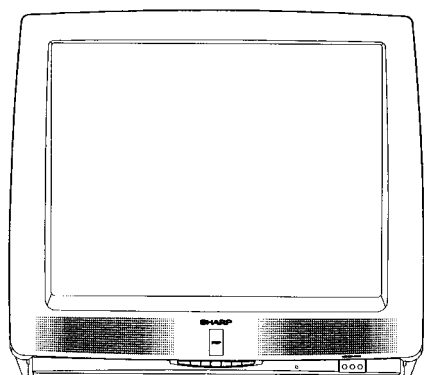


SHARP SERVICE MANUAL

S87D632J-S400



COLOR TELEVISION

Chassis No. SN-71

MODELS

32J-S400/CJ32S40
36J-S400/CJ36S40

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

ELECTRICAL SPECIFICATIONS

POWER INPUT 120V AC 60Hz

POWER RATING

32J-S400/CJ32S40 140W

36J-S400/CJ36S40 165W

PICTURE SIZE

32J-S400/CJ32S40 2,943 cm² (456 sq inch)36J-S400/CJ36S40 4,327 cm² (671 sq inch)

CONVERGENCE Magnetic

SWEEP DEFLECTION Magnetic

FOCUS Hi-Bi-Potential Electrostatic

INTERMEDIATE FREQUENCIES

Picture IF Carrier Frequency 45.75MHz

Sound IF Carrier Frequency 41.25MHz

Color Sub-Carrier Frequency 42.17MHz
(Nominal)

AUDIO POWER

OUTPUT RATING 2.5 + 2.5W (at 5% distortion)

SPEAKER

SIZE 8 cm (round)

VOICE COIL IMPEDANCE 8 ohm at 400Hz

ANTENNA INPUT IMPEDANCE

VHF/UHF 75 ohm Unbalanced

TUNING RANGES

VHF-Channels 2 thru 13

UHF-Channels 14 thru 69

CATV Channels 1 thru 125
(EIA, Channel Plan U.S.A)

Specifications are subject to change without prior notice.

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SHARP CORPORATION

This document has been published to be used for after sales service only.

The contents are subject to change without notice.

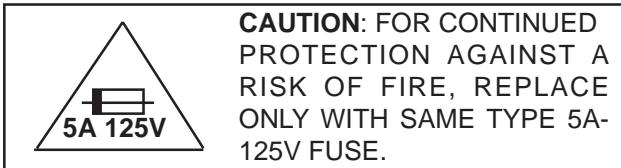
IMPORTANT SERVICE SAFETY PRECAUTION

- **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and 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 insulation 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.



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. Note that the 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 glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicepersonnel 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 that exceeds specifications.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color 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)

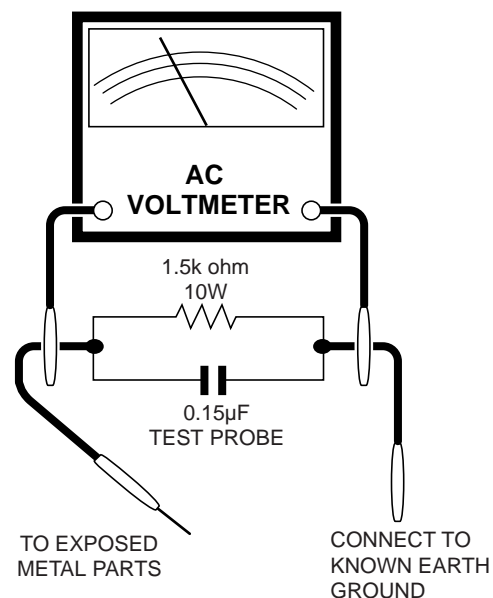
Before returning the receiver to the user, perform the following safety checks.

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 to clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ 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 check must be repeated with the AC line 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 are indicative 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 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.

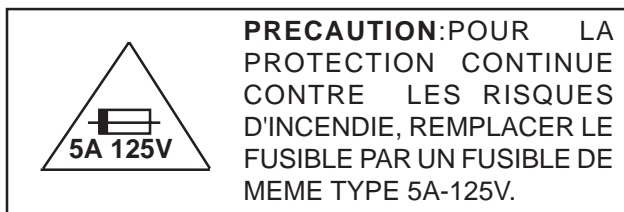
For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation 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 a deux systèmes de mise à la terre qui sont séparés par un matériau isolant. Le système de mise à la terre non-isolée (chaud) est pour le circuit du régulateur de tension B+ et le circuit de sortie horizontale. Le système de mise à la terre isolé est pour les basses tensions C. C. B+ et le circuit secondaire du transformateur de haute tension.



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 k 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. Il est à noter que le tube-image de ce récepteur est intégralement protégé 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'INCENDIE ET LE CHOC ELECTRIQUE

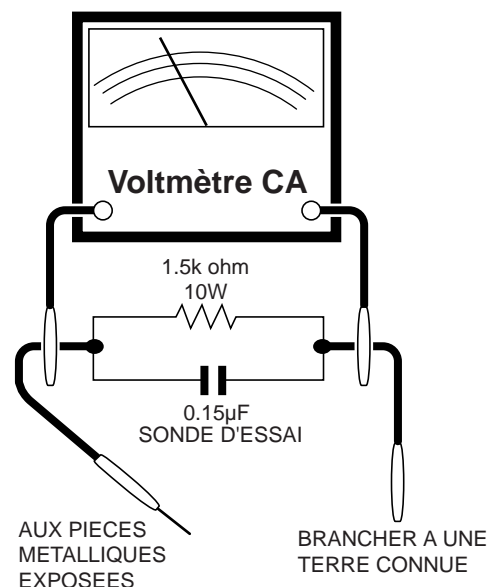
Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

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 Ω 10 watts en parallèle avec un condensateur de 0,15 μ 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 /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

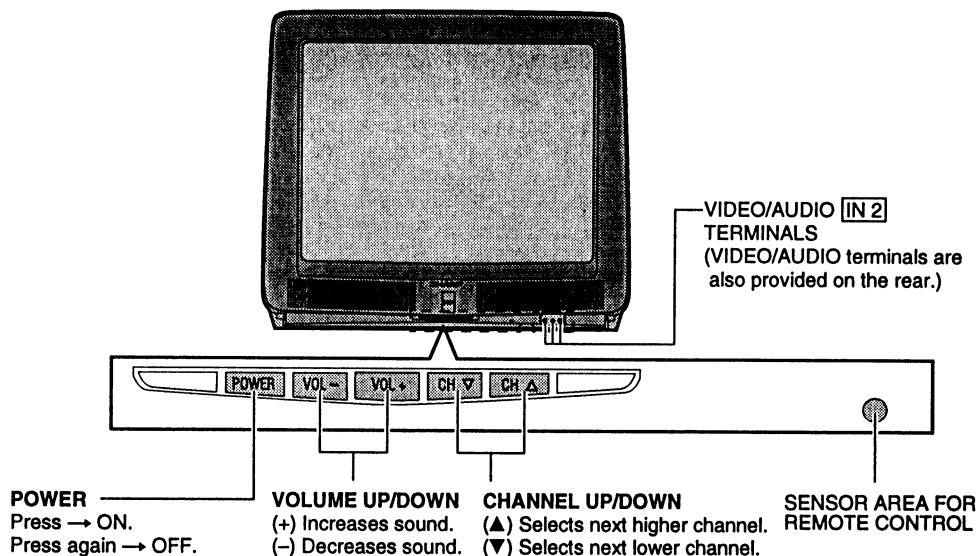
identifiées par la marque " \triangle " et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.

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.

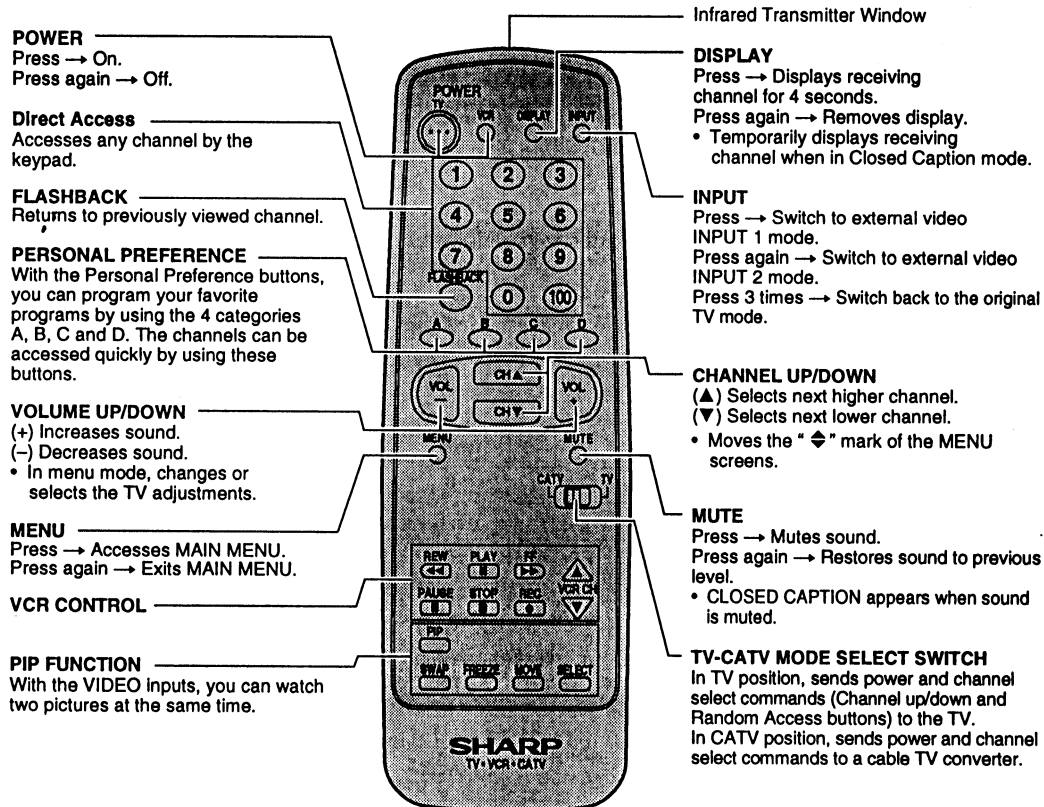
LOCATION OF USER'S CONTROL

Quick Reference Control Operation

Front Panel



BASIC REMOTE CONTROL FUNCTIONS



INSTALLATION AND SERVICE INSTRUCTIONS

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

CIRCUIT PROTECTION

The receiver is protected by a 5.0A 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, or B+ system, test the X-Radiation protector 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) Select a local channel.
- 4) Connect a digital voltmeter to TP653 and make sure that the voltmeter reads 13.8V.
- 5) Apply external 16.7V DC at TP653 by using an external DC supply, TV set 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 strong air signal or properly tuned in test signal.
3. Set to Service mode on, service No.19 and Bus data "01" (Y-mute on).
4. The voltage should be approximately 32.8kV(32J-S400/CJ32S40)/ 33.4kV (36J-S400/CJ36S40) (at zero beam).
If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off (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 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 adjust menu to ensure customer controls are in their proper (reset) position.

