TECHNICAL MANUAL
FOR
MODEL 844
FM MODULATION AND
STEREO MONITOR

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SECTION 1

GENERAL INFORMATION

1.1 General Description

The TFT Model 844 FM Modulation stereo monitor provides both on-the-air and off-the-air monitoring of FM broadcast stations operating in the frequency range of 88 to 108 MHz.

The three meter format allows stereo measurements while monitoring total modulation, Left and Right channels. Push button switches allow monitoring of the following functions on the LEFT/TEST Meter: left Channel, Right Channel, 38 kHz, 19 kHz pilot, L+R, L-R, Total modulation, AM noise, and multipath.

Front panel indicators show when a preset modulation percentage is exceeded on either positive or negative peaks.

Front panel controls allow the monitoring of two different frequencies without resetting.

Absence of modulation and carrier failure alarms are available as options.

1.2 Specifications

**RF SECTION**
- Frequency range: 88-108 MHz, tunable in 50 KHz steps
- On-site RF input voltage: 1 to 10 volts rms
- Antenna input voltage: 250 uV to 100mV
- Tuning: Two 4-digit switches and a push-button switch for selecting station A or B.
- AGC range: 60 dB
- Input impedance, antenna: 75 ohms
- Input connector, antenna: Type F

**MODULATION METERS, TOTAL**
- Deviation for 100% indication: + 75 KHz peak to peak
- Meter Range: 0 to 133% modulation
- AC Voltmeter range: 0 to -50 dB in 10 dB steps
- Accuracy (5-KHz tone): + 2% at all modulation levels
- Frequency response: ± 0.1 dB typical, ± 0.25 dB max from 50 Hz to 120 KHz

Characteristics: Quasi-peak reading circuit
Remote output: Suitable for driving remote readout meter panels.
MODULATION METERS, RIGHT
Right channel modulation ... Indicates and measures right channel modulation

MODULATION METER, LEFT/TEST
Left channel modulation ... Indicates and measures left channel modulation
Right channel modulation ... Same as right modulation meter
Main channel ... Same as total modulation meter
L + R ... + 0.35 dB, 50 Hz to 15 KHz
L - R ... + 0.35 dB, 23 KHz to 53 KHz
38 KHz level ... Measure down to -60 dB
Pilot level ... Measure down to -60 dB
Phase calibration ... For optimization of stereo measurements
AM noise ... Measures AM noise
Multipath indicator ... For adjustment of antenna to minimize multipath distortion

PEAK MODULATION INDICATORS
Deviation for 100% indication ... + 75 KHz
Peak level ... Set by a front panel 3-digit thumb-wheel switch in 1% steps from 0% to 199% on both positive and negative peaks
Accuracy (5-KHz tone) ... + 2% at 100% modulation
Frequency response ... + 2% from 30 Hz to 120 KHz
Response time accuracy ... Adjustable, 10 cycles of 10 KHz or faster
Remote flasher output ... Suitable for driving two remote meter panels
Peak counter ... Registers number of peaks per minute

MODULATION CALIBRATOR
Built in frequency synthesized calibrator for meter and peak flasher calibration of 100% modulation from the front panel. Accuracy ±1%.

MEASUREMENT OF RESIDUAL AM
Range ... 0 to 70 dB
Accuracy (at -30dB) ... ± 1 dB

OUTPUTS, FRONT AND REAR PANEL
Main channel output with
75 sec de-emphasis ... 5 volts rms into 5K ohms at 400 Hz
*Signal to noise ratio ... 78 dB at 400 Hz with de-emphasis
*Harmonic distortion ... 0.1% max (de-emphasized)
*Intermodulation distortion ... 0.1% max per SMPTE standard
*Frequency response ... +0.25 dB from 30 Hz to 120 KHz Composite
*Balanced audio output level... 0 dBm into 600 ohms.
*Balanced audio frequency
response... +0.5 dB from 30 Hz to 120 KHz
SCA output at rear panel... 1 volt rms into 600 ohms
Audio (with de-emphasis)
left and right... 1 V RMS, 600 ohms unbalance at 100%
modulation (400 Hz)
Audio (without de-emphasis)
left and right... 1 V RMS, 600 ohms unbalanced at 100%
modulation.
Pilot carrier (19 KHz)... 600 mV RMS, available on front panel
Composite... 5 V RMS, 10K ohms at 100% modulation
Remote meter... For Model 804 remote meter panel
Connectors... BNC
Meter output... Main meter selected signal available on front panel.
Carrier-failure alarm, optional... Relay drive output capable of sinking
50 mA to 30 V DC when RF carrier drops below 50% of nominal.
Absence of modulation
alarm, optional... An output capable of sinking 50 mA at
30 V DC when composite signal drops below 30% modulation for a period of
time between 2 sections and 1 minute, internally adjustable.

