

Price \$6.00

**Service Manual  
AM/FM Stereo Receivers**

**380R/390R**



 **SCOTT®**  
The Name to listen to.

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## CAUTION NOTICE

The following safety precautions must be followed to assure continued reliability and safety against fire and shock hazard:

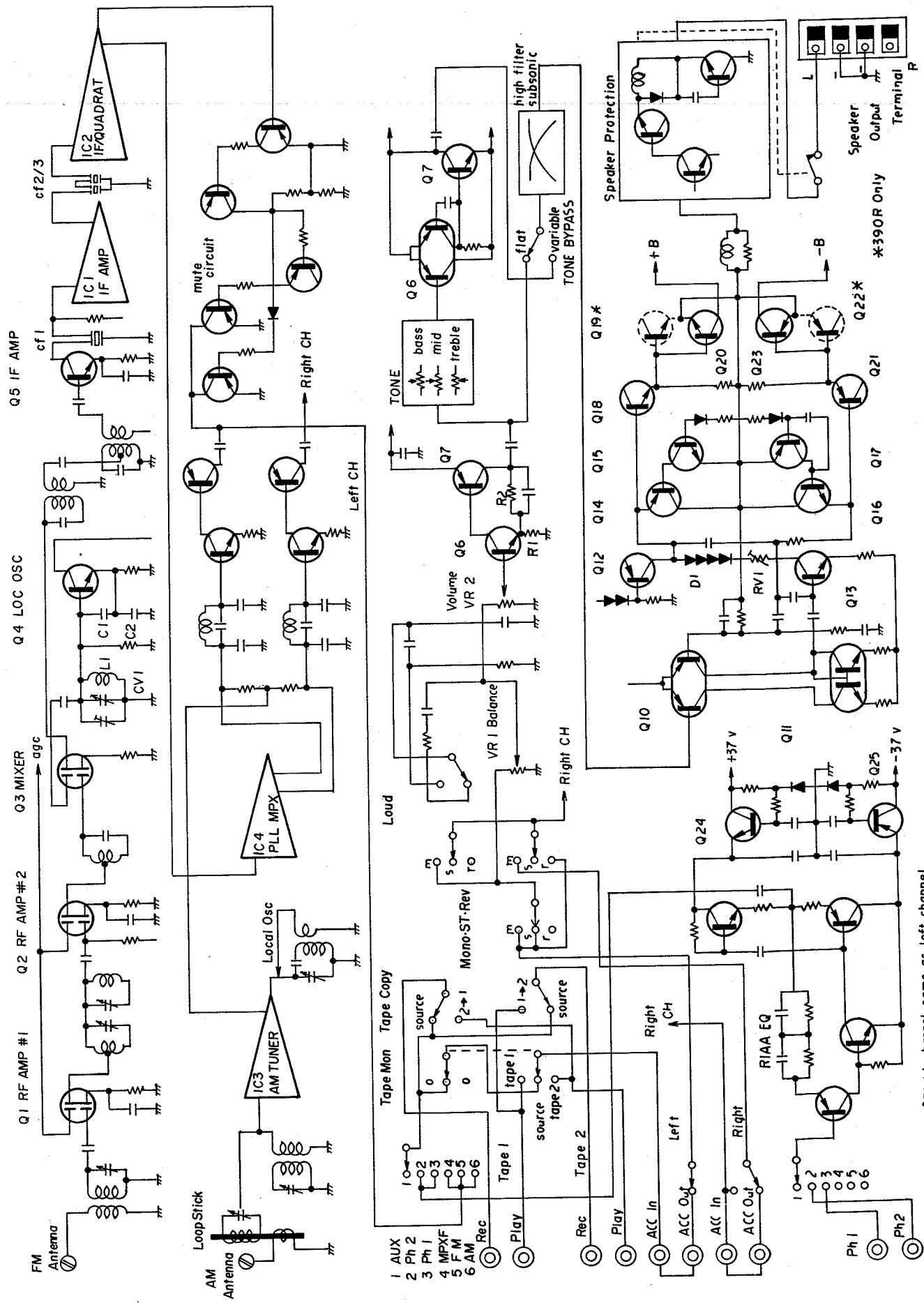
1. Replacement parts used during servicing of this appliance must have identical characteristics as those offered and recommended by H. H. Scott, Inc.
2. A dielectric test is to be performed on each appliance following the re-assembly and before returning the unit to the customer.
3. The dielectric test to be performed on H. H. Scott, Inc. electric components serviced in the United States and Canada for use in these countries shall consist of not less than the following:
  - 1) A dielectric tester designed to supply not less than 1100 volts at 60 Hz and employing leakage current indicator(s), is to be used.
  - 2) The tester is to be connected per the instructions enclosed with the instrument, or as follows:
    - a. The tester is connected to the power line receptacle and the power switch is turned on.
    - b. Sufficient time is allowed for the tester supply to stabilize and then the output voltage is adjusted for 1080V.
    - c. Leads of the tester, usually marked GND and HV, are connected between chassis ground and both blades of the male plug of the power cord.
    - d. Switch tester to "test" and observe leakage indicator.  
Leakage current must not exceed 0.5 mA.

\* Dielectric tests made by service personnel in countries other than USA and Canada must use test equipment and procedures specified by the safety agency serving that country.

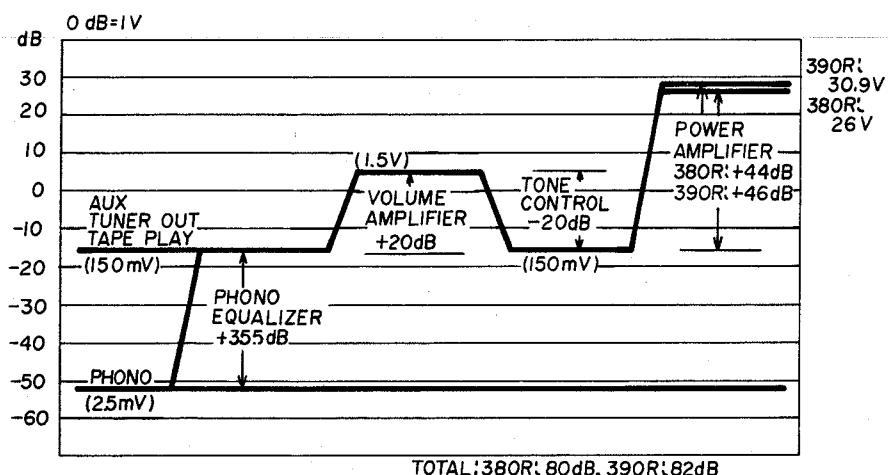
# SPECIFICATIONS

|  |  |
|--|--|
| <b>FM Section</b>  |  |
| <b>Tuning Range</b>  | <b>THD at 10 Watts, 20 Hz – 20 kHz</b>   |
| 87.5 to 108 MHz  | 0.015%   |
| <b>IHF Sensitivity</b>   | <b>IMD at Rated Output</b>   |
| 9.8 dBf/1.7 $\mu$ V  | 0.03%  |
| <b>50 dB Quieting Sensitivity</b>  | <b>Input Sensitivity</b>   |
| Mono: 15.6 dBf/3.3 $\mu$ V   | Phono 1: 2.5 mV/5 mV   |
| Stereo: 35.6 dBf/33 $\mu$ V  | Phono 2: 2.5 mV/5 mV   |
| <b>S/N Ratio at 65 dBf</b>   | Others: 150 mV   |
| Mono: 80 dB  |  |
| Stereo: 75 dB  |  |
| <b>Distortion at 65 dBf</b>  | <b>S/N Ratio Weighted, Input Shorted</b>   |
| Mono: 0.1%   | Phono (re: 10 mV RIAA 1 kHz): 90 dB  |
| Stereo: 0.2%   | Others: 95 dB  |
| <b>Frequency Response <math>\pm 2</math> dB</b>  | <b>Frequency Response</b>  |
| 25 Hz – 15 kHz   | Phono RIAA 20 Hz – 20 kHz: $\pm 0.5$ dB  |
| <b>Capture Ratio</b>   | Others at 1 watt 20 Hz – 20 kHz: $\pm 0.5$ dB  |
| 1.0 dB   |  |
| <b>Alternate Channel Selectivity</b>   | <b>Phono Overload</b>  |
| 80 dB  | 300/600 mV   |
| <b>Image Rejection</b>   | <b>Tone Control Range</b>  |
| 90 dB  | Bass: $\pm 10$ dB at 100 Hz  |
| <b>Stereo Separation at 1 kHz</b>  | Mid: $\pm 6$ dB at 1 kHz   |
| 50 dB  | Treble: $\pm 10$ dB at 10 kHz  |
| <b>Spurious Response Rejection</b>   | <b>Filters</b>   |
| 100 dB   | High: 8 kHz 12 dB/oct./12 kHz* 12 dB/oct. (*390R only)                                   |
| <b>Subcarrier Rejection</b>  | Subsonic: 18 Hz 12 dB/oct./40 Hz* 12 dB/oct. (*390R only)                                |
| 74 dB  |  |
| <b>IF Rejection (98 MHz)</b>   | <b>Loudness Compensation at <math>-30</math> dB</b>                                      |
| 100 dB   | +3.5 dB at 10 kHz  |
|  | +7 dB at 100 Hz  |
| <b>AM Section</b>  | <b>Channel Separation</b>  |
| <b>Tuning Range</b>  | (Phono) 1 kHz: 70 dB   |
| 515 to 1620 kHz  | (Others) 1 kHz: 75 dB  |
| <b>Usable Sensitivity (bar ant.)</b>   | <b>Crosstalk (1 kHz)</b>   |
| 150 $\mu$ V/m  | 75 dB  |
| <b>S/N Ratio</b>   | <b>Damping Factor (1 kHz)</b> $8\Omega$  |
| 55 dB  | $>100$   |
| <b>Selectivity (1 MHz)</b>   | <b>General Specifications</b>  |
| 50 dB  | <b>Line Voltage and Frequency</b>  |
| <b>Image Rejection</b>   | US/Canada: 117V AC 60 Hz   |
| 60 dB  | Europe: 100V/117V/220V/240V switchable, 50/60 Hz   |
| <b>Amplifier Section</b>   | <b>Power Consumption</b>   |
| <b>Minimum continuous RMS output power per channel, both channels driven into 8 ohms from 20 Hz – 20 kHz with no more than rated THD</b> | US/Canada: 240 Watts (320 Watts)   |
| 85 watts (120 watts)   | Europe: 630 Watts (800 Watts)  |
| <b>THD at Rated Output</b>   | <b>Dimensions – H/W/D</b>  |
| 0.03%  | 6"/20-3/4"/13-3/4"/152 mm/530 mm/330 mm<br>(6-1/2"/22-7/8"/15-3/4"/165 mm/580 mm/400 mm) |
|  | <b>Net Weight</b>  |
|  | 38.6 lbs/17.3 kgs (49.0 lbs/22.3 kgs)  |

# BLOCK DIAGRAM



# AUDIO LEVEL DIAGRAM



## CIRCUIT DESCRIPTION

### FM Front End (Refer to Block Diagram)

The FM front end consists of a tuning circuit using a five gang variable capacitor, two tuned RF amplifier stages, (Q1 and Q2), a converter stage (Q3) and a local oscillator (Q4). The tuned RF amplifiers provide optimum gain and selectivity characteristics to gate 2 of the converter stage. Gate 1 of the converter stage is used for injection of the local oscillator

signal for the desired conversion gain with good linearity. Output of the converter stage is connected to the first IF transformer (T6). The local oscillator operating at 10.7 MHz above the incoming signal is connected in a Colpitts configuration in which the resonant frequency is determined by the tank circuit consisting of CV8, CT8 and T5.

### FM IF Section

The FM IF stage is composed of a transistor amplifier Q1, 3 dual element ceramic filters, and 2 integrated circuits. IC1,  $\mu$ PC555H a differential amplifier to provide an extra stage of gain. IC2, HA11225 containing the IF limiter amplifiers, meter drive and muting circuits, and a quadrature detector (see block diagram, page 6). The IF amplifier is composed of three direct-coupled amplifier/limiter stages. The limiter output, which is fed directly to a quadrature input, also appears at pin 8, where it is phase shifted through L2 and re-applied to the other quadrature input at pin 9. Two audio signals opposite in phase are obtained from the quadrature

detector. These signals are converted to single ended outputs by two separate amplifiers. The output of the first amplifier (pin 7) is a DC level which varies with detuning and used as the drive for the center tune meter. The output from the second amplifier (pin 6) is the composite audio signal which is fed directly to pin 2 of multiplex IC. The drive for muting appears at pin 12, and provides a positive voltage in the event of low IF input level or detuning greater than  $\pm 70$  kHz. Signal strength meter drive at pin 13 is derived from 3 peak detectors which sense and sum the signal levels of the three IF amplifiers.

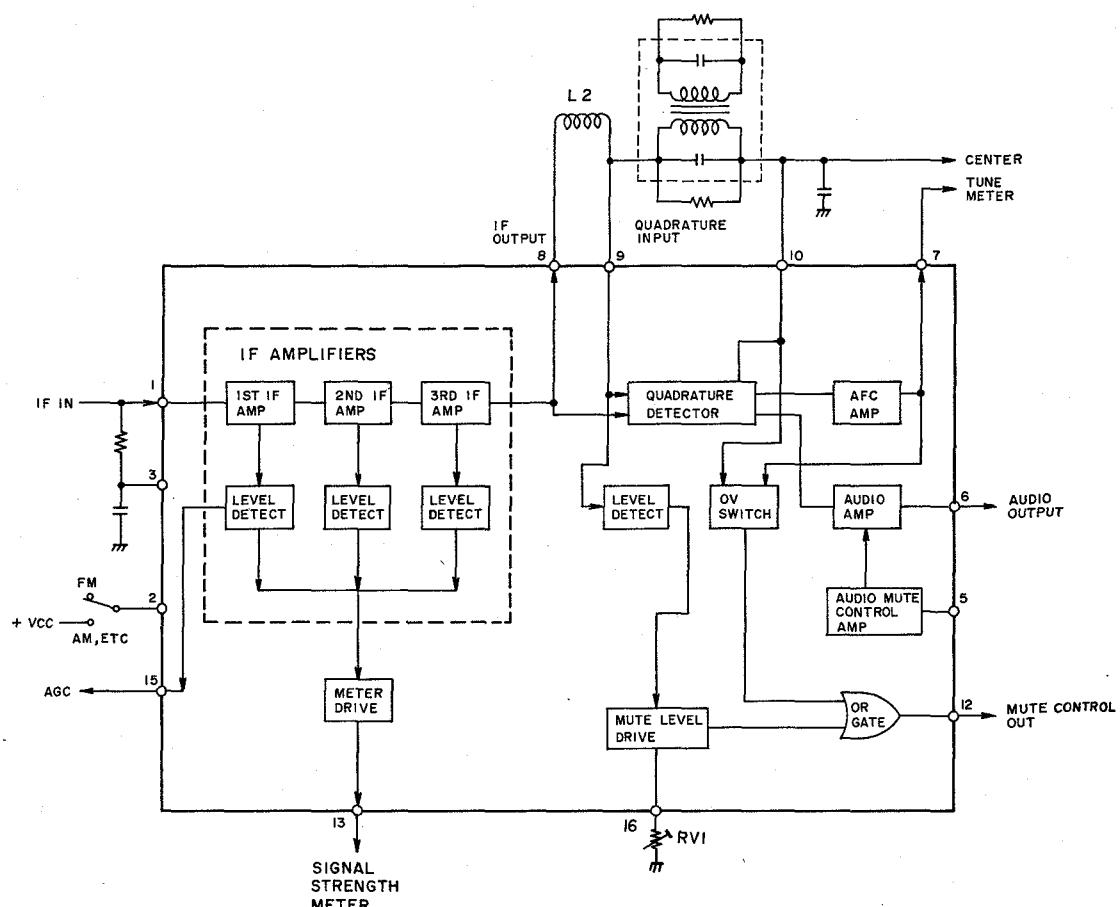
### Multiplex Decoder

The multiplex decoder IC (HA1196) is functionally divided into 2 sections: The phase locked loop (PLL) signal generator, and the stereo demodulator. The PLL consists of a 76 kHz voltage controlled oscillator (VCO) followed by two frequency dividers, producing 38 kHz and 19 kHz. The phase of this signal is compared with the phase of the incoming pilot signal and a difference signal is created which corrects the VCO and synchronizes the VCO signal to the pilot signal. Since higher order harmonics are contained in the phase difference signal, a low pass filter is used to eliminate these harmonics. A

