

price \$6.00

SERVICE MANUAL

stereo components

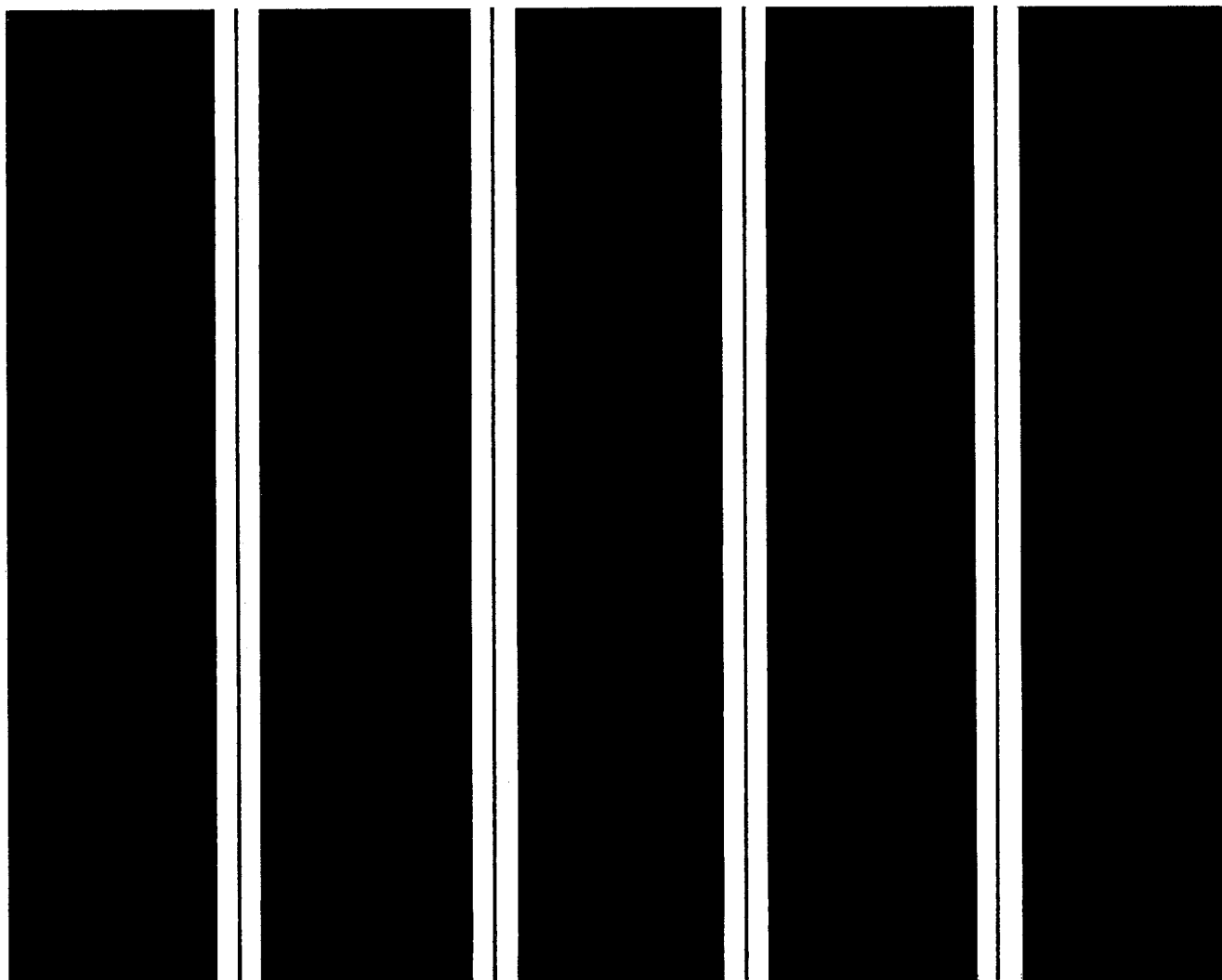
R-316

R-316L

R-326

T-526

T-526L



W SCOTT [®] ... where innovation is a tradition

H. H. SCOTT, INC., 111 Powder Mill Road, Maynard, Massachusetts 01754, Tel. 617 897-8801

AUDIO SPECIFICATIONS

R316, R326 R316L

Output Power

R316 . . 20 watts per channel min. RMS at 8 ohms from 40-20,000 Hz with no more than 0.5% total harmonic distortion.
 R326 . . 30 watts per channel min. RMS at 8 ohms from 40-20,000 Hz with no more than 0.5% total harmonic distortion.

Input Sensitivity

| | | |
|-------------------------|--|--------|
| Phono | | 2.5 mV |
| Mic | | 6.0 mV |
| Aux | | 160 mV |
| Tape Recorder | | 160 mV |

Signal-to-Noise

| | | |
|-----------------|--|-------|
| Phono | | 60 dB |
| Mic | | 65 dB |
| Aux | | 75 dB |

Frequency Response 15 Hz to 35 kHz

Phono Response RIAA +1 dB

Phono Overload 60 mV

Max. Input Signal Phono (IHF) 42 dB

Input Impedance

| | | |
|-----------------|--|-------------|
| Phono | | 47,000 ohms |
| Aux | | 60,000 ohms |
| Tape | | 60,000 ohms |

| | | |
|------------------------------|--|-------|
| Cross Talk @ 1 kHz | | 45 dB |
| @10 kHz | | 35 dB |

Rated Harmonic Distortion

| | | |
|----------------|--|------|
| R316 | | 0.5% |
| R326 | | 0.5% |

Intermodulation Distortion

| | | |
|----------------|--|-------|
| R316 | | 0.15% |
| R326 | | 0.1% |

From 0.5 Watts to rated equivalent sine wave power at 8 ohms with both channels operating.

CONTROLS

| | | |
|--------------------------------|---------------------------------|--------------|
| Bass Control Range | <u>+10.5</u> dB (<u>+1</u> dB) | 100 Hz |
| Treble Control Range | <u>+10.7</u> dB (<u>+1</u> dB) | 10 kHz |
| High Filter | 3.5 dB at 10 kHz | <u>+1</u> dB |
| Low Filter, R326 | 7.5 dB at 100 Hz | <u>+1</u> dB |
| Loudness Comp | 3.5 dB at 10 kHz | <u>+1</u> dB |
| | 7.5 dB at 100 Hz | <u>+1</u> dB |

FM TUNER SECTION

Usable Sensitivity

Mono 7.0 dBf (2.5 μ V)
 Stereo 24 dBf (18 μ V)

50 dB Quieting Sens.

Mono 10 dBf (3.5 μ V)
 Stereo 36 dBf (70 μ V)

Signal-to-noise @ 65 dBf

Mono 68 dB
 Stereo 65 dB

Frequency Response 30-15,000 Hz

Mono +2 dB
 Stereo +2 dB

Distortion @ 65 dBf

Mono 0.3%
 Stereo 0.5%

Alternate Channel Selectivity 52 dB

Stereo Separation

100 Hz 36 dB
 1,000 Hz 40 dB
 10,000 Hz 34 dB

Tuning Range 87.5-108 MHz
 Deemphasis (switchable) 25, 50 & 75 μ S
 Tuning Indicators Meter, Signal Strength & Center Tune*
 Interstation Muting Switchable
 Stereo Threshold 7-15 μ V Preset
 Muting Threshold 7-15 μ V Preset (switchable, On-Off)
 Antenna Input 300 ohm Balanced, 75 ohm Unbalanced

AM TUNER SECTION

Usable Sensitivity 200 μ V/m
 Selectivity 35 dB min.
 Signal-to-noise Ratio 50 dB
 Total Harmonic Distortion (40% modulation) 2.0%
 Tuning Indicator Meter
 Antenna Built-in Ferrite Loopstick
 Tuning Range 535 kHz-1605 kHz
 Long Wave Tuning Range 150 kHz-350 kHz

*signal strength meter only, in Model R316

GENERAL SPECIFICATIONS

Power Line Requirement 120 Volts, 60 Hz

Power Consumption

| | | |
|----------------|---------------|----------------|
| R316 | 25 Watts min. | 205 Watts max. |
| R326 | 28 Watts min. | 270 Watts max. |

Dimensions 18 7/16 x 15 3/16 x 5 5/8 inches
. 466 x 390 x 142 mm.

Weight

| | | |
|----------------|-----------|----------|
| R316 | 25.5 lbs. | 11.6 kg. |
| R326 | 26.5 lbs. | 12 kg. |

Shipping Weight Add 4 lbs. 1.82 kg for container and materials.

AUDIO SPECIFICATIONS

T526

Output Impedance

| | |
|--|---------------------|
| Tape Output and Fixed Output | 10,000 ohms |
| Adjustable Output | Approx. 10,000 ohms |

Output Level

| | |
|--|------------------------|
| Tape Output and Fixed Output | 0.5 Volts @ 400 Hz |
| Adjustable Output | 0 - 0.5 Volts @ 400 Hz |

GENERAL SPECIFICATIONS

Power Line Requirement 120 Volts, 60 Hz

Power Consumption 15 Watts

Dimensions 15 3/4 x 13 3/4 x 5 5/8 inches
. 400 x 350 x 142 mm.

Weight 16.5 lbs. 7.5 kg.

Shipping Weight Add 3 1/4 lbs. 1.5 kg. for container and materials.

POWER LINE REQUIREMENT

Models R316L & T526L 100V, 120V, 220V, or 240V
. 50 or 60 Hertz

TEST AND ALIGNMENT PROCEDURES

RECOMMENDED EQUIPMENT

(or equivalent)

1. AC vacuum tube Voltmeter (H.P. 400D)
2. DC millivolt meter (Fluke 8000A)
3. Oscilloscope
4. Volt-Ohm meter (Triplett model 630)
5. Harmonic Distortion meter (H.P. 331A)
6. AM Signal Generator (H.P. 606A)
7. FM Signal Generator (Measurements Corp. model 88)
8. Multiplex Generator (Scott model 830)
9. Audio Oscillator (H.P. 200 CD)
10. Standard AM dummy antenna (200 μ F ceramic or mica capacitor)
11. Standard FM dummy antenna for 300 ohm balanced input (see circuit, Figure FM-1)
12. Suitable alignment tools, cables, etc.
13. Two 8 ohm resistive loads, compensated for L & C (min. 50W)
14. Variable power line transformer (General Radio 5A)
15. Suitable line Voltage and current monitoring meters

Note: Equipment specifications are minimum.

Set controls to following positions for test procedure. Deviate from these settings as instructed in the test procedures. Return to these settings at the beginning of each new test. All tests are to be made with 117V AC line. Unless otherwise specified, supply input to both channels and read both outputs.

Front Panel

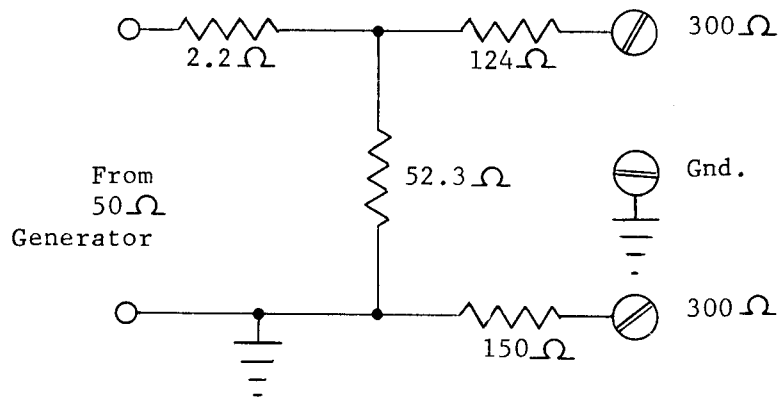
| | |
|----------------|--------------------|
| Input Selector | Aux |
| Tone Controls | Flat (12 O'clock) |
| Loudness | Minimum (full CCW) |
| Balance | 12 O'clock |
| Speaker #1 | On |

Note: When troubleshooting defective power circuits, it is sometimes useful to switch a small line voltage lamp in series with equipment under test before applying power. The lamp will limit the current drawn, thus preventing further damage to circuit components. The variable power line transformer is also useful to determine if additional short circuits exist, if used with a power line current and Volt meter.

Note: When power line voltages other than 120 V.A.C. are used for testing, be sure voltage selector in the unit is set to the appropriate position and that equivalent test equipment is used.

