Service Bulletin
for
Model 312C Solid State FM Stereo Tuner

SPECIFICATIONS

Usable Sensitivity (UV) 1.7 uv
Cross Modulation Rejection 90 db
Signal to Noise Ratio 65 db
Total Harmonic Distortion 0.8%
Frequency Deviation less than .02%
Frequency Response * 50-15,000 Hz: +1 db
Selectivity 45 db
Hum -70 db
Separation 40 db
Audio Output (100% modulation) 1.2 vrms
Tuning Range 87-109 mc
Accuracy of Calibration 0.5%
FM Front End 3 Field Effect

* This is limit of F.C.C. specifications. All SCOTT tuners have far wider frequency response.

NOTES
1. Unless otherwise specified: Resistance in ohms ± 10%
capacitance in MFD's. Resistors 1/4 watt.
2. Indicated supply voltages may vary above or below
nominal voltage shown from model to model.
3. DC voltages ± 15% measured with 20k ohm/v vom.
4. Arrow-heads indicate main signal path.

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Z-PC-NS-2 Parts List

PC BOARD  PC-124
C1       CTT-1/25
C2       CC-02
Q1, Q2   QA-15, 2N3711, 2N2925

R1
R2
R3
R4
R5
R6
RCV-3M-PCM
RC11-680k
RC11-82k
RC11-18k
RC11-330
RC11-220k
8.2 PC Board Component Layout with Resistance Measurements

Resistance Measurements

Note

1) All measurements made with PC boards wired into completed tuner, with line cord disconnected (power mains disconnected).

2) All resistance measurements made with a Triplet Model 630 VOM.

3) Negative side of VOM battery to ground.

4) All controls set as below.

- METER function switch – “Center Tuning”
- FUNCTION rotary switch – “Off”
- SELECTOR rotary switch – “Automatic Stereo,” “Muting-Off”
- Stereo Separation controls – set for maximum separation
- LEVEL controls – both maximum clockwise
FM IF Amplifier

Q301, Q302, Q303 - SE1001 & ME1001
Q304, Q305 - SE3001 & ME3001
NOTES
1. UNLESS OTHERWISE SPECIFIED: RESISTANCE IN OHMS ±10%.
2. CAPACITOR, 0.01 µF, 630 VDC, RESISTORS 1/4 Watt.
3. ROTARY SWITCHES SHOWN IN FULL CCW POSITION AS VIEWED FROM THE FRONT.
4. ON 2-PC-1F-1 ASSEMBLY RESISTORS R328 AND R330 ARE REMOVED.
5. ARROW HEADS INDICATE MAIN SIGNAL PATH.
6. ARROW ON POTENTIOMETER INDICATES CW ROTATION.