STEREO SEPARATION AND CROSSTALK
Separation L-to-R and R-to-L... 60 dB typical, 55 dB minimum,
50 Hz to 15 KHz
Crosstalk (L+R) to (L-R)
or (L-R) to (L+R)... 65 dB min
Crosstalk SCA to (L+R)
or SCA to (L-R)... 70 dB min
Pilot carrier measurement
level accuracy... +0.5% from 6% to 12% injection

MECHANICAL AND ENVIRONMENTAL
Input power... 117/230 ±10% VAC, 50 to 400 Hz,
40 watts max
Operating temperature... 0°F to 50°F (32°F to 122°F)
Size... 7" (17.78cm) high x 19" (48.26cm)
wide x 15" (38.10cm) deep
Net Weight... Approximately 18.5 pounds (8.4 Kg)
Shipping weight... Approximately 22.5 pounds (10.2Kg)

1.3

Accessory Equipment

1.3.1

Model 730A SCA Monitor

The Model 730A enables FM stations broadcasting SCA
information on the carrier to meet all FCC SCA requirements. The model
844 provides a composite input to the model 730A.
1.3.2 Model 804 Remote Metering Panel

The Model 804 duplicates flasher and meter readings and comes with 50 feet of cable (TFT Part No. 51160-0804)

1.4 Warranty

TIME & FREQUENCY TECHNOLOGY, INC., warrants each of the instruments of its manufacture to be produced to meet the specifications delivered to the BUYER; and to be free from defects in material and workmanship and will repair or replace, at its expense, for a period of one year from the date of delivery of equipment, any parts which are defective from faulty material or poor workmanship.

Instruments found to be defective during the warranty period shall be returned to the factory with transportation charges prepaid by BUYER. It is with respect to any nonconforming equipment and parts thereof and shall be in lieu of any other remedy available by applicable law. All returns to the factory must be authorized by the SELLER, prior to such returns. Upon examination by the factory, if the instrument is found to be defective, the unit will be repaired and returned to the BUYER, with transportation charges prepaid by SELLER.

Transportation charges for instruments found to be defective within the first thirty (30) days of the warranty period will be paid both ways by the SELLER.

Transportation charges for warranty returns, wherein failure is found not to be the fault of the SELLER, shall be paid both ways by the BUYER.

NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. TFT IS NOT LIABLE FOR CONSEQUENTIAL DAMAGES.

1.5 Claim for Damage in shipment

Your instrument should be inspected and tested as soon as it is received. The instrument is insured for safe delivery. If the instrument is damaged in any way or fails to operate properly, file a claim with the carrier, or if insured separately, with the insurance company.

WE SINCERELY PLEDGE OUR IMMEDIATE AND FULLEST COOPERATION TO ALL USERS OF OUR PRECISION ELECTRONICS INSTRUMENTS.

PLEASE ADVISE US IF WE CAN ASSIST YOU IN ANY MANNER.

TFT Inc.
3090 Oakmead Village Drive
Santa Clara, CA 95051
(408) 727-7272
SECTION 2

INSTALLATION

2.1 Unpacking and Inspection

Upon receiving the instrument, inspect the packing box and instrument for signs of possible shipping damage. After installation, operate the instrument in accordance with the procedures of Section 3 of this manual. If the instrument is damaged or fails to operate properly, file a claim with the transportation company, or with the insurance company if insured separately.

2.2 Power Requirements

The model 844 is factory wired to operate, from either a 117 volt or 230 volt source. The line frequency must be between 50 and 400 Hz. Maximum Power required is 40 watts.

2.3 Installation and Connection

(A) Mount the Model 844 in the equipment rack. (B) AC Power is applied to rear of the unit through J13. Either 117 VAC or 230 VAC are required for proper operation.

CAUTION

THE CIRCUIT BOARD BELOW THE FUSE IN J13 MUST READ THE VOLTAGE TO BE USED AS PRIMARY POWER. 117 VAC OR 230 VAC. THIS BOARD MAY BE REMOVED AND TURNED FOR PROPER VOLTAGE.

