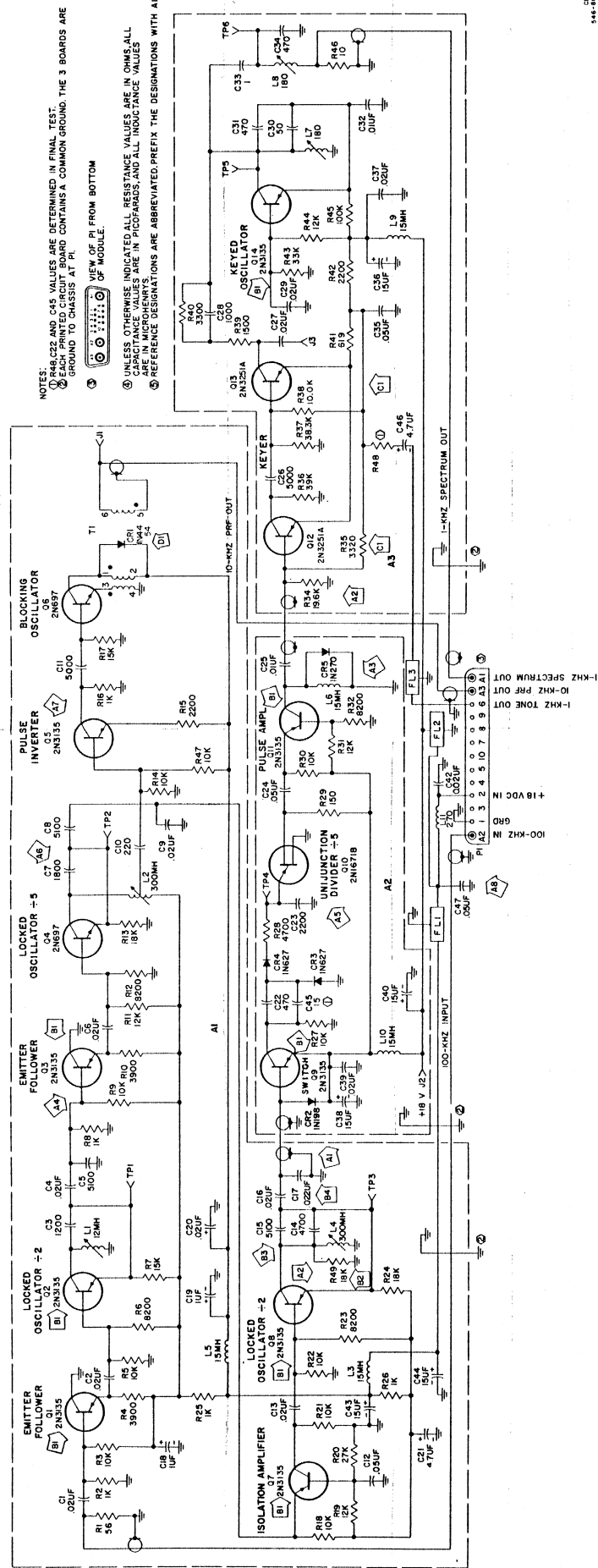


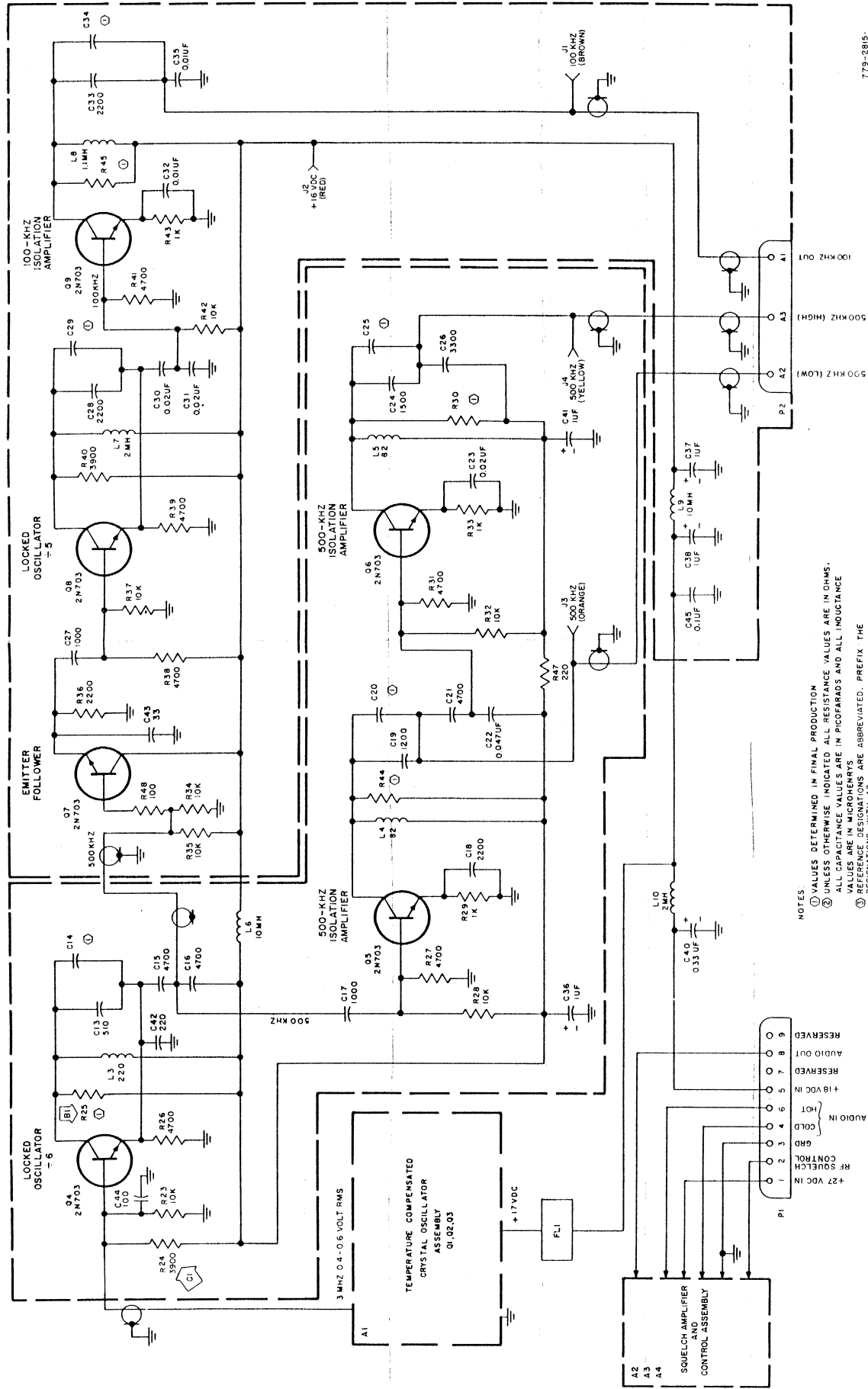
Figure 807 (Sheet 2)

6187-1/2/3 Chassis A, Schematic Diagram (Late Model)  
Figure 807 (Sheet 3)





