



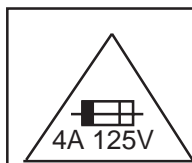
## IMPORTANT SERVICE SAFETY PRECAUTION

- **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

### WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.

To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



**CAUTION:** FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 4A-125V FUSE.

### SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

**When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)**

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

### X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.

It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.

2. It is essential that servicemen have available at all times an accurate high voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a colour chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver. Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

# IMPORTANT SERVICE SAFETY PRECAUTION

## (Continued)

### BEFORE RETURNING THE RECEIVER

#### (Fire & Shock Hazard)

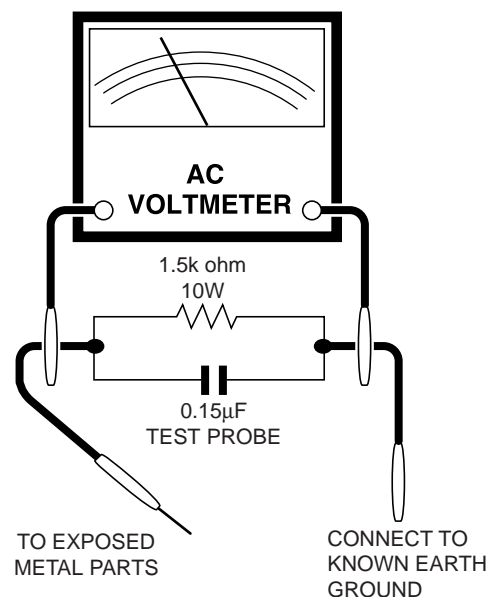
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
  - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC ine cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



### SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

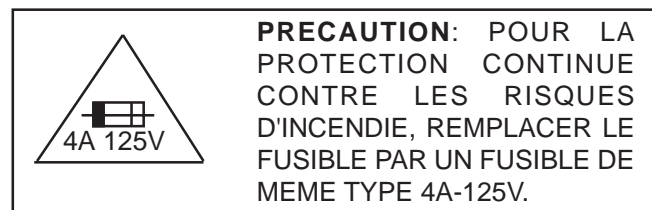
For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

# PRECAUTIONS A PRENDRE LORS DE LA REPARATION

- **Ne peut effectuer la réparation qu' un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.**

## AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit. C'est dangereux.
2. Débrancher le récepteur avant toute réparation.
3. Les déversoirs thermiques à semi-conducteurs peuvent présenter un danger de choc électrique lorsque le récepteur est en marche.
4. Le châssis de ce récepteur possède deux systèmes de masse qui sont séparées par du matériel d'isolation. Le système de masse non-isolée (sous tension) est pour le circuit du régulateur de tension B+ et le circuit de sortie horizontale. Le système de masse isolée est pour les tensions DC B+ basses et le circuit secondaire du transformateur haute tension. Pour éviter tout risque d'électrocution lors de l'entretien de ce châssis, utiliser un transformateur d'isolation entre le cordon de ligne et la prise de courant.



## REPARATION DU SYSTEME A HAUTE TENSION ET DU TUBE-IMAGE

**Lors de la réparation de ce système, supprimer la charge statique en branchant une résistance de 10 kΩ en série avec un fil isolé (comme une sonde d'essai) entre la mise à la terre du tube-image et le fil d'anode. (Le cordon d'alimentation doit être retiré de la prise murale.)**

1. Le tube image dans ce récepteur emploie une protection intégrée contre l'implosion.
2. Par mesure de sécurité, changer le tube-image pour un tube du même numéro de type.
3. Ne pas lever le tube-image par son col.
4. Ne manipuler le tube-image qu'en portant des lunettes incassables et qu'après avoir déchargé totalement la haute tension.

## LIMITES DES RADIATIONS X ET DE LA HAUTE TENSION

1. Tout le personnel réparateur doit être instruit des instructions et procédés relatifs aux radiations X. Le tube-image, seule source de rayons X dans les téléviseurs transistorisés, n'émet pourtant pas de rayons mesurables si la haute tension est maintenue à un niveau préconisé dans la section "Vérification de la haute tension". C'est seulement quand la haute tension est excessive que les rayons X peuvent entrer dans l'enveloppe du tube-image y compris le conducteur de verre. Il est important de maintenir la haute tension en-dessous du niveau spécifié.
2. Il est essentiel que le réparateur ait sous la main un voltmètre à haute tension qui doit être périodiquement étalonné.
3. La haute tension doit toujours être maintenue à la valeur de régime -et pas plus haute. L'opération à des tensions plus élevées peut entraîner une panne du tube-image ou du circuit à haute tension et, dans certaines conditions, peut entraîner une radiation dépassant les niveaux prescrits.
4. Quand le régulateur à haute tension fonctionne correctement, il n'y a aucun problème de radiation X. Chaque fois qu'un châssis couleurs est réparé, la luminosité doit être examinée tout en contrôlant la haute tension à l'aide d'un voltmètre pour s'assurer que la haute tension ne dépasse pas la valeur spécifiée et qu'elle soit correctement réglée.
5. Ne pas utiliser un tube-image autre que celui spécifié et ne pas effectuer de modifications déconseillées du circuit à haute tension.
6. Lors de la recherche des pannes et des mesures d'essai sur un récepteur qui présente une haute tension excessive, éviter de s'approcher inutilement du récepteur.  
Ne pas faire fonctionner le récepteur plus longtemps que nécessaire pour localiser la cause de la tension excessive.

# PRECAUTIONS A PRENDRE LORS DE LA REPARATION

(Suite)

## VERIFICATIONS CONTRE L'INCEN-DIE ET LE CHOC ELECTRIQUE

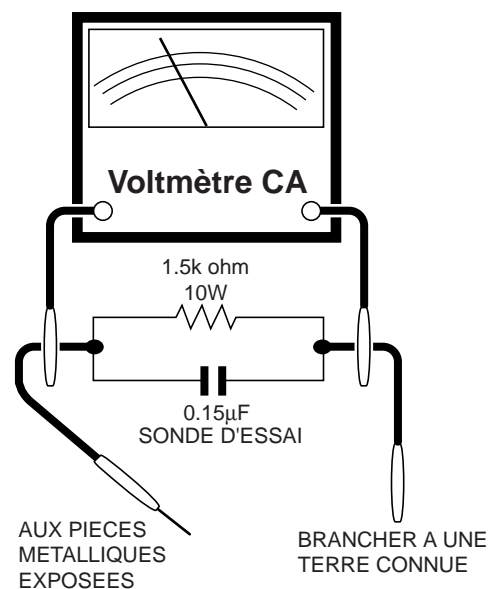
**Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.**

1. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
2. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistance-capacité, les isolateurs mécaniques, etc.
3. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la façon suivante:
  - Brancher le cordon d'alimentation directement à une prise de courant de 120V. (Ne pas utiliser de transformateur d'isolation pour cet essai).
  - A l'aide de deux fils à pinces, brancher une résistance de 1.5 k $\Omega$  10 watts en parallèle avec un condensateur de 0.15 $\mu$ F en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.
  - Utiliser un voltmètre CA d'une sensibilité d'au moins 5000 $\Omega$ /V pour mesurer la chute de tension en travers de la résistance.

- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écusson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adaptation non polarisée peut être utilisée dans le but de terminer ces vérifications.)

Tous les courants mesurés ne doivent pas dépasser 0.5 mA.

Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.



## AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseurs présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.

Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont

identifiées par la marque " ⚠ " et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.

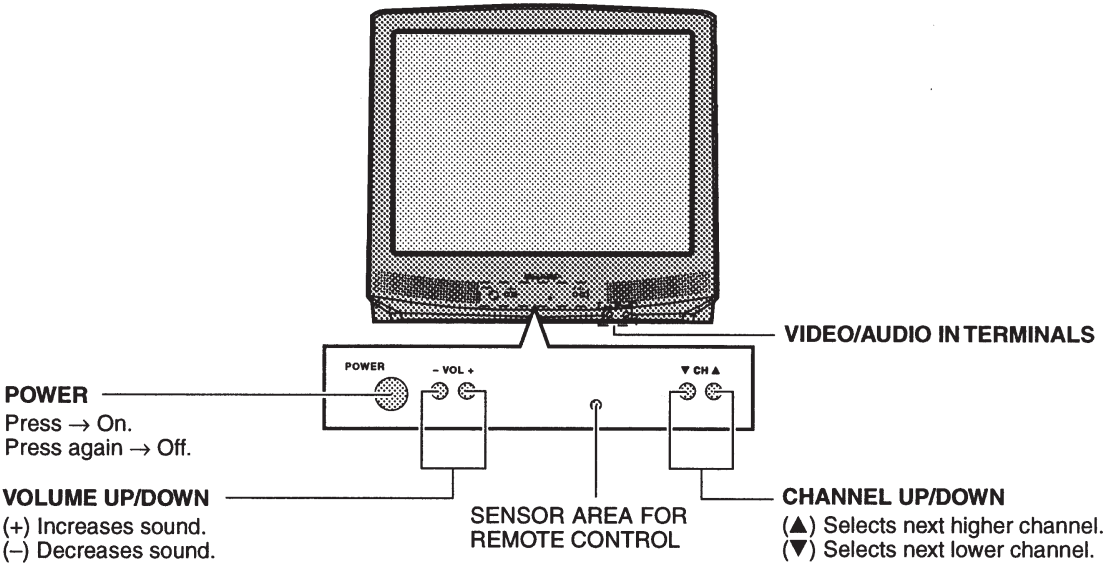
Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.



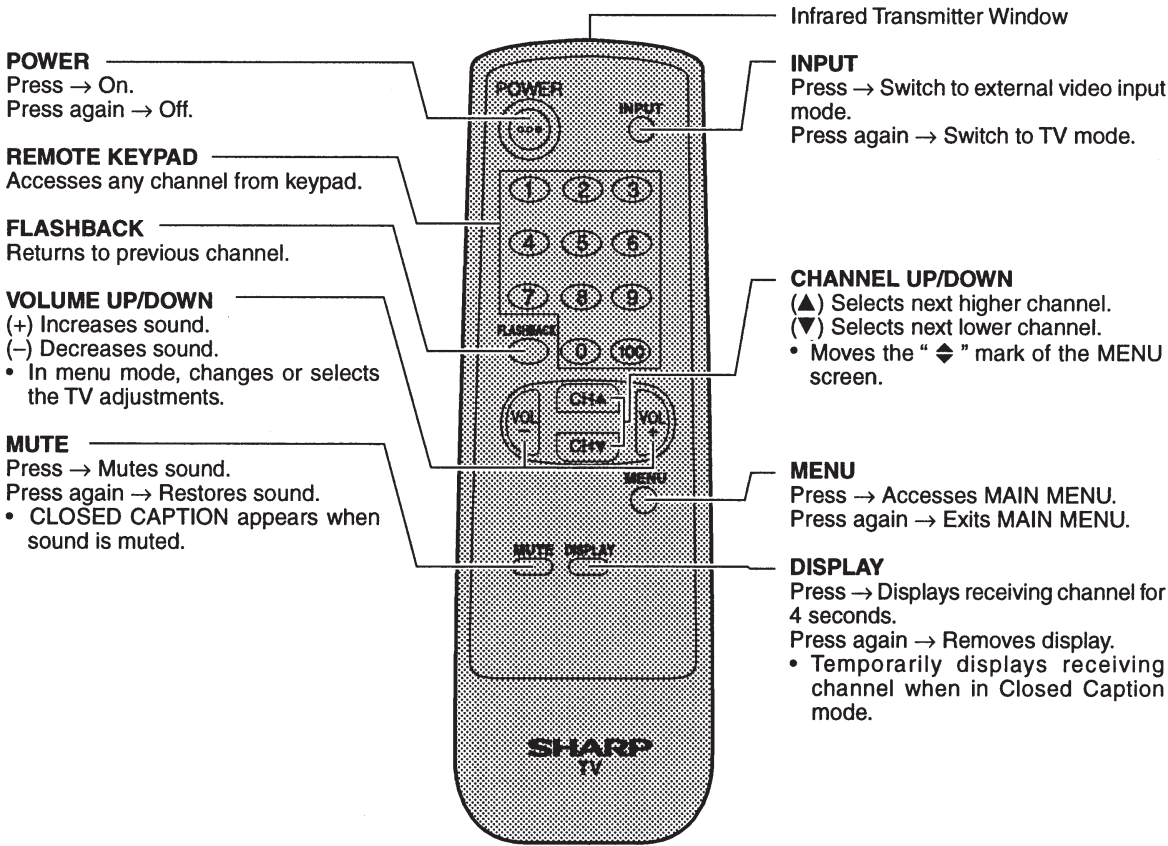
# LOCATION OF USER'S CONTROL

(25K-M100, CK25M10)

## Front Panel



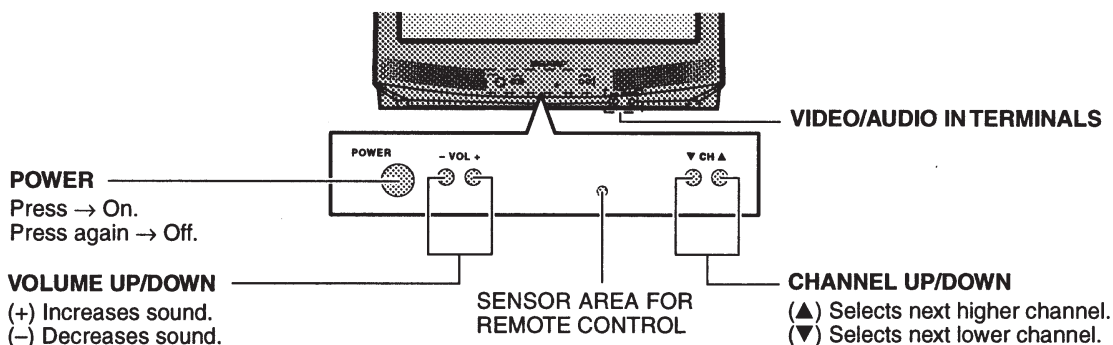
## Basic Remote Control Functions



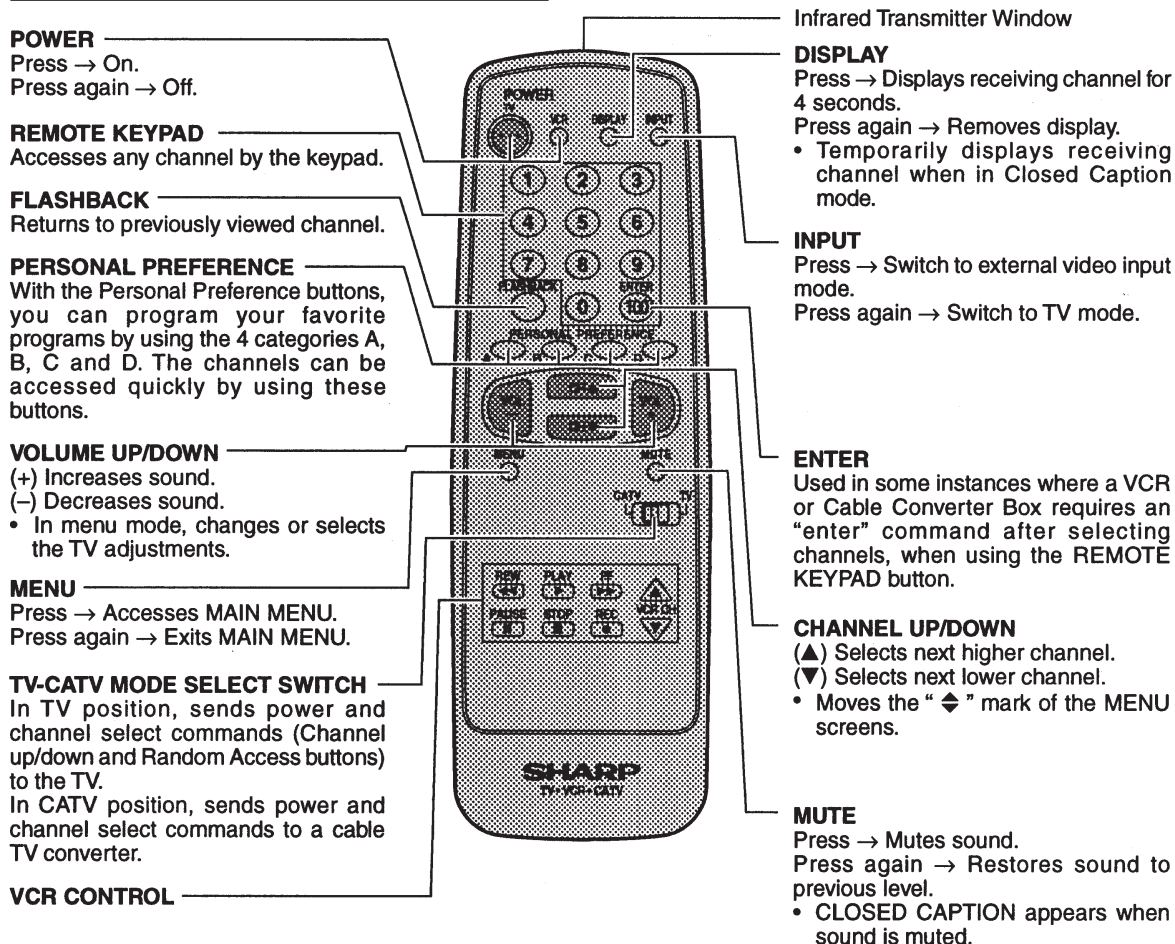
# LOCATION OF USER'S CONTROL(Continued)

## (25K-M180)

### Front Panel



### Basic Remote Control Functions



### Note:

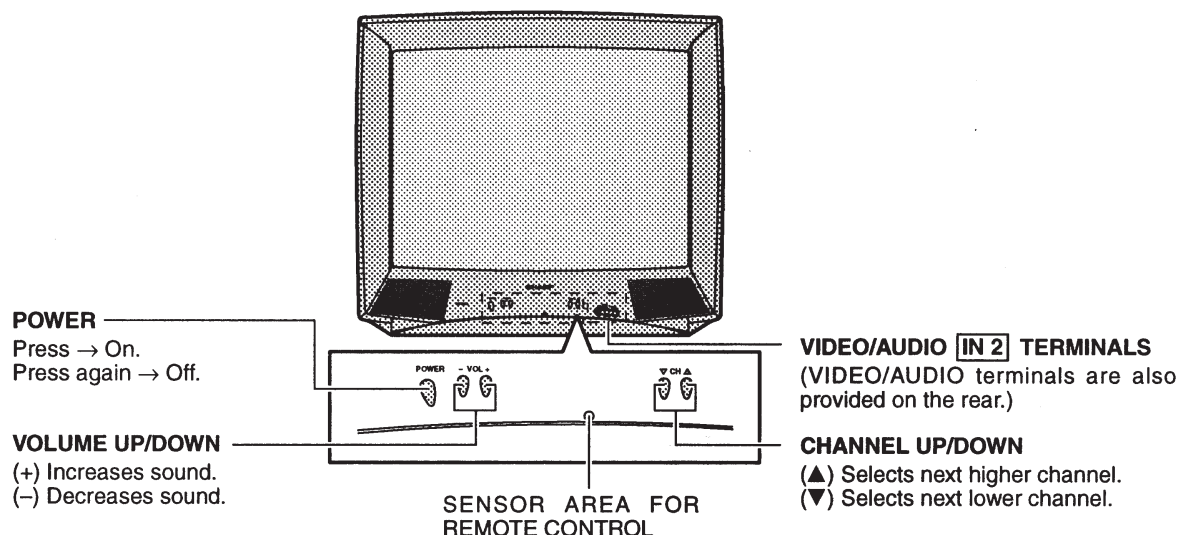
These buttons in mark (luminous buttons) as shown above glow. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.

The phosphorescent material contains no radioactive or toxic material, so it is safe to use.