2. Service number selection

Once in the service mode, press the channel up or channel down button on the remote transmitter or at the set. The service adjustment number will vary in increments of one, from "S01" to "P06". Select the item you wish to adjust.

3. Data number selection

Press the VOL-UP/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 once, 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 shut the television off by pressing the power button.

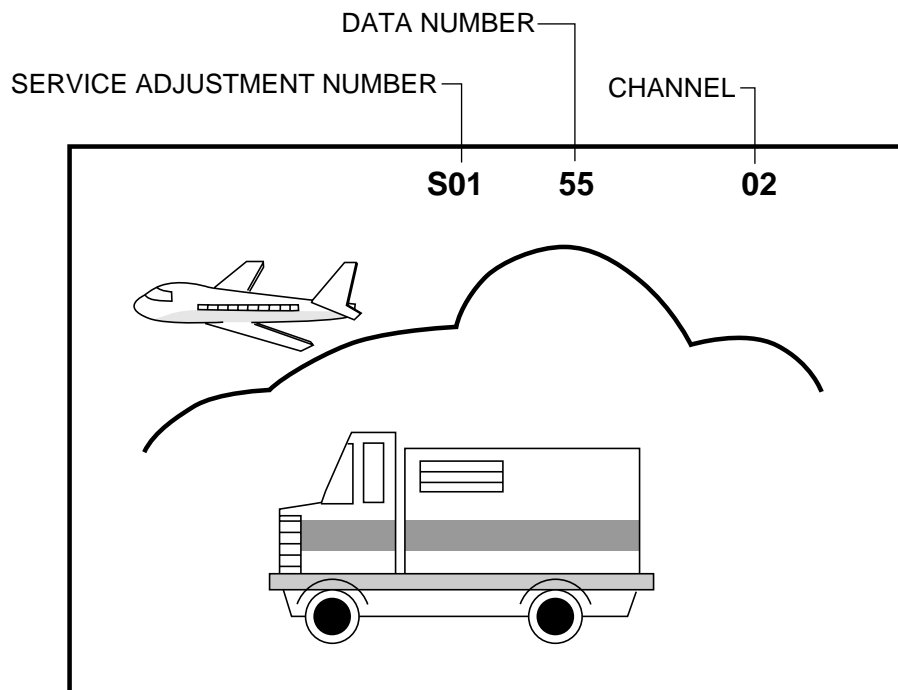


Figure A.

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	28	00-3F	
S06	VERTICAL PHASE	00	00-07	
S07	HORIZONTAL PHASE	12	00-1F	
S08	RF-AGC	2A	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	18	00-7F	
S19	Y-MUTE	00	00,01,03	
OP	OPTION(set to each Model)	7E	00-7E	"00"=NORMAL, "01"=no Y, "03"=NO VERTICAL Must be set to "7E"
M01	MTS LEVEL	0A	00-0F	Must be set to "1C"
M02	STEREO-VCO	20	00-3F	
M03	FILTER	1C	00-3F	
M04	LOW SEPARATION	20	00-3F	
M05	HIGH SEPARATION	1B	00-3F	
P01	P in P Y-LEVEL	30	00-7F	
P02	P in P TINT	1B	00-3F	
P03	P in P COLOR	29	00-7F	
P04	P in P Y-OFFSET	10	00-1F	
P05	P in P H-Position	0B	00-FF	
P06	P in P BURST GATE PULSE	09	00-7F	Must be set to "09"

Table - A

Holding down both the CH UP/DOWN keys 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		×	Data is stored in IC2101.
IC201	×		The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).
IC2101	×		Holding down both the CH UP/DOWN keys on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101. Then perform a complete adjustment.
CRT	×		Adjust items related to picture tube only.
IC3001	×		Adjust items related to MTS only (M01~M05).
IC1801	×		Adjust items related to P-IN-P only (P01~P06).

Table - B

■ SERVICE ADJUSTMENT

VCO Adjustment

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

RF AGC Adjustment

1. Have unit receive a good local channel.
2. Enter the service mode and select 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 socket PWB.
2. Select a good local channel.
3. Enter the service mode and select 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 service adjustment "S19" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
5. Select service adjustment "S04" and adjust data value to obtain 0.17 volts on the digital voltmeter.
6. Adjust the master screen control until 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 service adjustment "S19" and reset data to "00". Select service adjustment "S03" and reset data to obtain normal color level.
9. Remove digital voltmeter.
Reset master screen control to obtain normal brightness range.

White Balance Adjustment

1. Have unit receive a good local channel.
2. Enter the service mode. Select 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 service adjustment "S03" and adjust data to obtain normal color level.

Sub-picture Adjustment

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

Sub-tint Adjustment

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

Sub-color Adjustment

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

Vertical-size and Linearity adjustment

1. Have unit receive a good local channel.
2. Enter the service mode and select service adjustment "S09".
3. While observing the top and bottom of the screen, adjust "S09" data value to proper vertical size and linearity.
4. Using the R502 control, adjust for the best linearity.

Vertical phase adjustment

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

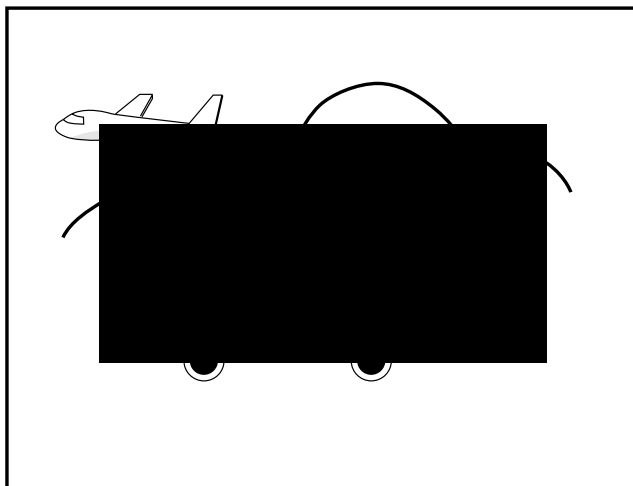


Figure B.

Caption Position Adjustment (Horizontal)

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

3.58MHz Trap Adjustment

1. Have unit receive a good local channel.
2. Enter the service mode and select 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. Have unit receive a good local channel.
2. Enter the service mode and select "S05" for sharpness and "S17" for balance.
- **Sharpness adjustment**
3. Adjust data value to "24" (center of data range) for sharpness adjustment.
- **Audio balance adjustments**
4. Adjust data value to "20" (center of data range) for Audio balance adjustment.

Vertical Center Adjustment

1. Have unit receive a good CATV channel.
2. Adjust the S502 so that the picture is centered.

Side Pincushion Adjustment

1. Have unit receive a good CATV channel or crosshatch pattern signal.
2. Adjust the R676 so that the outermost line on the screen be straight.

Horizontal Size Adjustment

1. Have unit receive a good CATV channel or crosshatch pattern signal.
2. Adjust the R678 so that the best horizontal size.

■ SERVICE ADJUSTMENT

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 should take the reading below.
Spec : 490 ; 10mVrms

Stereo 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 μ 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 should take the reading below.
Spec : 62.94 ; 0.75kHz

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 until "OK" appears in position on the screen. Make sure the "OK" is displayed almost at the center of the data range.

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.

■ P-IN-P ADJUSTMENT

P-IN-P Y Level Adjustment

1. Receive a good local channel.
2. Enter the service mode and select service adjustment "P01".
3. Adjust "P01" data value to obtain normal contrast level.

P-IN-P TINT Adjustment

1. Receive a good local channel.
2. Enter the service mode and select service adjustment "P02".
3. Adjust data value to "1B".

P-IN-P 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 "P03".
4. Adjust "P03" data value to obtain normal color level.

P-IN-P Y-OFF SET Adjustment

1. Receive a good local channel.
2. Enter the service mode and select service adjustment "P04".
3. Adjust data value to "16".