Where a standard FM antenna matching network is not available for the particular signal generator in use, a suitable network can be assembled on a small phenolic, or plastic board, using the circuit below.

The completed assembly should use short leads for connection to the receiver antenna terminals. Some generator cables may permit the circuit block to be attached directly to the cable terminals.



Note: All resistors are 1/2 Watt, carbon composition, selected on a DVM, or Wheatstone bridge.

NOTE: Models R-316L and T-526L are designed to tune two AM frequency bands. See tuning ranges listed on page 2.
 In model R-316L, band switches replace FILTER AM and FILTER MPX.
 In model T-526L, band switches replace DIM switch and DE-EMP switch.

| TEST | INPUT | CONTROL SETTINGS | TEST EQUIPMENT | SCALE SETTINGS | MEASURE AT | | READINGS | TOL. |
|-----------------------------------|-----------------|--|--------------------|----------------|---------------------------------|----------------------------|---|-----------------------------------|
| | | | | | POSITIVE PROBE | NEGATIVE PROBE | | |
| NPN Output transistor Q807 & Q817 | None Unit "OFF" | | Triplet 630A | Ohms X 1000 | + Filter cap | P809 P806 | 9K | <u>+1K</u> |
| NPN Output transistor Q810 & Q820 | None Unit "OFF" | | Triplet 630A | Ohms X 1000 | P809 P806 | - Filter cap | 700 ohms | <u>+1K</u> <u>+200</u> ohms |
| B+ Supply | None Unit "ON" | Volume "Minimum" Selector "FM" | Triplet 630A | Volts | + Filter cap | Chassis | R316 - 26V R326 - 32V T526 - 24V | <u>+15%</u> |
| B- Supply | None Unit "ON" | Volume "Minimum" Selector "FM" | Triplet 630A | Volts 60 DC | Chassis | - Filter cap | R316 - 26V R326 - 32V | <u>+15%</u> |
| Regulated B+ Voltage | None Unit "ON" | Volume "Minimum" Selector "FM" | Triplet 630A | Volts 60 DC | P901 Regulator/ Supply Board | Chassis | +13V DC | <u>+10%</u> |
| Output Offset Voltage | None Unit "ON" | Volume "Minimum" Selector "Aux" | DC Milli-Voltmeter | 100mV | Speaker #A "L" | Speaker #A "C" | <u>+100mV</u> max. | Max. |
| Bias Check | None Unit "ON" | None, if necessary, adj. padding resistor across R808 L. Ch. R830 R. Ch. | Triplet 630A | 12mA DC only | "E" of Q807 "E" of Q817 | "C" of Q810 "C" of Q820 | Adjust pad for 0.2mA DC nominal Unit temperature approx. 100°F, 42°C | +100% -0 |

AUDIO TEST PROCEDURE

| TEST | INPUT | CONTROL SETTINGS | TEST EQUIPMENT | SCALE SETTINGS | MEASURE AT | | READINGS | TOL. |
|--|--|--|----------------------|--------------------|---|--------------------------------------|---|----------------|
| | | | | | POSITIVE PROBE | NEGATIVE PROBE | | |
| Speaker A Audio Level 8 ohm | 1000 Hz Aux. | Selector "Aux." Mono Switch "In" Volume "Maximum" | AC VTVM Scope | 30V 10V/DIV | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Adjust input signal for output of: R-316 - 12.7V R-326 - 15.5V (No Clipping permitted) | +1 dB -0 dB |
| Tape 1 Inputs Tape 2 Inputs | Tape 1 in 1000 Hz Tape 2 in 1000 Hz | Tape Monitor Switch "Monitor" (Volume Maximum) | AC VTVM | 30V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Same as above | |
| Tape Monitor Output | Aux. | Selector "Aux." Volume "Minimum" | AC VTVM | 1V | Tape Out | Ground | Output of 0.15V with input of 0.15V | |
| Audio Level 8 ohm | Aux. 1000 Hz | Selector "Aux." Mono Switch "Mono" Volume "Maximum" Spkr. B. On | AC VTVM | 30V | Speaker B "L" 8 ohm load high | Speaker B "G" 8 ohm load low | Adjust input signal for output of: R-316 - 12.7V R-326 - 15.5V (No Clipping permitted) | |
| Check Spkr. A & B | Same as above | As above except Spkr. A & B | AC VTVM | 30V | Speakers A & B "L" & "R" 8 ohm load high | Speakers A & B "G" 8 ohm load low | Output check only, check at low level | |
| Frequency Response Power Amp & Tone Control | Aux. | Tone Control "Flat" Volume "Maximum" Adjust balance for center | AC VTVM | 1V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Adjust input for 0 dB (.775V) output (3 dB down points should be below 10 Hz and above 30 kHz) | +1dB |

AUDIO TEST PROCEDURE

| TEST | INPUT | CONTROL SETTINGS | TEST EQUIPMENT | SCALE SETTINGS | MEASURE AT | | READINGS | TOL. |
|--|--------------------------------|--|----------------|----------------|-------------------------------------|------------------------------------|---|--------------------------------------|
| | | | | | POSITIVE PROBE | NEGATIVE PROBE | | |
| Frequency Response Phono (RIAA) | Phono 1000 Hz | Selector "Phono" Keep setting listed above | AC VTVM | 1V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Adjust input for 0 dB (.775V) output Note: 100 Hz +12.5 dB 10 kHz -13.0 dB | <u>+1.5</u> dB |
| Tone Control Response | Aux. 1000 Hz | Selector "Aux." Mode Switch "Mono" Tone Control "Flat" | AC VTVM | 3V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Adjust input for 0 dB (.775V) output Note: @ 100 Hz Bass boost +10 dB Bass cut -10 dB @ 10 kHz Treble boost +10 dB Treble cut -10 dB | <u>+1.5</u> dB <u>+1.5</u> dB |
| Loudness Compensation | Aux. 1000 Hz | Selector "Aux." Tone Control "Flat" Volume "11 O'clock" Loudness Sw. "on" | AC VTVM | 3V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Adjust input for 0 dB. Frequency, to 10 kHz; Note 3 dB increase. Frequency to 100 Hz; Note 7 dB increase | <u>+1</u> dB <u>+1</u> dB |
| Crosstalk | Aux. Left Channel 10 kHz | Selector "Aux." Tone Control "Flat" Comp. Sw. "Off" Volume "Maximum" Mode Switch "Stereo" | AC VTVM | 3V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Set output for 0 dB Read right channel output 35 dB down | Min. |

AUDIO TEST PROCEDURE

| TEST | INPUT | CONTROL SETTINGS | TEST EQUIPMENT | SCALE SETTINGS | MEASURE AT | | READINGS | TOL. |
|---|---|---|---|----------------|-------------------------------------|------------------------------------|---|--------------|
| | | | | | POSITIVE PROBE | NEGATIVE PROBE | | |
| Balance Control | Aux. Left Channel 1000 Hz | Selector "Aux." Tone Control "Flat" Comp. Sw. "Off" Volume "Maximum" Mode Switch "Mono" Balance CCW | AC VTVM | 3V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Set output for 0 dB Note 45 dB drop in output, right chan. | <u>+2</u> dB |
| | | Balance CW | | | " | " | Note 45 dB drop in output, left chan. | <u>+2</u> dB |
| Harmonic* Distortion | Aux. 20 Hz * 1000 Hz 20,000 Hz *(R316 & R326 - 40 Hz) | Selector "Aux." Mode Switch "Mono" Balance "Center" Volume "Maximum" | AC VTVM Harmonic Distortion Analyzer | 30V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Adjust input for output @ both chan. R316 - 12.7V R326 - 15.5V | 0.5% |
| *Note: Power line Voltage 120 VAC \leq 2.0% line THD. When transformer primary is connected for other than 120 Volts, use appropriate supply voltage. | | | | | | | | |
| Damping Factor | Aux. 1000 Hz | Selector "Aux." Mode Switch "Mono" Balance "Center" Volume "Maximum" | AC VTVM | 3.0V | Speaker A "L" 8 ohm load high | Speaker A "G" 8 ohm load low | Set output to 2.45V (+10 dB) Remove load and note increase in level Max. 0.5 dB | |

**AM MW
TEST PROCEDURE**

| STEP | ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | INPUT SELECTOR SWITCH | DIAL SETTING | TEST INSTRUMENTS | ADJUST | REMARKS |
|------|--|--|-------------------------------|-----------------------|---------------------------------|------------------------------------|---|---|
| 1. | Connect external antenna terminal thru 220 pF dummy antenna | External antenna terminal. Keep signal level low. | 455 kHz 60% mod. 400 Hz | AM MW | Approx. 600 kHz (No sta.) | Scope, VTVM @ Tape Output | I.F. coils T207 T208 | Adjust for maximum signal output |
| 2. | Same as above | Same as above | 600 kHz | Same | 600 kHz | Same | AM MW Osc. T203 | Adjust for calibration |
| 3. | Same as above | Same as above | 1400 kHz | Same | 1400 kHz | Same | AM MW Osc. Trimmer AM1 (F.E. ass'y) | Adjust for calibration |
| 4. | Same as above | Same as above | 1400 kHz | Same | 1400 kHz | Same | MW R.F. Trimmers AM2, AM3 (F.E. ass'y) | Adjust for maximum signal |
| 5. | Same as above | Same as above | 600 kHz | Same | 600 kHz | Same | MW Antenna slider under bracket (See figure) | Adjust for maximum signal (soften wax, then reseal) |
| 6. | Repeat steps 2, 3, 4, 5 for maximum. | | | | | | | |
| 7. | Same as Step 1 | 300 μ V | 1400 kHz 60% mod. | AM MW | 1400 kHz | VTVM & Distortion Analyzer | Detector T209 | Adjust for maximum undistorted output (1% or less). Output should fall between 600 and 800 mV. |
| 8. | Whistle Filter Alignment: Connect output of audio oscillator to junction of R215 & C225. Set oscillator frequency to 1.0 kHz, adjust audio oscillator output for 1.0 Volt at tape output. Change oscillator frequency to 9.5 kHz and adjust T210 for minimum output. | | | | | | | |

**AM LW
TEST PROCEDURE**

| STEP | ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | INPUT SELECTOR SWITCH | DIAL SETTING | TEST INSTRUMENTS | ADJUST | REMARKS |
|---|----------------|---------------------------|----------------------------|-----------------------|---------------------------|---|--|---|
| 9. | Same as Step 1 | Same as Step 1 | 150 kHz | AM LW | 150 kHz | Same as Step 1 | AM LW Osc. T204 | Adjust for calibration |
| 10. | Same as above | Same as above | 350 kHz | Same | 350 kHz | Same | AM LW Osc. Trimmer C236 | Adjust for calibration |
| 11. | Same as above | Same as above | 350 kHz | Same | 350 kHz | Same | LW R.F. Trimmers C235, C237 | Adjust for maximum signal |
| 12. | Same as above | Same as above | 150 kHz | Same | 150 kHz | Same | LW Antenna slider under bracket (See figure) | Adjust for maximum signal (soften wax, then reseal) |
| 13. Repeat steps 9, 10, 11, 12 for maximum. | | | | | | | | |
| 14. | Same as Step 1 | Same as Step 1 | 455 kHz | AM LW | Approx. 350 kHz (No sta.) | Scope, probe at IC PIN 1 (μ A 720) | 455 kHz trap T206 | Tune for Null |
| NOTE: AM IF is aligned at the factory using sweep generator. Do not disturb coil adjustment unless replacement coils are installed. Align new coil using 5 kHz generator modulation. Adjust for maximum audio output. | | | | | | | | |