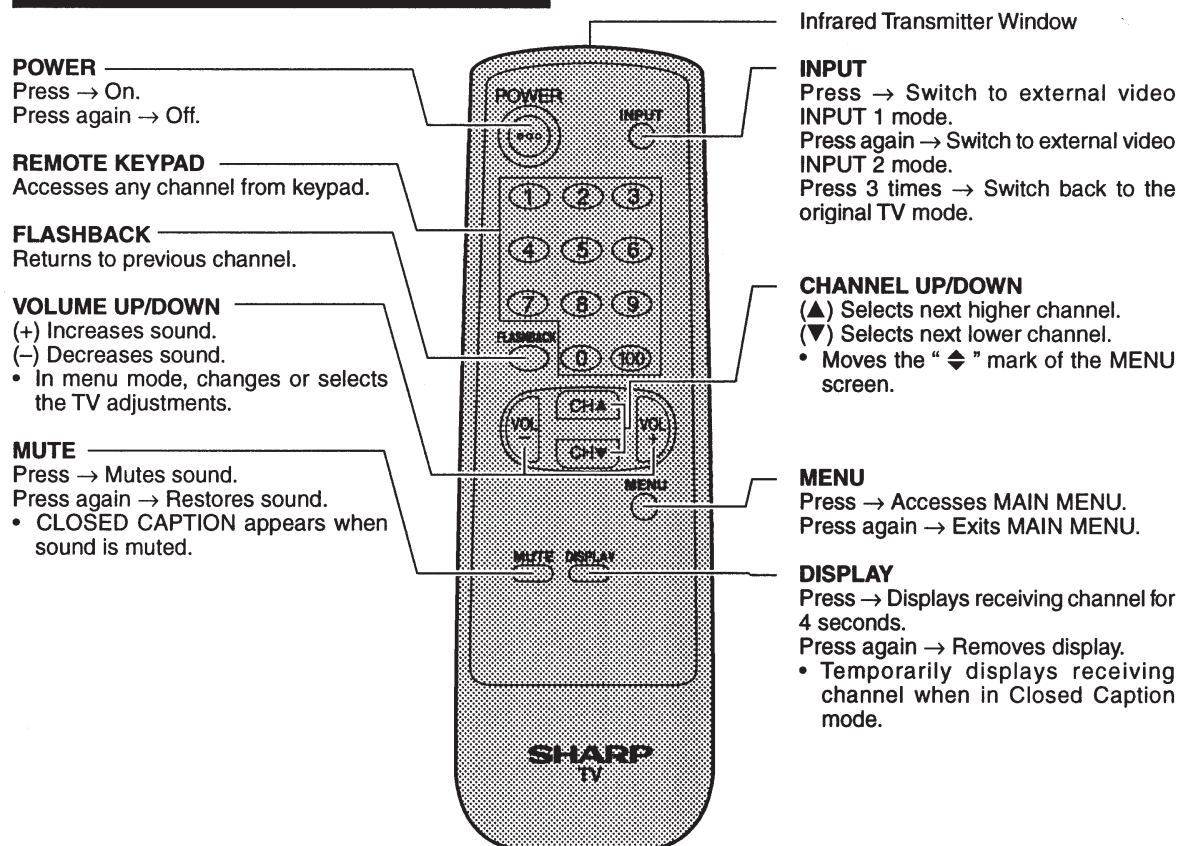
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

## LOCATION OF USER'S CONTROL(Continued) (25K-S100)

### Front Panel



### Basic Remote Control Functions

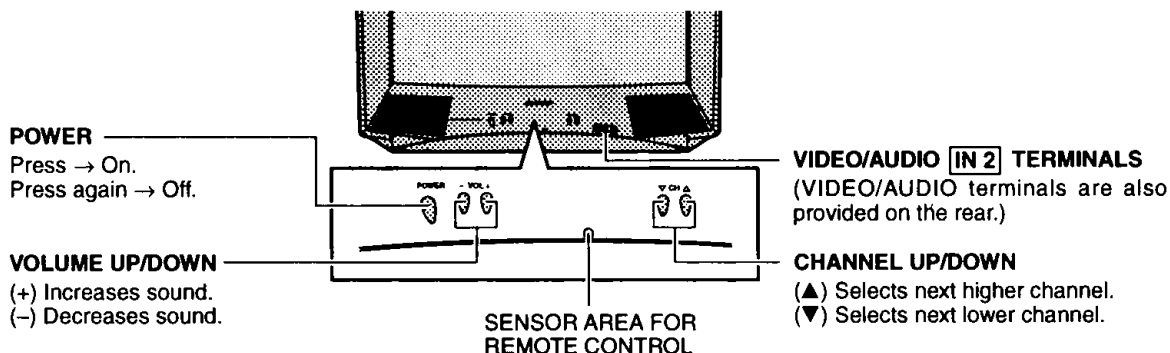




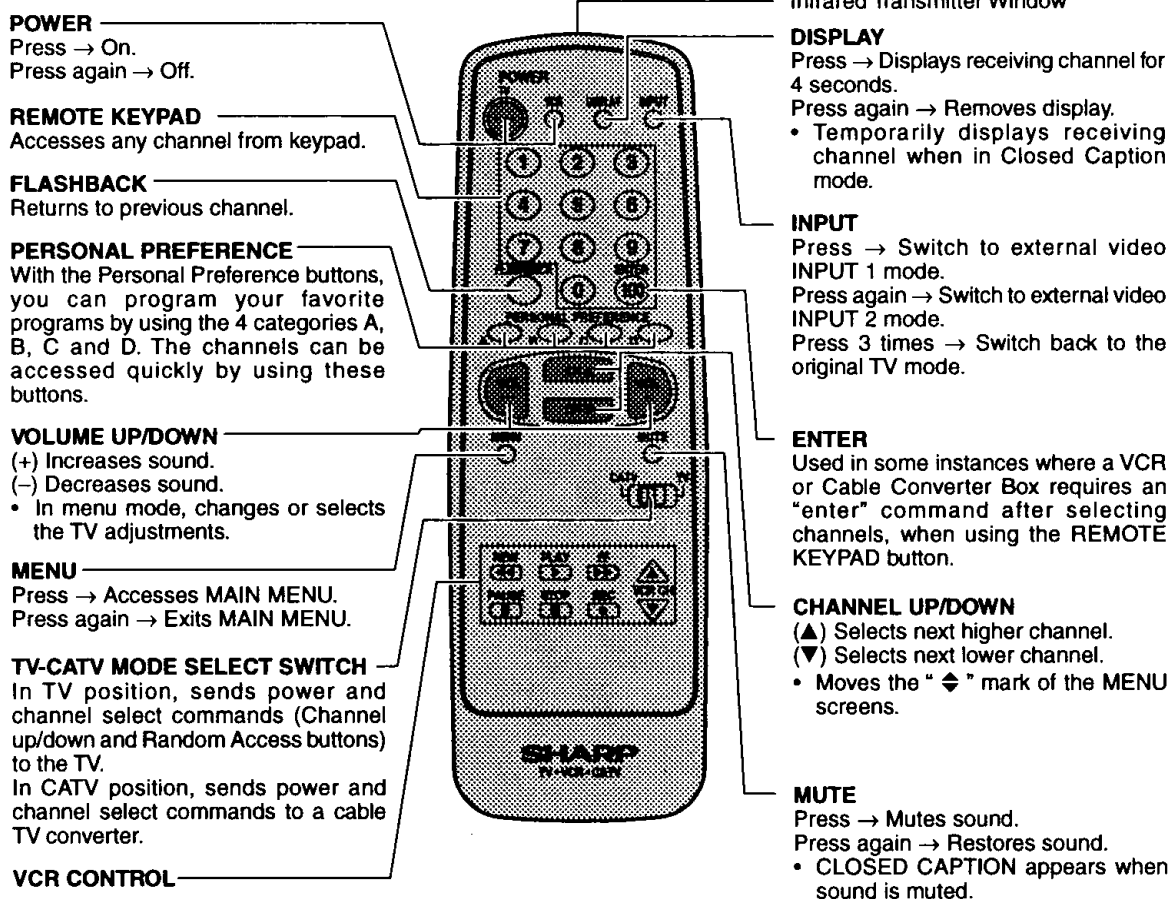
## LOCATION OF USER'S CONTROL(Continued)

### (25K-S180, CK25S18)

#### Front Panel



#### Basic Remote Control Functions



#### Note:

- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

# INSTALLATION AND SERVICE INSTRUCTIONS

- Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.  
(2) Before performing adjustments, the TV set must be on at least 15 minutes.

## CIRCUIT PROTECTION

The receiver is protected by a 4.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

## X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

- 1) Apply 120V AC using a variac transformer for accurate input voltage.
- 2) Allow for warm up and adjust all customer controls for normal picture and sound.
- 3) Receive a good local channel.
- 4) Connect a digital voltmeter to TP653 and make sure that the voltmeter reads  $11.4V \pm 0.7V$ .
- 5) Apply external 13.8V DC at TP653 by using an external DC supply, TV must be shut off.
- 6) To reset the protector, unplug the AC cord and make a short circuit between TP651 and TP652. Now make sure that normal picture appears on the screen.
- 7) If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

## HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "S19" and Bus data "01" (Y-mute on).
4. The voltage should be approximately, 28.1kV (at zero beam).

If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

**Note:** There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

### 1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

### 2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "S01" to "M05"(25K-S100/180, CK25S18), "S01" to "OP" (25K-M180), "S01" to "S19" (25K-M100, CK25M10). Select the item you wish to adjust.

### 3. Data number selection

Press the Vol-up or down button to adjust the data number.

### To enter the service mode and exit service mode.

While pressing the Vol-up and Ch-up buttons at the sametime, plug the AC cord into a wall socket.

Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

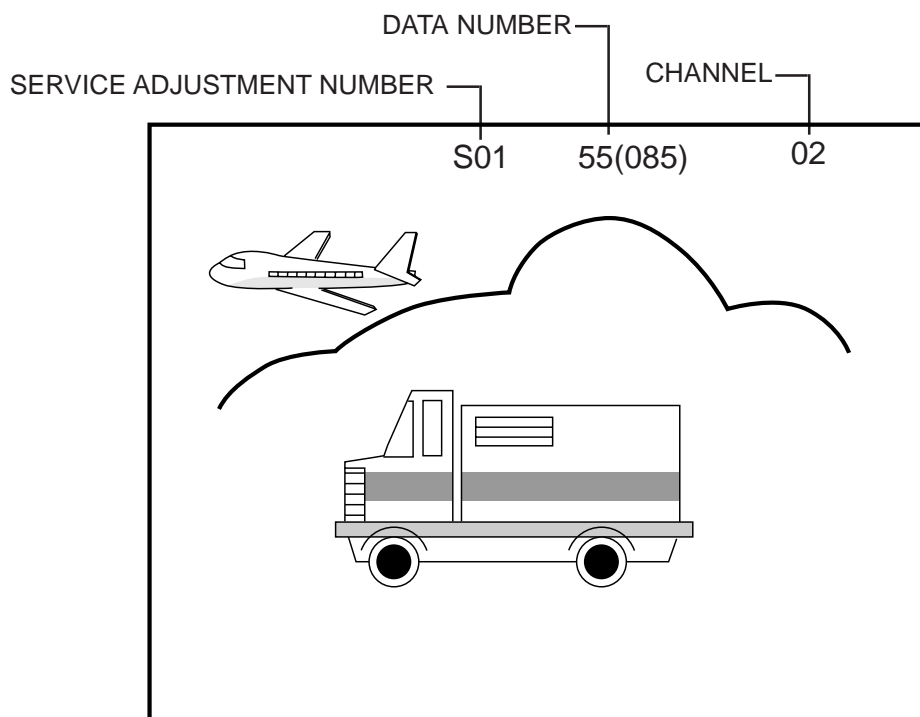


Figure A.

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
S01	PICTURE	55	00-7F	Must be set to "28" Must be set to "00"
S02	TINT	46	00-7F	
S03	COLOR	32	00-7F	
S04	BRIGHTNESS	40	00-7F	
S05	SHARPNESS	24	00-3F	
S06	VERTICAL PHASE	00	00-07	
S07	HORIZONTAL PHASE	12	00-1F	
S08	RF-AGC	23	00-3F	
S09	VERTICAL AMP	20	00-3F	
S10	VCO	2C	00-7F	
S11	R CUT-OFF	00	00-FF	
S12	G CUT -OFF	00	00-FF	
S13	B CUT-OFF	00	00-FF	
S14	G GAIN	7F	00-FF	
S15	B GAIN	7F	00-FF	
S16	TRAP(3.58MHz)	00	00 or 01	
S17	BALANCE	20	00-3F	
S18	C.C.POSITION	17	00-7F	
S19	Y-MUTE	00	00,01,03	
OP	OPTION (Set to each mode)	80	00-FF	
M01	MTS LEVEL	0A	00-0F	00= NORMAL, 01= No Y, 03= No VERTICAL "40"=25K-M180, "30"=25K-S100 "70"=25K-S180, CK25S18  Only for Models 25K-S100/180, CK25S18
M02	STEREO-VCO	20	00-3F	
M03	FILTER	1C	00-3F	
M04	LOW SEPARATION	20	00-3F	
M05	HIGH SEPARATION	1B	00-3F	

**Table - A**

Holding down both the CH-up/down buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2101.
IC201	X		The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).
IC2101	X		Holding down both the CH-up/down buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101. Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.
IC3001	X		Adjust items related to MTS only (M01~M05).

**Table - B**



## ■ SERVICE ADJUSTMENT

### VCO Adjustment

1. Connect a digital voltmeter between pin (44) of IC201 and ground.
2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "S10".
4. Adjust the data so that digital voltmeter reads 2.2V.
5. Adjustment is completed, remove the voltmeter, return to "normal" mode.

### RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S08".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

**Note 1 :** You will have to come out of the service mode to select another channel.

**Note 2 :** Setting the data to "00" will produce a black raster.

### Screen Adjustment

1. Connect a digital voltmeter between TP852 and TP853 on the CRT Unit.

**Note:** These test points may not be provided.

Then connect the voltmeter to both ends of R852 located near Q851 on the foil side.

2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "S03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "S03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
4. Select the service adjustment "S19" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
5. Select the service adjustment "S04" and adjust data value to obtain 0.26 volts on the digital voltmeter.
6. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
7. Adjust service adjustments "S11" red, "S12" green and "S13" blue to obtain a good grey scale with normal whites at low brightness level.
8. Select the service adjustment "S19" and reset data to "00". Select the service adjustment "S03" and reset data to obtain normal color level.
9. Remove digital voltmeter, and reset the master screen control to obtain normal brightness range.

### White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S03" and set to "00" (minimum color)(Record original data code under adjustment "S03" before changing). "S03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust service adjustment data of "S14" and "S15" until a good grey scale with normal whites is obtained.
4. Select the service adjustment "S03" and adjust data to obtain normal color level.

### Sub-Picture Adjustment

1. Receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select the service adjustment "S01".
4. Adjust the data value to achieve normal contrast range.

### Sub-Tint Adjustment

1. Receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select the service adjustment "S02".
4. Adjust "S02" data value to obtain normal flesh tones.

### Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
3. Enter the service mode and select service adjustment "S03".
4. Adjust "S03" data value to obtain normal color level.

## Sub-Brightness Adjustment

1. Receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select the service adjustment "S04".
4. Adjust "S04" data value to obtain normal brightness level.

## Vertical-Size and Linearity Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S09".
3. While observing the top and bottom of the screen, adjust "S09" data value to proper vertical size.

## Vertical Phase Adjustment

1. Enter the service mode and select the service adjustment "S06".
2. Adjust data value to "00".

**Note:** This must be set "00" when changed data retrace line will appear.

## Horizontal Position Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S07".
3. Adjust "S07" data value so that picture is centered.

## Caption Position Adjustment (Horizontal)

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S18".
3. A black text box appears on the screen. (see **Figure B** below)
4. Adjust "S18" data value so that text box is positioned in the center of the screen.

## 3.58MHz Trap Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S16".
3. This is a two position adjustment, "00" is ON, "01" is OFF.
4. Adjust data value to "00" for normal viewing.

## Sharpness and Audio Balance Adjustments

1. Receive a good local channel.
  2. Enter the service mode and select the service adjustments "S05" for sharpness and "S17" for balance.
- **Sharpness adjustment**
  - 3. Adjust data value to "28"(center of data range) for sharpness adjustment.
  - **Audio balance adjustment**
  - 4. Adjust data value to "20"(center of data range) for Audio balance adjustment.

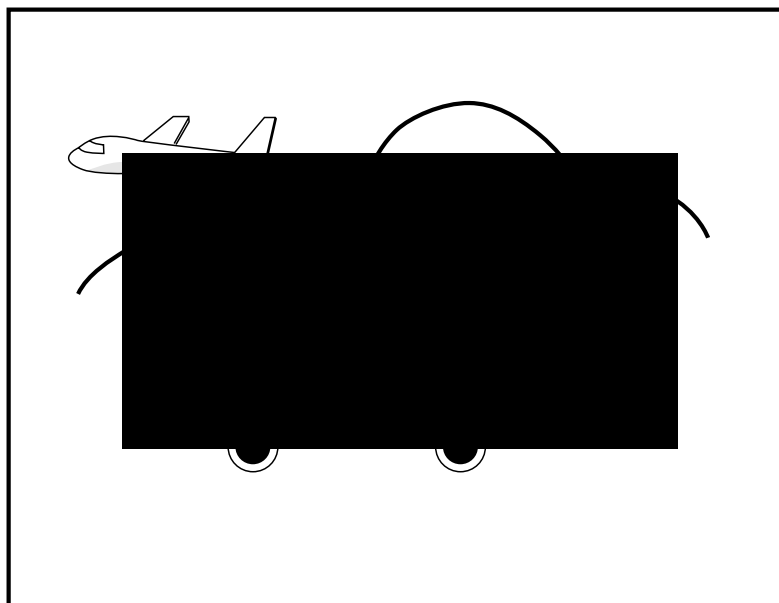


Figure B.

## ■ MTS ADJUSTMENT

(Only for 25K-S100/180, CK25S18)

### MTS Level Adjustment

1. Feed the following monaural signal to pin (14) of IC3001.  
Monaural signal : 300Hz, 245mVrms
2. Connect the rms voltmeter to pin (39) of IC3001.
3. Enter the service mode and select the service adjustment "M01".
4. Adjust the data so that the rms voltmeter reads.  
 $490 \pm 10\text{mVrms}$ .

### MTS VCO Adjustment

1. Keep the unit in no-signal state.
2. Connect the frequency counter to pin (39) of IC3001.
3. Connect a capacitor (100 $\mu$ F, 50V) in between positive(+) side of C3005 and ground.
4. Enter the service mode and select the service adjustment "M02"
5. Adjust the data so that the frequency counter reads.  
 $62.94 \pm 0.75\text{kHz}$ .

### Filter Adjustment

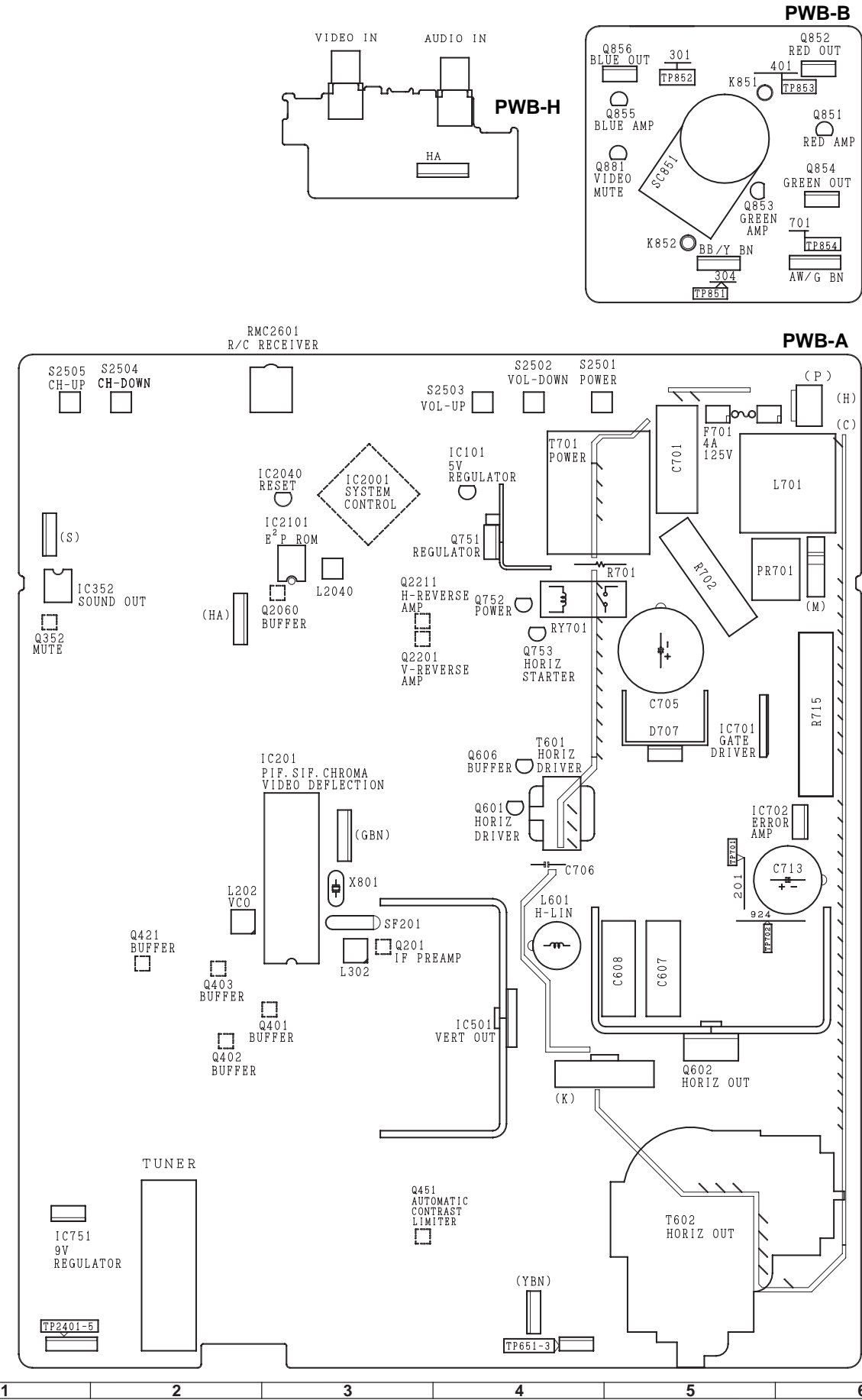
1. Feed the following stereo pilot signal to pin (14) of IC3001 .  
Stereo pilot signal: 9.4kHz, 600mVrms.
2. Enter the service mode and select the service adjustment "M03".
3. Adjust the data at the point where "OK" appears on the screen. The "OK" represents the approximate center of the adjustable range of the data.

### Separation Adjustment

1. Connect the rms voltmeter to pin (39) of IC3001.
2. Receive the following composite stereo signal 1.  
Composite stereo signal: 30% modulation, left channel only, noise reduction on, 300Hz
3. Enter the service mode and select the service adjustment "M04".
4. Adjust the data until the AC voltage reading of the rms voltmeter is minimum.
5. Receive the following composite stereo signal 2.  
Stereo signal: 30% modulation, left channel only, noise reduction on, 3kHz
6. Enter the service mode and select the service adjustment "M05".
7. Adjust the data until the AC voltage reading of the rms voltmeter is minimum.
8. Take the above steps 1 thru 8 again for fine adjustment.

