

ST-V7L

AEP Model
UK Model



FM STEREO/FM-AM SYSTEM CONTROL TUNER

SPECIFICATIONS

FM tuner section

Tuning range 87.5 MHz – 108 MHz
Antenna terminals 300 ohms, balanced
75 ohms, unbalanced
ST-V7L available in West Germany :
75 ohms, IEC connector
Intermediate frequency 10.7 MHz

	(at 40 kHz deviation)
Sensitivity	at 46 dB quieting 17.3 dBf, 4 μ V (mono) 38.3 dBf, 45 μ V (stereo)
Usable sensitivity	10.3 dBf, 1.8 μ V (IHF) 1.6 μ V (S/N = 26 dB)
Signal-to-noise ratio	78 dB (mono) 73 dB (stereo)
Harmonic distortion at 1 kHz	0.08% (mono) 0.15% (stereo)
IM distortion	0.08% (mono) 0.15% (stereo)
Separation at 1 kHz	50 dB
Frequency response	40 Hz – 12.5 kHz ± 0.5 dB 30 Hz – 15 kHz ± 0.5 dB – 2.0 dB

Selectivity	at 300 kHz 80 dB
Capture ratio	1.0 dB
AM suppression ratio	60 dB
Image response ratio	50 dB
IF response ratio	90 dB
Spurious response ratio	70 dB
RF intermodulation	60 dB (IHF)
Sub-carrier product ratio	60 dB
Muting threshold	approx. 25 dBf,
Output level/ impedance	at 75 kHz deviation 750 mV, 4.7 k ohms

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE
PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS
WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS
MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



SONY[®]

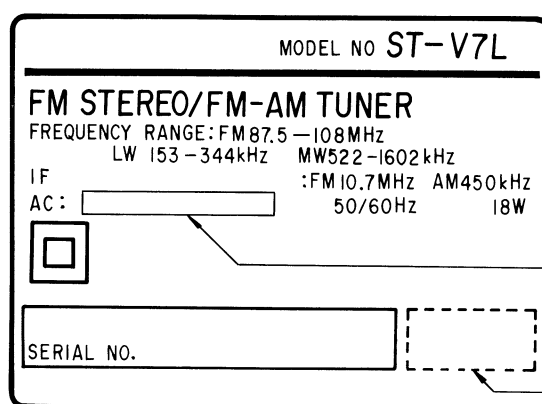
SERVICE MANUAL

MW/LW tuner section

		MW	LW
Tuning range		522 kHz – 1,602 kHz	153 kHz – 344 kHz
Antenna	ferrite-bar antenna	provided	provided
	external antenna terminal	provided	provided
Intermediate frequency		450 kHz	450 kHz
Usable sensitivity	ferrite-bar antenna	200 μ V/m (at 999 kHz)	500 μ V/m (at 230 kHz)
	external antenna	30 μ V (at 999 kHz)	50 μ V (at 230 kHz)
Signal-to-noise ratio		55 dB	55 dB
Harmonic distortion		0.3%	0.3%
Selectivity		35 dB (9 kHz)	35 dB (9 kHz)
Image response ratio		45 dB (at 999 kHz)	45 dB (at 230 kHz)

General System

System	PLL quartz-locked digital synthesizer system
Power requirements	AEP model: 220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50/60 Hz UK model: 240 V ac (or 220 V ac adjustable by authorized Sony personnel), 50 Hz
Power consumption	18 watts
AC outlet	1 switched, 500 watts max
Dimensions	Approx. 355 × 55 × 270 mm (w/h/d) (14 × 2 ¹ / ₈ × 10 ⁵ / ₁₆ inches) including projecting parts and controls
Weight	Approx. 3.1 kg (6 lbs 14 oz) in shipping carton



FEATURES

The quartz-locked digital frequency-synthesizer system allows accurate and stable tuning that is not affected by temperature variations or long period usage.

Quick and accurate station selection is possible with an electronic digital readout on the frequency display window.

Two methods of tuning are available:

Manual tuning, in which each band can be scanned either rapidly or step-by-step.

Memory preset tuning, in which the frequency of up to eight stations can be stored in the memory. Various reception conditions can also be memorized for each station to permit one-touch reception.

The **MEMORY SCAN** key allows you to scan automatically the preset stations only, listening to each one for a few seconds to check if there is anything you would like to listen to.

The supplied remote commander allows you to control all components connected to the tuner remotely.

The memory contents are retained by a lithium manganese battery incorporated in the tuner when the power is turned off. This battery also allows the last station tuned in to be held in the memory.

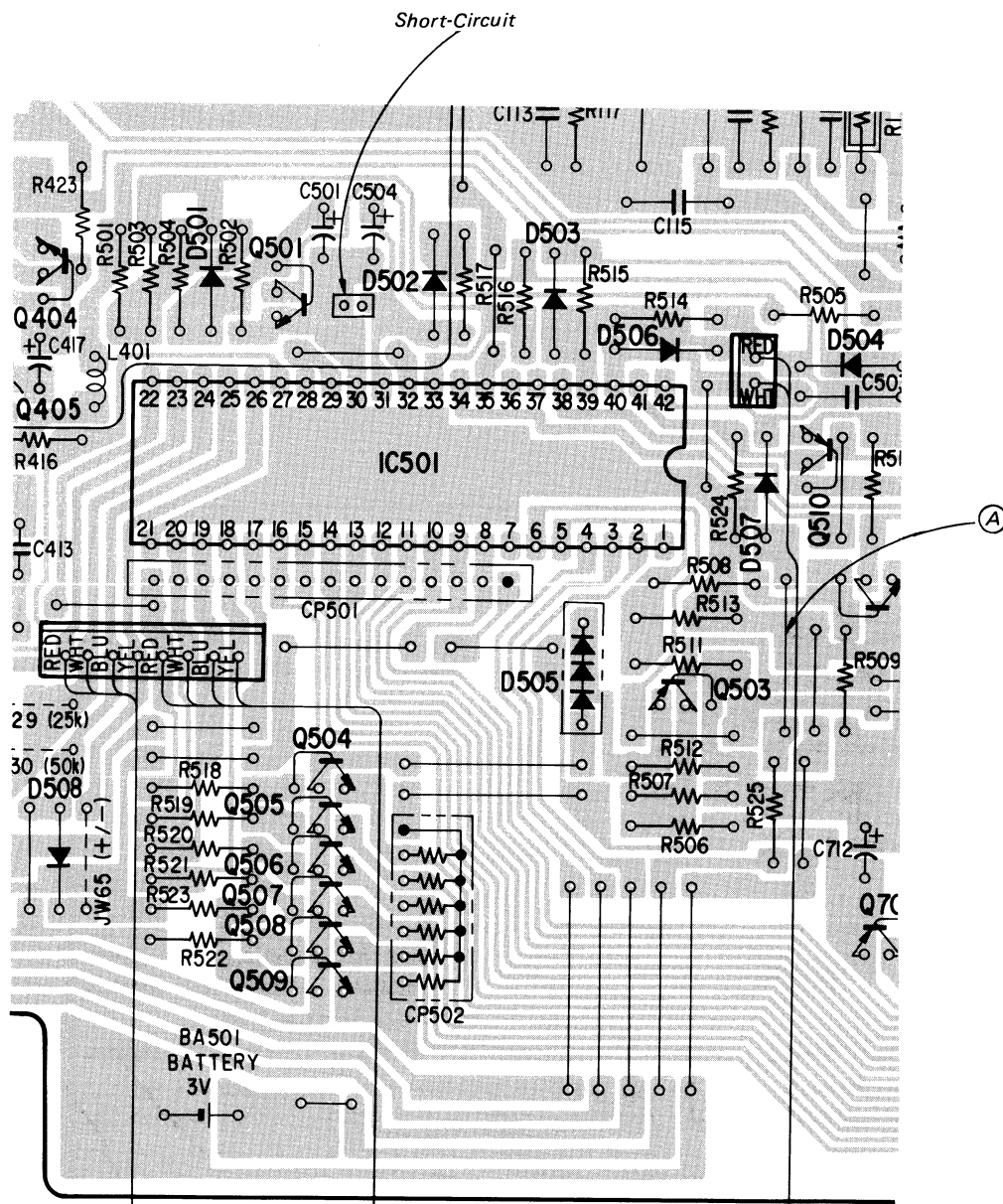
The three-step LED signal strength indicator provides an easy readout of the received signal strength.

An FM muting circuit is incorporated to eliminate any interstation noise. The setting of the **STEREO/MUTING** key can also be memorized for each station, and permits one-touch reception with a suitable mode/FM muting setting.

REPAIRING PRECAUTIONS

When changing battery, IC, and transistor, perform as follows:

1. Remove jumper wire (A) .
2. Replace the IC, transistor, or battery.
3. Connect jumper wire (A) .
4. Turn the power ON.
5. Short-circuit terminal pin momentarily. (reset)



REPAIR METHOD FOR HYBRID CIRCUIT BLOCK

Using a cutting pliers, cut off the upper portion of the insulating cover about 1 mm, exposing the top of the connecting brackets.

Cut off the lead of the defective part with cutting pliers. Remove solder and take out the defective part.

Insert the new part on the board and solder the lead to the board. Cut off the lead on the connecting bracket side so that it overlaps by about 0.5 mm, and solder to the connecting bracket.

Open the insulating cover groove about 0.7 mm and place over the connecting brackets, positioning one end first.

Insulating Cover
Part No.:

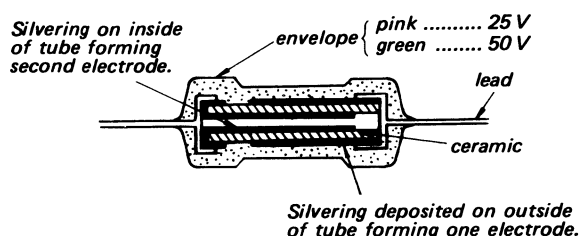
	3-677-012-01	3-677-012-11
A	3.4 mm	2.2 mm
B	2.6 mm	1.8 mm

• THE CERAMIC CAPACITORS

This set uses tube-type ceramic capacitors whose shape is identical with the carbon resistors. Be careful not to use resistors instead of capacitors in repairing.

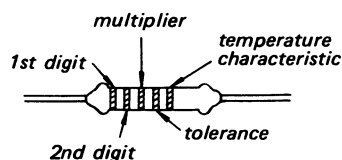
Disc-type ceramic capacitors can be used for replacing those originally used in the set.

Two kinds of drilled holes are provided in some patterns for mounting the tube-type and disc-type ceramic capacitors. Use appropriate holes where applicable.

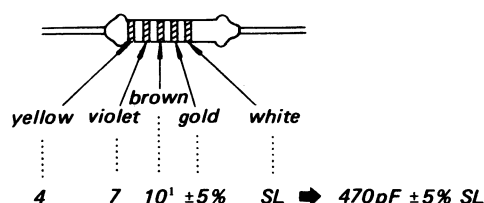


COLOR CODE (in pF)

Color	1st or 2nd Digit	Multiplier	Tolerance	Temperature characteristic
brown	1	10^1		Y
red	2	10^2		D
orange	3	10^3		
yellow	4	10^4		RH
green	5			
blue	6			
violet	7			UJ
gray	8		$\pm 30\%$	X
white	9			SL
black	0	10^0	$\pm 20\%$	CH
gold		10^{-1}	$\pm 5\%$	V
silver		10^{-2}	$\pm 10\%$	B



Example:



• IF OFFSET ADJUSTMENT:

Circuit Connections Depending on the Ceramic Filter (CF101 – 103)

This set employs five types of ceramic filter (CF101 – 103) which have different center frequency. Therefore FM IF offset adjustment by jumper wire connection is necessary to match the center frequency of the ceramic filter used with FM intermediate frequency.



Ceramic filter		Jumper wire connection			FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	JW29 (25k)	JW30 (50k)	JW65 (+/-)	
White	10.750	X	○	X	10.750
Orange	10.725	○	X	X	10.725
Red	10.700	X	X	X	10.700
Blue	10.675	○	X	○	10.675
Black	10.650	X	○	○	10.650

○ : connected
X : not connected

FM intermediate frequency is determined by five types as shown above with specifying the state at terminal 24, 25, and 26 of IC402 (PLL controller) by Jumper wire connection.

* CF101, 102 and 103 should be used the ceramic filters of same center frequency.

• Handling Precautions for MOS IC (IC402: TCP 4621BP)

Generally, the insulation resistance of the oxide layer in MOS IC structures is very high, and the oxide layer is very thin. Because of this, it is possible that the static voltages usually present on clothes and the human body will be enough to generate a potential difference across the insulator, high enough to cause a breakdown of the insulating layer.

The following precautions should be taken while handling these ICs.

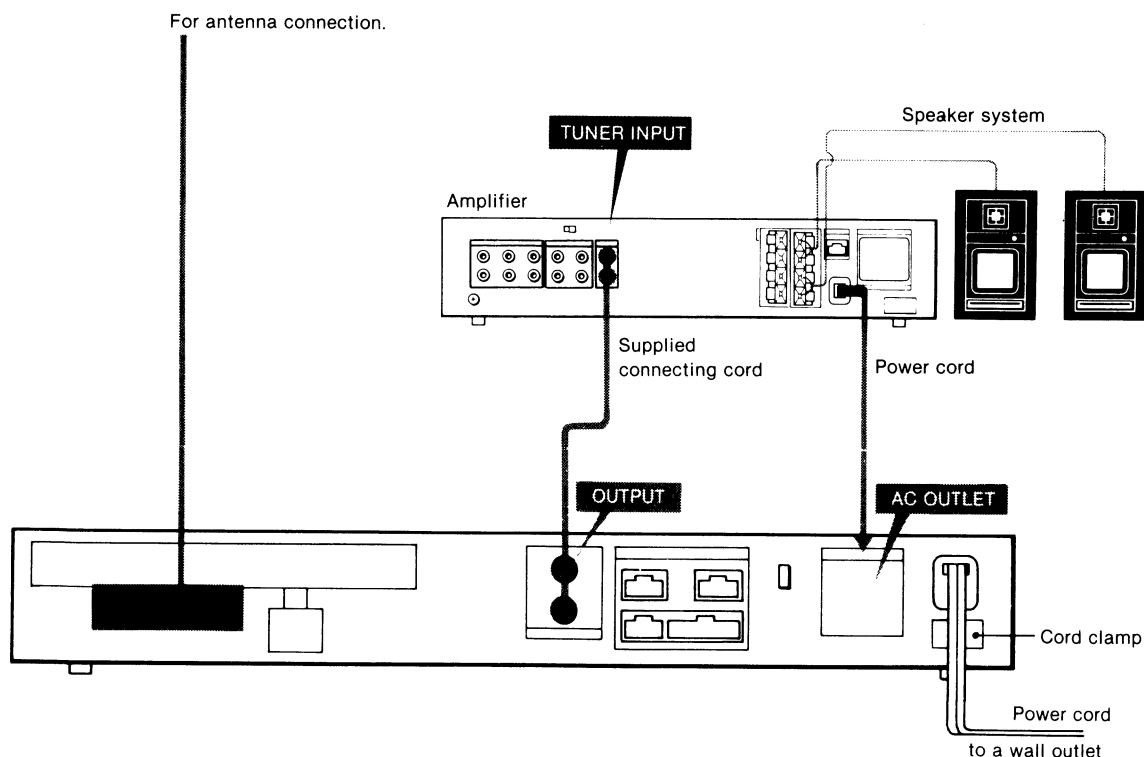
(Particular care should be taken under conditions of low humidity.)

SYSTEM CONNECTIONS

The power cord should be connected last of all, first making sure that the MAIN POWER switch is turned off.

CONNECTION DIAGRAM

Connection to the amplifier

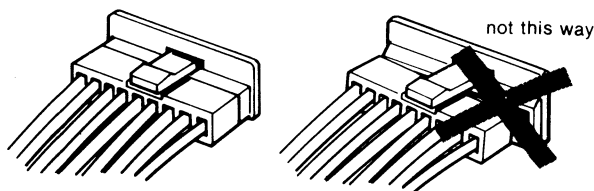


REMOTE CONTROL CORD CONNECTION

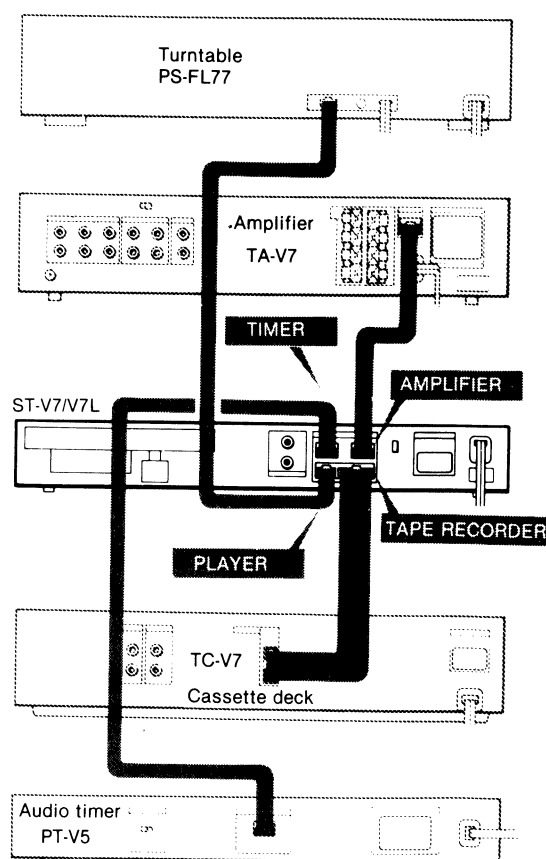
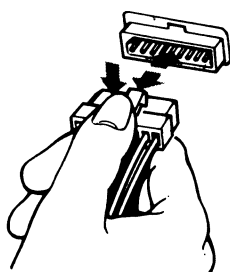
Control signals from the remote commander RM-V70 in the form of infrared rays are received by the remote sensor provided on the front panel of the tuner. The control signals should be delivered to all components through the supplied cords.

Notes

- Insert the cords firmly by depressing the small tab on the plug. A loose connection may cause faulty operation of the remote control.



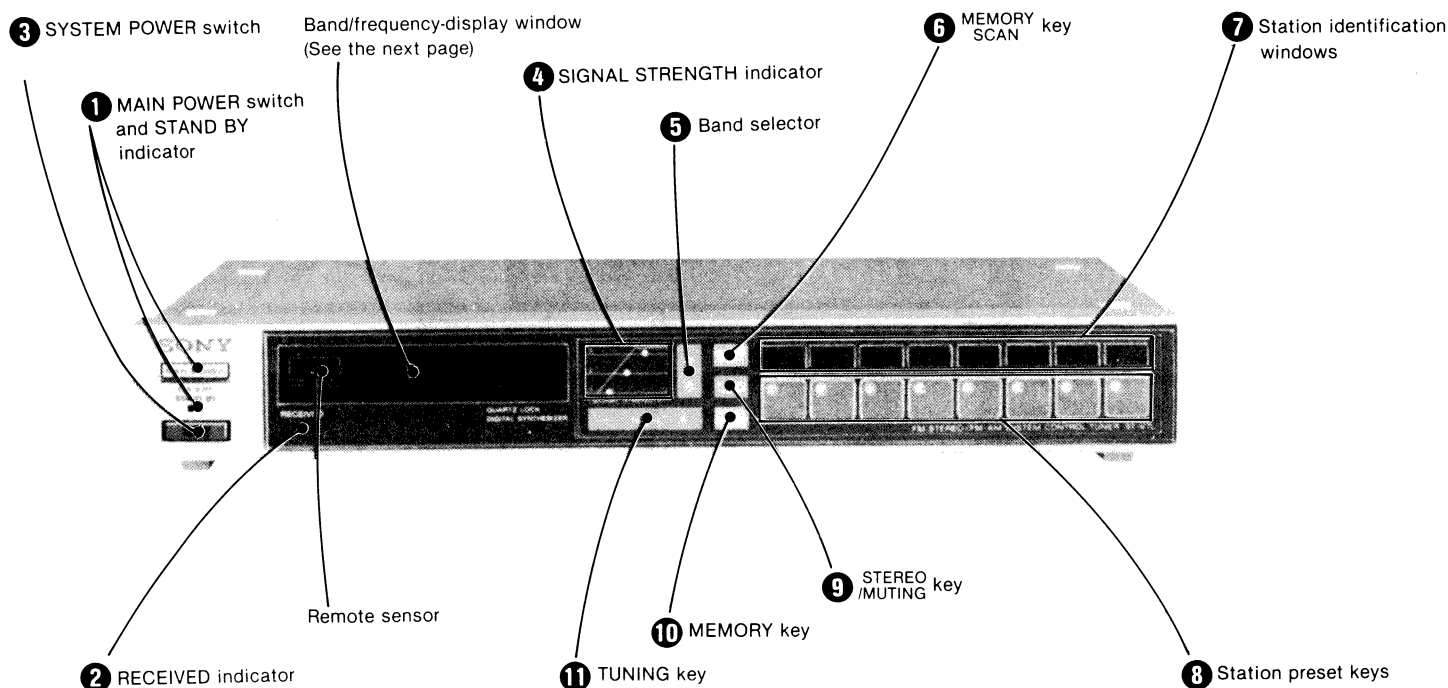
- To remove the cord from the connector, depress the small tab on the plug and pull it out. Never pull out the plug forcibly.



LOCATION AND FUNCTION OF CONTROLS

Before plugging in or attempting to operate this tuner, it is suggested that you familiarize yourself with all its switches and the purpose of each.

Each number in the photo is keyed to the descriptive text.



1 MAIN POWER switch and STAND BY indicator

Depress this switch to turn the mains power on (The STAND BY indicator lights up). If the power has not been turned on, even if you press the SYSTEM POWER switch, you cannot turn the connected components on or operate them with the supplied remote commander RM-V70.

2 RECEIVED indicator

When the signals from the remote commander are received, this indicator will blink.

3 SYSTEM POWER switch

Press this switch to turn the connected components on and off. You can operate the switch from a distance with the remote commander.

4 SIGNAL STRENGTH indicator

Indicates the strength of the tuned signal by the amount of indicator illumination. The fullest illumination means the antenna input signal is strong. When the indicator illuminates only at the low end, it means the antenna input signal is weak.

5 Band selector

Selects the desired band: FM, MW or LW. Each time the selector is pressed, the band will change and the selected band will be indicated in the band/frequency-display window.

6 MEMORY SCAN key

Press for automatic scanning of the stations memorized on the station preset keys. For details, refer to page 10.

7 Station identification windows

Station labels (supplied) identifying memorized stations can be placed in these windows.

8 Station preset keys

To call up a memorized station, press the appropriate key.

9 STEREO /MUTING key

This key serves the dual purpose of a mode and FM muting switch. Normally keep this key engaged (the MUTING indicator illuminates) to eliminate FM interstation noise while tuning from station to station. The tuner operates in stereo mode for stereo sound sources and will be automatically switched to mono mode for monaural sound sources.