FM
TEST PROCEDURE

| STEP | ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | INPUT SELECTOR SWITCH | DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
|------|--|---|--|-----------------------|--|--------------------------|---|---|
| 1. | Dummy antenna Figure FM-1 | External 300 ohm term. Use low signal level | 10.7 MHz 100% mod. | FM | Off Station | VTVM @ Tape Output | Front End IF | Adjust for maximum signal strength meter indication |
| 2. | Same as above | Same as above | 90 MHz 1 kHz Modulation. Keep generator output low. | Same | 90 MHz | Same | Front End LO | Adjust for dial calibration |
| 3. | Same as above | Same as above | Same | Same | Same | Same | Front End LA LR ₁ LR ₂ | Adjust for maximum audio output. Keep signal level low. |
| 4. | Same as above | No output Same as above | Same | Same | Off Station Use noise only | Same | Detector T102 | Use center tune meter (R326). R316 use DC VTVM connected, negative to ground, positive to P106. Adjust for zero DC Volts. |
| 5. | Same as above | External 300 ohm term. Use low signal level | 90 MHz | FM | 90 MHz | VTVM @ Tape Output | T101 | Adjust for maximum output and minimum distortion |
| 6. | Same as above | Same as above | 106 MHz Keep Generator output low | Same | 106 MHz | Same | TCO | Adjust for dial calibration |
| 7. | Same as above | Same as above | 106 MHz | Same | 106 MHz | Same | TCA, TCR ₁ and TCR ₂ | Adjust for maximum audio output, keep input level low for noisy signal |
| 8. | Repeat steps 2, 3, 6 and 7 until no further improvement is noted. Check specification. | | | | | | | |

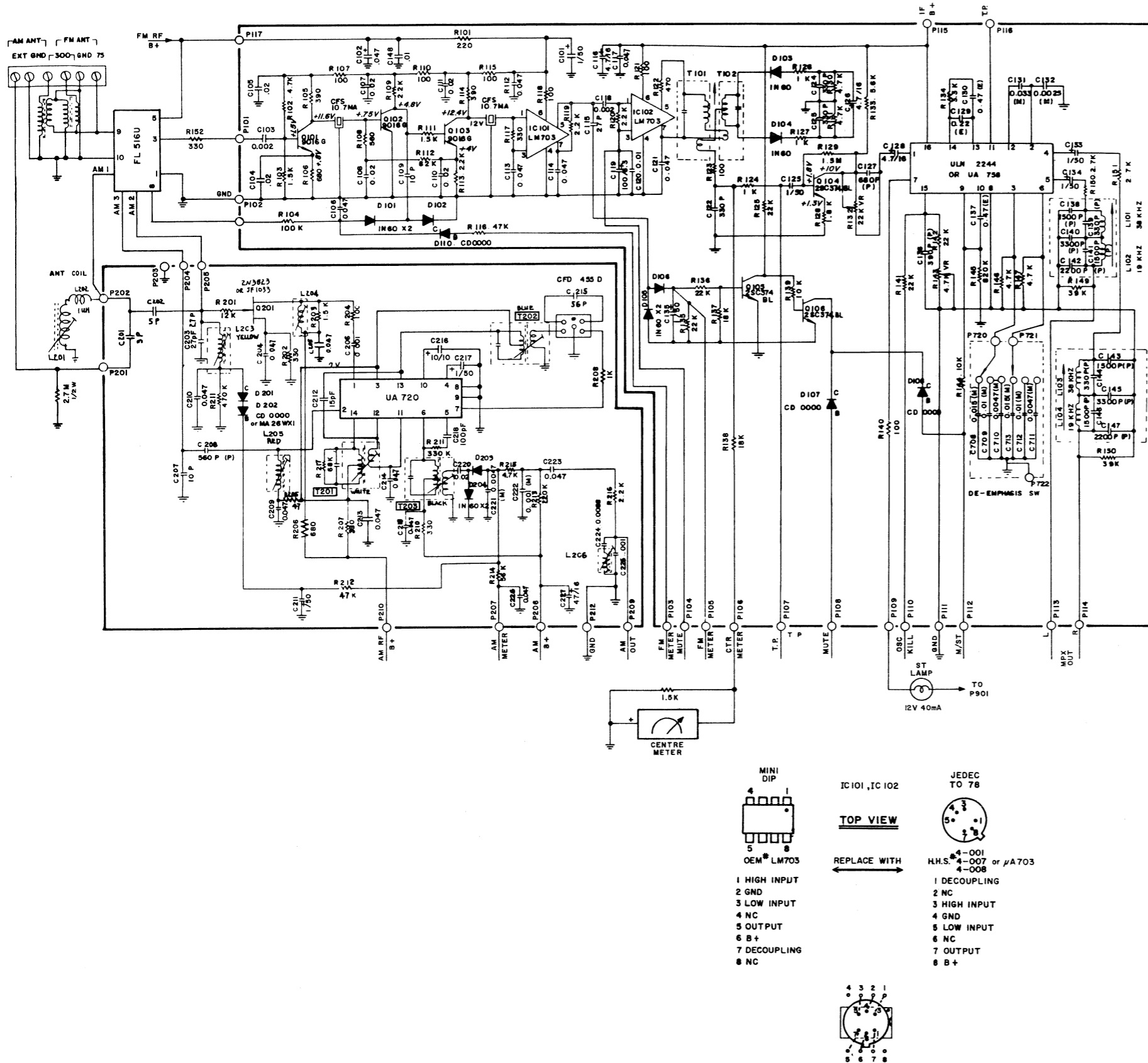
MULTIPLEX
USE 19 kHz OUTPUT OF MX GENERATOR TO TRIGGER OSCILLOSCOPE HORIZONTAL

| STEP | ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | INPUT SELECTOR SWITCH | DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
|------|---|---------------------------|----------------------------|-----------------------|-----------------|--------------------------|------------------------------------|--|
| 1. | Dummy antenna Figure FM-1 | External 300 ohm term. | Use conven- ient freq. | FM | Tune to Gen. | VTVM @ Tape Output | R143 for stationary waveform | Generator output to zero. Scope Vertical to P116. Muting on (19 kHz Osc. adj.) |
| 2. | Same as above | Same as above | Same | FM Stereo | Same | Same | | Generator output 1.0mV Note waveform is synchronized |
| 3. | Same as above | Same as above | Same | Same | Same | Same | R132 | Adjust for maximum separation |
| 4. | Note: Multiplex filter coils L101, L102, L103 and L104 are pre-aligned. Do not adjust unless circuit component is replaced. If necessary, adjust for null at specified frequency. | | | | | | | |

DEEMPHASIS: With output level reference at 400 Hz, switch modulation frequency to 10 kHz. Output level as follows: ± 1 dB

| | |
|------------|---------|
| 75 μ S | 13.7 dB |
| 50 μ S | 9.5 dB |
| 25 μ S | 4.5 dB |

**SCHEMATIC DIAGRAM
TUNER SECTION
R316, R326**

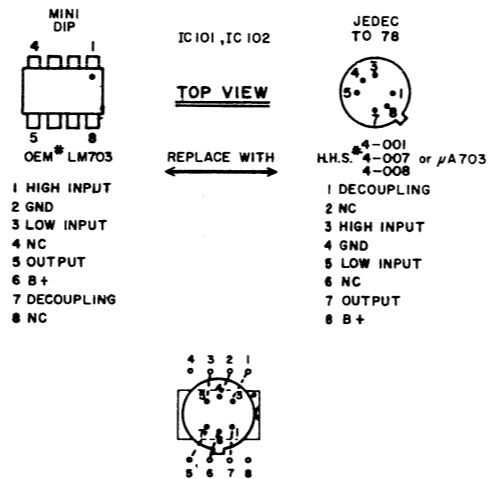


TUNER SECTION SEMICONDUCTOR LIST

| | |
|---------------------------------|-------------------------|
| Q101, Q102, Q103 | CS 9016G or SE 1001 |
| Q104, Q105 | 2SC 374 or CS 9014C |
| Q106 | 2SC 374 or CS 9014C |
| IC101, IC102 | LM 703 or μ A 703 |
| Q201 | 2N 3823 or JF 1033 |
| AM Integrated Circuit | μ A 720 |
| Multiplex IC | μ A 758 or ULN 2244 |

DC VOLTAGES AT INTEGRATED CIRCUIT PINS

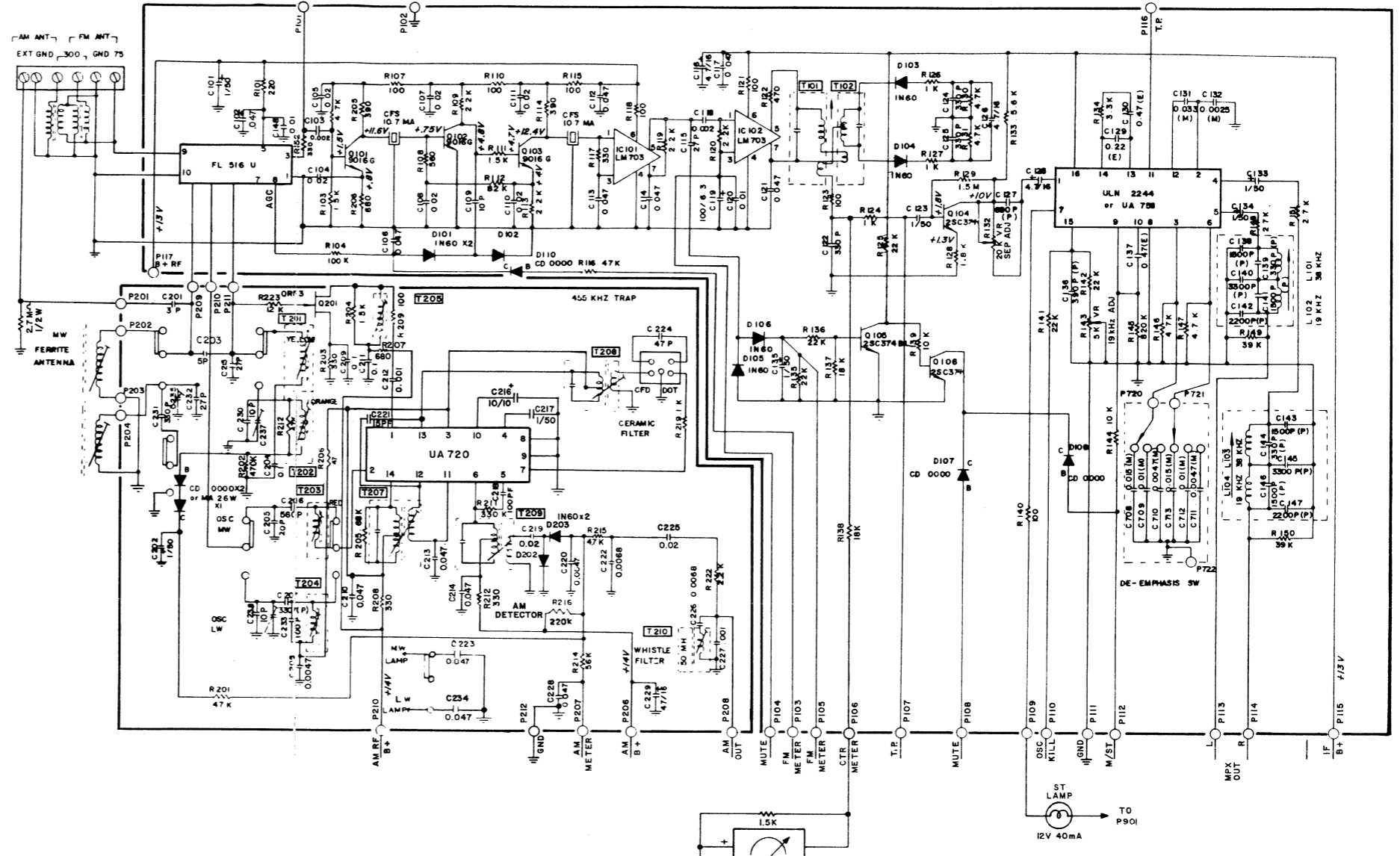
| PIN# | IC101 | IC102 | μ A 758 | μ A 720 |
|------|-------|-------------------------------|------------------------------|-------------|
| 1 | 1.4V | 1.4V | 3.2V | 5V |
| 2 | — | — | 4.6V | 7.3V |
| 3 | 1.4V | 1.4V (station) 0.9V (mute) | 5.2V | 7.4V |
| 4 | 0V | 0V | 4.5V | 5V |
| 5 | 11.4V | 11.4V | 4.5V | 0.2V |
| 6 | 13V | 13V | 5.0V | 12V |
| 7 | 12V | 12V | 13.7V | 0.8V |
| 8 | — | — | 0V | 0V |
| 9 | — | — | 1.5V (mono) 2.8V (stereo) | 0V |
| 10 | — | — | 2.8V | 0.7V |
| 11 | — | — | 1.8V | 0.7V |
| 12 | — | — | 2.7V | 0.7V |
| 13 | — | — | 2.8V | 12V |
| 14 | — | — | 2.8V | 13V |
| 15 | — | — | 2.5V | — |
| 16 | — | — | 13.7V | — |