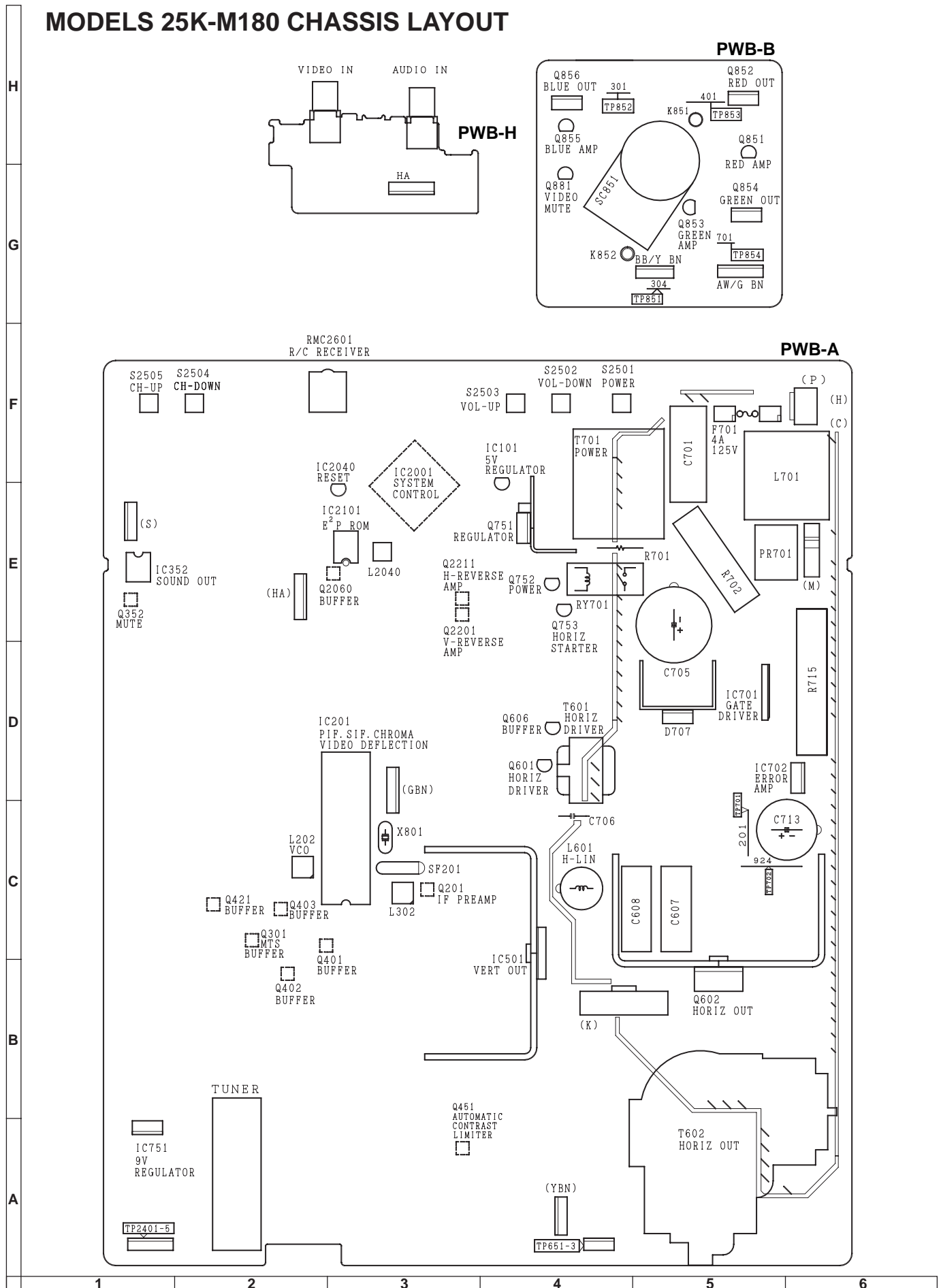
MODELS 25K-M100, CK25M10 CHASSIS LAYOUT

H  
G  
F  
E  
D  
C  
B  
A

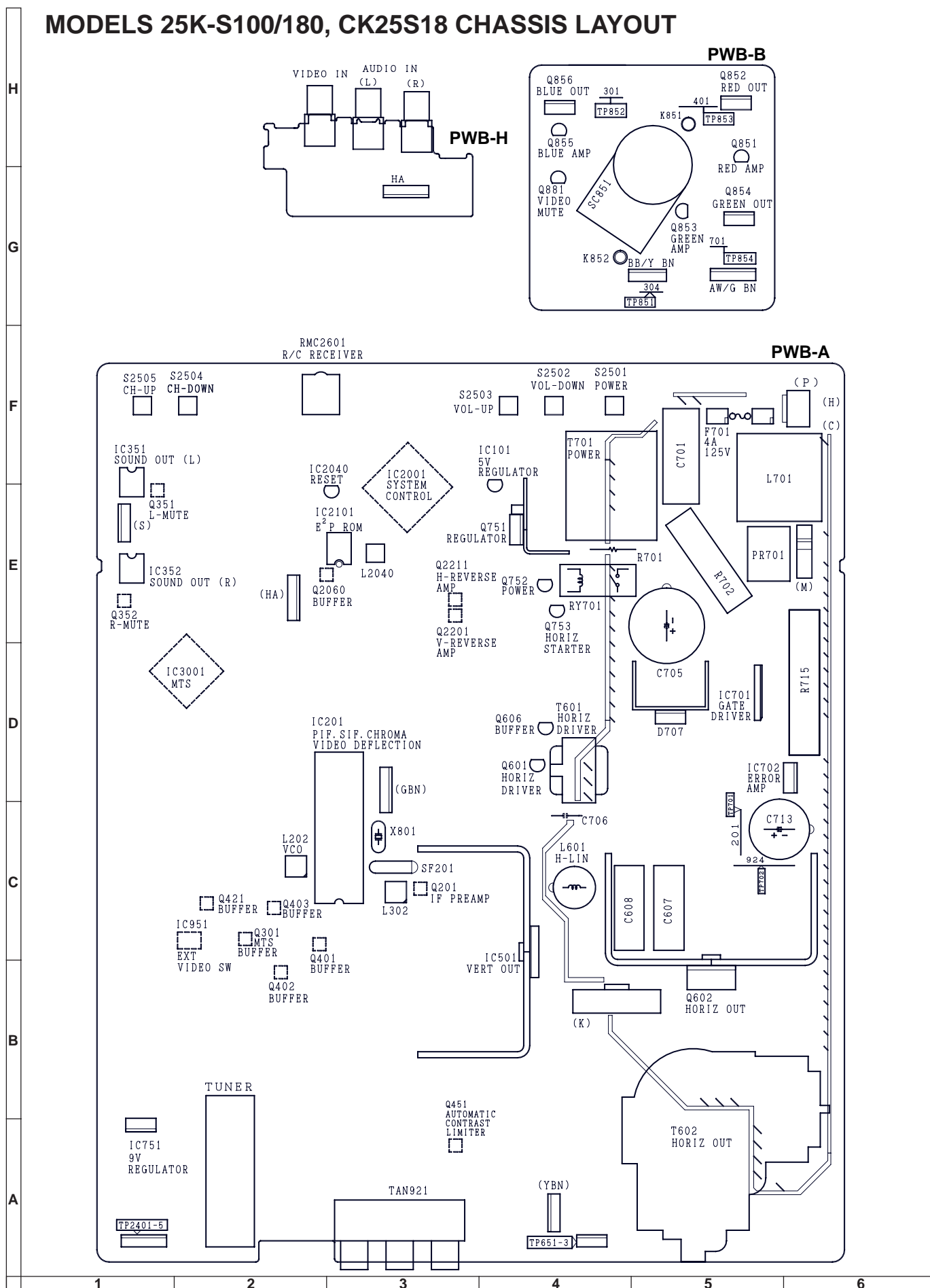




# MODELS 25K-M180 CHASSIS LAYOUT



## MODELS 25K-S100/180, CK25S18 CHASSIS LAYOUT











# DESCRIPTION OF SCHEMATIC DIAGRAM

## NOTES:

1. The unit of resistance "ohm" is omitted.  
( $K=k\Omega=1000\Omega$ ,  $M=M\Omega$ )
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors are  $\mu F$ , unless otherwise noted.  
( $P=pF=\mu\mu F$ )
4. (G) indicates  $\pm 2\%$  tolerance may be used.
5.  $\perp$  indicates line isolated ground.
6.  $\downarrow$  indicates hot ground.

## VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 $\mu$  V B & W or Color signal.

## WAVEFORM MEASUREMENT CONDITIONS:

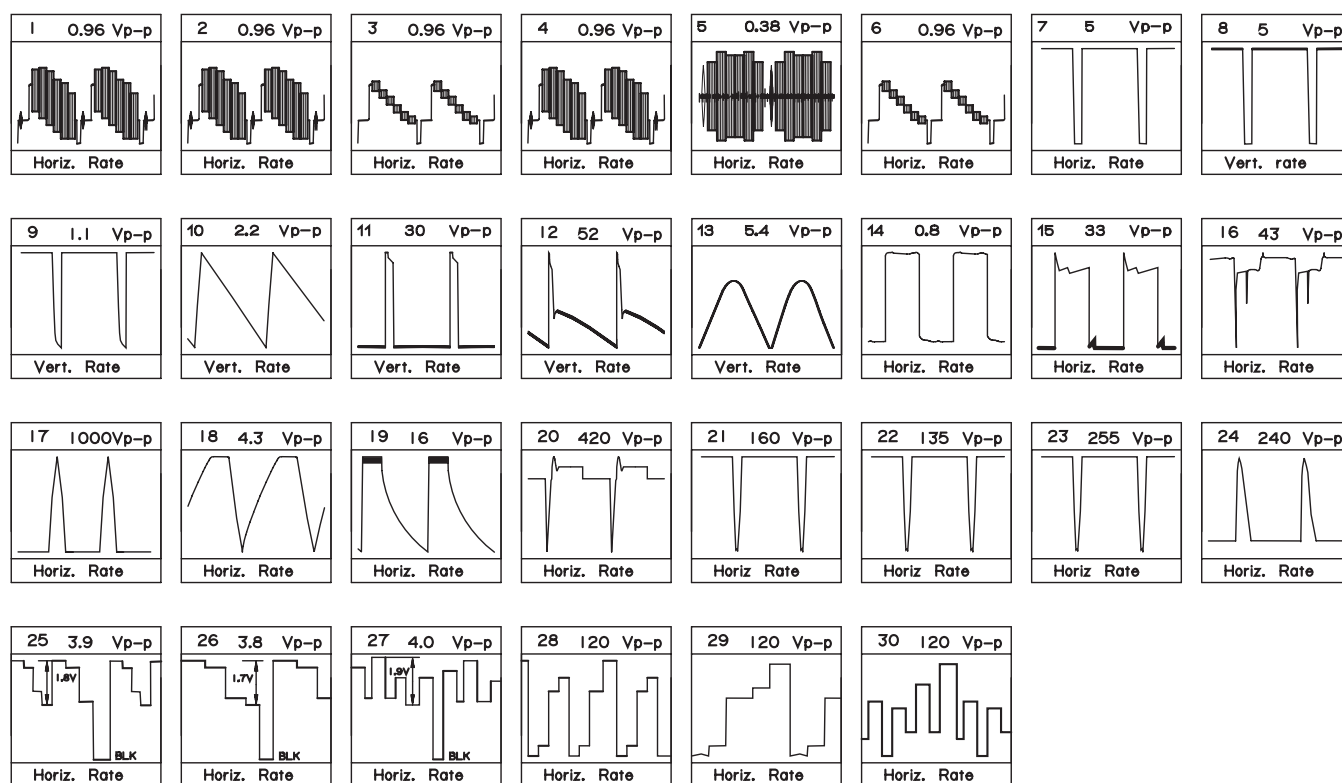
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  $\bigcirc$  indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

$\triangle$  AND SHADED (  ) COMPONENTS  
= SAFETY RELATED PARTS.  
 $\blacktriangle$  MARK= X-RAY RELATED PARTS.

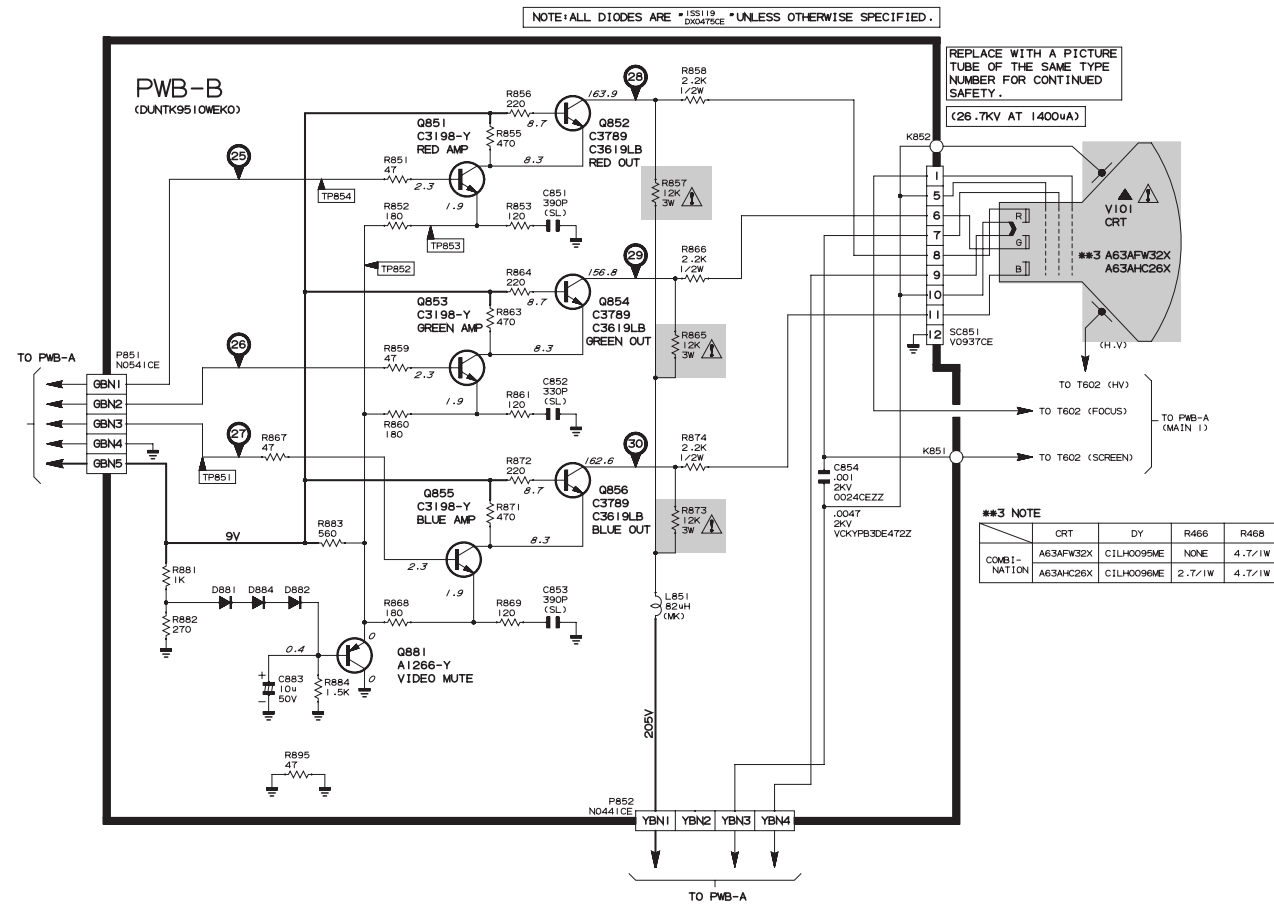
DRGANNES MARQUES  $\triangle$  ET HACHRES (  ):  
PIECES RELATIVES A LA SECURITE.  
MARQUE  $\blacktriangle$  : PIECS RELATIVE AUX RAYONS X.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

