

DATE 2/23/60

H. 1 OF 2

COMPILED BY

TMC SPECIFICATION NO. S-478

TITLE: MODIFY GPR-90RX to GPR-90RXD

JOB

APPROVED

1. Remove R56 from T8 - A-1041.
2. Change R49 from 33K to 27K, 2 watts.
3. Change R46 from 12K to 470 ohms, 1/2 watt.
4. Change R66 from 330K to 180K.
5. Delete R9.
6. Connect R10 and C11 direct to pin 2 of V2.
7. Remove V2 tube (6CB6) and replace it with a 6DC6.
8. To inject external OSC. and electronically disconnect internal OSC. add the following to the sub-chassis of V4 and V5 (Second Converter Assembly):
 - (1) 150K 1/2 watt - R104
 - (2) 100 ohm 1/2 watt - R105
 - (3) 1300 mmfd Mica - C153
 - (4) 5000 mmfd Ceramic - C154
 - (5) 4.7 750 mmfd Ceramic - C155
 - (6) 1N34A Diode - CR1
 - (7) 3 lug terminal strip
 - (8) 1 stand-off turret type
9. Remove ground from I.F. T7, add 100K, R106 from T7 to AVC buss from junction of T7 and 100K add .01 C156 to ground.
10. Add a 68K, 2 watts - R106 to the junction of R63 and C69, the other end of R106 to the AVC output jack.
11. Add a .002 condensor C157 from the AVC output jack to ground.
12. Break the connection between the R58 and R60 bring out two leads:
 - one from R58 to the minus (-) terminal of terminal strip AVC
 - one from R60 to the plus (+) terminal of terminal strip AVC
13. Remove C68 from pin 7 of V9 and connect to pin marked Blue on T8.
14. Remove lead going from L22 (yellow pin) to C59 and to T7 (green pin).
15. Delete R85.
16. Change R86 to 68K 1/2 watt.
17. Add L137 from R86 to pin 5 of V13.
18. Add C158 (390 mmfd) and C159 (6200 mmfd) to L37.
19. Relocate C59 15 mmfd from the top of L138 to pin 7 of V9.

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20. Add tilt slides.
21. Add a 330 mmfd condensor C160 from C57 and I.F. out jack to ground.
22. Add two 7/16" holes rear chassis mount UG-625/U.
23. Add slot and two holes to rear chassis to mount TM-116-4.
24. Modify SW-222.
25. Restamp chassis for 6DC6.
26. Add stamping for component mounted on rear chassis.
27. Remove R2 from AVC line and ground.
28. New Schematic Diagram for Model GPR-90RXD - CK-436.