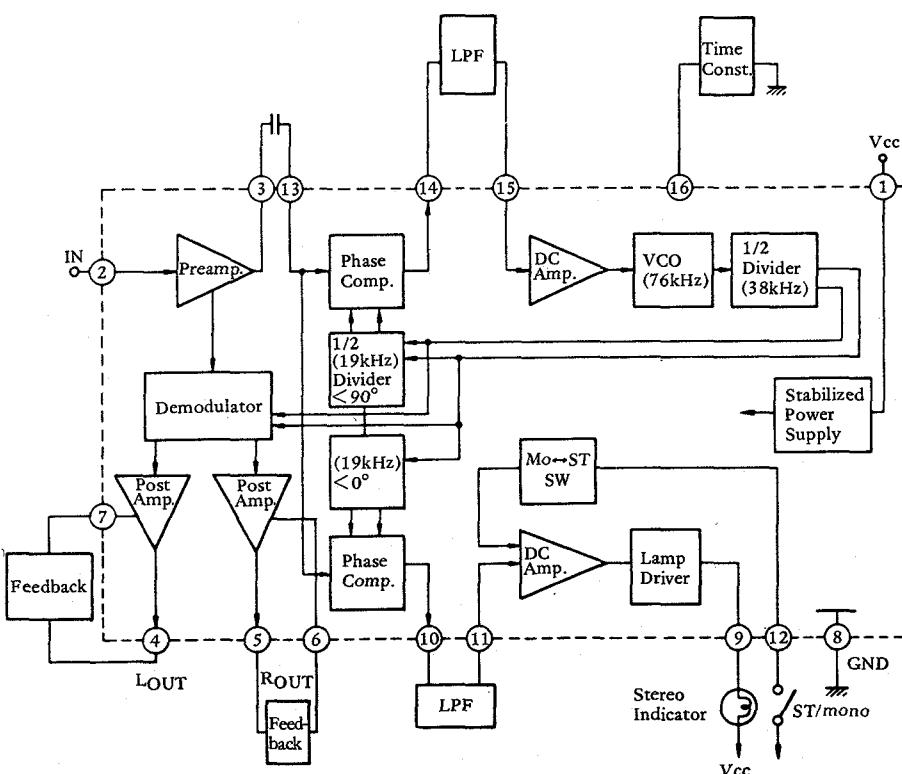
second phase comparator is used to sense when the PLL is locked to a pilot signal. The output of this comparator triggers the stereo indicator and connects the 38 kHz switching signal to the demodulator. This control circuit will be blocked when a positive voltage appears on pin 12 since it is connected to the muting signal of the FM IF. Thus, when the conditions for muting exist, pin 12 is positive and the unit is locked in mono operation.

The demodulator circuit consists of two differential amplifiers operating in a switching mode controlled by the phase

## Block Diagram of IC2



## Block Diagram of IC4

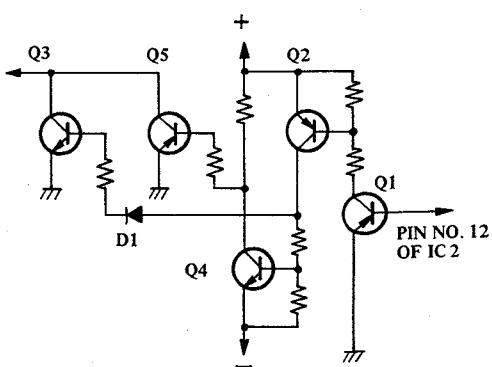


locked 38 kHz signal which demodulates the composite incoming signal into left and right outputs. These signals are connected to negative feedback audio amplifiers in which the gain

is set by external resistors. From the IC, the signal is fed to the 19 kHz filters, then to the discrete muste circuit and the output jacks.

### Mute Circuit

The mute drive block integrated into IC2 provides a control voltage at pin 12 for the external mute circuit comprised of Q7, 8, 9, 10, 11, 12 and 13. With reference to the simple schematic shown, when a plus DC appears at the base of Q1, Q1 will conduct, this in turn activates Q2 and, through diode D1, Q3 will conduct, shorting the audio output of the tuner section to ground. An additional feature of this mute circuit is the use of Q4 and Q5 to eliminate impulse type noise when the unit is switched on or off. Under normal operating conditions Q5 is not conducting, however if the plus or minus supply voltages are upset Q5 will conduct muting the audio output.



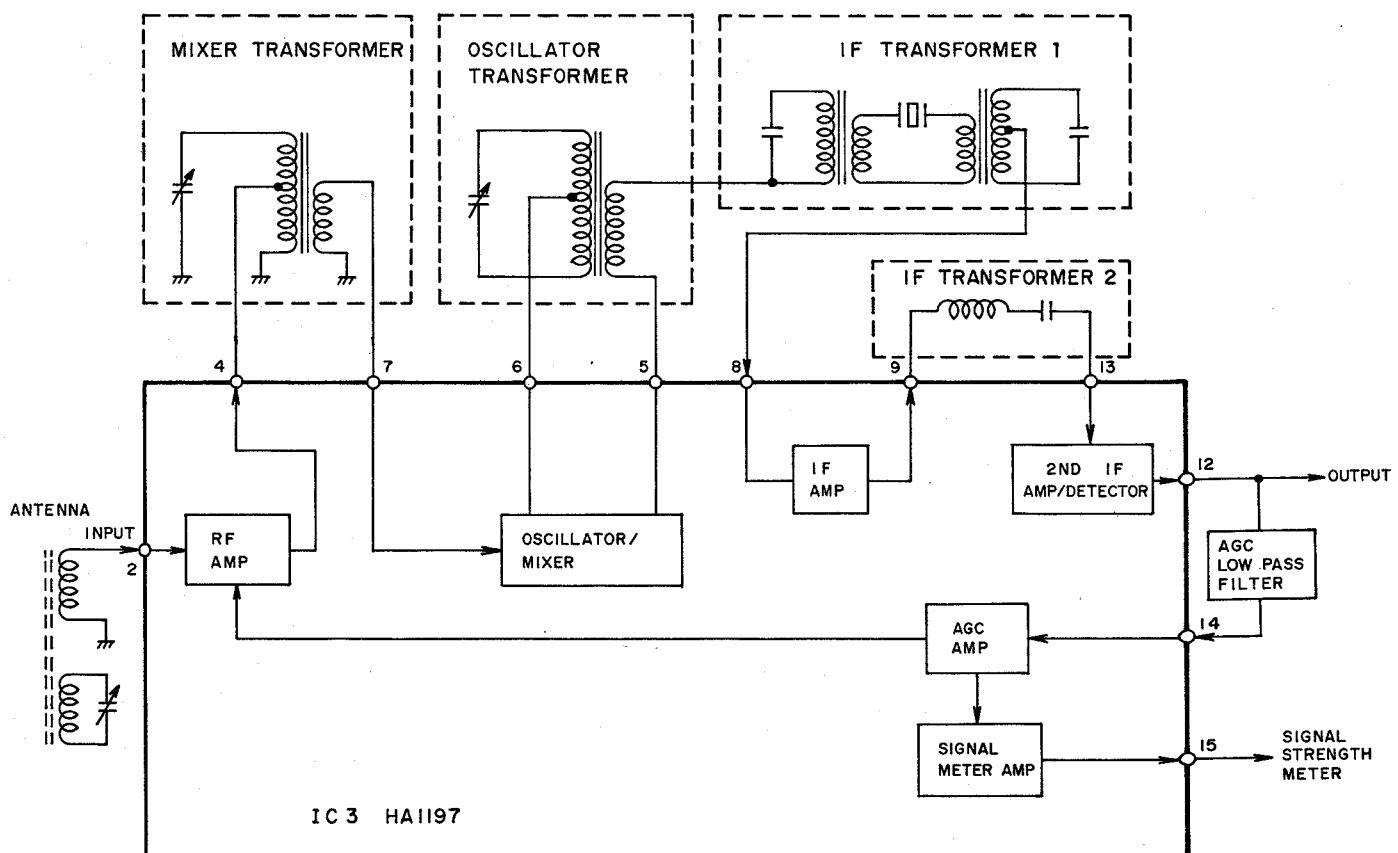
### AM Tuner Section

The AM incoming signal received at the AM antenna enters the RF section of IC3, is amplified and coupled to the converter stage, here the signal is changed to the universal 455 kHz intermediate frequency.

The local oscillator operating 455 kHz above the incoming tuned signal is achieved in the converter block in the IC with

externally connected T6.

The 455 kHz signal is coupled, through two stages of IF amplification, and to the detector, the detector output then appears at pin 12 as audio information. The signal is then conducted through the low pass filter to further remove the 455 kHz component.

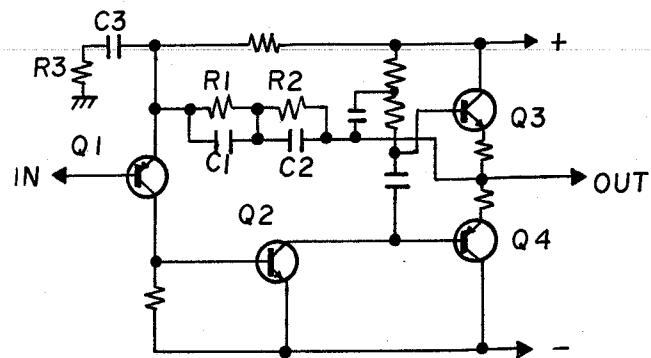


## Phono Preamplifier

This is a negative feedback type of phono equalizer, it consists of four low noise transistors per channel. Open loop gain of the circuit is 100 dB. Negative feedback for gain adjustment and equalization is provided by resistors R1, and R2 and capacitors C1 and C2 connected between the complementary amplifier output and emitter of Q1 giving a gain of 35.5 dB @ 1 kHz.

Units produced for use in Europe include circuitry to provide playback equalization conforming to IEC standards publication 98 amended September 1976 ie: +16.3 dB @ 50 Hz, -13.7 dB @ 10 kHz. Units produced for North America provide playback equalization conforming to RIAA standards ie: +16.9 dB @ 50 Hz, -13.7 dB @ 10 kHz.

Additional rolloff below 30 Hz required by IEC standard is provided by C3. The circuit is powered by a split power supply of  $\pm 37V$  to provide an over load capability of greater than 300 mV at 1.0 kHz.



## Volume Amplifier

The signal from the Volume control, VR2, is amplified 20 dB by the directly connected amplifier stage consisting of Q6 and

Q7 (refer to the block diagram, page 4). Gain is set by the ratio of R1 to R2.

## Tone Control

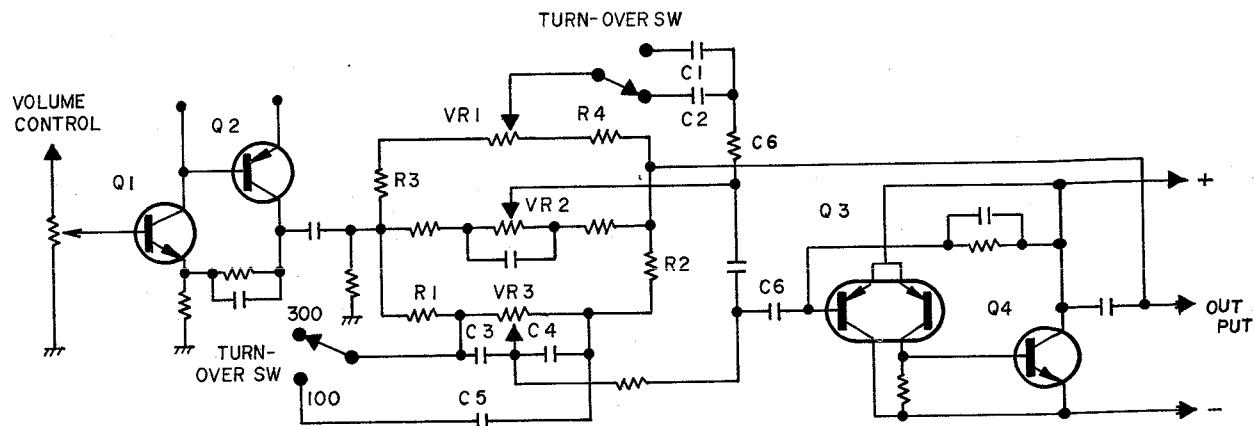
The tone control is a negative feedback type which utilizes common emitter amplifier Q3 and emitter follower Q2 as the active elements. That is, the gain of Q3 is controlled by the tone control circuitry.

**Mid Tone Control:** At 1 kHz the bass and treble controls have little effect on the gain since the impedance of capacitor C1 or C2, is high which effectively removes VR1 from the circuit. Impedance of capacitors C3 and C4 is low, effectively shorting VR3 thus at mid range frequencies near 1 kHz the gain is mainly determined by the position of VR2.

**Bass Tone Control:** As the frequency decreases below 1 kHz, the impedance of C3 and C4 increases proportionally. At very low frequencies, C1 or C2, and C6 are effectively open, removing VR1 and VR2 from the circuit. Thus at low frequencies, the gain is mainly determined by the position of

the Bass tone control VR3. Rotating towards R1 will boost the low frequencies, while turning it towards R2 will cut the bass. The frequency band over which the Bass tone control operates is selectable by adding C5 in parallel with VR3 (with C5: 20 – 100 Hz; without C5: 20 – 300 Hz).

**Treble Tone Control:** At high frequencies, VR2 and VR3 are effectively short circuited. At these frequencies, however, C1 or C2 impedance decreases, so that VR1 becomes the main control of the circuit gain. Rotating VR1 towards R3 will boost the treble, while turning it towards R4 will cut the treble response. The frequency band over which the Treble tone control operates is selectable by changing C1 or C2, alternatively. (with C1, 1200 pF: 8000 – 20000 Hz; with C2, 3900 pF: 3000 – 20000 Hz).



## Power Amplifier (See Block Diagram, page 4)

This circuit is an OCL, fully complementary amplifier. The input stage consists of a differential amplifier (Q10 + 11) and a voltage amplifier (Q13). The voltage amplifier provides voltage swing to nearly full plus and minus supply. Current gain is then provided by the fully complementary Darlington sets of Q18 + Q19 (390R only) + Q20 for the positive swing, Q21 + Q22 (390R only) + Q23 for the negative swing. The output stage bias is set by D1 and RV1.

## Relay Protection Circuit

This circuit protects the speakers from the possibility of DC potential at the amplifier outputs, as well as eliminating transients during turn on or turn off.

**Turn On/Off:** When the unit is first switched on, Q2 quickly turns on, holding Q3 off. After several seconds, determined by the charging time of C1 through R6, Q2 turns off, thus turning on Q2 and activating the relay which connects the audio output to the speakers. At turn off, Q4 immediately turns on, which turns Q2 on and Q3 off, instantly opening the speaker relay.

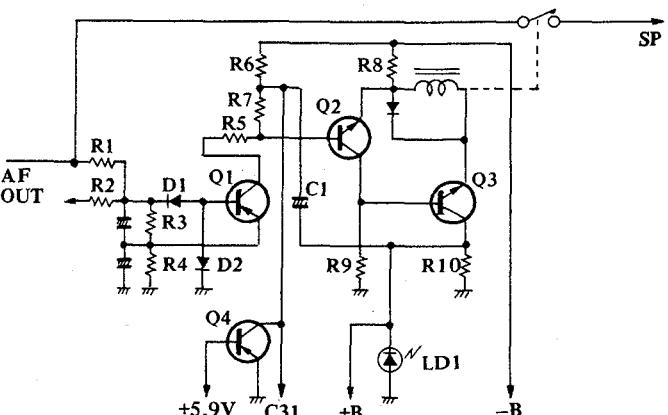
**Center Point Potential Detect:** This circuit, composed primarily of Q1, D1 and D2, protects the loudspeakers from DC at the amplifier output. When excessive plus or minus DC appears at R1 or R2, Q1 turns on, which activates Q2 and opens the speaker relay. At the same time, LD1, the front panel protection indicator, is activated.