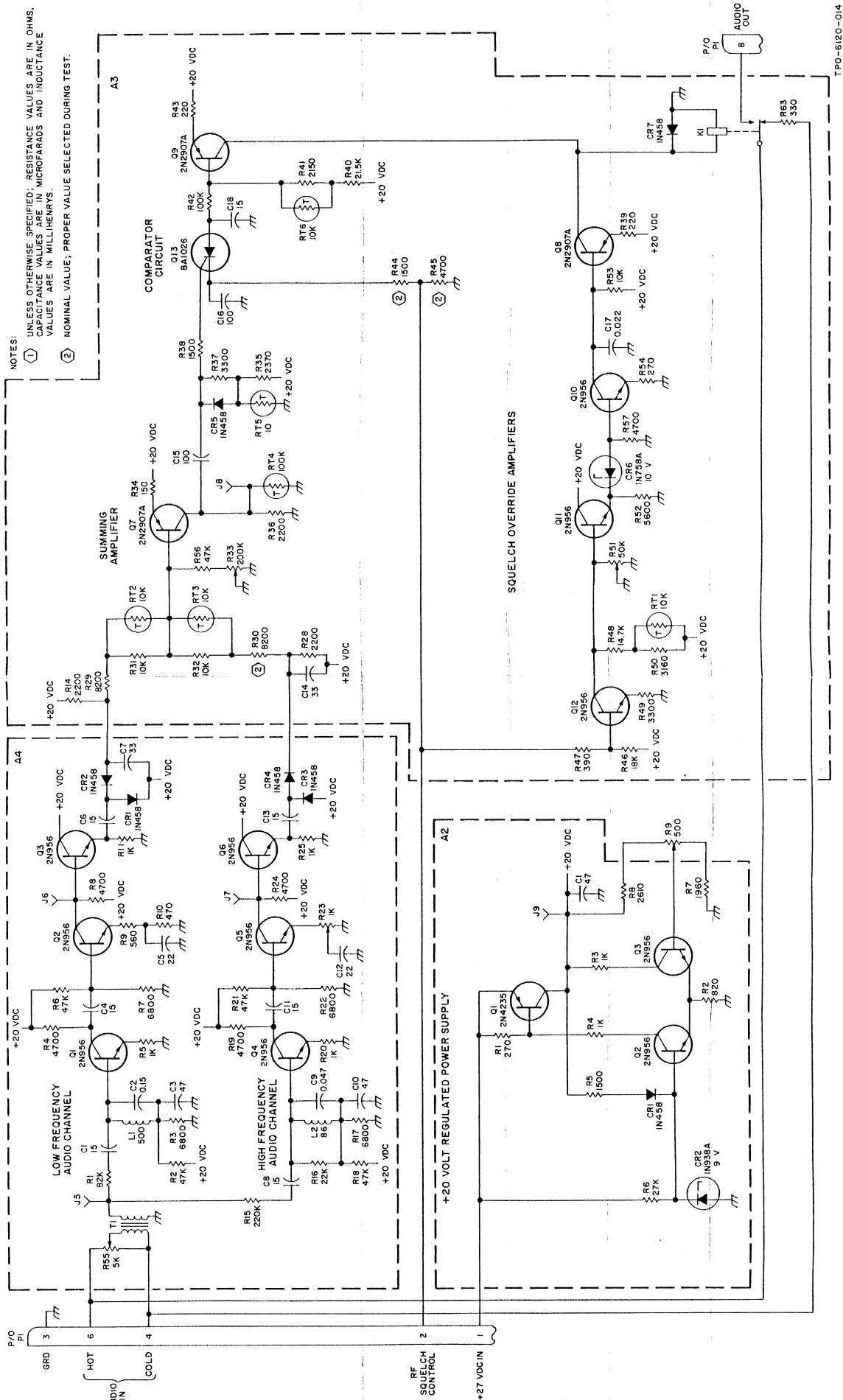
618T-1/2/3 Frequency Divider A1, Schematic Diagram  
Figure 809



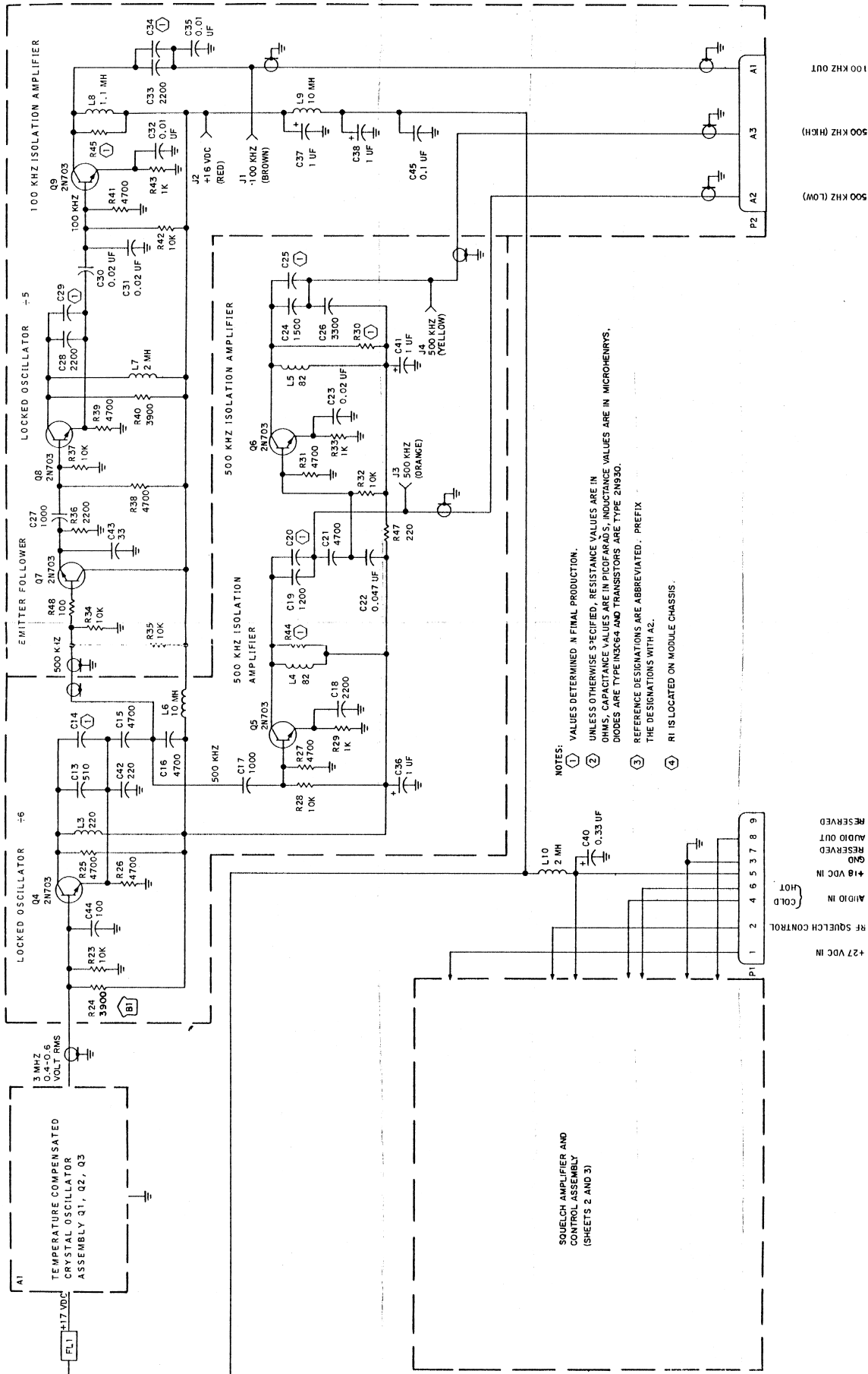
779-2815

RF Oscillator A2 (528-0690-001),  
Schematic Diagram  
Figure 810 (Sheet 1 of 2)

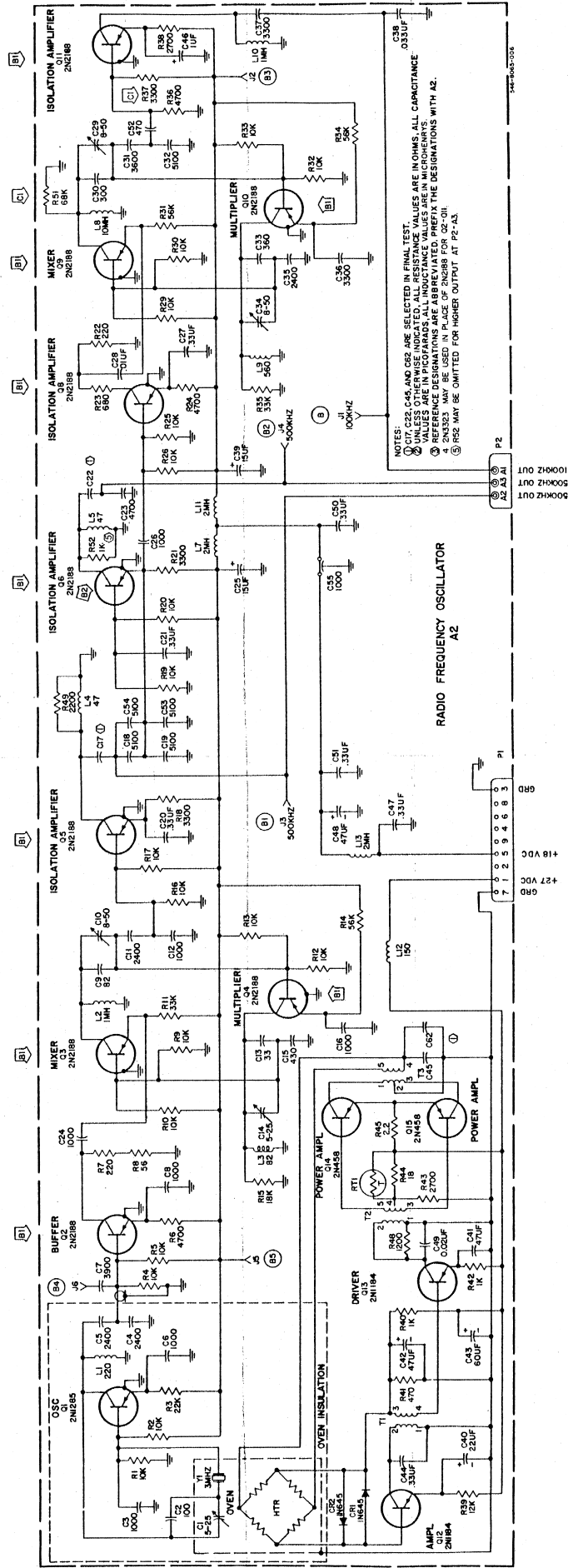
23-10-0  
Pages 837/838  
Oct 1/78



Feb 15/68 RF Oscillator A2 (528-0690-001), Schematic Diagram (Sheet 2 of 2) 23-10-0  
Figure 810 Pages 839/840