# WAVE FORMS

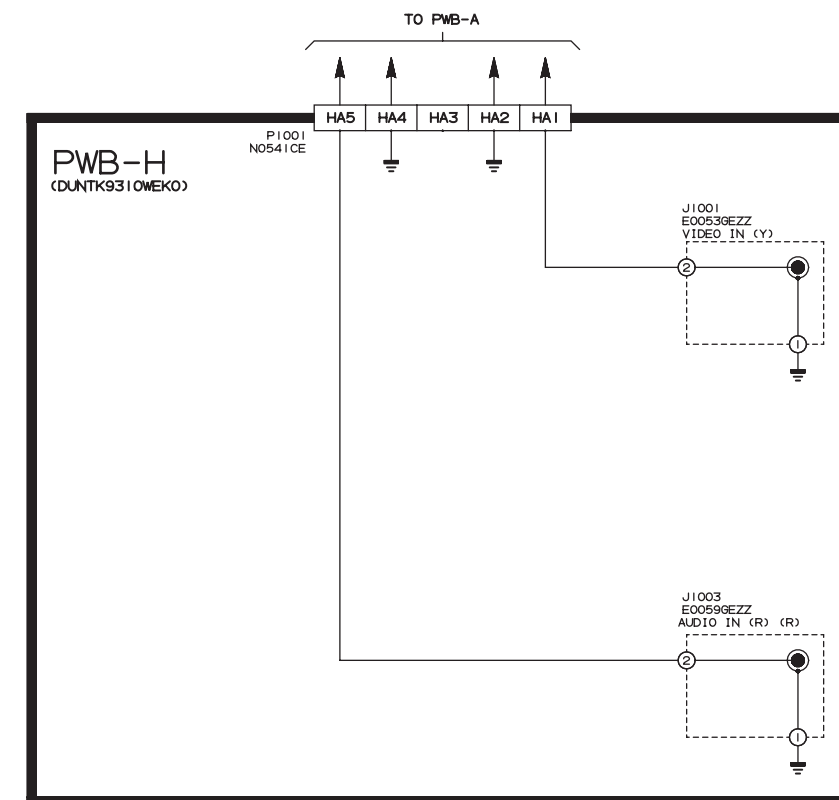


### SCHEMATIC DIAGRAM: CRT Unit

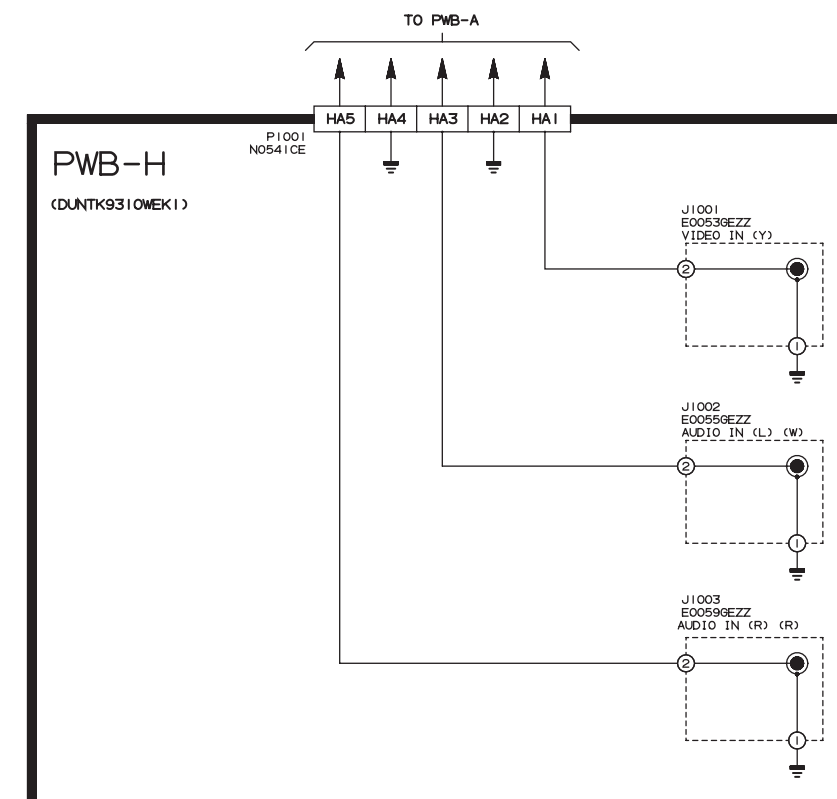


### SCHEMATIC DIAGRAM: FRONT AV Unit

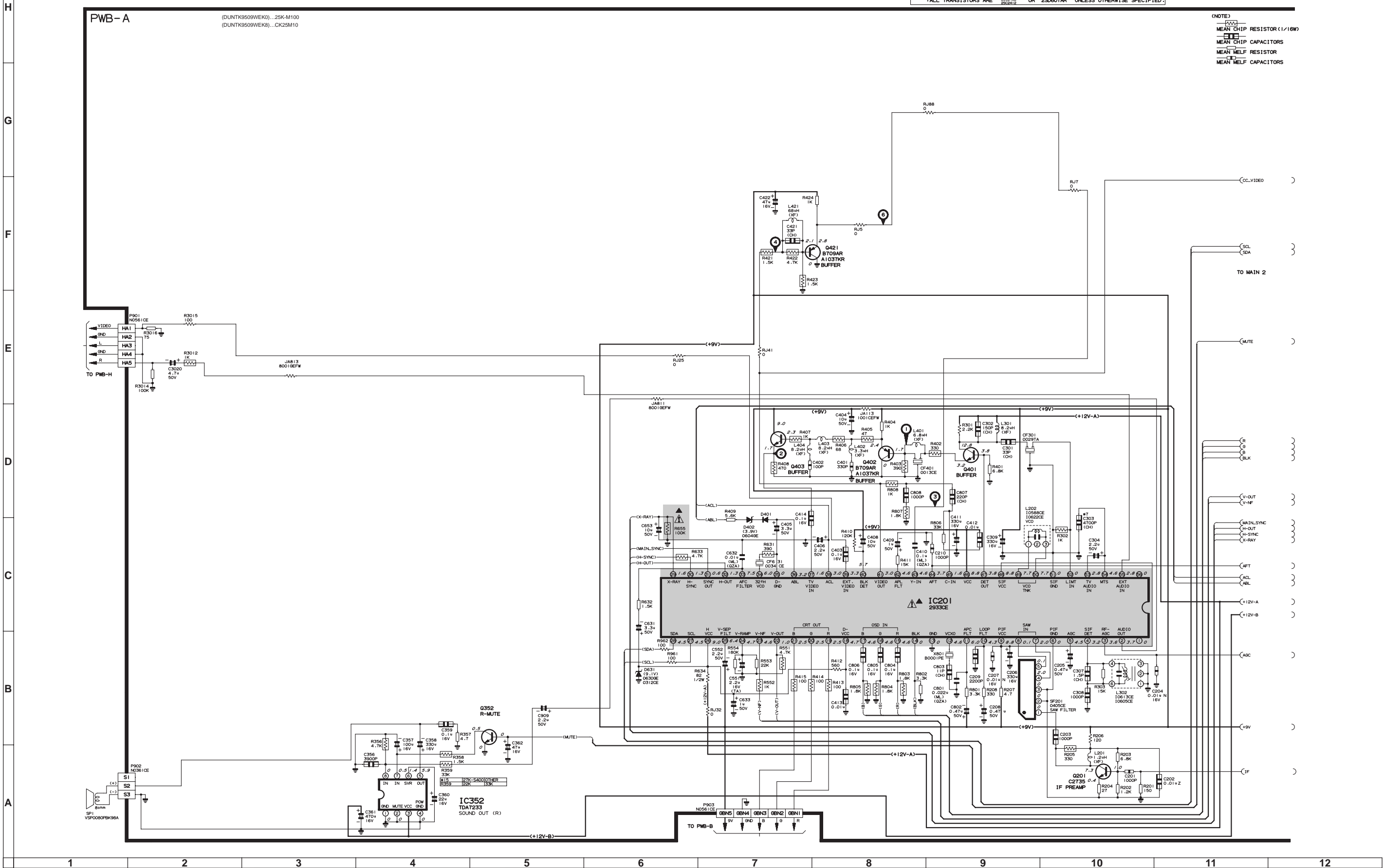
**(25K-M100/180, CK25M10)**



**(25K-S100/180, CK25S18)**

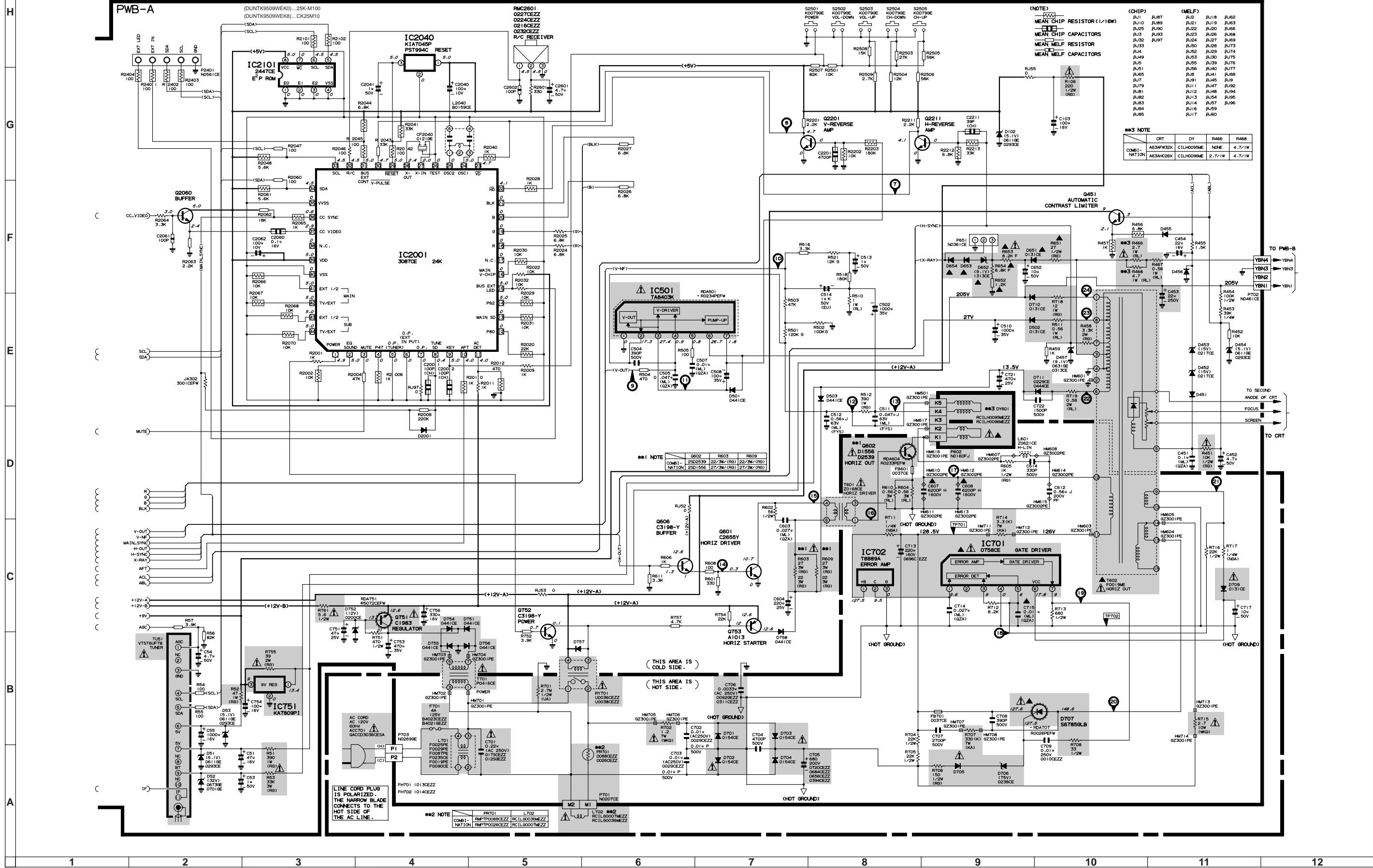


MODELS 25K-M100, CK25M10 SCHEMATIC DIAGRAM: MAIN-1 Unit

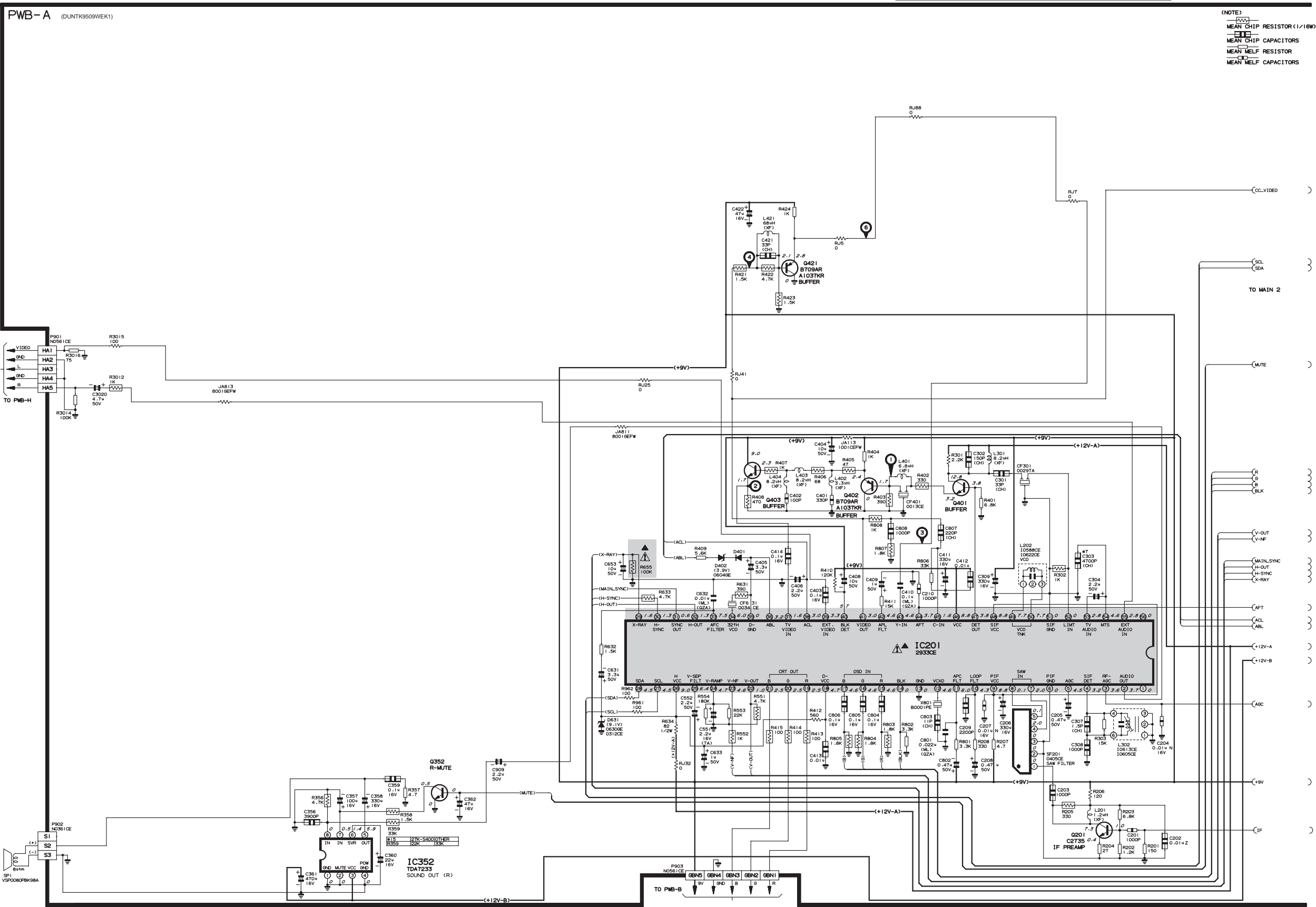




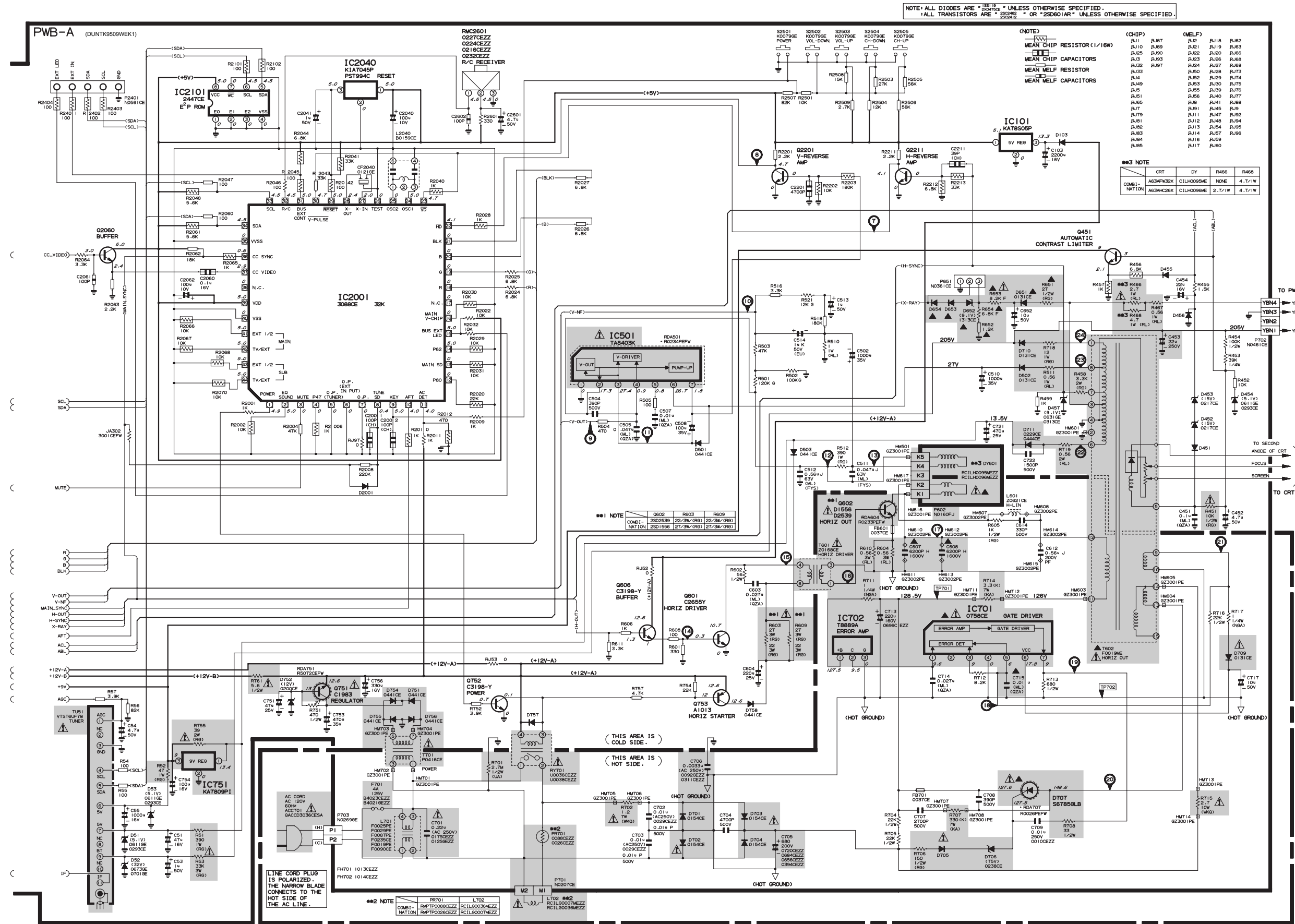
MODELS 25K-M100, CK25M10 SCHEMATIC DIAGRAM: MAIN-2 Unit



MODEL 25K-M180 SCHEMATIC DIAGRAM: MAIN-1 Unit



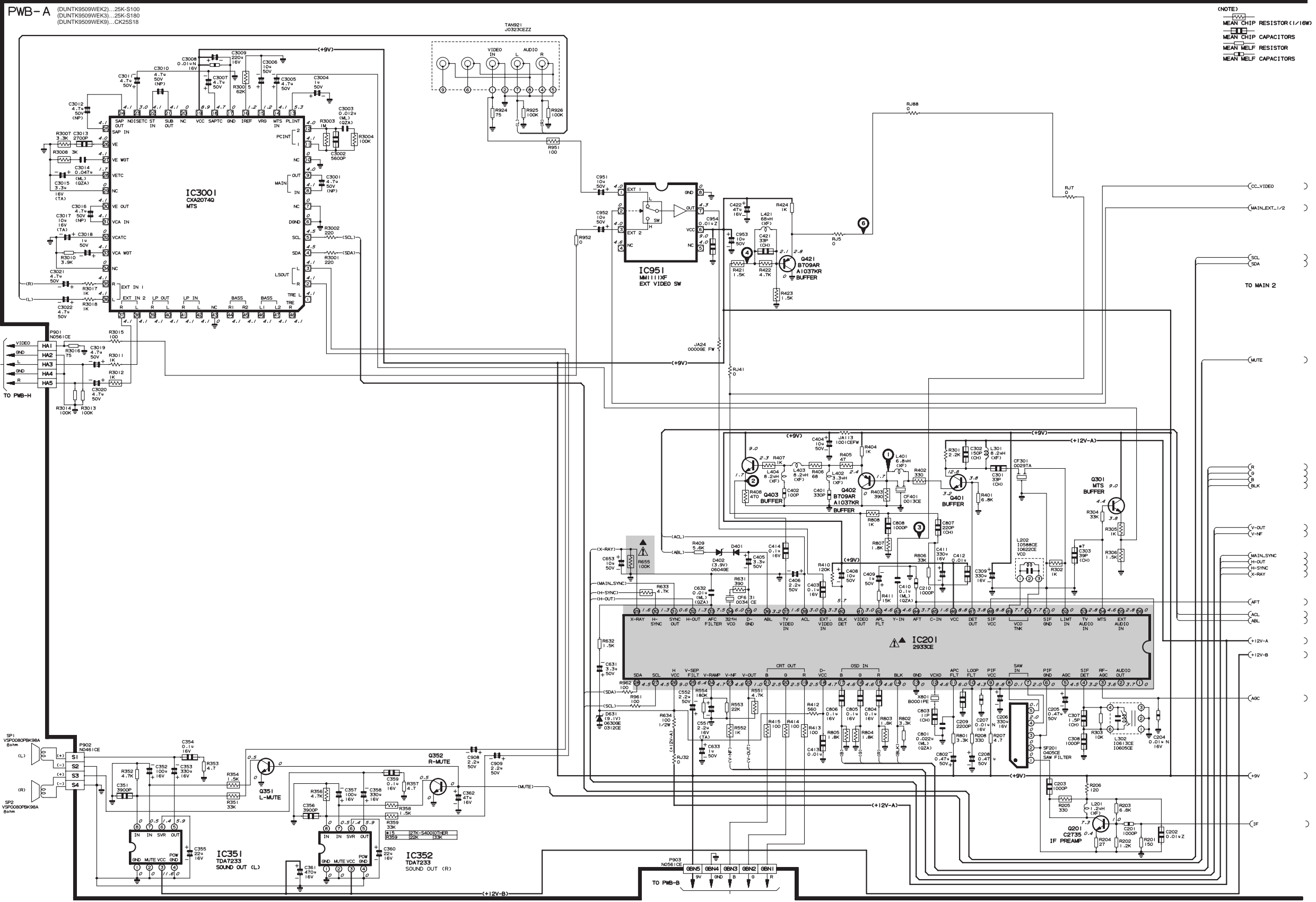
## MODEL 25K-M180 SCHEMATIC DIAGRAM: MAIN-2 Unit



# MODELS 25K-S100/180, CK25S18 SCHEMATIC DIAGRAM: MAIN-1 Unit

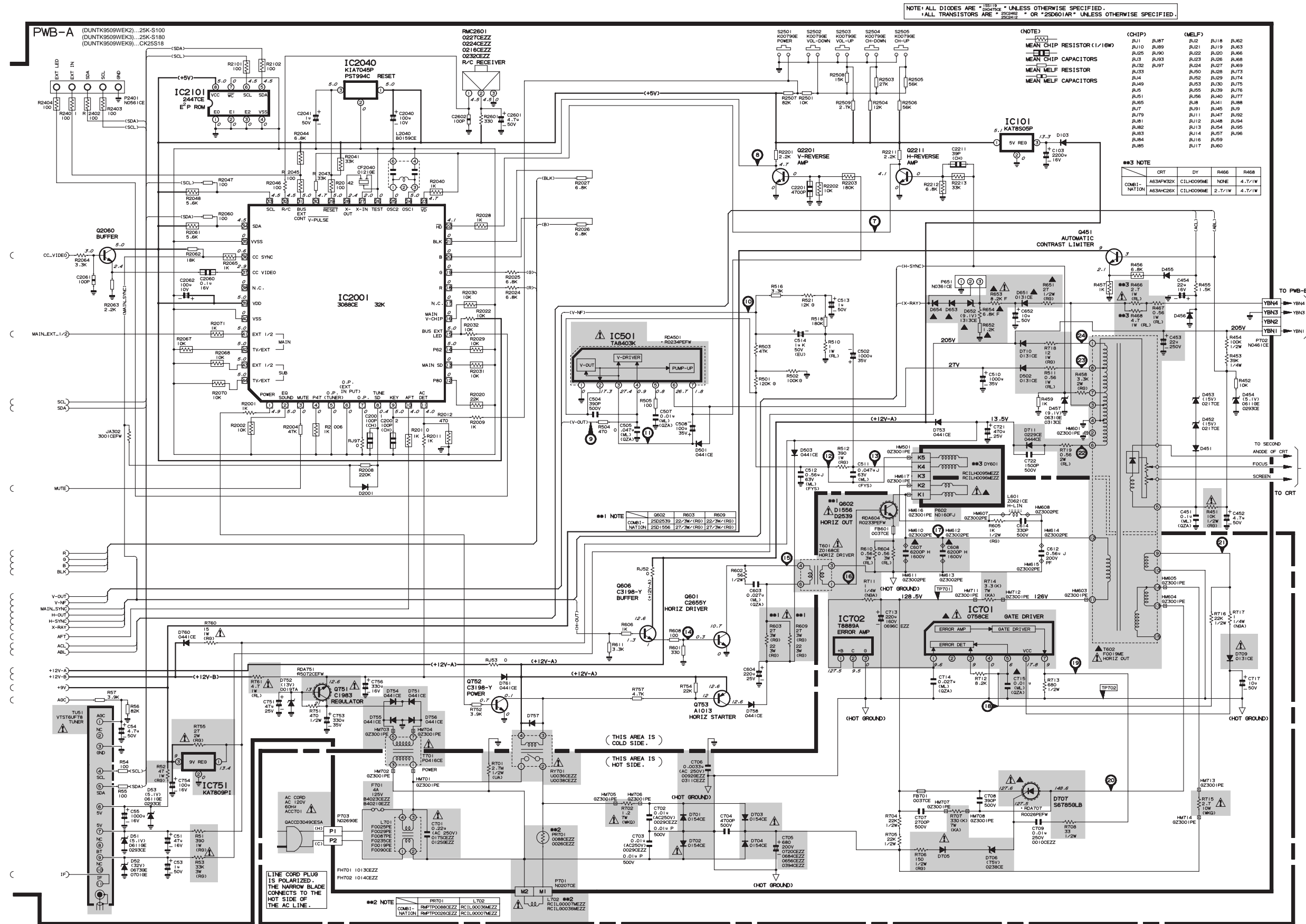
NOTE: ALL DIODES ARE \*1SS119 \*UNLESS OTHERWISE SPECIFIED.  
\*1N4148 \*OR \*2SD3611AR \*UNLESS OTHERWISE SPECIFIED.

