
TECHNICAL MANUAL

Plastic Laminated Diagrams for Direct
and General Support Maintenance
RECEIVER-TRANSMITTER, RADIO
RT-841/PRC-77
(NSN 5820-00-930-3725)
(Part of Radio Set AN/PRC-77)

NOTICE TO USERS

This package contains a questionnaire on the Usability of Plastic laminated Diagrams for maintenance operations. To help us determine the value of these diagrams, please fill out the questionnaire, fold it where shown, and drop it in the mail.

If the questionnaire has been used, you can forward comments using DA Form 2028 (Recommended Changes to Publications and Blank Forms). Send to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703.

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By Order of the Secretary of the Army:

FRED C. WEYAND
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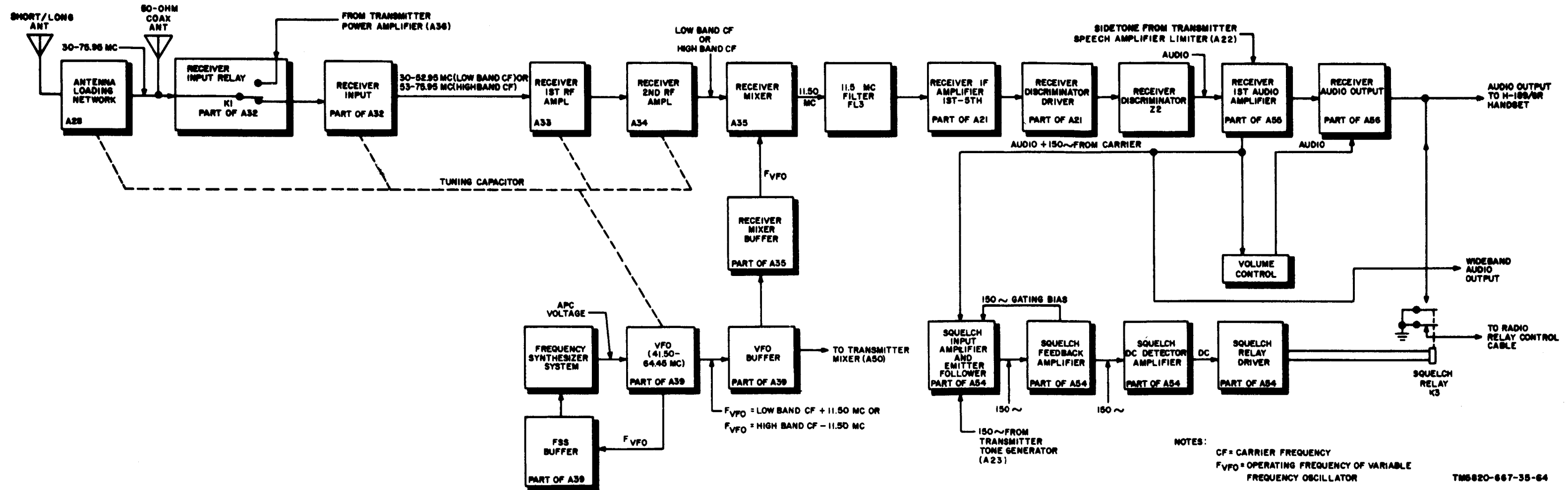


FIGURE 7-15. RECEIVER-TRANSMITTER, RECEIVE MODE SIGNAL PATH, BLOCK DIAGRAM.