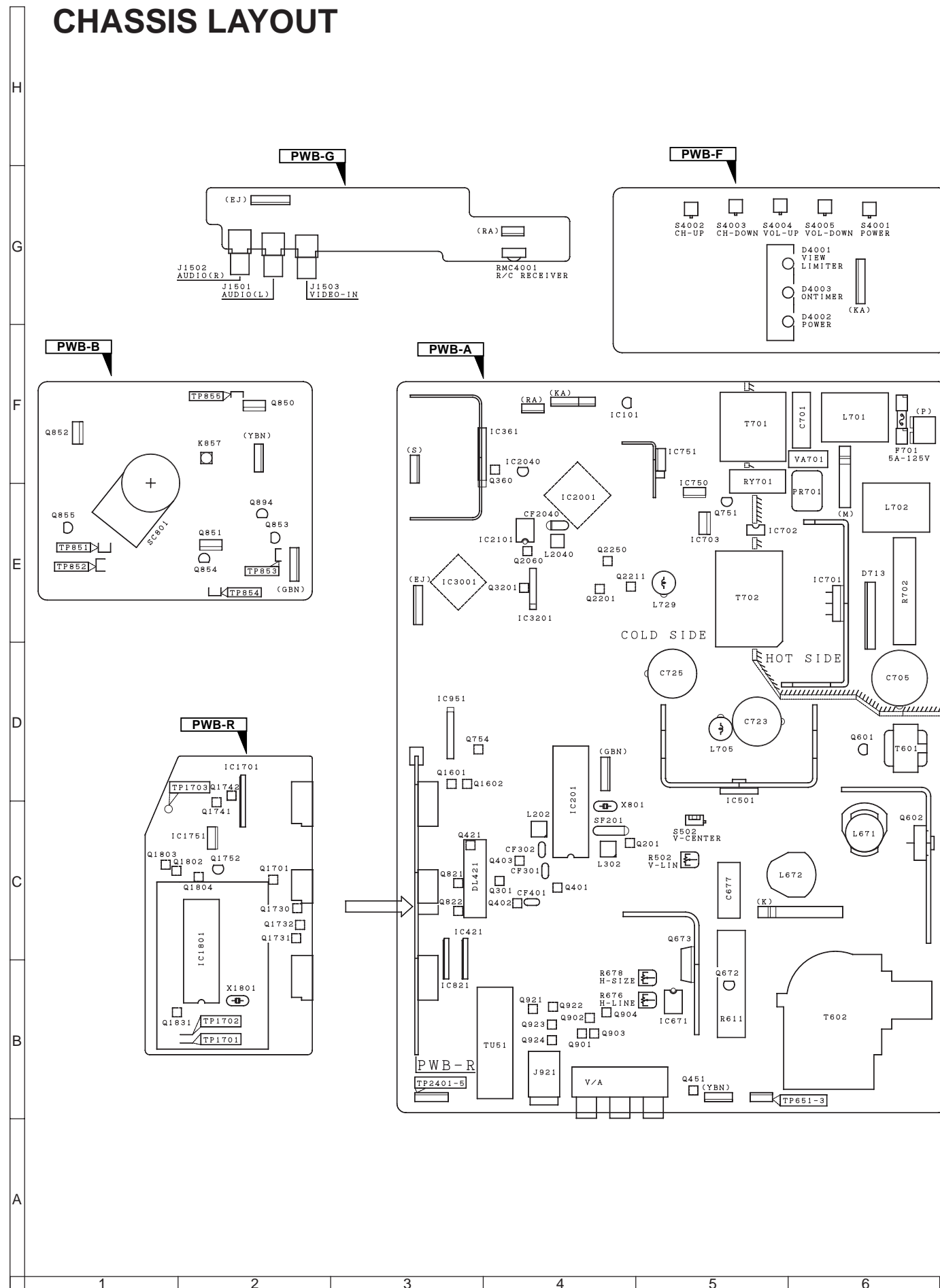
P-IN-P H-POSITION Adjustment

1. Receive a good local channel.
2. Enter the service mode and select service adjustment "P05".
3. Adjust data value to "0B".

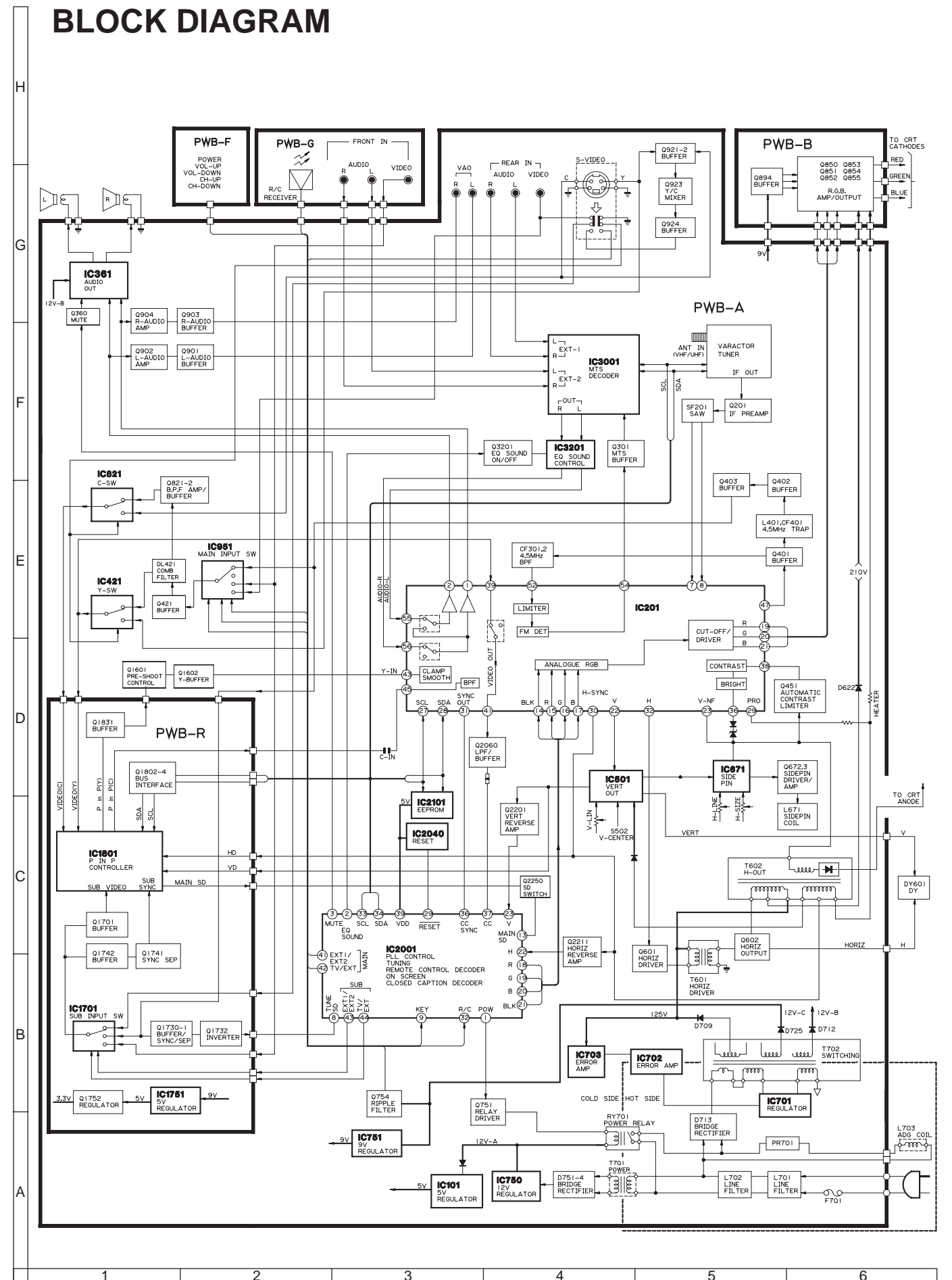
P-IN-P BURST GATE PULSE (for MAIN)

1. Receive a good local channel.
2. Enter the service mode and select service adjustment "P06".
3. Adjust data value to "09".

CHASSIS LAYOUT



BLOCK DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

NOTE:

- 1. The unit of resistance "ohm" is omitted. (K = kΩ = 1000Ω, M = MΩ).
- 2. All resistors are 1/8 watt, unless otherwise noted.
- 3. All capacitors are μF, unless otherwise noted. (P = pF = μμF)
- 4. (G) indicates ±2% tolerance may be used.
- 5. ⊥ indecates line isolated ground.
- 6. ↕ indecates hot ground.

VOLTAGE MEASUREMENT CONDITIONS:

- 1. All DC voltages are measured with VTVM connected between points indicated and chassis ground, line voltage set at 110V AC and all controls set for normal picture unless otherwise indicated.
- 2. All voltages measured with 1000μ V B & W or Color signal.

WAVEFORM MEASUREMENT CONDITIONS:

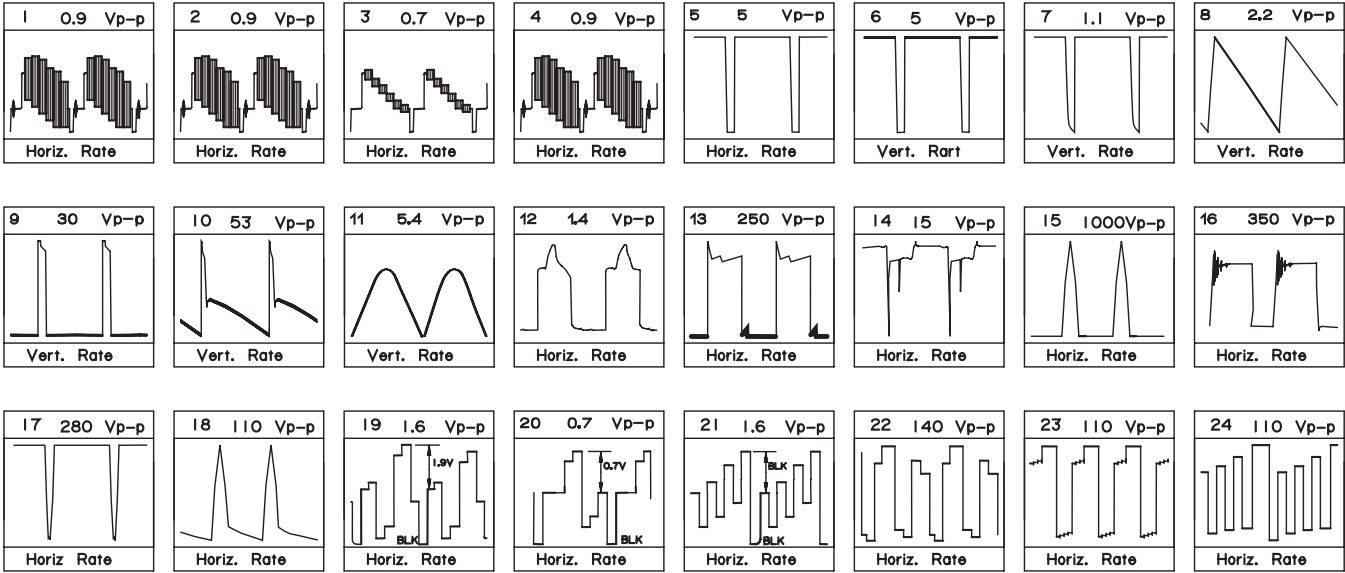
- 1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
- 2. ● indicates waveform check points (See chart, waveforms are measured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

▲ AND SHADED () COMPONENTS = SAFETY RELATED PARTS.
▲ MARK= X-RAY RELATED PARTS.

DRGANNES MARQUES ▲ ET HACHRES () : PIECES RELATIVES A LA SECURITE.
MARQUE ▲ : PIECS RELATIVE AUX RAYONS X.