**SCHEMATIC DIAGRAM
TUNER SECTION
R316L**

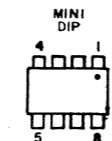
TUNER SECTION SEMICONDUCTOR LIST

Q101, Q102, Q103 CS 9016G or SE 1001
 Q104, Q105 2SC 374 or CS 9014C
 Q106 2SC 374 or CS 9014C
 IC101, IC102 LM 703 or μ A 703
 Q201 2N 3823 or JF 1033
 AM Integrated Circuit μ A 720
 Multiplex IC μ A 758 or ULN 2244

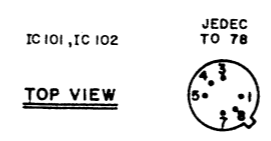


DC VOLTAGES AT INTEGRATED CIRCUIT PINS

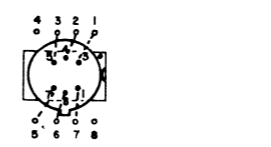
| PIN# | IC101 | IC102 | μ A 758 | μ A 720 |
|------|-------|-------------------------------|------------------------------|-------------|
| 1 | 1.4V | 1.4V | 3.2V | 5V |
| 2 | | | 4.6V | 7.3V |
| 3 | 1.4V | 1.4V (station) 0.9V (mute) | 5.2V | 7.4V |
| 4 | 0V | 0V | 4.5V | 5V |
| 5 | 11.4V | 11.4V | 4.5V | 0.2V |
| 6 | 13V | 13V | 5.0V | 12V |
| 7 | 12V | 12V | 13.7V | 0.8V |
| 8 | | | 0V | 0V |
| 9 | | | 1.5V (mono) 2.8V (stereo) | 0V |
| 10 | | | 2.8V | 0.7V |
| 11 | | | 1.8V | 0.7V |
| 12 | | | 2.7V | 0.7V |
| 13 | | | 2.8V | 12V |
| 14 | | | 2.8V | 13V |
| 15 | | | 2.5V | |
| 16 | | | 13.7V | |



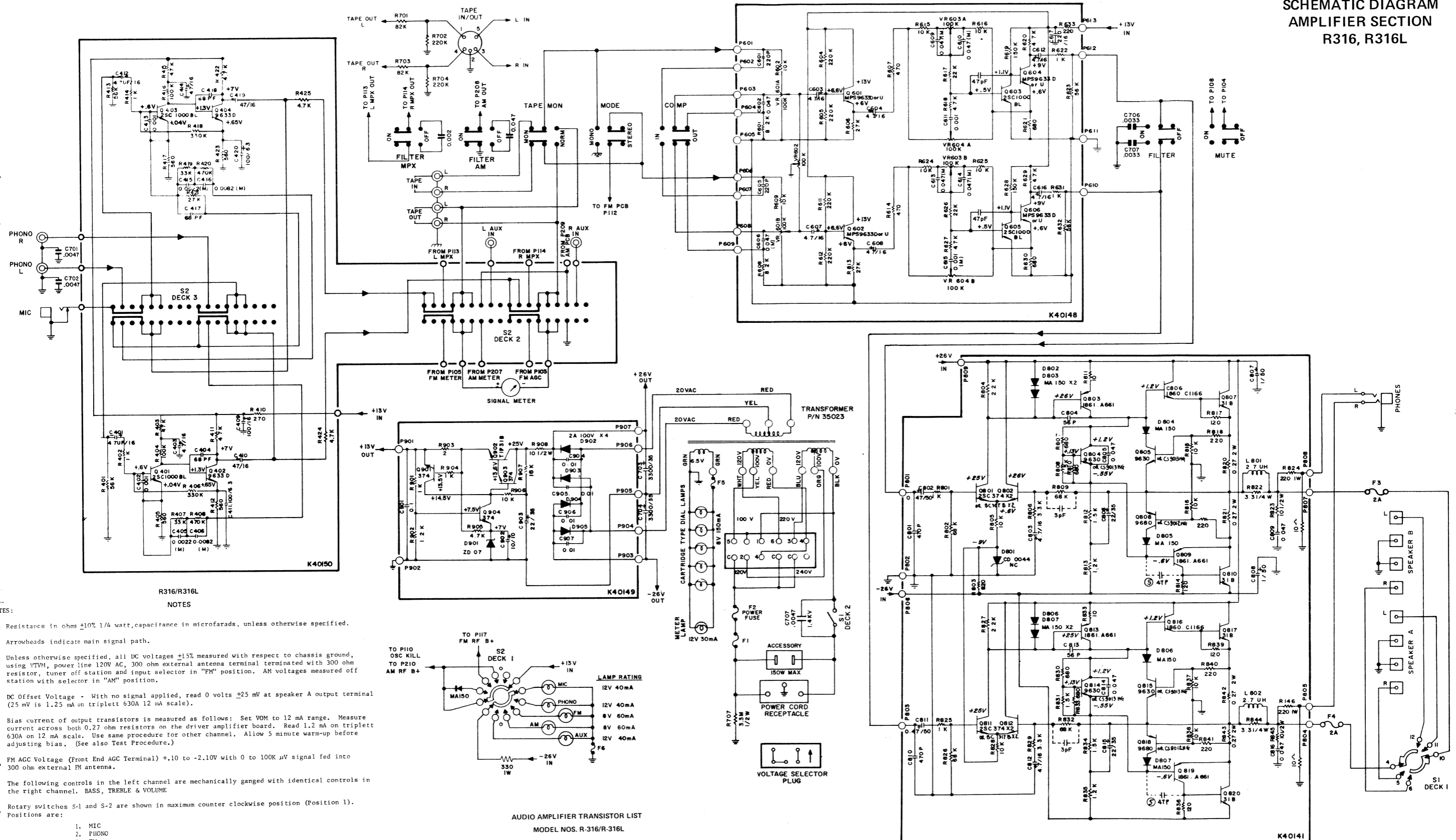
- OEM* LM703
- 1 HIGH INPUT
 - 2 GND
 - 3 LOW INPUT
 - 4 NC
 - 5 OUTPUT
 - 6 B+
 - 7 DECOUPLING
 - 8 NC



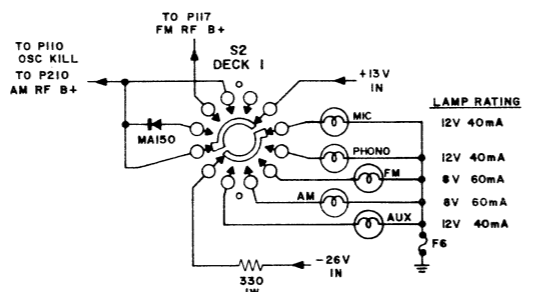
- REPLACE WITH
- 1 DECOUPLING
 - 2 NC
 - 3 HIGH INPUT
 - 4 GND
 - 5 LOW INPUT
 - 6 NC
 - 7 OUTPUT
 - 8 B+



SCHEMATIC DIAGRAM
AMPLIFIER SECTION
R316, R316L



- NOTES:
- Resistance in ohms $\pm 10\%$ 1/4 watt, capacitance in microfarads, unless otherwise specified.
 - Arrowheads indicate main signal path.
 - Unless otherwise specified, all DC voltages $\pm 15\%$ measured with respect to chassis ground, using VTVM, power line 120V AC, 300 ohm external antenna terminal terminated with 300 ohm resistor, tuner off station and input selector in "FM" position. AM voltages measured off station with selector in "AM" position.
 - DC Offset Voltage - With no signal applied, read 0 volts ± 25 mV at speaker A output terminal (25 mV is 1.25 mA on tripplet 630A 12 mA scale).
 - Bias current of output transistors is measured as follows: Set VOM to 12 mA range. Measure current across both 0.27 ohm resistors on the driver amplifier board. Read 1.2 mA on tripplet 630A on 12 mA scale. Use same procedure for other channel. Allow 5 minute warm-up before adjusting bias. (See also Test Procedure.)
 - FM AGC Voltage (Front End AGC Terminal) $+1.0$ to -2.10 V with 0 to 100K μ V signal fed into 300 ohm external FM antenna.
 - The following controls in the left channel are mechanically ganged with identical controls in the right channel. BASS, TREBLE & VOLUME
 - Rotary switches S-1 and S-2 are shown in maximum counter clockwise position (Position 1). Positions are:
 - MIC
 - PHONO
 - FM
 - AM
 - AUX
- (Front decks shown from knob end and rear decks shown from end opposite knob.)
- Power Switch is mechanically ganged to speaker selector switch.
 - Indicator lamp for LW and MW in long wave models are wired directly to AM P.C. board.
1. Fuses
- Speaker 2.0A Normal blow
Dial and Function Lamp Suitable lengths of #38 SWG copper wire (0.006 inch, 0.15mm dia.)
Power F-1 100-120V . . . 1.5A Slow blowing time delay type
Power F-2 220-240V . . . 0.75A Slow blowing time delay type
Time delay type -- 2.0A Pigtail leads, wired internally.
(May not be used in all production units)



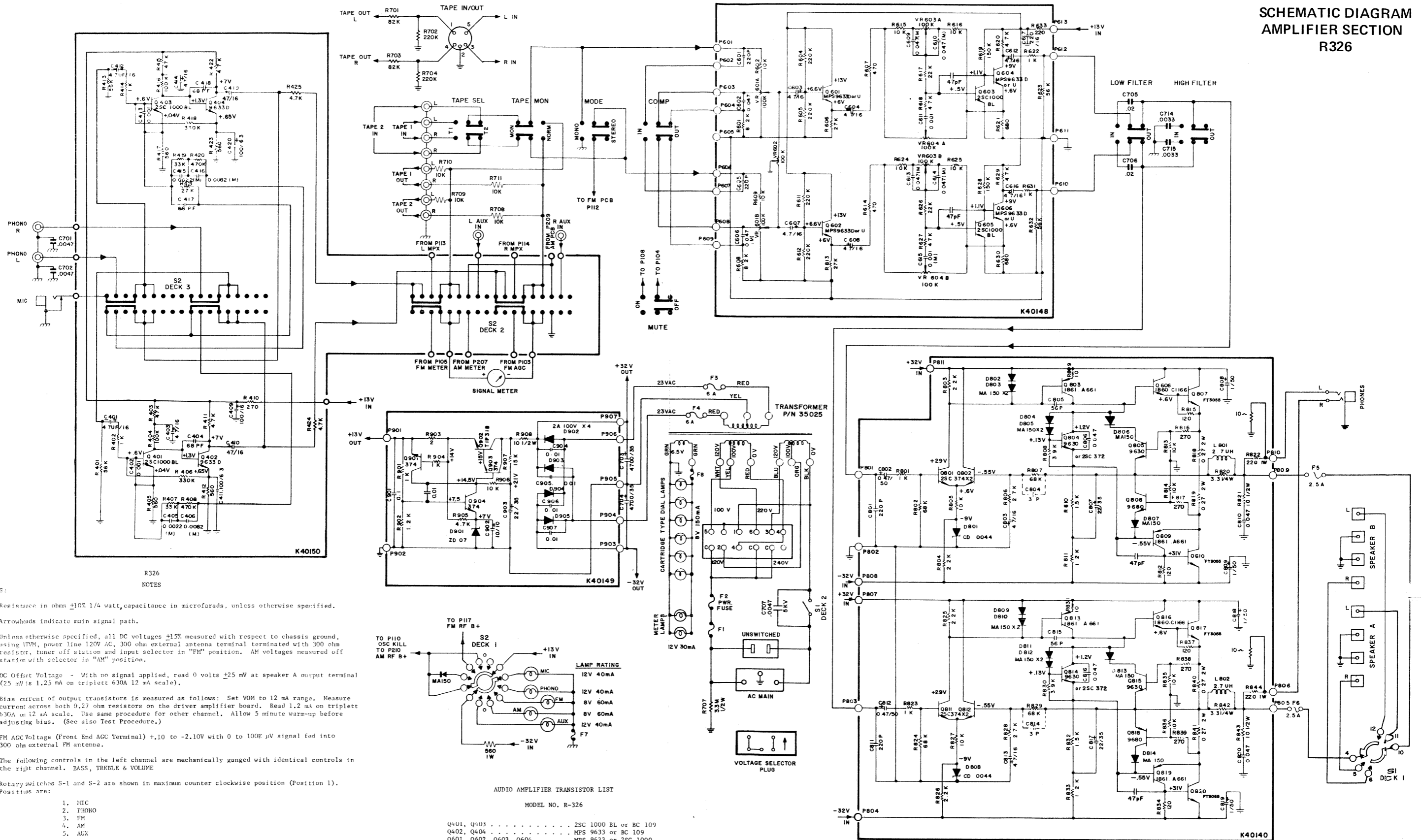
AUDIO AMPLIFIER TRANSISTOR LIST
MODEL NOS. R-316/R-316L

| | |
|----------------------------------|----------------------|
| Q401, Q403 | BC 109 or 2SC 1000 |
| Q402, Q404 | MPS 9633 or BC 109 |
| Q601, Q602, Q603, Q604 | MPS 9633 or 2SC 1000 |
| Q801, Q802, Q811, Q812 | 2SC 374 or BC 521 |
| Q803, Q809, Q813, Q819 | 2SA 661 or MPS A56 |
| Q804, Q814 | MPS 9630 or 2SC 372 |
| Q806, Q816 | MPS A06 or PCS 1860 |
| Q805, Q815 | MPS 9630 or 2SC 372 |
| Q808, Q818 | MPS 9680 or 2SA 495 |
| Q807, Q810, Q817, Q820 | TIP 31B or 2SC 1173 |
| Q901, Q903, Q904 | 2SC 374 or BC 521 |