When you want to tune in a very weak station, or when an FM program is too noisy, press the key to disengage it. (The MUTING indicator illumination will go out.) This will enable the tuner to receive weak stations, although the stereo feature is sacrificed. In this case, keep the amplifier volume down to avoid speaker damage caused by the interstation noise.

10 MEMORY key

Press to operate memory circuit. The MEMORY indicator will appear on the band/frequency-display window for a few seconds indicating that the memory circuit is standing by.

11 TUNING key

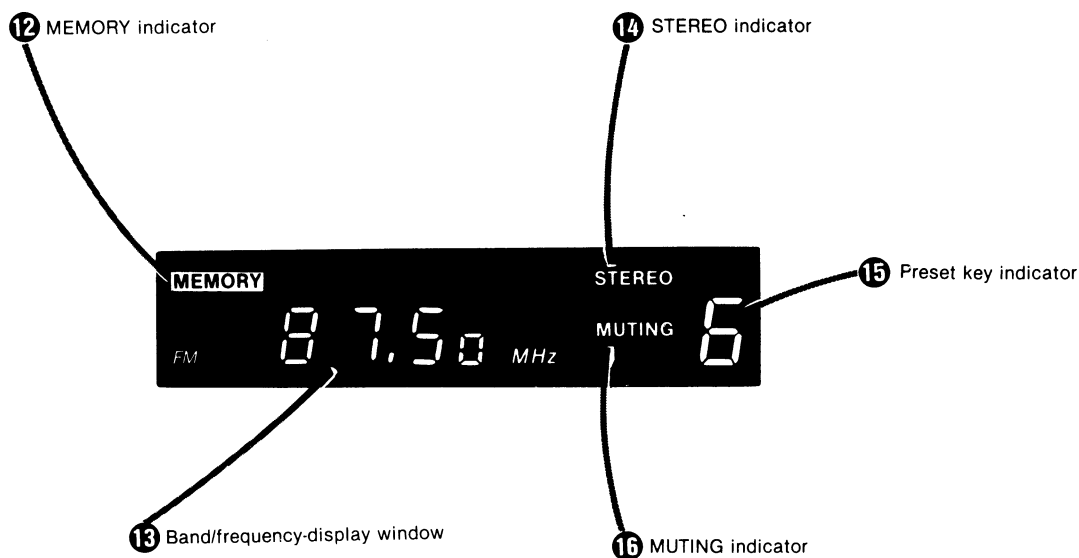
Press either side of this key to change the received frequency.

Press the left side [-] to go to a lower frequency and the right side [+] to go to a higher.

To change the frequency continuously until the desired frequency is received, keep the key pressed.

The frequency figures will change rapidly. To change the frequency slowly to tune in a station accurately, press the key and release immediately.

BAND/FREQUENCY-DISPLAY WINDOW AND INDICATORS



12 MEMORY indicator

When the MEMORY key is engaged, "MEMORY" will appear for a few seconds indicating that the memory circuit is standing by.

13 Band/frequency-display window

The frequency being received is displayed here in digits.

14 STEREO indicator

This indicator will light when an FM stereo program of sufficient signal strength is tuned in with the ^{STEREO}/_{MUTING} key engaged.

15 Preset key indicator

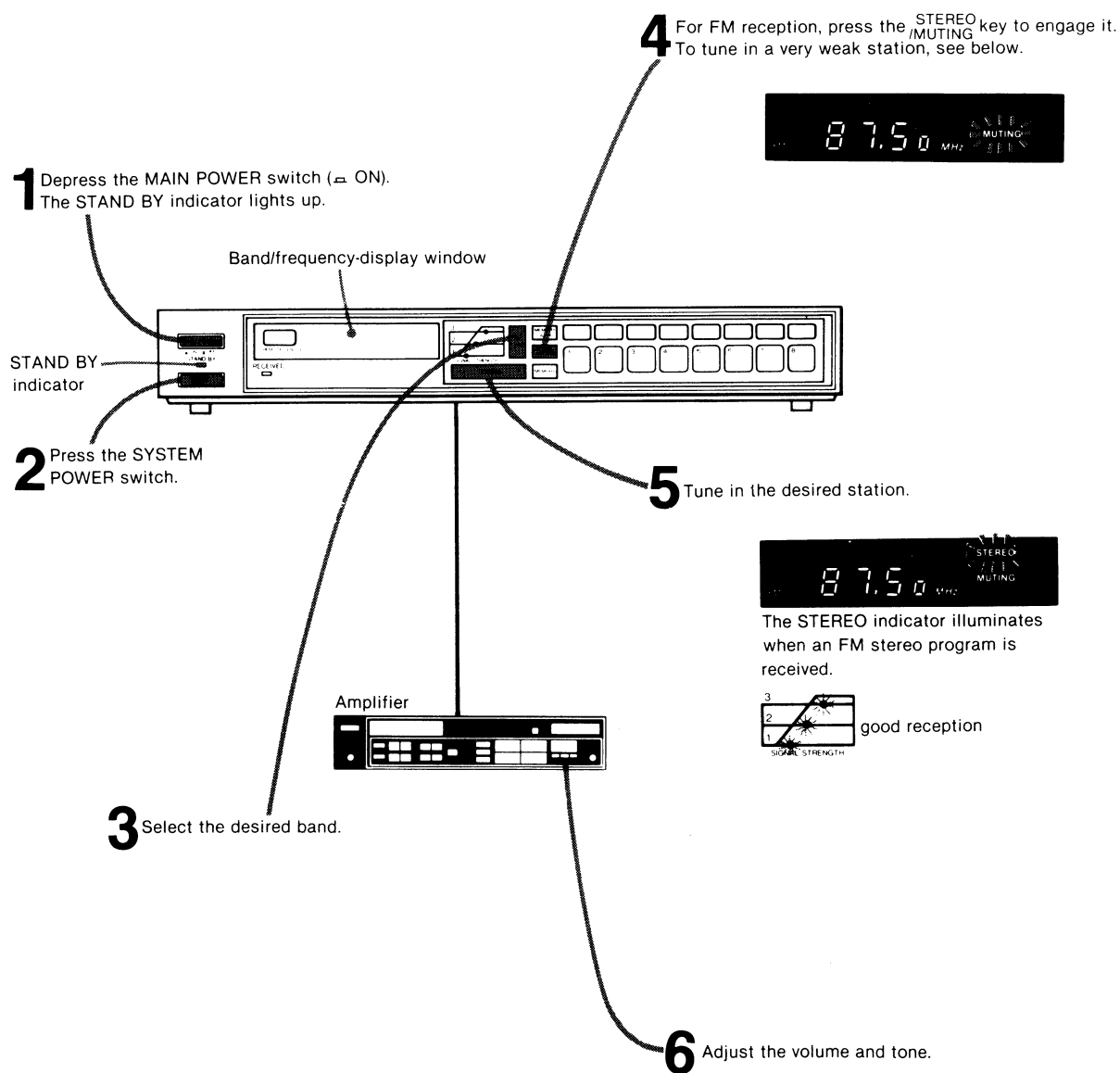
When the station preset key is pressed, a figure from 1 to 8 corresponding to the pressed key will appear.

When the ^{MEMORY}/_{SCAN} key is pressed, the figures will change in sequence.

16 MUTING indicator

This indicator illuminates when the ^{STEREO}/_{MUTING} key is engaged.

MANUAL TUNING



When the frequency figures reach the end of the tuning range of each band, the frequency will then be scanned from the opposite end of the tuning range.

To tune in a weak or noisy station

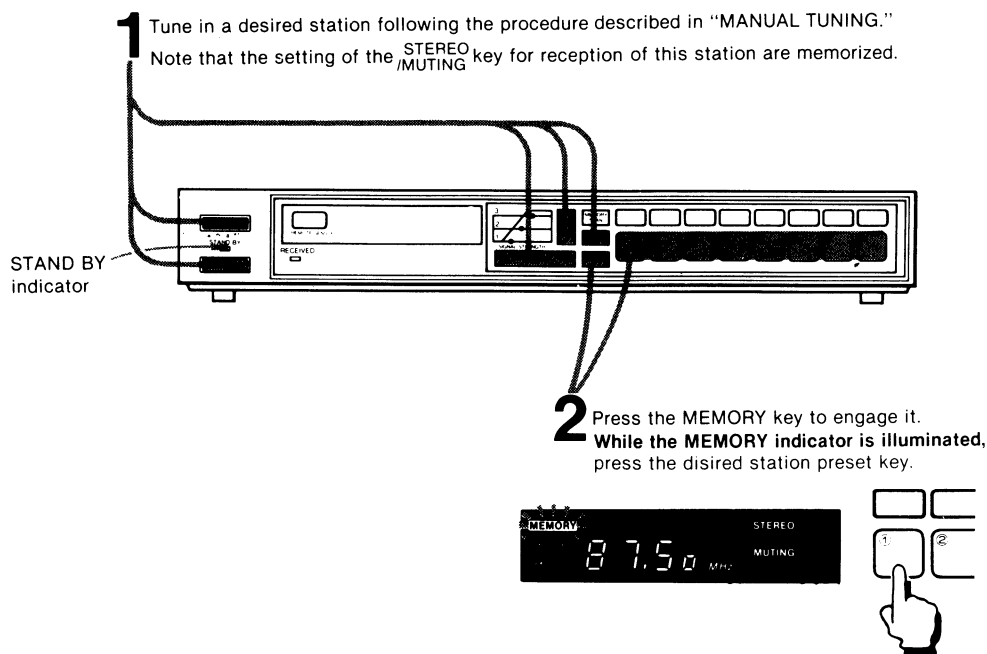
When FM stereo signals are noisy, or to tune in a very weak FM station, lower the volume and disengage the ^{STEREO}/MUTING key. The MUTING indicator will go out. This will result in better reception, at the sacrifice of the stereo effect.

MEMORY PRESET TUNING

This tuner's electronic tuning system (utilizing a PLL—Phase Locked Loop—synthesizer) and a memory circuit make tuning very easy. Once the frequencies of the stations you want to tune in are memorized, all you have to do is press a key.

TO MEMORIZE STATION FREQUENCIES

Preparation: A total of eight station preset keys can be preset for either FM, MW or LW in any desired sequence. Arrange the order of stations for each station preset key and note the band and the frequency of each in advance.



Repeat these steps for each station preset key. Replace the station labels to conform to the selected memorized stations. See "STATION LABEL INSERTION" on page 11.

Notes

- The **MEMORY** indicator will go off automatically after a few seconds. When the indicator is out, the memory circuit does not operate to memorize the station.
- The previous memory will be erased when a new frequency is committed to the memory of the same key. An erasure cannot be made without a new input.

TO CHECK A MEMORIZED FREQUENCY

After the memory procedure is completed, confirm the memorized frequency. Press the **TUNING** key and change the frequency display indication. Press the station preset key to be checked. The frequency which had been memorized should then be indicated in the band/frequency display window.

TO RECEIVE A MEMORIZED STATION

Depress the **MAIN POWER** switch, press the **SYSTEM POWER** switch to turn it on and press the desired station preset key.

Memory of the last received station

This tuner includes a memory circuit to remember the station which had been received for more than one second just before the power was turned off. This station will be automatically tuned in when the power is turned on again. This memory system enables you to make a timer-activated recording from the tuner.

To change temporarily the setting of the **STEREO/MUTING** key, for memorized station

Simply press the **STEREO/MUTING** key. You can recall the original settings later by pressing the station preset key. See page 7 for **STEREO/MUTING** key.

MEMORY SCANNING

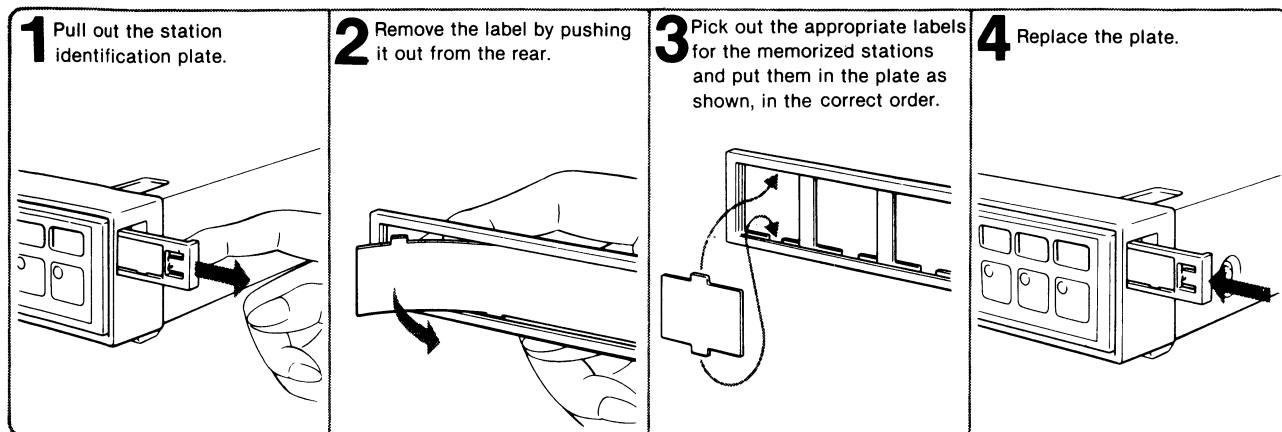
The **MEMORY SCAN** key allows you to quickly hear what kind of programs are being broadcast by the memorized stations. When you press the **MEMORY SCAN** key, the memorized stations are automatically received in order from the memorized station to the immediate right of the station being received for about 4 seconds each.

Pressing a particular station preset key stops the scanning. When you press the **MEMORY SCAN** key during manual tuning, scanning will start from the station memorized on the leftmost station preset key.

STATION LABEL INSERTION

Station labels are supplied for identification of the preset stations.

Affix the labels as follows :



Check that the station labels match the memorized stations by tuning in to each station.

SECTION 1 OUTLINE

1-1. CIRCUIT DISCRIPTION

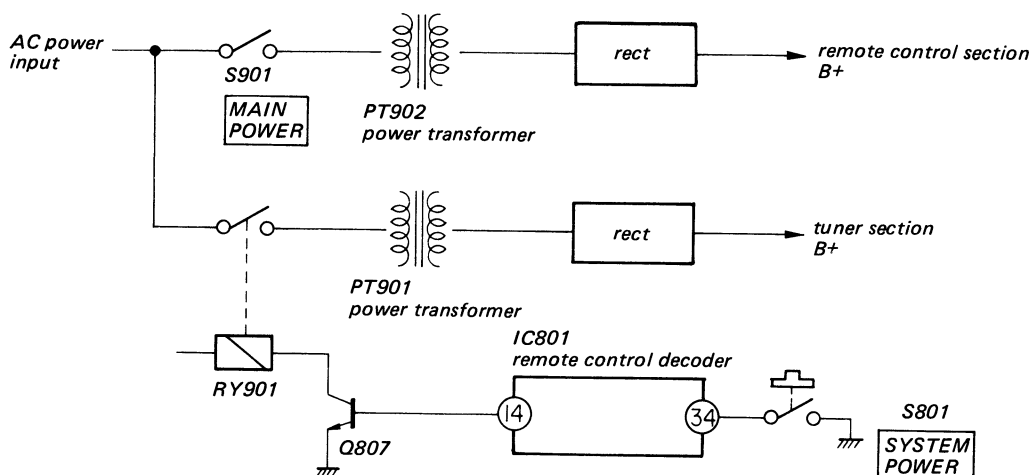
POWER SUPPLY SECTION

When the MAIN POWER switch (S901) goes ON, power is supplied to the remote control section and the STAND BY display LED lights up. In this state, the remote control operation of amp, player, tape recorder, and timer become possible.

When the SYSTEM POWER switch (S801) is pushed, pin (34) of the remote control decoder

IC801 goes low and output pin (14) goes low from high level, then Q807 turns ON. The power switch relay (RY901) operates and power is supplied to a power outlet and the tuner section.

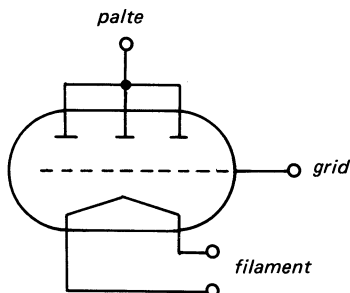
When the SYSTEM POWER switch is pushed again, output pin (14) goes "H" and Q807 goes OFF, then the power supply to the tuner section is cut off.



THE DISPLAY CIRCUIT

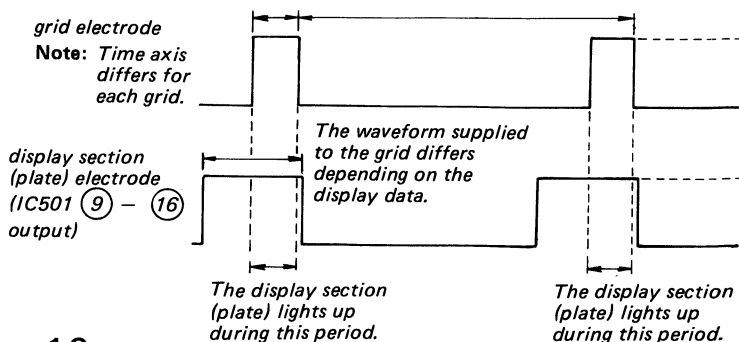
Fluorescent Display Tube

The fluorescent display structure is as shown below. The grid separates in each block. If B- voltage is supplied to the grid, the display tube will not light up. If B+ voltage is supplied to the grid and a voltage equal to that of the grid, or a larger voltage is supplied to the display section (plate), then current flows and that portion lights up.



The Waveforms Supplied to the Grid and the Plate

The drive signal of the grid electrode switches the grid drive transistor Q504 - Q509 by the digit signal from (8), (17), (18), (19), (20), (22) pins of IC501 for control. When the grid drive transistor is OFF, the grid electrode of the fluorescent display tube becomes negative potential (-28 V) through the emitter resistor and the display section (plate) does not light up. When the grid drive transistor is ON, the grid electrode of the fluorescent display tube becomes positive potential (4 V). When both the grid electrode and the display section (plate) are positive potential, the display section lights up. The drive signal of the plate electrode is controlled by segment display data output from (9), (10), (11), (12), (13), (14), (15), (16) pins of the IC501 for control.



● CONTROLLER IC TCP4621BP-6505

IC402 (TCP4621BP-6505) is a microcomputer IC.

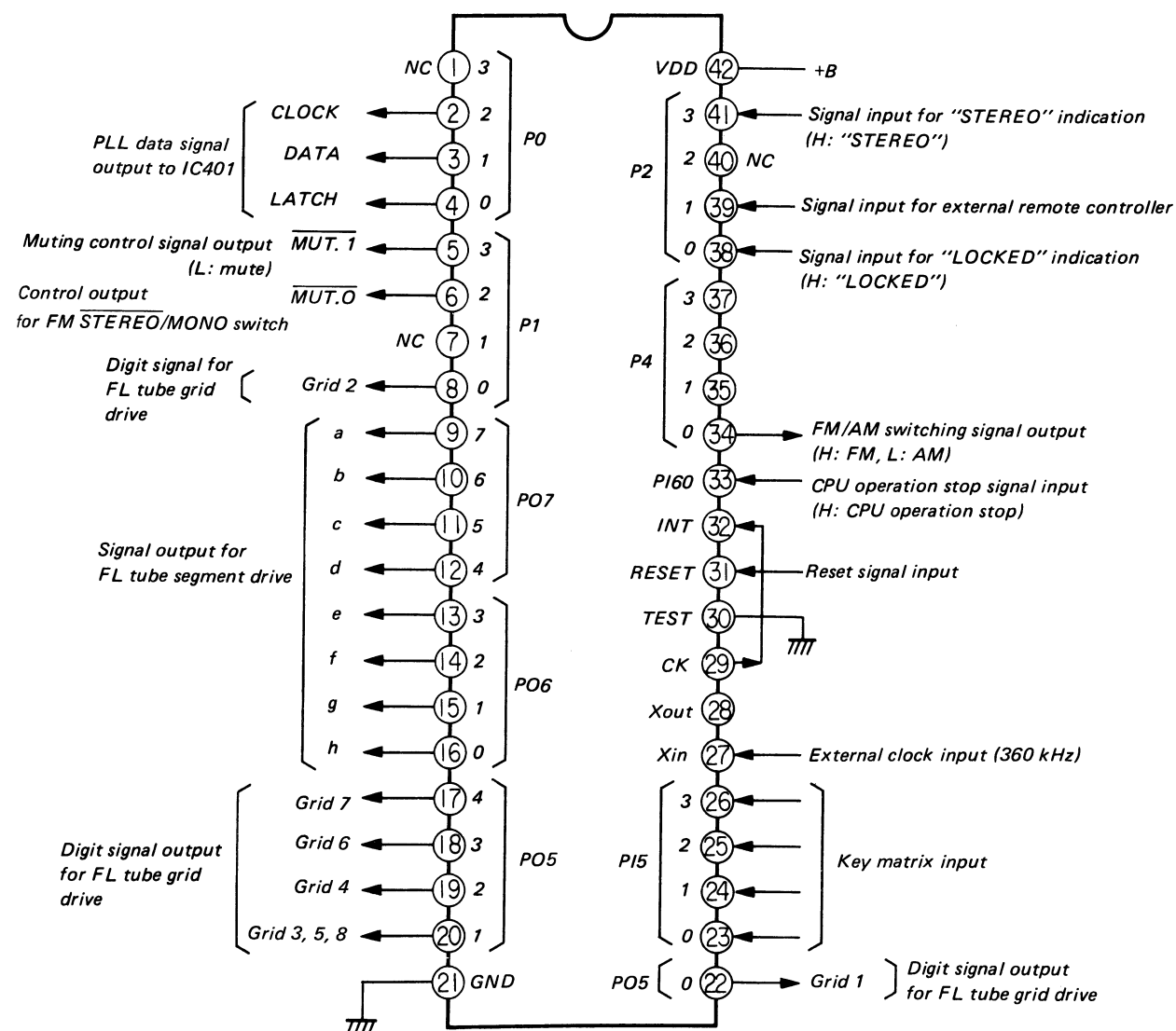
The terminal functions are as follows:

Main Functions:

- Key input detection
- Fluorescent indicator tube (FL501) indication output
- Data transmission to PLL frequency synthesizer IC (IC401: CX778A) (16 bit serial data)