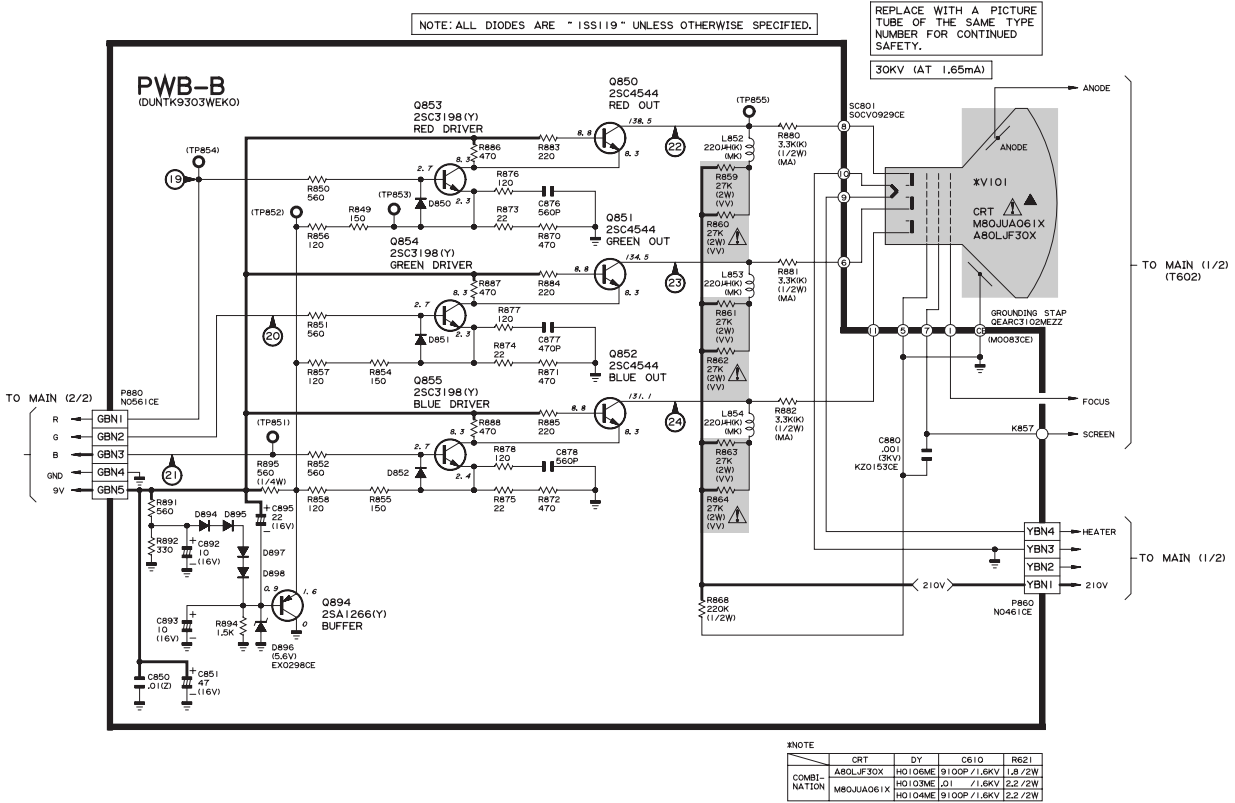
This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