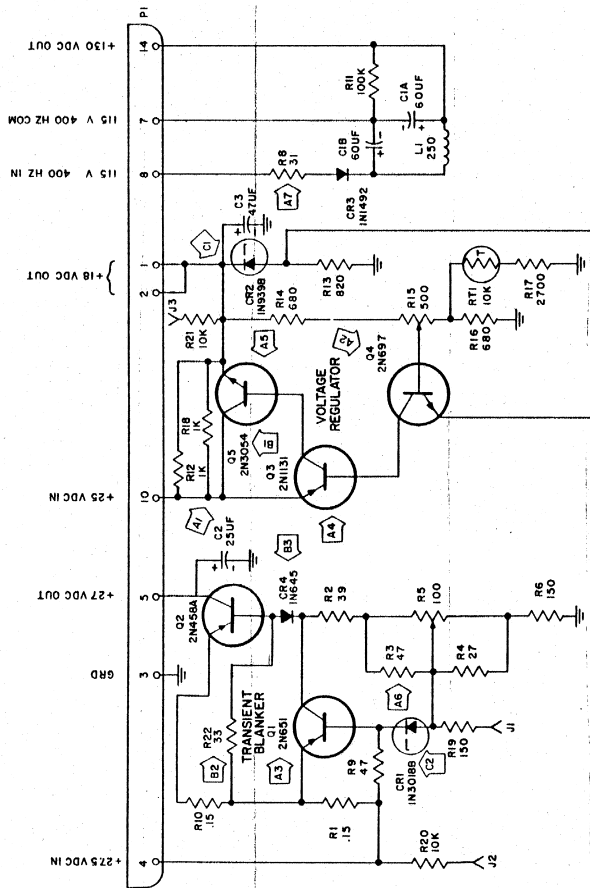


- NOTES:
- VALUES DETERMINED IN FINAL PRODUCTION.
  - UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN PICOFARADS, INDUCTANCE VALUES ARE IN MICROHENRYS, DIODES ARE TYPE IN364 AND TRANSISTORS ARE TYPE 2N930.
  - REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE DESIGNATIONS WITH A2.
  - RI IS LOCATED ON MODULE CHASSIS.





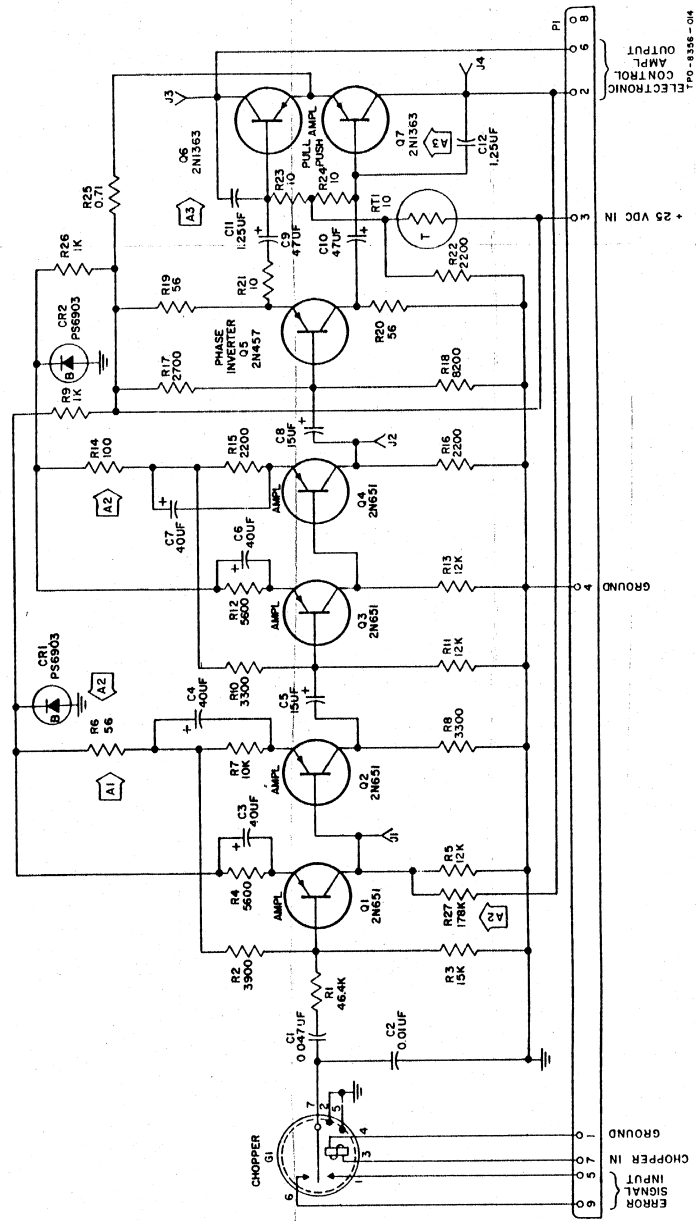
23-10-0  
Pages 857/858  
Oct 1/78



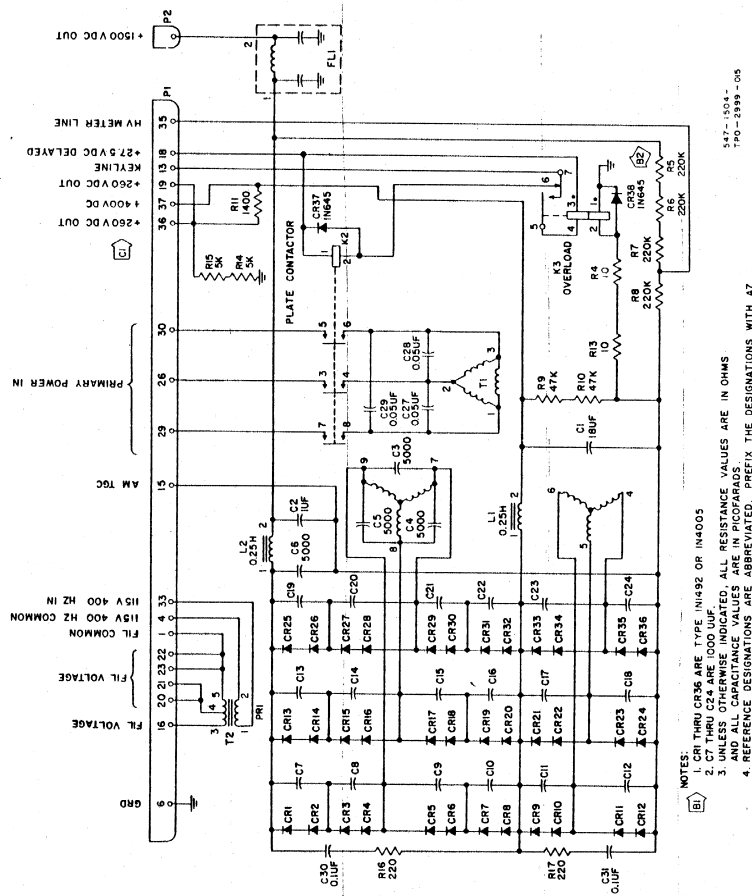
NOTE:  
① UNLESS OTHERWISE INDICATED, ALL RESISTANCE VALUES ARE IN OHMS. ALL CAPACITANCE VALUES ARE IN PICOFARADS AND ALL INDUCTANCE VALUES ARE IN MILLIHENRYS.  
② REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE DESIGNATIONS WITH A5.