IC501 Terminal Functions

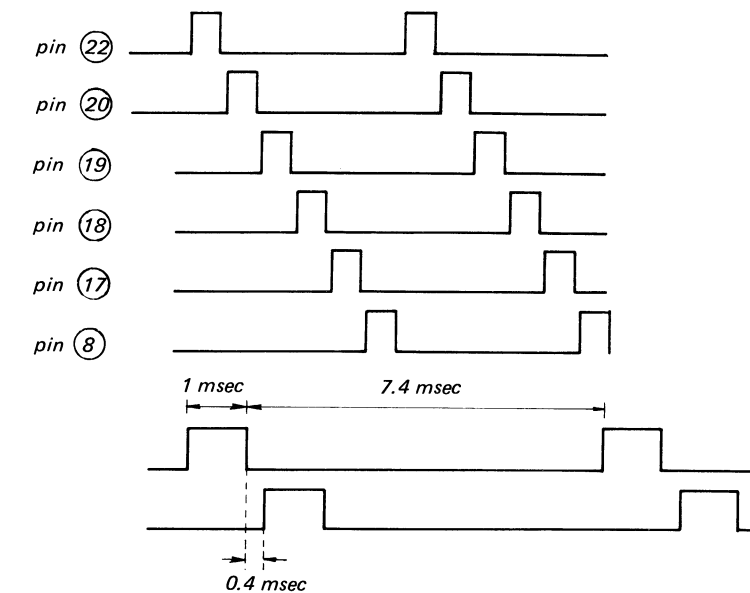
FL tube... Fluorescent Indicator Tube



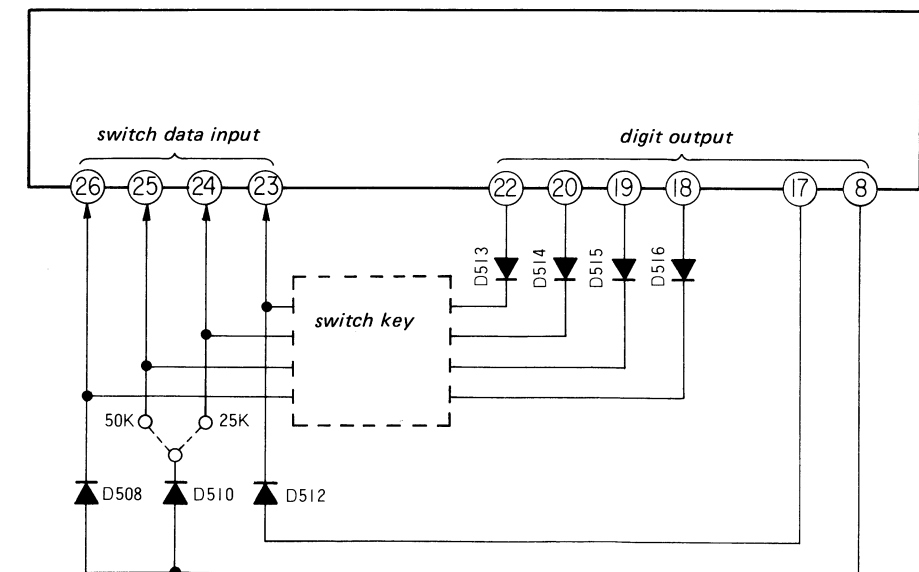
SWITCH DATA INPUT

The digit output from IC501 for tuner control is input into IC501 as each switch data by the key switch matrix, then each control output of tuner section is output.

digit output waveforms

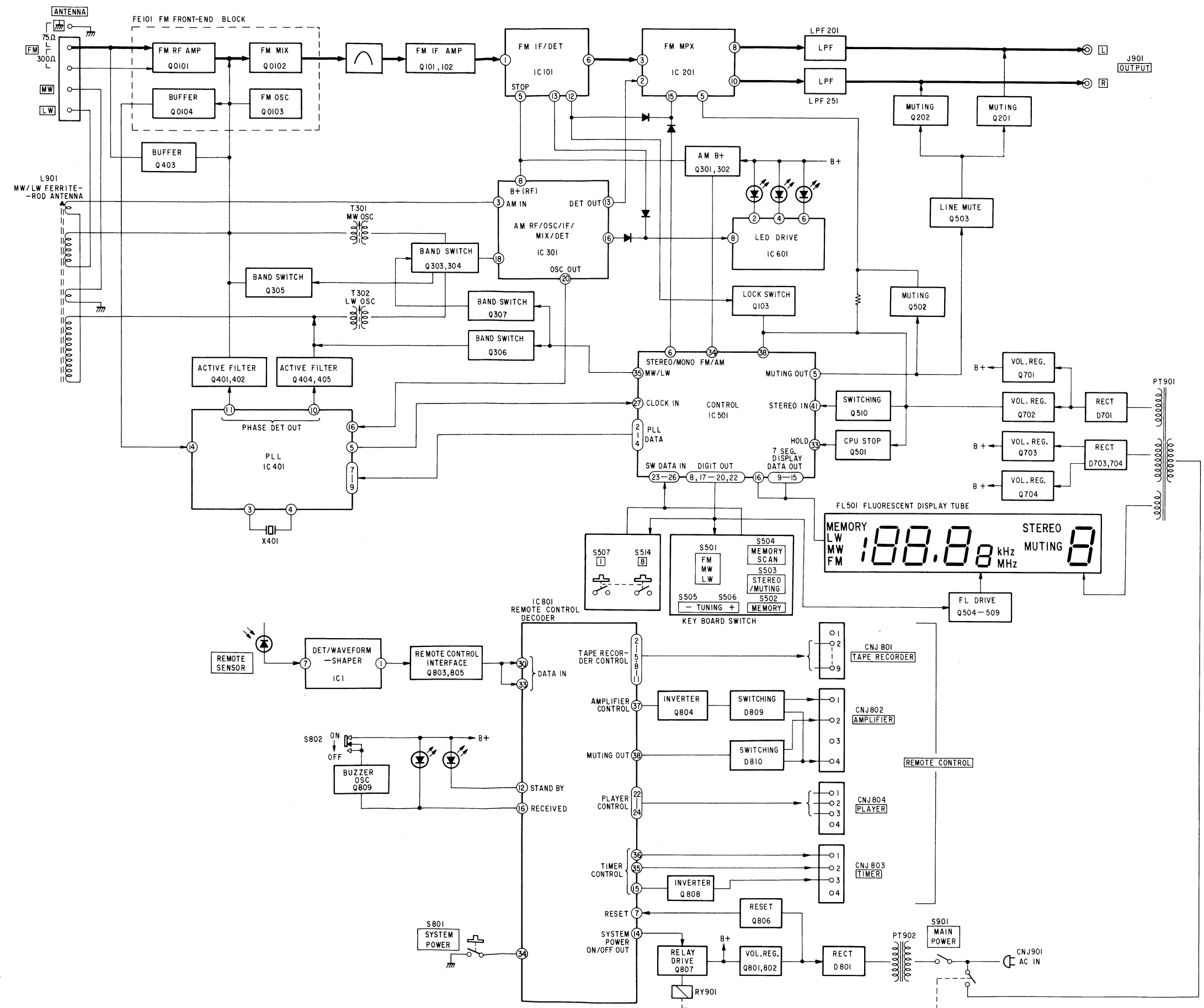


IC501 control



ST-V7L ST-V7L

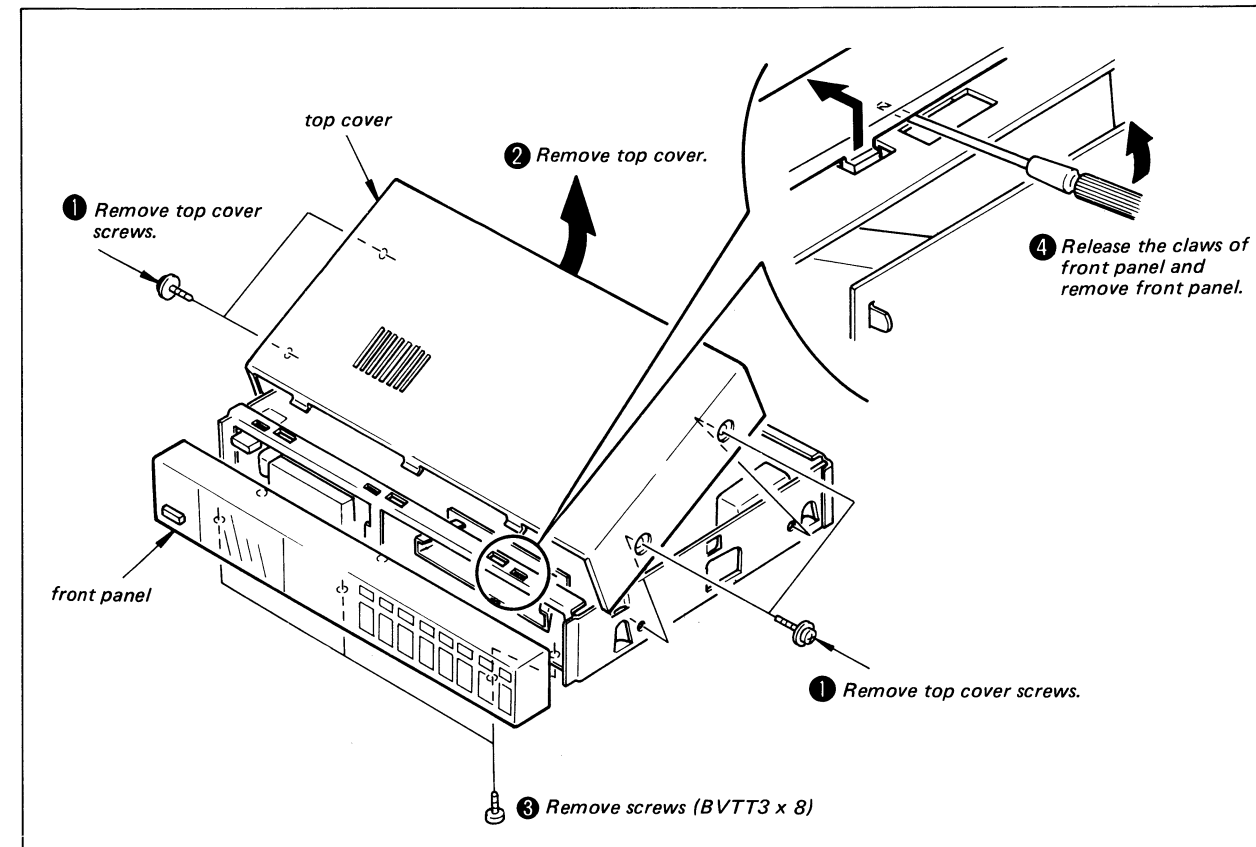
1-2. BLOCK DIAGRAM



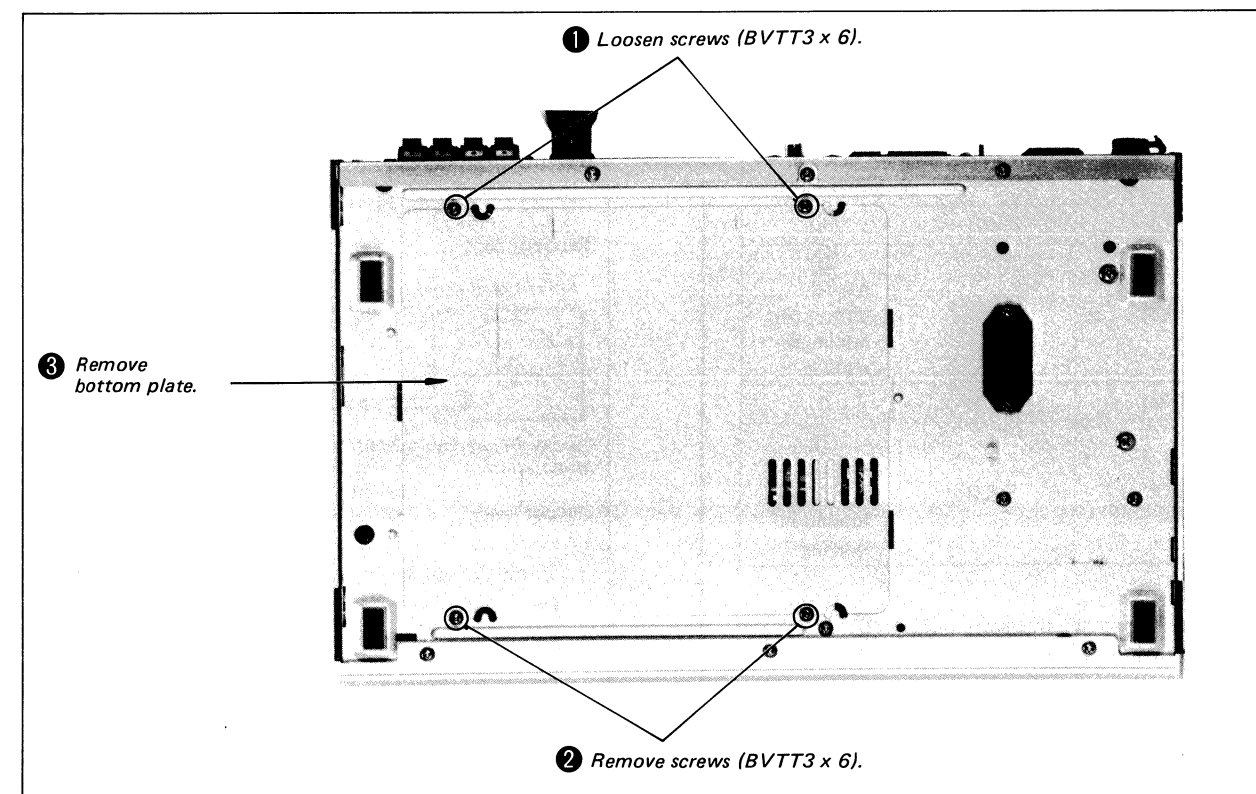
SECTION 2 DISASSEMBLY

2-1. TOP COVER AND FRONT PANEL REMOVAL

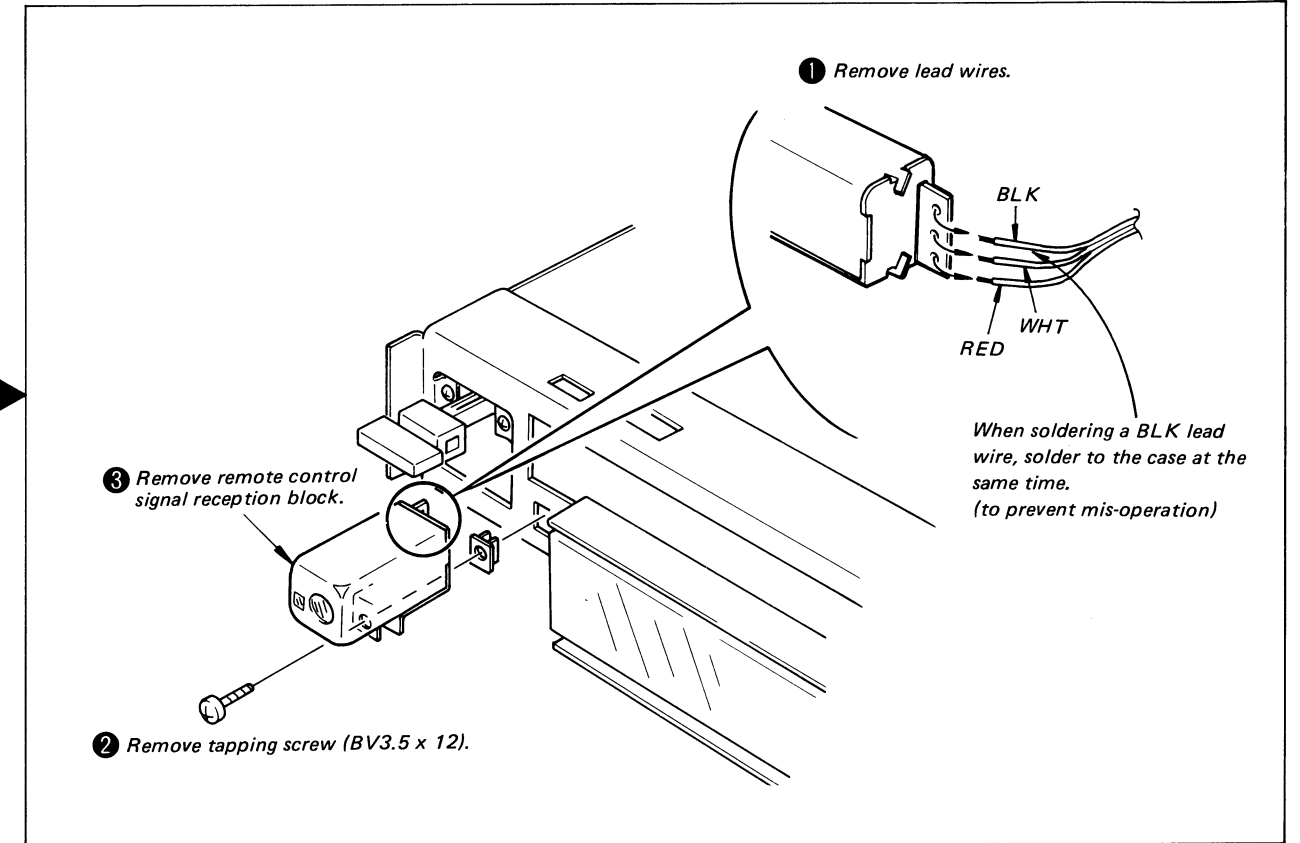
• Follow the disassembly procedure in the numerical order given.



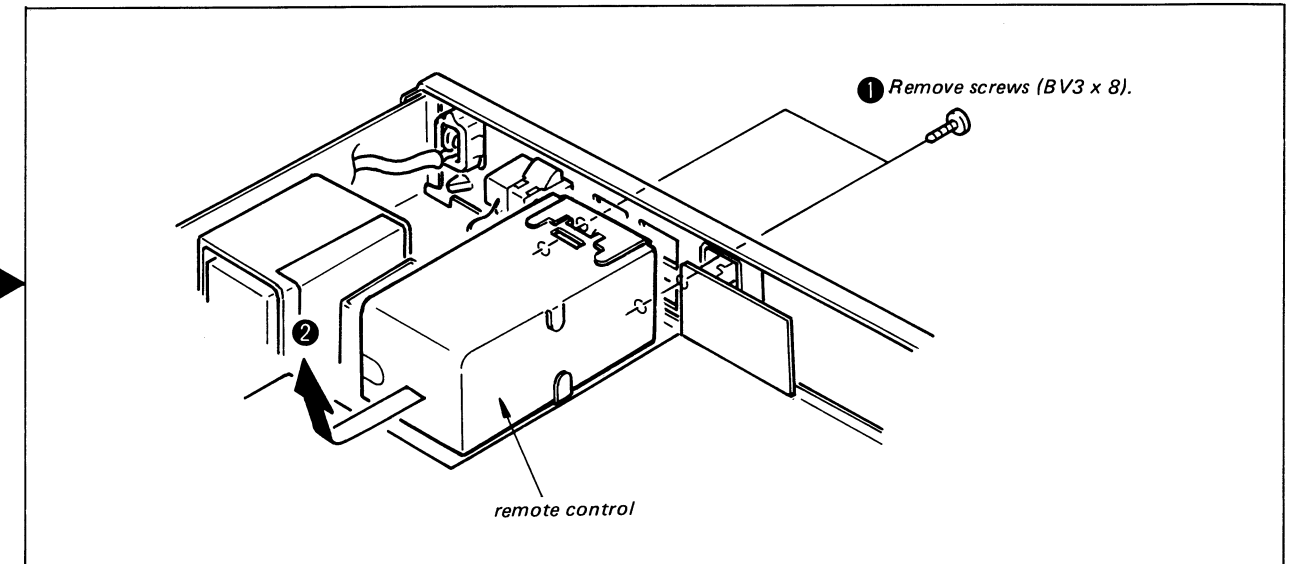
2-2. BOTTOM PLATE REMOVAL



2-3. REMOTE CONTROL SIGNAL RECEPTION BLOCK REMOVAL



2-4. REMOTE CONTROL OUTPUT SECTION REMOVAL



SECTION 3 ADJUSTMENTS

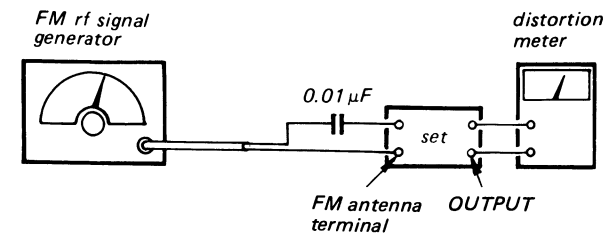
FM SECTION

FM Discriminator Alignment

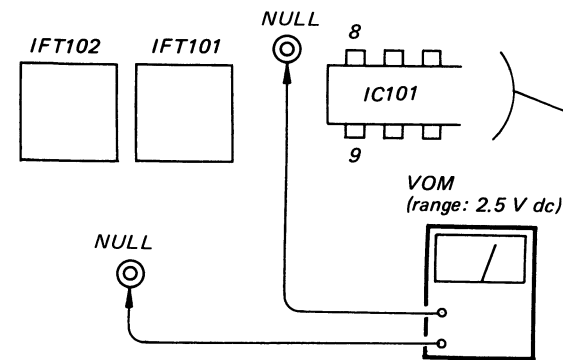
Setting:

STEREO/MUTING switch: OFF

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 400 Hz, 40 kHz deviation (100%)



1. Tune the set to 98MHz.
2. Connect a VOM to NULL test point and adjust the primary-side core (IFT101) for 0V DC reading on the VOM.
3. Adjust the secondary-side core (IFT102) for a minimum reading on the distortion meter.

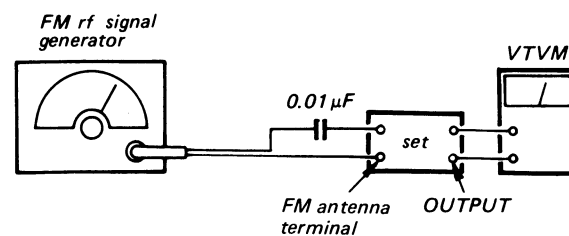
Note: Repeat the secondary-side and primary-side adjustments several times.
For step 3, adjust after removing VOM.