(NOTE)  
MEAN CHIP RESISTOR (1/16W)  
MEAN CHIP CAPACITORS  
MEAN MELF RESISTOR  
MEAN MELF CAPACITORS



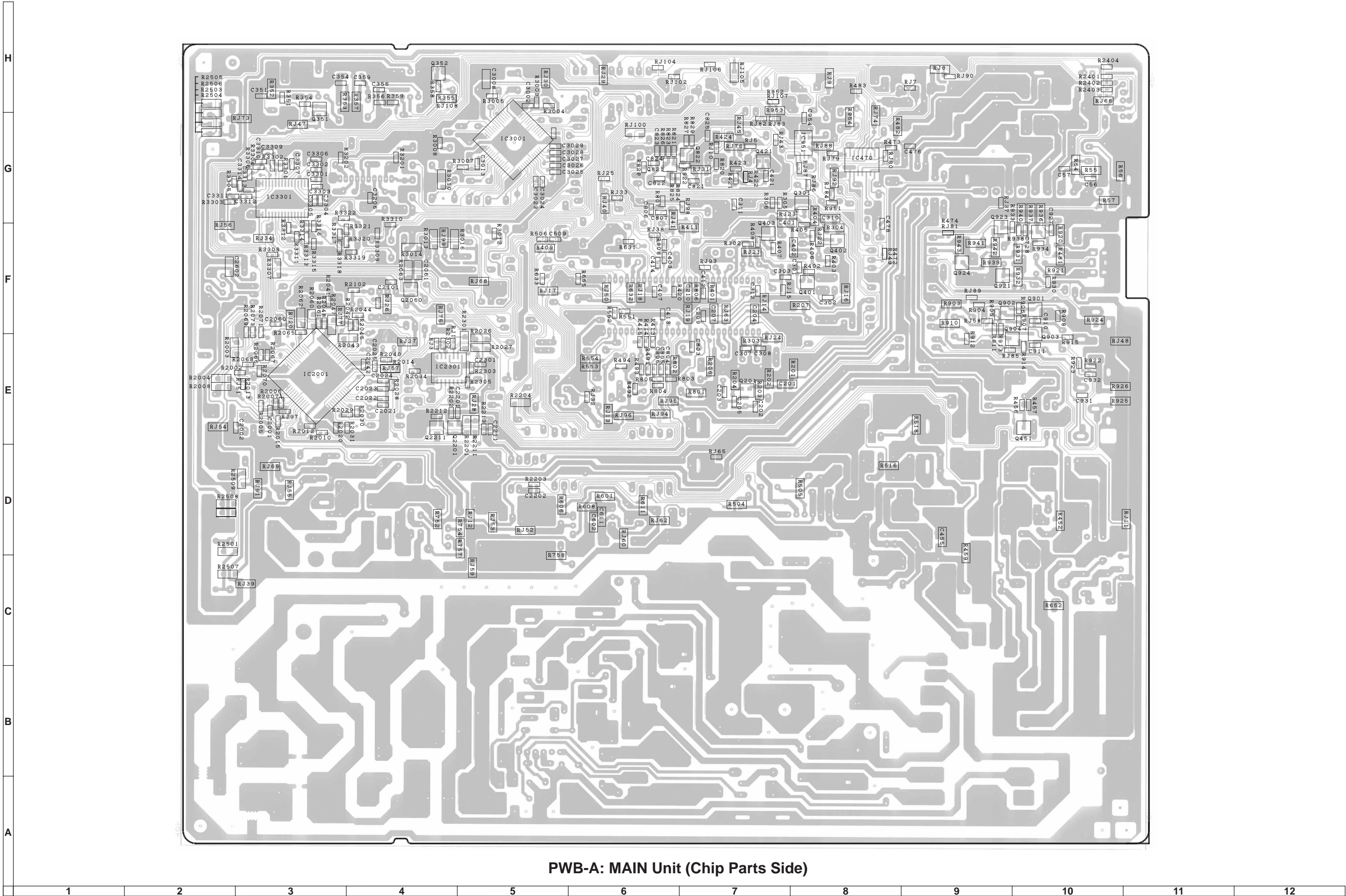


## MODELS 25K-S100/180, CK25S18 SCHEMATIC DIAGRAM: MAIN-2 Unit










PWB-A: MAIN Unit (Chip Parts Side)

## PARTS LIST

### PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual ; electrical components having such features are identified by  and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which dose no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

#### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

in **USA**:           Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

MARK★: SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
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### PICTURE TUBE


▲▲	V101	VB63AFW32X/*S or VB63AHC26X/*S	M	Picture Tube	CK
▲▲	DY601	RCiLH0095MEZZ or RCiLH0096MEZZ	M	Deflection Yoke	BB
▲	L702	RCiLG0036MEZZ or RCiLG0007MEZZ	M	Degaussing Coil (PR701:P0088CE)	BB
		MSPRT0002MEZZ	M	Spring for CRT	AA
		PMAGF3004MEZZ	M	Magnet A'ssy	AG
		QEARC2508MEZZ	M	Ground-Part	AF
COMBI-NATION		CRT	DY	R466	R468
		A63AFW32X	H0095ME	NONE	4.7/(1W)
		A63AHC26X	H0096ME	2.7/(1W)	4.7/(1W)

### PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A DUNTK9509WEK0	—	MAIN Unit (25K-M100)	—
PWB-A DUNTK9509WEK1	—	MAIN Unit (25K-M180)	—
PWB-A DUNTK9509WEK2	—	MAIN Unit (25K-S100)	—
PWB-A DUNTK9509WEK3	—	MAIN Unit (25K-S180)	—
PWB-A DUNTK9509WEK8	—	MAIN Unit (CK25M10)	—
PWB-A DUNTK9509WEK9	—	MAIN Unit (CK25S18)	—
PWB-B DUNTK9510WEK0	—	CRT Unit	—
PWB-H DUNTK9310WEK0	—	FRONT AV Unit	—
		(25K-M100/180, CK25M10)	
PWB-H DUNTK9310WEK1	—	FRONT AV Unit	—
		(25K-S100/180, CK25S18)	

## LISTE DES PIECES

### CHANGE DES PIECES

Les pi`eces de rechange qui pr`e`sentent ces caract`eristiques sp`eciales de s`e`curit`e, sont identifi`ees dans ce manuel : les pi`eces `electriques qui pr`esentent ces particularit`es, sont rep`er`e`es par la marque  et sont hachur`ees dans les listes de pi`eces et dans les diagrammes sch`ematiques.  
La substitution d'une pi`ece de rechange par une autre qui ne pr`esente pas les m`emes caract`eristiques de s`e`curit`e que la pi`ece recommand`ee par l'usine et dans ce manuel de service, peut provoquer une `electrocution, un incendie ou toutautre sinistre.

#### "COMMENT COMMANDER LES PIECES DE RECHANGE"

Pour que votre commande soit rapidement et correctement remplie, veuillez fournir les renseignements suivants.

1. NUMERO DU MODELE
2. NO. DE REF
3. NO. DE PIECE
4. DESCRIPTION

in **CANADE**:   Contact SHARP Electronics of Conada Limited  
Phone (416) 890-2100

★MARQUE: SECTION LIVRAISON DES PIECES DE RECHANGE

▲ MARQUE : PIECES RELATIVE AUX RAYONS X

Ref. No.	Part No.	★	Description	Code
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**PWB-A: DUNTK9509WEK0 (25K-M100)**  
**PWB-A: DUNTK9509WEK1 (25K-M180)**  
**PWB-A: DUNTK9509WEK8 (CK25M10)**  
**MAIN UNIT**

#### TUNER

**THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY  
BUT NOT INDEPENDTLY**

▲	TU51	VTUVTST6UF78/	J	Tuner	BD
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#### INTEGRATED CIRCUITS

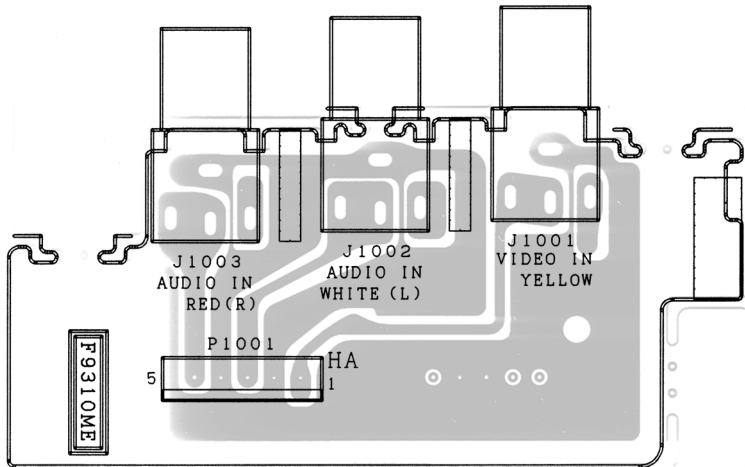
	IC101	VHiKA78S05P-1	J	KIA78S05P (25K-M180)	AD
▲▲	IC201	RH-iX2933CEZZ	J	TA1268N	AX
	IC352	VHiTDA7233/-1	J	TDA7233	AF
▲	IC501	VHiTA8403K/-1	J	TA8403K	AL
▲▲	IC701	RH-iX0758CEZZ	J	T8150	AF
▲	IC702	VHiT8889A//--1	J	T8889A	AL
▲	IC751	VHiKA7809Pi-1	R	KIA7809PI	AE
	IC2001	RH-iX3087CEZZ	J	I.C.	AV
	IC2040	VHiKiA7045P-1	J	KIA7045P	AD
	IC2101	RH-iX2447CEN1	J	ST24C01B6	AL

#### TRANSISTORS

You can substitute "VS2SD601AR/-1" for "VS2SC2462-C-1" for "VS2SC2412-C-1"

Q201	VS2SC2735//1E	J	2SC2735	AC
Q352	VS2SD601AR/-1	J	2SD601	AC
Q401	VS2SD601AR/-1	J	2SD601	AC
Q402	VS2SB709AR/-1	J	2SB709	AC
	or			
	VS2SA1037KR-1		2SA1037	
Q403	VS2SD601AR/-1	J	2SD601	AC

PWB-B: CRT Unit (Wiring Side)



PWB-H: FRONT AV Unit (Wiring Side)



Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK0 (25K-M100)</b>				
<b>PWB-A: DUNTK9509WEK1 (25K-M180)</b>				
<b>PWB-A: DUNTK9509WEK8 (CK25M10)</b>				
<b>MAIN UNIT (Continued)</b>				
Q421	VS2SB709AR/-1	J	2SB709	AC
	or			
	VS2SA1037KR-1		2SA1037	
Q451	VS2SD601AR/-1	J	2SD601	AC
Q601	VS2SC2655Y/-1	J	2SC2655	AE
△ Q602	VS2SD1556//1E	J	2SD1556	AP
	or			
	VS2SD2539//1E	J	2SD2539	
	Q602	R603	R609	
COMBI-	2SD1556	27/(3W)	27/(3W)	
NATION	2SD2539	22/(3W)	22/(3W)	
Q606	VS2SC3198-Y-1	J	2SC3198(Y)	AA
△ Q751	VS2SC1983//2	J	2SC1983	AF
Q752	VS2SC3198-Y-1	J	2SC3198(Y)	AA
Q753	VS2SA1013//1E	J	2SA1013	AD
Q2060	VS2SD601AR/-1	J	2SD601	AC
Q2201	VS2SD601AR/-1	J	2SD601	AC
Q2211	VS2SD601AR/-1	J	2SD601	AC

**DIODES**

You can substitute "VHD1SS119//1" for "RH-DX0475CEZZ"

D51	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
	or			
	RH-EX0293CEZZ			
D52	RH-EX0673GEZZ	J	Zener Diode, 32V	AB
	or			
	RH-EX0701CEZZ			
D53	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
	or			
	RH-EX0293CEZZ			
D102	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
	or		(25K-M100, CK25M10)	
	RH-EX0293CEZZ			
D103	VHD1SS119//1	J	Diode (25K-M180)	AB
D401	VHD1SS119//1	J	Diode	AB
D402	RH-EX0604GEZZ	J	Zener Diode, 3.9V	AB
D451	VHD1SS119//1	J	Diode	AB
D452	RH-EX0217CEZZ	J	Zener Diode, 15V	AB
D453	RH-EX0217CEZZ	J	Zener Diode, 15V	AB
D454	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
	or			
	RH-EX0293CEZZ			
D455	VHD1SS119//1	J	Diode	AB
D456	VHD1SS119//1	J	Diode	AB
D457	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA
	or			
	RH-EX0313CEZZ			
D470	VHD1SS119//1	J	Diode	AB
D501	RH-DX0441CEZZ	J	Diode	AC
△ D502	RH-DX0131CEZZ	J	Diode	AC
D503	RH-DX0441CEZZ	J	Diode	AC
D631	RH-EX0630GEZZ	J	Zener Diode, 9.1V	AA
	or			
	RH-EX0312CEZZ			
▲▲ D651	RH-DX0131CEZZ	J	Diode	AC
▲▲ D652	RH-EX1313CEZZ	M	Zener Diode, 9.1V	AB
▲▲ D653	VHD1SS119//1	J	Diode	AB

Ref. No.	Part No.	★	Description	Code
▲▲ D654	VHD1SS119//1	J	Diode	AB
▲ D701	RH-DX0154CEZZ	J	Diode	AC
▲ D702	RH-DX0154CEZZ	J	Diode	AC
▲ D703	RH-DX0154CEZZ	J	Diode	AC
▲ D704	RH-DX0154CEZZ	J	Diode	AC
▲ D705	VHD1SS119//1	J	Diode	AB
▲ D706	RH-EX0238CEZZ	J	Zener Diode, 75V	AC
▲▲ D707	VHSS6785GLB2E	J	Si Control Rectifier	AL
▲ D709	RH-DX0131CEZZ	J	Diode	AC
▲ D710	RH-DX0131CEZZ	J	Diode	AC
▲ D711	RH-DX0229CEZZ	J	Diode	AF
	or			
	RH-DX0444CEZZ			
▲ D751	RH-DX0441CEZZ	J	Diode	AC
D752	RH-EX0200CEZZ	J	Zener Diode, 12V	AB
▲ D754	RH-DX0441CEZZ	J	Diode	AC
▲ D755	RH-DX0441CEZZ	J	Diode	AC
▲ D756	RH-DX0441CEZZ	J	Diode	AC
D757	VHD1SS119//1	J	Diode	AB
D758	RH-DX0441CEZZ	J	Diode	AC
D2001	VHD1SS119//1	J	Diode	AB

**PACKAGED CIRCUITS**

▲ PR701	RMPTP0088CEZZ	M	Packaged Circuit	AF
	or		(L702: G0036ME)	
	RMPTP0026CEZZ		(L702: G0003ME)	AF
X801	RCRSB0001PEZZ	R	Crystal	AL

**FILTERS**

CF301	RFiLC0029TAZZ	J	Filter	AD
CF401	RFiLC0013CEZZ	J	Filter	AE
CF631	RFiLA0034CEZZ	J	Filter	AD
CF2040	RFiLC0121GEZZ	J	Filter	AD
SF201	RFiLC0405CEZZ	J	SAW Filter	AH

**COILS**

L201	VP-XF1R2K0000	J	Peaking 1.2μH	AB
L202	RCiLi0588CEZZ	J	If Coil	AF
	or			
	RCiLi0822CEZZ			
L301	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L302	RCiLi0613CEZZ	J	If Coil	AE
	or			
	RCiLi0615CEZZ			
L401	VP-XF6R8K0000	J	Peaking 6.8μH	AB
L402	VP-XF3R3K0000	J	Peaking 3.3μH	AB
L403	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L404	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L421	VP-XF680K0000	J	Peaking 68μH	AB
L601	RCiLZ0621CEZZ	J	Coil	AH
▲ L701	RCiLF0025PEZZ	M	Coil (25K-M100/180)	AE
	or			
	RCiLF0029PEZZ			AH
	or			
	RCiLF0087PEZZ			
	or			
	RCiLF0235CEZZ			AK
	or			
	RCiLF0019PEZZ			AN
	or			
	RCiLF0090CEZZ			AL

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK0 (25K-M100)</b>				
<b>PWB-A: DUNTK9509WEK1 (25K-M180)</b>				
<b>PWB-A: DUNTK9509WEK8 (CK25M10)</b>				
<b>MAIN UNIT (Continued)</b>				

△ L701	RCiLF0090CEZZ	J	Coil (CK25M10)	AL
L2040	RCiLB0159CEZZ	M	Oscillation Coil	AD

### TRANSFORMERS

△ T601	RTRNZ0168CEZZ	J	H-driver	AH
▲△ T602	RTRNF0019MEZZ	M	H-out	
△ T701	RTRNP0416CEZZ	J	Power (25K-M100/180)	AV
△ T701	RTRNP0516CEZZ	J	Power (CK25M10)	AV

### CAPASITORS

[EL... Electrolytic, M-Poly... Metalized Polypro Film]

C51	VCEA0A1CW476M	J	47 16V EL.	AB
C53	VCEA0A1HW105M	J	1 50V EL.	AB
C54	VCEA0A1HW475M	J	4.7 50V EL.	AB
C55	VCEA0A1CW108M	J	1000 16V EL.	AD
C103	VCEA0A1CW107M	J	100 16V EL.	AC
			(25K-M100, CK25M10)	
C103	VCEA0A1CW228M	J	2200 16V EL.	AC
			(25K-M180)	
C201	VCKYMN1HB102K	J	1000p 50V Ceramic	AA
C202	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C203	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C204	VCKYMN1CY103N	J	0.01 16V Ceramic	AA
C205	VCEA0A1HW474M	J	0.47 50V EL.	AB
C206	VCEA0A1CW337M	J	330 16V EL.	AC
C207	VCKYMN1CY103N	J	0.01 16V Ceramic	AA
C208	VCEA0A1HW474M	J	0.47 50V EL.	AB
C209	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C210	VCKYMN1HB102K	J	1000p 50V Ceramic	AA
C301	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C302	VCCCCY1HH151J	J	150p 50V Ceramic	AA
C303	VCKYCY1HB472K	J	4700p 50V Ceramic	AA
C304	VCEA0A1HW225M	J	2.2 50V EL.	AB
C307	VCCCCY1HH1R5C	J	1.5p 50V Ceramic	AD
C308	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C309	VCEA0A1CW337M	J	330 16V EL.	AC
C356	VCKYCY1HB392K	J	3900p 50V Ceramic	AA
C357	VCEA0A1CW107M	J	100 16V EL.	AC
C358	VCEA0A1CW337M	J	330 16V EL.	AC
C359	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C360	VCEA0A1CW226M	J	22 16V EL.	AB
C361	VCEA0A1CW477M	J	470 16V EL.	AC
C362	VCEA0A1CW476M	J	47 16V EL.	AB
C401	VCKYMN1HB331K	J	330p 50V Ceramic	AA
C402	VCKYMN1HB101K	J	100p 50V Ceramic	AA
C403	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C404	VCEA0A1HW106M	J	10 50V EL.	AB
C405	VCEA0A1HW335M	J	3.3 50V EL.	AB
C406	VCEA0A1HW225M	J	2.2 50V EL.	AB
C408	VCEA0A1HW106M	J	10 50V EL.	AB
C409	VCEA0A1HW105M	J	1 50V EL.	AB
C410	RC-QZA104TAYK	J	0.1 50V Mylar	AB
C411	VCEA0A1CW337M	J	330 16V EL.	AC

Ref. No.	Part No.	★	Description	Code
C412	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C413	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C414	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C421	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C422	VCEA0A1CW476M	J	47 16V EL.	AB
C451	RC-QZA104TAYK	J	0.1 50V Mylar	AB
C452	VCEA0A1HW475M	J	4.7 50V EL.	AB
C453	VCEA0A2EW226M	M	22 250V EL.	AD
C454	VCEA0A1CW226M	J	22 16V EL.	AB
C502	VCEA0A1VW108M	J	1000 35V EL.	AD
C504	VCKYPA2HB391K	J	390p 500V Ceramic	AA
C505	RC-QZA473TAYK	J	0.047 50V Mylar	AB
C507	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C508	VCEA0A1VW107M	J	100 35V EL.	AC
C510	VCEA0A1VW108M	J	1000 35V EL.	AD
C511	VCFYSA1JA473J	J	0.047 63V Mylar	AC
C512	VCFYSA1JA564J	J	0.56 63V Mylar	AE
C513	VCEA0A1HW105M	J	1 50V EL.	AB
C514	VCEACA1HC105K	J	1 50V EL.	AC
C551	VCSATA1CE225K	J	2.2 16V Tantalum	AB
C552	VCEA0A1HW225M	J	2.2 50V EL.	AB
C603	RC-QZA273TAYK	J	0.027 50V Mylar	AB
C604	VCEA0A1EW227M	M	220 25V EL.	AA
▲△ C607	VCFPPD3CA622H	J	6200p 1600V M-Poly.	AE
▲△ C608	VCFPPD3CA622H	J	6200p 1600V M-Poly.	AE
C612	VCFPPD2DB564J	J	0.56 200V M-Poly.	AF
C614	VCKYPA2HB331K	J	330p 500V Ceramic	AA
C631	VCEA0A1HW335M	J	3.3 50V EL.	AB
C632	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C633	VCEA0A1HW105M	J	1 50V EL.	AB
C652	VCEA0A1HW106M	J	10 50V EL.	AB
C653	VCEA0A1HW106M	J	10 50V EL.	AB
△ C701	RC-FZ017SCEZZ	J	0.22 AC250V Plastic	AD
	or			
	RC-FZ012SGEZZ			
C702	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
	or			
	VCKYPB2HE103P	J	0.01 500V Ceramic	
C703	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
	or			
	VCKYPB2HE103P	J	0.01 500V Ceramic	
C704	VCKYPA2HB472K	J	4700p 500V Ceramic	AB
△ C705	RC-EZ0720CEZZ	M	680 200V EL.	AL
	or			
	RC-EZ0684CEZZ			
	or			
	RC-EZ0656CEZZ			
	or			
	RC-EZ0394CEZZ			AP
△ C706	RC-KZ0092GEZZ	J	0.0033 AC250V Ceramic	AC
	or			
	RC-KZ0311CEZZ			AD
C707	VCKYPA2HB272K	J	2700p 500V Ceramic	AA
C708	VCKYPA2HB391K	J	390p 500V Ceramic	AA
C709	RC-QZ0010CEZZ	J	0.01 250V Ceramic	AC
△ C713	RC-EZ0696CEZZ	M	220 160V EL.	AG
C714	RC-QZA273TAYK	J	0.027 50V Mylar	AB

