

TMC SPECIFICATION

NO. S *1065* 1057

REV:

COMPILED:

M. E. G.

CHECKED:

APPD:

SHE T 1

TITLE:

CONVERSION OF GPR-92 TO GPR-92A

KIT-279

1. Remove top and bottom covers.
2. Place bandswitch in position one. .54-1.4
3. A. If bandswitch detent (DT-100) is mounted on gear plate just remove knob. ✓
B. If bandswitch detent (DT-100) is mounted on front panel loosen two (2) set screws to allow coupler to be removed with front panel.
4. Remove the following knobs.
 - A. Bandswitch if necessary, see Step 3.
 - B. IF Selectivity
 - C. Two (2) lock knobs.
 - D. Tuning
 - E. Band spread
 - F. B.F.O.
 - G. Mode
 - H. Audio Gain
 - I. H.F.O.
5. Remove nuts of mode switch and audio gain control.
6. Remove handles and ferrules.
7. Remove two flathead screws at right & left center of panel.
8. Work panel forward and fold down to rewire.
9. Remove coupler and shaft from antenna trimmer C129.
10. Remove wire #66 from S103 & S105 cut out of cable.
11. Remove wires #13 & 43 from S103 and remove SW227-B (S103) and replace with ST-103-1-62, and rewire.
12. Remove jumper between R162 and S104. Cut off ground lug close to shaft.
13. Remove .02 capacitor C-134 from R110.
14. Remove wire #64 from cable. (R110 to S104 cutback)
15. Cut wire #27 close to R110.
16. Remove ground lug from R202 and replace with new TE-111-2.
17. A. Wire item #79 S105-3B (wiper) to S-104 with item #59.
B. Wire item #80 from S105-3B (wiper) along cable and into main chassis through left side (view from front) See Step #35.
C. Wire item #83 to S105-1B (with item #12 & #68). Run lead along cable through left side (view from front) of main chassis. Leave long lead see Step #.33.
D. Wire item #81 from S104 (with item #66) to S103 (with item #13).
E. Wire item #66 (New wire) to S104 (with wire #81) run along cable through left side of main chassis (view from front) Leave a long lead, see Step #34.

Being Rewritten by Paul Henry

TMC SPECIFICATION

NO. 5

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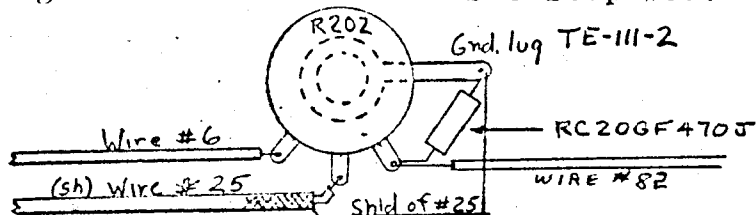
SHEET 2 OF

TITLE:

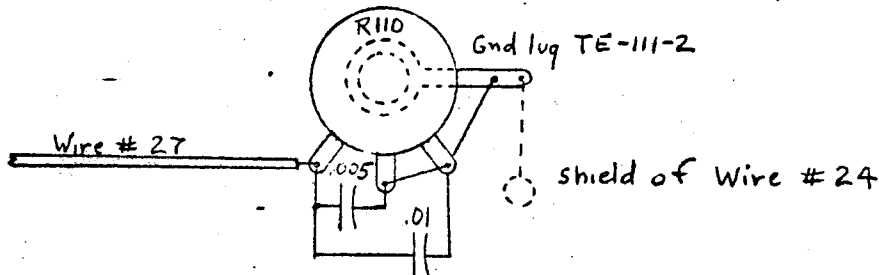
CONVERSION OF GPR-92 TO GPR-92A

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- ✓ 18. Wire R202 as shown (viewed from rear of panel.) Run item #82 through right side of chassis. See Step #39.