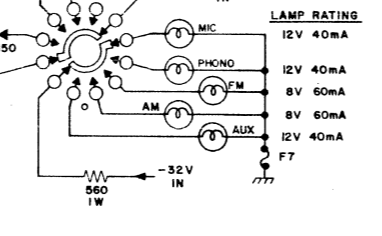
NOTE: ALTERNATE DEVICES ARE FOR USE IN THIS AMPLIFIER ONLY, THEY ARE NOT NECESSARILY APPLICABLE TO OTHER CIRCUITS.

NOTE: MODEL R-316L
Delete filter switches MPX and AM. Add band switches LW and MW shown on schematic diagram, tuner section of R-316L.

SCHEMATIC DIAGRAM
AMPLIFIER SECTION
R326



- NOTES:
- Resistance in ohms $\pm 10\%$ 1/4 watt, capacitance in microfarads, unless otherwise specified.
 - Arrowheads indicate main signal path.
 - Unless otherwise specified, all DC voltages $\pm 15\%$ measured with respect to chassis ground, using VTVM, power line 120V AC, 300 ohm external antenna terminal terminated with 300 ohm resistor, tuner off station and input selector in "FM" position. AM voltages measured off station with selector in "AM" position.
 - DC Offset Voltage - With no signal applied, read 0 volts ± 25 mV at speaker A output terminal (25 mV is 1.25 mA on triplenet 630A 12 mA scale).
 - Bias current of output transistors is measured as follows: Set VOM to 12 mA range. Measure current across both 0.27 ohm resistors on the driver amplifier board. Read 1.2 mA on triplenet 630A on 12 mA scale. Use same procedure for other channel. Allow 5 minute warm-up before adjusting bias. (See also Test Procedure.)
 - FM AGC Voltage (Front End AGC Terminal) $+1.0$ to -2.10 V with 0 to 100K μ V signal fed into 300 ohm external FM antenna.
 - The following controls in the left channel are mechanically ganged with identical controls in the right channel. BASS, TREBLE & VOLUME
 - Rotary switches S-1 and S-2 are shown in maximum counter clockwise position (Position 1). Positions are:
 - MIC
 - PHONO
 - FM
 - AM
 - AUX
- (Front decks shown from knob end and rear decks shown from end opposite knob.)
- Power switch is mechanically ganged to speaker selector switch.
 - Indicator lamp for LW and MW in long wave models are wired directly to AM P.C. board.
 - Fuses**
 - Speaker 2.5A Normal blow
 - Dial and Function Lamp Suitable lengths of #38 SWG copper wire (0.006 inch, 0.15mm dia.)
 - Power F-1 100-120V 2.5A Slow blowing time delay type
 - Power F-2 220-240V 1.25A Slow blowing time delay type
 - Time delay type -- 3.0A. Pigtail leads, wired internally. (May not be used in all production units)

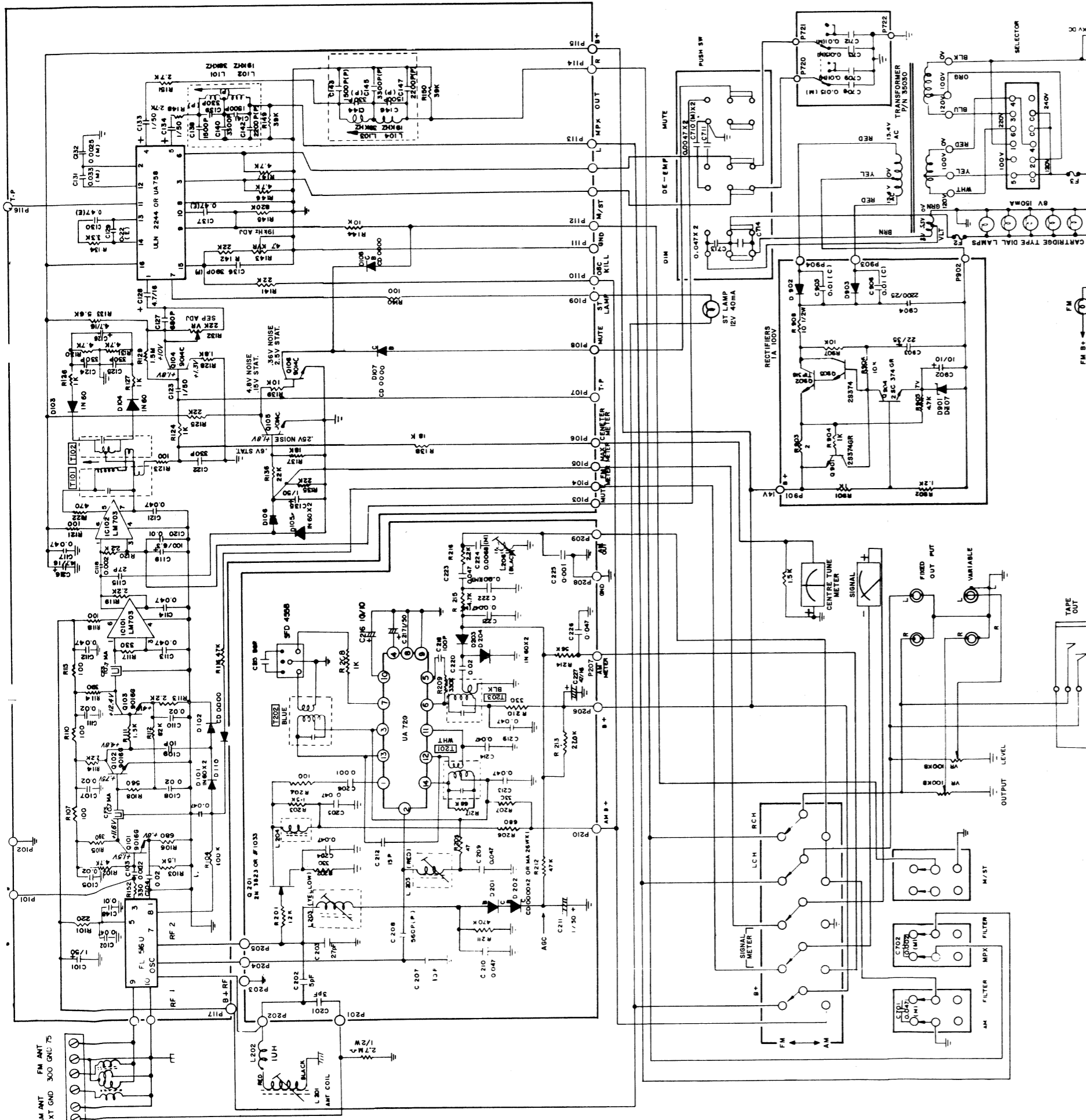


AUDIO AMPLIFIER TRANSISTOR LIST
MODEL NO. R-326

| | |
|------------------------|-----------------------|
| Q401, Q403 | 2SC 1000 BL or BC 109 |
| Q402, Q404 | MPS 9633 or BC 109 |
| Q601, Q602, Q603, Q604 | MPS 9633 or 2SC 1000 |
| Q801, Q802, Q811, Q812 | 2SC 374 or BC 521 |
| Q803, Q809, Q813, Q819 | 2SA 661 or MPS A56 |
| Q804, Q814 | MPS 9630 or 2SC 372 |
| Q806, Q816 | MPS A06 or PCS 1860 |
| Q805, Q815 | MPS 9630 or 2SC 372 |
| Q808, Q818 | MPS 9680 or 2SA 495 |
| Q807, Q810, Q817, Q820 | FT 3055 |
| Q901, Q903, Q904 | 2SC 374 or BC 521 |

ALL DIODES (except zeners and power rectifiers): MA 150 or IN 4148.
NOTE: ALTERNATE DEVICES ARE FOR USE IN THIS AMPLIFIER ONLY, THEY ARE NOT NECESSARILY APPLICABLE TO OTHER CIRCUITS.

SCHMATIC DIAGRAM MODEL NO. T526



DC VOLTAGES AT INTEGRATED CIRCUIT PINS

| IC101 | IC102 | µA 758 | µA 720 |
|-------|-------------|---------------|--------|
| 1 | 1.4V | 3.2V | 5V |
| 2 | 1.4V | 4.5V | 7.3V |
| 3 | 1.4V | 5.2V | 7.4V |
| 4 | 0V | 4.5V | 5V |
| 5 | 11.4V | 4.5V | 0.2V |
| 6 | 13V | 5.0V | 12V |
| 7 | 12V | 13.7V | 0.8V |
| 8 | 12V | 0V | 0V |
| 9 | 1.5V (mono) | 2.8V (stereo) | 0.7V |
| 10 | 2.8V | 1.8V | 0.7V |
| 11 | 1.8V | 2.8V | 0.7V |
| 12 | 2.8V | 1.8V | 13V |
| 13 | 2.8V | 2.8V | 13V |
| 14 | 2.8V | 2.8V | 13V |
| 15 | 2.5V | 2.5V | |
| 16 | 13.7V | 13.7V | |

NOTES:

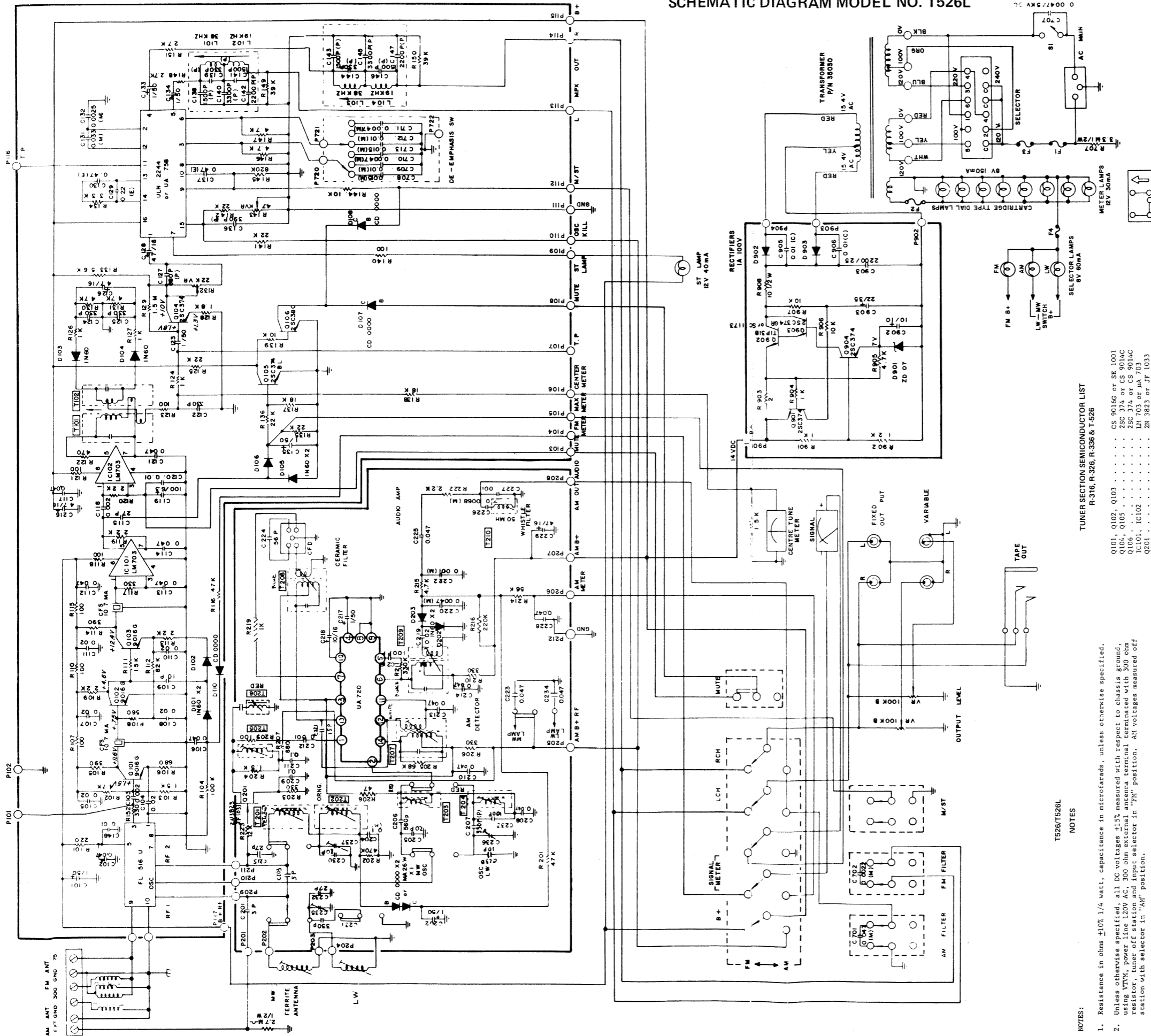
1. Resistance in ohms $\pm 10\%$ 1/4 watt, capacitance in microfarads, unless otherwise specified.
2. Unless otherwise specified, all DC voltages $\pm 15\%$ measured with respect to chassis ground, using VTVM, power line 120V AC, 300 ohm external antenna terminal terminated with 300 ohm resistor, tuner off station and input selector in "FM" position. AM voltages measured off station with selector in "AM" position.
3. FM AGC Voltage (Front End AGC Terminal) ± 10 to $-2.10V$ with 0 to 100 μV signal fed into 300 ohm external FM antenna.
4. Rotary Switch is shown in maximum counter clockwise position (Position 1). Positions are:
 1. FM
 2. AM
5. Indicator lamp for LW and MW in long wave models are wired directly to AM P.C. board.
6. Fuses
 - Power F-1 100-120V 0.75A Normal blowing type
 - Power F-2 220-240V 0.37A Normal blowing type
 - Power F-3 0.75A Pigtail normal blowing type, wired internally. (May not be used in all production units)
 - Dial and Function Lamp F-2 and F-4 Suitable lengths of #38 SWG copper wire (0.006 inch, 0.15mm dia.)

TUNER SECTION SEMICONDUCTOR LIST

- R-316, R-326, R-336 & T-526
- Q101, Q102, Q103 CS 9016C or SE 1001
 - Q104, Q105 ZSC 374 or CS 9014C
 - Q106 ZSC 374 or CS 9014C
 - Q107, Q108 2N 3823 or JF 1033
 - Q109, Q110 2N 3823 or JF 1033
 - Q111, Q112 2N 3823 or JF 1033
 - Q113, Q114 2N 3823 or JF 1033
 - Q115, Q116 2N 3823 or JF 1033
 - Q117, Q118 2N 3823 or JF 1033
 - Q119, Q120 2N 3823 or JF 1033
 - Q121, Q122 2N 3823 or JF 1033
 - Q123, Q124 2N 3823 or JF 1033
 - Q125, Q126 2N 3823 or JF 1033
 - Q127, Q128 2N 3823 or JF 1033
 - Q129, Q130 2N 3823 or JF 1033
 - Q131, Q132 2N 3823 or JF 1033
 - Q133, Q134 2N 3823 or JF 1033
 - Q135, Q136 2N 3823 or JF 1033
 - Q137, Q138 2N 3823 or JF 1033
 - Q139, Q140 2N 3823 or JF 1033
 - Q141, Q142 2N 3823 or JF 1033
 - Q143, Q144 2N 3823 or JF 1033
 - Q145, Q146 2N 3823 or JF 1033
 - Q147, Q148 2N 3823 or JF 1033
 - Q149, Q150 2N 3823 or JF 1033
 - Q151, Q152 2N 3823 or JF 1033
 - Q153, Q154 2N 3823 or JF 1033
 - Q155, Q156 2N 3823 or JF 1033
 - Q157, Q158 2N 3823 or JF 1033
 - Q159, Q160 2N 3823 or JF 1033
 - Q161, Q162 2N 3823 or JF 1033
 - Q163, Q164 2N 3823 or JF 1033
 - Q165, Q166 2N 3823 or JF 1033
 - Q167, Q168 2N 3823 or JF 1033
 - Q169, Q170 2N 3823 or JF 1033
 - Q171, Q172 2N 3823 or JF 1033
 - Q173, Q174 2N 3823 or JF 1033
 - Q175, Q176 2N 3823 or JF 1033
 - Q177, Q178 2N 3823 or JF 1033
 - Q179, Q180 2N 3823 or JF 1033
 - Q181, Q182 2N 3823 or JF 1033
 - Q183, Q184 2N 3823 or JF 1033
 - Q185, Q186 2N 3823 or JF 1033
 - Q187, Q188 2N 3823 or JF 1033
 - Q189, Q190 2N 3823 or JF 1033
 - Q191, Q192 2N 3823 or JF 1033
 - Q193, Q194 2N 3823 or JF 1033
 - Q195, Q196 2N 3823 or JF 1033
 - Q197, Q198 2N 3823 or JF 1033
 - Q199, Q200 2N 3823 or JF 1033



SCHMATIC DIAGRAM MODEL NO. T526L



TUNER SECTION SEMICONDUCTOR LIST
R-316, R-326, R-336 & T-526

| | |
|-----------------------|-------------------------|
| Q101, Q102, Q103 | CS 90166 or SE 1001 |
| Q104, Q105 | 2SC 374 or CS 9014C |
| Q106 | 2SC 374 or CS 9014C |
| IC101, IC102 | LM 703 or μ A 703 |
| Q201 | 2N 3823 or JF 1033 |
| AM Integrated Circuit | μ A 720 |
| Multiplex IC | μ A 758 or ULM 2244 |

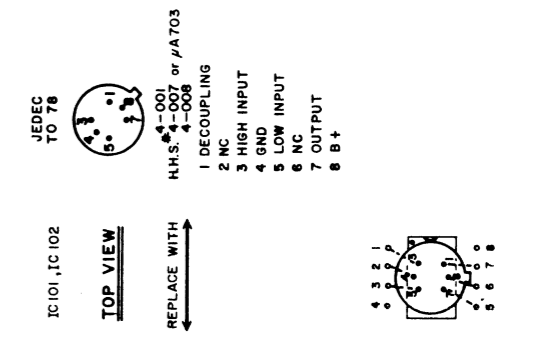
T-526 & T-526L ONLY
Q901, Q903, Q904 2SC 374 or CS 9013
Q902 TIP 31B or 2SC 1173

DC VOLTAGES AT INTEGRATED CIRCUIT PINS

| IC | Pin | Voltage |
|-------------|------|---------------|
| IC101 | 1 | 1.4V |
| | 2 | 1.4V |
| | 3 | 0V |
| IC102 | 1 | 1.4V |
| | 2 | 1.4V |
| | 3 | 0.9V |
| μ A 720 | 5V | 3.2V |
| | 3V | 4.8V |
| | 7.4V | 7.4V |
| OEM * LM703 | 1 | 4.5V |
| | 2 | 4.5V |
| | 3 | 0V |
| OEM * LM703 | 4 | 11.4V |
| | 5 | 11.4V |
| | 6 | 13V |
| OEM * LM703 | 7 | 13.7V |
| | 8 | 0V |
| | 9 | 0V |
| OEM * LM703 | 10 | 1.5V (mono) |
| | 11 | 2.8V (stereo) |
| | 12 | 2.8V |
| OEM * LM703 | 13 | 1.8V |
| | 14 | 0.7V |
| | 15 | 2.8V |
| OEM * LM703 | 16 | 2.5V |
| | 17 | 13.7V |
| | 18 | 13.7V |

NOTES:

- Resistance in ohms \pm 10% 1/4 watt, capacitance in microfarads, unless otherwise specified.
- Unless otherwise specified, all DC voltages \pm 1% measured with respect to chassis ground, using VTVM, power line 120V AC, 300 ohm external antenna terminal terminated with 300 ohm resistor, tuner off station and input selector in "FM" position. All voltages measured off station with selector in "AM" position.
- FM AGC Voltage (Front End AGC Terminal) \pm 1.0 to \pm 2.10V with 0 to 100K μ V signal fed into 300 ohm external FM antenna.
- Rotary Switch is shown in maximum counter clockwise position (Position 1). Positions are:
1. FM
2. AM
- Indicator lamp for LW and MW in long wave models are wired directly to AM P.C. board.
- Fuses



LONG WAVE TUNER SECTION COIL IDENTIFICATION

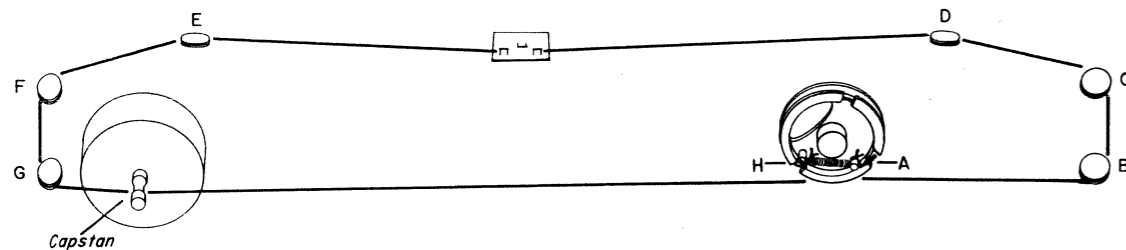
| | |
|---------------|----------------|
| T201 (Yellow) | MW R.F. |
| T202 (Orange) | LW R.F. |
| T203 (Red) | MW OSC. |
| T204 (Red) | LW OSC. |
| T205 | Non Adj. R.F. |
| T206 (Red) | 455 kHz Trap |
| T207 (White) | I.F. |
| T208 (Blue) | Detector |
| T209 (Black) | Detector |
| T210 | Whistle Filter |

DC VOLTAGES AT INTEGRATED CIRCUIT PINS

| IC | Pin | Voltage |
|-------------|------|---------------|
| IC101 | 1 | 1.4V |
| | 2 | 1.4V |
| | 3 | 0V |
| IC102 | 1 | 1.4V |
| | 2 | 1.4V |
| | 3 | 0.9V |
| μ A 758 | 5V | 3.2V |
| | 3V | 4.8V |
| | 7.4V | 7.4V |
| OEM * LM703 | 1 | 4.5V |
| | 2 | 4.5V |
| | 3 | 0V |
| OEM * LM703 | 4 | 11.4V |
| | 5 | 11.4V |
| | 6 | 13V |
| OEM * LM703 | 7 | 13.7V |
| | 8 | 0V |
| | 9 | 0V |
| OEM * LM703 | 10 | 1.5V (mono) |
| | 11 | 2.8V (stereo) |
| | 12 | 2.8V |
| OEM * LM703 | 13 | 1.8V |
| | 14 | 0.7V |
| | 15 | 2.8V |
| OEM * LM703 | 16 | 2.5V |
| | 17 | 13.7V |
| | 18 | 13.7V |