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK0 (25K-M100)</b>				
<b>PWB-A: DUNTK9509WEK1 (25K-M180)</b>				
<b>PWB-A: DUNTK9509WEK8 (CK25M10)</b>				
<b>MAIN UNIT (Continued)</b>				
▲▲ C715	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C717	VCEA0A1HW106M	J	10 50V EL.	AB
C721	VCEA0A1EW477M	J	470 25V EL.	AD
C722	VCKYPA2HB152K	J	1500p 500V Ceramic	AA
C751	VCEA0A1EW476M	J	47 25V EL.	AB
C753	VCEA0A1VW477M	J	470 35V EL.	AB
C754	VCEA0A1CW107M	J	100 16V EL.	AC
C756	VCEA0A1CW337M	J	330 16V EL.	AC
C801	RC-QZA223TAYK	J	0.022 50V Mylar	AB
C802	VCEA0A1HW474M	J	0.47 50V EL.	AB
C803	VCCCCY1HH110J	J	11p 50V Ceramic	AA
C804	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C805	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C806	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C807	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C808	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C909	VCEA0A1HW225M	J	2.2 50V EL.	AB
C2001	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C2002	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C2041	VCEA0A1HW105M	J	1 50V EL.	AB
C2060	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C2061	VCKYMN1HB101K	J	100p 50V Ceramic	AA
C2062	VCEA0A1AW107M	J	100 10V EL.	AB
C2201	VCKYCY1HB472K	J	4700p 50V Ceramic	AA
C2211	VCCCCY1HH390J	J	39p 50V Ceramic	AA
C2601	VCEA0A1HW475M	J	4.7 50V EL.	AB
C2602	VCKYMN1HB101K	J	100p 50V Ceramic	AA
C3020	VCEA0A1HW475M	J	4.7 50V EL.	AB

**RESISTORS***[M-Ox... Metal Oxide., M-Film... Metal Film]*

RJ1	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ2	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ3	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ5	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ7	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ8	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ12	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ13	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ14	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ15	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ16	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ17	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ18	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ19	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ20	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ21	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ24	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ25	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ26	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ27	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ28	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ29	VRD-MN2BE000J	J	0 1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
RJ30	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ32	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ38	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ39	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ40	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ41	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ45	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ47	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ48	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ50	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ52	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ53	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ54	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ55	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ56	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ59	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ60	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ62	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ63	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ65	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ66	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ68	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ69	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ75	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ76	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ77	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ79	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ82	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ83	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ88	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ90	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ91	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ94	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ95	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ96	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ97	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ99	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ100	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ107	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ108	VRD-MN2BE000J	J	0 1/8W Carbon	AA
▲ R51	VRS-RG3AB391J	M	390 1W M-Ox.	AA
▲ R52	VRS-RG3AB470J	J	47 1W M-Ox.	AA
▲ R53	VRS-RG3LB333J	J	33k 3W M-Ox.	AC
R54	VRD-MN2BE101J	J	100 1/8W Carbon	AA
R55	VRD-MN2BE101J	J	100 1/8W Carbon	AA
R56	VRD-MN2BE823J	J	82k 1/8W Carbon	AA
R57	VRD-MN2BE392J	J	3.9k 1/8W Carbon	AA
▲ R106	VRS-RG2HC221J	M	220 1/2W M-Ox.	
R201	VRD-MN2BE151J	J	150 1/8W Carbon	AA
R202	VRD-MN2BE122J	J	1.2k 1/8W Carbon	AA
R203	VRD-MN2BE682J	J	6.8k 1/8W Carbon	AA
R204	VRD-MN2BE270J	J	27 1/8W Carbon	AA
R205	VRS-CY1JF331J	J	330 1/16W M-Ox.	AA
R206	VRD-RA2BE121J	J	120 1/8W Carbon	AA
R207	VRD-MN2BE4R7J	J	4.7 1/8W Carbon	AA
R208	VRD-MN2BE331J	J	330 1/8W Carbon	AA
R301	VRD-RA2BE222J	J	2.2k 1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK0 (25K-M100)</b>					R602	VRD-RM2HD560J	J 56	1/2W Carbon	AA
<b>PWB-A: DUNTK9509WEK1 (25K-M180)</b>					△ R603	VRS-RG3LB270J	M 27	3W M-Ox. (Q602:2SD1556)	
<b>PWB-A: DUNTK9509WEK8 (CK25M10)</b>					or				
<b>MAIN UNIT (Continued)</b>						VRS-RG3LB220J	J 22	3W M-Ox. (Q602:2SD2539)	
R302	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA	△ R604	VRN-RL3LBR56J	M 0.56	3W M-Film	
R303	VRD-MN2BE153J	J 15k	1/8W Carbon	AA	R605	VRS-RG2HC102J	J 1k	1/2W M-Ox.	AA
R356	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA	R606	VRD-MN2BE102J	J 1k	1/8W Carbon	AA
R357	VRD-MN2BE4R7J	J 4.7	1/8W Carbon	AA	R608	VRD-MN2BE101J	J 100	1/8W Carbon	AA
R358	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA	△ R609	VRS-RG3LB270J	M 27	3W M-Ox. (Q602:2SD1556)	
R359	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA	or				
R401	VRD-MN2BE682J	J 6.8k	1/8W Carbon	AA		VRS-RG3LB220J	J 22	3W M-Ox. (Q602:2SD2539)	
R402	VRS-CY1JF331J	J 330	1/16W M-Ox.	AA	△ R610	VRN-RL3LBR56J	M 0.56	3W M-Film	AA
R403	VRS-CY1JF391J	J 390	1/16W M-Ox.	AA	R611	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA
R404	VRD-MN2BE102J	J 1k	1/8W Carbon	AA	R631	VRS-CY1JF391J	J 390	1/16W M-Ox.	AA
R405	VRS-CY1JF470J	J 47	1/16W M-Ox.	AA	R632	VRD-MN2BE152J	J 1.5k	1/8W Carbon	AA
R406	VRS-CY1JF680J	J 68	1/16W M-Ox.	AA	R633	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA
R407	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA	R634	VRD-RM2HD820J	J 82	1/2W Carbon	AA
R408	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA	▲▲ R651	VRS-RG2HC270J	M 27	1/2W M-Ox.	AA
R409	VRD-MN2BE562J	J 5.6k	1/8W Carbon	AA	▲▲ R652	VRD-MN2BE122J	J 1.2k	1/8W Carbon	AA
R410	VRD-RA2BE124J	J 120k	1/8W Carbon	AA	▲▲ R653	VRN-RA2BK822F	J 8.2k	1/8W M-Film	AA
R411	VRD-MN2BE153J	J 15k	1/8W Carbon	AA	▲▲ R654	VRN-RA2BK682F	J 6.8k	1/8W M-Film	AA
R412	VRD-RA2BE561J	J 560	1/8W Carbon	AA	▲▲ R655	VRS-CY1JF104J	J 100k	1/16W M-Ox.	AA
R413	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA	△ R701	VRC-UA2HG275K	J 2.7M	1/2W Solid (25K-M100/180)	AA
R414	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA	△ R701	VRC-UB2HG275K	J 2.7M	1/2W Solid(CK25M10)	
R415	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA	△ R702	VRW-KQ3NC1R2K	J 1.2	7W Cement	AE
R421	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA	R704	VRD-RM2HD223J	J 22k	1/2W Carbon	AA
R422	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA	R705	VRD-RM2HD223J	J 22k	1/2W Carbon	AA
R423	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA	△ R706	VRS-RG2HC151J	J 150	1/2W M-Ox.	AA
R424	VRD-MN2BE102J	J 1k	1/8W Carbon	AA	△ R707	VRS-KA3NG331K	M 330	7W M-Ox.	AC
△ R451	VRS-RG2HC103J	J 10k	1/2W M-Ox.	AA	△ R708	VRD-RM2HD330J	J 33	1/2W Carbon	AA
R452	VRD-MN2BE103J	J 10k	1/8W Carbon	AA	△ R711	VRN-GA2EB1R0J	J 1	1/4W M-Film	AA
R453	VRD-RA2EE393J	J 39k	1/4W Carbon	AA	R712	VRD-RA2BE822J	J 8.2k	1/8W Carbon	AA
R454	VRD-RM2HD104J	J 100k	1/2W Carbon	AA	R713	VRD-RM2HD681J	J 680	1/2W Carbon	AA
R455	VRD-RA2BE152J	J 1.5k	1/8W Carbon	AA	△ R714	VRS-KA3NG3R3K	J 3.3	7 0W M-Ox.	AD
R456	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA	△ 715	VRW-KQ4AC2R7K	J 2.7	10W Cement	AE
R457	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA	R716	VRD-RM2HD223J	J 22k	1/2W Carbon	AA
△ R458	VRS-RG3DB332J	M 3.3k	2W M-Ox.	AA	△ R717	VRN-GA2EB1R0J	J 1	1/4W M-Film	AA
R459	VRD-MN2BE102J	J 1k	1/8W Carbon	AA	△ R718	VRS-RG3AB120J	M 12	1W M-Ox.	
R466	VRN-RL3AB2R7J	M 2.7	1W M-Film	AA	△ R719	VRN-RL3DBR56J	M 0.56	2W M-Film	AA
△ R467	VRN-RL3ABR56J	J 0.56	1W M-Film	AA	R751	VRD-RM2HD471J	J 470	1/2W Carbon	AA
△ R468	VRN-RL3AB4R7J	J 4.7	1W M-Film	AB	R752	VRD-MN2BE392J	J 3.9k	1/8W Carbon	AA
R501	VRD-RA2BE124G	J 120k	1/8W Carbon	AA	R754	VRD-MN2BE223J	J 22k	1/8W Carbon	AA
R502	VRD-RA2BE104G	J 100k	1/8W Carbon	AA	△ R755	VRS-RG3DB390J	M 39	2W M-Ox.	
R503	VRD-RA2BE473J	J 47k	1/8W Carbon	AA	R757	VRD-MN2BE472J	J 4.7k	1/8W Carbon	AA
R504	VRD-MN2BE471J	J 470	1/8W Carbon	AA	△ R761	VRD-RM2HD5R6J	J 5.6	1/2W Carbon	AA
R505	VRD-MN2BE101J	J 100	1/8W Carbon	AA	R801	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA
R510	VRN-RL3AB1R0J	M 1	1W M-Film	AA	R802	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA
△ R511	VRN-RL3ABR56J	J 0.56	1W M-Film	AA	R803	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R512	VRS-RG3AB391J	M 390	1W M-Ox.	AA	R804	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R516	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA	R805	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R518	VRD-MN2BE184J	J 180k	1/8W Carbon	AA	R806	VRD-MN2BE333J	J 33k	1/8W Carbon	AA
R521	VRD-RA2BE123G	J 12k	1/8W Carbon	AA	R807	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R551	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA					
R552	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA					
R553	VRD-MN2BE223J	J 22k	1/8W Carbon	AA					
R554	VRD-MN2BE184J	J 180k	1/8W Carbon	AA					
R601	VRD-MN2BE331J	J 330	1/8W Carbon	AA					



Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK0 (25K-M100)</b>									
<b>PWB-A: DUNTK9509WEK1 (25K-M180)</b>									
<b>PWB-A: DUNTK9509WEK8 (CK25M10)</b>									
<b>MAIN UNIT (Continued)</b>									
R808	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA			
R961	VRD-RA2BE101J	J	100	1/8W	Carbon	AB			
R962	VRD-RA2BE101J	J	100	1/8W	Carbon	AB			
R2001	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA			
R2002	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2004	VRD-MN2BE473J	J	47k	1/8W	Carbon	AA			
R2006	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA			
R2007	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA			
R2008	VRD-MN2BE224J	J	220k	1/8W	Carbon	AA			
R2009	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA			
R2010	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA			
R2011	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA			
R2012	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA			
R2020	VRS-CY1JF223J	J	22k	1/16W	M-Ox.	AA			
R2022	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA			
R2024	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA			
R2025	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA			
R2026	VRD-MN2BE682J	J	6.8k	1/8W	Carbon	AA			
R2027	VRD-MN2BE682J	J	6.8k	1/8W	Carbon	AA			
R2028	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA			
R2029	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2030	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2031	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2032	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA			
R2040	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA			
R2041	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA			
R2042	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2043	VRD-MN2BE333J	J	33k	1/8W	Carbon	AA			
R2044	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA			
R2045	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2046	VRD-RA2BE101J	J	100	1/8W	Carbon	AB			
R2047	VRD-MN2BE101J	J	100	1/8W	Carbon	AA			
R2048	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA			
R2060	VRD-MN2BE101J	J	100	1/8W	Carbon	AA			
R2061	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA			
R2062	VRD-MN2BE183J	J	18k	1/8W	Carbon	AA			
R2063	VRD-MN2BE222J	J	2.2k	1/8W	Carbon	AA			
R2064	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA			
R2065	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA			
R2066	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2067	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2068	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2070	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2101	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2102	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2201	VRD-MN2BE222J	J	2.2k	1/8W	Carbon	AA			
R2202	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA			
R2203	VRS-CY1JF184J	J	180k	1/16W	M-Ox.	AA			
R2211	VRD-MN2BE222J	J	2.2k	1/8W	Carbon	AA			
R2212	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA			
R2213	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA			
R2401	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2402	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2403	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2404	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA			
R2501	VRD-MN2BE103J	J	10k	1/8W	Carbon	AA			
R2503	VRD-MN2BE273J	J	27k	1/8W	Carbon	AA			
R2504	VRD-MN2BE123J	J	12k	1/8W	Carbon	AA			
R2505	VRD-MN2BE563J	J	56k	1/8W	Carbon	AA			
R2506	VRD-MN2BE563J	J	56k	1/8W	Carbon	AA			
R2507	VRD-MN2BE823J	J	82k	1/8W	Carbon	AA			
R2508	VRD-MN2BE153J	J	15k	1/8W	Carbon	AA			
R2509	VRD-MN2BE272J	J	2.7k	1/8W	Carbon	AA			
R2601	VRD-RA2BE331J	J	330	1/8W	Carbon	AA			
R3012	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA			
R3014	VRD-MN2BE104J	J	100k	1/8W	Carbon	AA			
R3015	VRD-RA2BE101J	J	100	1/8W	Carbon	AB			
R3016	VRD-MN2BE750J	J	75	1/8W	Carbon	AA			
<b>SWITCHES</b>									
S2501	QSW-K0079GEZZ	J	Power			AB			
S2502	QSW-K0079GEZZ	J	VOL-down			AB			
S2503	QSW-K0079GEZZ	J	VOL-up			AB			
S2504	QSW-K0079GEZZ	J	CH-down			AB			
S2505	QSW-K0079GEZZ	J	CH-up			AB			
<b>MISCELLANEOUS PARTS</b>									
△ RY701	RRLYU0036CEZZ	J	Relay			AM			
	or								
	RRLYU0038CEZZ					AM			
△ F701	QFS-B4023CEZZ	J	Fuse, 4A (125V)			AC			
	or								
	QFS-B4021GEZZ					AE			
FB601	RBLN-0037CEZZ	J	Ferrite Bead			AB			
FB701	RBLN-0037CEZZ	J	Ferrite Bead			AB			
FH701	QFSDH1013CEZZ	J	Fuse Holder			AC			
FH702	QFSDH1014CEZZ	J	Fuse Holder			AC			
△ P602	QPLGN0160FJZZ	J	Plug, 5-pin (K)			AD			
P651	QPLGN0361CEZZ	J	Plug, 3-pin			AB			
P701	QPLGN0207CEZZ	J	Plug, 2-pin (M)			AA			
P702	QPLGN0461CEZZ	J	Plug, 4-pin (YBN)			AB			
P703	QPLGN0269GEZZ	J	Plug, 2-pin (P)			AB			
P901	QPLGN0561CEZZ	J	Plug, 5-pin (HA)			AB			
P902	QPLGN0361CEZZ	J	Plug, 3-pin (S)			AB			
P903	QPLGN0561CEZZ	J	Plug, 5-pin (GBN)			AB			
P2401	QPLGN0561CEZZ	J	Plug, 5-pin			AB			
RMC2601	RRMCU0227CEZZ	J	Remote Receiver			AK			
	or								
	RRMCU0224CEZZ					AM			
	or								
	RRMCU0216CEZZ					AK			
	or								
	RRMCU0232CEZZ								
RDA501	PRDAR0234PEFW	R	Heat Sink, IC501			AH			
RDA604	PRDAR0233PEFW	R	Heat Sink, Q602						
RDA707	PRDAR0026PEFW	R	Heat Sink, D707			AD			
RDA751	PRDAR5072CEFW	J	Heat Sink, Q751			AC			

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK2 (25K-S100)</b>				
<b>PWB-A: DUNTK9509WEK3 (25K-S180)</b>				
<b>PWB-A: DUNTK9509WEK9 (CK25S18)</b>				
<b>MAIN UNIT (Continued)</b>				

### TUNER

**THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY  
BUT NOT INDEPENDENTLY**

△ TU51 VTUVTST6UF78/ J Tuner BD

### INTEGRATED CIRCUITS

IC101	VHiKA78S05P-1	J	KiA78S05P	AD
▲△ IC201	RH-iX2933CEZZ	J	TA1268N	AX
IC351	VHiTDA7233/-1	J	TDA7233	AF
IC352	VHiTDA7233/-1	J	TDA7233	AF
△ IC501	VHiTA8403K/-1	J	TA8403k	AL
▲△ IC701	RH-iX0758CEZZ	J	T8150	AF
△ IC702	VHiT8889A/-1	J	T8889A	AL
△ IC751	VHiKA7809Pi-1	R	KiA7809Pi	AE
IC951	VHiMM1111XF1E	M	MM1111XF	AE
IC2001	RH-iX3088CEZZ	M	I C	AU
IC2040	VHiKiA7045P-1	J	KiA7045P	AD
or				
VHiPST994C/-1				
IC2101	RH-iX2447CEN1	J	ST24C01B6	AL
IC3001	VHiCXA2074Q-1	M	CXA2074	AS

### TRANSISTORS

You can substitute "VS2SD601AR/-1" for "VS2SC2462-C-1" for  
"VS2SC2412-C-1"

Q201	VS2SC2735//1E	J	2SC2735	AC
Q301	VS2SD601AR/-1	J	2SD601	AC
Q351	VS2SD601AR/-1	J	2SD601	AC
Q352	VS2SD601AR/-1	J	2SD601	AC
Q401	VS2SD601AR/-1	J	2SD601	AC
Q402	VS2SB709AR/-1	J	2SB709	AC
or				
VS2SA1037KR-1 2SA1037				
Q403	VS2SD601AR/-1	J	2SD601	AC
Q421	VS2SB709AR/-1	J	2SB709	AC
or				
VS2SA1037KR-1 2SA1037				
Q451	VS2SD601AR/-1	J	2SD601	AC
Q601	VS2SC2655Y/-1	J	2SC2655(Y)	AE
△ IQ602	VS2SD1556//1E	J	2SD1556	AP
or				
VS2SD2539//1E J 2SD2539				
Q602 R603 R609				
COMBI-	2SD1556	27/(3W)	27/(3W)	
NATION	2SD2539	22/(3W)	22/(3W)	
Q606	VS2SC3198-Y-1	J	2SC3198(Y)	AA
△ IQ751	VS2SC1983//2	J	2SC1983	AF
Q752	VS2SC3198-Y-1	J	2SC3198(Y)	AA
Q753	VS2SA1013//1E	J	2SA1013	AD
Q2060	VS2SD601AR/-1	J	2SD601	AC
Q2201	VS2SD601AR/-1	J	2SD601	AC
Q2211	VS2SD601AR/-1	J	2SD601	AC

### DIODES

You can substitute "VHD1SS119//1" for "RH-DX0475CEZZ"

D51	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
or				
RH-EX0293CEZZ				
D52	RH-EX0673GEZZ	M	Zener Diode, 32V	AA
or				
RH-EX0701CEZZ				
D53	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
or				
RH-EX0293CEZZ				
D102	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D103	VHD1SS119//1	J	Diode	AB
D401	VHD1SS119//1	J	Diode	AB
D402	RH-EX0604GEZZ	J	Zener Diode, 3.9V	AB
D451	VHD1SS119//1	J	Diode	AB
D452	RH-EX0217CEZZ	J	Zener Diode, 15V	AB
D453	RH-EX0217CEZZ	J	Zener Diode, 15V	AB
D454	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
or				
RH-EX0293CEZZ				
D455	VHD1SS119//1	J	Diode	AB
D456	VHD1SS119//1	J	Diode	AB
D457	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA
or				
RH-EX0313CEZZ				
D470	VHD1SS119//1	J	Diode	AB
D501	RH-DX0441CEZZ	J	Diode	AC
△ D502	RH-DX0131CEZZ	J	Diode	AC
D503	RH-DX0441CEZZ	J	Diode	AC
D631	RH-EX0630GEZZ	J	Zener Diode, 9.1V	AA
or				
RH-EX0312CEZZ				
▲△ D651	RH-DX0131CEZZ	J	Diode	AC
▲△ D652	RH-EX1313CEZZ	M	Zener Diode, 9.1V	AB
▲△ D653	VHD1SS119//1	J	Diode	AB
▲△ D654	VHD1SS119//1	J	Diode	AB
△ D701	RH-DX0154CEZZ	J	Diode	AC
△ D702	RH-DX0154CEZZ	J	Diode	AC
△ D703	RH-DX0154CEZZ	J	Diode	AC
△ D704	RH-DX0154CEZZ	J	Diode	AC
△ D705	VHD1SS119//1	J	Diode	AB
△ D706	RH-EX0238CEZZ	J	Zener Diode, 75V	AC
▲△ D707	VHSS6785GLB2E	J	Si Control Rectifier	AL
△ D709	RH-DX0131CEZZ	J	Diode	AC
△ D710	RH-DX0131CEZZ	J	Diode	AC
△ D711	RH-DX0229CEZZ	J	Diode	AF
or				
RH-DX0444CEZZ				
△ D751	RH-DX0441CEZZ	J	Diode	AC
D752	RH-EX0019TAZZ	J	Zener Diode, 13V	AB
D753	DH-DX0441CEZZ	J	Diode	AC
△ D754	RH-DX0441CEZZ	J	Diode	AC
△ D755	RH-DX0441CEZZ	J	Diode	AC
△ D756	RH-DX0441CEZZ	J	Diode	AC
D757	VHD1SS119//1	J	Diode	AB
D758	RH-DX0441CEZZ	J	Diode	AC