FM Muting Level Adjustment

Setting:

STEREO/MUTING switch: ON

Procedure:



Carrier frequency: 98 MHz
Modulation: 400 Hz, 40 kHz deviation (100 %)
Output level: 17.8 μV (25 dB)

1. Tune the set to 98MHz by pressing the MANUAL TUNING switches.
2. Adjust RT101 for a 0V reading on the VTVM.

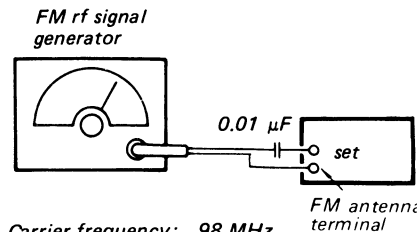
VCO Adjustment

Setting:

STEREO/MUTING Switch: OFF

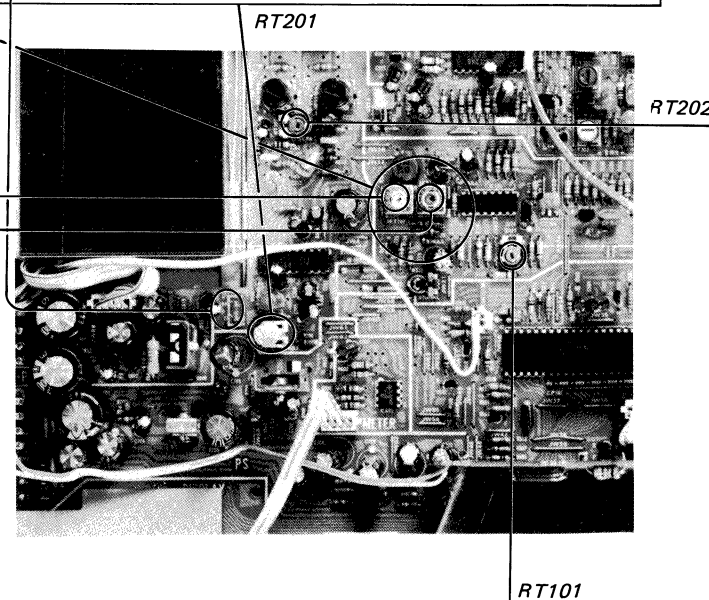
A) Regular Method

Procedure:



Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 1 mV (60 dB)

1. Tune the set to 98 MHz.
2. Adjust RT201 for 19 kHz $\pm$ 50 Hz on the counter.

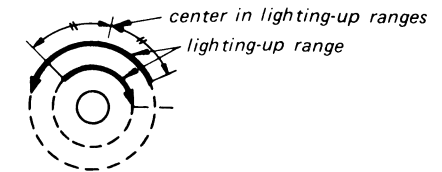


B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT201 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.

3. Secure RT201 at the center of the lighting-up range of both turns as shown below.

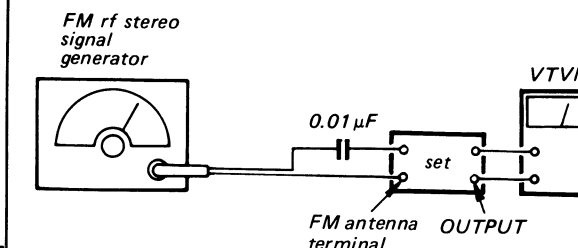


FM Stereo Separation Adjustment

Setting:

STEREO/MUTING switch: ON

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation:

Audio (400 Hz): 16.25 kHz deviation (40%)
Pilot (19 kHz): 7.5 kHz deviation (19%)
Sub-channel: 16.25 kHz deviation (40%)

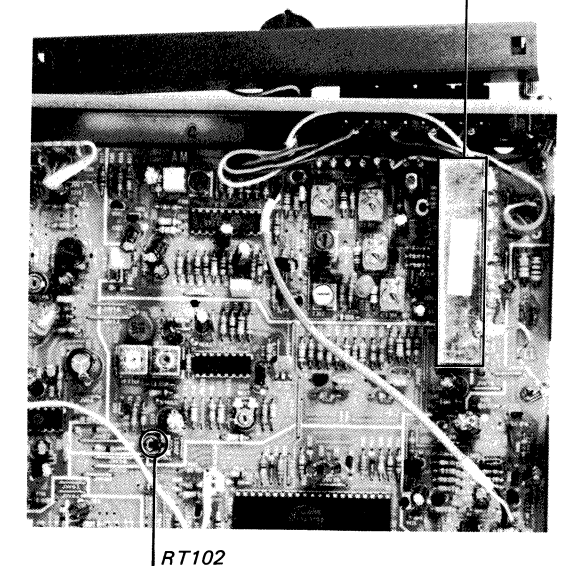
FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B)
R-CH	R-CH	(C)
L-CH	R-CH	(D)

L-CH Stereo separation: (A) - (B)
R-CH Stereo separation: (C) - (D)

The separations of both channels should be equal.

FM

The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

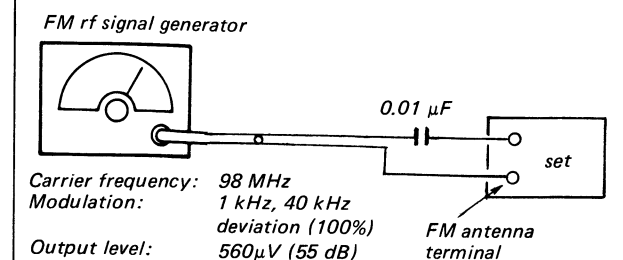


Meter Calibration

Setting:

STEREO/MUTING switch: ON

Procedure:



Carrier frequency: 98 MHz
Modulation: 1 kHz, 40 kHz deviation (100%)
Output level: 560 μV (55 dB)

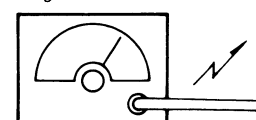
1. Tune the set to 98 MHz by pressing the TUNING (+, -) switches.
2. Adjust RT102 and fix RT102 for a location where the third LED of the SIGNAL STRENGTH display lights up.
3. Confirm that the first point lights up when the signal generator output level is 10 μV (20 dB).

MW/LW SECTION

Setting:

Band Selector: MW/LW

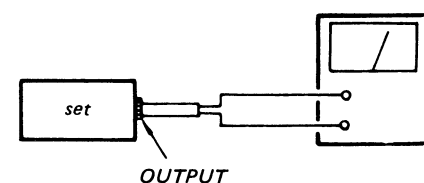
AM rf signal generator



30% amplitude modulation by 400 Hz signal

Put the lead-wire antenna close to the set.

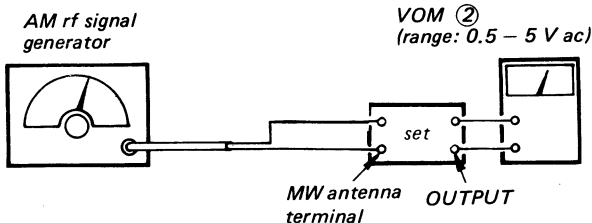
VOM (1)
(range: 0.5-5 V ac)



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ALIGNMENT

Procedure:



Carrier frequency: 1,404 kHz
30% amplitude modulation by 400 Hz signal
Output level: as low as possible

- Tune the set to 1,404 kHz and adjust IFT301 for a maximum reading on VOM (2).

MW TRACKING ADJUSTMENT

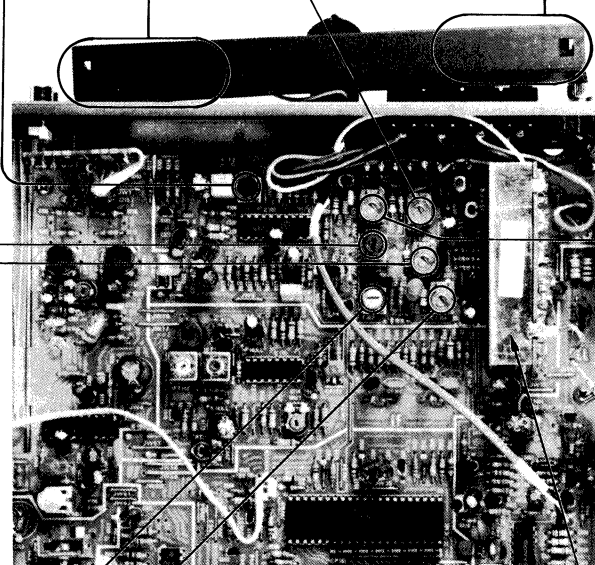
Adjust for a maximum reading on VOM (1).

L901	CT301
603 kHz	1,404 kHz

LW TRACKING ADJUSTMENT

Adjust for a maximum reading on VOM (1).

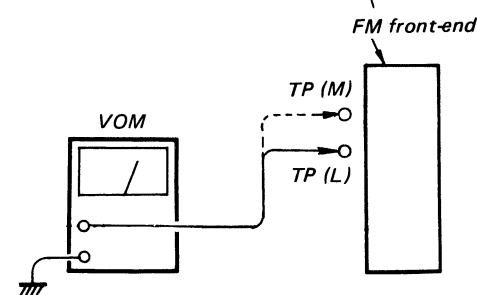
L901	CT303
170 kHz	310 kHz



T301 CT302 T302 CT304

MW/LW FREQUENCY COVERAGE ADJUSTMENT

• MW	Frequency Display	1,602 kHz	522 kHz
	Voltage at TP (M)	22 V	1.6 V
	Adjustment Parts	CT302	T301
• LW	Frequency Display	344 kHz	153 kHz
	Voltage at TP (L)	18.5 V	2.2 V
	Adjustment Parts	CT304	T302



4-1. MOUNTING DIAGRAM

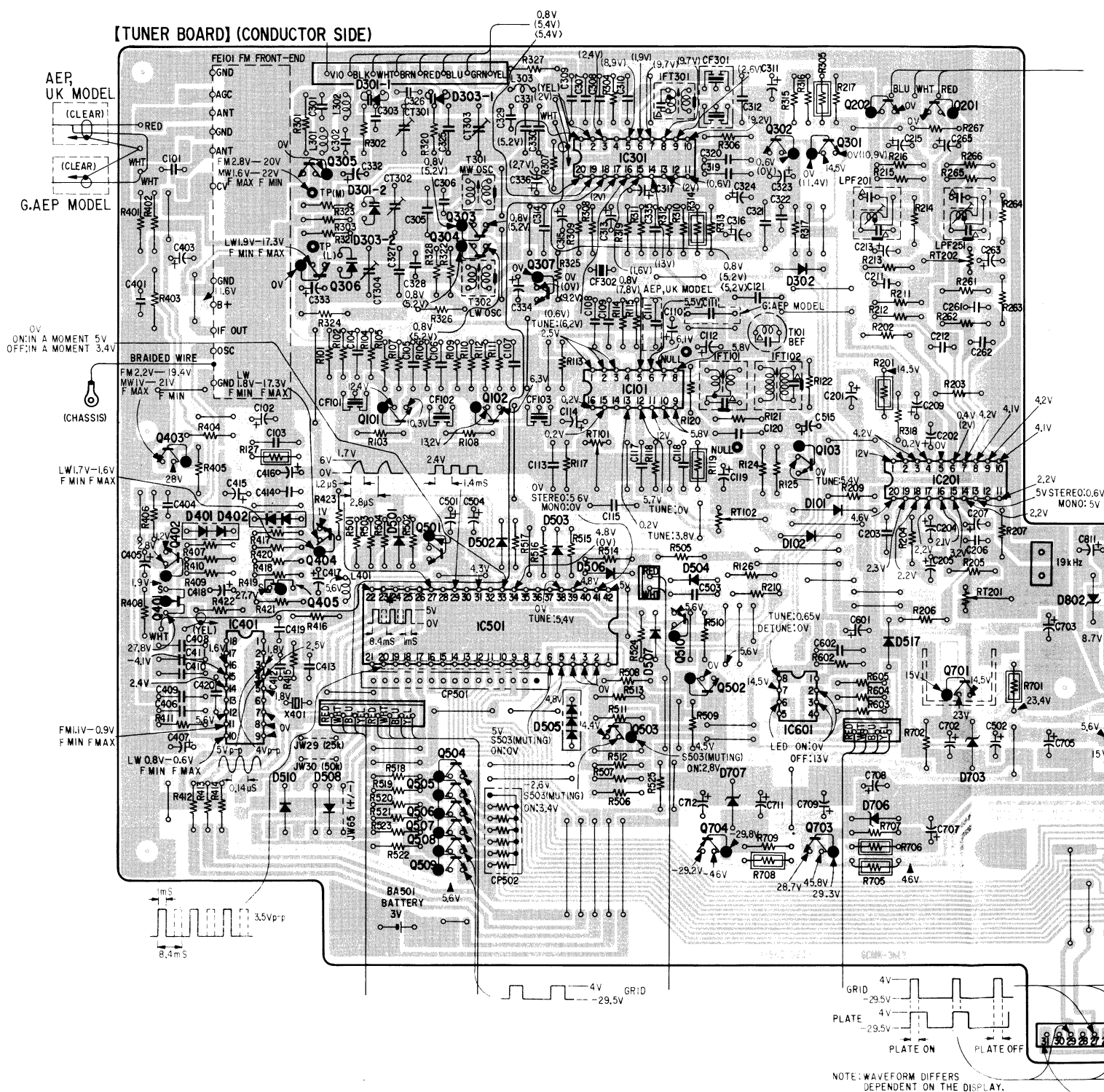
- TUNER BOARD -

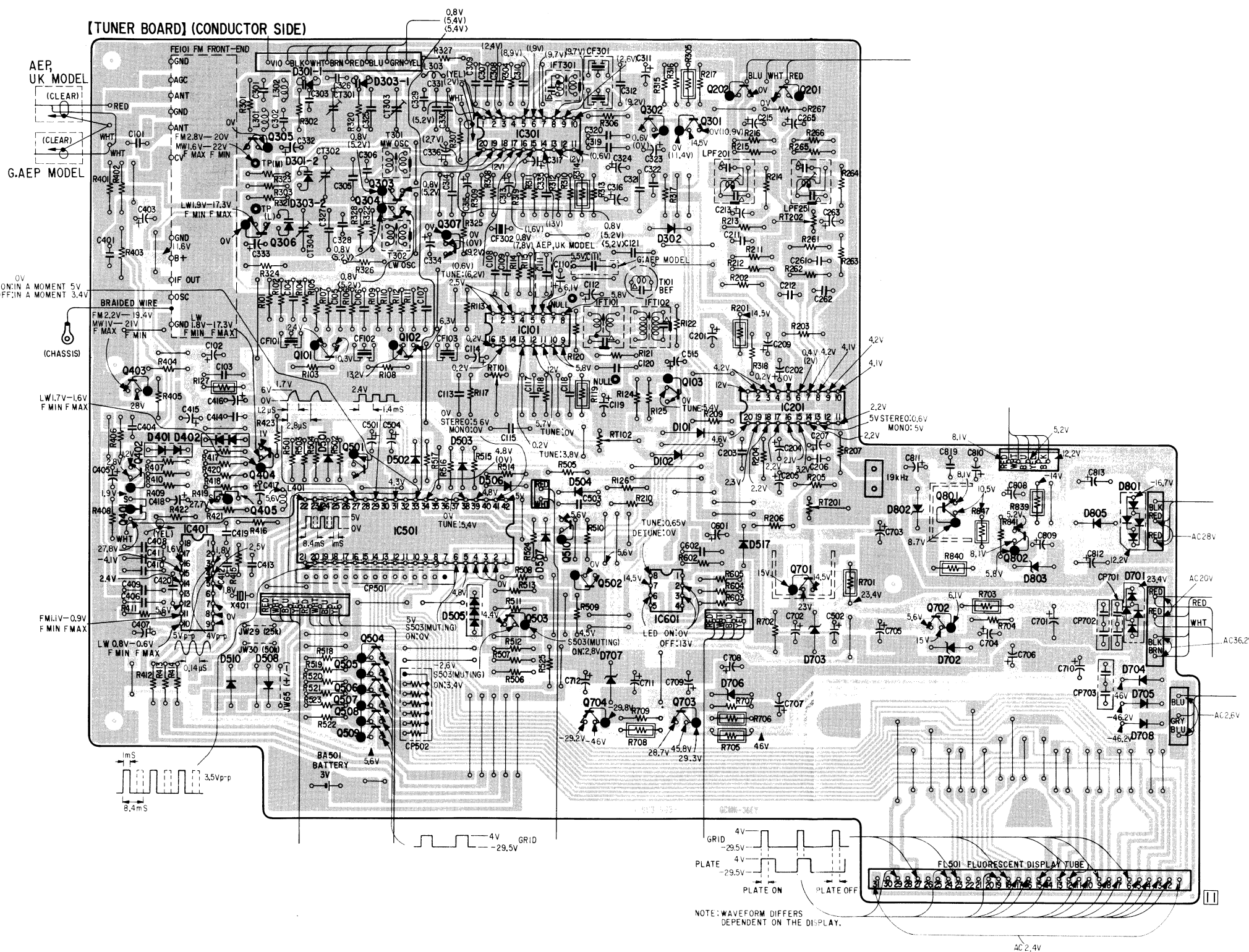
- Conductor Side -

SECTION 4 DIAGRAMS

Q	403		305	101	504	102	IC301		302	301	202	201
	402		306		501	505	IC501	IC101	510	502		IC201
	401	IC401	405	404	303	506						
					304	507	307	503		704	103	701
IC					508	509				IC601	703	
D				301-1	303-1		503	506	504			
	401	510	508	301-2		502	505	507			101	517
		402	303-2	501					707		302	706
											102	

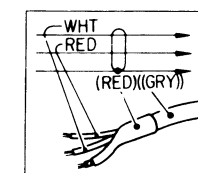
[TUNER BOARD] (CONDUCTOR SIDE)



[illegible]

Note:

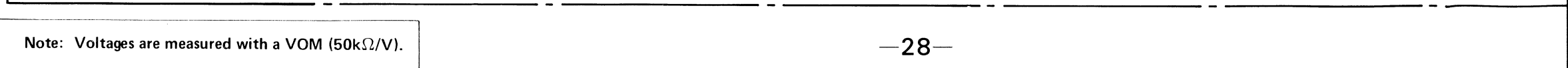
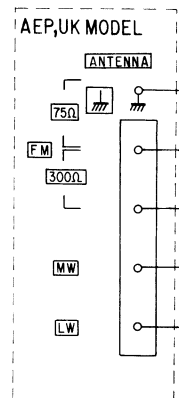
- Color code of sleeving over the end of the jacket.



- ○ : parts extracted from the component side.
- ■ : part mounted on the conductor side.
- □ : indicates side identified with part number.
- □ (FW) : nonflammable resistor.
- : B + pattern

-  : signal path
- : L-CH signal path
-  : R-CH signal path

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



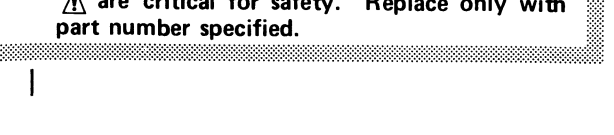
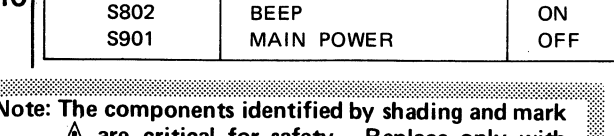
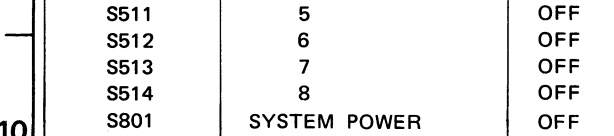
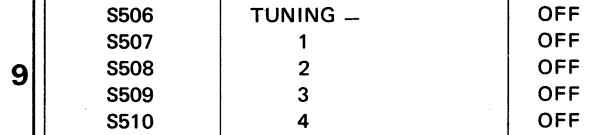
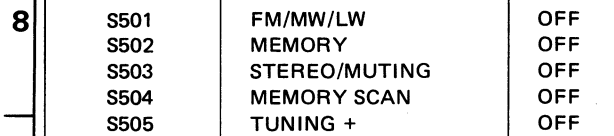
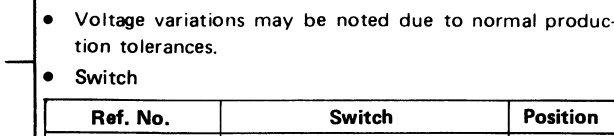
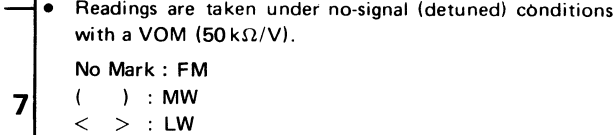
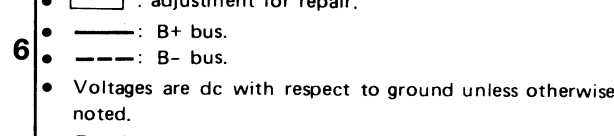
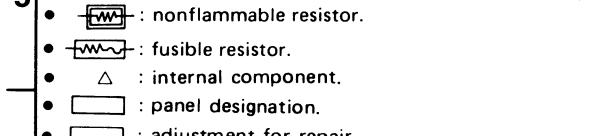
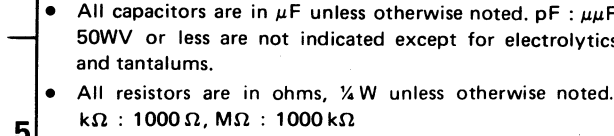
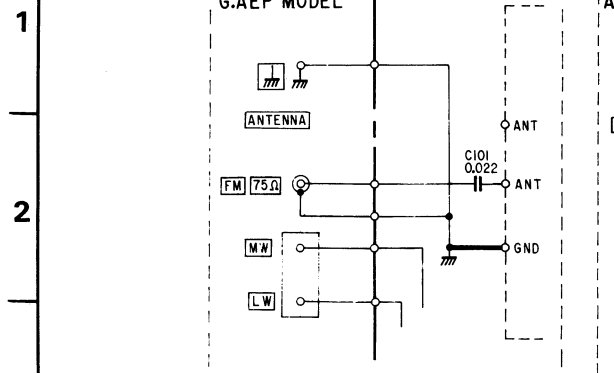
Ref. No.	Switch	Position
S501	FM/MW/LW	OFF
S502	MEMORY	OFF
S503	STEREO/MUTING	OFF
S504	MEMORY SCAN	OFF
S505	TUNING +	OFF
S506	TUNING -	OFF
S507	1	OFF
S508	2	OFF
S509	3	OFF
S510	4	OFF
S511	5	OFF
S512	6	OFF
S513	7	OFF
S514	8	OFF
S801	SYSTEM POWER	OFF
S802	BEEP	ON
S901	MAIN POWER	OFF