19. Rewire R110 as shown: (View from rear of Panel.)



20. Replace front panel, Steps 3 thru 8 in reverse.
- X 21. ✓ A. Remove antenna trimmer C129 and modify by removing six (6) stator and ~~six~~ ^{nine} (9) rotor blades. ✓
 ✓ B. Mount modified C129 on the inside of cast housing. ✓
 X ✓ C. Wire a green jumper from green lead of C-153A to stator of C129.
22. Modify MC-107 by enlarging 1/8 hole to .159 (#21 drill) and mount on C129.
23. Replace PM-691FS10.62E with PM-691FS9.687E and insert.
24. Remove shield and 6DC6 tube.
25. Remove bandswitch shaft. (Be sure switch is in position #1) by loosening set screws in coupler and pushing shaft through rear chassis.
26. Remove entire plate assemble MS-3396 cut lead at switch.
27. Remove V103 socket (note position) and TM-121-2 cutting leads at solder joint of socket and TM.
- ✓ 28. Remove old L.D. (6DC6) from V103 and restamp 6AB4.
- ✓ 29. Mount new ~~TS-160-1~~, TM-121-2, TM-121-1. **TS-102-PO**
 ✓ A. TS-102-poI mounted opposite (180°) of old socket.
 ✓ B. TM-121-2 mounted at hole near key way of socket.
 ✓ C. TM-121-1 mounted at other hole of socket.
- ✓ 30. Cut wire #26 from cable.
- ✓ 31. Cut wire #60 from E101-8 cut back to cable.
- ✓ 32. Remove L.D. GRD from rear of chassis at E101-8 and restamp +105 Sw.
- ✓ 33. Wire #83 to E101-8 see Step #17C.
- ✓ 34. Wire #66 to E101-10 see Step #17E.

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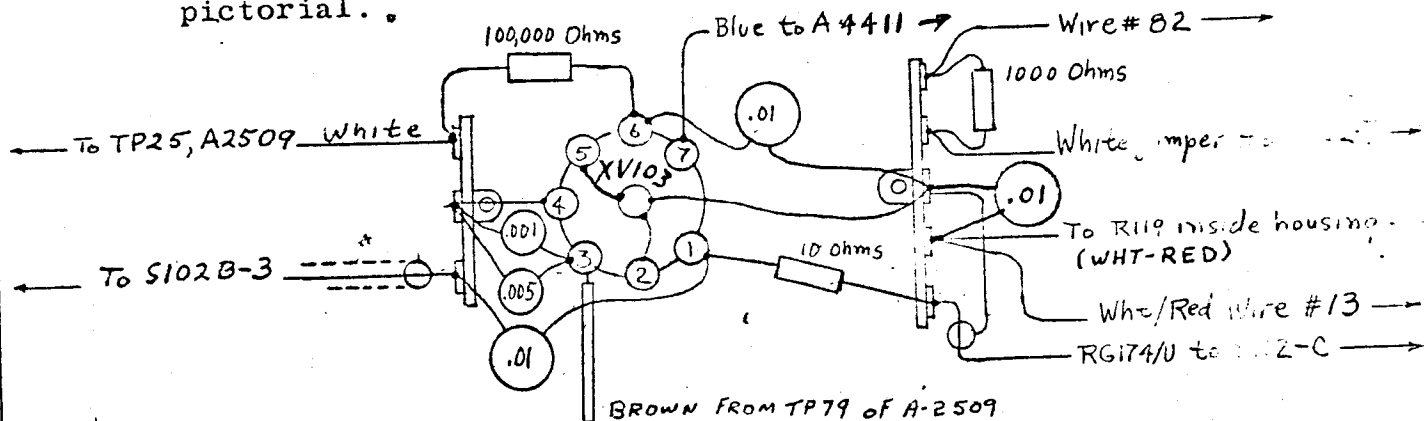
SHEET 3 OF _____

TITLE:

CONVERSION OF GPR-92 TO GPR-92A

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- ✓ 35. Wire #80 to TP74 of A-2509 P.C. Board, See Step 17B.
- ✓ 36. Wire #13 moved from TP74 and connect to terminal strip, with Wh-Red wire from R119 of A-3266 RF Board, See Pictorial.
- ✓ 37. Connect brown wire from TP79 of A-2509 to pin 3 of XV103.
- ✓ 38. Remove ground lug from under screw near XV102 move it to screw near XV102 on A-2509 P.C. Board; do not disconnect. ?
- ✓ 39. Connect item #82 to terminal strip. See step #18 and pictorial.