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK2 (25K-S100)</b> <b>PWB-A: DUNTK9509WEK3 (25K-S180)</b> <b>PWB-A: DUNTK9509WEK9 (CK25S18)</b> <b>MAIN UNIT (Continued)</b>				
D760	RH-DX0441CEZZ	J	Diode	AC
D761	RH-DX0441CEZZ	J	Diode	AC
D2001	VHD1SS119//1	J	Diode	AB
<b>PACKAGED CIRCUITS</b>				
△ PR701	RMPTP0088CEZZ	M	Packaged Circuit	AF
	or		(L702: G0036ME)	
	RMPTP0026CEZZ		(L702: G0007ME)	AF
X801	RCRSB0001PEZZ	R	Crystal	AL
<b>FILTERS</b>				
CF301	RFiLC0029TAZZ	J	Filter	AD
CF401	RFiLC0013CEZZ	J	Filter	AE
CF631	RFiLA0034CEZZ	J	Filter	AD
CF2040	RFiLC0121GEZZ	J	Filter	AD
SF201	RFiLC0405CEZZ	J	SAW Filter	AH
<b>COILS</b>				
L201	VP-XF1R2K0000	J	Peaking 1.2μH	AB
L202	RCiLi0588CEZZ	J	If Coil	AF
	or			
	RCiLi0822CEZZ			
L301	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L302	RCiLi0613CEZZ	J	If Coil	AE
	or			
	RCiLi0615CEZZ			
L401	VP-XF6R8K0000	J	Peaking 6.8μH	AB
L402	VP-XF3R3K0000	J	Peaking 3.3μH	AB
L403	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L404	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L421	VP-XF680K0000	J	Peaking 68μH	AB
L601	RCiLZ0621CEZZ	J	Coil	AH
△ L701	RCiLF0025PEZZ	M	Coil(25K-S100/180)	AE
	or			
	RCiLF0029PEZZ			AH
	or			
	RCiLF0087PEZZ			
	or			
	RCiLF0235CEZZ			AK
	or			
	RCiLF0019PEZZ			AN
	or			
	RCiLF0090CEZZ			AL
△ L701	RCiLF0090CEZZ	J	Coil(CK25S18)	AL
L2040	RCiLB0159CEZZ	J	Oscillation Coil	AD
<b>TRANSFORMERS</b>				
△ T601	RTRNZ0168CEZZ	J	H-driver	AH
▲△ T602	RTRNF0019MEZZ	J	H-out	
△ T701	RTRNP0416CEZZ	J	Power(25K-S100/180)	AV
△ T701	RTRNP0516CEZZ	J	Power(CK25S18)	AV

Ref. No.	Part No.	★	Description	Code
<b>CAPACITOS</b>				
<i>[EL... Electrolytic, M-Poly... Metalized Polypro Film]</i>				
C51	VCEA0A1CW476M	J	47 16V EL.	AB
C53	VCEA0A1HW105M	J	1 50V EL.	AB
C54	VCEA0A1HW475M	J	4.7 50V EL.	AB
C55	VCEA0A1CW108M	J	1000 16V EL.	AD
C103	VCEA0A1CW228M	M	2200 16V EL.	AC
C201	VCKYMN1HB102K	J	1000p 50V Ceramic	AA
C202	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C203	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C204	VCKYMN1CY103N	J	0.01 16V Ceramic	AA
C205	VCEA0A1HW474M	J	0.47 50V EL.	AB
C206	VCEA0A1CW337M	J	330 16V EL.	AC
C207	VCKYMN1CY103N	J	0.01 16V Ceramic	AA
C208	VCEA0A1HW474M	J	0.47 50V EL.	AB
C209	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C210	VCKYMN1HB102K	J	1000p 50V Ceramic	AA
C301	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C302	VCCCCY1HH151J	J	150p 50V Ceramic	AA
C303	VCCCCY1HH390J	J	39p 50V Ceramic	AA
C307	VCCCCY1HH1R5C	J	1.5p 50V Ceramic	AD
C308	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C309	VCEA0A1CW337M	J	330 16V EL.	AC
C351	VCKYCY1HB392K	J	3900p 50V Ceramic	AA
C352	VCEA0A1CW107M	J	100 16V EL.	AC
C353	VCEA0A1CW337M	J	330 16V EL.	AC
C354	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C355	VCEA0A1CW226M	J	22 16V EL.	AB
C356	VCKYCY1HB392K	J	3900p 50V Ceramic	AA
C357	VCEA0A1CW107M	J	100 16V EL.	AC
C358	VCEA0A1CW337M	J	330 16V EL.	AC
C359	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C360	VCEA0A1CW226M	J	22 16V EL.	AB
C361	VCEA0A1CW477M	J	470 16V EL.	AC
C362	VCEA0A1CW476M	J	47 16V EL.	AB
C401	VCKYMN1HB331K	J	330p 50V Ceramic	AA
C402	VCKYMN1HB101K	J	100p 50V Ceramic	AA
C403	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C404	VCEA0A1HW106M	J	10 50V EL.	AB
C405	VCEA0A1HW335M	J	3.3 50V EL.	AB
C406	VCEA0A1HW225M	J	2.2 50V EL.	AB
C408	VCEA0A1HW106M	J	10 50V EL.	AB
C409	VCEA0A1HW105M	J	1 50V EL.	AB
C410	RC-QZA104TAYK	J	0.1 50V Mylar	AB
C411	VCEA0A1CW337M	J	330 16V EL.	AC
C412	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C413	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C414	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C421	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C422	VCEA0A1CW476M	J	47 16V EL.	AB
C451	RC-QZA104TAYK	J	0.1 50V Mylar	AB
C452	VCEA0A1HW475M	J	4.7 50V EL.	AB
C453	VCEA0A2EW226M	M	22 250V EL.	AD
C454	VCEA0A1CW226M	J	22 16V EL.	AB
C502	VCEA0A1VW108M	J	1000 35V EL.	AD
C504	VCKYPA2HB391K	J	390p 500V Ceramic	AA
C505	RC-QZA473TAYK	J	0.047 50V Mylar	AB

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK2 (25K-S100)</b>				
<b>PWB-A: DUNTK9509WEK3 (25K-S180)</b>				
<b>PWB-A: DUNTK9509WEK9 (CK25S18)</b>				
<b>MAIN UNIT (Continued)</b>				
C507	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C508	VCEA0A1VW107M	J	100 35V EL.	AC
C510	VCEA0A1VW108M	J	1000 35V EL.	AD
C511	VCFYSA1JA473J	J	0.047 63V Mylar	AC
C512	VCFYSA1JA564J	J	0.56 63V Mylar	AE
C513	VCEA0A1HW105M	J	1 50V EL.	AB
C514	VCEACA1HC105K	J	1 50V EL.	AC
C551	VCSATA1CE225K	J	2.2 16V Tantalum	AB
C552	VCEA0A1HW225M	J	2.2 50V EL.	AB
C603	RC-QZA273TAYK	J	0.027 50V Mylar	AB
C604	VCEA0A1EW227M	M	220 25V EL.	AA
▲▲ C607	VCFFPD3CA622H	J	6200p 1600V M-Poly	AE
▲▲ C608	VCFFPD3CA622H	J	6200p 1600V M.Poly	AE
C612	VCFFPD2DB564J	J	0.56 200V M-Poly.	AF
C614	VCKYPA2HB331K	J	330p 500V Ceramic	AA
C631	VCEA0A1HW335M	J	3.3 50V EL.	AB
C632	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C633	VCEA0A1HW105M	J	1 50V EL.	AB
C652	VCEA0A1HW106M	J	10 50V EL.	AB
C653	VCEA0A1HW106M	J	10 50V EL.	AB
▲ C701	RC-FZ017SCEZZ	J	0.22 AC250V Plastic	AD
	or			
	RC-FZ012SGEZZ			AE
C702	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
	or			
	VCKYPB2HE103P	0.01	500V Ceramic	
C703	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
	or			
	VCKYPB2HE103P	0.01	500V Ceramic	
C704	VCKYPA2HB472K	J	4700p 500V Ceramic	AB
▲ C705	RC-EZ0720CEZZ	M	680 200V EL.	
	or			
	RC-EZ0684CEZZ			
	or			
	RC-EZ0656CEZZ			
	or			
	RC-EZ0394CEZZ			AP
▲ C706	RC-KZ0092GEZZ	J	0.0033 AC250V Ceramic	AC
	or			
	RC-KZ0311CEZZ			AD
C707	VCKYPA2HB272K	J	2700p 500V Ceramic	AA
C708	VCKYPA2HB391K	J	390p 500V Ceramic	AA
C709	RC-QZ0010CEZZ	J	0.01 250V Ceramic	AC
▲ C713	RC-EZ0696CEZZ	M	220 160V EL.	
C714	RC-QZA273TAYK	J	0.027 50V Mylar	AB
▲▲ C715	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C717	VCEA0A1HW106M	J	10 50V EL.	AB
C721	VCEA0A1EW477M	J	470 25V EL.	AD
C722	VCKYPA2HB152K	J	1500p 500V Ceramic	AA
C751	VCEA0A1EW476M	J	47 25V EL.	AB
C753	VCEA0A1VW337M	J	330 35V EL.	AD
C754	VCEA0A1CW107M	J	100 16V EL.	AC
C756	VCEA0A1CW337M	J	330 16V EL.	AC

Ref. No.	Part No.	★	Description	Code
C801	RC-QZA223TAYK	J	0.022 50V Mylar	AB
C802	VCEA0A1HW474M	J	0.47 50V EL.	AB
C803	VCCCCY1HH110J	J	11p 50V Ceramic	AA
C804	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C805	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C806	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C807	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C808	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C908	VCEA0A1HW225M	J	2.2 50V EL.	AB
C909	VCEA0A1HW225M	J	2.2 50V EL.	AB
C951	VCEA0A1HW106M	J	10 50V EL.	AB
C952	VCEA0A1HW106M	J	10 50V EL.	AB
C953	VCEA0A1HW106M	J	10 50V EL.	AB
C954	VCKYCY1HF103Z	J	0.01 50V Ceramic	
C2001	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C2002	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C2040	VCEA0A1AW107M	J	100 10V EL.	AB
C2041	VCEA0A1HW105M	J	1 50V EL.	AB
C2060	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C2061	VCKYMN1HB101K	J	100p 50V Ceramic	AA
C2062	VCEA0A1AW107M	J	100 10V EL.	AB
C2201	VCKYCY1HB472K	J	4700p 50V Ceramic	AA
C2211	VCCCCY1HH390J	J	39p 50V Ceramic	AA
C2601	VCEA0A1HW475M	J	4.7 50V EL.	AB
C2602	VCKYMN1HB101K	J	100p 50V Ceramic	AA
C3001	VCE9GA1HW475M	J	47 50V EL. (N.P)	AB
C3002	VCKYCY1HB562K	J	5600p 50V Ceramic	AA
C3003	RC-QZA123TAYK	J	0.012 50V Mylar	AB
C3004	VCEA0A1HW105M	J	1 50V EL.	AB
C3005	VCEA0A1HW475M	J	4.7 50V EL.	AB
C3006	VCEA0A1HW106M	J	10 50V EL.	AB
C3007	VCEA0A1HW475M	J	4.7 50V EL.	AB
C3008	VCKYMN1CY103N	J	0.01 16V Ceramic	AA
C3009	VCEA0A1CW227M	J	220 16V EL.	AC
C3010	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C3011	VCEA0A1HW475M	J	4.7 50V EL.	AB
C3012	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C3013	VCKYCY1HB272K	J	2700p 50V Ceramic	AA
C3014	RC-QZA473TAYK	J	0.047 50V Mylar	AB
C3015	VCSATA1CE335K	J	3.3 16V Tantalum	AC
C3016	VCE9GA1HW475M	J	4.7 50V EL. (N.P)	AB
C3017	VCSATA1CE106K	J	100 16V Tantalum	AD
C3018	VCEA0A1HW105M	J	1 50V EL.	AB
C3019	VCEA0A1HW475M	J	47 50V EL.	AB
C3020	VCEA0A1HW475M	J	4.7 50V EL.	AB
C3021	VCEA0A1HW475M	J	4.7 50V EL.	AB
C3022	VCEA0A1HW475M	J	4.7 50V EL.	AB

## RESISTORS

[M-Ox... Metal Oxide., M-Film... Metal Film]

RJ1	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ2	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ3	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ5	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ7	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
RJ12	VRD-MN2BE000J	J	0 1/8W Carbon	AA
RJ13	VRD-MN2BE000J	J	0 1/8W Carbon	AA



Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK2 (25K-S100)</b>				
<b>PWB-A: DUNTK9509WEK3 (25K-S180)</b>				
<b>PWB-A: DUNTK9509WEK9 (CK25S18)</b>				
<b>MAIN UNIT (Continued)</b>				
RJ14	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ15	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ16	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ17	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ18	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ19	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ20	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ21	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ26	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ27	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ28	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ30	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ32	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ38	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ39	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ40	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ41	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ43	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ45	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ47	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ48	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ50	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ52	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ53	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ54	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ56	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ59	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ60	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ62	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ63	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ65	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ66	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ68	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ69	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ73	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ75	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ76	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ77	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ79	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ82	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ83	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ87	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ88	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ90	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ91	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ94	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ95	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ96	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ97	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ99	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ100	VRD-MN2BE000J	J 0	1/8W Carbon	AA
RJ107	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
RJ108	VRD-MN2BE000J	J 0	1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
△ 51	VRS-RG3AB391J	M 390	1W M-Ox.	AA
△ R52	VRS-RG3AB470J	J 47	1W M-Ox.	AA
△ R53	VRS-RG3LB333J	J 33k	3W M-Ox.	AC
R54	VRD-MN2BE101J	J 100	1/8W Carbon	AA
R55	VRD-MN2BE101J	J 100	1/8W Carbon	AA
R56	VRD-MN2BE823J	J 82k	1/8W Carbon	AA
R57	VRD-MN2BE392J	J 3.9k	1/8W Carbon	AA
R201	VRD-MN2BE151J	J 150	1/8W Carbon	AA
R202	VRD-MN2BE122J	J 1.2k	1/8W Carbon	AA
R203	VRD-MN2BE682J	J 6.8k	1/8W Carbon	AA
R204	VRD-MN2BE270J	J 27	1/8W Carbon	AA
R205	VRS-CY1JF331J	J 330	1/16W M-Ox.	AA
R206	VRD-RA2BE121J	J 120	1/8W Carbon	AA
R207	VRD-MN2BE4R7J	J 4.7	1/8W Carbon	AA
R208	VRD-MN2BE331J	J 330	1/8W Carbon	AA
R301	VRD-RA2BE222J	J 2.2k	1/8W Carbon	AA
R302	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R303	VRD-MN2BE103J	J 10k	1/8W Carbon	AA
R304	VRD-MN2BE333J	J 33k	1/8W Carbon	AA
R305	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R306	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA
R351	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA
R352	VRD-MN2BE472J	J 4.7k	1/8W Carbon	AA
R353	VRD-MN2BE4R7J	J 4.7	1/8W Carbon	AA
R354	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA
R356	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA
R357	VRD-MN2BE4R7J	J 4.7	1/8W Carbon	AA
R358	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA
R359	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA
R401	VRD-MN2BE682J	J 6.8k	1/8W Carbon	AA
R402	VRS-CY1JF331J	J 330	1/16W M-Ox.	AA
R403	VRS-CY1JF391J	J 390	1/16W M-Ox.	AA
R404	VRD-MN2BE102J	J 1k	1/8W Carbon	AA
R405	VRS-CY1JF470J	J 47	1/16W M-Ox.	AA
R406	VRS-CY1JF680J	J 68	1/16W M-Ox.	AA
R407	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R408	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R409	VRD-MN2BE562J	J 5.6k	1/8W Carbon	AA
R410	VRD-RA2BE124J	J 120k	1/8W Carbon	AA
R411	VRD-MN2BE153J	J 15k	1/8W Carbon	AA
R412	VRD-RA2BE561J	J 560	1/8W Carbon	AA
R413	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R414	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R415	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R421	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA
R422	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA
R423	VRS-CY1JF152J	J 1.5k	1/16W M-Ox.	AA
R424	VRD-MN2BE102J	J 1k	1/8W Carbon	AA
△ R451	VRS-RG2HC103J	J 10k	1/2W M-Ox.	AA
R452	VRD-MN2BE103J	J 10k	1/8W Carbon	AA
R453	VRD-RA2EE393J	J 39k	1/4W Carbon	AA
R454	VRD-RM2HD104J	J 100k	1/2W Carbon	AA
R455	VRD-RA2BE152J	J 1.5k	1/8W Carbon	AA
R456	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R457	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
△ R458	VRS-RG3DB332J	M 3.3k	2W M-Ox.	AA
R459	VRD-MN2BE102J	J 1k	1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK2 (25K-S100)</b>				
<b>PWB-A: DUNTK9509WEK3 (25K-S180)</b>				
<b>PWB-A: DUNTK9509WEK9 (CK25S18)</b>				
<b>MAIN UNIT (Continued)</b>				
R466	VRN-RL3AB2R7J	M 2.7	1W M-Film	AA
△ R467	VRN-RL3ABR56J	J 0.56	1W M-Film	AA
△ R468	VRN-RL3AB4R7J	J 4.7	1W M-Film	AB
R501	VRD-RA2BE124G	J 120k	1/8W Carbon	AA
R502	VRD-RA2BE104G	J 100k	1/8W Carbon	AA
R503	VRD-RA2BE473J	J 47k	1/8W Carbon	AA
R504	VRD-MN2BE471J	J 470	1/8W Carbon	AA
R505	VRD-MN2BE101J	J 100	1/8W Carbon	AA
R510	VRN-RL3AB1R0J	M 1	1W M-Film	AA
△ R511	VRN-RL3ABR56J	J 0.56	1W M-Film	AA
R512	VRS-RG3AB391J	M 390	1W M-Ox.	AA
R516	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA
R518	VRD-MN2BE184J	J 180k	1/8W Carbon	AA
R521	VRD-RA2BE123G	J 12k	1/8W Carbon	AA
R551	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA
R552	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R553	VRD-MN2BE223J	J 22k	1/8W Carbon	AA
R554	VRD-MN2BE184J	J 180k	1/8W Carbon	AA
R601	VRD-MN2BE331J	J 330	1/8W Carbon	AA
R602	VRD-RM2HD560J	J 56	1/2W Carbon	AA
△ R603	VRS-RG3LB270J	M 27	3W M-Ox.	AA
△ R604	VRN-RL3LBR56J	M 0.56	3W M-Film	AA
R605	VRS-RG2HC102J	J 1k	1/2W M-Ox.	AA
R606	VRD-MN2BE102J	J 1k	1/8W Carbon	AA
R608	VRD-MN2BE101J	J 100	1/8W Carbon	AA
△ R609	VRS-RG3LB270J	M 27	3W M-Ox.	AA
△ R610	VRN-RL3LBR56J	M 0.56	3W M-Film	AA
R611	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA
R631	VRS-CY1JF391J	J 390	1/16W M-Ox.	AA
R632	VRD-MN2BE152J	J 1.5k	1/8W Carbon	AA
R633	VRS-CY1JF472J	J 4.7k	1/16W M-Ox.	AA
R634	VRD-RM2HD101J	J 100	1/2W Carbon	AA
▲△ R651	VRS-RG2HC270J	M 27	1/2W M-Ox.	AA
▲△ R652	VRD-MN2BE122J	J 1.2k	1/8W Carbon	AA
▲△ R653	VRN-RA2BK822F	J 8.2k	1/8W M-Film	AA
▲△ R654	VRN-RA2BK682F	J 6.8k	1/8W M-Film	AA
▲△ R655	VRS-CY1JF104J	J 100k	1/16W M-Ox.	AA
△ R701	VRC-UA2HG275K	J 2.7M	1/2W Solid	AA
(25K-S100/180)				
△ R701	VRC-UB2HG275K	J 2.7M	1/2W Solid	AA
(CK25S18)				
△ R702	VRW-KQ3NC1R2K	J 1.2	7W Cement	AE
R704	VRD-RM2HD223J	J 22k	1/2W Carbon	AA
R705	VRD-RM2HD223J	J 22k	1/2W Carbon	AA
△ R706	VRS-RG2HC151J	J 150	1/2W M-Ox.	AA
△ R707	VRS-KA3NG331K	M 330	7W M-Ox.	AC
△ R708	VRD-RM2HD330J	J 33	1/2W Carbon	AA
△ R711	VRN-GA2EB1R0J	J 1	1/4W M-Film	AA
R712	VRD-RA2BE822J	J 8.2k	1/8W Carbon	AA
R713	VRD-RM2HD681J	J 680	1/2W Carbon	AA
△ R714	VRS-KA3NG3R3K	J 3.3	7W M-Ox.	AD
△ R715	VRW-KQ4AC2R7K	J 2.7	10W Cement	AE
R716	VRD-RM2HD223J	J 22k	1/2W Carbon	AA