WAVE FORMS

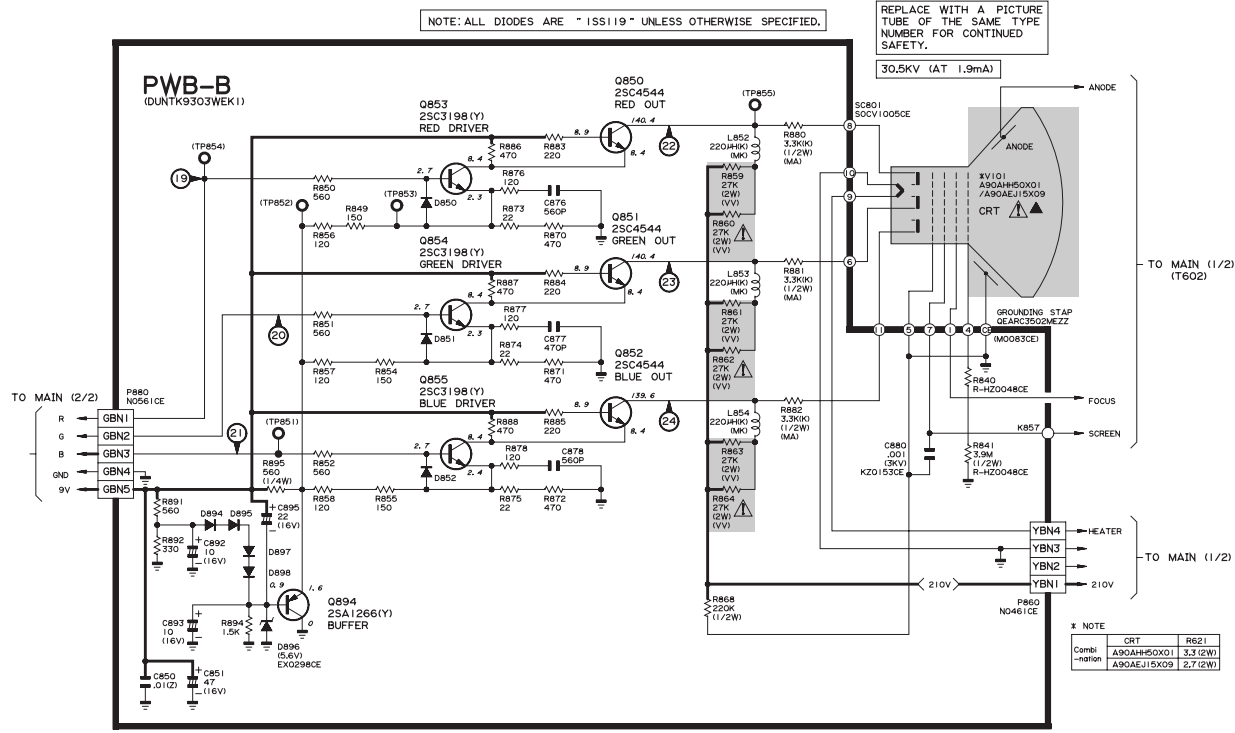


SCHEMATIC DIAGRAM : CRT Unit

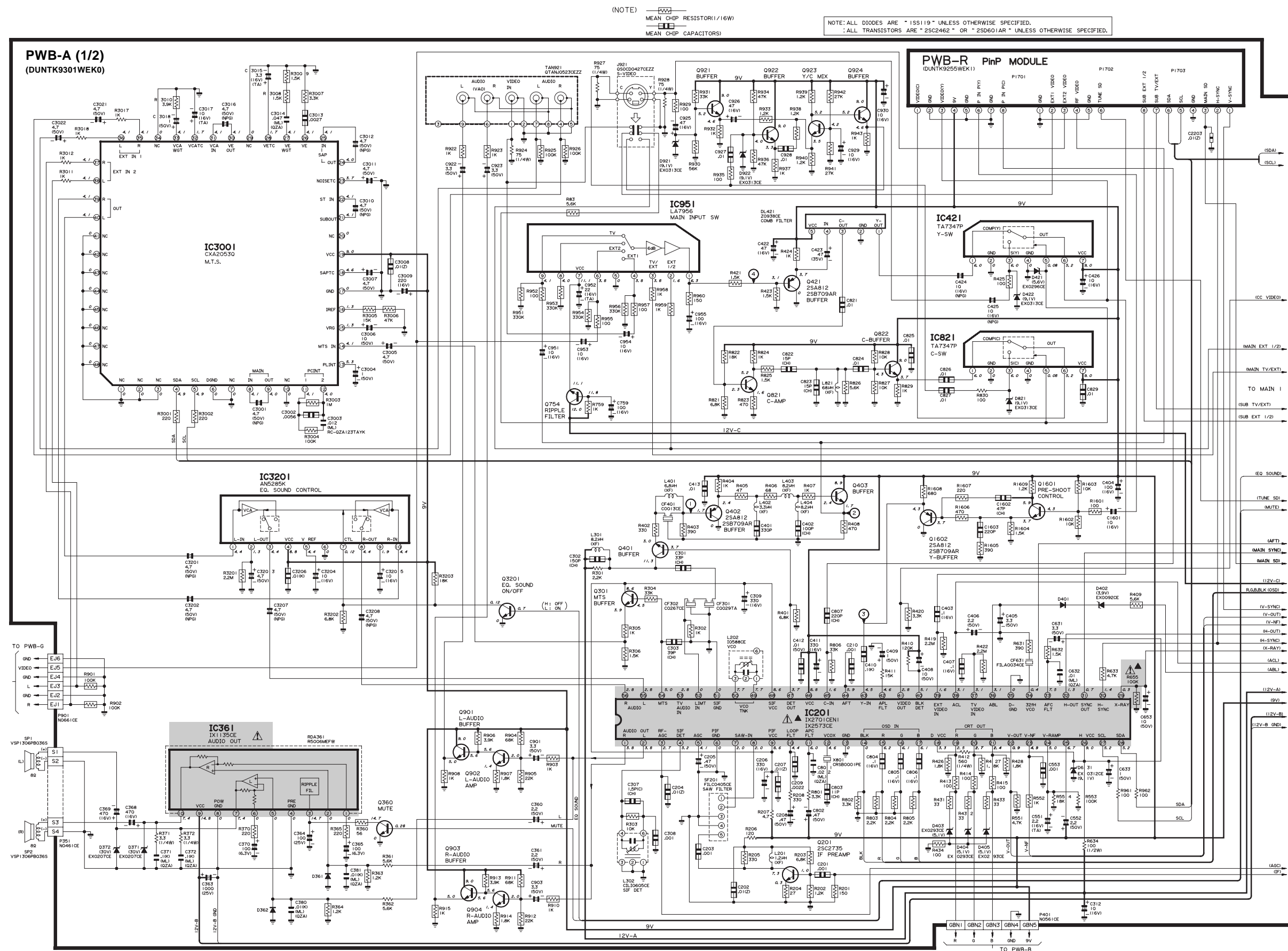
MODEL 32J-S400/CJ32S40



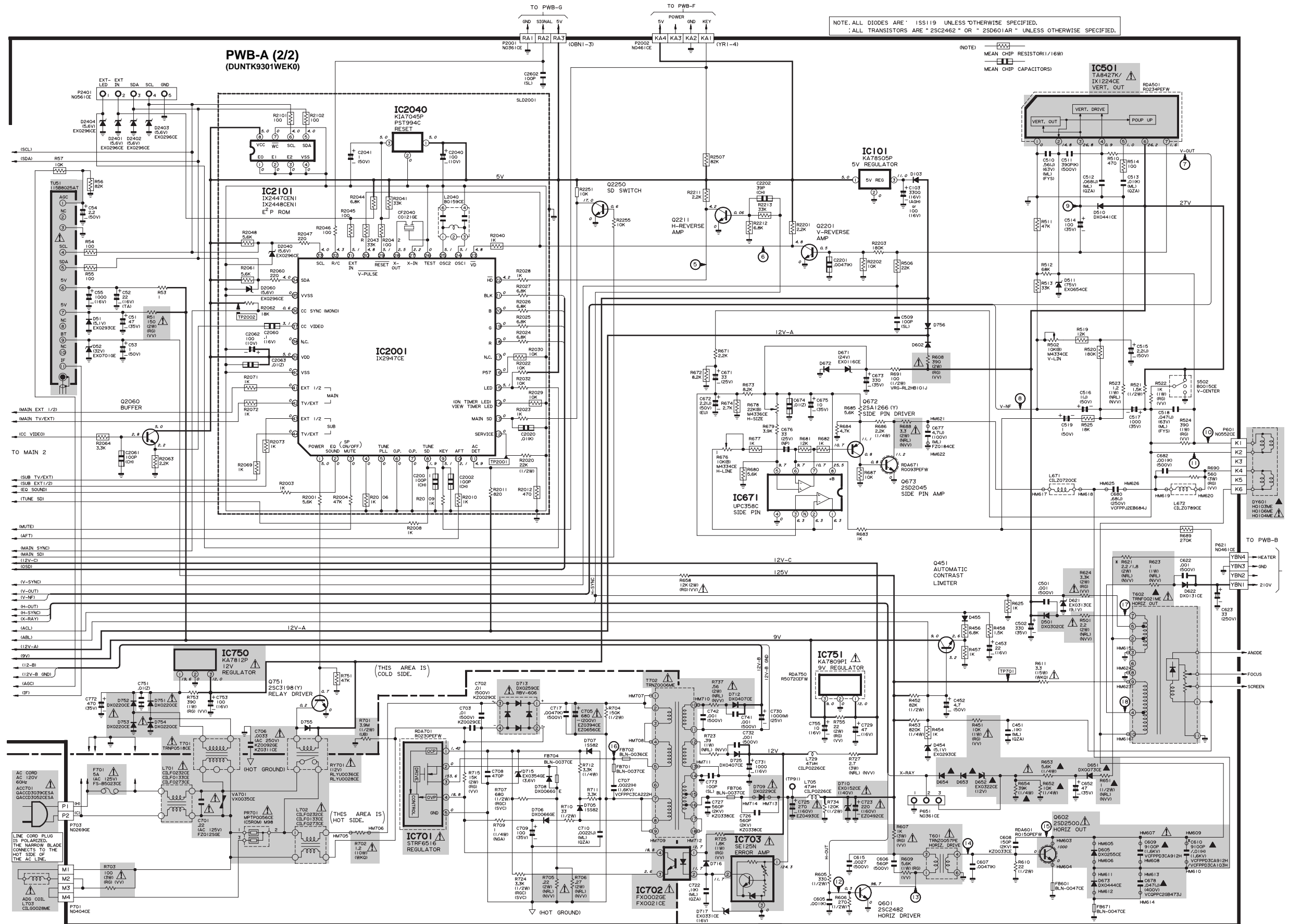
MODEL 36J-S400/CJ36S40



MODELS 32J-S400/CJ32S40 SCHEMATIC DIAGRAM : MAIN Unit-1



MODELS 32J-S400/CJ32S40 SCHEMATIC DIAGRAM : MAIN Unit-2



MODELS 36J-S400/CJ36S40 SCHEMATIC DIAGRAM : MAIN Unit-1

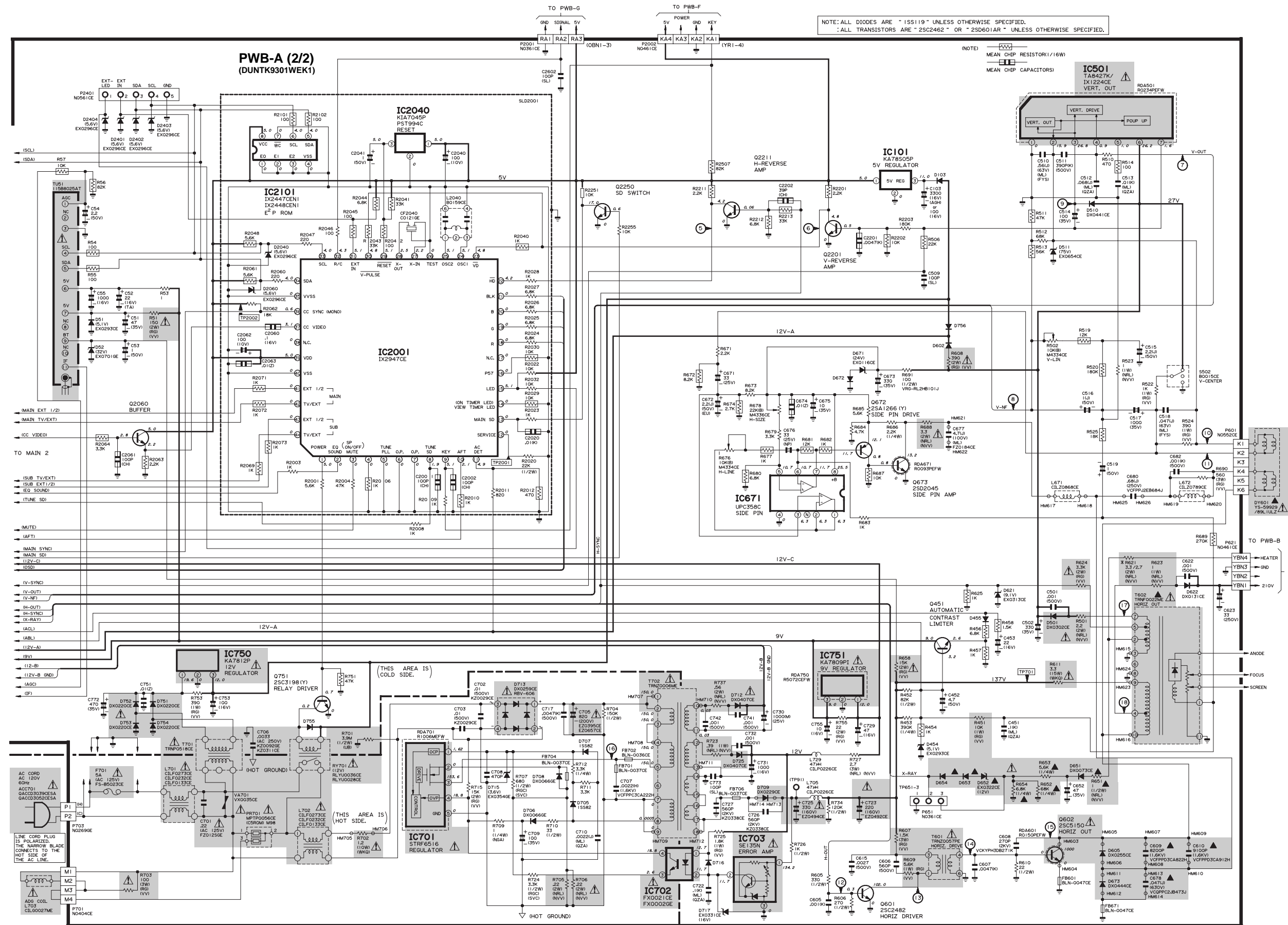


(NOTE) MEAN CHIP RESISTOR(1/16W)
 MEAN CHIP CAPACITORS)

NOTE: ALL DIODES ARE "1SS119" UNLESS OTHERWISE SPECIFIED.
: ALL TRANSISTORS ARE "2SC2462" OR "2SD601AR" UNLESS OTHERWISE SPECIFIED.

PWB-R PinP MODULE

MODELS 36J-S400/CJ36S40 SCHEMATIC DIAGRAM : MAIN Unit-2



A	B	C	D	E	F	G	H
---	---	---	---	---	---	---	---

P-IN-P

PWB-R
(DUNTK9255WEK1)

NOTE: ALL DIODES ARE "1SS119" UNLESS OTHERWISE SPECIFIED.
: ALL TRANSISTORS ARE "2SC2462" OR "2SD601AR" UNLESS OTHERWISE SPECIFIED.

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

IC1801
M65617SP
VSS3 OUT IN FILT BIAS VDD03 VDD02 VIN M VRT M VRT A A VSS2 VDD1 VDD1 S VRN S VRT S VRD S VSS1 RESET VSS1 VDD1 BOP SCK S SYNC ACK SDA SCL VSS2

IC1701
TA7348P
SUB INPUT SW (IC1701) CONTROL
MODE 2 PIN EXT 1/2 4 PIN TV/EXT
EXT 2 L L
TV L H
EXT 1 H L

IC1751
KA7805P
5V REG

Q1730
2SA812A
2SB709AR
BUFFER

Q1731
2SA812
2SB709AR
BUFFER

Q1732
INVERTER

Q1733
2SA812
2SB709AR
BUFFER

Q1734
2SA812
2SB709AR
BUFFER

Q1735
2SA812
2SB709AR
BUFFER

Q1736
2SA812
2SB709AR
BUFFER

Q1737
2SA812
2SB709AR
BUFFER

Q1738
2SA812
2SB709AR
BUFFER

Q1739
2SA812
2SB709AR
BUFFER

Q1740
2SA812
2SB709AR
BUFFER

Q1741
2SA812
2SB709AR
INVERTER

Q1742
2SA812
2SB709AR
INVERTER

Q1743
2SA812
2SB709AR
INVERTER

Q1744
2SA812
2SB709AR
INVERTER

Q1745
2SA812
2SB709AR
INVERTER

Q1746
2SA812
2SB709AR
INVERTER

Q1747
2SA812
2SB709AR
INVERTER

Q1748
2SA812
2SB709AR
INVERTER

Q1749
2SA812
2SB709AR
INVERTER

Q1750
2SA812
2SB709AR
INVERTER

Q1751
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2SB709AR
INVERTER

Q1752
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INVERTER

Q1753
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2SB709AR
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Q1754
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INVERTER

Q1755
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INVERTER

Q1756
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INVERTER

Q1757
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Q1759
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Q1760
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Q1761
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INVERTER

Q1762
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Q1763
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Q1764
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Q1765
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Q1766
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INVERTER

Q1767
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INVERTER

Q1768
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2SB709AR
INVERTER

Q1769
2SA812
2SB709AR
INVERTER

Q1770
2SA812
2SB709AR
INVERTER

Q1771
2SA812
2SB709AR
INVERTER

Q1772
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2SB709AR
INVERTER

Q1773
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2SB709AR
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Q1774
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Q1775
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Q1776
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Q1779
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Q1780
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Q1781
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Q1782
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Q1783
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Q1785
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Q1787
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Q1788
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Q1790
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Q1791
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Q1792
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Q1794
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Q1795
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Q1796
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Q1797
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Q1798
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INVERTER

Q1799
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2SB709AR
INVERTER

Q1800
2SA812
2SB709AR
INVERTER

Q1801
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2SB709AR
INVERTER

Q1802
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INVERTER

Q1803
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INVERTER

Q1804
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INVERTER

Q1805
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INVERTER

Q1806
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INVERTER

Q1807
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2SB709AR
INVERTER

Q1808
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2SB709AR
INVERTER

Q1809
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2SB709AR
INVERTER

Q1810
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2SB709AR
INVERTER

Q1811
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INVERTER

Q1812
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2SB709AR
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Q1813
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INVERTER