## Power Supply (Refer to Block Diagram)

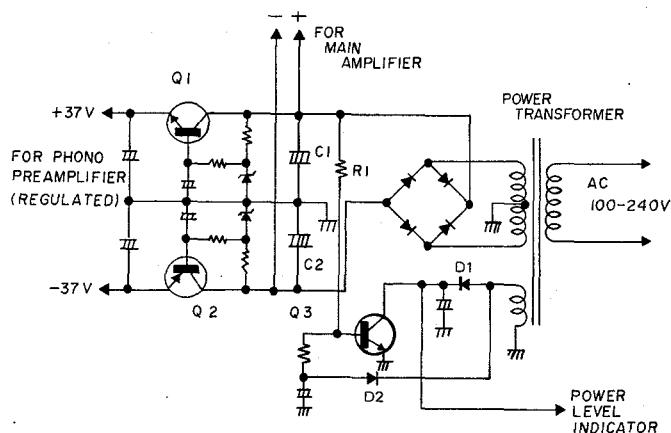
The main power supply consists of a full wave bridge rectifier and two capacitors (10,000  $\mu$ F for 380R; 15,000  $\mu$ F for 390R). The B+ and B- regulators (Q24 + Q25) supply  $\pm 37V$  for the phono preamplifiers. For model 390R, a provision has been made, utilizing Q3, D1 and D2, which deacti-

The output stage is protected from short circuit and overload by transistors Q14 through 17, which short out the driving signal when current through the output transistors reaches an excessive level.

The models 380A and 390A are designed using a differential current mirror loaded low noise input stage, where a transistor pair (Q11) are connected to provide an active load to the differential amplifier to further minimize distortion products.



vates the power level LEDs in a moment. With respect to a simple schematic shown below, at turn off, a plus dc applied to the base of Q3 from +67V main supply overcomes the minus bias fed through D2, Q3 will conduct, shorting plus low level power supply from D1 to ground.

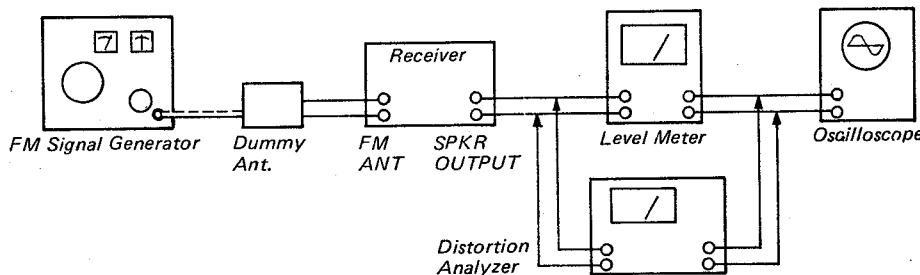


# ADJUSTMENT

## Equipment Required

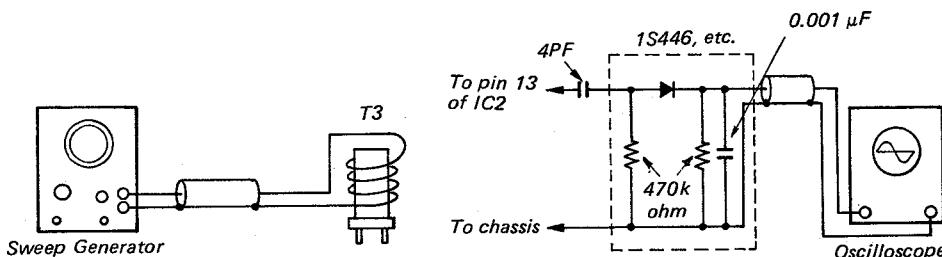
Audio signal generator.  
Level meter.  
Oscilloscope.  
Digital frequency counter, 0 – 100 kHz.  
FM multiplex signal generator.  
Circuit tester.

## FM RF Tracking (PSTU031COX)

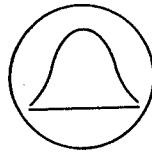


- 1) Apply 90 MHz, 1 kHz and 100% modulated, 65 dBf signal with 76 kHz deviation to the FM antenna terminal.
- 2) Tune the unit to 90 MHz.
- 3) Observe the oscilloscope connected to the Speaker output terminal for symmetrical sine wave. If failed, adjust T5.
- 4) Adjust T1 through T4 for maximum level meter reading (connected in parallel with the scope).
- 5) Adjust the signal generator for 106 MHz, and retune the unit. Adjust CT8 to tune in.
- 6) Adjust CT1, CT2, CT4 and CT6 for maximum level meter reading.
- 7) Repeat above procedure again until no further improvement is obtained.

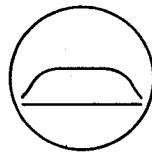
## FM IF Amplifier (PSTU041COX)



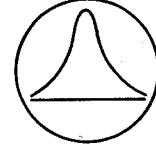
- 1) Mute the FM local oscillator by shorting CV8.
- 2) Apply 10.7 MHz signal from the sweep generator to T3 in the manner shown as above.
- 3) Adjust T6 and T7 for correct figure as provided below. It may be necessary to increase or decrease the sweep generator output for adjustment convenience.



*Correct*



*Incorrect,  
as too low*



*Incorrect,  
as too narrow*

## Pilot Signal (76 kHz) (PSTU032COX – 380R/PSTU038COX – 390R)

- 1) Apply 98 MHz, 65 dBf signal to the unit with no modulation.
- 2) Adjust RV4 for 76 kHz  $\pm$ 200 Hz reading on the frequency

counter connected between TP (test point) and chassis ground. The deviation within  $\pm$ 200 Hz is acceptable.

## Stereo Separation

- 1) Apply 98 MHz, 65 dBf left channel composite signal to the unit modulated with 1 kHz, 9% pilot signal with 6.75 kHz deviation.
- 2) Connect a digital voltmeter to the right channel speaker output terminal.
- 3) Adjust RV5 for minimum leakage (minimum level) on the voltmeter.

- 4) Apply 98 MHz, 65 dBf right channel composite signal to the unit modulated same as step 1).
- 5) Move digital voltmeter to the left channel speaker output terminal.
- 6) Observe the right channel leakage appeared on the left channel output. If necessary, readjust RV5 for equal and minimum level at both channels.

## FM Center-Tuning Meter

- 1) Remove the signal generator output from the unit.
- 2) With no signal supplied to the unit, verify that the FM

Center-tuning meter reads exact center of the scale. If necessary, adjust T1.

## FM Distortion

- 1) Apply 98 MHz, 65 dBf, 1 kHz and 100% modulated signal to the unit, using same manner as in the FM Front-End set-up.

- 2) Adjust T2 for minimum distortion on the distortion analyzer. Readjust T1 if necessary, as turning T2 core may upset the center-tuning meter balance.

## Signal Strength Meter

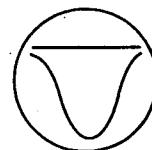
- 1) Apply 98 MHz, 90 dBf signal to the unit.
- 2) Tune the unit to 98 MHz.

- 3) Adjust RV2 for about 90% reading on the signal-strength meter.

## FM Mute Circuit

- 1) Apply 98 MHz, 20 dBf signal to the unit.
- 2) Tune the unit to 98 MHz.

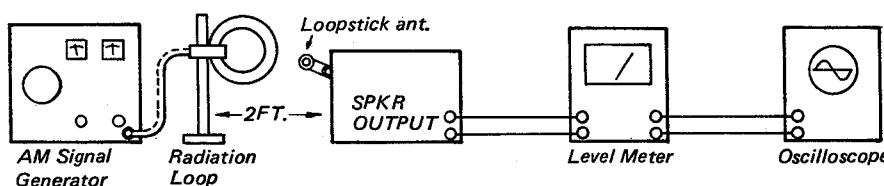
- 3) Place the Mute switch in on.
- 4) Adjust RV1, turning slowly until the signal is muted.



## AM IF Amplifier

- 1) Apply 455 kHz sweep generator output to the unit's AM Antenna terminal.
- 2) Connect the scope to the pin No. 12 of IC3 and the chassis ground.
- 3) Adjust T4 for maximum and symmetrical scope display as shown below.

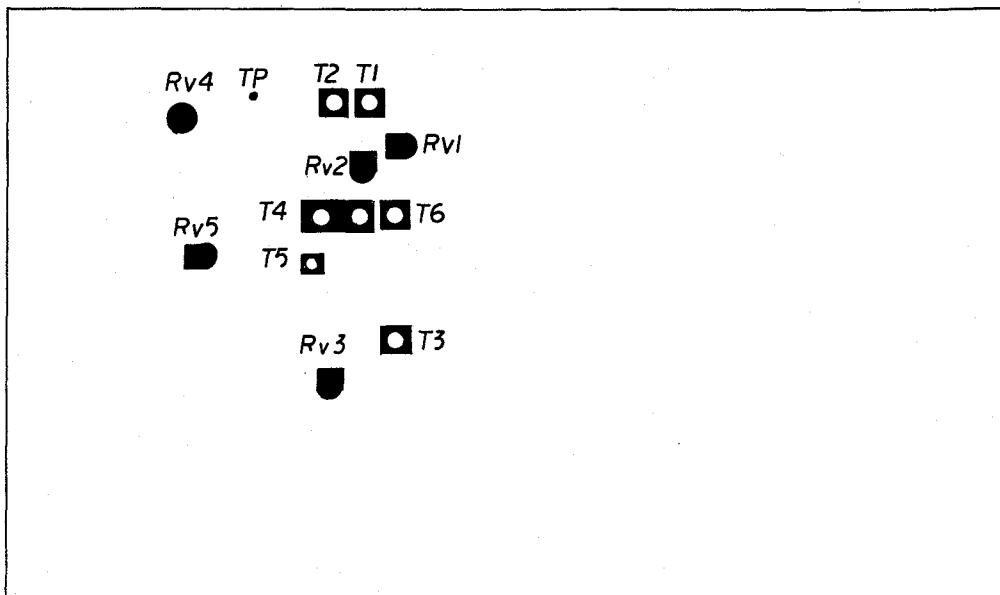
## AM Tracking



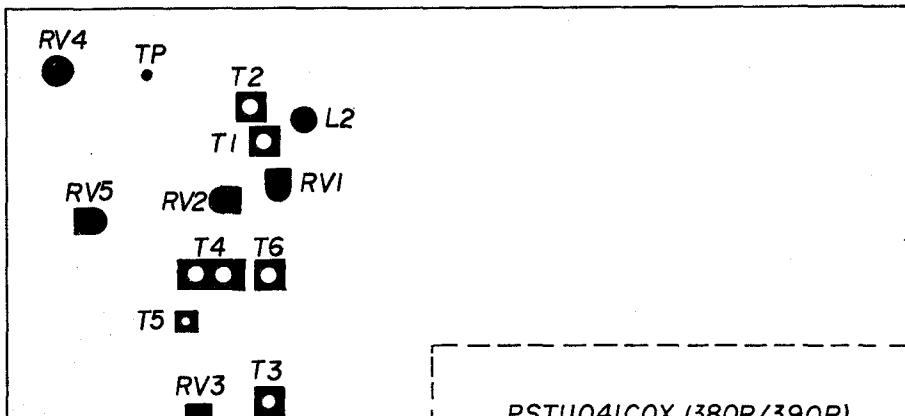
- 1) Apply 600 kHz, 30% modulated with 1 kHz to the AM bar antenna, as shown above. (Distance between the AM bar antenna and emitting loop should be about 2 feet).
- 2) Adjust the signal generator output so that a sine wave appears on the scope.
- 3) Adjust T6 for maximum audio output on the digital voltmeter connected parallel with the scope. When turning the core it may be necessary to reduce the signal generator output so that signal strength is only slightly above the noise level. This minimizes AGC action and will provide maximum alignment accuracy.
- 4) Adjust the AM loopstick antenna core for maximum output on the voltmeter.
- 5) Shift the generator frequency to 1400 kHz with same modulation condition. Retune the unit.
- 6) Adjust CT5 (dial frequency adjustment) + CT3 + CT7 (tracking) for maximum audio output.
- 7) Repeat above procedure at both frequencies, until no further improvement is obtained.
- 8) Verify the dial frequency indication on 1000 kHz.

#### Adjustment Location (RF Section)

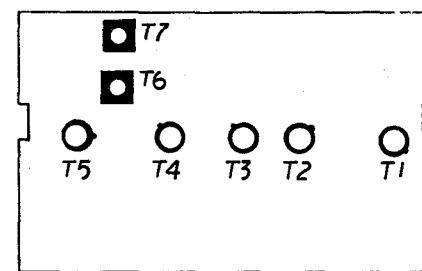
PSTU032COX (380R)



PSTU038COX (390R)



PSTU041COX (380R/390R)



## Audio Adjustment (PSMA030COX)

### Equipment Required

Audio signal generator.

DC voltmeter.

Speaker load resistor, 8 ohm, 200W, noninductive.

Digital voltmeter or milliammeter.

### Bias Adjustment

The following adjustments are the same for both the left and right channels.

- 1) Connect 8 Ohm resistors to the speaker A terminals, and set the Speaker Mode switch to A position.
- 2) Turn the Volume control fully counterclockwise.
- 3) Turn RV1 fully counterclockwise.
- 4) Depending on available equipment, use A or B.
  - A. Set digital voltmeter to most sensitive range. Connect probes, for 390R across Q1 emitter to Q7 emitter on PC board PTZQ008COX, for 380R across R37 and R39 (voltmeter bias test point, left channel). Turn unit on. Let it idle at least one minute. Adjust RV1 for 30 mV across the resistors.
  - B. With unit off, remove jumper between PC board ter-

minals E and E, and connect ammeter, set to 100 mA range.

Turn unit on and let it idle for at least one minute. Adjust RV1 for 60 mA.

- 5) Perform the same procedure for the right channel, except measure voltage across Q2 emitter to Q8 emitter on PC board PTZQ008COX for 390R, and across R38 and R40 for 380R (voltmeter bias test point, right channel) or replace jumper from D to D with ammeter. Adjustment is made with RV2.
- 6) Leave the receiver on for about 30 minutes, then recheck measurement. A tolerance of  $\pm 25\%$  is acceptable. Readjust if necessary.

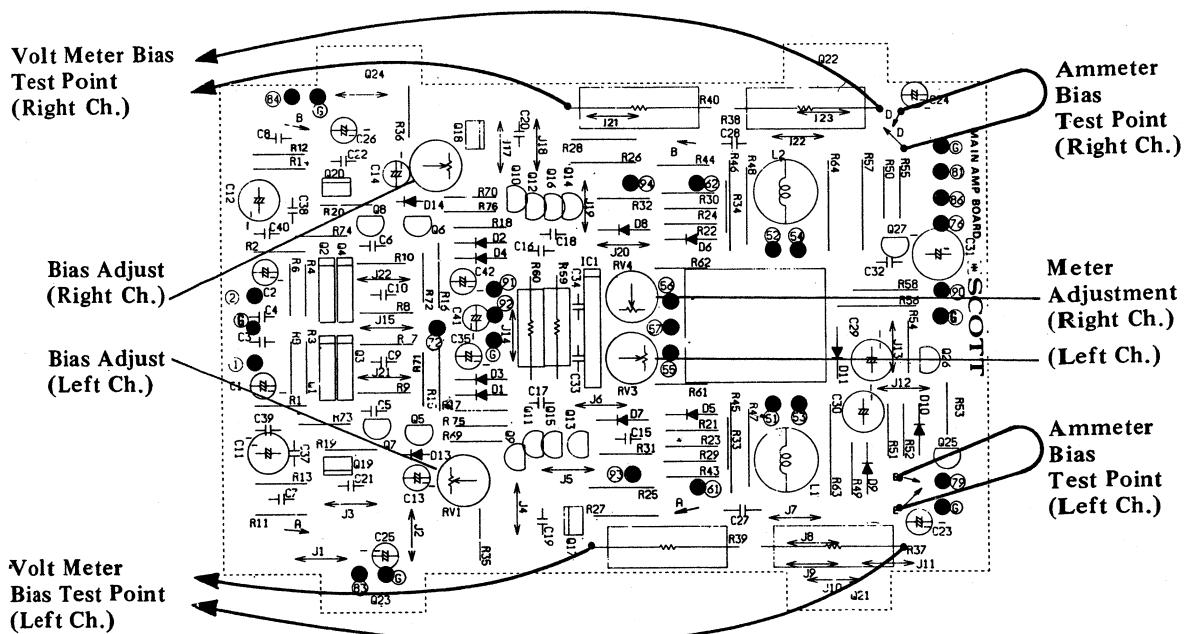
### Power Meter Calibration

- 1) Connect the audio signal generator to the receiver and apply 1 kHz signal to Aux input, left channel.
- 2) Connect voltmeter across the left channel load resistor.
- 3) Turn power on.
- 4) Adjust the signal generator output so as to obtain 2.83 volts on the voltmeter.
- 5) 380R: Check that the left channel meter indicates 1 watt.