Ref. No.	Part No.	★	Description	Code
△ R717	VRN-GA2EB1R0J	J 1	1/4W M-Film	AA
△ R718	VRS-RG3AB120J	M 12	1W M-Ox.	AA
△ R719	VRN-RL3DBR56J	M 0.56	2W M-Film	AA
R751	VRD-RM2HD471J	J 470	1/2W Carbon	AA
R752	VRD-MN2BE392J	J 3.9k	1/8W Carbon	AA
R754	VRD-MN2BE223J	J 22k	1/8W Carbon	AA
△ R755	VRS-RG3DB270J	J 27	2W M-Ox.	AC
R757	VRD-MN2BE472J	J 4.7k	1/8W Carbon	AA
R760	VRS-RG3AB150J	M 15	1W M-Ox.	AA
△ R761	VRD-RM2HD5R6J	J 5.6	1/2W Carbon	AA
R801	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA
R802	VRD-MN2BE332J	J 3.3k	1/8W Carbon	AA
R803	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R804	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R805	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R806	VRD-MN2BE333J	J 33k	1/8W Carbon	AA
R807	VRS-CY1JF182J	J 1.8k	1/16W M-Ox.	AA
R808	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R924	VRD-MN2BE750J	J 75	1/8W Carbon	AA
R925	VRD-MN2BE104J	J 100k	1/8W Carbon	AA
R926	VRD-MN2BE104J	J 100k	1/8W Carbon	AA
R951	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R961	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R962	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R2001	VRD-RA2BE102J	J 1k	1/8W Carbon	AA
R2002	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2004	VRD-MN2BE473J	J 47k	1/8W Carbon	AA
R2006	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2007	VRS-CY1JF000J	J 0	1/16W M-Ox.	AA
R2008	VRD-MN2BE224J	J 220k	1/8W Carbon	AA
R2009	VRD-RA2BE102J	J 1k	1/8W Carbon	AA
R2010	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2011	VRD-RA2BE102J	J 1k	1/8W Carbon	AA
R2012	VRS-CY1JF471J	J 470	1/16W M-Ox.	AA
R2020	VRS-CY1JF223J	J 22k	1/16W M-Ox.	AA
R2022	VRD-RA2BE103J	J 10k	1/8W Carbon	AA
R2024	VRD-RA2BE682J	J 6.8k	1/8W Carbon	AA
R2025	VRD-RA2BE682J	J 6.8k	1/8W Carbon	AA
R2026	VRD-MN2BE682J	J 6.8k	1/8W Carbon	AA
R2027	VRD-MN2BE682J	J 6.8k	1/8W Carbon	AA
R2028	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2029	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2030	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2031	VRS-CY1JF103J	J 10k	1/16W M-Ox.	AA
R2032	VRD-RA2BE103J	J 10k	1/8W Carbon	AA
R2040	VRS-CY1JF102J	J 1k	1/16W M-Ox.	AA
R2041	VRS-CY1JF333J	J 33k	1/16W M-Ox.	AA
R2042	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R2043	VRD-MN2BE333J	J 33k	1/8W Carbon	AA
R2044	VRS-CY1JF682J	J 6.8k	1/16W M-Ox.	AA
R2045	VRS-CY1JF101J	J 100	1/16W M-Ox.	AA
R2046	VRD-RA2BE101J	J 100	1/8W Carbon	AB
R2047	VRD-MN2BE101J	J 100	1/8W Carbon	AA
R2048	VRS-CY1JF562J	J 5.6k	1/16W M-Ox.	AA
R2060	VRD-MN2BE101J	J 100	1/8W Carbon	AA
R2061	VRS-CY1JF562J	J 5.6k	1/16W M-Ox.	AA
R2062	VRD-MN2BE183J	J 18k	1/8W Carbon	AA



Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTK9509WEK2 (25K-S100)</b>				
<b>PWB-A: DUNTK9509WEK3 (25K-S180)</b>				
<b>PWB-A: DUNTK9509WEK9 (CK25S18)</b>				
<b>MAIN UNIT (Continued)</b>				
R2063	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R2064	VRD-RA2BE332J	J	3.3k 1/8W Carbon	AA
R2065	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R2067	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R2068	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R2070	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R2071	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R2101	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R2102	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R2201	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R2202	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R2203	VRS-CY1JF184J	J	180k 1/16W M-Ox.	AA
R2211	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R2212	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
R2213	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA
R2401	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R2402	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R2403	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R2404	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R2501	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R2503	VRD-MN2BE273J	J	27k 1/8W Carbon	AA
R2504	VRD-MN2BE123J	J	12k 1/8W Carbon	AA
R2505	VRD-MN2BE563J	J	56k 1/8W Carbon	AA
R2506	VRD-MN2BE563J	J	56k 1/8W Carbon	AA
R2507	VRD-MN2BE823J	J	82k 1/8W Carbon	AA
R2508	VRD-MN2BE153J	J	15k 1/8W Carbon	AA
R2509	VRD-MN2BE272J	J	2 7k 1/8W Carbon	AA
R2601	VRD-RA2BE331J	J	330 1/8W Carbon	AA
R3001	VRD-RA2BE221J	J	220 1/8W Carbon	AA
R3002	VRD-RA2BE221J	J	220 1/8W Carbon	AA
R3003	VRS-CY1JF105J	J	1M 1/16W M-Ox.	AA
R3004	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA
R3005	VRS-CY1JF623J	J	62k 1/16W M-Ox.	AA
R3007	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
R3008	VRS-CY1JF302J	J	3k 1/16W M-Ox.	AA
R3010	VRD-MN2BE392J	J	3.9k 1/8W Carbon	AA
R3011	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R3012	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R3013	VRD-MN2BE104J	J	100k 1/8W Carbon	AA
R3014	VRD-MN2BE104J	J	100k 1/8W Carbon	AA
R3015	VRD-RA2BE101J	J	100 1/8W Carbon	AB
R3016	VRD-MN2BE750J	J	75 1/8W Carbon	AA
R3017	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R3018	VRD-RA2BE102J	J	1k 1/8W Carbon	AA

**SWITCHES**

S2501	QSW-K0079GEZZ	J	Power	AB
S2502	QSW-K0079GEZZ	J	VOL-down	AB
S2503	QSW-K0079GEZZ	J	VOL-up	AB
S2504	QSW-K0079GEZZ	J	CH-down	AB
S2505	QSW-K0079GEZZ	J	CH-up	AB

Ref. No.	Part No.	★	Description	Code
<b>MISCELLANEOUS PARTS</b>				
△ RY701	RRLYU0036CEZZ	J	Relay	AM
	or			
	RRLYU0038CEZZ			AM
△ F701	QFS-B4023CEZZ	J	Fuse, 4A (125V)	AC
	or			
	QFS-B4021GEZZ			AK
FB601	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB701	RBLN-0037CEZZ	J	Ferrite Bead	AB
FH701	QFSDH1013CEZZ	J	Fuse Holder	AC
FH702	QFSDH1014CEZZ	J	Fuse Holder	AC
△ P602	QPLGN0160FJZZ	J	Plug, 5-pin(K)	AD
P651	QPLGN0361CEZZ	J	Plug, 3-pin	AB
P701	QPLGN0207CEZZ	J	Plug, 2-pin(M)	AA
P702	QPLGN0461CEZZ	J	Plug, 4-pin(YBN)	AB
P703	QPLGN0269GEZZ	J	Plug, 2-pin(P)	AB
P901	QPLGN0561CEZZ	J	Plug, 5-pin(HA)	AB
P902	QPLGN0461CEZZ	J	Plug, 4-pin(S)	
P903	QPLGN0561CEZZ	J	Plug, 5pin(GBN)	AB
P2401	QPLGN0561CEZZ	J	Plug,5-pin	AB
RMC2601	RRMCU0227CEZZ	J	Remote Receiver	AK
	or			
	RRMCU0224CEZZ			
	or			
	RRMCU0216CEZZ			
	or			
	RRMCU0232CEZZ			
RDA501	PRDAR0234PEFW	R	Heat Sink, IC501	AH
RDA604	PRDAR0233PEFW	M	Heat Sink, Q602	AE
RDA707	PRDAR0026PEFW	R	Heat Sink, D707	AD
RDA751	PRDAR5072CEFW	J	Heat Sink, Q751	AC
TAN921	QTANJ0323CEZZ	M	AV Terminal	AF

Ref. No.	Part No.	★	Description	Code
<b>PWB: DUNTK9510WEK0</b>				
<b>CRT UNIT</b>				
<b>TRANSISTORS</b>				
Q851	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
Q852	VS2SC3789//2E	M	2SC3798	
	or			
	VS2SC3619LB1E		2SC3619	
Q853	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
Q854	VS2SC3789//2E	J	2SC3789	
	or			
	VS2SC3619LB1E		2SC3619	
Q855	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
Q856	VS2SC3789//2E	J	2SC3789	
	or			
	VS2SC3619LB1E		2SC3619	
Q881	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
<b>DIODES</b>				
You can substitute "VHD1SS119//-1" for "RH-DX0475CEZZ"				
D881	VHD1SS119//-1	J	Diode	AB
D882	VHD1SS119//-1	J	Diode	AB
D884	VHD1SS119//-1	J	Diode	AB
<b>COIL</b>				
L851	VP-MK820K0000	J	Peaking 82μH	AB
<b>CAPACITORS</b>				
<i>[EL.... Electrolytic]</i>				
C851	VCCSPA1HL391J	J	390p 50V Ceramic	AA
C852	VCCSPA1HL331J	J	330p 50V Ceramic	AA
C853	VCCSPA1HL391J	J	390p 50V Ceramic	AA
C854	RC-KZ0024CEZZ	J	0.001 2kV Ceramic	AC
	or			
	VCKYPB3DE472Z	J	0.0047 2kV Ceramic	
C883	VCEA0A1HW106M	J	10 50V EL.	AB
<b>RESISTORS</b>				
<i>[M-Ox.... Metal Oxide]</i>				
R851	VRD-RA2BE470J	J	47 1/8W Carbon	AA
R852	VRD-RA2BE181J	J	180 1/8W Carbon	AA
R853	VRD-RA2BE121J	J	120 1/8W Carbon	AA
R855	VRD-RA2BE471J	J	470 1/8W Carbon	AA
R856	VRD-RA2BE221J	J	220 1/8W Carbon	AA
△ R857	VRS-VV3LB123J	J	12k 3W M-Ox.	AB
R858	VRD-RM2HD222J	J	2.2k 1/2W Carbon	AA
R859	VRD-RA2BE470J	J	47 1/8W Carbon	AA
R860	VRD-RA2BE181J	J	180 1/8W Carbon	AA
R861	VRD-RA2BE121J	J	120 1/8W Carbon	AA
R863	VRD-RA2BE471J	J	470 1/8W Carbon	AA
R864	VRD-RA2BE221J	J	220 1/8W Carbon	AA
△ R865	VRS-VV3LB123J	J	12k 3W M-Ox.	AB
R866	VRD-RM2HD222J	J	2.2k 1/2W Carbon	AA
R867	VRD-RA2BE470J	J	47 1/8W Carbon	AA
R868	VRD-RA2BE181J	J	180 1/8W Carbon	AA
R869	VRD-RA2BE121J	J	120 1/8W Carbon	AA
R871	VRD-RA2BE471J	J	470 1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
R872	VRD-RA2BE221J	J	220 1/8W Carbon	AA
△ R873	VRS-VV3LB123J	J	12k 3W M-Ox.	AB
R874	VRD-RM2HD222J	J	2.2k 1/2W Carbon	AA
R881	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R882	VRD-RA2BE271J	J	270 1/8W Carbon	AA
R883	VRD-RA2BE561J	J	560 1/8W Carbon	AA
R884	VRD-RA2BE152J	J	1.5k 1/8W Carbon	AA
R895	VRD-RA2BE470J	J	47 1/8W Carbon	AA
<b>MISCELLANEOUS PARTS</b>				
P851	QPLGN0541CEZZ	J	Plug, 5-pin(GBN)	AB
P852	QPLGN0441CEZZ	J	Plug, 4-pin(YBN)	AB
SC851	QSOCV0937CEZZ	J	Socket	

Ref. No.	Part No.	★	Description	Code
<b>PWB-H: DUNTK9310WEK0 (25K-M100/180, CK25M10)</b>				
<b>PWB-H: DUNTK9310WEK1 (25K-S100/180, CK25S18)</b>				
<b>FRONT AV UNIT</b>				
J1001	QJAKE0053GEZZ	J	Jack, Video in	AD
J1002	QJAKE0055GEZZ	J	Jack, Audin in (L) (25K-S100/180, CK25S18)	AD
J1003	QJAKE0059GEZZ	J	Jack, Audin in (R)	AC
P1001	QPLGN0541CEZZ	J	Plug, 5-pin (HA)	AB

Ref. No.	Part No.	★	Description	Code
<b>SUPPLIED ACCESORRIES</b>				
	TGAN-1006MEZZ	M	Guarantee Card (U.S.A. only)	AA
	TiNS-6280MEZZ	M	Operation Manual (25K-M100)	AP
	TiNS-6281MEZZ	M	Operation Manual (25K-M180)	
	TiNS-6282MEZZ	M	Operation Manual (25K-S100)	
	TiNS-6283MEZZ	M	Operation Manual (25K-S180)	
	TiNS-6356MEZZ	M	Operation Manual (CK25M10)	
	TiNS-6357MEZZ	M	Operation Manual (CK25S10)	
	RRMCG1324CESA	M	Infrared R-C (25K-M100, CK25M10)	AT
	RRMCG1324CESA	M	Infrared R-C (25K-S100)	AT
	RRMCG1395CESA	M	Infrared R-C (25K-M180)	AW
	RRMCG1395CESA	M	Infrared R-C (25K-S180, CK25S18)	AW

## MISCELLANEOUS PARTS

△ ACC701	QACCD3036CESA	J	AC Cord (25K-M100/180, CK25M10)	
△ ACC701	QACCD3049CEAS	J	AC Cord (25K-S100/180, CK25S18)	
	QCNW-0133MEZZ	M	Connecting Cord (25K-M100/180, CK25M10)	AC
	QCNW-0134MEZ	M	Connecting Cord (25K-S100/180, CK25S18)	
	QCNW-0135MEZZ	M	Connecting Cord	AF
	QCNW-0166MEZZ	M	Connecting Cord	AD
	QCNW-0167MEZZ	M	Connecting Cord	AC
	VSP0080PBK98A	J	Speaker	

## PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC0565MEZZ	—	Packing Case	—
SPAKX0162MEZZ	—	Buffer Material	—
SSAKA0004MEZZ	—	Polyethylene Sack	—

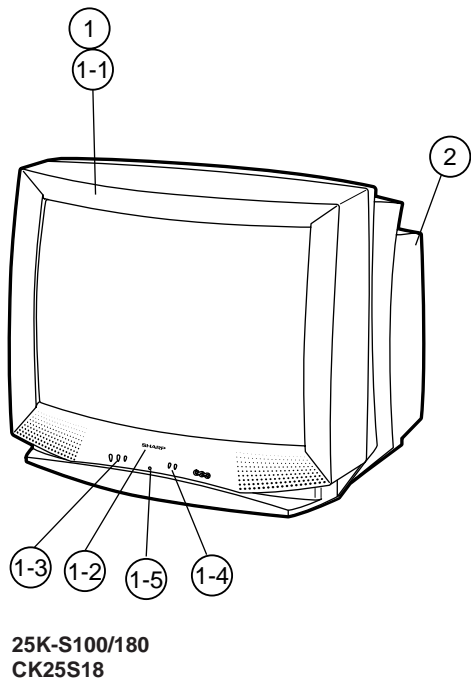
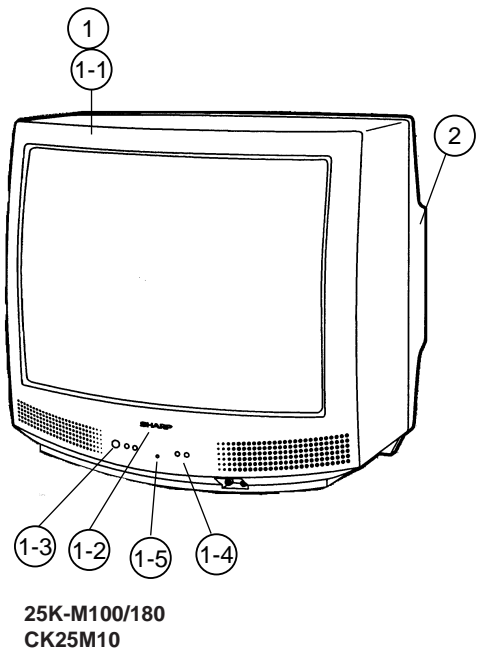
Ref. No.	Part No.	★	Description	Code
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CABINET PARTS

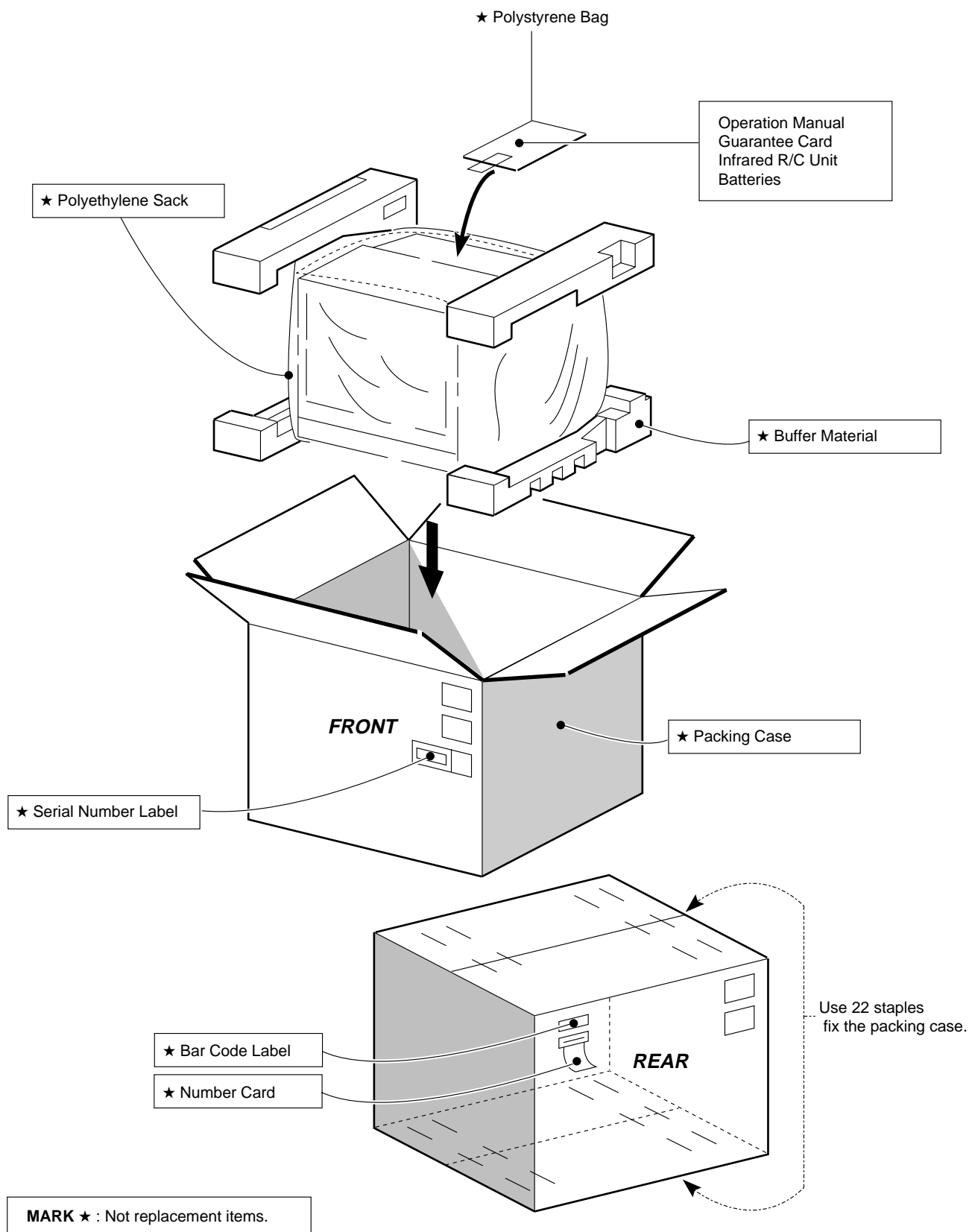
<b>25K-M100,CK25M10</b>				
1	CCABA1277MES0	M	Cabinet Ass'y, Front	BF
1-1	<i>Not Available</i>	—	Front Cabinet	—
1-2	HBDGB1008MESA	M	Badge, "SHARP"	AA
1-3	JBTN-1086MEKA	M	Button, Power, Vol-up/down	AD
1-4	JBTN-1087MEKA	M	Button, CH-up/down	AD
1-5	GCOVA1028MEKA	M	Cover for R/C	AD
2	GCABB1123MEKA	M	Rear Cabinet	AZ
<b>25K-M180</b>				
1	CCABA1297MES0	M	Cabinet Ass'y, Front	BF
1-1	<i>Not Available</i>	—	Front Cabinet	—
1-2	HBDGB1008MESA	M	Badge, "SHARP"	AA
1-3	JBTN-1086MEKA	M	Button, Power, Vol-up/down	AD
1-4	JBTN-1087MEKA	M	Button, CH-up/down	AD
1-5	GCOVA1028MEKA	M	Cover for R/C	AD
2	GCABB1123MEKA	M	Rear Cabinet	AZ
<b>25K-S100</b>				
1	CCABA1298MES0	M	Cabinet Ass'y, Front	—
1-1	<i>Not Available</i>	—	Front Cabinet	—
1-2	HBDGB3010MESA	M	Badge, "SHARP"	AA
1-3	JBTN-1103MEKA	M	Button, Power, Vol-up/down	—
1-4	JBTN-1104MEKA	M	Button, CH-up/down	—
1-5	GCOVA1038MEKA	M	Cover for R/C	—
2	GCABB1135MEKA	M	Rear Cabinet	—
<b>25K-S180, CK25S18</b>				
1	CCABA1299MES0	M	Cabinet Ass'y, Front	—
1-1	<i>Not Available</i>	—	Front Cabinet	—
1-2	HBDGB3010MESA	M	Badge, "SHARP"	AA
1-3	JBTN-1103MEKA	M	Button, Power, Vol-up/down	—
1-4	JBTN-1104MEKA	M	Button, CH-up/down	—
1-5	GCOVA1038MEKA	M	Cover for R/C	—
2	GCABB1135MEKA	M	Rear Cabinet	—

Ref. No.	Part No.	★	Description	Code
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CABINET PARTS LOCATION



## PACKING OF THE SET



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