CAUTION

FUSE VALUES DIFFER AT THE VARIOUS OPERATING VOLTAGES AND MUST BE CHANGED WHEN CHANGING INPUT POWER CONNECTION IN J13.

(C) For continuous monitoring, connect FM antenna to low level R² input J11 on monitor rear panel.
(D) For off air (high Level) measurements connect RF high level input (1 to 10 V RMS) to high level RF input J12 on 844 rear panel. Adjust RF input set until green LED on rear panel is on.

NOTE

HIGH LEVEL INPUT REQUIRES PROPER CRYSTAL TO BE INSTALLED IN THE MONITOR

2.4 Connection of Accessory Equipment
2.4.1 Connection of Model 730A SCA Monitor
Connection to Model 730A SCA Monitor is made by taking composite output at J4 (to SCA Monitor) and applying to the Model 730A.

2.4.2 Connection of Model 804 Remote Metering Panel
Connection to Model 804 Remote Metering Panel is made to TB1 on 844 Rear Panel.

2.5 Field Installation of Options

TO BE PUBLISHED.
SECTION 3
OPERATION

3.1 General

The Model 844 FM Modulation and Stereo Monitor enables FM station personnel to monitor FM and Stereo Transmissions to comply with FCC rules and regulations. The monitor provides all the test functions required for modulation and stereo proof-of-performance tests. When used with model 730A SCA Monitor SCA proof-of-Permanence test may also be made.

Monitor displays the modulation percentage of the selected carrier being monitored. Two front-panel LED's provide a flashing indication when the modulation percentage exceeds a pre set limit on either positive or negative peaks. Right and left channel can be monitored simultaneously or the LEFT/TEST meter can monitor any of the other test functions of the monitor.

3.2 Turn-On and Warm-Up

The monitor contains no On-Off switch, and is on whenever it is plugged into the appropriate power source. Indications of the unit having power on are 1) Meter lights on. 2) One of the two green channel select LED's on. 3) Peaks/Min digital readout on.

3.3 Controls, connectors and Indicators

3.3.1 Model 844 Front Panel (See Fig. 3-1)

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>TOTAL MODULATION meter</td>
<td>Indicates modulation percentage of carrier being monitored.</td>
</tr>
<tr>
<td>2.</td>
<td>&quot;-&quot; PEAKS lamp</td>
<td>&quot;-&quot; peaks lamp shows whenever the negative modulation peaks exceed the percentage which the thumb-wheel switches has been set.</td>
</tr>
<tr>
<td>3.</td>
<td>PEAK CALI adjust</td>
<td>Calibrate the &quot;-&quot; and &quot;+&quot; peak lamps on point.</td>
</tr>
</tbody>
</table>
4. "+" PEAK lamp

"+" peak lamp shows whenever the positive modulation peaks exceed the percentage which the thumbwheel switches has been set.

5. Thumbwheel switches

Sets the percent of modulation at which the "+" and "-" peak lamps on point.

6. PEAK/MIN counter

Counts the number of times the peak lamps on over a given period.

7. LEFT/TEST meter

Indicates the function switched in by the LEFT/TEST METER function switches. Input to this meter is always applied through a selected attenuator. Measurements can be made down to 70 dB below 100%.

8. RIGHT Channel meter

Indicates right channel modulation independent of selected function switch position.

9. RIGHT OUTPUT jack

Right channel signal supplied to front panel BNC jack.

10. LEFT/TEST OUTPUT jack

Signal selected by LEFT/TEST METER function switches is supplied to front panel BNC jack.

11. STEREO PILOT lamp

Lights when 19 KHz pilot signal is present.

12. LEFT/TEST METER function

Selects the function and attenuation to be indicated on the LEFT/TEST METER up to four switches may be in uses at a time.

1) "+" or "-" select positive or negative modulation peaks.

2) Deemph switches in the deemphasis circuit.
13. **METER CAL adjust**

   Used to calibrate the all three meters to 100% modulation.

14. **PHASE CAL adjust**

   When the phase cal switch is depressed the phase cal control can be adjusted for a null on the LEFT/TEST meter. To indicate that the internal 38 KHz signal is in phase with the 19 KHz pilot signal. This insures that the best channel separation has been attained so that the best stereo measurements can be made.

15. **ANT INPUT LEVEL**

   Indicates the level of the RF from the antenna on the total modulation meter. (Push to read switch).

16. **PEAKS/MIN RESET**

   Resets the peaks min counter.

17. **CHAN SELECT switch**

   Allow selection of one of the two channels selected by the programmable thumbwheel switches.