547-1505-  
C1134-34-4

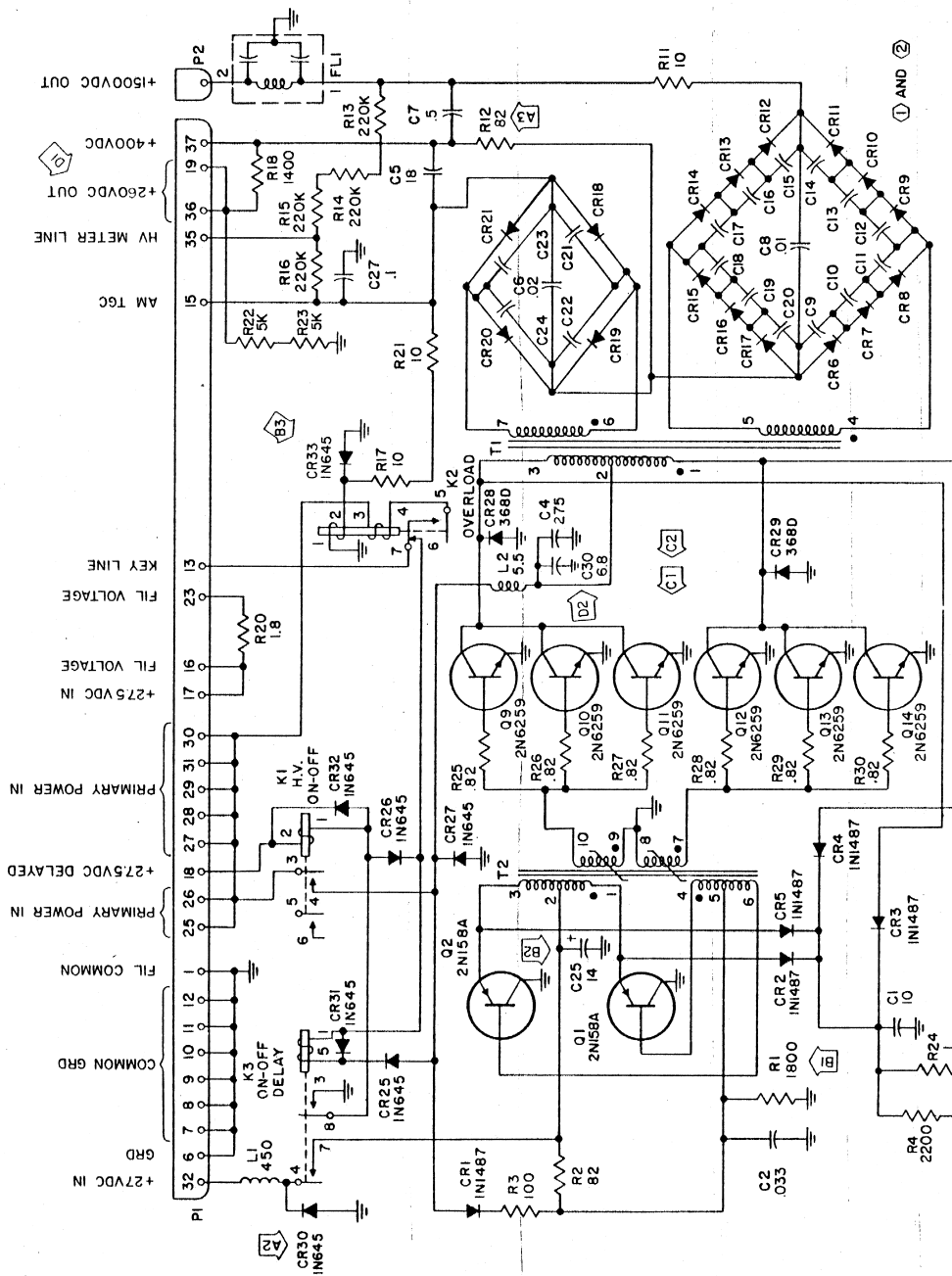
Low-Voltage Power Supply A5, Schematic Diagram  
Figure 816



Electronic Control Amplifier A6, Schematic Diagram  
Figure 817



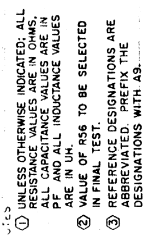
3-Phase High-Voltage Power Supply A7, Schematic  
Diagram (Late Model)  
Figure 818



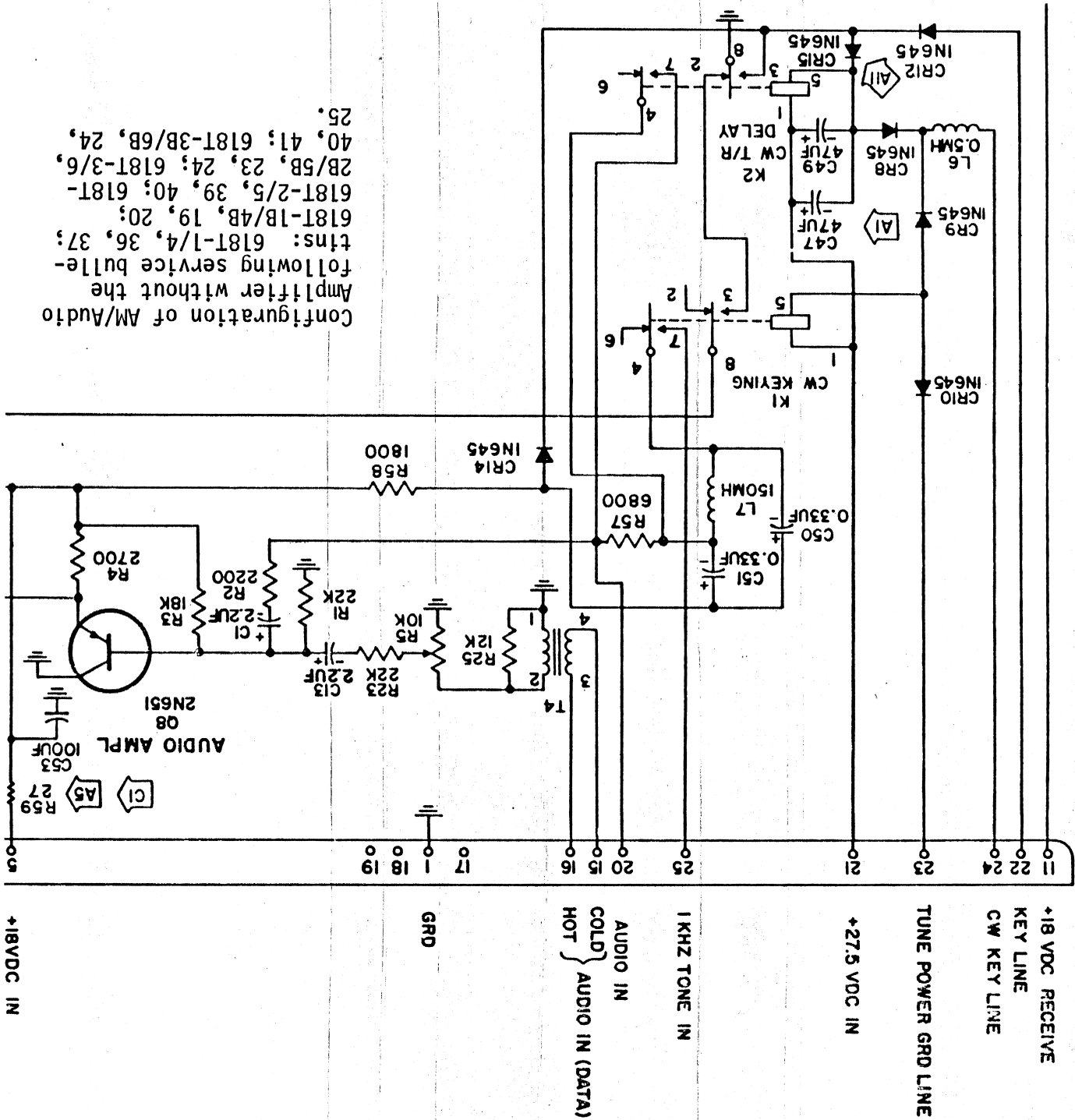
NOTES:  
 ① CR6 THRU CR21 ARE TYPE 1N1492 OR 1N4005.  
 ② C9 THRU C24 ARE 1000PF.

③ UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, AND INDUCTANCE VALUES ARE IN MICROHENRYS.

④ REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX ALL DESIGNATIONS WITH THE ASSEMBLY DESIGNATION AB.