—27—

—28—

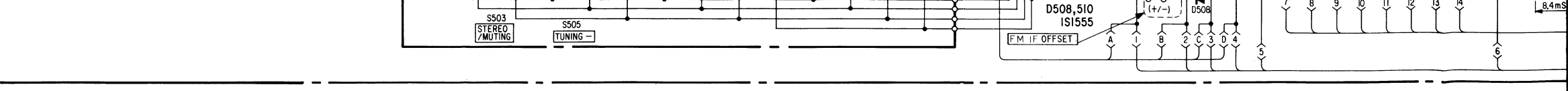
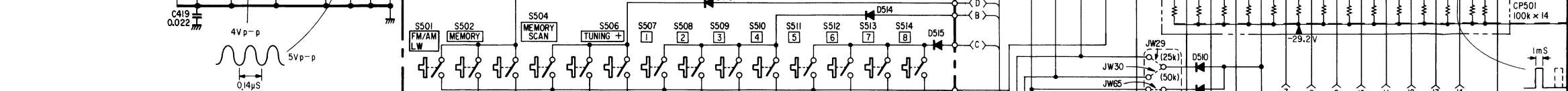
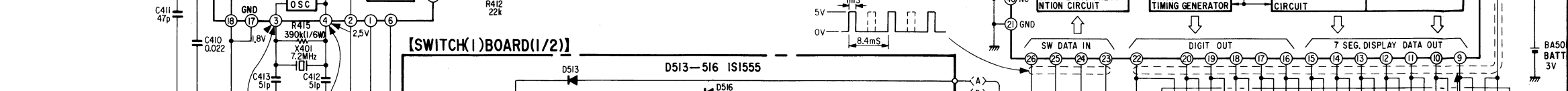
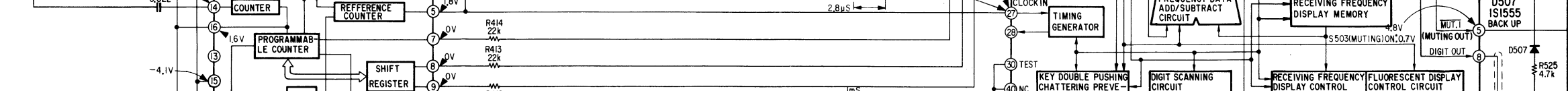
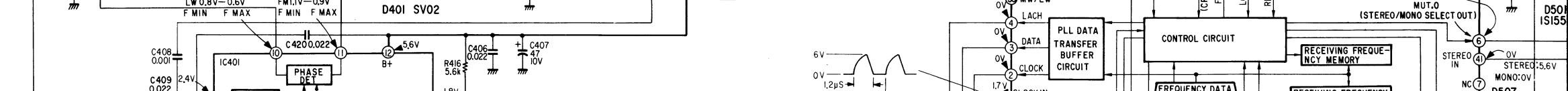
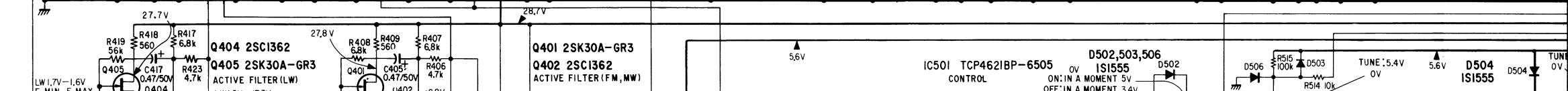
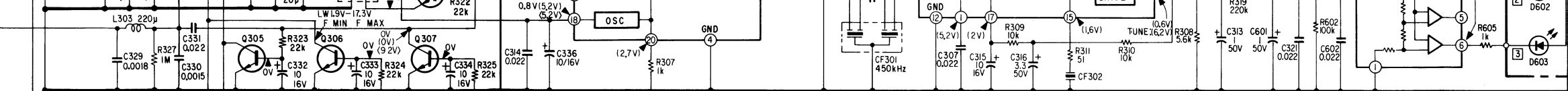
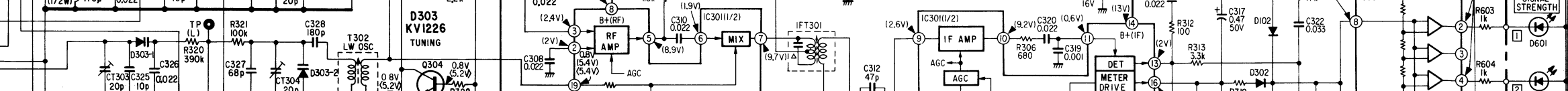
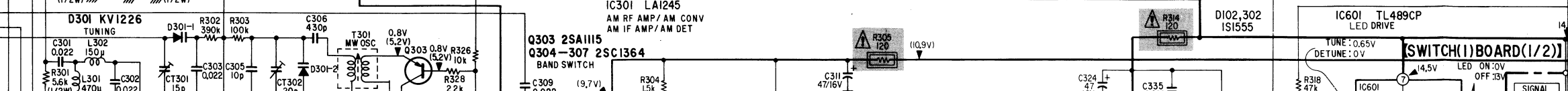
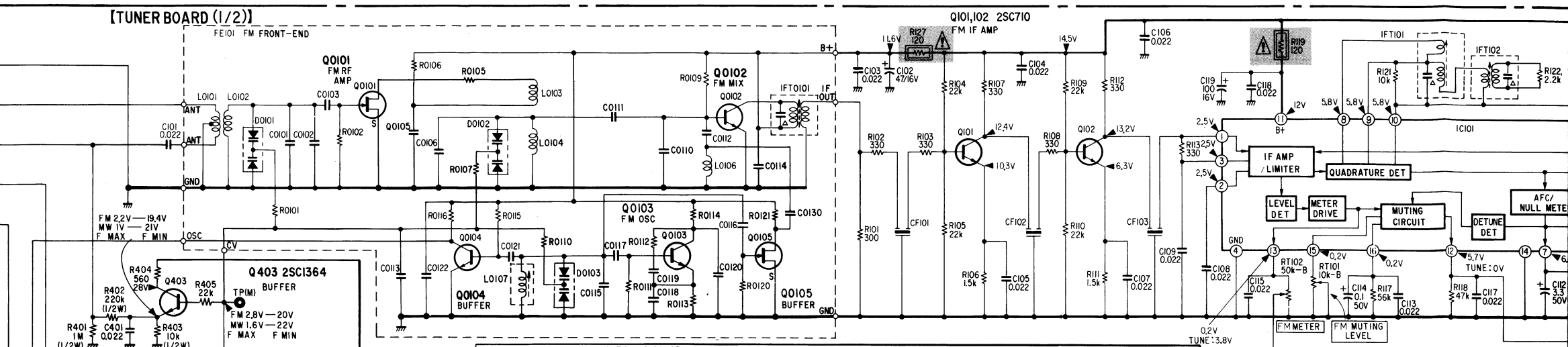
43. SCHEMATIC DIAGRAM - TUNER SECTION -

A B C D E F G H I J K L M N O P



- Note:**
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
 - : nonflammable resistor.
 - : fusible resistor.
 - : internal component.
 - : panel designation.
 - : adjustment for repair.
 - : B+ bus.
 - : B- bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under no-signal (detuned) conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
 - No Mark : FM
 - () : MW
 - < > : LW
 - Voltage variations may be noted due to normal production tolerances.
 - Switch

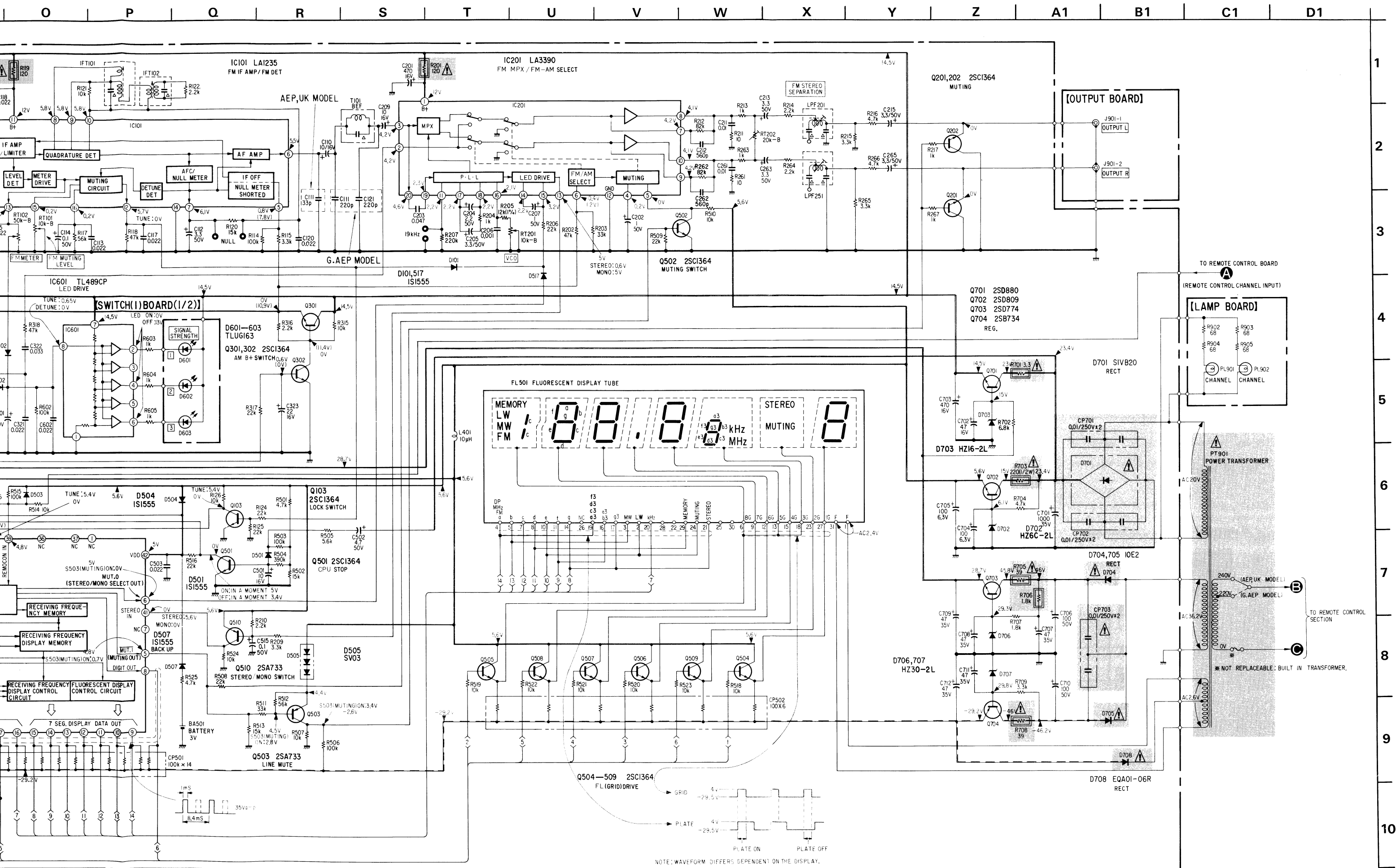
Ref. No.	Switch	Position
S501	FM/MW/LW	OFF
S502	MEMORY	OFF
S503	STEREO/MUTING	OFF
S504	MEMORY SCAN	OFF
S505	TUNING +	OFF
S506	TUNING -	OFF
S507	1	OFF
S508	2	OFF
S509	3	OFF
S510	4	OFF
S511	5	OFF
S512	6	OFF
S513	7	OFF
S514	8	OFF
S801	SYSTEM POWER	OFF
S802	BEEP	ON
S901	MAIN POWER	OFF

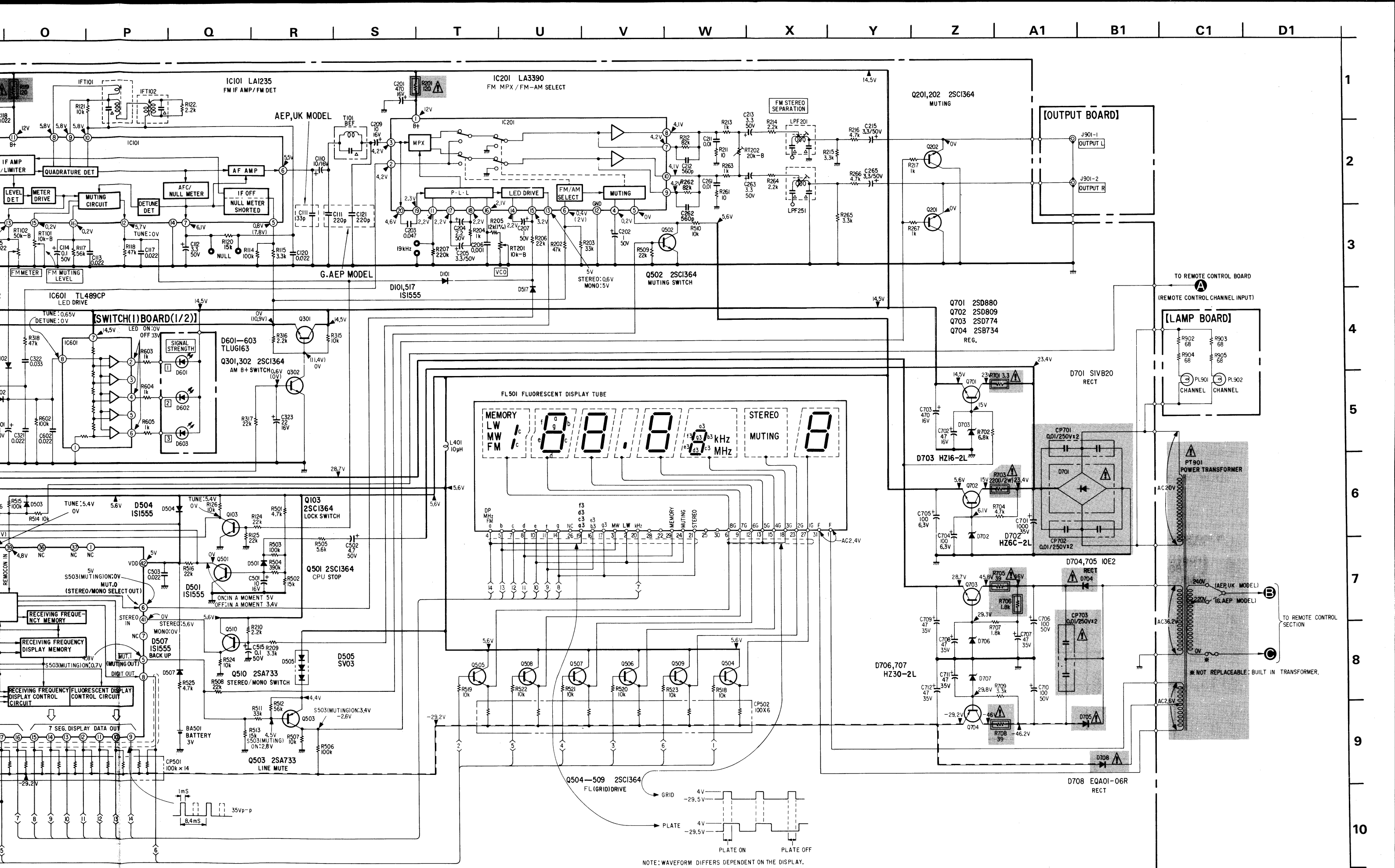


Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Voltages are measured with a VOM (50 $\text{k}\Omega/\text{V}$).

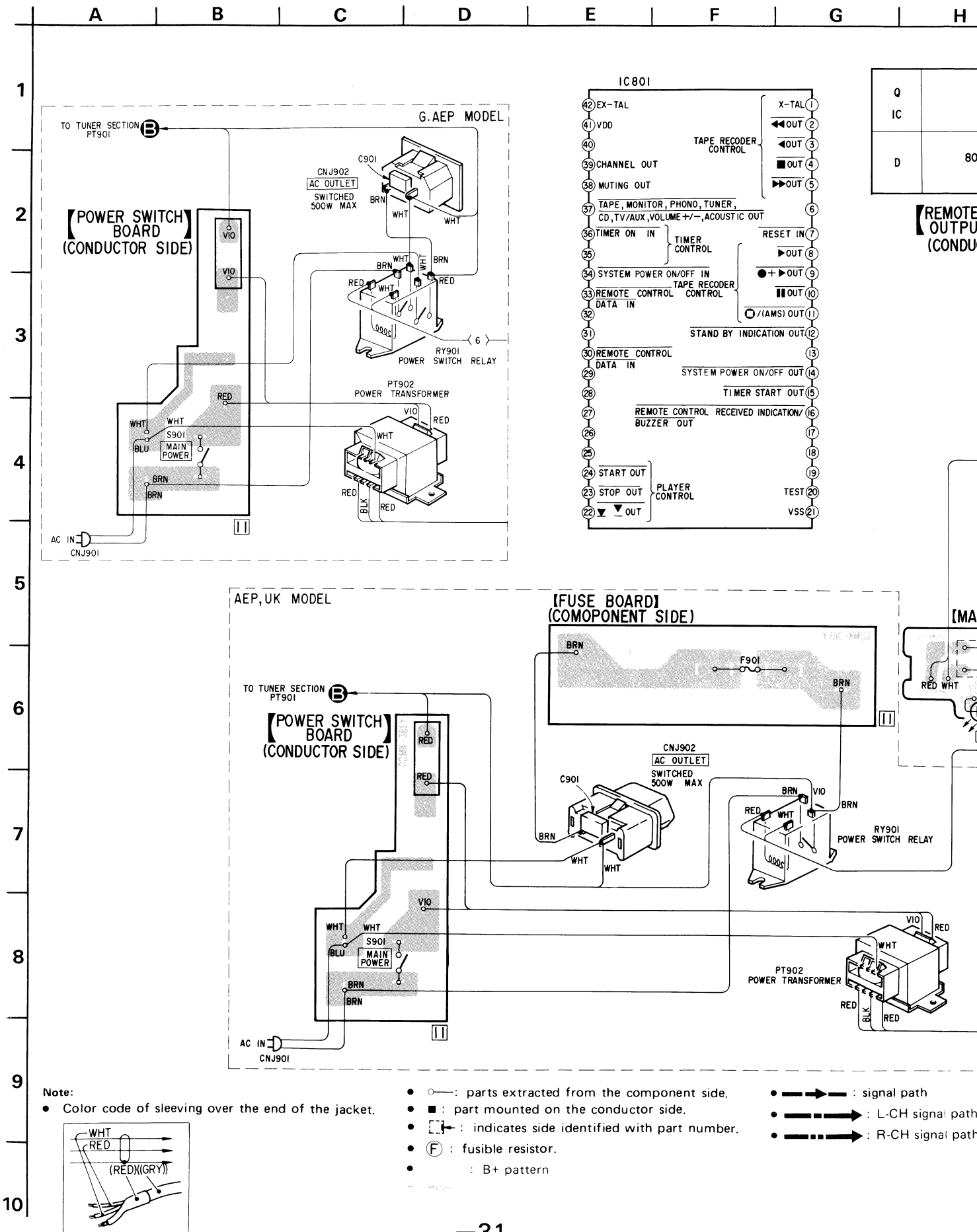
-28-





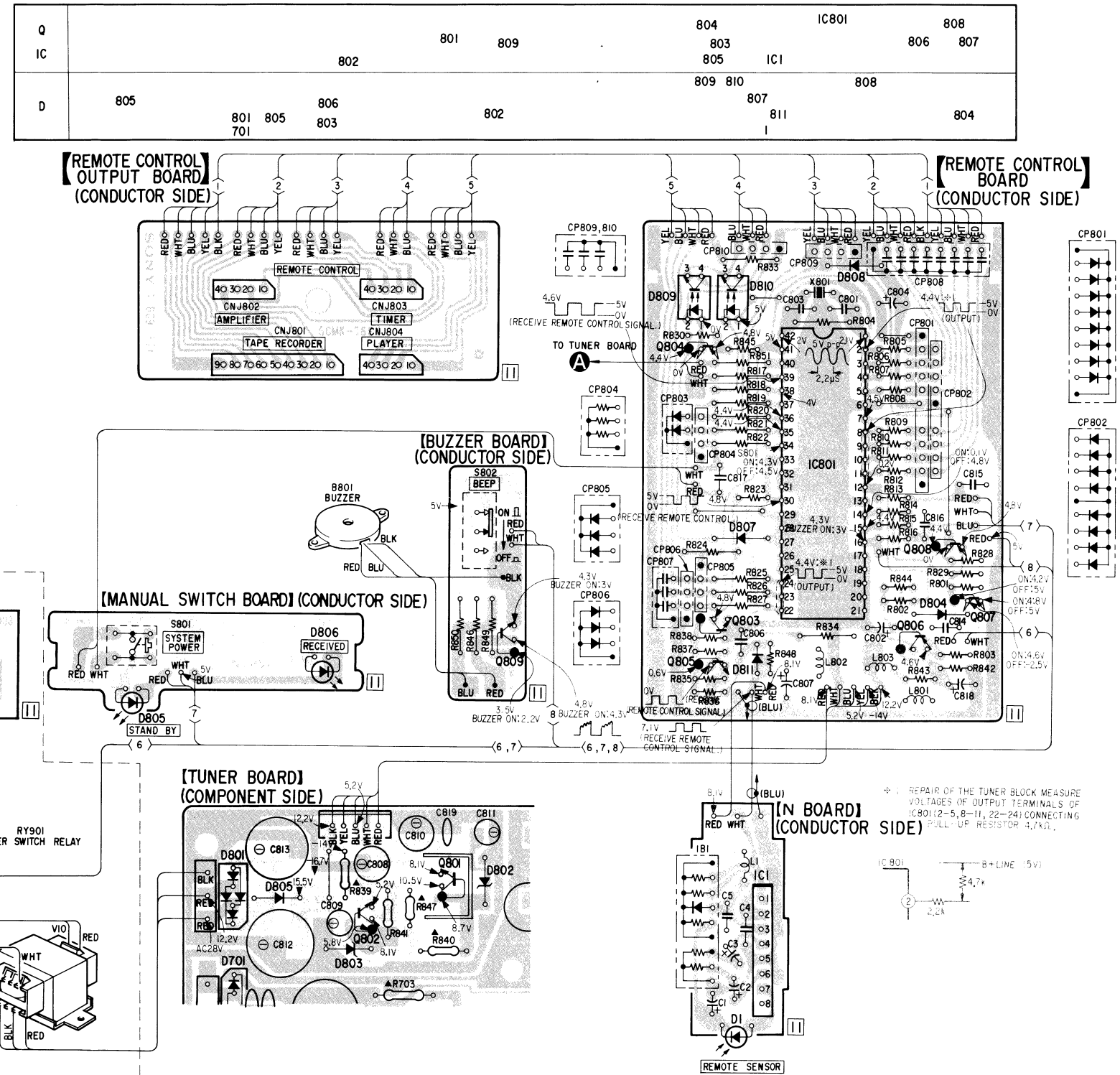
4-4. MOUNTING DIAGRAM

- REMOTE CONTROL/POWER SUPPLY SECTION -



4-5. SCHEMATIC

- REMOTE CONTROL -



Note:

- All capacitors 50WV or less and tantalums.
- All resistors kΩ : 1000 Ω
- $\square$: nonfl
- $\square$: fusible
- $\triangle$: interr
- $\square$: panel
- $\square$: adjust
- $\square$: B+ b
- $\square$: B- b
- Voltages are noted.
- Readings are with a VOM (No Mark : F () : MW < > : LW
- Voltage variation tolerance