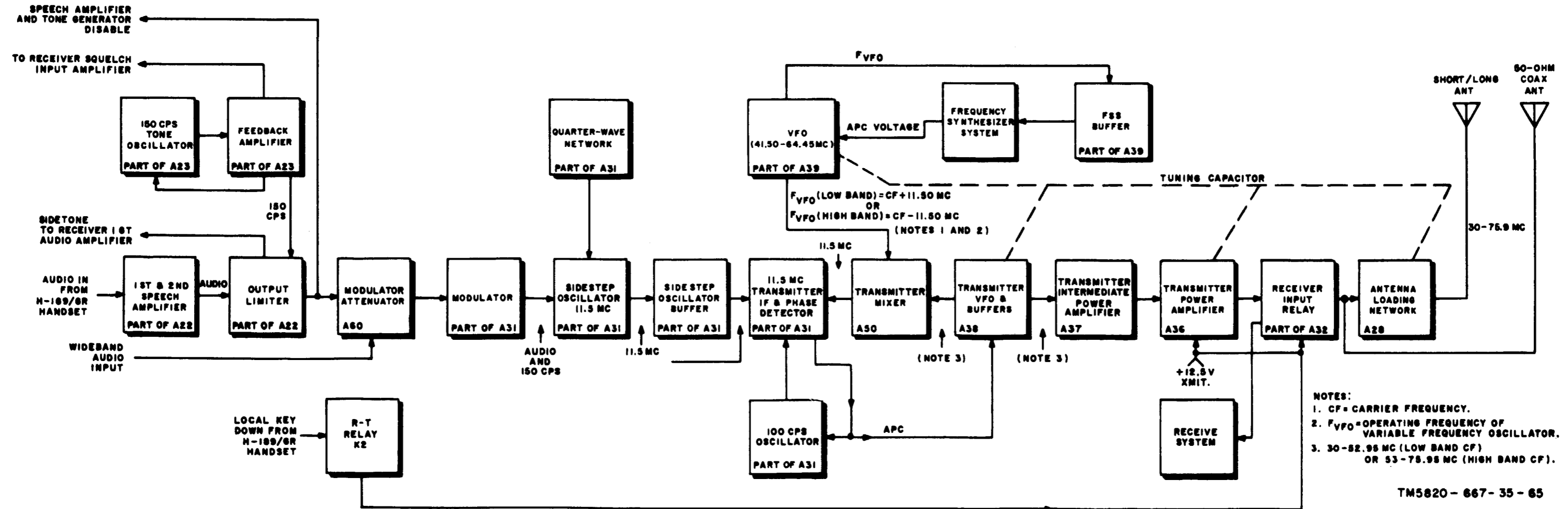
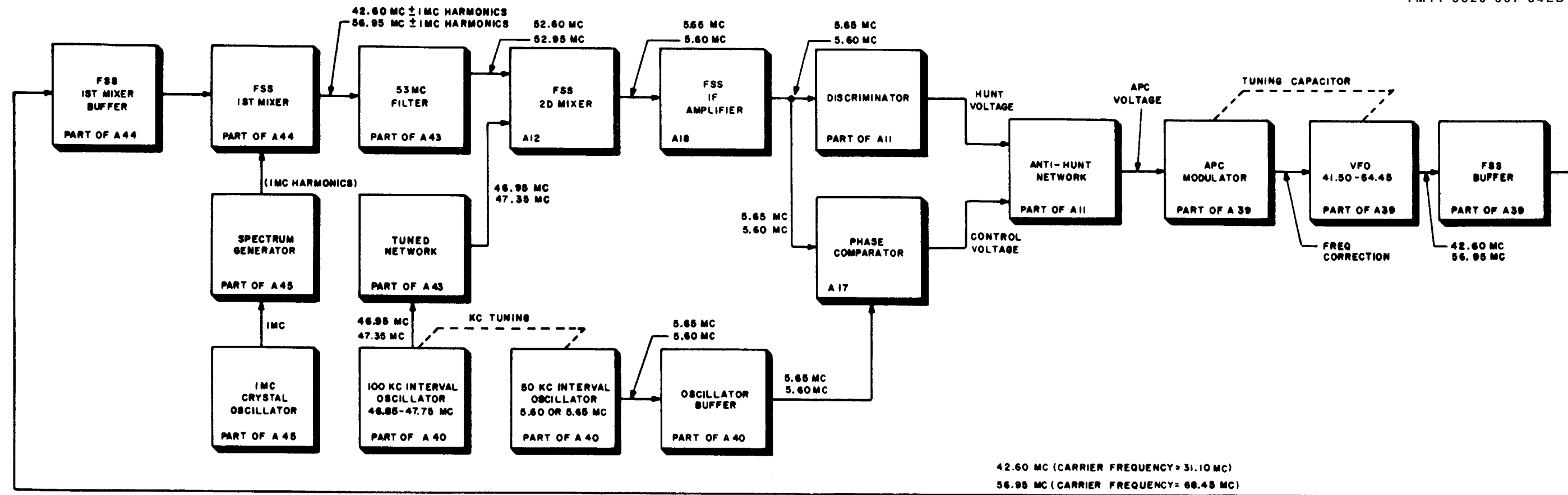


FIGURE 7-16. RECEIVER- TRANSMITTER, TRANSMIT MODE SIGNAL PATH, BLOCK DIAGRAM.



42.60 MC (CARRIER FREQUENCY = 31.10 MC)
 56.95 MC (CARRIER FREQUENCY = 68.45 MC)

NOTES :

1. TWO RT-841/PRC-77 CARRIER FREQUENCIES ARE USED TO ILLUSTRATE THE FREQUENCY RELATIONSHIPS OF THE FSS 31.10 MC (LOW BAND), AND 68.45 MC (HIGH BAND). FREQUENCIES ASSOCIATED WITH THE LOW BAND CARRIER ARE INDICATED ABOVE THE FREQUENCIES ASSOCIATE WITH THE HIGH BAND CARRIER.
2. FSS DENOTES FREQUENCY SYNTHESIZER SYSTEM.

FIGURE 7-17. FREQUENCY SYNTHESIZER SYSTEM, BLOCK DIAGRAM.