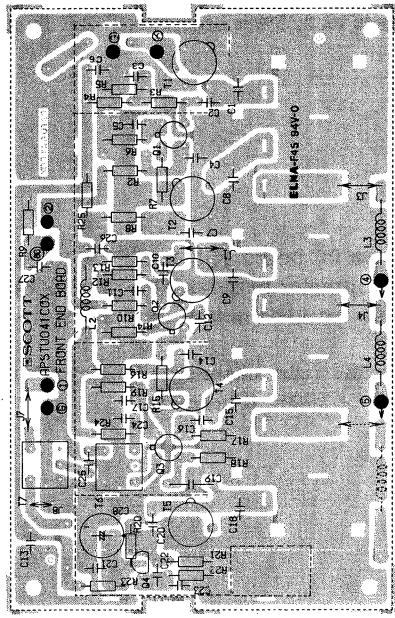
If not, adjust RV3.

- 390R: a. Adjust RV1 on PC board PSLD025COX to obtain 2.05V, connecting voltmeter between TP1 and TP2 on the board. b. Check that the LED indicating 1 watt turns on. If not, adjust RV3.
- 6) Perform above steps on the right channel, adjusting RV4 for 380R, RV2 and RV4 for 390R, if necessary.

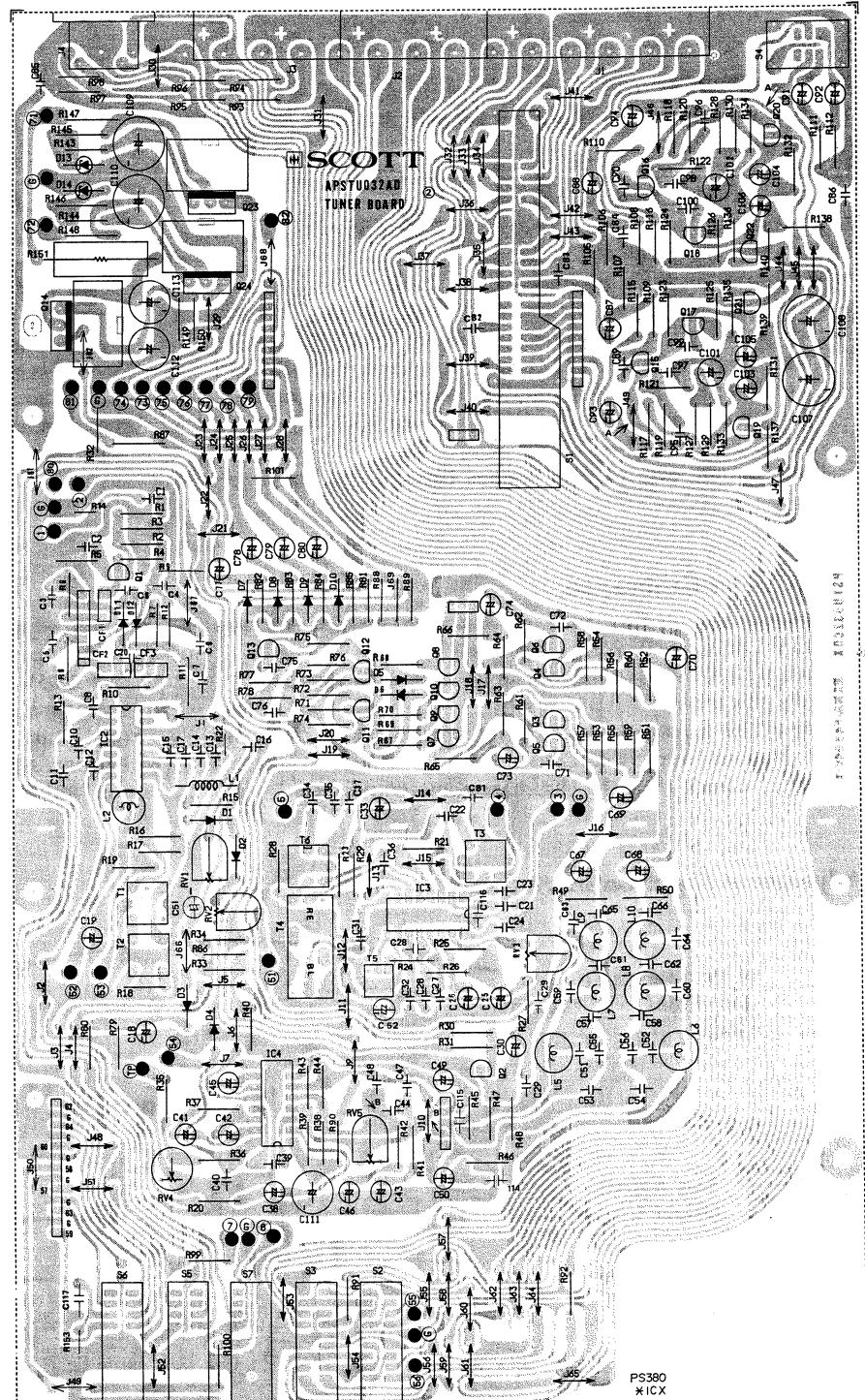
### Adjustment Location (Audio Section)



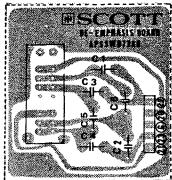
# PARTS LOCATION DIAGRAM



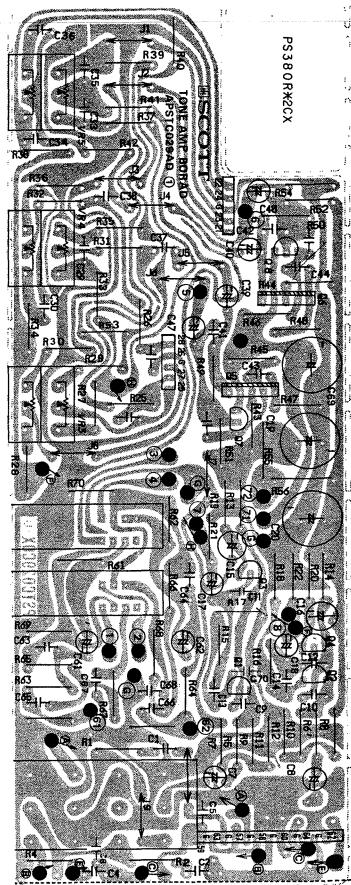
**FM Front-End [PSTU041COX]  
(380R/390R)**



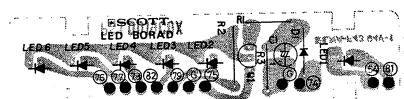
**FM IF/Det-AM Tuner/Preamplifier [PSTU032COX] (380R)**



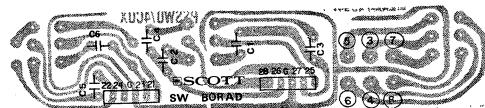
**De-emphassis  
[PSSW073COX]  
(380R/390R)**



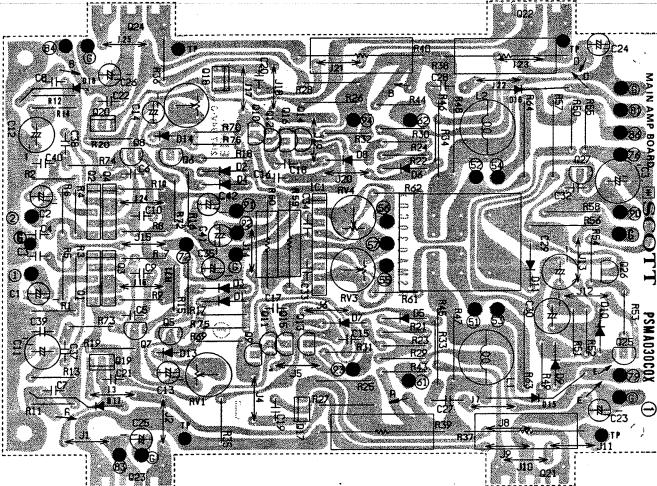
## **Control Amplifier [PSTC029COX] (380R)**



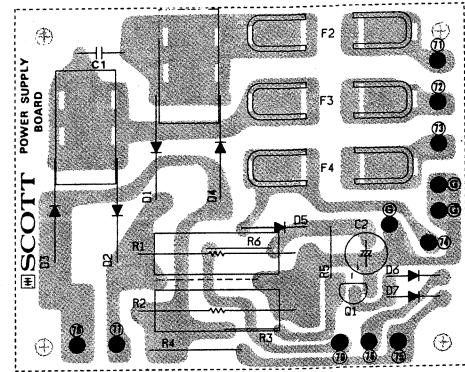
**Program LED  
[PSLD019COX]  
(380R)**



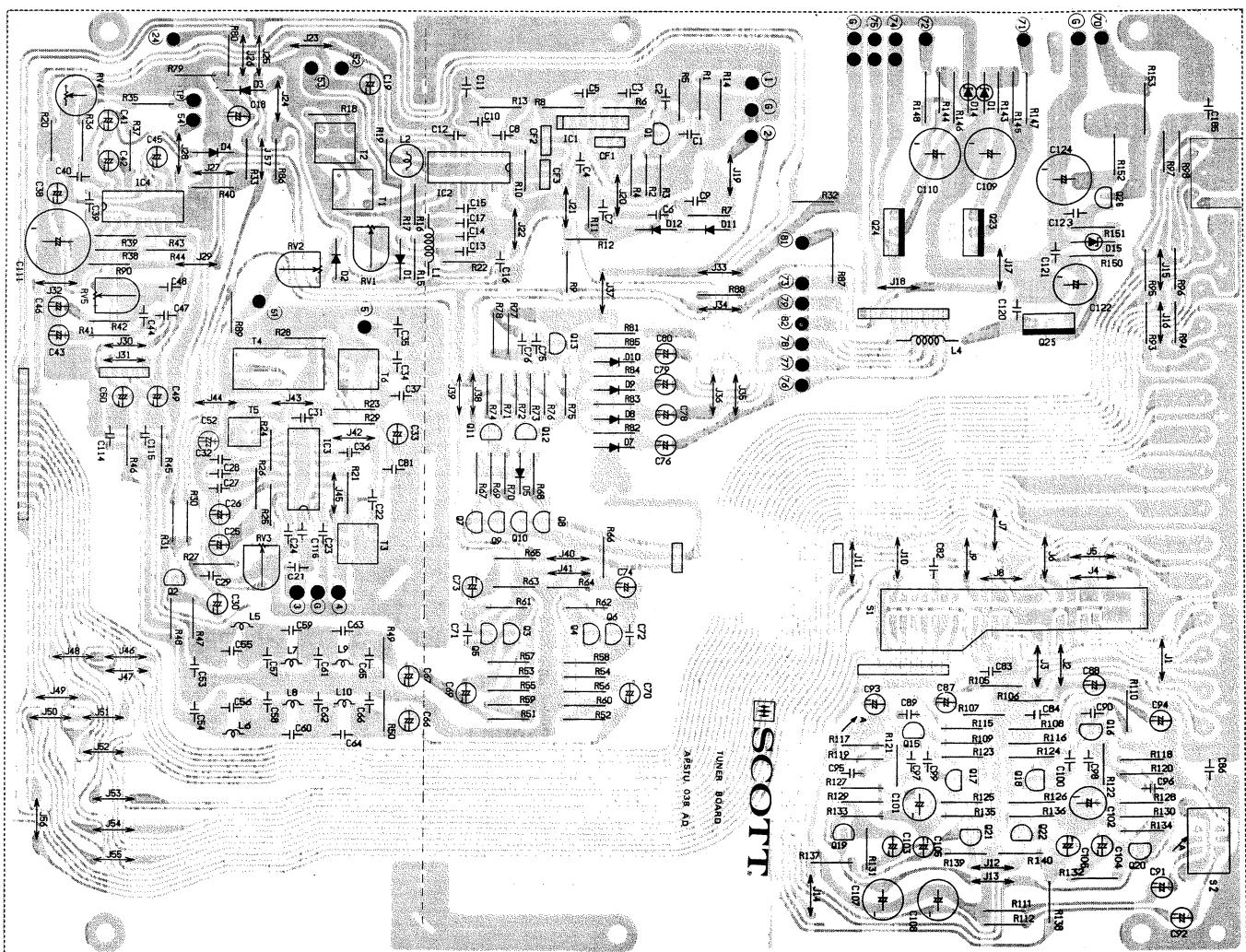
**Turn-over  
[PSSW074COX]  
(380R)**



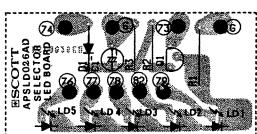
Power Amplifier [PSMA030COX] (380R/390R)



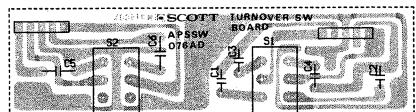
Power Supply  
[PSPW033COX] (380R)



FM IF/Det-AM Tuner/Preamplifier [PSTU038COX] (390R)



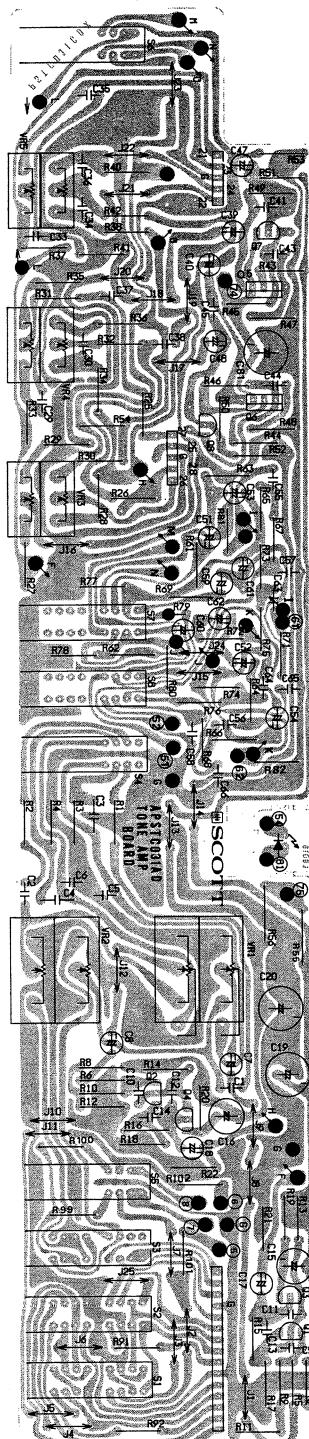
Program LED  
[PSLD026COX]  
(390R)