18. **Channel Indicator lights**

   Lighted lamp indicates which frequency has been selected. Read thumbwheel switches.

19. **FREQ ADJ**

   Control to adjust the frequency of the 9.80 KHz oscillator circuit.

20. **FREQ COUNTER**

   Selects from 3 frequencies which can be supplied to the freq. counter BNC on front panel: 1) 900 KHz, 2) 9.80 KHz and 3) 19.0 KHz.
### 3.3.2  
**Model 844 Rear Panel** (See Fig. 3-2)

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.</td>
<td>RF INPUT-LOW LEVEL jack</td>
<td>Used to connect an antenna input with signal level between 10 and 100 MV (75 ohm)</td>
</tr>
<tr>
<td>24.</td>
<td>HI LEVEL RF INPUT SET Lamp</td>
<td>Lamp indicates when the high level RF input level has properly been adjusted.</td>
</tr>
<tr>
<td>25.</td>
<td>RF INPUT-HIGH LEVEL jack</td>
<td>Used to connect signal input with level between 1 Volt to 10 Volts. (50 ohms)</td>
</tr>
<tr>
<td>26.</td>
<td>HIGH LEVEL RF INPUT SET control</td>
<td>Control adjusts attenuation to the high level RF input for proper operating level.</td>
</tr>
<tr>
<td>27.</td>
<td>FUSE and AC VOLTAGE SET</td>
<td>Fuse holder and terminal board which allows setting of AC input voltage to 120 VAC or 240 VAC.</td>
</tr>
<tr>
<td>28.</td>
<td>AC POWER CORD CONNECTOR</td>
<td>Connect 120 VAC or 240 AVC to monitor.</td>
</tr>
<tr>
<td>29.</td>
<td>High level operating frequency</td>
<td>Shows the RF input - high level preset frequency (To change this frequency, a internal crystal must be replaced for high level input only).</td>
</tr>
<tr>
<td>30.</td>
<td>COMPOSITE jack</td>
<td>Allows connection of the composite signal to external monitoring.</td>
</tr>
<tr>
<td>31.</td>
<td>To SCA Monitor jack</td>
<td>Provides composite output to drive a model 730A SCA monitor.</td>
</tr>
</tbody>
</table>
32. MAIN CH. DE-EMPHASIS  Provides composite output which has been passed through a 75 µs de-emphasis network for external monitoring.

33. 75µs DE-EMPH Switch  Allows the 75µs DE-EMPHASIS circuit to be switched into the LEFT and RIGHT channel demodulated output.

34. RIGHT AND LEFT output, TB3  Provides demodulated left and right channel information.

35. Composite and alarm outputs, TB2  Provides a balanced composite output signal and the outputs for the optional alarm circuits.


37. EXT COMPOSITE IN Jack  Provides metering capabilities for monitoring an external composite signal (8Vpp)

38. Composite level Control  Adjust the Level of the EXT Composite Input.

39. Composite Select Switch  Select internal External Composite Signal to be applied to the metering circuits.

3.4 Calibration

Calibration of the meter circuits and peak detector are the only calibration required for the model 844.
3.4.1 Meter Calibration

Set up:
1) Meter Cal Button in
2) De Emph Button out
3) Odb/100% Button in
4) Total Mod Button in

Adjust Meter Cal Control for 100% or Odb on the LEFT/TEST meter.

3.4.2 Peak Modulation Calibration

1) Set Meter Cal Push Button Switch to the in position.
2) Set % peak to 100.
3) Set peak duration to 0.
4) Adjust Peak Cal Control until "+" and "-" lights are on and peaks/min is in the constant count mode.
5) Set % peak to 101.
6) Press the PEAKS/MIN RESET Switch.
7) If "-" and "+" lights are on and PEAKS/MIN is in the constant count mode, readjust PEAK CAL until light go out and counter stops counting. (A delay of 2 sec. may be encountered.)
8) Repeat steps 2 through 7 as required.

3.5 Measurements

Set thumbwheel switches to desired frequency and set the "-" or "+" push button in as required.

3.5.1 Main Channel Modulation (L+R)

Press the L+R function switch and the odb/100% attenuation switch. The LEFT/TEST meter will indicate the main channel modulation directly in percent. A fully modulated right or left channel only signal will indicate 45% on the meter. A fully modulated L=R signal will indicate 90% and a fully modulated L=-R signal will indicate 0.

