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 vam.
4. Arrow-heads indicate main signal path.

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312-C-2
Q1, Q2 - 2N2925 or 2N3711 (QA-15)

INTERSTATION Z-PC-NS-2
NOISE MUTING

NOTES:
1. UNLESS OTHERWISE SPECIFIED: RESISTANCE IN OHMS ±10%
CAPACITANCE IN MFD'S RESISTORS 1/4 WATT
2. ARROW ON POTENTIOMETER INDICATES CW ROTATION
3. FOR USE WITH EXTERNAL MUTING CONTROL WHEN R1 IS NOT ON BOARD.

Z-PC-NS-2 Parts List

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<th>Q1, Q2</th>
<th>R1</th>
<th>R2</th>
<th>R3</th>
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<td>PC-124</td>
<td>CTT-1/25</td>
<td>CC-.02</td>
<td>QA-15, 2N3711, 2N2925</td>
<td>RCV-3M-PCM</td>
<td>RC11-680k</td>
<td>RC11-82k</td>
<td>RC11-18k</td>
<td>RC11-330</td>
<td>RC11-220k</td>
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</table>
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

NOTES

1. UNLESS OTHERWISE SPECIFIED: RESISTANCE IN OHMS ±10%, RESISTORS 1/2 WATT, CAPACITANCE IN MFD's.
2. D.C. VOLTAGES ±15% MEASURED WITH 20 KΩ/V VOM.
3. INDICATED SUPPLY VOLTAGES MAY VARY ABOVE OR BELOW NOMINAL VOLTAGE SHOWN FROM MODEL TO MODEL.
4. ARROW-HEADS INDICATE MAIN SIGNAL PATH.
Outs for center tuning and align meter circuits (R330 replaced by two 8K, ±1% resistors when these outputs are used.)

FM IF Amplifier

Q301, Q302, Q303 – SE1001 & ME1001  Q304, Q305 – SE3001 & ME3001

I.F. AMPLIFIER Z-PC-IF-1