Q1814
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Q1815
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INVERTER

Q1816
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Q1817
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Q1818
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INVERTER

Q1819
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INVERTER

Q1820
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Q1821
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Q1822
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Q1823
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Q1824
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Q1825
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Q1826
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Q1827
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Q1828
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Q1829
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Q1830
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Q1831
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Q1832
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Q1833
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INVERTER

Q1834
2SA812
2SB709AR
INVERTER

Q1835
2SA812
2SB709AR
INVERTER

Q1836
2SA812
2SB709AR
INVERTER

Q1837
2SA812
2SB709AR
INVERTER

Q1838
2SA812
2SB70

PWB-F
(DUNT8672WEK4)

5V

S4001
K0068CE
POWER

S4005
K0068CE
VOL-DOWN

S4004
K0068CE
VOL-UP

S4003
K0068CE
CH-DOWN

S4002
K0068CE
CH-UP

R4009
15K
(1/4W)

R4001
10K
(1/4W)

R4003
27K
(1/4W)

R4004
56K
(1/4W)

R4006
56K
(1/4W)

R4007
12K
(1/4W)

R4010
2.7K
(1/4W)

R4011
2.7K
(1/4W)

P4001
NO461CE

KA4 KA3 KA2 KA1

5V GND KEY

TO MAIN (1/2)

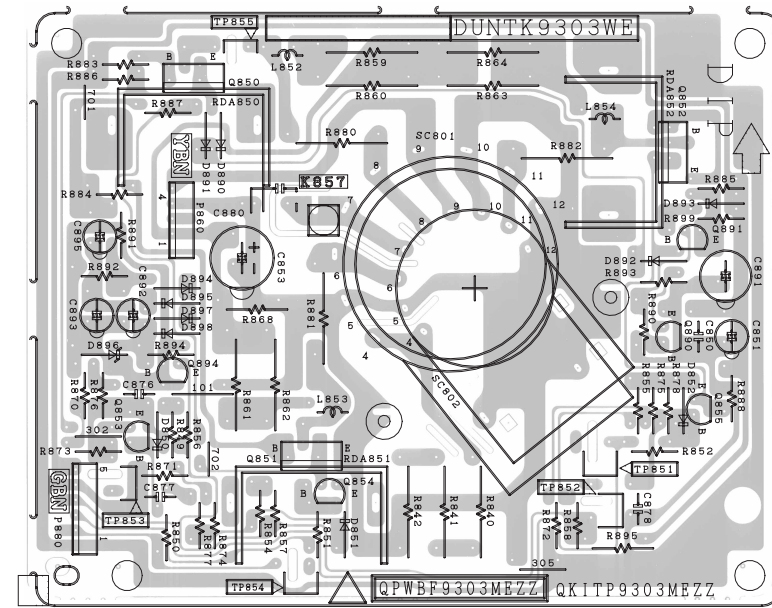
PWB-G
(DUNT8673WEK4)

The schematic diagram illustrates the internal circuitry of the PWB-G (DUNT8673WEK4). It features two main input sections at the top: **AUDIO-IN** (L, R, MONO) and **VIDEO-IN**. The **AUDIO-IN** section includes a switch and is connected to a series of components including resistors R4005 (330 Ω), R4007 (47 Ω), and R4008 (75 Ω), and capacitors C4001 (47 μ F, 50V) and C4002 (03 μ F, 50V). The **VIDEO-IN** section includes a switch and is connected to a series of components including resistors R4005 (330 Ω), R4007 (47 Ω), and R4008 (75 Ω), and capacitors C4001 (47 μ F, 50V) and C4002 (03 μ F, 50V).

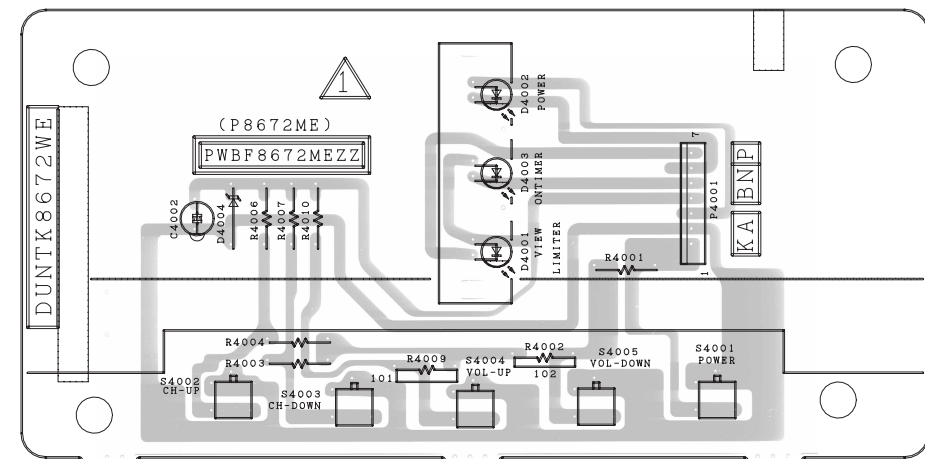
The central part of the diagram shows a series of components labeled **RA1**, **RA2**, **RA3**, **EJ1**, **EJ2**, **EJ3**, **EJ4**, **EJ5**, and **EJ6**. These are connected to a common ground line. The **RA1**, **RA2**, and **RA3** components are connected to a **R/C RECEIVER** (RMC4001, RRMCU0216CEZZ) which has three pins labeled 1, 2, and 3. The **EJ1**, **EJ2**, **EJ3**, **EJ4**, **EJ5**, and **EJ6** components are connected to a common ground line. The **EJ1**, **EJ2**, **EJ3**, **EJ4**, **EJ5**, and **EJ6** components are connected to a common ground line.

The bottom section shows the output connections: **TO MAIN (1/2)** and **TO MAIN (2/2)**. The **TO MAIN (1/2)** section includes a ground connection, a **R/C** connection, and a **5V** connection. The **TO MAIN (2/2)** section includes a ground connection, a **R** connection, a **GND** connection, a **L** connection, a **GND** connection, a **V** connection, and a **GND** connection.

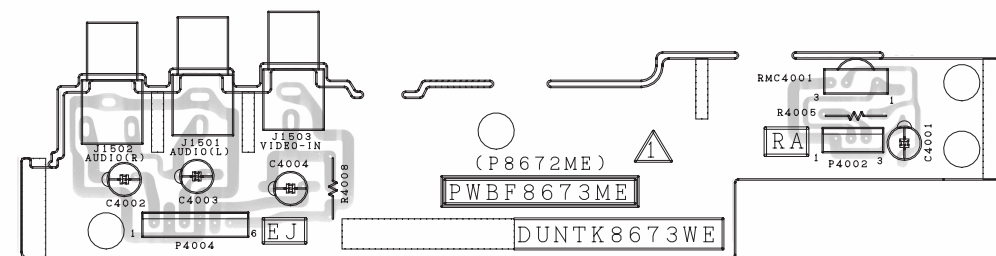
PRINTED WIRING BOARD ASSEMBLIES



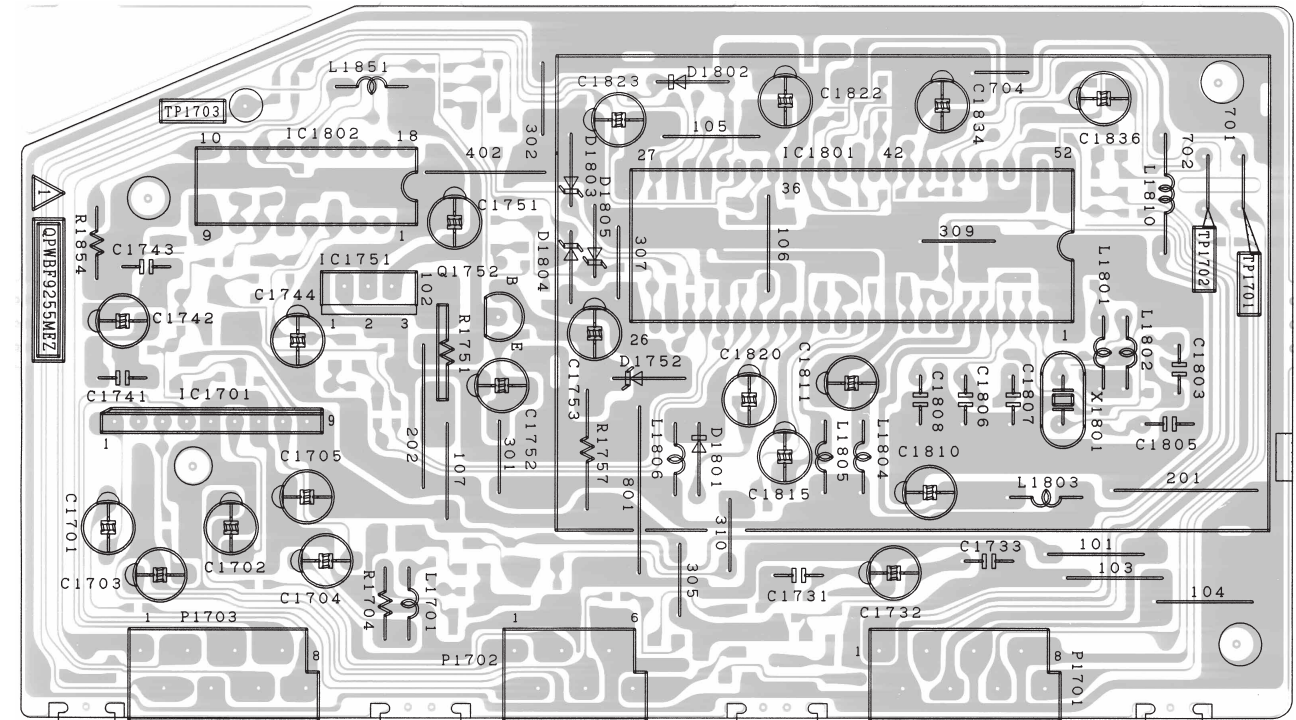
PWB-B : CRT Unit (Wiring Side)



