

DATE 4-7-58
SH. 1 OF 3
COMPILED BY
P.I.K.

TMC SPECIFICATION NO. S 353

TITLE: MODIFICATION OF MSR-1 TO BECOME MSR-3

JOB

APPROVED



FOR COMPANY USE ONLY

CONFIDENTIAL

1. MSR-3 requires all of the following changes to modify a MSR-1.
2. The MSR-1 can be improved by making all changes except, I. The 1st Oscillator and Reactance circuit changes.

I. 1st Oscillator changes for operation with 200 KC I.F.

1. Z3 modified.
 - a. T2 changed to A-1507
 - b. C32 changed to CM20C820G
2. C31 changed to L3-6.4 mh coil.
3. R37 changed to RC20GF104K.
4. R68 RC20GF273K added to S4.
5. Terminal Board TB-2 rewired.
6. Lead from C29 and L3 rewired on relay K2.
7. Terminal Board TB-4 changed.
8. R44 changed to RC20GF684K.
9. R45 changed to RC20GF274K.
10. C45 changed to CC21SL100J.
11. R49 changed to RC20GF471K.
12. R67 RC20GF105K added to V10.
13. C57 added - CC-100-16.
14. Y1, Y2 changed.

II. Additional Changes to Improve Unit.

- A. Increase Audio Gain.
 1. Change V6 12AU7 to 12AT7.
 2. Audio Gain control placed in grid circuit of 1st Audio Amplifier V6B.
 3. Change R30 to RV4ATR105D.
 4. Terminal Board TB-1 changed.

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5. Change R32 to RC20GF474K.
 6. Change R31 to RC20GF391K.
 7. Change C24 to CC-100-16.
 8. Switch S-8 ST-22K added on chassis in place of R54, R54 added to rear apron.
 9. C31 changed to CN-100-4 added to feedback loop.
 10. R63 changed to RC20GF473K, removed from output pad and added to feedback loop.
 11. R36 changed to RC30GF333K rewired with C27 to plate circuit of V6B.
 12. Original R63 changed to R64 - RC20GF681K.
 13. Original R64 changed to R65 - RC20GF273K.
 14. Original R65 removed.
 15. R66 changed to RC20GF681K.
 16. Second section of S-8 connects output pad to T1
 17. Insulated stand off TE-102-2 added to mount C31.
- B. Noise Limiter Switch rewired.
1. C23 changed to CC-100-16.
 2. S3 changed to ST-22N.
- C. 2nd Mixer
1. R19 changed to RC20GF203K.
 2. R20 changed to RC20GF104K.
 3. C16 changed to CC26SL820J.
 4. R69 - RC20GF203K added to Z1.
- D. I.F. Amplifier
1. R5 changed to RC20GF331K.
 2. R1 changed to RC20GF394K.
 3. R3 changed to RC20GF104K.
 4. R7 changed to RC20GF471K.

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E. Power Supply

1. C57 removed.
2. C49 changed to C49A,B - CE-102.

III.

1. Cable Diagram includes all the changes required for the above.
2. Main chassis changed to allow inclusion of S-8 and placing R60 on rear panel.
3. Stamping Drawing changed.