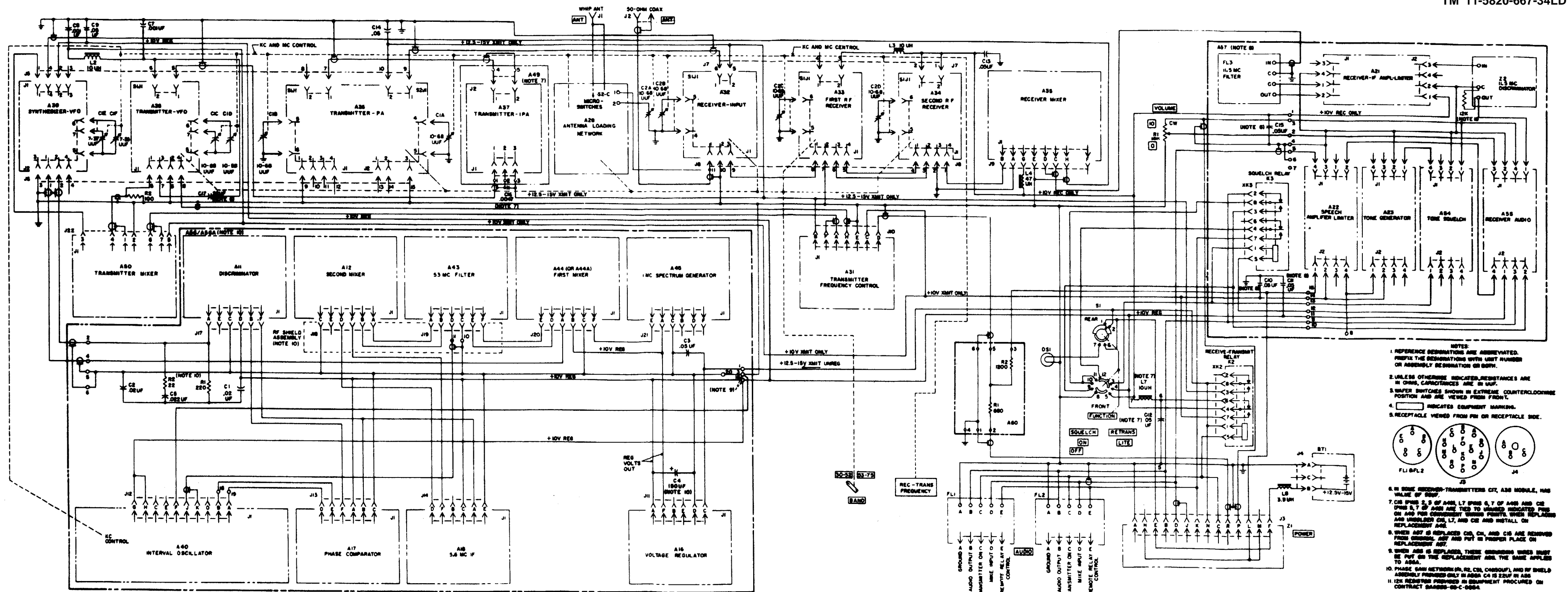


FIGURE 7-18. OVERALL CHASSIS INTERCONNECTION DIAGRAM, RT-841/PRC-77

- NOTES:
1. REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE DESIGNATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 2. UNLESS OTHERWISE INDICATED, RESISTANCES ARE IN OHMS, CAPACITANCES ARE IN UUF.
 3. WIPER SWITCHES SHOWN IN EXTREME COUNTERCLOCKWISE POSITION AND ARE VIEWED FROM FRONT.
 4. □ INDICATES EQUIPMENT MARKING.
 5. RECEPTACLE VIEWED FROM PIN OR RECEPTACLE SIDE.
- FL1 & FL2
- J4
6. IN SOME RECEIVER-TRANSMITTERS C7, A58 MODULE, HAS VALUE OF 500P.
 7. C10 SPIN 2, 5 OF A50, L7 SPIN 6, 7 OF A45 AND C2 SPIN 5, 7 OF A55 ARE TIED TO UNGROUNDED PINS ON A40 FOR CONVENIENT WIRING POINTS. WHEN REPLACING AND UNGROUNDED C10, L7, AND C2 AND INSTALL ON REPLACEMENT A40.
 8. WHEN A57 IS REPLACED C10, C11, AND C12 ARE REMOVED FROM GROUND, A57 AND PWT IN PROPER PLACE ON REPLACEMENT A57.
 9. WHEN A55 IS REPLACED, THESE GROUNDING WIRES MUST BE PUT ON THE REPLACEMENT AND THE BIAS APPLIED TO A55A.
 10. PHASE GAIN NETWORK (R2, C10, C100UUF), AND RF SHIELD ASSEMBLY PROVIDED ONLY IN A55A C4 IS 22UF IN A55 REPLACEMENT A55.
 11. IXX RESISTORS PROVIDED IN EQUIPMENT PROCURED ON CONTRACT NUMBER 69-C-0884.
- EL880-667-36-C1-TS-67

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