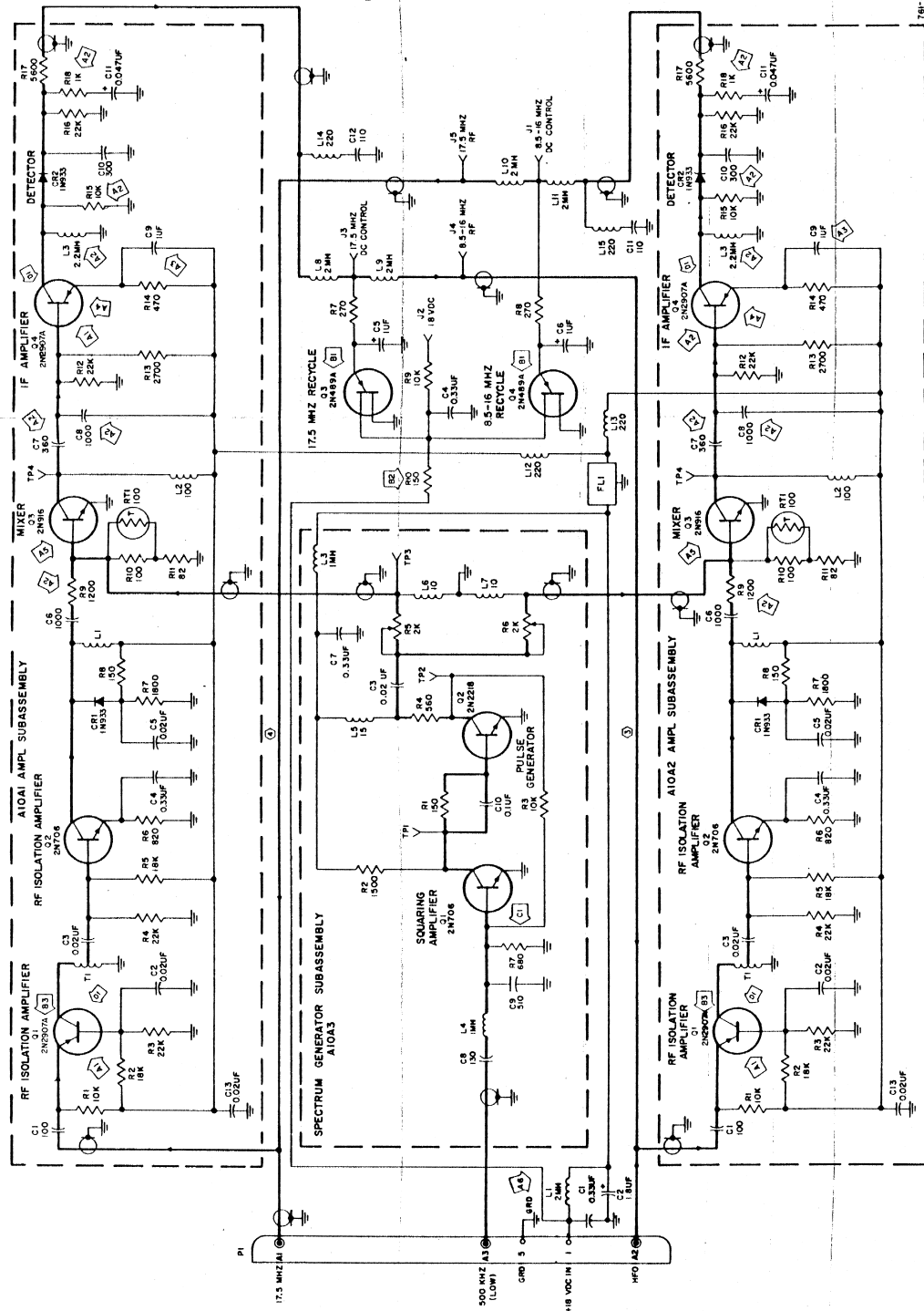
Oct 1/78



Configuration of AM/Audio  
Amplifier without the  
following service bulle-  
tins: 618T-1/4, 36, 37;  
618T-1B/4B, 19, 20;  
618T-2/5, 39, 40; 618T-  
2B/5B, 23, 24; 618T-3/6,  
40, 41; 618T-3B/6B, 24,  
25.