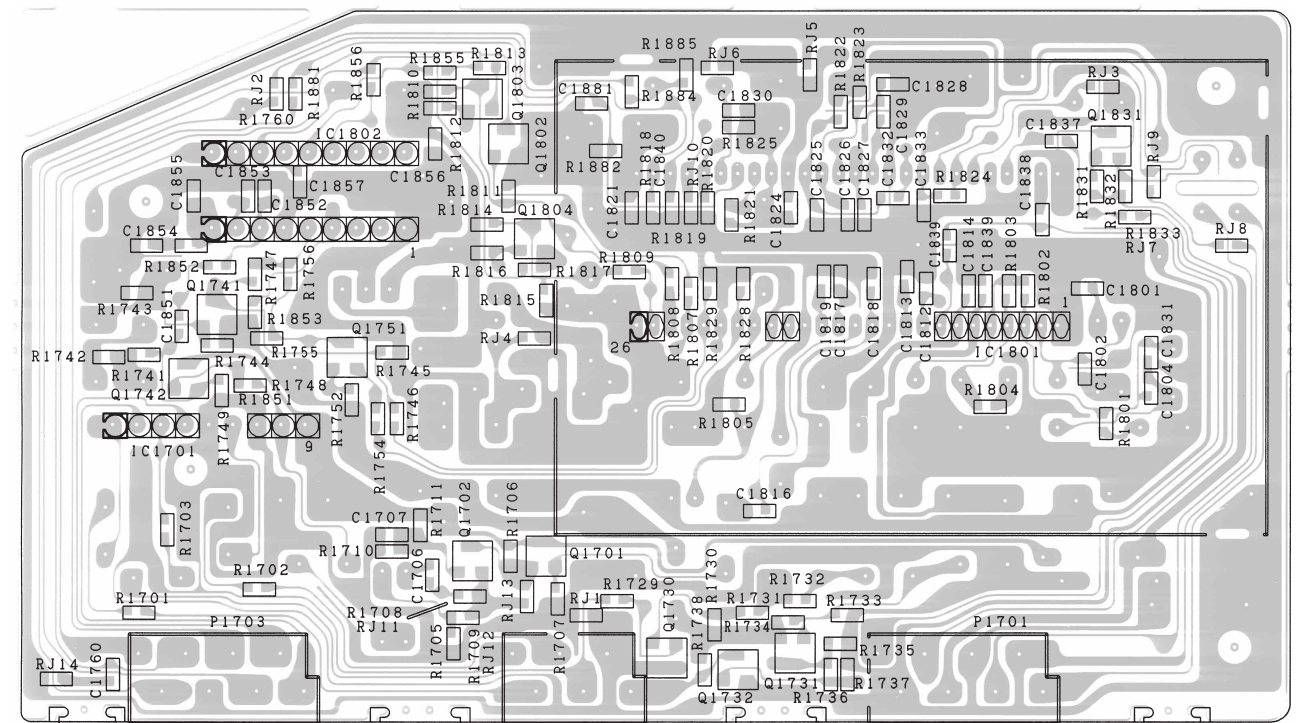
PWB-F : CONTROL Unit (Wiring Side)



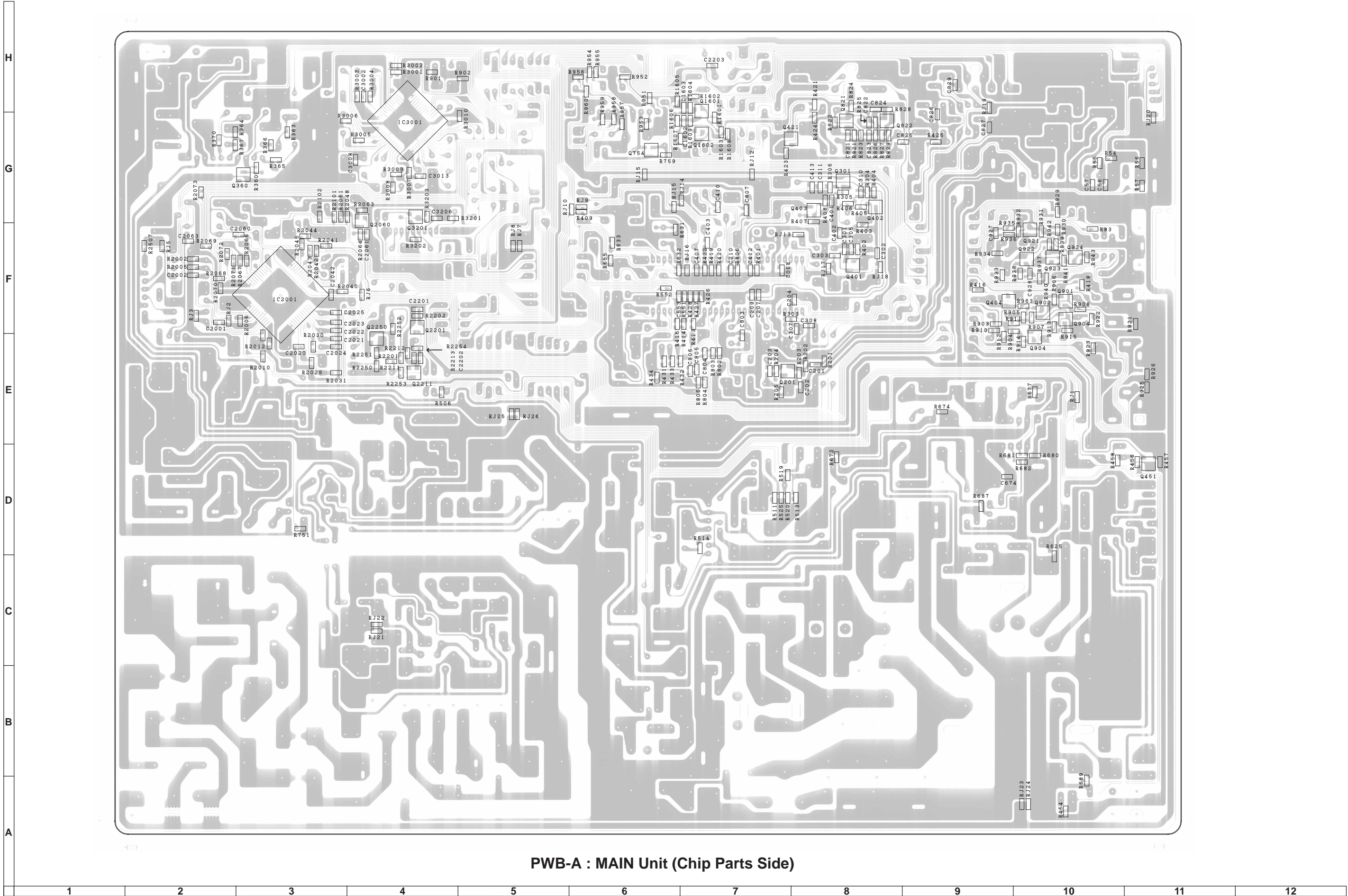
PWB-G :R/C Unit (Wiring Side)



PWB-R : P-IN-P Unit (Wiring Side)



PWB-R : P-IN-P 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 Δ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not 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

32J-S400/CJ32S40

▲▲ V101	VB80LJF30X*S	M	Picture Tube (DY : H0106ME)	
	or			
	VB80JUA061X*S	M	Picture Tube (DY : H0103ME or H0104ME)	
▲ L703	RCiLG0028MEZZ	M	Degaussing Coil	AZ
▲▲ DY601	RCiLH0106MEZZ	M	DY(CRT : A80LJF30X)	BL
	or			
	RCiLH0103MEZZ	M	DY(CRT : M80JUA061X)	AY
	or			
	RCiLH0104MEZZ	M	DY(CRT : M80JUA601X)	
*Follow the combination below replacing the CRT				
	CRT	DY	C610	R621
Combi-	A80LJF30X	H0106ME	9100p	1.8/2W
nation	M80JUA061X	H0103ME	0.01	2.2/2W
	M80JUA061X	H0104ME	9100p	2.2/2W

36J-S400/CJ36S40

▲▲ V101	VB90AHH5001*S	M	Picture Tube (ITC)	DV
	or			
	VB90AEJ1509*S	M	Picture Tube (ITC)	
▲	RCiLG0027MEZZ	M	Degaussing Coil	AZ
	MSPRT0002MEZZ	M	Spring for CRT	AA
	QEARC3502MEZZ	M	Ground-part	AH
*Follow the combination below replacing the CRT				
	CRT	R621		
Combi-	A90AHH50X01	3.3/2W		
nation	A90AEJ15X09	2.7/2W		

— End of Picture Tube —

LISTE DES PIECES

CHANGE DES PIECES

Les pièces de rechange qui présentent ces caractéristiques spéciales de sécurité électrique, sont identifiées dans ce manuel : les pièces électriques qui présentent ces particularités, sont représentées par la marque Δ et sont hachurées dans les listes de pièces et dans les diagrammes schématiques.

La substitution d'une pièce de rechange par une autre qui ne présente pas les mêmes caractéristiques de sécurité électrique que la pièce recommandée par l'usine et dans ce manuel de service, peut provoquer une électrocution, un incendie ou tout autre 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 **CANADA:** Contact SHARP Electronics of Canada Limited
Phone (416) 890-2100

★ MARQUE: SECTION LIVRAISON DES PIECES DERECHANGE

▲ MARQUE: PIECES RELATIVE AUX RAYONS X

Ref. No.	Part No.	★	Description	Code
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PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A	DUNTK9301WEK0	-	Main Unit (32J-S400/CJ32S40)	—
PWB-A	DUNTK9301WEK1	-	Main Unit (36J-S400/CJ36S40)	—
PWB-B	DUNTK9303WEK0	-	CRT Unit (32J-S400/CJ32S40)	—
PWB-B	DUNTK9303WEK1	-	CRT Unit (36J-S400/CJ36S40)	—
PWB-F	DUNTK8672WEK4	-	Control Unit	—
PWB-G	DUNTK8673WEK4	-	R/C Unit	—
PWB-R	DUNTK9255WEK1	-	P-IN-P Unit	—