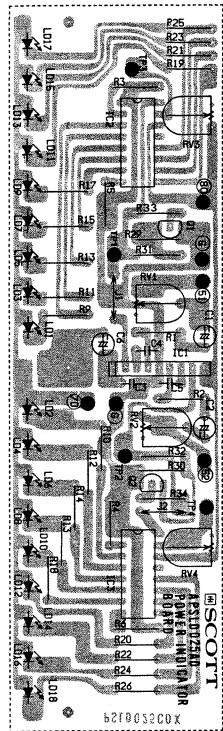
Turn-over  
[PSSW076COX]  
(390R)



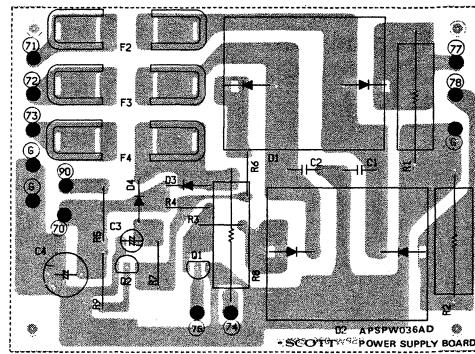
FM Mute SW  
[PSSW077COX]  
(390R)



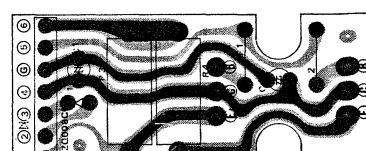
Control Amplifier  
[PSTC031COX]  
(390R)



Level LED  
[PSLD025COX]  
(390R)



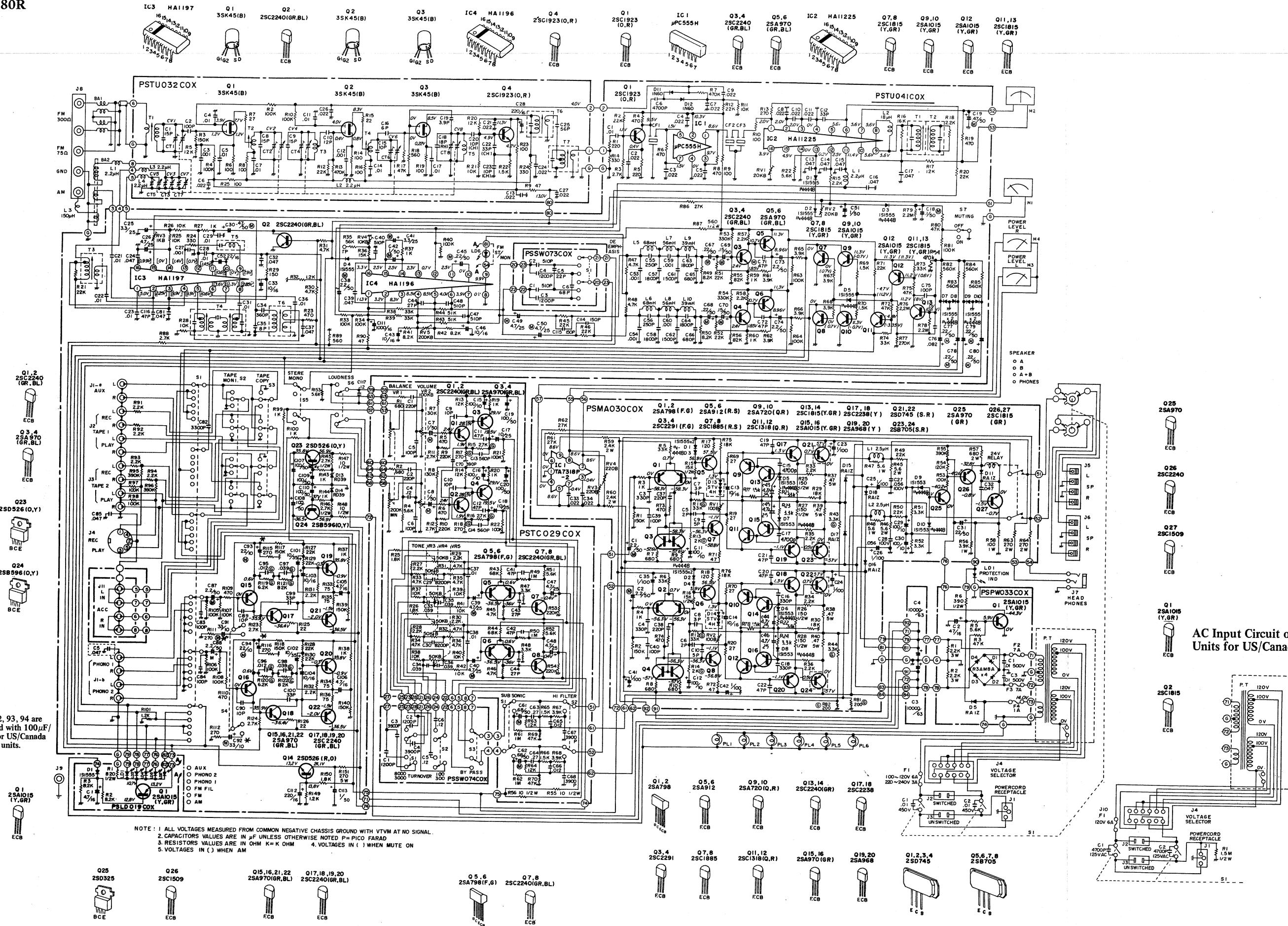
Power Supply [PSPW036COX] (390R)



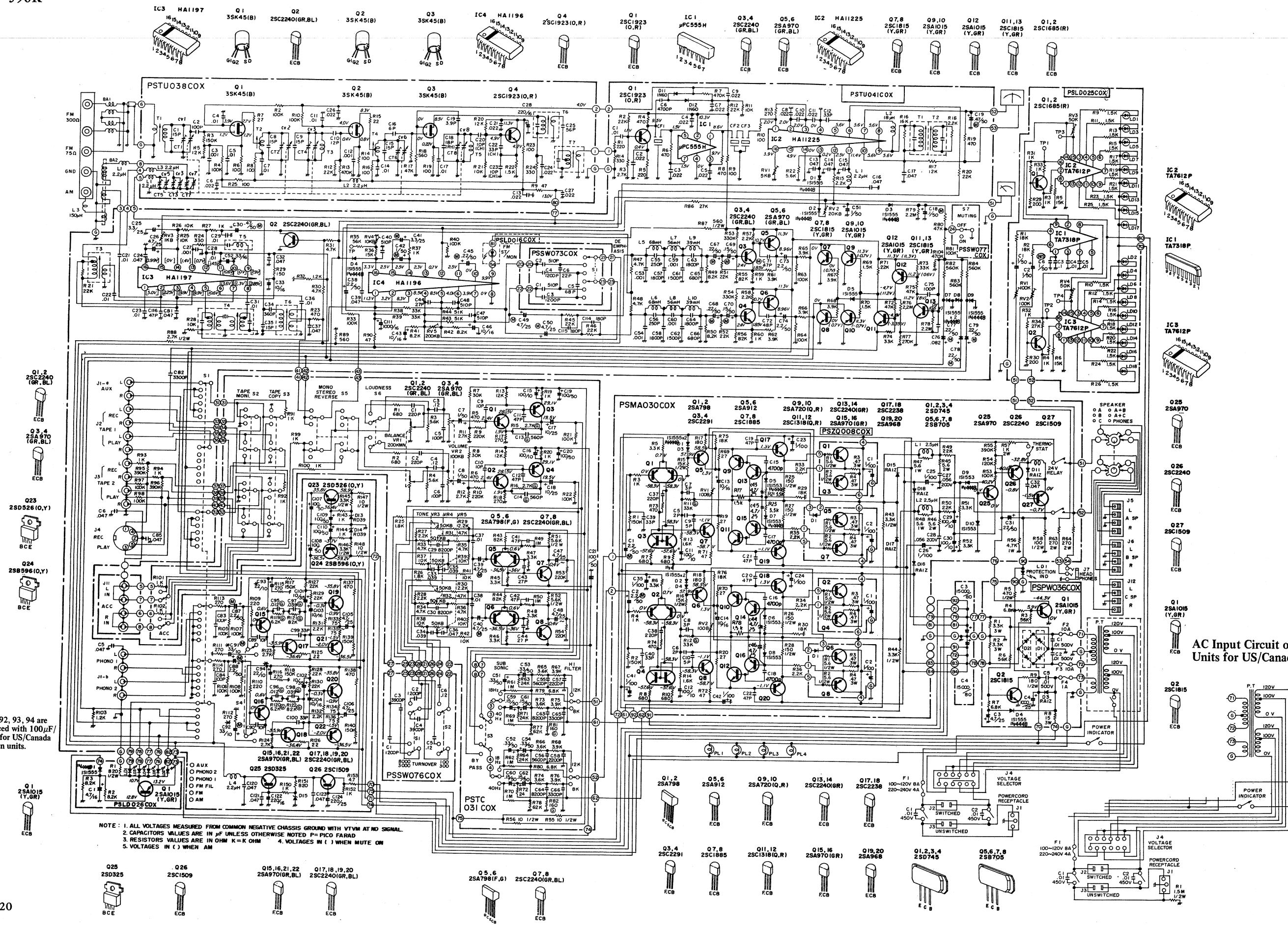
Final Power TR  
[PSZQ008COX]  
(390R)

# SCHEMATIC DIAGRAM

380R



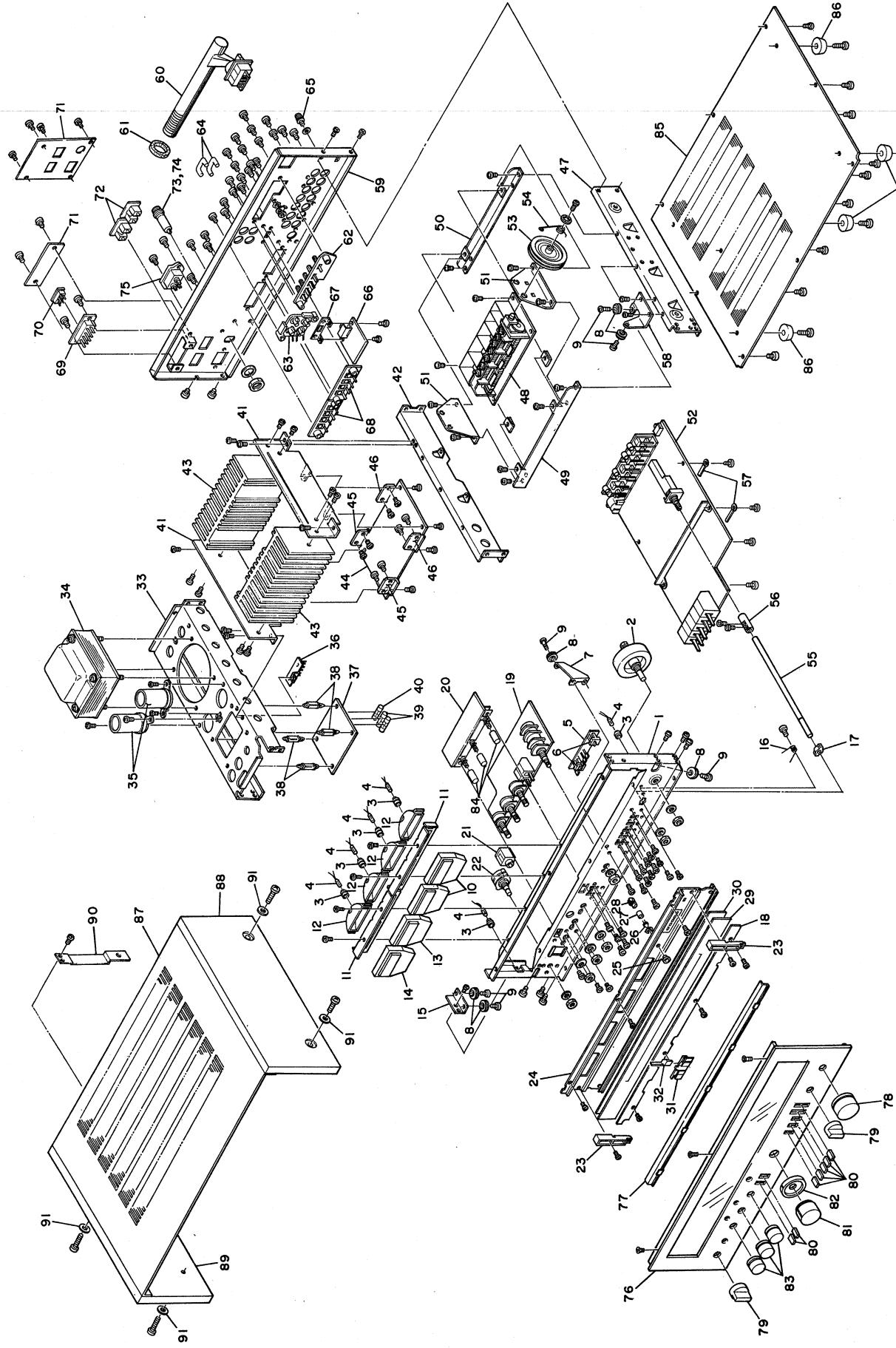
\*C91, 92, 93, 94 are replaced with 100μF/6.3V for US/Canada version units.



## **AC Input Circuit of Units for US/Canada.**

**EXPLODED VIEW**

380R



# REPLACEMENT PARTS LIST

## Mechanical: 380R

| Exploded View No. | Description                                 | Part Code  |
|-------------------|---|------------|
| 1                 | Front panel                                 | MB974SZ004 |
| 2                 | Tuning flywheel                             | AVFLYWL009 |
| 3                 | Bulbe relief                                | VM165RX001 |
| 4 (PL1-6)         | Bulbe, 14V/80 mA                            | ZPA148103U |
| 5                 | LED indicator board                         | PSLD019COX |
| 6                 | LED housing                                 | VK226SB001 |
| 7                 | Stringing bracket                           | ML154SZ001 |
| 8                 | Stringing pulley                            | VM173DN001 |
| 9                 | Screw                                       | MT142SN001 |
| 10 (M3, 4)        | Power meter, 250 $\mu$ A                    | ZMD2052K01 |
| 11                | Meter mount bridge                          | ML742SZ011 |
| 12                | Meter housing                               | VB632SW001 |
| 13 (M2)           | Center tune meter, $\pm 250 \mu$ A          | ZMF4052K02 |
| 14 (M1)           | Signal strength meter, 500 $\mu$ A          | ZMG2052N02 |
| 15                | Stringing bracket                           | ML241SZ003 |
| 16                | Coil spring                                 | MW141LY002 |
| 17                | Bearing                                     | VF221DN001 |
| 18                | Pointer guide                               | MS926SZ001 |
| 19                | Control amplifier board                     | PSTC029COX |
| 20                | Turn-over switch board                      | PSLD019COX |
| 21 (J7)           | Headphone jack                              | YJS03S016Z |
| 22 (S1)           | Power/Speaker switch, UL listed             | SU025108VA |
| 23                | Shade                                       | VK261SB001 |
| 24                | Tuning escutcheon                           | ME96EAA005 |
| 25                | LED relief                                  | MT165BC001 |
| 26 (LD1)          | Protection LED                              | QLAGD4505R |
| 27                | LED isolation                               | VM162RX001 |
| 28                | LED socket                                  | YSZ020002U |
| 29                | Tuning scale                                | VS943AC001 |
| 30                | Tuning scale support                        | VS945VM001 |
| 31                | Dial pointer bracket                        | VK131NB001 |
| 32                | Dial pointer                                | MJ311Bc002 |
| 33                | Power supply chassis                        | MU865SZ003 |
| 34 (PT)           | Power transformer                           | TPAA5A004Y |
| 35 (C3, 4)        | Electrolytic capacitor, 10,000 $\mu$ F/63WV | CEJ1H10306 |
| 36                | Wiring bridge                               | MP363SS001 |
| 37                | Power supply board                          | PSPW033COX |
| 38                | PC board mounting piece                     | VX311NN001 |
| 39 (F2, 3)        | Fuse, 7A                                    | ZFBQ70201Z |
| 40 (F4)           | " 1A  | ZFBQ10203Z |
| 41                | Heatsink mount bracket                      | MS867SZ003 |
| 42                | Chassis bridge, left                        | MU853SZ001 |
| 43                | Heatsink                                    | MH776AA001 |
| 44                | Power amplifier board                       | PSMA030COX |