3.5.2 Stereo Subchannel Modulation

Press the L-R function switch and the odb/100% attenuation switch. The LEFT/TEST meter will indicate the stereo subchannel modulation directly in percent. A fully modulated right or left channel only will indicate 45% on the meter. A fully modulated L=R signal will indicate 90% and a fully modulated modulation L=R signal will indicate 0.
3.5.3 Pilot Carrier Modulation

Press the 19KHz function switch and the -20db/10% attenuation switch. The LEFT/TEST meter will indicate the pilot modulation level, with the 100% mark on the meter denoting 10% modulation. Correct pilot modulation level is between 8% and 10%. This measurement can be made in the presence of program modulation.

3.5.4 38 KHz Subcarrier Suppression

a. Apply a modulating between 5 KHz and 15 KHz to the left channel of the transmitter under test, and adjust its level to indicate 90% on the LEFT/TEST meter.

b. Press the 38 KHz function switch.

c. With the meter attenuation switches, select an attenuation that provides a usable reading on the LEFT/TEST meter. The 38 KHz subcarrier suppression is then the algebraic sum of the meter reading and the attenuation inserted. For example, a meter reading of -2 dB with the -50 dB meter attenuation switch depressed denotes a 38 KHz subcarrier suppression of 52 dB below 100% modulation.

3.5.5 Stereo Separation

3.5.5.1 Stereo Channel Separation (Left Channel Modulated)

a. Apply a modulating signal between 50 Hz and 15 KHz to the left channel of the transmitter under test and adjust its level to indicate 90% on the LEFT TEST meter.

b. Press the R function switch.

c. With the meter attenuation switches, select an attenuation that provides a usable reading on the LEFT/TEST meter.

d. The channel separation is the algebraic sum of the meter reading and the attenuation inserted, less approximately 1 dB (0.915 dB) to account for the 90% left-channel modulation level. For example, a meter reading of -2 dB with the 1%/-40 dB meter attenuation switch depressed denotes a stereo channel separation of 41 dB.
3.5.5.2 Stereo Channel Separation (Right Channel Modulated)

a. Press the R function switch.

b. Press the 100%/0 dB meter attenuation switch.

c. Apply a modulating signal between 50 Hz and 15 KHz to the right channel of the transmitter under test and adjust its level to indicate 90% on the LEFT/TEST meter.

d. Press the L function switch.

e. With the meter attenuation switches, select an attenuation that provides a usable reading on the LEFT/TEST meter.

f. The channel separation is the algebraic sum of the meter reading and the attenuation inserted, less 1 dB to account for the 90% right-channel modulation level.

3.5.6 Main Channel to Subchannel Crosstalk

a. Press the L+R function switch and the 100%/0 dB meter attenuation switch.

b. Apply an L+R modulating signal to the transmitter under test and adjust the level for a 90% reading on the LEFT/TEST meter.

c. Press the L-R function switch.

d. With the meter attenuation switches, select an attenuation that provides a usable reading on the LEFT/TEST meter.

e. The crosstalk measure is the algebraic sum of the selected attenuation and the meter reading, less 1 dB to account for the 90% modulation setting.

3.5.7 Subchannel to Main Channel Crosstalk

a. Press the L-R function switch and the 100%/0 dB meter attenuation switch.

b. Apply an L-R modulating signal to the transmitter under test and adjust the level for 90% reading on the LEFT/TEST meter.

c. Press the L+R function switch.
d. With the meter attenuation switches, select an attenuation that provides a usable reading on the LEFT/TEST meter.

e. The crosstalk measured is the algebraic sum of the selected attenuation and the meter reading, less 1 dB to account for the 90% modulation setting.

3.5.8 FM Noise

a. Apply L+R Modulating signal of the transmitter under test and adjust the level for a 90% reading on the LEFT/TEST meter.

b. Turn off all transmitter modulation.

c. Press total modulation switch.

d. With the meter attenuation switches, select an attenuation that provides a usable reading on the LEFT/TEST meter.

e. The algebraic sum of the selected attenuation and the meter reading is the FM signal to noise ratio. 

----NOTE---- 
IF A DE-EMPHASIZED READING IS REQUIRED, THE DE-EMPH FUNCTION SWITCH MUST BE DEPRESSED.

3.5.9 Distortion

a. Apply a modulating signal to the transmitter channel to be measured.

b. Connect a distortion analyzer to the appropriate rear panel connector. RIGHT channel connector J4, LEFT channel connector J5, if de-emphasis is desired; or RIGHT channel connector J6, LEFT channel connector J7, if de-emphasis is not required.