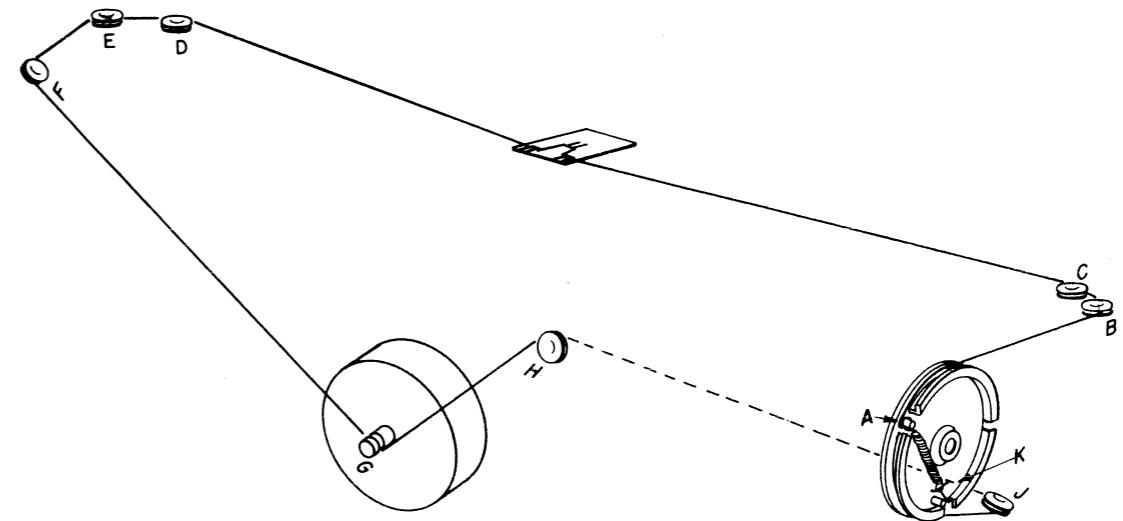
**DIAL CORD STRINGING INSTRUCTIONS
RECEIVERS**

1. Set tuning capacitor plates "out" (minimum capacitance).
2. Tie dial cord to pulley boss "A".
3. Wind one turn of dial cord around tuning drum counter-clockwise, as viewed from rear of unit.
4. Continue over pulleys "B", "C", "D", "E", "F" & "G".
5. Wind three turns of dial cord around flywheel capstan counter-clockwise, when viewed from rear of unit.
6. Continue to tuning drum and install 1 3/4 turns of dial cord around drum, counter-clockwise. Enter drum opening at point "H" and attach cord to tension spring as shown.
7. Attach dial cord to pointer assembly, rotate dial knob to fully "mesh" tuning capacitor plates (low frequency end of dial).
8. Position pointer assembly on "0" log.
9. Rotate tuning knob in both directions to check for satisfactory dial drive operation, adjust tension as necessary. Apply suitable cement to dial cord knots and at dial pointer clips.



**DIAL CORD STRINGING INSTRUCTIONS
T-526 TUNER**

1. Set tuning capacitor plates "out" (minimum capacitance).
2. Tie dial cord to pulley boss "A".
3. Install cord around pulleys "B", "C", "D", "E" & "F".
4. Wind dial cord around flywheel capstan (G) three turns in a counter-clockwise direction.
5. Continue over pulleys "H" and "J". Use care not to bend tuning capacitor plates.
6. Wind two turns of dial cord around tuning drum (clockwise) and tie to dial cord tension spring at point "K".
7. Turn tuning knob counter-clockwise to "mesh" tuning capacitor plates.
8. Set dial pointer to "0" log and attach dial cord to pointer.
9. Check for free operating dial drive with adequate cord tension.
10. Apply suitable cement to knots at each end of dial cord, and to cord where it is clipped to the pointer assembly.

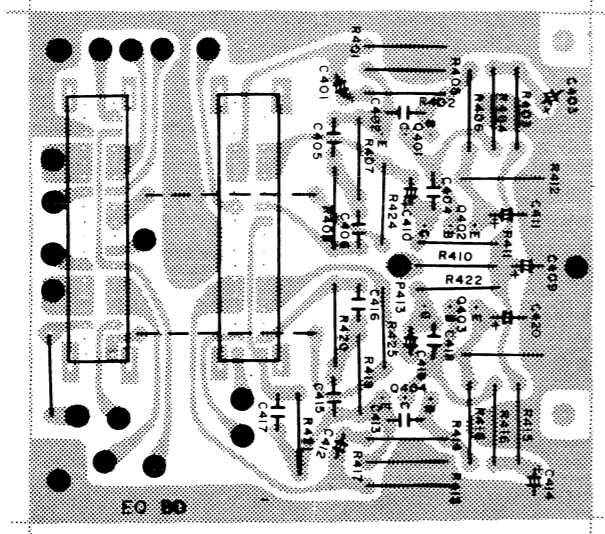


RECEIVER PREAMP BOARD NO. K40150A

ASSY. NO. 100-1333-037

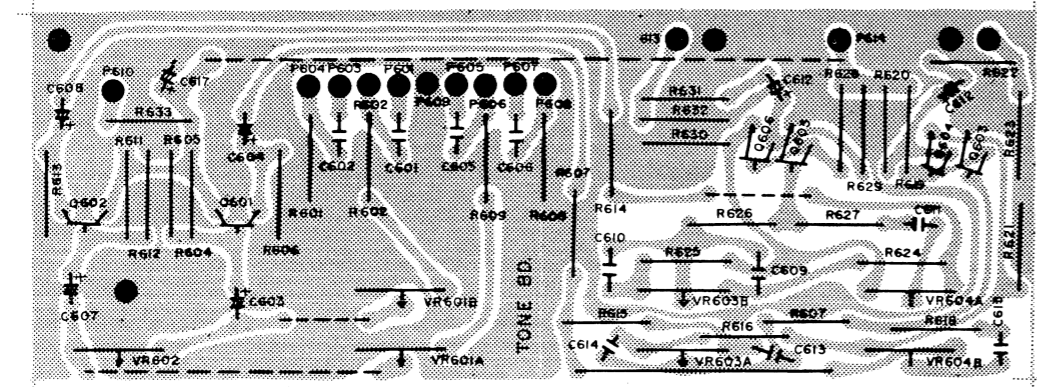
MODEL NOS.

- R316
- R326
- R316L



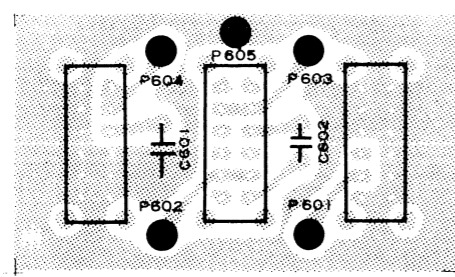
RECEIVER TONE CONTROL BOARD NO. K40148A

MODEL NOS. ASSY. NOS.
 R316 R316L 100-1334-031
 R326 100-1334-029



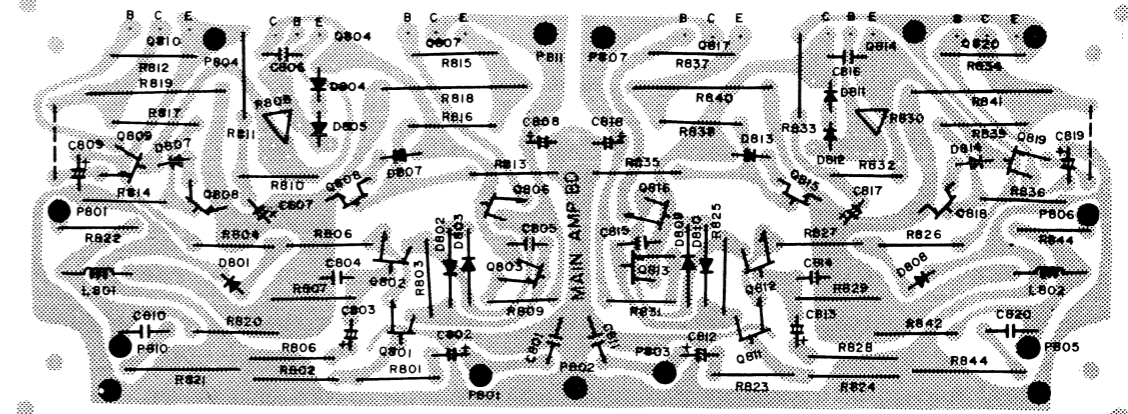
FILTER & MODE BOARD NO. K40151A

MODEL NOS. ASSY. NO.
 T526, T526L 100-1352-032



POWER BOARD NO. K40140A

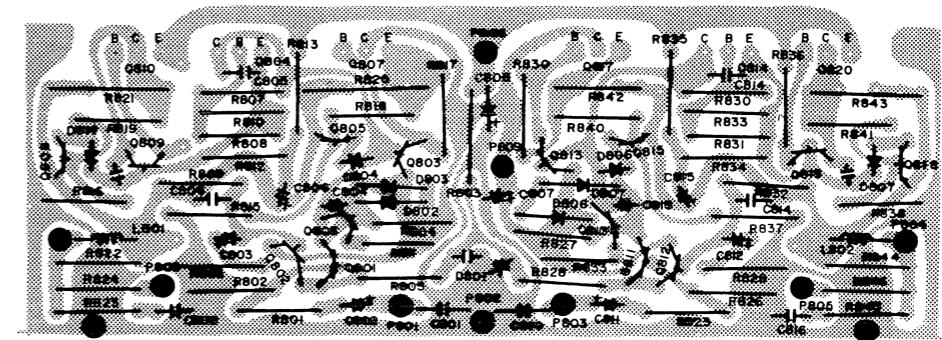
MODEL NO. ASSY. NO.
 R-326 100-1335-022



POWER BOARD NO. K40141A

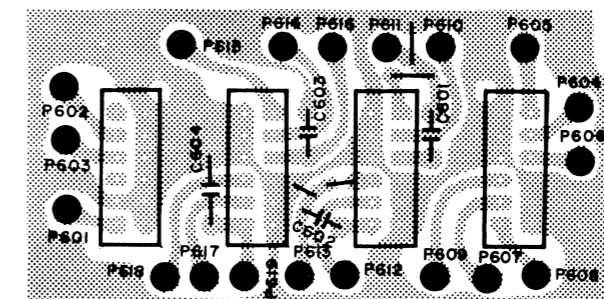
MODEL NOS. ASSY. NO.
 R316, R316L 100-1335-023

MAIN AMP BD



LOUD, FILTER & MODE BOARD NO. K40151

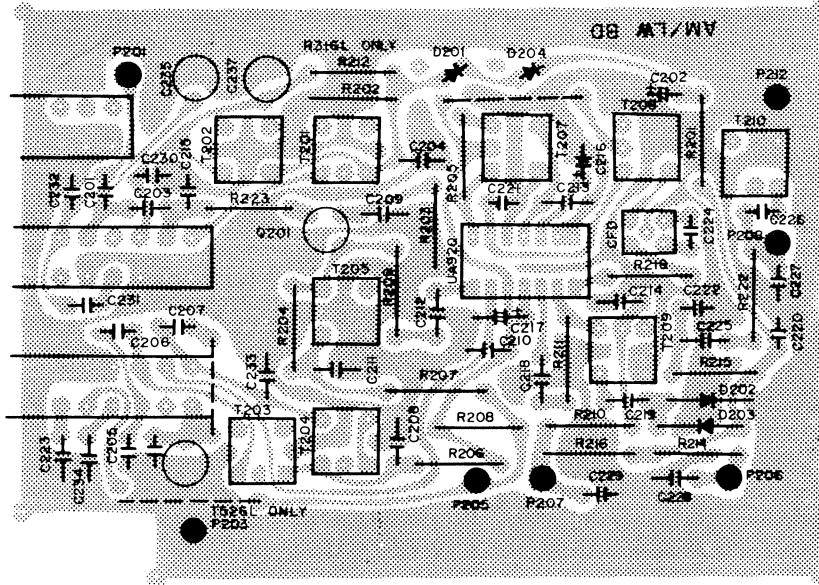
MODEL NOS. ASSY. NOS.
 R316, R316L 100-1352-031
 R326 100-1352-030



AM LW TUNER BOARD NO. K40147-1

MODEL NOS.