AM/Audio Amplifier A9, Schematic Diagram  
(Late Model) Sheet 2  
Figure 822

520-5970003-F91113

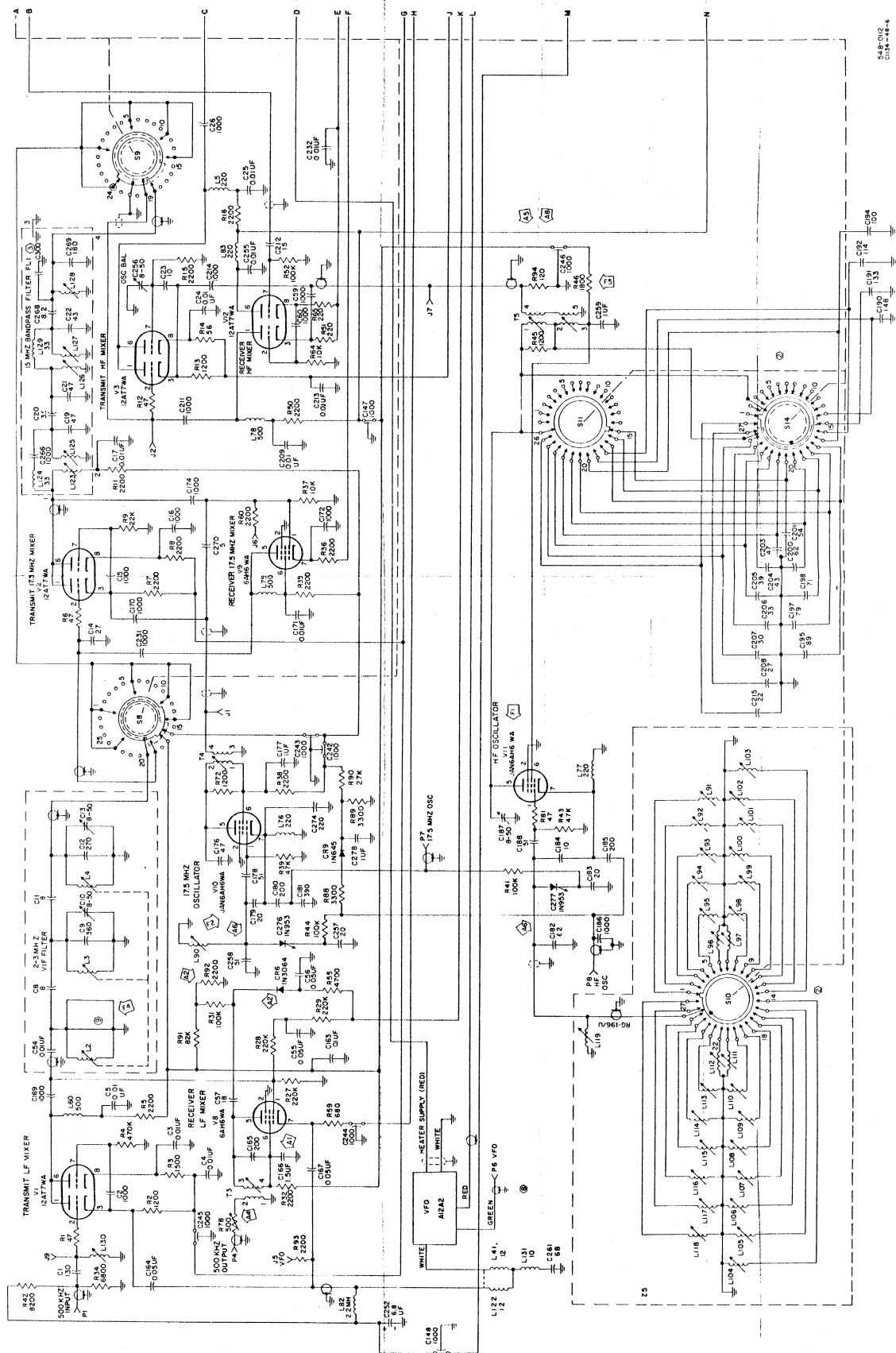


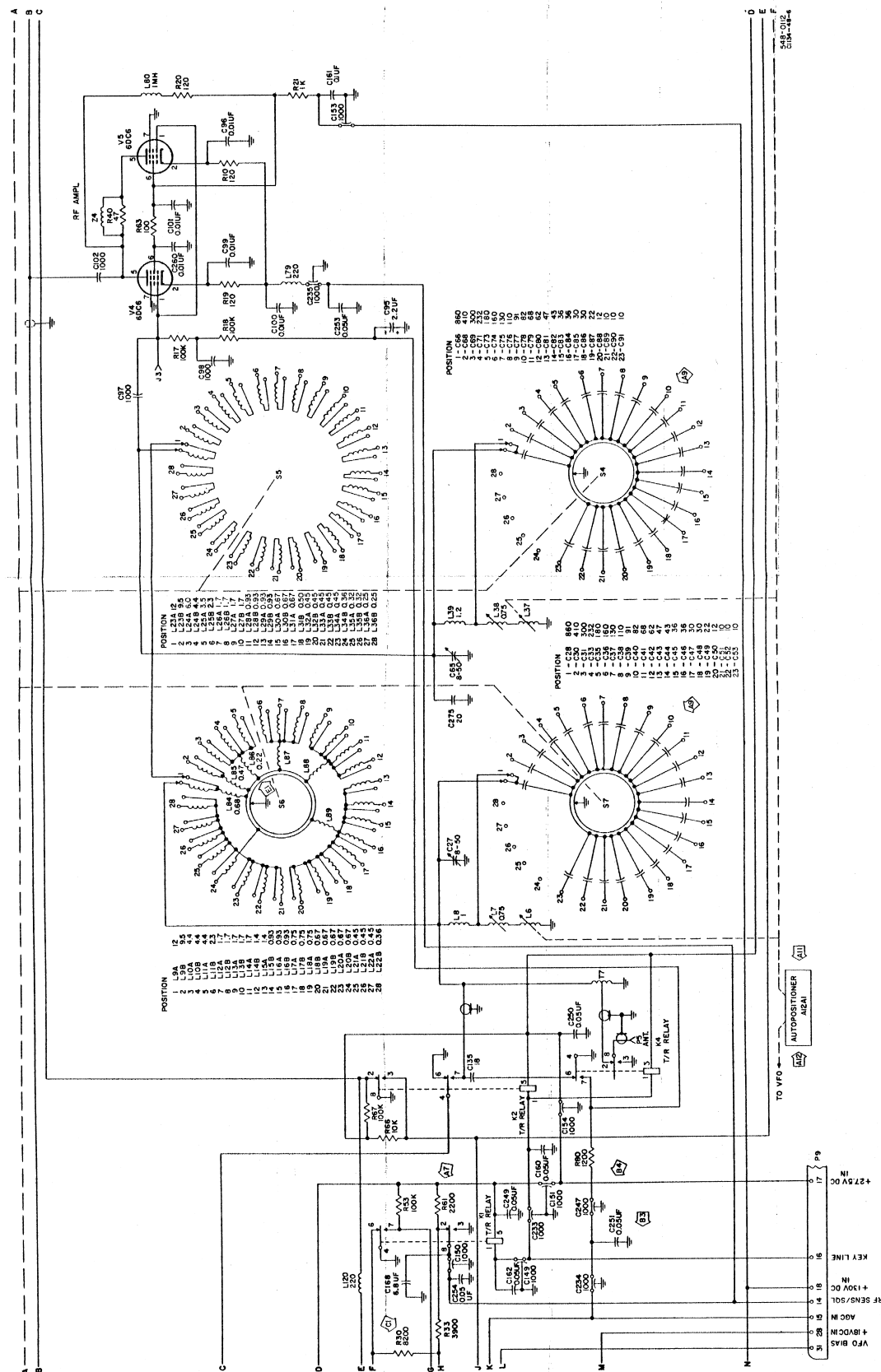
- NOTES:
- UNLESS OTHERWISE INDICATED, ALL RESISTANCE VALUES ARE IN OHMS, ALL CAPACITANCE VALUES ARE IN PICOFARADS, AND ALL INDUCTANCE VALUES ARE IN MICROHMS.
  - REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE DESIGNATIONS WITH THE UNIT SYMBOLS: R FOR RESISTOR, C FOR CAPACITOR, L FOR INDUCTOR, AND Q FOR TRANSISTOR.
  - 17.5 MHZ DC CONTROL IS RETURNED TO RF TRANSLATOR BY 8.5-16 MHZ RF LINE.
  - 8.5-16 MHZ DC CONTROL IS RETURNED TO RF TRANSLATOR BY 17.5 MHZ RF LINE.

781-4920



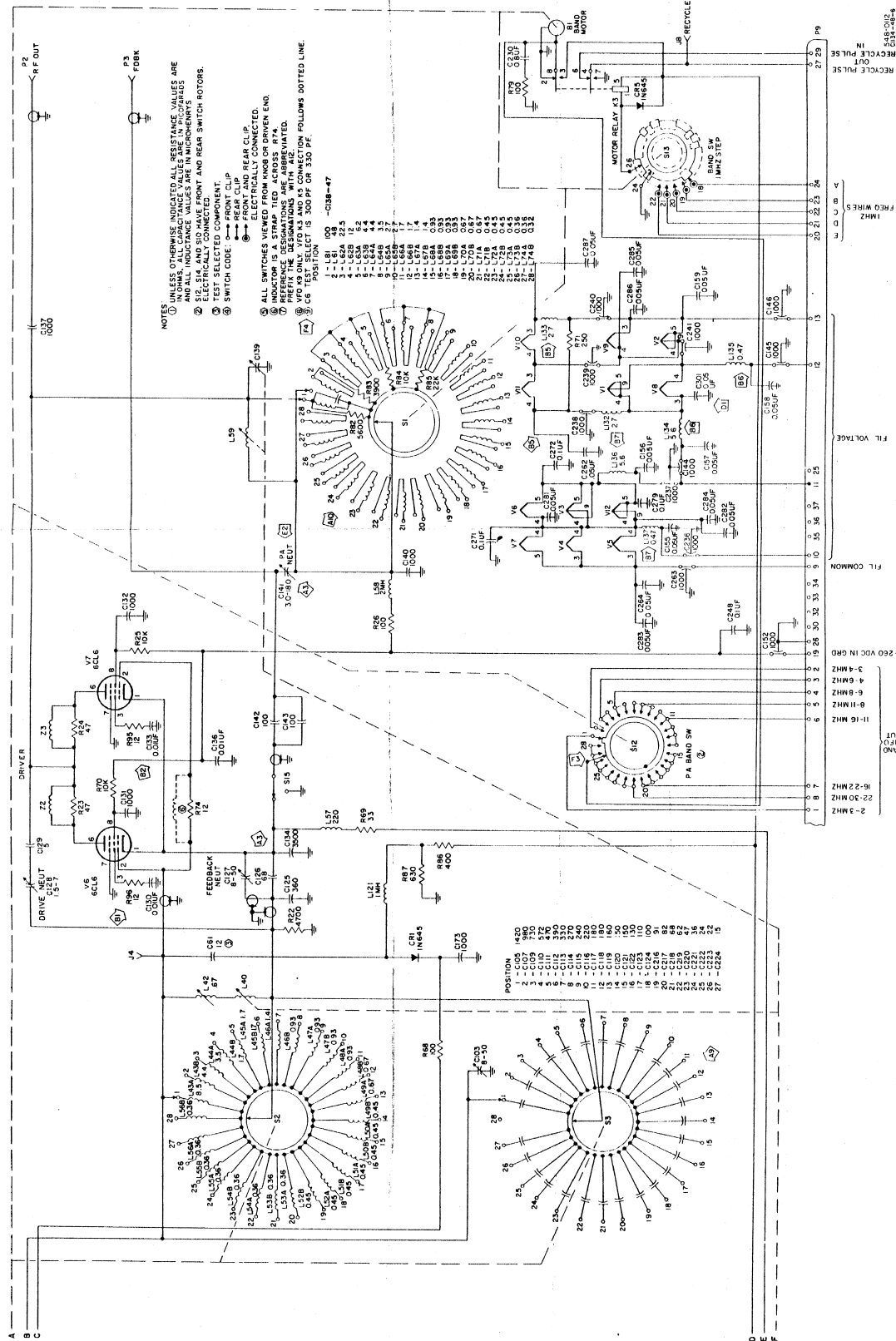
### Power Amplifier A11, Schematic Diagram (Late Model)