Note: The components are part n

UK MODEL

TO TUNER SECTION

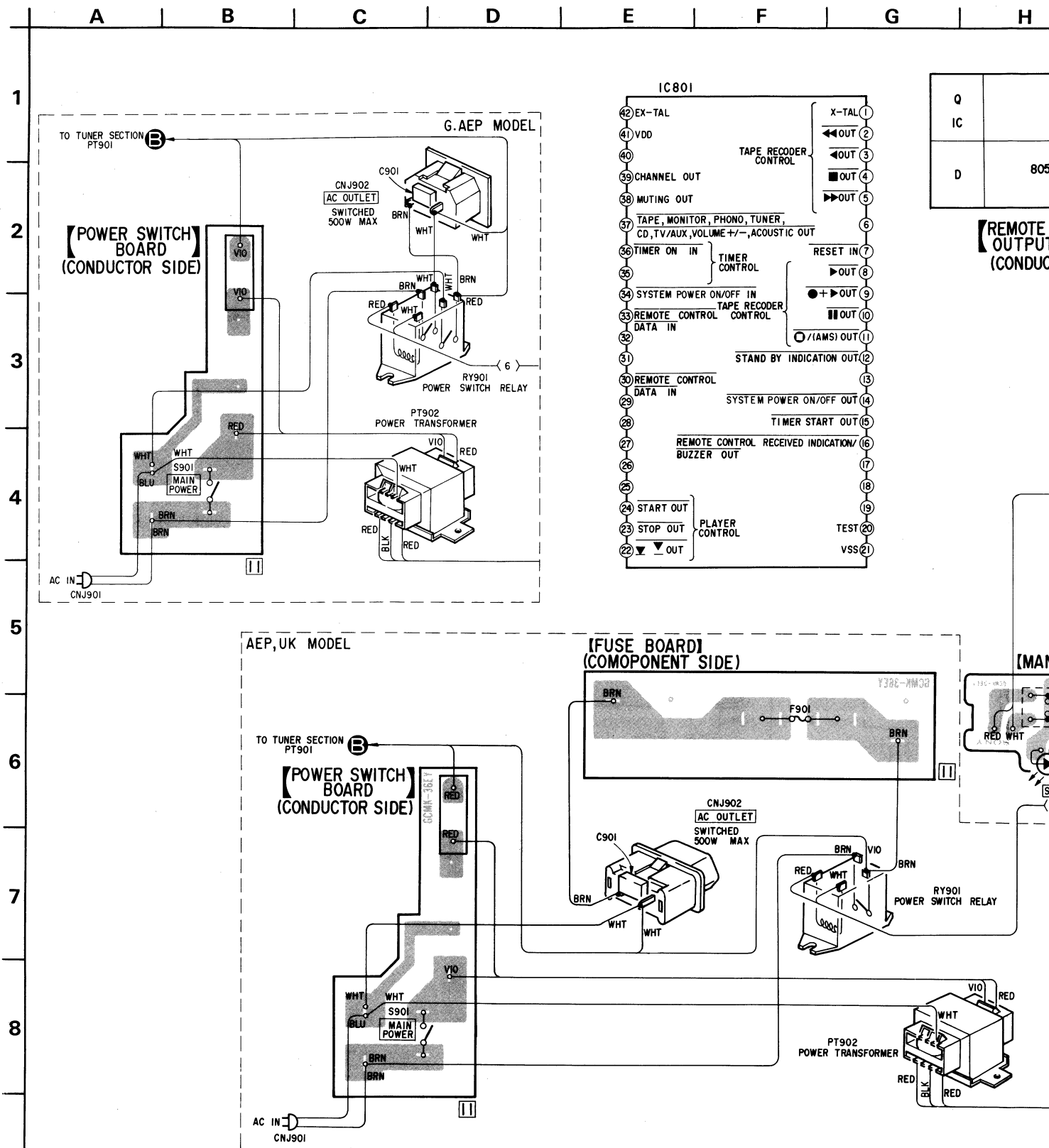
AEP, G.AEP

TO TUNER SECTION

Note: Vo

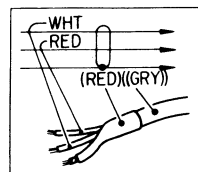
4.4. MOUNTING DIAGRAM

— REMOTE CONTROL/POWER SUPPLY SECTION —



Note:

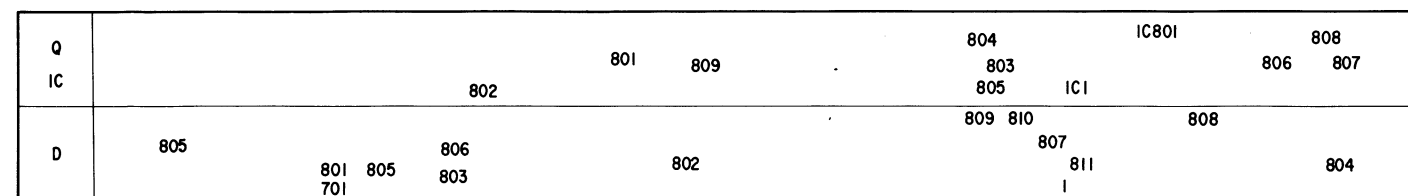
- Color code of sleeving over the end of the jacket.



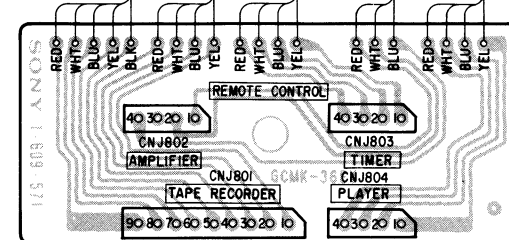
- — : parts extracted from the component side.
- : part mounted on the conductor side.
- — : indicates side identified with part number.
- ⊕ : fusible resistor.
- ⊖ : B+ pattern
- ⊕ : B- pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

4.5. SCHEMATIC

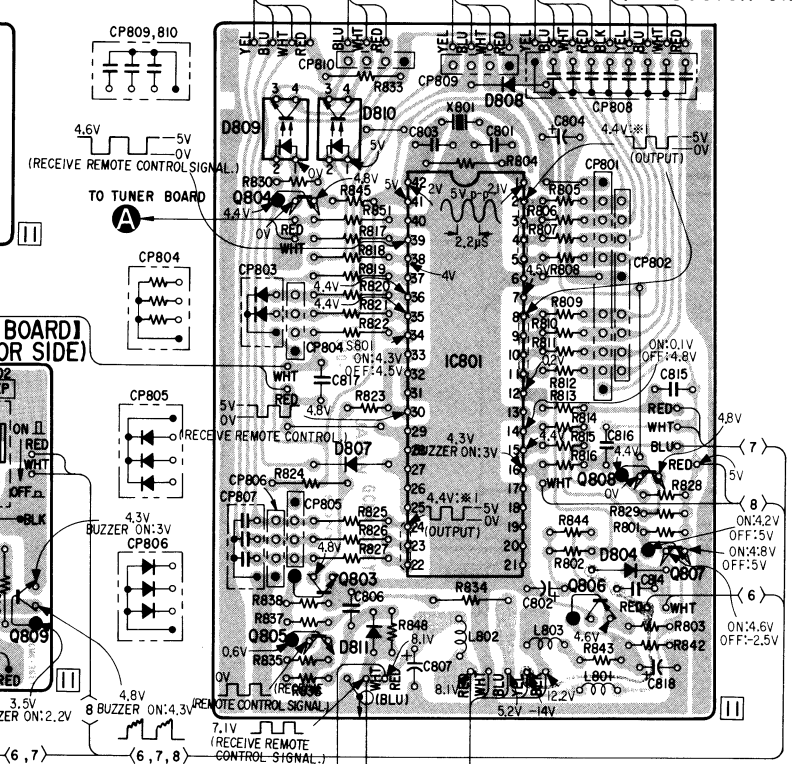
— REMOTE CONTROL —



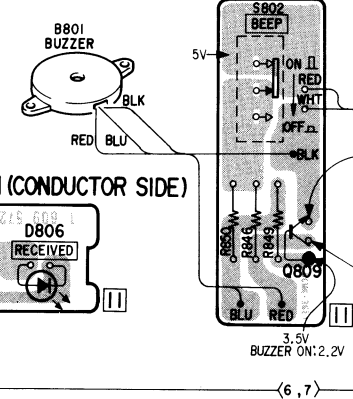
[REMOTE CONTROL OUTPUT BOARD (CONDUCTOR SIDE)]



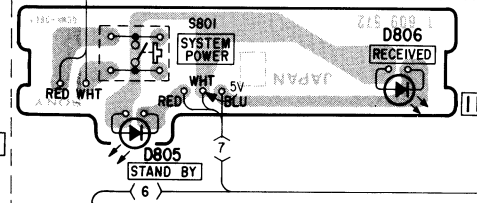
[REMOTE CONTROL BOARD (CONDUCTOR SIDE)]



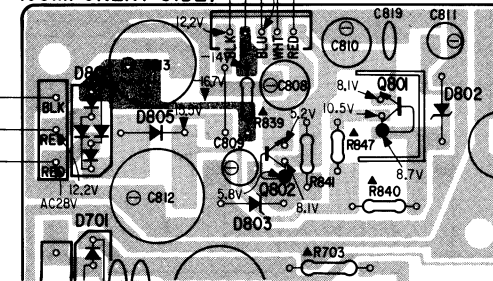
[BUZZER BOARD (CONDUCTOR SIDE)]



[MANUAL SWITCH BOARD (CONDUCTOR SIDE)]



[TUNER BOARD (COMPONENT SIDE)]



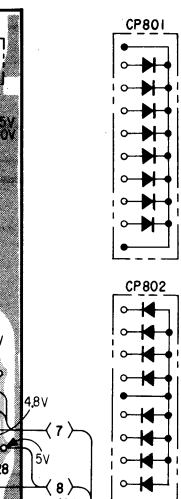
4-5. SCHEMATIC DIAGRAM

- REMOTE CONTROL/POWER SUPPLY SECTION -

Note:

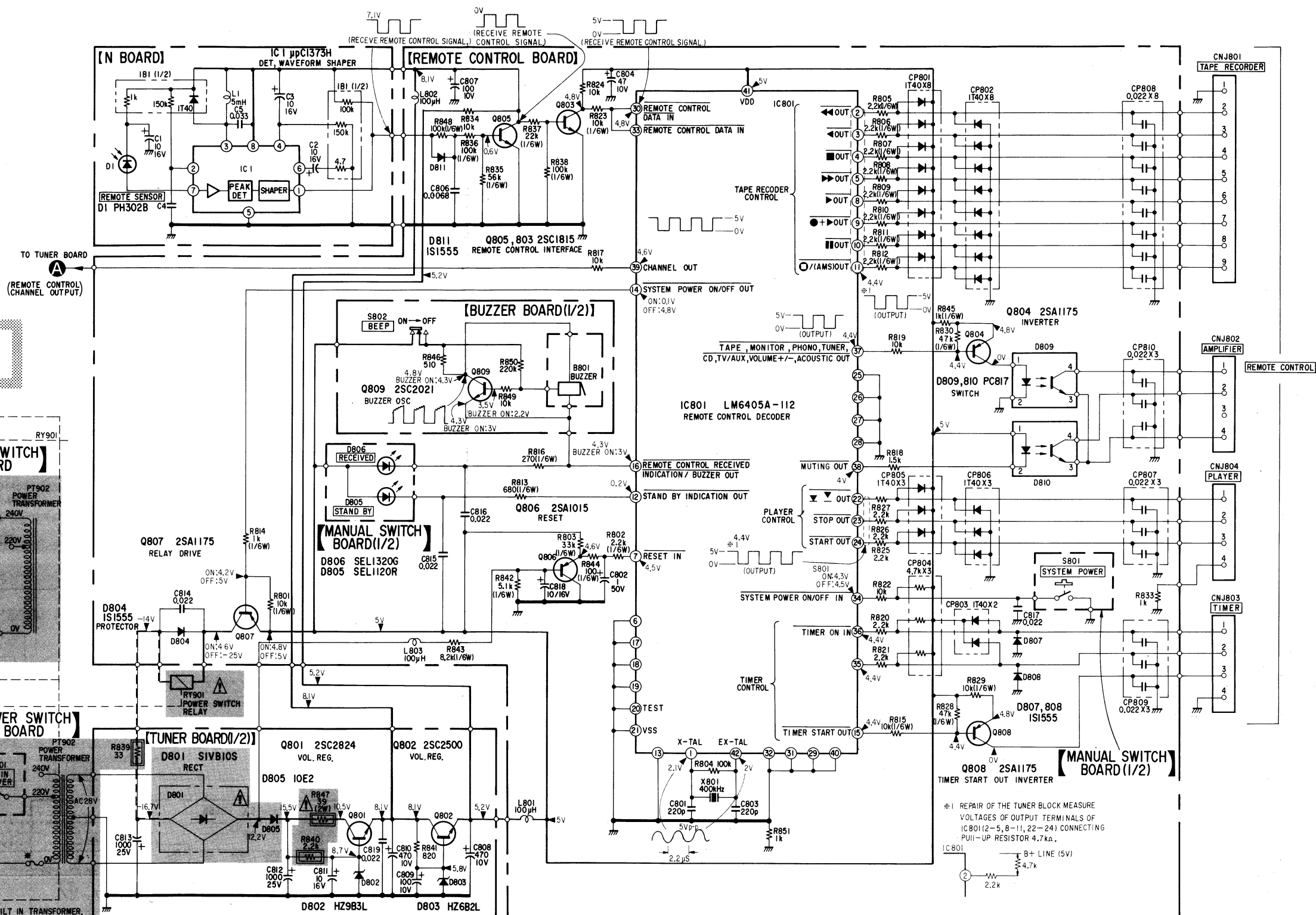
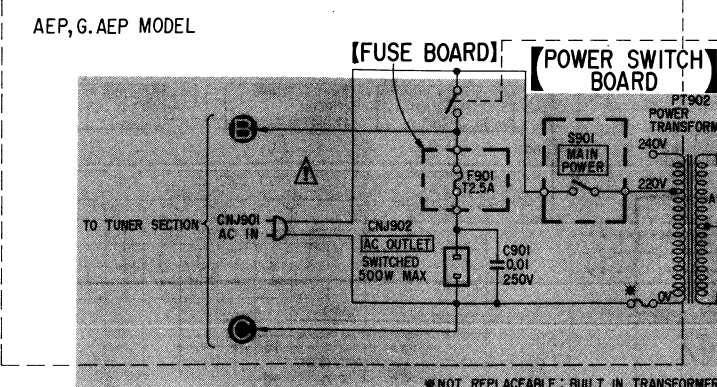
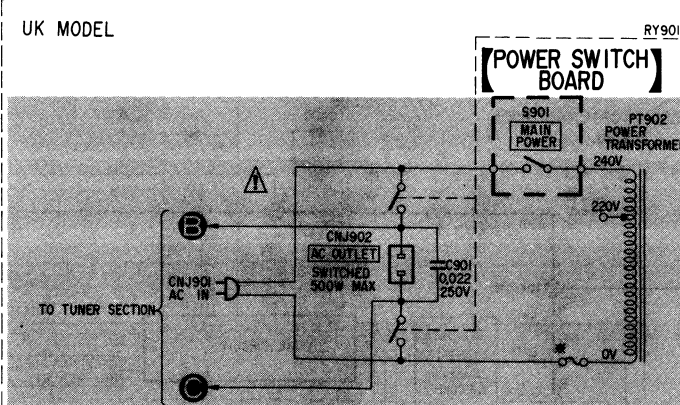
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- - -: B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- No Mark: FM
- (): MW
- < >: LW
- Voltage variations may be noted due to normal production tolerances.

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

TE CONTROL
BOARD
(CTOR SIDE)

TUNER BLOCK MEASURE
PUT TERMINALS OF
22-24) CONNECTING
SISTOR 4.7k Ω .

+LINE (5V)

Note: Voltages are measured with a VOM (50 $\text{k}\Omega/\text{V}$).

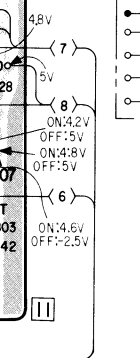
4-5. SCHEMATIC DIAGRAM

— REMOTE CONTROL/POWER SUPPLY SECTION —

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- - - : B- bus.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- No Mark : FM
- () : MW
- < > : LW
- Voltage variations may be noted due to normal production tolerances.

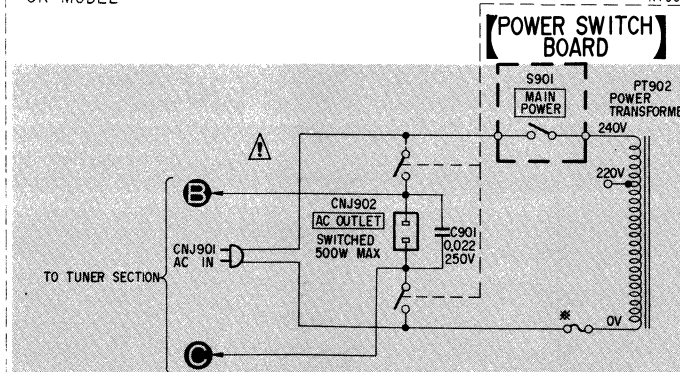
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

TE CONTROL
BOARD
(CTOR SIDE)TUNER BLOCK MEASURE
OUTPUT TERMINALS OF
22-24) CONNECTING
RESISTOR 4.7k Ω .

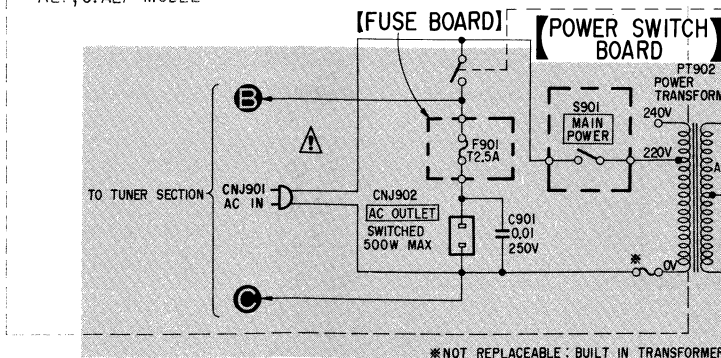
3+LINE (5V)