| Exploded View No. | Description                                   | Part Code                              |
|-------------------|---|--|
| 45 (Q21, 22)      | Transistor, 2SD745                            | QTD0745XAA                             |
| 46 (Q23, 24)      | " 2SB705                                      | QTB0705XAA                             |
| 47                | Chassis bridge, left                          | MU852SZ005                             |
| 48                | Front end board                               | PSTU031COX                             |
| 49                | #48 board mounting bracket                    | ML721SZ010                             |
| 50                | "   | ML721SZ011                             |
| 51                | VC bracket                                    | ML662SZ003                             |
| 52                | Tuner board                                   | PSTU032COX                             |
| 53                | VC pulley                                     | VM297SB003                             |
| 54                | Coil spring                                   | MW362LY004                             |
| 55                | Remote shaft                                  | MT865AD016                             |
| 56                | Shaft coupling                                | VM460DN001                             |
| 57                | Clamp   | MX315SZ001                             |
| 58                | Stringing bracket                             | ML554SZ001                             |
| 59                | Rear panel                                    | MB972SM017                             |
| 60 (BA2)          | Ferrite antenna                               | TEAR155E01                             |
| 61                | Rubber sponge                                 | VM230MB001                             |
| 62 (J8)           | Antenna terminal                              | YTD05D001U                             |
| 63 (J11)          | Accessory in/out RCA jacks                    | YJP04S011U                             |
| 64                | Shorting bar                                  | MU132BN001                             |
| 65 (J9)           | Ground thumb screw                            | YTD01S001U                             |
| 66                | De-emphassis board                            | PSSW073COX                             |
| 67                | #66 mounting bracket                          | ML322SZ006                             |
| 68 (J5, 6)        | Speaker output terminal                       | YTS04U007U                             |
| 69 (J4)           | Voltage selector receptacle                   | YJZ10S001U                             |
| 70 (P1)           | " plug  | YPZ06S004U                             |
| 71                | Voltage identification, Europe:<br>US/Canada: | MS636SE001                             |
| 72 (J2, 3)        | AC accessory outlet                           | MS766SE001                             |
| 73 (J10)          | Fuse holder                                   | YJA020005U                             |
| 74 (F1)           | Fuse, US/Canada: 6A<br>Europe: 3A             | YHF1S3001U<br>ZFBQ60202U<br>ZFBQ30202Z |
| 75 (J1)           | AC power receptacle                           | YJA03S002U                             |
| 76                | Front escutcheon                              | AM380R**01                             |
| 77                | Shade   | MZ191SM001                             |
| 78                | Knob, Tuning                                  | MN386AA026                             |
| 79                | " Power/Speaker                               | MN376AA019                             |
| 80                | " levers                                      | VN360SX001                             |
| 81                | " Volume                                      | MN296XA003                             |
| 82                | " Balance                                     | MN296XA002                             |
| 83                | " Tone  | MN276XA020                             |
| 84                | " Turn-over                                   | VN265SP004                             |
| 85                | Bottom plate                                  | MS986SZ016                             |
| 86                | Foot  | VM280EB001                             |
| 87                | Cabinet cover top                             | MB983SX002                             |

| Exploded View No. | Description               | Part Code  |
|-------------------|---------------------------|------------|
| 88                | Cabinet board side, right | VS879WT003 |
| 89                | " left                    | VS879WT004 |
| 90                | Cabinet grounding piece   | MS723SS002 |
| 91                | Washer                    | MS707SB001 |

#### Electrical Parts on Main Chassis: 380R

| Symbol No. | Description   | Part Code  |
|------------|---|------------|
| BA1        | 300 ohm balance coil  | TV750301A2 |
| C1, 2      | US/Canada: Ceramic capacitor, 4,700p*, 125V AC<br>Europe: Oil-paper capacitor, 0.01*, 450V AC | CKDX472PMM |
| C5         | Ceramic capacitor, 0.047  | CNST103MAN |
| L1, 2      | RFC, 2.2 $\mu$ H  | CKDB473ZFM |
| L3         | " 150 $\mu$ H   | LCADA3038A |
| D13, 14    | Quadruple diode block, STV-4H   | LF151KA01T |
|            |   | QVFSTV4HxD |

#### Miscellaneous: 380R

| Description                             | Part Code  |
|---|------------|
| Operation manual, US/Canada:<br>Europe: | KT380R**AX |
| Carton                                  | KT380R**AE |
| Cushoning                               | KP380R**01 |
| Accessory dipole                        | KN380R**01 |
|   | ZAT0015002 |

#### PSTU041COX [Tuner Front-End] : 380R/390R

| Symbol No.       | Description            | Part Code  |
|------------------|------------------------|------------|
| L2-4             | RFC, 2.2 $\mu$ H       | LCADA3038A |
| CV1-8            | VC, 5-gang/3-gang      | CVA3533G01 |
| T1               | RFT, RF input          | TRA7JZ010S |
| T2, 3            | " 2nd RF input         | TR10MQ003M |
| T4               | " Mixer input          | TR10MQ002M |
| T5               | " FM local osc         | TR10MQ005M |
| T6, 7            | " 10.7 MHz             | TR10MA013S |
| Q1-3             | FET, 3SK45             | QTL0045XAB |
| Q4               | Transistor, 2SC1923    | QTC1923XAT |
| C1, 8, 9         | Ceramic capacitor, 15p | CCDB150KOM |
| C2               | " 100p                 | CCDB101KOM |
| C3, 12           | " 0.001                | CKDB102KBM |
| C4, 5, 11, 17, 7 | " 0.01                 | CKFB103ZFT |

\* Capacitors listed are in micro-farad with voltage handling capability of 50V, unless otherwise specified.

| Symbol No.             | Description                    | Part Code  |
|------------------------|--------------------------------|------------|
| C6, 13, 21, 24, 26, 27 | Ceramic capacitor, 0.022       | CKFB223ZFT |
| C10                    | " 12p                          | CCDB120KOM |
| C15, 20, 23            | " 10p                          | CCDB100DCM |
| C16                    | " 6p                           | CCDB060COM |
| C18                    | " 18p                          | CCDB180KPM |
| C19                    | Minic capacitor, 3.9p          | CG2H3R9KNN |
| C22                    | Ceramic capacitor, 33p         | CCDB330KCM |
| C25                    | " 56p                          | CCDB560KOM |
| C28                    | Electrolytic capacitor, 220/16 | CEED221ALX |

PSTU032COX [Tuner] : 380R

| Symbol No.            | Description                              | Part Code  |
|-----------------------|--|------------|
| J1                    | Phono 1/2, Aux input RCA jack, 6P        | YJP06S007U |
| J2, 3                 | Tape 1/2 in/out RCA jack                 | YJP04S016U |
| J4                    | Tape in/out receptacle, DIN-standardized | YJD05S011Z |
| S1                    | Function rotary switch                   | SH060606ZA |
| S2, 3                 | Tape Mon/Copy lever switch               | SL040304ZB |
| S4                    | Phono Sens switch                        | SS020233ZA |
| S5-7                  | St/Mono lever switch                     | SL020215ZB |
| RV1                   | Trimming VR, 10k (B)                     | RPGNB10301 |
| RV2                   | " 20k (B)                                | RPGNB20301 |
| RV3                   | " 1k (B)                                 | RPGNB10201 |
| RV4                   | " 10k (B), dust-proof                    | RPJNB10302 |
| RV5                   | " 200k (B)                               | RPGNB20401 |
| IC1                   | IC, mu-PC555H, IF amp                    | QQM00555BA |
| IC2                   | " HA11225, IF/Quadrature                 | QQM11225AB |
| IC3                   | " HA1197, mpx demodulator                | QQMA1197AB |
| IC4                   | " HA1196, AM tuner                       | QQMA1196AB |
| Q1                    | Transistor, 2SC1923                      | QTC1923XAT |
| Q2-4, 17-20           | " 2SC2240                                | QTC2240XAT |
| Q5, 6, 15, 16, 21, 22 | " 2SA970                                 | QTA0970XAT |
| Q7, 8, 11, 13         | " 2SC1815                                | QTC1815XAT |
| Q9, 10, 12            | " 2SA1015                                | QTA1015XAT |
| Q14, 23               | " 2SD526                                 | QTD0526XAT |
| Q24                   | " 2SB596                                 | QTB0596XAT |
| D1-5, 7-10            | Silicon diode, 1N4448                    | QDSN4448XZ |
| D11, 12               | Germanium diode, 1N60                    | QDG1N60XXT |
| D13, 14               | Zenner diode, RD39EB4                    | QDZRD39EDA |
| L1                    | RFC, 2.2 $\mu$ H                         | LCADA3038A |
| L2                    | " 18 $\mu$ H                             | LF180JC01K |
| L5, 6                 | " 68 mH                                  | LF683JC01K |
| L7, 8                 | " 56 mH                                  | LF563JC01K |

| Symbol No.                     | Description                            | Part Code   |
|--------------------------------|--|-------------|
| L9, 10                         | RFC, 39 mH                             | LF393JC01K  |
| CF1                            | Ceramic filter, 2-element, 10.7 MHz    | FB10R7F14M  |
| CF2, 3                         | "                                      | FB10R7F15M  |
| T1                             | RFT, quadrature                        | TR10MM013M  |
| T2                             | " "                                    | TR10MM014M  |
| T3                             | " AM tuner                             | TR10MN006M  |
| T4                             | RFT+ filter, AM IF, 455 kHz            | FBR455A18Q  |
| T5                             | RFT                                    | TR07BM001M  |
| T6                             | " AM local osc                         | TR10MZ002M  |
| R87                            | M-oxide film resistor, 560**, 1/2W     | RGHANJ561N  |
| R145, 146                      | " 2.7k, 1/2W                           | RGHANJ272N  |
| R147, 148                      | " 10, 1/2W                             | RXHANJ100N  |
| R151                           | Cement resistor, 270, 5W               | RF05SK27KB  |
| C1, 21-23, 31, 36              | Ceramic capacitor, 0.01                | CKFB103ZFT  |
| C2-5, 7-11                     | " 0.022                                | CKFB223ZFT  |
| C6                             | " 4,700p                               | CKGB472ZFT  |
| C12, 99, 100                   | " 33p                                  | CCGB330KOT  |
| C13-17, 24, 32, 37, 39, 81, 85 | " 0.047                                | CKFB473ZFT  |
| C18                            | Electrolytic capacitor, 0.1            | CEEGR10ZMN  |
| C19, 30                        | " 0.47                                 | CEEGR47ZMN  |
| C20                            | Ceramic capacitor, 47p                 | CCDB470KOM  |
| C25                            | Electrolytic capacitor, 3-3/25         | CEVE3R3ALX  |
| C26                            | " 4.7/25                               | CEVE4R7ALX  |
| C27                            | Ceramic capacitor, 0.001               | CKGB102KBT  |
| C28, 29                        | Mylar capacitor, 0.01                  | CQMB103KEH  |
| C33, 43, 46, 103, 104          | Electrolytic capacitor, 10/16          | CEVD100ALX  |
| C34                            | Styroflex capacitor, 360p              | CQSC361JCF  |
| C35                            | Ceramic capacitor, 8p                  | CCGB080DOT  |
| C38                            | Electrolytic capacitor, 2.2 (non-pol.) | CEEG2R2NLX  |
| C40, 47, 48                    | Styroflex capacitor, 510p              | CQSC511JCF  |
| C41                            | Electrolytic capacitor, 3.3/25         | CEEE3R3ZMN  |
| C42                            | " 1                                    | CEEGR010ZMN |
| C44                            | Ceramic capacitor, 27p                 | CCGB270KOT  |
| C45, 73, 74                    | Electrolytic capacitor, 2.2            | CEEGR22ZMN  |
| C49, 50                        | " 4.7/25                               | CEEE4R7ZMN  |
| C51, 113                       | " 1                                    | CEAG010ALX  |
| C52                            | " 3.3/16                               | CEAD330ALX  |
| C53, 54                        | Ceramic capacitor, 1,000p              | CKGB102KBT  |
| C55, 56                        | Styroflex capacitor, 250p              | CQSC251JCF  |
| C57, 58                        | Mylar capacitor, 0.0018                | CQMB182KEH  |
| C59, 60                        | Styroflex capacitor, 1,000p            | CQSC102JCF  |
| C61, 62                        | Mylar capacitor, 1,500p                | CQMB152KEH  |
| C63, 64                        | Styroflex capacitor, 1,800p            | CQSC182JCF  |

| Symbol No.     | Description                   | Part Code  |
|----------------|-------------------------------|------------|
| C65, 66        | Styroflex capacitor, 680p     | CQSC681JCF |
| C67, 68, 77-80 | Electrolytic capacitor, 0.22  | CEEGR22ZMN |
| C69, 70        | " 0.15                        | CEEGR15ZMN |
| C71, 72, 116   | Ceramic capacitor, 47p        | CCGB470KOT |
| C75            | " 100p                        | CCGB101KOT |
| C76            | Mylar capacitor, 0.082        | CQMB823KEH |
| C82            | " 3,300p                      | CQMB332KEH |
| C83, 84        | Ceramic capacitor, 100p       | CCGB101KOT |
| C87, 88        | Electrolytic capacitor, 2.2   | CEEG2R2ZMN |
| C89, 90        | Ceramic capacitor, 10p        | CCGB100DOT |
| C92, 92        | Electrolytic capacitor, 33/10 | CEEC330ZMN |
| C93, 94        | " 22/10                       | CEEC220ZMN |
| C95, 96        | Mylar capacitor, 0.012        | CQMB123GEH |
| C97, 98        | " 0.039                       | CQMB393GEH |
| C101, 102      | Electrolytic capacitor, 10/35 | CEVF100ALX |
| C105, 106      | " 4.7/16                      | CEAD4R7NLC |
| C107-110       | " 100                         | CEEG101ALX |
| C111           | " 1,000/16                    | CEED102ALX |
| C112           | " 220/16                      | CEED221ALX |
| C115           | Ceramic capacitor, 150p       | CCDB151KOM |
| C117           | Mylar capacitor, 0.12         | CQMB124KEH |

**PSSW073COX [De-emphassis] : 380R/390R**

| Symbol No. | Description                   | Part Code  |
|------------|-------------------------------|------------|
| S1         | Slide switch                  | SS040305ZL |
| C1, 2      | Styroflex capacitor, 510p ±5% | CQSC511JCF |
| C3, 4      | Mylar capacitor, 1,200p ±5%   | CQMB122JEH |
| C5         | Ceramic capacitor, 68p        | CCGB680KOT |
| C6         | " 22p                         | CCGB220KOT |

**PSTC029COX [Control Amplifier] : 380R**

| Symbol No. | Description                              | Part Code  |
|------------|--|------------|
| VR1, 2     | VR, 200k (MN) + 100k (B), Volume/Balance | RVGA204X07 |
| VR3-5      | " 50k (B), Tone                          | RVQA503B05 |
| S1         | Slide switch, Sub-sonic                  | SL020215ZB |
| S2         | " Hi-Filter                              | SL020218ZB |
| Q1, 2, 8   | Transistor, 2SC2240                      | QTC2240XAT |
| Q3, 4      | " 2SA970                                 | QTA0970XAT |
| Q5, 6      | " 2SA798                                 | QTA0798XEE |
| R55        | M-oxide film resistor, 10**, 1/2W        | RXHANJ100N |

\*\* Resistors listed are in Ohm.