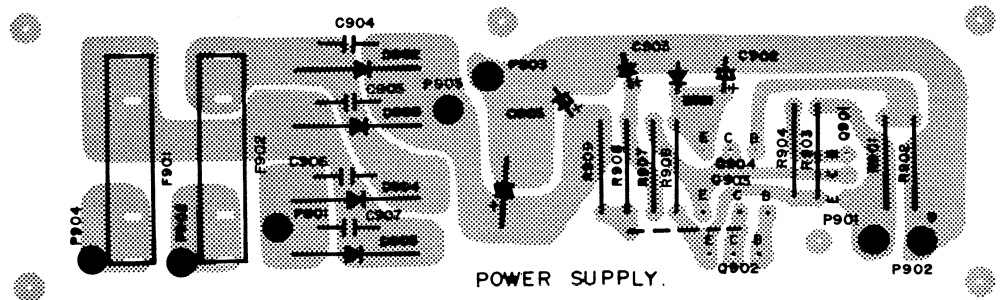
R316L
T526L



POWER SUPPLY REGULATOR BOARD NO. K40149

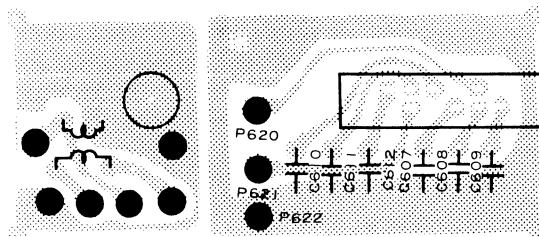
USED IN
ALL MODELS
ASSY. NOS.

100-1340-040 R-316
100-1340-038 R-326
100-1340-041 T-526



DEEMPHASIS BOARD NO. K40152

| | |
|------------|--------------|
| MODEL NOS. | ASSY. NOS. |
| R316, R326 | 100-1348-005 |
| T526 | 100-1348-006 |

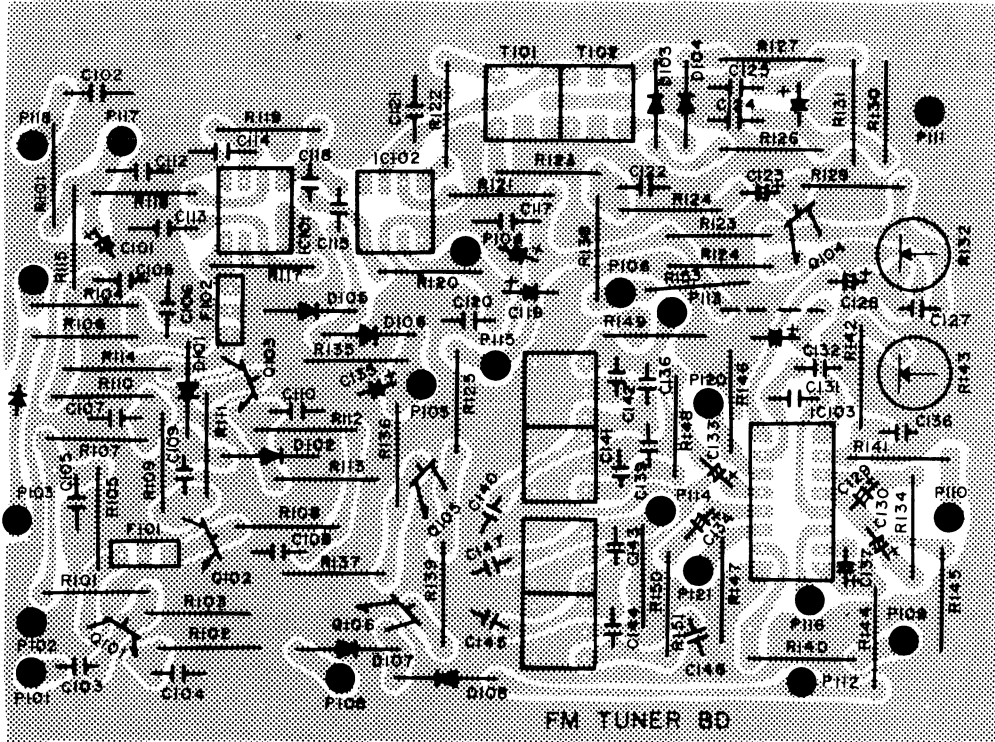


FM TUNER BOARD NO. K40145A

MODEL NOS. ASSY NO.

R316, R316L, R326, 100-1351-004

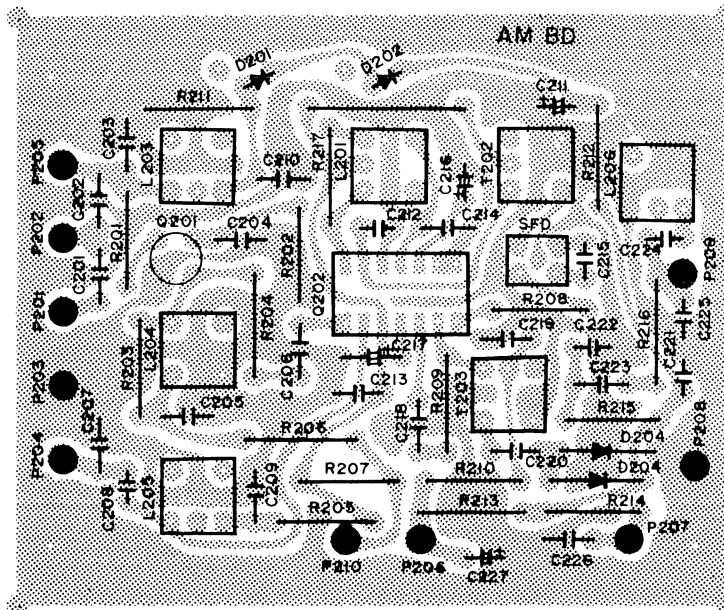
T526, T526L



AM TUNER BOARD NO. K40146A

MODEL NOS. ASSY NO.

R316, R326, T526 100-1351-003



PARTS LIST

| <u>H.H. SCOTT PART NO.</u> | <u>DESCRIPTION</u> | <u>USAGE</u> | |
|----------------------------|------------------------|----------------------|-------------|
| 011-1004-031 | Filter Capacitor | 4700/35V | R-326 |
| 011-1004-032 | Filter Capacitor | 3300/35V | R-316 |
| 012-1020-004 | Diode | 1N 60 | A11 |
| 012-1021-001 | Diode, SI | MA162, 1N4148, MA150 | R-316/326 |
| 012-1021-004 | Diode, SI | CD0000 NC | A11 |
| 012-1023-009 | Diode, Zener | CD0044 | R-316/326 |
| 012-1023-011 | Diode, Zener | FZD-07 | A11 |
| 012-1024-002 | Diode, Rectifier | 2A 100V | R-316/326 |
| 012-1024-014 | Diode, Rectifier | 1A 100V | T-526 |
| 013-1031-005 | Fuse, Slo-Blo | .75A/250V | R-316 |
| 013-1031-008 | Fuse, Slo-Blo | 1.25A/250V | R-326 |
| 013-1031-009 | Fuse, Slo-Blo | 1.50A/125V | R-316 |
| 013-1031-011 | Fuse, Slo-Blo | 2.50A/125V | R-326 |
| 013-1031-018 | Fuse, Fast-Blo | 2.50A/125V | R-326 |
| 013-1031-025 | Fuse, Fast-Blo | 2A/125V | R-316 |
| 013-1031-030 | Fuse, Fast-Blo | 6A/125V | R-326 |
| 013-1031-031 | Fuse, Slo-Blo | .75A/125V | T-526 |
| 013-1031-032 | Fuse, Slo-Blo | .375A/250V | T-526 |
| 015-1061-014 | Jack, Phone | | A11 |
| 015-1061-015 | Jack, Mic | | R-316/326 |
| 016-1092-037 | Inductor | 2 mH | A11 |
| 016-1093-046 | Inductor | 50 mH | A11 |
| 016-1093-049 | Coil, Multiplex | 19 kHz (White) | A11 |
| 016-1093-050 | Coil, Multiplex | 38 kHz (Blue) | A11 |
| 016-1093-051 | Coil, AM Osc. | Red | A11 |
| 017-1095-038 | Meter, Signal Strength | | A11 |
| 017-1095-039 | Meter, Center Tune | | R-326/T-526 |
| 018-1100-178 | Knob, Volume | | R-316/326 |
| 018-1100-179 | Knob, Control | | A11 |
| 018-1100-180 | Knob, Push Button | | A11 |
| 018-1100-181 | Knob, Lever | | A11 |
| 018-1100-183 | Knob, Tuning | | A11 |
| 018-1102-162 | Panel, Front | | R-316 |
| 018-1102-163 | Panel, Front | | R-326 |
| 018-1102-165 | Panel, Front | | T-526 |
| 018-1104-099 | Glass Lens | | A11 |
| 018-1105-113 | Dial Glass | | R-326 |
| 018-1105-114 | Dial Glass | | T-526 |
| 018-1105-115 | Dial Glass | | R-316 |
| 020-1110-053 | Transistor | MPS 9630, 2SC 372 | R-316/326 |
| 020-1110-054 | Transistor | 2SC 374 BL, 733 | A11 |
| 020-1110-055q | Transistor | 2SA 495, MPS 9680 | R-316/326 |
| 020-1110-056 | Transistor | 2SA 661, FCS 1861 | R-316/326 |

PARTS LIST

| <u>H.H. SCOTT PART NO.</u> | <u>DESCRIPTION</u> | <u>USAGE</u> |
|----------------------------|--------------------------------------|--------------|
| 020-1110-057 | Transistor 2SC 1166, FCS 1860 | R-316/326 |
| 020-1110-058 | Transistor 2SC 1000 | R-316/326 |
| 020-1110-061 | Transistor FCS 9016G | A11 |
| 020-1110-062 | Transistor MPS 9633, BC 318C | A11 |
| 020-1111-051 | Transistor TIP 31B | A11 |
| 020-1111-052 | Transistor FT 3055 | R-326 |
| 020-1112-008 | Transistor TI 2N 3823 | A11 |
| 020-1114-025 | Integrated Circuit LM 703, uA 703 | A11 |
| 020-1114-031 | Integrated Circuit uA 720, MC 1320 | A11 |
| 020-1114-032 | Integrated Circuit uA 758, ULN 2244N | A11 |
| 021-1125-137 | Potentiometer, Balance | R-316/326 |
| 021-1125-138 | Potentiometer, Volume | R-326 |
| 021-1125-139 | Potentiometer, Volume | R-316 |
| 021-1125-143 | Potentiometer, Tone | R-316/326 |
| 021-1125-145 | Potentiometer, Level | T-526 |
| 023-1135-041 | Switch, Slide, Deemphasis | A11 |
| 023-1136-013 | Switch, Lever 4P2T | A11 |
| 023-1137-085 | Switch, Rotary, Function | R-316/326 |
| 023-1137-086 | Switch, Rotary, Speaker | R-316/326 |
| 023-1137-087 | Switch, Rotary | T-526 |
| 023-1138-056 | Switch, Push 3 Gang | A11 |
| 024-1140-077 | Transformer | R-316 |
| 024-1140-078 | Transformer | R-326 |
| 024-1140-080 | Transformer | T-526 |
| 024-1142-021 | Coil, AM, IFT Blue | A11 |
| 024-1142-026 | Coil, AM, IFT Black | A11 |
| 024-1142-028 | Coil, FM Discriminator A | A11 |
| 024-1142-029 | Coil, FM Discriminator B | A11 |
| 024-1142-030 | Coil, AM, RF Yellow | A11 |
| 024-1142-031 | Coil, AM, IFT White | A11 |
| 024-1144-011 | Filter SFD 455B | A11 |
| 024-1144-012 | Filter, Ceramic 10.7 MA | A11 |
| 027-1157-043 | Cabinet, Wood | R-316/326 |
| 030-1187-032 | Terminal, Speaker | R-316/326 |
| 030-1187-033 | Terminal, Ground Assembly | A11 |
| 030-1189-032 | Lamp, Lead Type 8V 60 mA | A11 |
| 030-1189-029 | Lamp, Lead Type 12V 40 mA | A11 |
| 030-1189-030 | Lamp, Lead Type 12V 30 mA | A11 |
| 030-1189-031 | Lamp, Fuse Type 8V 150 mA | A11 |
| 030-1192-010 | Fuse Holder | A11 |
| 031-1198-025 | Dial Pointer | A11 |
| 031-1200-008 | Feet, Rubber | A11 |
| 032-1251-190 | Cabinet, Steel | T-526 |
| 035-1276-014 | AM Antenna Assembly | A11 |
| 036-1280-004 | Handle | T-526 |
| 100-1330-038 | Front End Assembly FL 516U | A11 |