A

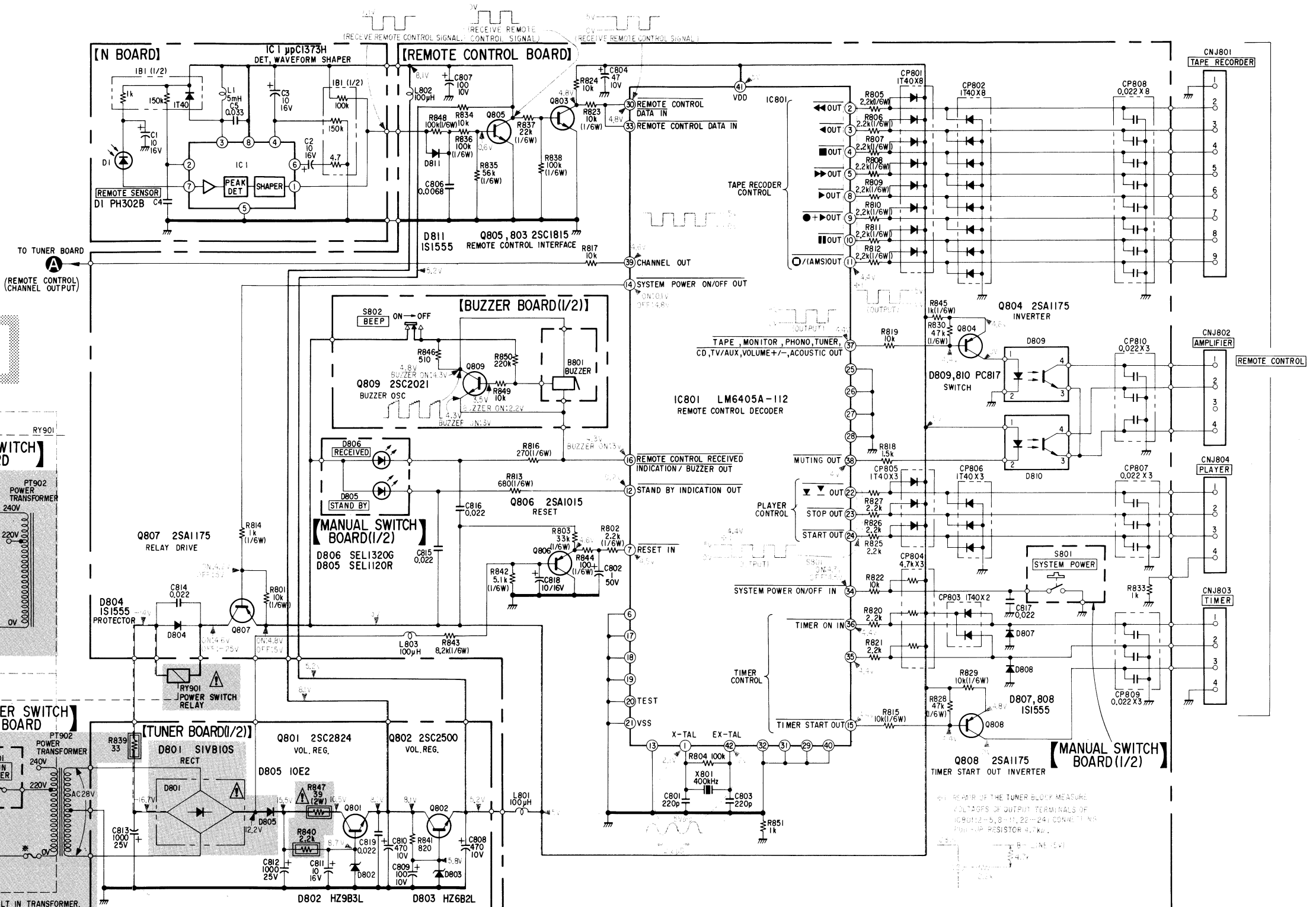
UK MODEL



AEP, G. AEP MODEL

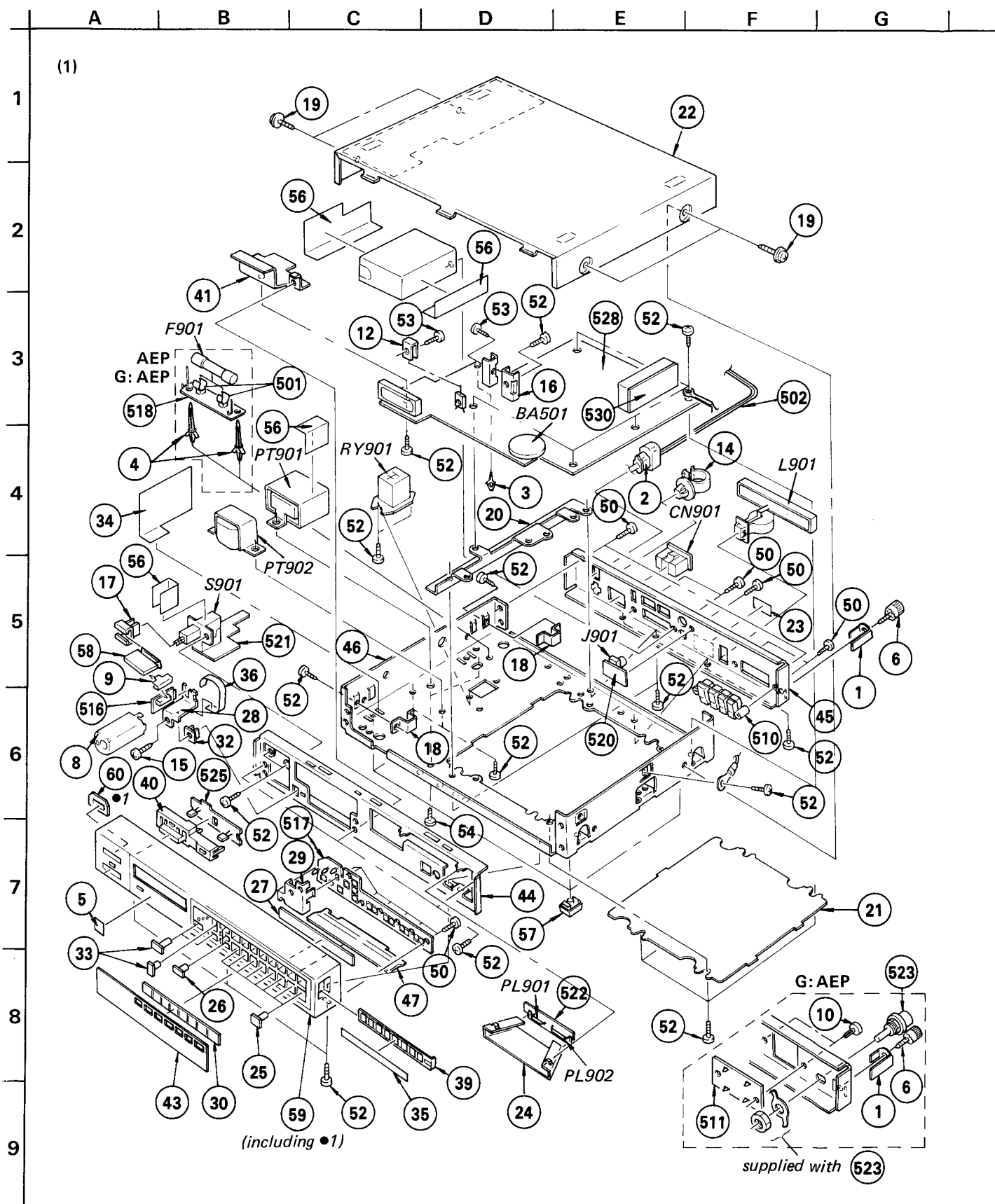


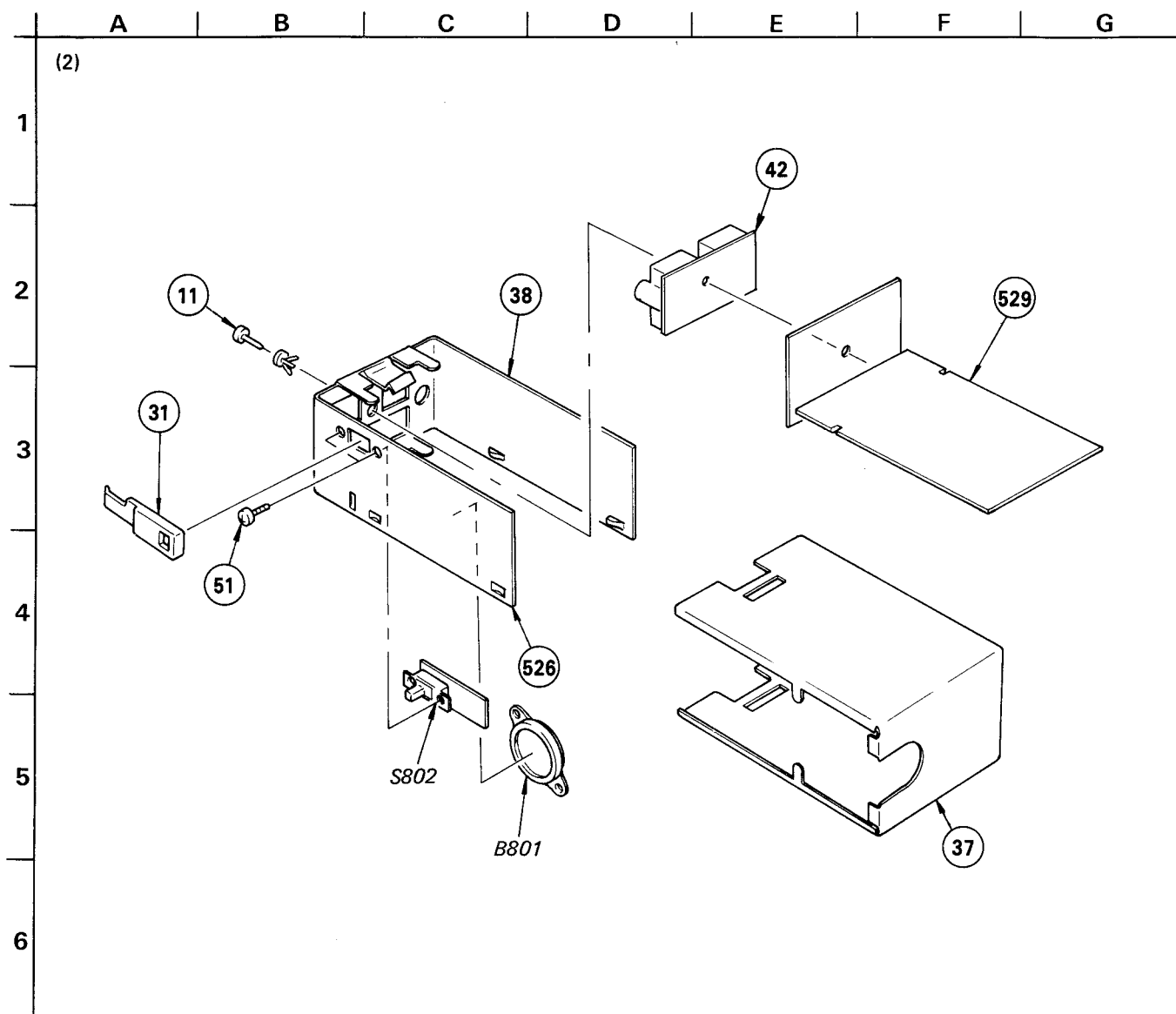
*NOT REPLACEABLE: BUILT IN TRANSFORMER.

Note: Voltages are measured with a VOM (50 $\text{k}\Omega/\text{V}$).

SECTION 5

EXPLODED VIEWS AND PARTS LIST





GENERAL SECTION

No.	Part No.	Description
1	3-701-993-00	SPACER, TERMINAL
2	3-703-244-00	BUSHING, CORD
3	♣;3-703-353-02	SUPPORT, PC BOARD
4	♣;3-703-353-06	(AEP, G-AEP) SUPPORT, PC BOARD
5	3-703-713-01	STICKER, SONY SYMBOL (10)
6	3-706-165-00	SCREW
7	3-831-441-11	CUSHION, 23X4X0.5
8	♣;4-342-117-00	CASE, SHIELD (MAIN), R
9	♣;4-348-551-00	PLATE, SHIELD
10	4-812-134-00	(G-AEP)...RIVET NYLON, 3.5
11	4-812-134-11	RIVET NYLON, 3.5
12	♣;4-866-080-00	HEAT SINK
13	♣;4-866-397-00	CUSHION, LED
14	4-869-217-00	CLIP, CORD
15	4-874-614-31	SCREW, TAPPING, BV (+) (3.5)
16	♣;4-875-327-01	HEAT SINK
17	4-875-466-00	JOINT (F2), KNOB
18	♣;4-886-809-00	SUPPORT
19	4-886-821-11	SCREW, M3 CASE
20	♣;4-886-836-00	CHANNEL
21	♣;4-886-844-01	PLATE, BOTTOM
22	4-886-845-11	CASE
23	4-886-904-00	(AEP)...LABEL, MODEL NUMBER
23	4-886-905-00	(UK)...LABEL, MODEL NUMBER
24	♣;4-886-917-00	HOUSE, LAMP
25	♣;4-886-918-00	PUSH BLOCK (A)
26	♣;4-886-919-00	PUSH BLOCK (B)
27	♣;4-886-920-00	ILLUMINATOR
28	♣;4-886-921-00	LID, SHIELD CASE
29	♣;4-886-922-00	HOLDER, LED
30	4-886-923-00	ESCUTCHEON, INDICATION PLATE
31	4-886-924-00	LINK, BUZZER
32	♣;4-886-925-00	GROMMET
33	♣;4-886-926-00	PUSH BLOCK (C)
34	♣;4-886-927-00	INSULATOR (A)
35	4-886-932-00	LABEL (E), INDICATOR
36	♣;4-886-934-00	INSULATOR (H)
37	♣;4-886-936-00	CASE (A), SHIELD
38	♣;4-886-937-00	CASE (B), SHIELD
39	4-886-938-00	HOLDER, INDICATION PLATE
40	4-886-939-00	KNOB, SYSTEM
41	♣;4-886-940-00	HOLDER, TUBE, INDICATION
42	4-886-944-00	HOLDER, CONNECTOR
43	4-886-945-00	SHEET, FUNCTION
44	♣;4-886-946-00	PANEL, SUB

GENERAL SECTION

No.	Part No.	Description
45	♣;4-886-949-00	(AEP).....PLATE, JACK
45	♣;4-886-950-00	(G-AEP)...PLATE, JACK
45	♣;4-886-951-00	(UK).....PLATE, JACK
46	♣;4-886-953-01	CHASSIS
47	♣;4-886-974-00	PLATE, SHIELD
48	7-685-104-14	TOTSU PTPWH 2X6 NON-SLIT, TYPE2
49	7-685-646-01	SCREW +BVTP 3X8 TYPE1
50	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
51	7-685-853-01	SCREW +BVTT 2X6 (S)
52	7-685-871-01	SCREW +BVTT 3X6 (S)
53	7-685-872-01	SCREW +BVTT 3X8 (S)
54	7-685-881-01	SCREW +BVTT 4X8 (S)
55	9-911-842-XX	CUSHION, RUBBER
56	9-911-863-XX	INSULATOR (B)
57	X-4886-405-1	FOOT ASSY
58	X-4886-904-0	KNOB (M.P) ASSY, POWER
59	X-4886-906-1	PANEL ASSY
60	4-886-976-00	ESCUTCHEON, POWER KNOB

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-501-161-00	(AEP, UK) ANTENNA, FEEDER
102	1-556-372-21	CORD, CONNECTION (4 CORE)
103	1-556-372-31	CORD, CONNECTION (4 CORE)
104	1-556-783-00	CORD, CONNECTION 9P
105	1-556-793-21	CORD, CONNECTION
106	2-375-002-00	SLIDER
107	2-375-012-00	BAG, POLYETHYLENE
108	3-701-630-00	BAG, POLYETHYLENE
109	3-773-302-11	(AEP, UK) MANUAL, INSTRUCTION
110	3-773-302-41	(AEP, G-AEP) MANUAL, INSTRUCTION
111	4-875-574-00	SHEET PROTECTION
112	4-886-972-00	LABEL (AEP), INDICATOR
113	4-886-991-00	SPACER
114	4-886-997-00	CUSHION
115	4-886-998-00	CUSHION
116	4-886-999-00	CUSHION
117	4-888-201-00	CUSHION
118	4-888-203-00	CARTON
119	A-4372-011-A	COMMANDER ASSY

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (♣-△△△-△△△-XX or ♣-△△△△-△△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μF , PF: μpF .

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA....: μA ..., UPA....: μPA ..., UPC....: μPC ,
 UPD....: μPD ...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	▲ 1-533-131-00	(AEP)...HOLDER, FUSE
502	▲ 1-534-817-XX	(AEP)...CORD, POWER, EURO PLUG
502	▲ 1-556-562-00	(UK)...CORD, POWER
503	▲;1-535-115-00	TERMINAL
504	▲;1-535-116-00	TERMINAL
505	▲;1-535-117-00	TERMINAL
506	▲;1-535-121-00	TERMINAL
507	▲;1-535-135-00	BASE POST 14MM (10MM PITCH)
508	▲;1-535-416-00	TERMINAL
509	▲;1-535-444-00	TERMINAL
510	1-536-705-41	(AEP,UK)...TERMINAL BOARD (SP)
511	1-536-743-00	(G-AEP)...TERMINAL BOARD
512	▲;1-560-060-00	PIN, CONNECTOR 2P
513	▲;1-560-062-00	PIN, CONNECTOR 4P
514	▲;1-560-063-00	PIN, CONNECTOR 5P
515	▲;1-560-065-00	PIN, CONNECTOR 8P
516	▲;1-603-976-00	PC BOARD, N
517	▲;1-609-561-00	PC BOARD, S-1
▲ 518	▲;1-609-562-00	(AEP, G-AEP) ... PC BOARD, FUSE
519	▲;1-609-563-00	PC BOARD, TUNER
520	▲;1-609-565-00	PC BOARD, OUTPUT
▲ 521	▲;1-609-566-00	PC BOARD, POWER SWITCH
522	▲;1-609-567-00	PC BOARD, LAMP
523	1-561-919-00	(G-AEP)...SOCKET CONNECTOR
524	▲;1-609-571-00	PC BOARD, R OUTPUT
525	▲;1-609-572-00	PC BOARD, M SWITCH
526	▲;1-609-573-00	PC BOARD, B
527	▲;1-609-574-00	PC BOARD
528	▲;A-4351-340-A	(AEP, UK) MOUNTED PCB, TUNER
528	▲;A-4351-343-A	(G-AEP) MOUNTED PCB, TUNER
529	▲;A-4409-714-A	MOUNTED PCB, REMOTE CONTROL
530	A-4344-031-A	FRONTEND
B801	1-529-014-00	BUZZER, PIEZOELECTRIC
BA501	1-528-120-00	BATTERY, LITHIUM (CR-2025)
C1	1-123-617-00	ELECT 10MF 20% 16V
C2	1-123-617-00	ELECT 10MF 20% 16V
C3	1-123-617-00	ELECT 10MF 20% 16V
C4	1-161-019-00	CERAMIC 0.033MF 10% 25V
C5	1-108-567-00	MYLAR 0.0033MF 5% 50V
C101	1-101-005-00	CERAMIC 0.022MF 50V
C102	1-123-319-00	ELECT 47MF 20% 16V
C103	1-161-494-00	CERAMIC 0.022MF 30% 25V
C104	1-161-494-00	CERAMIC 0.022MF 30% 25V
C105	1-161-494-00	CERAMIC 0.022MF 30% 25V
C106	1-161-494-00	CERAMIC 0.022MF 30% 25V
C107	1-161-494-00	CERAMIC 0.022MF 30% 25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C108	1-161-494-00	CERAMIC 0.022MF 30% 25V
C109	1-161-494-00	CERAMIC 0.022MF 30% 25V
C110	1-123-356-00	ELECT 10MF 20% 16V
C111	1-161-265-00	(AEP,UK)...CERAMIC 33PF 5% 50V
C111	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C112	1-123-354-00	ELECT 3.3MF 20% 50V
C113	1-161-494-00	CERAMIC 0.022MF 30% 25V
C114	1-123-607-00	ELECT 0.1MF 20% 50V
C115	1-161-494-00	CERAMIC 0.022MF 30% 25V
C117	1-161-494-00	CERAMIC 0.022MF 30% 25V
C118	1-161-494-00	CERAMIC 0.022MF 30% 25V
C119	1-123-320-00	ELECT 100MF 20% 16V
C120	1-161-494-00	CERAMIC 0.022MF 30% 25V
C121	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C201	1-123-323-00	ELECT 470MF 20% 16V
C202	1-123-380-00	ELECT 1MF 20% 50V
C203	1-108-246-00	MYLAR 0.047MF 10% 50V
C204	1-123-353-00	ELECT 2.2MF 20% 50V
C205	1-123-354-00	ELECT 3.3MF 20% 50V
C206	1-104-077-00	POLYSTYRENE 0.001MF 5% 50V
C207	1-123-380-00	ELECT 1MF 20% 50V
C209	1-123-356-00	ELECT 10MF 20% 16V
C211	1-108-239-00	MYLAR 0.01MF 10% 50V
C212	1-104-071-00	POLYSTYRENE 560PF 5% 50V
C213	1-123-354-00	ELECT 3.3MF 20% 50V
C215	1-123-354-00	ELECT 3.3MF 20% 50V
C261	1-108-239-00	MYLAR 0.01MF 10% 50V
C262	1-104-071-00	POLYSTYRENE 560PF 5% 50V
C263	1-123-354-00	ELECT 3.3MF 20% 50V
C265	1-123-354-00	ELECT 3.3MF 20% 50V
C301	1-101-005-00	CERAMIC 0.022MF 50V
C302	1-101-005-00	CERAMIC 0.022MF 50V
C303	1-101-005-00	CERAMIC 0.022MF 50V
C305	1-161-259-00	CERAMIC 10PF 5% 50V
C306	1-103-716-00	POLYSTYRENE 430PF 5% 50V
C307	1-161-494-00	CERAMIC 0.022MF 30% 25V
C308	1-161-494-00	CERAMIC 0.022MF 30% 25V
C309	1-161-494-00	CERAMIC 0.022MF 30% 25V
C310	1-161-494-00	CERAMIC 0.022MF 30% 25V
C311	1-123-332-00	ELECT 47MF 20% 16V
C312	1-161-267-00	CERAMIC 47PF 5% 50V
C313	1-123-380-00	ELECT 1MF 20% 50V
C314	1-161-494-00	CERAMIC 0.022MF 30% 25V
C315	1-123-356-00	ELECT 10MF 20% 16V

NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (▲-△△△-△△△-XX or ▲-△△△△-△△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μ H

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ , for example:
 UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,
 UPD...: μ PD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C316	1-123-354-00	ELECT	3.3MF	20%	50V
C317	1-123-351-00	ELECT	0.47MF	20%	50V
C319	1-161-323-00	CERAMIC	0.001MF	10%	50V
C320	1-161-494-00	CERAMIC	0.022MF	30%	25V
C321	1-161-494-00	CERAMIC	0.022MF	30%	25V
C322	1-108-237-00	MYLAR	0.0068MF	10%	50V
C323	1-123-317-00	ELECT	22MF	20%	16V
C324	1-123-319-00	ELECT	47MF	20%	16V
C325	1-161-259-00	CERAMIC	10PF	5%	50V
C326	1-101-005-00	CERAMIC	0.022MF		50V
C327	1-161-269-00	CERAMIC	68PF	5%	50V
C328	1-103-707-00	POLYSTYRENE	180PF	5%	50V
C329	1-108-352-00	MYLAR	0.0018MF	10%	50V
C330	1-161-041-00	CERAMIC	0.0015MF	20%	50V
C331	1-161-494-00	CERAMIC	0.022MF	30%	25V
C332	1-123-356-00	ELECT	10MF	20%	16V
C333	1-123-356-00	ELECT	10MF	20%	16V
C334	1-123-356-00	ELECT	10MF	20%	16V
C335	1-161-494-00	CERAMIC	0.022MF	30%	25V
C336	1-123-356-00	ELECT	10MF	20%	16V
C401	1-101-005-00	CERAMIC	0.022MF		50V
C403	1-123-607-00	ELECT	0.1MF	20%	50V
C404	1-101-005-00	CERAMIC	0.022MF		50V
C405	1-123-351-00	ELECT	0.47MF	20%	50V
C406	1-161-494-00	CERAMIC	0.022MF	30%	25V
C407	1-123-306-00	ELECT	47MF	20%	10V
C408	1-161-323-00	CERAMIC	0.001MF	10%	50V
C409	1-161-494-00	CERAMIC	0.022MF	30%	25V
C410	1-161-494-00	CERAMIC	0.022MF	30%	25V
C411	1-161-267-00	CERAMIC	47PF	5%	50V
C412	1-102-522-00	CERAMIC	51PF	5%	50V
C413	1-102-522-00	CERAMIC	51PF	5%	50V
C414	1-101-005-00	CERAMIC	0.022MF		50V
C415	1-123-359-00	ELECT	47MF	20%	35V
C416	1-123-607-00	ELECT	0.1MF	20%	50V
C417	1-123-351-00	ELECT	0.47MF	20%	50V
C418	1-123-351-00	ELECT	0.47MF	20%	50V
C419	1-101-005-00	CERAMIC	0.022MF		50V
C420	1-101-005-00	CERAMIC	0.022MF		50V
C501	1-123-356-00	ELECT	10MF	20%	16V
C502	1-123-369-00	ELECT	4.7MF	20%	50V
C503	1-161-494-00	CERAMIC	0.022MF	30%	25V
C504	1-123-380-00	ELECT	1MF	20%	50V
C515	1-123-607-00	ELECT	0.1MF	20%	50V
C601	1-123-380-00	ELECT	1MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C602	1-161-494-00	CERAMIC	0.022MF	30%	25V
C701	1-123-508-00	ELECT	1000MF	20%	35V
C702	1-123-319-00	ELECT	47MF	20%	16V
C703	1-123-323-00	ELECT	470MF	20%	16V
C704	1-123-295-00	ELECT	100MF	20%	6.3V
C705	1-123-295-00	ELECT	100MF	20%	6.3V
C706	1-123-513-00	ELECT	100MF	20%	50V
C707	1-123-359-00	ELECT	47MF	20%	35V
C708	1-123-359-00	ELECT	47MF	20%	35V
C709	1-123-359-00	ELECT	47MF	20%	35V
C710	1-123-513-00	ELECT	100MF	20%	50V
C711	1-123-359-00	ELECT	47MF	20%	35V
C712	1-123-359-00	ELECT	47MF	20%	35V
C801	1-102-110-00	CERAMIC	220PF	10%	50V
C802	1-123-380-00	ELECT	1MF	20%	50V
C803	1-102-110-00	CERAMIC	220PF	10%	50V
C804	1-123-306-00	ELECT	47MF	20%	10V
C806	1-108-237-00	MYLAR	0.0068MF	10%	50V
C807	1-123-474-00	ELECT	100MF	20%	10V
C808	1-123-477-00	ELECT	470MF	20%	10V
C809	1-123-474-00	ELECT	100MF	20%	10V
C810	1-123-477-00	ELECT	470MF	20%	10V
C811	1-123-356-00	ELECT	10MF	20%	16V
C812	1-123-498-00	ELECT	1000MF	20%	25V
C813	1-123-498-00	ELECT	1000MF	20%	25V
C814	1-101-005-00	CERAMIC	0.022MF		50V
C815	1-101-005-00	CERAMIC	0.022MF		50V
C816	1-101-005-00	CERAMIC	0.022MF		50V
C817	1-101-005-00	CERAMIC	0.022MF		50V
C818	1-101-005-00	CERAMIC	0.022MF		50V
C901	1-130-456-00	CAP, FILM	0.022MF		
CF101	1-527-968-00	FILTER, CERAMIC			
CF102	1-527-968-00	FILTER, CERAMIC			
CF103	1-527-968-00	FILTER, CERAMIC			
CF301	1-527-937-00	FILTER, CERAMIC			
CF302	1-527-981-00	FILTER, CERAMIC			
CN902	1-526-694-00	(AEP)...OUTLET, AC			
CN902	1-526-751-00	(UK)...OUTLET, AC			
• CNJ801	1-560-263-00	CONNECTOR PIN 9P			
• CNJ802	1-560-039-00	PIN, CONNECTOR			
• CNJ803	1-560-039-00	PIN, CONNECTOR			
• CNJ804	1-560-039-00	PIN, CONNECTOR			
CP701	1-102-394-00	CERAMIC			250V
CP702	1-102-394-00	CERAMIC			250V
CP703	1-102-394-00	CERAMIC			250V

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- Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ, for example:
 UA.... : μA...., UPA.... : μPA...., UPC.... : μPC,
 UPD.... : μPD....