3.5.10 Pilot Frequency

a. Connect frequency counter to the "FREQ. COUNTER" jack on the monitor front panel.

b. Place the frequency selector switch to the 19.0 KHz position. The transmitted pilot frequency is counted directly on the counter.
3.5.11 Peak Modulation

Peak modulation is directly read on the peak light circuit. Peak modulation can be determined by adjusting the thumbwheel switches so that lights and counter just come on.

3.5.12 Incidental and Residual AM

a. Apply signal of transmitters under test to the RF INPUT HI LEVEL jack.

b. Adjust HI LEVEL INPUT SET until the SET LED ON lamp lights.

c. Depress AM NOISE function switch.

d. With the meter attenuator switches select an attenuation that provides a usable reading on the LEFT/TEST meter.

e. The algebraic sum of the selected attenuation and the meter reading is the AM noise level.  
   ----NOTE----
   THE AM NOISE CAN BE READ FROM THE HIGH LEVEL RF INPUT ONLY.

3.5.13 Multipath Noise

a. Depress the MULTIPATH function switch.

b. With the meter attenuation switches select an attenuation that provides a usable reading on the LEFT/TEST meter.

c. The algebraic sum of the selected attenuation and the meter reading is the multipath noise level.
   ----NOTE----
   MULTIPATH NOISE CAN BE READ FROM THE LOW LEVEL RF INPUT ONLY.
3.6 Absence of Modulation Alarm (Optional)

The alarm is triggered when the composite signal drops below 30 percent modulation for a period of time between 2 seconds and 30 seconds. Time is a user adjustment. The output supplied is an open collector circuit that supplies a ground when alarm is present. Output is available on rear panel terminal board.

3.7 Carrier Fail Alarm (Optional)

The alarm is triggered when the RF carrier drops below 250 V. The output supplied is an open collector circuit that supplies a ground when the alarm is present. Output is available on TB2 on the rear panel.

3.8 Use of Remote Metering Panel. Model 804

The cable supplied with the Remote Metering Panel is connected to a Terminal Board on the monitor rear panel and will duplicate the flasher and meter reading appearing on the monitor.
<table>
<thead>
<tr>
<th>CKT. REF.</th>
<th>DESCRIPTION</th>
<th>TFT PART #</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>CAP CERAMIC CK05 .01MFD</td>
<td>1015-0002</td>
</tr>
<tr>
<td>C2</td>
<td>CAP MICA 3PF</td>
<td>1001-0030</td>
</tr>
<tr>
<td>C3</td>
<td>CAP CERAMIC CK05 .1MF</td>
<td>1015-0001</td>
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<td>CAP CERAMIC CK05 .1MF</td>
<td>1015-0001</td>
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<td>1015-0010</td>
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<td>CAP CERAMIC CK05 .01MFD</td>
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**A1 RF Preselector BDASSY**

**Assembly #:** 6608-3403  
**Rev. #:** C

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**Rev. #:** B

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# A3 FM DEMODULATOR BD

## LIST OF MATERIALS

**ASSEMBLY # 6608-3405**

**REV. # C**

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**ASSEMBLY # 6608-3405**  
**REV. # C**

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## A4 FM Stereo Board

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**A6 DISPLAY DRIVER**

**ASSEMBLY #: 6608-3410**

**REV.: B**

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3. FOR PCB SEE 1600-3404 (LATEST REV.)
2. FOR SCHEMATIC SEE 6601-3404 (LATEST REV.)
1. FOR MATERIAL LIST SEE 6605-3404 (LATEST REV.)

NOTES: UNLESS OTHERWISE SPECIFIED

- BEND LEADS
90° AS SHOWN

- SIDE VIEW

- DETAIL A

- MOUNT ON CIRCUIT SIDE
SEE DETAIL A
2. FOR PCB SEE 1600-3409 (LATEST REV.)
3. FOR SCHEMATIC SEE 6601-8409 (LATEST REV.)
4. FOR MTL LIST SEE 6608-4009 (LATEST REV.)

NOTES: UNLESS OTHERWISE SPECIFIED
3. FOR PCB SEE 1600-3411 (LATEST REV.)

2. FOR SCHEMATIC SEE 6608-3411 (LATEST REV.)

1. FOR MTL. LIST SEE 6608-3411 (LATEST REV.)

NOTES, UNLESS OTHERWISE SPECIFIED,