- 40. Install the following components as per pictorial.
 - ✓ A. Connect jumper lead from T102-7 to terminal strip. See Pictorial.
 - ✓ B. Three (3) CC-100-16 (.01) XV103 pin 1 to tm. pin 6 to grd.
 - ✓ C. One (1) CC-100-15 (.005) XV103 pin 3 to grd. C105.
 - ✓ D. One (1) CC-100-9 (.001) XV103 pin 3 to grd. C104.
 - ✓ E. RC20GF102J 1000 ohms on terminal strip.
 - ✓ F. RC20GF100J 10 ohms XV102 pin 1 to terminal strip.
 - ✓ G. RC20GF104J 100,000 ohms XV103 pin 6 to terminal strip.
- ✓ 41. Mount A-5427 assembly to cast housing. (white in T103)
- ✓ 42. Wire RG174/U from TP68 of A-2509 & grd., to TR116, pin 3 (hot) and pin 2 grd.
- ✓ 43. Run yellow wire from TP33 of A-2509 to stand-off lug on A- 5427.
- ✓ 44. Run longer yellow lead from TP16 (A-2510) to stand-off on A- 5427.
- ✓ 45. Remove shield of item 17 and jumper from E101-17.
- ✓ 46. Connect shield of item 17 directly to grd.
- ✓ 47. Run orange wire from E101-17 to TR116 pin 4. (100)
- ✓ 48. Remove L110 from A-2508 Board and replace with CL-275-101.
- ✓ 49. Remove C215 (CC-100-16) and replace with CC-100-15 on A-2508 P.C. Board. (.005)
- ✓ 50. Insert new bandswitch shaft PM691FF9.00P and tighten set screws in coupler.
- ✓ 51. Replace 6DC6 with 6AB4 and replace tube shield.

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4/10/1

- ✓ 52. Remove A-2506-4 terminal board assembly and relocate on rear chassis, see Print MS-2961 / LD-1092 , for new mounting holes.
- ✓ 53. Remove complete Rect. Bd. assembly A-3337 from unit. Mount TM-II7-23 on power transformer stud.
- ✓ 54. Wire in new part DD-130-600-15
 - ✓ A. AC leads to power transformer.
 - ✓ B. Minus (-) lead to ground.
 - ✓ C. Plus (+) lead to R101.
- ✓ 55. Restamp rear chassis as per LD- 1092
- 56. A-5427 consists of:

A. A4411 (Modified A-1347) .-	P. SCBP0440BNI6 2p s.
B. MS4848/LD2050	Q. LWSO4MRN 2pcs.
C. TR116 (A1006)	R. FWO4 MRN 4pcs.
D. WS-100-1 S102A,	S. SCBP0632BN6 2pcs.
E. WS-100-7 S102B	T. LWEO6MRN 3pcs.
F. 6 WA-109-I7	U. SCBP0440BN4 1pc..
G. A-1344, L104	V. NTH0632BN8
H. RC20GF221J R109	W. SCBP0632BNI4
J. CC-100-16 C-282	
K. TE-102-2	
L. 4 TE-117-38	
M. WA-101-3	
N. 2 NTH0440BN6	
O. 2 CM15E680JO3, C127, C128	
- ✓ 57. Remove stator lead from H.F.O. trimmer C189 to stand-off and replace with CM15E510G.
- ✓ 58. Remove RII5 (RC32GF272J) and replace with (RC32GF103J) in A-3266-4 assembly. (second RF stage)
- ✓ 59. Install CC-100-28 between TP 3I and VII0 socket grd. of A-2509 P.C. board.
- ✓ 60. Install CC-100-28 on A2509 P.C. Board at C223.

FOR CONVERSION REFER TO:

TEST SPECIFICATION	SI065
MAIN CABLE	CA 707
SCHEMATIC	CK500
BLOCK DIAGRAM	CH250