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CT301	1-141-180-00	CAP, TRIMMER 15P
CT302	1-141-171-00	CAP, TRIMMER 20P
CT303	1-141-171-00	CAP, TRIMMER 20P
CT304	1-141-171-00	CAP, TRIMMER 20P
D101	8-719-815-55	DIODE 1S1555
D102	8-719-815-55	DIODE 1S1555
D301	8-719-912-27	DIODE KV1226
D302	8-719-912-27	DIODE KV1226
D303	8-719-912-27	DIODE KV1226
D401	8-719-300-02	DIODE SV02
D402	8-719-300-02	DIODE SV02
D501	8-719-815-55	DIODE 1S1555
D502	8-719-815-55	DIODE 1S1555
D503	8-719-815-55	DIODE 1S1555
D504	8-719-815-55	DIODE 1S1555
D505	8-719-300-03	DIODE SV03
D506	8-719-815-55	DIODE 1S1555
D507	8-719-815-55	DIODE 1S1555
D508	8-719-815-55	DIODE 1S1555
D509	8-719-815-55	DIODE 1S1555
D510	8-719-815-55	DIODE 1S1555
D511	8-719-815-55	DIODE 1S1555
D514	8-719-815-55	DIODE 1S1555
D515	8-719-815-55	DIODE 1S1555
D516	8-719-815-55	DIODE 1S1555
D517	8-719-815-55	DIODE 1S1555
D601	8-719-800-14	DIODE TLUG163
D602	8-719-800-14	DIODE TLUG163
D603	8-719-800-14	DIODE TLUG163
D701	8-719-511-20	DIODE S1VB20
D702	8-719-910-68	DIODE HZ6C2L
D703	8-719-901-62	DIODE HZ16-2L
D704	8-719-200-02	DIODE 10E2
D705	8-719-200-02	DIODE 10E2
D706	8-719-913-02	DIODE HZ30-2L
D707	8-719-913-02	DIODE HZ30-2L
D708	8-719-931-06	DIODE EQA01-06
D801	8-719-511-20	DIODE S1VB20
D802	8-719-910-96	DIODE HZ9B3L
D803	8-719-910-68	DIODE HZ6B2L
D804	8-719-815-55	DIODE 1S1555
D805	8-719-200-02	DIODE 10E2
D806	8-719-313-20	DIODE SEL1320G

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D807	8-719-815-55	DIODE 1S1555
D808	8-719-815-55	DIODE 1S1555
D809	8-719-902-56	DIODE PC817
D810	8-719-902-56	DIODE PC817
D811	8-719-815-55	DIODE 1S1555
D834	8-719-110-32	DIODE PH302B
D836	8-719-200-02	DIODE 10E2
D904	8-719-311-20	DIODE SEL1120R
D905	8-719-313-20	DIODE SEL1320G
F901	1-532-286-00	(AEP)...FUSE, TIME-LAG
FL501	1-519-264-00	INDICATOR TUBE, FLUORESCENT
IB1	1-232-004-00	COMPOSITION CIRCUIT BLOCK
IC101	8-759-812-35	IC LA1235
IC201	8-759-833-90	IC LA3390
IC301	8-759-812-45	IC LA1245
IC401	8-759-617-78	IC CX778A
IC501	8-759-201-26	IC TC4621BP-6505
IC601	8-759-904-89	IC TL489CP
IC801	8-759-800-50	IC LM6405A-112
IC802	8-759-113-73	IC UPC1373H
IFT101	1-404-327-00	TRANSFORMER, DISCRIMINATOR
IFT102	1-404-328-00	TRANSFORMER, DISCRIMINATOR
IFT301	1-404-413-00	TRANSFORMER, IF
J901	1-507-843-00	JACK, PIN 2P
L1	1-404-310-00	COIL
L301	1-407-177-XX	MICRO INDUCTOR 470UH
L302	1-407-171-XX	MICRO INDUCTOR 150UH
L303	1-407-173-XX	MICRO INDUCTOR 220UH
L401	1-407-157-XX	MICRO INDUCTOR 10UH
L801	1-407-169-XX	MICRO INDUCTOR 100UH
L802	1-407-169-XX	MICRO INDUCTOR 100UH
L803	1-407-169-XX	MICRO INDUCTOR 100UH
L901	1-402-011-00	ANTENNA, FERRITE-ROD (LW/MM)
LPF201	1-235-164-00	FILTER, LOW PASS
LPF251	1-235-164-00	FILTER, LOW PASS
PL901	1-518-466-00	LAMP, PILOT
PL902	1-518-466-00	LAMP, PILOT
PT901	1-447-501-00	TRANSFORMER, POWER
PT902	1-447-504-00	TRANSFORMER, POWER

NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (▲-△△△-△△△-XX or ▲-△△△△-△△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.

MF: μF , PF: μF .

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA....: μA ..., UPA....: μPA ..., UPC....: μPC ,
 UPD....: μPD ...

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
Q101	8-729-671-14	TRANSISTOR	2SC710-14			
Q102	8-729-671-14	TRANSISTOR	2SC710-14			
Q401	8-729-203-04	TRANSISTOR	3SK30A			
Q402	8-729-665-47	TRANSISTOR	2SC1362			
Q404	8-729-665-47	TRANSISTOR	2SC1362			
Q405	8-729-203-04	TRANSISTOR	3SK30A			
Q701	8-729-288-02	TRANSISTOR	2SD880			
Q702	8-729-180-93	TRANSISTOR	2SD809			
Q703	8-729-177-43	TRANSISTOR	2SD774			
Q704	8-729-103-43	TRANSISTOR	2SB734			
Q801	8-729-282-42	TRANSISTOR	2SC2824			
Q802	8-729-200-02	TRANSISTOR	2SC2500			
Q803	8-729-663-47	TRANSISTOR	2SC1364			
Q804	8-729-201-52	TRANSISTOR	2SA1015			
Q805	8-729-663-47	TRANSISTOR	2SC1364			
Q806	8-729-201-52	TRANSISTOR	2SA1015			
Q807	8-729-201-52	TRANSISTOR	2SA1015			
Q808	8-729-201-52	TRANSISTOR	2SA1015			
Q809	8-729-902-11	TRANSISTOR	2SC2021			
R101	1-246-460-00	CARBON	300	5%	1/4W	
R102	1-246-461-00	CARBON	330	5%	1/4W	
R103	1-246-461-00	CARBON	330	5%	1/4W	
R104	1-246-505-00	CARBON	22K	5%	1/4W	
R105	1-246-505-00	CARBON	22K	5%	1/4W	
R106	1-246-477-00	CARBON	1.5K	5%	1/4W	
R107	1-246-461-00	CARBON	330	5%	1/4W	
R108	1-246-461-00	CARBON	330	5%	1/4W	
R109	1-246-505-00	CARBON	22K	5%	1/4W	
R110	1-246-505-00	CARBON	22K	5%	1/4W	
R111	1-246-477-00	CARBON	1.5K	5%	1/4W	
R112	1-246-461-00	CARBON	330	5%	1/4W	
R113	1-246-461-00	CARBON	330	5%	1/4W	
R114	1-246-521-00	CARBON	100K	5%	1/4W	
R115	1-246-485-00	CARBON	3.3K	5%	1/4W	
R117	1-246-515-00	CARBON	56K	5%	1/4W	
R118	1-246-513-00	CARBON	47K	5%	1/4W	
R119	1-247-109-00	CARBON	120	5%	1/4W	F
R120	1-246-501-00	CARBON	15K	5%	1/4W	
R121	1-246-497-00	CARBON	10K	5%	1/4W	
R122	1-246-481-00	CARBON	2.2K	5%	1/4W	
R124	1-246-505-00	CARBON	22K	5%	1/4W	
R125	1-246-505-00	CARBON	22K	5%	1/4W	
R126	1-246-497-00	CARBON	10K	5%	1/4W	
R127	1-247-109-00	CARBON	120	5%	1/4W	F
R201	1-247-109-00	CARBON	120	5%	1/4W	F
R202	1-246-513-00	CARBON	47K	5%	1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R203	1-246-509-00	CARBON	33K	5%	1/4W	
R204	1-246-473-00	CARBON	1K	5%	1/4W	
R205	1-214-755-00	METAL	12K	1%	1/4W	
R206	1-246-505-00	CARBON	22K	5%	1/4W	
R207	1-246-529-00	CARBON	220K	5%	1/4W	
R209	1-246-485-00	CARBON	3.3K	5%	1/4W	
R210	1-246-481-00	CARBON	2.2K	5%	1/4W	
R211	1-246-425-00	CARBON	10	5%	1/4W	
R212	1-246-519-00	CARBON	82K	5%	1/4W	
R213	1-246-473-00	CARBON	1K	5%	1/4W	
R214	1-246-481-00	CARBON	2.2K	5%	1/4W	
R215	1-246-485-00	CARBON	3.3K	5%	1/4W	
R216	1-246-489-00	CARBON	4.7K	5%	1/4W	
R217	1-246-473-00	CARBON	1K	5%	1/4W	
R261	1-246-425-00	CARBON	10	5%	1/4W	
R262	1-246-519-00	CARBON	82K	5%	1/4W	
R263	1-246-473-00	CARBON	1K	5%	1/4W	
R264	1-246-481-00	CARBON	2.2K	5%	1/4W	
R265	1-246-485-00	CARBON	3.3K	5%	1/4W	
R266	1-246-489-00	CARBON	4.7K	5%	1/4W	
R267	1-246-473-00	CARBON	1K	5%	1/4W	
R301	1-244-891-00	CARBON	5.6K	5%	1/2W	
R302	1-246-535-00	CARBON	390K	5%	1/4W	
R303	1-246-521-00	CARBON	100K	5%	1/4W	
R304	1-246-477-00	CARBON	1.5K	5%	1/4W	
R305	1-247-109-00	CARBON	120	5%	1/4W	F
R306	1-246-469-00	CARBON	680	5%	1/4W	
R307	1-246-473-00	CARBON	1K	5%	1/4W	
R308	1-246-491-00	CARBON	5.6K	5%	1/4W	
R309	1-246-497-00	CARBON	10K	5%	1/4W	
R310	1-246-497-00	CARBON	10K	5%	1/4W	
R311	1-246-442-00	CARBON	51	5%	1/4W	
R312	1-246-449-00	CARBON	100	5%	1/4W	
R313	1-246-485-00	CARBON	3.3K	5%	1/4W	
R314	1-247-109-00	CARBON	120	5%	1/4W	F
R315	1-246-497-00	CARBON	10K	5%	1/4W	
R316	1-246-481-00	CARBON	2.2K	5%	1/4W	
R317	1-246-505-00	CARBON	22K	5%	1/4W	
R318	1-246-507-00	CARBON	27K	5%	1/4W	
R319	1-246-529-00	CARBON	220K	5%	1/4W	
R320	1-246-535-00	CARBON	390K	5%	1/4W	
R321	1-246-521-00	CARBON	100K	5%	1/4W	
R322	1-246-505-00	CARBON	22K	5%	1/4W	
R323	1-246-505-00	CARBON	22K	5%	1/4W	
R324	1-246-505-00	CARBON	22K	5%	1/4W	

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μF , PF: μpF .

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA... : μA ..., UPA... : μPA ..., UPC... : μPC ,
 UPD... : μPD ...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R325	1-246-505-00	CARBON	22K	5%	1/4W
R326	1-246-497-00	CARBON	10K	5%	1/4W
R327	1-246-545-00	CARBON	1M	5%	1/4W
R328	1-246-481-00	CARBON	2.2K	5%	1/4W
R401	1-244-945-00	CARBON	1M	5%	1/2W
R402	1-244-929-00	CARBON	220K	5%	1/2W
R403	1-244-897-00	CARBON	10K	5%	1/2W
R404	1-246-467-00	CARBON	560	5%	1/4W
R405	1-246-505-00	CARBON	22K	5%	1/4W
R406	1-246-489-00	CARBON	4.7K	5%	1/4W
R407	1-246-493-00	CARBON	6.8K	5%	1/4W
R408	1-246-493-00	CARBON	6.8K	5%	1/4W
R409	1-246-467-00	CARBON	560	5%	1/4W
R410	1-246-473-00	CARBON	1K	5%	1/4W
R411	1-246-489-00	CARBON	4.7K	5%	1/4W
R412	1-246-505-00	CARBON	22K	5%	1/4W
R413	1-246-505-00	CARBON	22K	5%	1/4W
R414	1-246-505-00	CARBON	22K	5%	1/4W
R415	1-247-893-00	CARBON	390K	5%	1/6W
R416	1-246-491-00	CARBON	5.6K	5%	1/4W
R417	1-246-493-00	CARBON	6.8K	5%	1/4W
R418	1-246-467-00	CARBON	560	5%	1/4W
R419	1-246-515-00	CARBON	56K	5%	1/4W
R420	1-246-473-00	CARBON	1K	5%	1/4W
R421	1-246-481-00	CARBON	2.2K	5%	1/4W
R422	1-246-481-00	CARBON	2.2K	5%	1/4W
R423	1-246-489-00	CARBON	4.7K	5%	1/4W
R501	1-246-489-00	CARBON	4.7K	5%	1/4W
R502	1-246-501-00	CARBON	15K	5%	1/4W
R503	1-246-521-00	CARBON	100K	5%	1/4W
R504	1-246-535-00	CARBON	390K	5%	1/4W
R505	1-246-491-00	CARBON	5.6K	5%	1/4W
R506	1-246-521-00	CARBON	100K	5%	1/4W
R507	1-246-497-00	CARBON	10K	5%	1/4W
R508	1-246-505-00	CARBON	22K	5%	1/4W
R509	1-246-505-00	CARBON	22K	5%	1/4W
R510	1-246-497-00	CARBON	10K	5%	1/4W
R511	1-246-509-00	CARBON	33K	5%	1/4W
R512	1-246-515-00	CARBON	56K	5%	1/4W
R513	1-246-501-00	CARBON	15K	5%	1/4W
R514	1-246-497-00	CARBON	10K	5%	1/4W
R515	1-246-521-00	CARBON	100K	5%	1/4W
R516	1-246-505-00	CARBON	22K	5%	1/4W
R517	1-246-521-00	CARBON	100K	5%	1/4W
R518	1-246-497-00	CARBON	10K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R519	1-246-497-00	CARBON	10K	5%	1/4W
R520	1-246-497-00	CARBON	10K	5%	1/4W
R521	1-246-497-00	CARBON	10K	5%	1/4W
R522	1-246-497-00	CARBON	10K	5%	1/4W
R523	1-246-497-00	CARBON	10K	5%	1/4W
R524	1-246-497-00	CARBON	10K	5%	1/4W
R525	1-246-489-00	CARBON	4.7K	5%	1/4W
R602	1-246-521-00	CARBON	100K	5%	1/4W
R603	1-246-473-00	CARBON	1K	5%	1/4W
R604	1-246-473-00	CARBON	1K	5%	1/4W
R605	1-246-473-00	CARBON	1K	5%	1/4W
R701	1-212-856-00	FUSIBLE	9.1	5%	1/4W F
R702	1-246-493-00	CARBON	6.8K	5%	1/4W
R703	1-247-224-00	CARBON	220	5%	1/2W F
R704	1-246-489-00	CARBON	4.7K	5%	1/4W
R705	1-247-097-00	CARBON	39	5%	1/4W F
R706	1-247-137-00	CARBON	1.8K	5%	1/4W F
R707	1-246-479-00	CARBON	1.8K	5%	1/4W
R708	1-247-097-00	CARBON	39	5%	1/4W F
R709	1-246-485-00	CARBON	3.3K	5%	1/4W
R801	1-247-855-00	CARBON	10K	5%	1/6W
R802	1-247-839-00	CARBON	2.2K	5%	1/6W
R803	1-247-867-00	CARBON	33K	5%	1/6W
R804	1-246-521-00	CARBON	100K	5%	1/4W
R805	1-247-839-00	CARBON	2.2K	5%	1/6W
R806	1-247-839-00	CARBON	2.2K	5%	1/6W
R807	1-247-839-00	CARBON	2.2K	5%	1/6W
R808	1-247-839-00	CARBON	2.2K	5%	1/6W
R809	1-247-839-00	CARBON	2.2K	5%	1/6W
R810	1-247-839-00	CARBON	2.2K	5%	1/6W
R811	1-247-839-00	CARBON	2.2K	5%	1/6W
R812	1-247-839-00	CARBON	2.2K	5%	1/6W
R813	1-247-827-00	CARBON	680	5%	1/6W
R814	1-247-831-00	CARBON	1K	5%	1/6W
R815	1-247-855-00	CARBON	10K	5%	1/6W
R816	1-247-817-00	CARBON	270	5%	1/6W
R817	1-246-497-00	CARBON	10K	5%	1/4W
R818	1-246-477-00	CARBON	1.5K	5%	1/4W
R819	1-246-497-00	CARBON	10K	5%	1/4W
R820	1-246-481-00	CARBON	2.2K	5%	1/4W
R821	1-246-481-00	CARBON	2.2K	5%	1/4W
R822	1-246-497-00	CARBON	10K	5%	1/4W
R823	1-247-855-00	CARBON	10K	5%	1/6W
R824	1-246-497-00	CARBON	10K	5%	1/4W
R825	1-246-481-00	CARBON	2.2K	5%	1/4W

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μF, PF: μF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F: nonflammable

COILS

- MMH: mH, UH: μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U: μ, for example:
 UA...: μA..., UPA...: μPA..., UPC...: μPC,
 UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R826	1-246-481-00	CARBON 2.2K 5% 1/4W
R827	1-246-481-00	CARBON 2.2K 5% 1/4W
R828	1-247-871-00	CARBON 47K 5% 1/6W
R829	1-247-855-00	CARBON 10K 5% 1/6W
R830	1-247-871-00	CARBON 47K 5% 1/6W
R833	1-246-473-00	CARBON 1K 5% 1/4W
R834	1-246-497-00	CARBON 10K 5% 1/4W
R835	1-247-873-00	CARBON 56K 5% 1/6W
R836	1-247-879-00	CARBON 100K 5% 1/6W
R837	1-247-863-00	CARBON 22K 5% 1/6W
R838	1-247-879-00	CARBON 100K 5% 1/6W
R839 A	1-247-095-00	CARBON 33 5% 1/4W F
R840 A	1-247-139-00	CARBON 2.2K 5% 1/4W F
R841	1-246-471-00	CARBON 820 5% 1/4W
R842	1-247-848-00	CARBON 5.1K 5% 1/6W
R843	1-247-853-00	CARBON 8.2K 5% 1/6W
R844	1-247-807-00	CARBON 100 5% 1/6W
R845	1-247-831-00	CARBON 1K 5% 1/6W
R846	1-246-466-00	CARBON 510 5% 1/4W
R847 A	1-206-477-00	METAL 39 5% 2W F
R848	1-247-879-00	CARBON 100K 5% 1/6W
R849	1-246-497-00	CARBON 10K 5% 1/4W
R850	1-246-529-00	CARBON 220K 5% 1/4W
R851	1-246-473-00	CARBON 1K 5% 1/4W
R902	1-246-445-00	CARBON 68 5% 1/4W
R903	1-246-445-00	CARBON 68 5% 1/4W
R904	1-246-445-00	CARBON 68 5% 1/4W
R905	1-246-445-00	CARBON 68 5% 1/4W
RT101	1-226-237-00	RES, ADJ, CARBON 20K
RT102	1-226-238-00	RES, ADJ, CARBON 50K
RT201	1-228-505-00	RES, ADJ, METAL GLAZE 10K
RT202	1-226-237-00	RES, ADJ, CARBON 20K
RY901A	1-515-421-00	(AEP)...RELAY
RY901A	1-515-479-00	(UK)...RELAY

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S501	1-554-303-00	SWITCH, KEY BOARD
S502	1-554-303-00	SWITCH, KEY BOARD
S503	1-554-303-00	SWITCH, KEY BOARD
S504	1-554-303-00	SWITCH, KEY BOARD
S505	1-554-303-00	SWITCH, KEY BOARD
S506	1-554-303-00	SWITCH, KEY BOARD
S507	1-554-303-00	SWITCH, KEY BOARD
S508	1-554-303-00	SWITCH, KEY BOARD
S509	1-554-303-00	SWITCH, KEY BOARD
S510	1-554-303-00	SWITCH, KEY BOARD
S511	1-554-303-00	SWITCH, KEY BOARD
S512	1-554-303-00	SWITCH, KEY BOARD
S513	1-554-303-00	SWITCH, KEY BOARD
S514	1-554-303-00	SWITCH, KEY BOARD
S801	1-554-303-00	SWITCH, KEY BOARD
S802	1-554-391-00	SWITCH, SLIDE
S901 A	1-553-318-00	(AEP, G-AEP) SWITCH, PUSH (AC POWER)
S901 A	1-553-447-00	(UK) SWITCH, PUSH (POWER)
T101	1-235-046-00	(AEP, UK)...ENCAPSULATED COMPONENT (B.E.F)
T101	1-235-126-00	(G-AEP)...ENCAPSULATED COMPONENT (B.E.F)
T301	1-405-927-00	COIL, MW OSC
T302	1-405-914-00	COIL, LW OSC
X401	1-527-731-00	OSCILLATOR, CRYSTAL
X801	1-527-532-00	OSCILLATOR, CERAMIC

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CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: μF , PF: μF .

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

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UA...: μA ..., UPA...: μPA ..., UPC...: μPC ,
UPD...: μPD ...