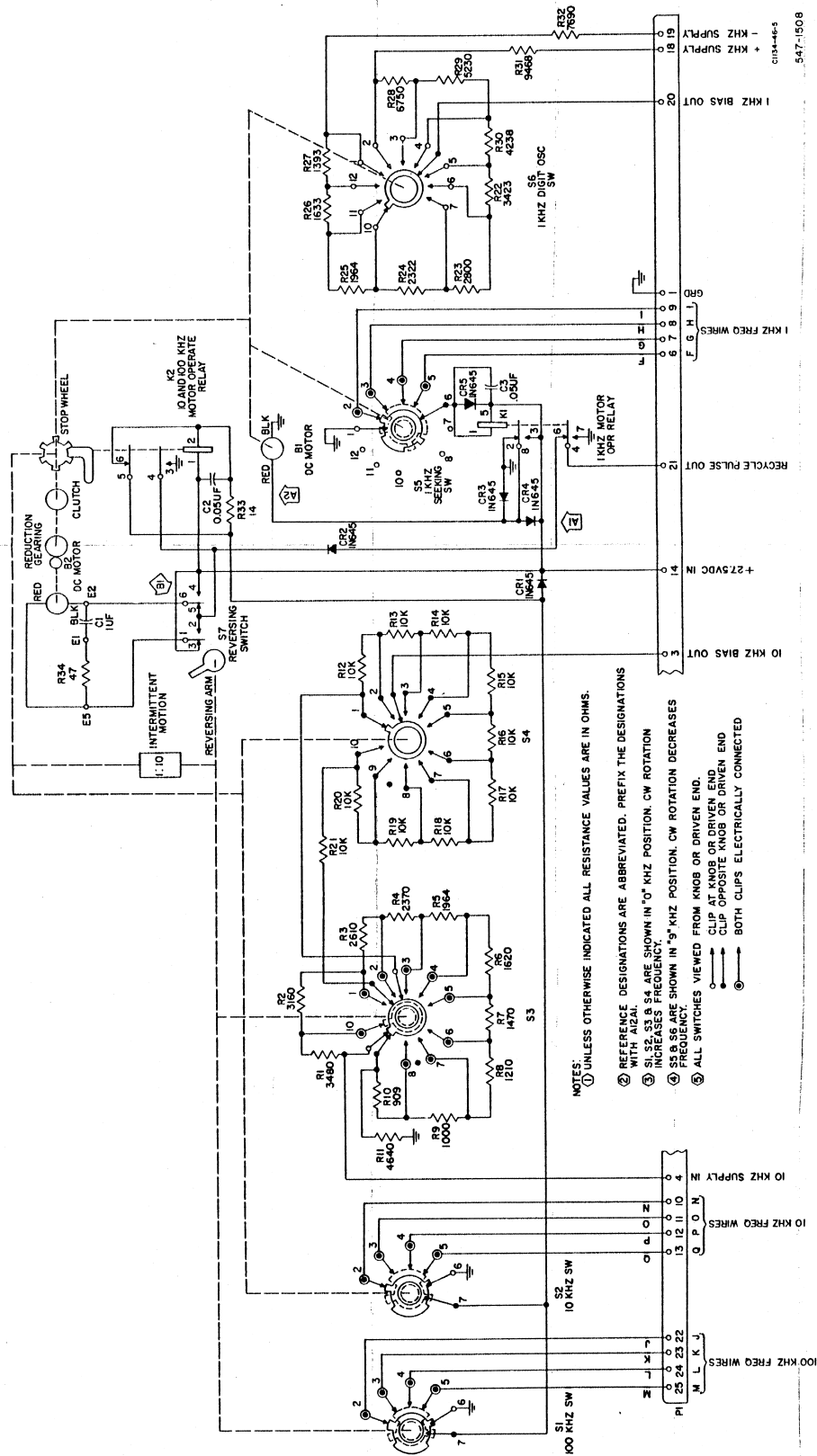




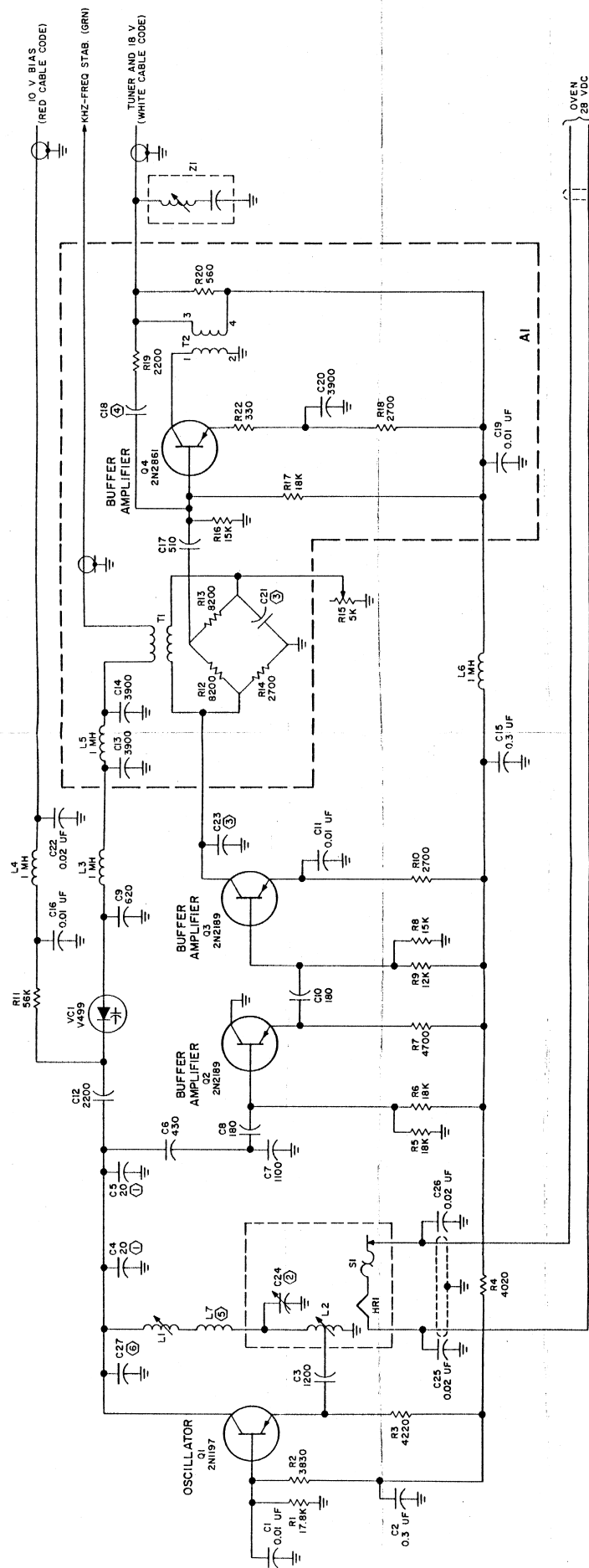
618T-1/2/3 RF Translator A12,  
Schematic Diagram (Late Model)  
Figure 830 (Sheet 2)

23-10-0  
Pages 801/29, 801/30  
Nov 1/75





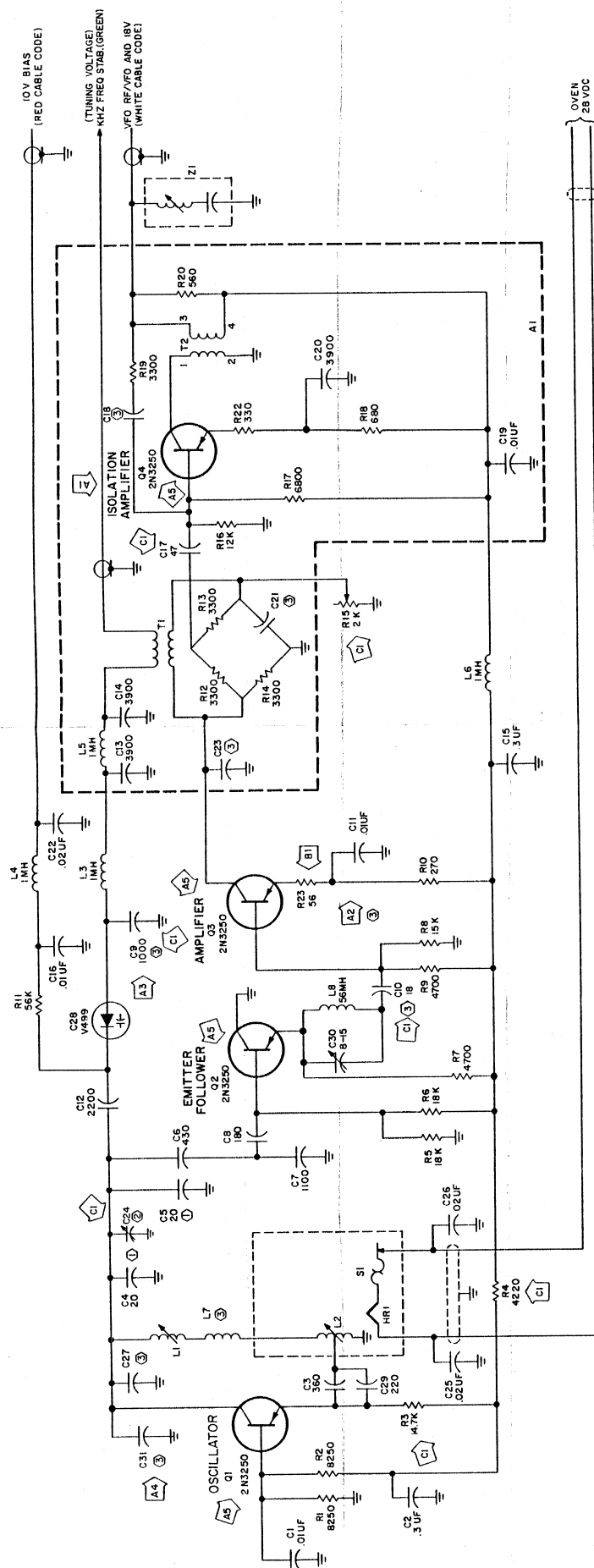
618T-1/2/3 Autopositioner A12A1, Schematic Diagram  
Figure 832