| Symbol No.      | Description                    | Part Code  |
|-----------------|--------------------------------|------------|
| C1, 2           | Ceramic capacitor, 220p        | CCFB221KOT |
| C4              | Mylar capacitor, 0.12          | CQMB124KEH |
| C5, 6           | Ceramic capacitor, 100p        | CCGB101KOT |
| C7, 8           | Electrolytic capacitor, 1      | CEEG010ZMN |
| C9, 10          | Ceramic capacitor, 10p         | CCGB100DOT |
| C11, 12, 41, 42 | " 47p                          | CCGB470KOT |
| C13, 14         | " 560p                         | CCFB561KOT |
| C15, 16         | Electrolytic capacitor, 100/10 | CEVC101ALX |
| C17, 18         | " 10/25                        | CEVE100ALX |
| C19, 20         | " 100                          | CEEG101ALX |
| C29, 30         | Mylar capacitor, 0.0082        | CQMB822KEH |
| C33-36          | " 0.039                        | CQMB393KEH |
| C37, 38         | " 0.01                         | CQMB103KEH |
| C39, 40, 47, 48 | Electrolytic capacitor, 4.7/25 | CEEE4R7ZMN |
| C43, 44         | Ceramic capacitor, 27p         | CCGB270KOT |
| C61, 62         | Electrolytic capacitor, 0.68   | CEEGR68ZMN |
| C63, 64         | Mylar capacitor, 0.27          | CQMB274KEH |
| C65, 66         | " 0.012                        | CQMB123KEH |
| C67, 68         | " 0.0039                       | CQMB392KEH |
| C70             | Ceramic capacitor, 390p        | CCDB391KOM |

**PSLD19COX [LED Indicator] ; 380R**

| Symbol No. | Description                      | Part Code  |
|------------|----------------------------------|------------|
| Q1         | Transistor, 2SA1015              | QTA1015XAT |
| D1         | Silicon diode, 1N4448            | QDSN4448XZ |
| LD1-6      | LED, Aux                         | QLAR5531KR |
| R1         | M-Oxide film resistor, 820, 1/2W | RGHANJ821N |
| C1         | Electrolytic capacitor, 4.7/16   | CEEE4R7ALX |

**PSSW074COX [Turn-over Control] : 380R**

| Symbol No. | Description             | Part Code  |
|------------|-------------------------|------------|
| C1, 2      | Push switch, 3-gang     | SP03DAX10A |
| C3, 4      | Mylar capacitor, 1,200p | CQMB122KEH |
| C5, 6      | " 3,900p                | CQMB392KEH |
|            | " 0.12                  | CQMB124KEH |

**PSMA030COX [Power Amplifier] : 380R**

| Symbol No.         | Description                    | Part Code  |
|--------------------|--------------------------------|------------|
| IC1                | IC, TA7318P-2                  | QQM07318AT |
| Q1, 2              | Transistor, 2SA798             | QTA0798XEE |
| Q3, 4              | " 2SC2291                      | QTC2291XAE |
| Q5, 6              | " 2SA912                       | QTA0912XAN |
| Q7, 8              | " 2SC1885                      | QTC1885XAN |
| Q9, 10             | " 2SA720                       | QTA0720XBN |
| Q11, 12            | " 2SC1318                      | QTC1318XDN |
| Q13, 14, 26, 27    | " 2SC1815                      | QTC1815XAT |
| Q15, 16            | " 2SA1015                      | QTA1015XAT |
| Q17, 18            | " 2SC2238                      | QTC2238XBT |
| Q19, 20            | " 2SA968                       | QTA0968XBT |
| Q25                | " 2SA970                       | QTA0970XBT |
| D1-10              | Silicon diode, 1N4448          | QDSN4448XZ |
| D11, 15-18         | " RA-1Z                        | QDSRA1ZXXD |
| L1, 2              | RFC, 2.5 μH                    | LA3QH1323B |
| RY1                | Relay, speaker protection      | ZRA444103U |
| RV-1, 2            | Trimming resistor, 100 (B)     | RPJNB10103 |
| RV-3, 4            | " 220 (B)                      | RPJNB22101 |
| R37-40             | Cement resistor, 0.47, 5W      | RF05SKR47B |
| R48                | M-oxide film resistor, 5.6, 1W | RX1ANJ5R6N |
| R56                | " 3.9k, 1W                     | RG1ANJ392N |
| R57                | " 680, 2W                      | RG2ANJ681N |
| R58                | " 100, 1/2W                    | RGHANJ101N |
| R59, 60            | " 2.4k, .2W                    | RG2ANJ242N |
| R63                | " 270, 2W                      | RG2ANJ271N |
| C1, 2              | Electrolytic capacitor, 2.2    | CEAG2R2ZMN |
| C3, 4              | Ceramic capacitor, 330p        | CCFB331KOT |
| C5, 6              | " 2p                           | CCGB020COT |
| C7, 8              | " 3p                           | CCGB030DOT |
| C9, 10             | Ceramic capacitor, 5p          | CCGB050COT |
| C11, 12            | Electrolytic capacitor, 100/10 | CEWC1O1ALX |
| C13, 14            | " 10/16                        | CEWD1O0ALX |
| C15-18             | Ceramic capacitor, 4,700p      | CKGB472ZFT |
| C19-22             | " 47p                          | CCGB470KOT |
| C23-26, 35, 41, 42 | Electrolytic capacitor, 1/100  | CEWK010ALX |
| C27, 28            | Mylar capacitor, 0.056/100     | CQMC563KEH |
| C29, 30            | Electrolytic capacitor, 100/10 | CEWC1O1ALX |
| C31                | " 22                           | CEAG220AMN |
| C32                | Mylar capacitor, 0.047         | CQMB473KTH |
| C33, 34            | " 0.022                        | CQMB223KTH |
| C37, 38            | Ceramic capacitor, 220p        | CCFB221KOT |
| C39, 40            | " 100p                         | CCGB1O1KOT |
| C43-46             | Electrolytic capacitor, 4.7/25 | CEAE4R7ALX |

**PSPW033COX [Power Supply] : 380R**

| Symbol No. | Description                     | Part Code  |
|------------|---------------------------------|------------|
| R1, 2      | M-oxide film resistor, 2.2k, 3W | RG3ANJ222N |
| R6         | " 390, 1/2W                     | RGHANJ391N |
| C1         | Ceramic capacitor, 0.01, 500V   | CKDE103PEM |
| C2         | Electrolytic capacitor, 47/16   | CEED470ALX |
| C3         | Ceramic capacitor, 0.01, 500V   | CKDE103PEM |
| Q1         | Transistor, 2SA1015             | QTA1015XAT |
| D1-4       | Silicon diode, SR3AM-8A         | QDSR3AM8AE |
| D5         | " RA-1Z                         | QDSRA1ZXZD |
|            | Fuse housing                    | YHFOP0003Z |

**390R Mechanical**

| Exploded View No. | Description              | Part Code  |
|-------------------|--------------------------|------------|
| 1                 | Escutcheon               | AM390R**01 |
| 2                 | Knob, Power/Speaker Mode | MN376AA019 |
| 3                 | " Turn-over              | VN265SP004 |
| 4                 | " Volume                 | MN276XA020 |
| 5                 | " Balance                | MN296XA003 |
| 6                 | " "                      | MN296XA002 |
| 7                 | " lever switches         | VN360SX001 |
| 8                 | " Tuning                 | MN386AA026 |
| 9                 | Shade                    | MZ191SM002 |
| 10                | Dial pointer             | MJ311BC002 |
| 11                | Pointer bracket          | VK131NB001 |
| 12                | Shade                    | VK261SB002 |
| 13                | Pointer rail             | MS926SZ002 |
| 14                | Dial scale               | VS948AC001 |
| 15                | Plate at dial back       | VS945VM002 |
| 16                | LED bezel                | MT165BC001 |
| 17                | LED holder               | VK226SB001 |

| Exploded View No. | Description                             | Part Code   |
|-------------------|---|-------------|
| 18                | Stereo indicator board                  | PSLD026COX  |
| 19                | L-bracket                               | ML721SZ014  |
| 20                | Protection LED (LD1)                    | QLAGD4505R  |
| 21                | LED relief                              | VM162RX001  |
| 22                | Front panel                             | MB974SZ006  |
| 23                | Stringing pulley                        | ML241SZ003  |
| 24                | "                                       | VM173DN001  |
| 25                | Pulley shaft                            | MT142SN001  |
| 26                | Bulbe relief                            | VM165RX001  |
| 27                | Bulbe, 14V/80 mA (PL1-4)                | ZPA148103U  |
| 28                | Signal meter (M1), 500 $\mu$ A          | ZMG2052N02  |
| 29                | Center-tune meter (M2), $\pm 250 \mu$ A | ZMF4052K02  |
| 30                | Meter bracket                           | ML742SZ011  |
| 31                | Meter housing                           | VB632SW001  |
| 32                | AC Power switch (S1)                    | SU027201AB  |
| 33                | Headphone jack (J7)                     | YJS03S016Z  |
| 34                | PC board bracket                        | ML331SZ005  |
| 35                | Power level LED board                   | PSLD025COX  |
| 36                | Program LED board                       | PSLD026COX  |
| 37                | Stringing pulley                        | ML154SZ001  |
| 38                | Tuning flywheel                         | AVFLYWL009  |
| 39                | Control amplifier board                 | PSTC031COX  |
| 40                | Spacer                                  | MT163BD012  |
| 41                | Push switch (S2), Power LED             | SP01AAX26A  |
| 42                | Turn-over board                         | PSSW076COX  |
| 43                | Coil spring                             | MW141LY002  |
| 44                | Shaft relief                            | VF221DN001  |
| 45                | Remote shaft                            | MT865AD017  |
| 46                | Coupler                                 | VM460DN001  |
| 47                | Clamp                                   | MX315SZ001  |
| 48                | Input terminal board                    | PSSW077COX  |
| 49                | Chassis bridge                          | MU863 SZ003 |
| 50                | Stringing pulley                        | ML554SZ001  |
| 51                | VC board bracket                        | ML821SZ005  |
| 52                | Bracket                                 | ML662SZ003  |
| 53                | Dial drum                               | VM297SB004  |
| 54                | Coil spring                             | MW362LY005  |
| 55                | VC board bracket                        | ML821SZ006  |
| 56                | Tuner board                             | PSTU031COX  |
| 57                | Chassis bridge                          | MU863 SZ002 |
| 58                | Bracket                                 | ML261SZ002  |
| 59                | Strain relief                           | VF177EB001  |
| 60                | Power amplifier board                   | PSMA030COX  |
| 61                | Heatsink bracket                        | MS867SZ003  |

| Exploded View No. | Description                              | Part Code                |
|-------------------|--|--------------------------|
| 62                | Heatsink                                 | MH776AA007               |
| 63                | Transistor (Q5-8), 2SB705                | QTB0705XAA               |
| 64                | " (Q1-4), 2SD745                         | QTD0745XAA               |
| 65                | Power transistor board                   | PSZD008COX               |
| 66                | "  | PSZD008COX               |
| 67                | Power supply chassis                     | MU876SZ001               |
| 68                | Grounding block                          | ML642BD001               |
| 69                | PC board spacer                          | VX311NN001               |
| 70                | Power supply board                       | PSPW036COX               |
| 71                | Fuse (F4), 1A                            | ZFBQ10202U               |
| 72                | " (F2, 3), 10A                           | ZFBQ10303U               |
| 73                | Electrolytic capacitor (C3, 4) 15,000/80 | CEJ1J15301               |
| 74                | Power transformer (PT)                   | TPAB1A001Y               |
| 75                | PT bracket                               | MB774SZ005               |
| 76                | Rear panel                               | MB974SE001               |
| 77                | Speaker output terminal (J5, 6, 12)      | YTS04S007U               |
| 78                | Switch bracket                           | ML322SZ006               |
| 79                | De-emphasis board                        | PSSW073COX               |
| 80                | Accessory in/out RCA jack (J11)          | YJP04S007U               |
| 81                | Antenna terminal (J8)                    | YTD05D001U               |
| 82                | Ground terminal (J9)                     | YTD01S002U               |
| 83                | Loopstick antenna (BA2)                  | TEAR155E01               |
| 84                | Rubber sponge                            | VM230MB001               |
| 85                | Fuse holder (J10)                        | YHF1S3001U               |
| 86                | Fuse (F1), 100-120V: 8A<br>220-240V: 4A  | ZFBQ80202U<br>ZFBQ40205V |
| 87                | AC power receptacle (J1)                 | YJA03S002U               |
| 88                | Accessory AC outlet                      | YJA020005U               |
| 89                | Main selector jack (J4)                  | YJZ10S001U               |
| 90                | " plug (P1)                              | YPZ06S004U               |
| 91                | AC main identification plate (Europe)    | MS636SE001               |
| 92                | Bottom plate                             | MS986SZ018               |
| 93                | Rubber leg                               | VM283NB001               |
| 94                | Cabinet top                              | MB983SX005               |
| 95                | Cabinet grounding bracket                | MS723SS003               |
| 96                | Washer                                   | MS707SB001               |
| 97                | Spacer                                   | MT164SZ005               |
| 98                | Dial escutcheon                          | ME96EAA009               |
| 99                | Rubber sponge                            | VQ211MB001               |
| 100               | Cabinet side, right                      | VS879WT007               |
| 101               | " left                                   | VS879WT008               |
| 102               | Thermostat (Europe only)                 | ZFFP15301A               |
| 103               | LED socket (LD1)                         | YSZ020002U               |
| 104               | AC main identification plate (US/Canada) | MS766SE017               |

### Electrical Parts on Main Chassis: 390R

| Symbol No. | Description  | Part Code  |
|------------|--|------------|
| Q1-4       | Transistor, 2SD745   | QTD0745XAA |
| Q5-8       | " 2SB705   | QTB0705XAA |
| BA1        | 300 Ohm balance coil   | TV750301A2 |
| C1, 2      | US/Canada: Ceramic capacitor, 0.047, 125VAC<br>Europe: Oil-paper capacitor, 0.01, 450VAC | CKDX472PMM |
| C5, 6      | Ceramic capacitor, 0.047   | CKDB473ZFM |
| C7         | Electrolytic capacitor, 47/16  | CEAD470ALX |
| L1, 2      | RFC, 2.2 $\mu$ H   | LCADA3038A |
| L3         | " 150 $\mu$ H  | LF151KA01T |

### Miscellaneous Parts: 390R

| Description                             | Part Code                |
|---|--------------------------|
| Operation manual, US/Canada:<br>Europe: | KT390R**XX<br>KT390R**XE |
| Carton                                  | KP390R**01               |
| Cushoning                               | KN390R**02               |
| Accessory dipole                        | ZAT0015002               |
| AC cord set                             | ACAC034ULA               |

### PSMA030COX [Power Amplifier]: 390R

| Symbol No.  | Description                      | Part Code  |
|-------------|----------------------------------|------------|
| Q1, 2       | Transistor, 2SA798               | QTA0798XEE |
| Q3, 4       | " 2SC2291                        | QTC2291XAE |
| Q5, 6       | " 2SA912                         | QTA0912XAN |
| Q7, 8       | " 2SC1885                        | QTC1885XAN |
| Q9, 10      | " 2SA720                         | QTA0720XBN |
| Q11, 12     | " 2SC1318                        | QTC1318XDN |
| Q13, 14, 26 | " 2SC2240                        | QTC2240XCT |
| Q15, 16, 25 | " 2SA970                         | QTA0970XBT |
| Q17, 18     | " 2SC2238                        | QTC2238XBT |
| Q19, 20     | " 2SA968                         | QTA0968XBT |
| Q27         | " 2SC1509                        | QTC1509XBN |
| D1-10       | Silicon diode, 1N4448            | QDSN4448XZ |
| D11, 15-18  | " RA-1Z                          | QDSRA1ZXXD |
| L1, 2       | RFC, 2.5 $\mu$ H                 | LA3QH1323B |
| RY1         | Relay, speaker protection        | ZRA444103U |
| RV1, 2      | Trimming resistor, 100 (B)       | RPJNB10103 |
| R15, 16     | M-oxide film resistor, 15k, 1/2W | RGHANJ153N |
| R25-28      | " 150, 1/2W                      | RGHANJ151N |
| R43, 44     | " 3.3k, 1/2W                     | RXHANJ332N |

| Symbol No.         | Description             |        |    | Part Code  |
|--------------------|-------------------------|--------|----|------------|
| R45, 46            | M-oxide film resistor,  | 5.6,   | 2W | RX2ANJ5R6N |
| R47, 48            | "                       | 5.6,   | 1W | RX1ANJ5R6N |
| R63, 64            | "                       | 270,   | 2W | RG2ANJ271N |
| R57                | "                       | 1k,    | 2W | RG2ANJ102N |
| R56                | "                       | 4.7k,  | 1W | RG1ANJ472N |
| C1, 2              | Electrolytic capacitor, | 2.2    |    | CEAG2R2ZMN |
| C5, 6              | Ceramic capacitor,      | 2p     |    | CCGB020COT |
| C7, 8              | "                       | 3p     |    | CCGB030DOT |
| C9, 10             | "                       | 5p     |    | CCGB050COT |
| C11, 12            | Electrolytic capacitor, | 100/10 |    | CEWC101ALX |
| C13, 14            | "                       | 10/16  |    | CEWD100ALX |
| C15-18             | Ceramic capacitor,      | 4,700p |    | CKGB472ZFT |
| C22                | "                       | 47p    |    | CCGB470KOT |
| C23-26, 35, 41, 42 | Electrolytic capacitor, | 1/100  |    | CEWK010ALX |
| C29, 30            | "                       | 100/10 |    | CEWC101ALX |
| C31                | "                       | 22     |    | CEAG220AMN |
| C32                | Mylar capacitor,        | 0.047  |    | CQMB473KTH |
| C27, 28            | "                       | 0.056  |    | CQMD563KEH |
| C3, 4, 39, 40      | Ceramic capacitor,      | 33p    |    | CCGB330KOT |
| C37, 38            | "                       | 220p   |    | CCFB221KOT |
| C43-46             | Electrolytic capacitor, | 4.7/25 |    | CEAE4R7ALX |

PSTU038COX [Control Amplifier] : 390R

| Symbol No.    | Description                              |                     |  | Part Code  |
|---------------|--|---------------------|--|------------|
| J1            | Phono 1/2, Aux input RCA jack            |                     |  | YJP06S007U |
| J2, 3         | Tape 1/2 RCA jack                        |                     |  | YJP04S016U |
| J4            | Tape in/out receptacle, DIN-standardized |                     |  | YJD05S011Z |
| S-1           | Function select, rotary switch           |                     |  | SH060606ZA |
| S-2           | Phono Sens switch                        |                     |  | SS020233ZA |
| RV-1          | Trimming resistor,                       | 5k (B)              |  | RPGNB50201 |
| RV-2          | "  | 20k (B)             |  | RPGNB20301 |
| RV-3          | "  | 1k (B)              |  | RPGNB10201 |
| RV-4          | "  | 10k (B), dust-proof |  | RPJNB10302 |
| RV-5          | "  | 200k (B)            |  | RPGNB20401 |
| IC-1          | IC, mu-PC555H,                           | IF amp              |  | QQM00555BA |
| IC-2          | " HA11225,                               | FM IF, quadrature   |  | QQM11225AB |
| IC-3          | " HA1197,                                | mpx demodulate      |  | QQMA1197AB |
| IC-4          | " HA1196,                                | AM tuner            |  | QQMA1196AB |
| Q-1           | Transistor,                              | 2SC1923             |  | QTC1923XAT |
| Q-2-4, 17-20  | "  | 2SC2240             |  | QTC2240XAT |
| Q5, 6, 15, 16 | "  | 2SA970              |  | QTA0970XAT |
| Q7, 8, 11, 13 | "  | 2SC1815             |  | QTC1815XAT |

| Symbol No.                                       | Description                            | Part Code   |
|--|--|-------------|
| Q9, 10, 12                                       | Transistor, 2SC1015                    | QTC1015XAT  |
| Q23  | " 2SD526                               | QTD0526XAT  |
| Q24  | " 2SB596                               | QTB0596XAT  |
| Q25  | " 2SD325                               | QTD0325XAC  |
| D-1-9  | Silicon diode, 1N4448                  | QDSN4448XZ  |
| D-10, 12   | Germanium diode, 1N60                  | QDG1N60XXT  |
| D-13, 14   | Zenner diode, RD39EB4                  | QDZRD39EDA  |
| D-15   | " RD-13E                               | QDZRD13EXA  |
| L-1, 4   | RFC, 2.2 $\mu$ H                       | LCADA3038A  |
| L-2  | " 18 $\mu$ H                           | LF180JC01K  |
| L-5, 6   | " 68 mH                                | LF683JC01K  |
| L-7, 8   | " 56 mH                                | LF563JC01K  |
| L-9, 10  | " 39 mH                                | LF393JC01K  |
| CF-1   | Ceramic filter, SFE10.7MA, 10.7 MHz    | FB10R7F14M  |
| CF-2, 3  | " SFE10.7MU, "                         | FB10R7F15M  |
| T-1  | RFT, FM detect                         | TR10MM013M  |
| T-2  | " "                                    | TR10MM014M  |
| T-3  | " AM RF                                | TR10MM006M  |
| T-4  | RFT + filter, AM IF, 455 kHz           | FBR455A18Q  |
| T-5  | RFT, AM IF, 455 kHz                    | TR07BM001M  |
| T-6  | " AM local osc                         | TR10MZ002M  |
| R87  | M-oxide film resistor, 560, 1/2W       | RGHANJ561N  |
| R88  | " 2.7k, 1/2W                           | RGHANJ272N  |
| R145, 146  | " 3.3k, 1/2W                           | RGHANJ332N  |
| R147, 148  | " 10, 1/2W                             | RGHANJ100N  |
| C1, 21-23, 28, 29, 31, 36                        | Ceramic capacitor, 0.01                | CKFB103ZFT  |
| C2-5, 7-11                                       | " 0.022                                | CKFB223ZFT  |
| C6   | " 4,700p                               | CKGB4727FT  |
| C12, 20, 99, 100                                 | " 33p                                  | CCGB330KOT  |
| C13-17, 24, 32, 37, 39,<br>81, 85, 120, 121, 123 | " 0.047                                | CKFB473ZFT  |
| C18  | Electrolytic capacitor, 0.1            | CEEGR10ZMN  |
| C25, 41  | " 3.3/25                               | CEVE3R3ALX  |
| C26, 49, 50,                                     | " 4.7/25                               | CEVE4R7ALX  |
| C27  | Ceramic capacitor, 0.001               | CKGB102KBT  |
| C28  | Mylar capacitor, 0.01                  | CQMB103KEH  |
| C30  | Electrolytic capacitor, 4.7            | CEEGR47ZMN  |
| C33, 43, 46, 103, 104                            | " 10/16                                | CEVD100ALX  |
| C34  | Styroflex capacitor, 360p              | CQSC361JCF  |
| C35  | Ceramic capacitor, 5p                  | CCGB050DOT  |
| C38  | Electrolytic capacitor, 2.2 (non-pol.) | CEEGR2R2NLX |
| C40, 47, 48                                      | Styroflex capacitor, 510p              | CQSC511JCF  |
| C42  | Electrolytic capacitor, 1              | CEEGR10ZMN  |
| C44  | Ceramic capacitor, 47p                 | CCGB270KOT  |

| Symbol No.     | Description                    | Part Code  |
|----------------|--------------------------------|------------|
| C45            | Electrolytic capacitor, 0.22   | CEEGR22ZMN |
| C51            | " 1                            | CEAG010ALX |
| C52            | " 33/16                        | CEED330ALX |
| C53, 54        | Ceramic capacitor, 1,000p      | CKGB102KBT |
| C55, 56        | Styroflex capacitor, 250p      | CQSC251JCF |
| C57, 58        | Mylar capacitor, 0.0018        | CQMB182KEH |
| C59, 60        | Styroflex capacitor, 1,000p    | CQSC102JCF |
| C61, 62        | Mylar capacitor, 1,500p        | CQMB152KEH |
| C63, 64        | Styroflex capacitor, 1,800p    | CQSC182JCF |
| C65, 66        | " 680p                         | CQSC681JCF |
| C67, 68, 77-79 | Electrolytic capacitor, 0.22   | CEEGR22ZMN |
| C69, 70        | " 0.15                         | CEEGR15ZMN |
| C71, 72        | Ceramic capacitor, 47p         | CCGB470KOT |
| C73, 74        | Electrolytic capacitor, 2.2    | CEEG2R2ZMN |
| C75            | Ceramic capacitor, 100p        | CCGB101KOT |
| C76            | Mylar capacitor, 0.082         | CQMB823KEH |
| C82            | Mylar capacitor, 3,300p        | CQMB332KEH |
| C83, 84        | Ceramic capacitor, 100p        | CCGB101KOT |
| C87, 88        | Electrolytic capacitor, 2.2    | CEEG2R2ZMN |
| C89, 90        | Ceramic capacitor, 10p         | CCGB100DOT |
| C91, 92        | Electrolytic capacitor, 33/10  | CEEC330ZMN |
| C93, 94        | " 22/10                        | CEEC220ZMN |
| C95, 96        | Mylar capacitor, 0.012         | CQMB123GEH |
| C97, 98        | " 0.039                        | CQMB393CEH |
| C101, 102      | Electrolytic capacitor, 10/35  | CEVF100ALX |
| C105, 106      | " 4.7/25 (non-pol.)            | CEAE4R7NLX |
| C107-110       | " 100                          | CEAG101ALX |
| C114, 115      | Ceramic capacitor, 180p        | CCDB181KOM |
| C116           | " 47p                          | CCGB470KOT |
| C121           | Electrolytic capacitor, 220/16 | CEED221ALX |
| C124           | " 220/25                       | CEEE221ALX |
| C127, 128      | Mylar capacitor, 0.01          | CQMB103KEH |

**PSLD026COX [Program LED] : 390R**

| Symbol No. | Description                      | Part Code  |
|------------|----------------------------------|------------|
| Q1         | Transistor, 2SA1015              | QTA1015XAT |
| D1         | Silicon diode, 1N4448            | QDSN4448XZ |
| LD1-5      | LED, Aux/Phono-1, 2, etc.        | QLALP137BC |
| R1         | M-oxide film resistor, 820, 1/2W | RGHANJ821N |
| C1         | Electrolytic capacitor, 4.7/25   | CEVE4R7ALX |

**PSSW076COX [Turn-Over] : 390R**

| Symbol No. | Description             | Part Code  |
|------------|-------------------------|------------|
| C1, 2      | Pushing switch          | SP02YAX10A |
| C3, 4      | Mylar capacitor, 0.0039 | CQMB392KEH |
| C5, 6      | Mylar capacitor, 0.0012 | CQMB122KEH |
| "          | 0.012                   | CQMB124KEH |

**PSSW077COX [Mute] : 390R**

| Symbol No. | Description           | Part Code  |
|------------|-----------------------|------------|
| S1         | Lever switch, 2-p/2-t | SL020215ZB |

**PSTC031COX [Tuner] : 390R**

| Symbol No.      | Description                               | Part Code  |
|-----------------|---|------------|
| VR1, 2          | VR, 100k x 4, Volume/Balance              | RVZA104X01 |
| VR3-5           | " 50k (B), Tone                           | RVQA503B05 |
| S1-3            | Slide switch, 4p-3t, Tape Mon, etc.       | SL040304ZB |
| S4-6            | " 2p-3t, Loudness, etc.                   | SL020215ZB |
| S7, 8           | " 2p-3t, Sub-Sonic, etc.                  | SL020306ZB |
| Q1, 2, 7, 8     | Transistor, 2SC2240                       | QTC2240XAT |
| Q3, 4           | " 2SA970                                  | QTA0970XAT |
| Q5, 6           | " 2SA798                                  | QTA0798XEE |
| R51, 52         | M-oxide film resistor, 5.6k, 1/2W         | RGHANJ562N |
| R55, 56         | " 10, 1/2W                                | RXHANJ100N |
| C1, 2           | Ceramic capacitor, 220p                   | CCFB221KOT |
| C3, 4           | Mylar capacitor, 0.12                     | CQMB124KEH |
| C5, 6           | Ceramic capacitor, 100p                   | CCGB101KOT |
| C7, 8           | Electrolytic capacitor, 1                 | CEEG010ZMN |
| C9, 10          | Ceramic capacitor, 10p                    | CCGB100DOT |
| C11, 12, 41, 45 | " 47p                                     | CCGB470KOT |
| C13, 14         | " 560p                                    | CCFB561KOT |
| C15, 16         | Electrolytic capacitor, 100/10            | CEVC101ALX |
| C17, 18         | " 10/25                                   | CEVE100ALX |
| C19, 20, 81     | " 100                                     | CEEG101ALX |
| C29, 30, 63, 64 | Mylar capacitor, 0.0082                   | CQMB822KEH |
| C33, 36         | " 0.039                                   | CQMB393KEH |
| C37, 38         | " 0.01                                    | CQMB103KEH |
| C39, 40         | Electrolytic capacitor, 4.7/25            | CEEE4R7ZMN |
| C43, 44         | Ceramic capacitor, 27p                    | CCGB270KOT |
| C47, 48         | Electrolytic capacitor, 4.7/25 (non-pol.) | CEAE4R7NLX |
| C51-54          | " 0.33                                    | CEEGR33ZMN |
| C55, 56         | Mylar capacitor, 0.0056                   | CQMB562KEH |
| C57, 58         | " 0.0022                                  | CQMB222KEH |

| Symbol No. | Description                  | Part Code  |
|------------|------------------------------|------------|
| C59-62     | Electrolytic capacitor, 0.15 | CEEGR15ZMN |
| C65, 66    | Mylar capacitor, 0.0033      | CQMB332KEH |

**PSLD025COX [Power Level LED] : 390R**

| Symbol No. | Description               | Part Code  |
|------------|---------------------------|------------|
| IC1        | IC, TA7318P-2             | QQM07318AT |
| IC2, 3     | " TA7612P                 | QQM07612AT |
| RV1, 2     | Trimming resistor, 100    | RPGNB10402 |
| LD1-18     | LED, SLP137B              | QLALP137BC |
| Q1, 2      | Transistor, 2SC1685       | QTC1685XAN |
| RV3, 4     | Trimming resistor, 50k    | RPGNB50302 |
| C1, 2      | Electrolytic capacitor, 1 | CEEC010ALX |
| C3         | Mylar capacitor, 0.1      | CQMB104KEH |
| C4, 5      | " 0.01                    | CQMB103KEH |
| C6         | Electrolytic capacitor, 1 | CEEG010ALX |

**PSPW036COX [Power Supply] : 390R**

| Symbol No. | Description                     | Part Code  |
|------------|---------------------------------|------------|
| Q1         | Transistor, 2SA1015             | QTA1015XAT |
| Q2         | " 2SC1815                       | QTC1815XAT |
| D1         | Silicon diode, SS-7             | QDSSS7XXXD |
| D2         | " SS-7R                         | QDSSS7RXXD |
| D3         | " RA-1Z                         | QDSRA1ZXXD |
| D4         | " 1N4448                        | QDSN4448XZ |
| R1, 2      | M-oxide film resistor, 3.3k, 3W | RG3ANJ332N |
| R5         | " 470, 1/2W                     | RGHANJ471N |
| R8         | " 15, 3W                        | RX3ANJ150N |
| R9         | " 180, 1/2W                     | RGHANJ181N |
| C1, 2      | Ceramic capacitor, 0.01, 500V   | CKDE103PEM |
| C3         | Electrolytic capacitor, 4.7/25  | CEEE4R7ALX |
| C4         | " 1,000/25                      | CEAE102ALX |
| C5         | Fuse housing                    | YHFOP0003Z |

**PSLD016COX [FM Stereo LED] : 390R**

| Symbol No. | Description  | Part Code  |
|------------|--------------|------------|
| LD1        | LED, SLP137B | QLALP137BC |

**PSZQ008COX [Final Power TR] : 390R**

| Symbol No. | Description                      | Part Code  |
|------------|----------------------------------|------------|
| R1, 2      | M-oxide film resistor, 5.6, 1/2W | RXHANJ5R6N |
| R3, 4      | Cement resistor, 0.47, 3W        | RF03SKR478 |
| C1, 2      | Electrolytic capacitor, 1/100    | CEAK010ALX |
| D1         | Quadruple diode array, STV-4H    | QVFSTV4HXD |