- NOTES:
- ① TEMPERATURE COMPENSATION SELECTED IN FINAL TEST.
  - ② VIBRATING COMPENSATING CAPACITOR.
  - ③ SELECTED IN FINAL TEST FROM FOLLOWING VALUES:
- |      |     |     |      |
|------|-----|-----|------|
| 0.51 | 3.0 | 6.2 | 10.0 |
| 1.0  | 3.6 | 6.8 | 15.0 |
| 1.5  | 4.3 | 7.5 | 20.0 |
| 2.0  | 4.7 | 8.2 | 24.0 |
| 2.4  | 5.1 | 9.1 | 30.0 |
- ④ SELECTED IN FINAL TEST FROM FOLLOWING VALUES:
- |     |    |    |
|-----|----|----|
| 8.2 | 10 | 15 |
|-----|----|----|
- ⑤ SELECTED IN FINAL TEST FROM FOLLOWING VALUES:
- |        |         |      |
|--------|---------|------|
| 0.1 UH | 0.22 UH | NONE |
|--------|---------|------|
- ⑥ TEST SELECT.
  - ⑦ UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN PICOFARADS, AND INDUCTANCE VALUES ARE IN MICROHENRYS.

TPD-5498-014

618T-1/2/3 VFO A12A2 (Model 70K-9), Schematic Diagram (Early Model)  
Figure 834

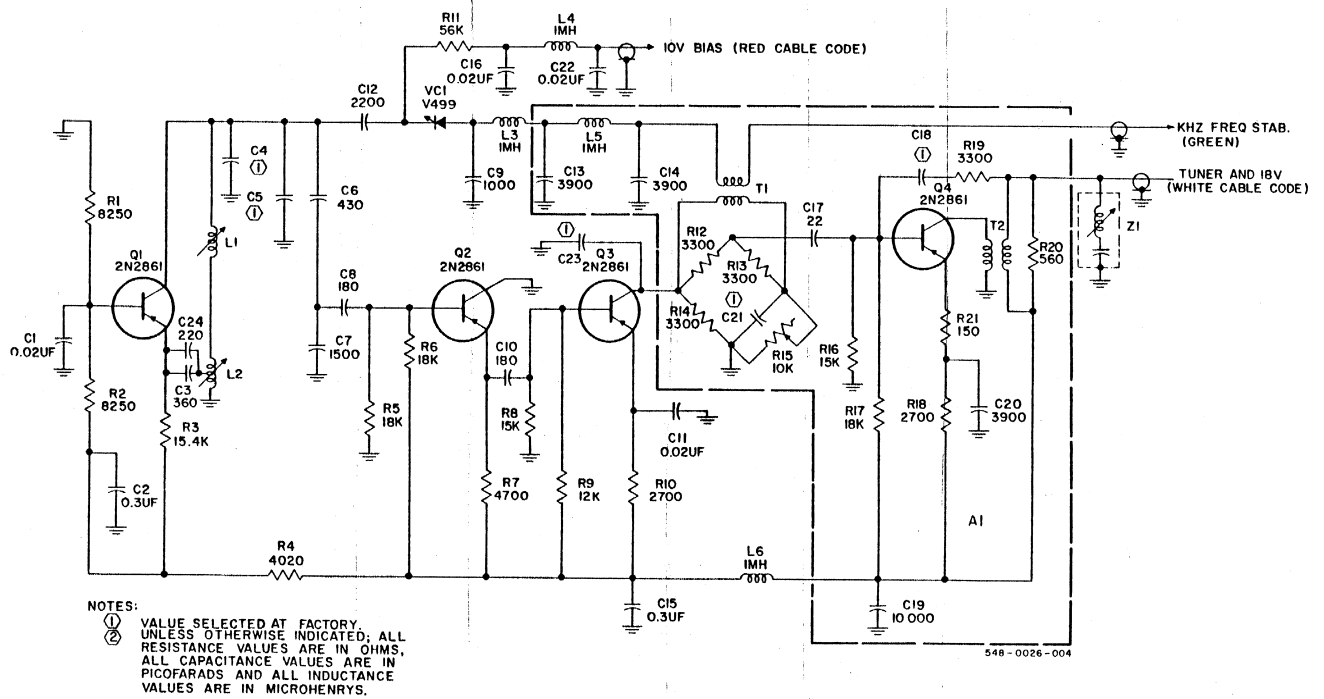


- NOTES:
- ① TEMPERATURE COMPENSATION SELECTED IN FINAL TEST.
  - ② VIBRATING COMPENSATING CAPACITOR.
  - ③ TEST SELECT.
  - ④ UNLESS OTHERWISE INDICATED, ALL RESISTANCE VALUES ARE IN OHMS, ALL CAPACITANCE VALUES ARE IN MICROFARADS, AND ALL INDUCTANCE VALUES ARE IN MICROHENRYS.
  - ⑤ REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE DESIGNATION WITH THE REFERENCE DESIGNATION A12A2.

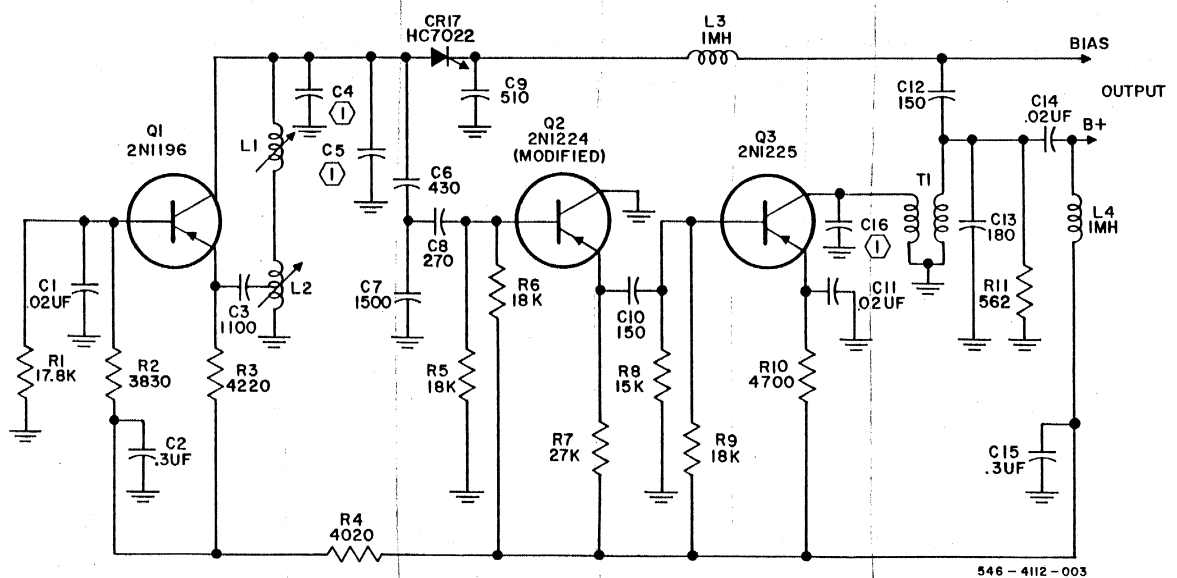
554-4932-005  
C1134-B1-4

618T-1/2/3 VFO A12A2 (Model 70K-9), Schematic Diagram (Late Model)

Figure 833



618T-1/2/3 VFO A12A2 (Model 70K-5), Schematic Diagram  
Figure 835



NOTES:

- ① SELECTED AT FACTORY.
- ② UNLESS OTHERWISE SPECIFIED; RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, AND INDUCTANCE VALUES ARE IN MICROHENRYS.

618T-1/2/3 VFO A12A2 (Model 70K-3), Schematic Diagram  
Figure 836

*Collins*  
INSTALLATION MANUAL