— End of PRINTED WIRINGBOARD ASSEMBLIES —

Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK9301WEK0/K1				
MAIN UNIT				
TUNER				
NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.				
△ TU51	VTU115B8025AT	M	Tuner	BA
INTEGRATED CIRCUITS				
IC101	VHiKA78S05P-1	J	KiA78S05P	AD
▲△ IC201	RH-iX2701CEN1	J	TA1201CN	AS
△ IC361	RH-iX1135CEZZ	J	LA4261	AH
IC421	VHiTA7347P/-1	M	TA7347P	AG
△ IC501	VHiTA8427K/-1	J	TA8427k	AL
IC671	VHiUPC358C/-1	J	UPC358C	AD
△ IC701	VHiSTRF65161E	M	STR-F6516	AS
△ IC702	RH-FX0002GEZZ	J	PS2501-1	AD
△ IC703	VHiSE125N//-1	M	(32J-S400/CJ32S40)AG	
△ IC703	VHiSE135N//-1	M	(36J-S400/CJ36S40)AG	
△ IC750	VHiKA7812Pi-1	M	KiA7812Pi	AE
△ IC751	VHiKA7809Pi-1	M	KiA7809Pi	AE
IC821	VHiTA7347P/-1	M	TA7347P	AG
IC951	VHiLA7956//-1	J	LA7956	AG
IC2001	RH-iX2947CEZZ	M	TMPA8701CMF107	AU
IC2040	VHiKiA7045P-1	J	KiA7045P	AD
or				
VHiPST994C/-1				
IC2101	RH-iX2447CEN1	J	St24C01B6	AL
or				
RH-iX2448CEN1				
IC3001	VHiCXA2053Q-1	J	CXA2053	AX
IC3201	VHiAN5285K/-1	M	AN5285K	AL
TRANSISTORS				
You can substitute "VS2SD601AR/-1" for "VS2SC2462-C-1".				
Q201	VS2SC2735//1E	J	2SC2735	AC
Q301	VS2SD601AR/-1	J	2SD601(AR)	AC
Q360	VS2SD601AR/-1	J	2SD601(AR)	AC
Q401	VS2SD601AR/-1	J	2SD601(AR)	AC
Q402	VS2SB709AR/-1	J	2SB709(AR)	AC
or				
VS2SA812-M51E				
Q403	VS2SD601AR/-1	J	2SD601(AR)	AC
Q421	VS2SB709AR/-1	J	2SB709(AR)	AC
or				
VS2SA812-M51E				
Q451	VS2SD601AR/-1	J	2SD601(AR)	AC
Q601	VS2SC2482//-1	J	2SC2482	AD
△ Q602	VS2SD2500//2E	J	2SD2500	AT
(32J-S400/CS32S40)				
△ Q602	VS2SD5150//2E	M	2SC5150	—
(36J-S400/CS36S40)				
Q672	VS2SA1266-Y-1	J	2SA1266(Y)	AA
Q673	VS2SD2045//-1	J	2SD2045	AL
Q751	VS2SC3198-Y-1	J	2SC3198(Y)	AA
Q754	VS2SD601AR/-1	J	2SD601(AR)	AC
Q821	VS2SD601AR/-1	J	2SD601(AR)	AC

Ref. No.	Part No.	★	Description	Code
Q822	VS2SD601AR/-1	J	2SD601(AR)	AC
Q901	VS2SD601AR/-1	J	2SD601(AR)	AC
Q902	VS2SD601AR/-1	J	2SD601(AR)	AC
Q903	VS2SD601AR/-1	J	2SD601(AR)	AC
Q904	VS2SD601AR/-1	J	2SD601(AR)	AC
Q921	VS2SD601AR/-1	J	2SD601(AR)	AC
Q922	VS2SD601AR/-1	J	2SD601(AR)	AC
Q923	VS2SD601AR/-1	J	2SD601(AR)	AC
Q924	VS2SD601AR/-1	J	2SD601(AR)	AC
Q1601	VS2SD601AR/-1	J	2SD601(AR)	AC
Q1602	VS2SB709AR/-1	J	2SB709(AR)	AC
or				
VS2SA812-M51E				
Q2060	VS2SD601AR/-1	J	2SD601(AR)	AC
Q2201	VS2SD601AR/-1	J	2SD601(AR)	AC
Q2211	VS2SD601AR/-1	J	2SD601(AR)	AC
Q2250	VS2SD601AR/-1	J	2SD601(AR)	AC
Q3201	VS2SD601AR/-1	J	2SD601(AR)	AC
DIODES				
D51	RH-EX0293CEZZ	J	Zener Diode	AA
D52	RH-EX0701GEZZ	J	Zener Diode	AB
D103	VHD1SS119//-1	J	Diode	AB
D361	VHD1SS119//-1	J	Diode	AB
D362	VHD1SS119//-1	J	Diode	AB
D401	VHD1SS119//-1	J	Diode	AB
D402	RH-EX0092CEZZ	J	Zener Diode	AB
D403	RH-EX0293CEZZ	J	Zener Diode	AA
D404	RH-EX0293CEZZ	J	Zener Diode	AA
D405	RH-EX0293CEZZ	J	Zener Diode	AA
D421	RH-EX0296CEZZ	J	Zener Diode	AB
D422	RH-EX0313CEZZ	J	Zener Diode	AA
D454	RH-EX0293CEZZ	J	Zener Diode	AA
D455	VHD1SS119//-1	J	Diode	AB
△ D501	RH-DX0302CEZZ	J	Diode	AC
D510	RH-DX0441CEZZ	J	Diode	AC
D511	RH-EX0654CEZZ	J	Zener Diode	AD
D602	VHD1SS119//-1	J	Diode	AB
△ D605	RH-DX0255CEZZ	J	Diode	AC
D621	RH-EX0313CEZZ	J	Zener Diode	AA
△ D622	RH-DX0131CEZZ	J	Diode	AC
D631	RH-EX0312CEZZ	J	Zener Diode	AA
▲△ D651	RH-DX0073CEZZ	J	Diode	AD
▲△ D652	RH-EX0322CEZZ	J	Zener Diode	AA
▲△ D653	VHD1SS119//-1	J	Diode	AB
▲△ D654	VHD1SS119//-1	J	Diode	AB
D671	RH-EX0116CEZZ	J	Zener Diode	AB
D672	VHD1SS119//-1	J	Diode	AB
△ D673	RH-DX0444CEZZ	J	Diode	AH
D705	VHD1SS82///1A	J	Diode	AC
D706	RH-DX0066GEZZ	J	Diode	AB
D707	VHD1SS82///1A	J	Diode	AC
D708	RH-DX0066GEZZ	J	Diode	AB
△ D709	RH-DX0229CEZZ	J	Diode	AF
△ D712	RH-DX0407CEZZ	J	Diode	AD
△ D713	RH-DX0259CEZZ	J	Diode	AH
D715	RH-EX0354GEZZ	J	Zener Diode	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK9301WEK0/K1									
MAIN UNIT(Continued)									
	D716		VHD1SS119/-1	J Diode	AB				
	D717		RH-EX0331CEZZ	J Zener Diode	AA				
△	D725		RH-DX0407CEZZ	J Diode	AD				
△	D751		RH-DX0220CEZZ	J Diode	AB				
△	D752		RH-DX0220CEZZ	J Diode	AB				
△	D753		RH-DX0220CEZZ	J Diode	AB				
△	D754		RH-DX0220CEZZ	J Diode	AB				
	D755		VHD1SS119/-1	J Diode	AB				
	D756		VHD1SS119/-1	J Diode	AB				
	D821		RH-EX0313CEZZ	J Zener Diode	AA				
	D921		RH-EX0313CEZZ	J Zener Diode	AA				
	D922		RH-EX0313CEZZ	J Zener Diode	AA				
	D2040		RH-EX0296CEZZ	J Zener Diode	AB				
	D2060		RH-EX0296CEZZ	J Zener Diode	AB				
△	VA701		RH-VX0035CEZZ	J Varistor	AF				
PACKAGED CIRCUITS									
△	PR701		RMPTP0056CEZZ	J Packaged Circuit	AH				
	X801		RCRSB0001PEZZ	M Crystal	AL				
FILTERS									
	CF301		RFiLC0029TAZZ	J Filter	AD				
	CF302		RFiLC0267CEZZ	J Filter	AD				
	CF401		RFiLC0013CEZZ	J Filter	AE				
	CF631		RFiLA0034CEZZ	J Filter	AD				
	CF2040		RFiLC0121GEZZ	J Filter	AD				
	DL421		RCiLZ0938CEZZ	J Coil	AW				
COILS									
	L201		VP-XF1R2K0000	J Peaking 1.2μH	AB				
	L202		RCiLi0588CEZZ	J IF Coil	AF				
	L301		VP-XF8R2K0000	J Peaking 8.2μH	AB				
	L302		RCiLi0605CEZZ	J IF Coil	AE				
	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				
	L671		RCiLZ0720CEZZ	J Coil	AL				
				(32J-S400/CJ32S40)					
	L671		RCiLZ0868CEZZ	J Coil	AM				
				(36J-S400/CJ36S40)					
	L672		RCiLZ0789CEZZ	J Coil	AK				
△	L701		RCiLF0273CEZZ	J Coil	AM				
			or						
			RCiLF0232CEZZ						
			or						
			RCiLF0133CEZZ						
△	L702		RCiLF0273CEZZ	J Coil	AM				
			or						
			RCiLF0232CEZZ						
			or						
			RCiLF0133CEZZ						
	L705		RCiLP0226CEZZ	J Coil	AD				
	L729		RCiLP0226CEZZ	J Coil	AD				
	L821		VP-XF680K0000	J Peaking 68μH	AB				
	L2040		RCiLB0159CEZZ	M Oscillation Coil	AD				
	SF201		RFiLC0405CEZZ	J Filter	—				
TRANSFORMERS									
△	T601		RTRNZ0057PEZZ	J Transformer	AK				
▲△	T602		RTRNF0021MEZZ	M H-Out	BC				
				(32J-S400/CJ32S40)					
▲△	T602		RTRNF0022MEZZ	M H-Out	BC				
				(32J-S400/CJ32S40)					
△	T701		RTRNP0518CEZZ	J Power	AN				
△	T702		RTRNZ0006MEZZ	M Transformer	AG				
CONTROLS									
	R502		RVR-M4334CEZZ	J 10k(B) V-LIN	AC				
	R676		RVR-M4334CEZZ	J 10k(B) H-LINE	AC				
	R678		RVR-M4336CEZZ	J 22k(B) H-SIZE	AC				
CAPACITORS									
					[EL... Electrolytic, M-Poly ... Metalized Polypro Film]				
	C51		VCEAGA1VW476M	J 47 35V EL.	AB				
	C52		VCSATA1CE226K	J 22 16V Tantalum	AD				
	C53		VCEAGA1HW105M	J 1 50V EL.	AC				
	C54		VCEAGA1HW225M	J 2.2 50V EL.	AB				
	C55		VCEAGA1CW108M	J 1000 16V EL.	AD				
	C103		VCEAGH1CW338M	J 3300 16V EL.	AE				
			or						
			VCEAGA1CW107M	100 16V EL.	AB				
	C201		VCKYCY1HB102K	J 1000p 50V Ceramic	AA				
	C202		VCKYCY1HF103Z	J 0.01 50V Ceramic	AA				
	C203		VCKYCY1HB102K	J 1000p 50V Ceramic	AA				
	C204		VCKYCY1HF103Z	J 0.01 50V Ceramic	AA				
	C205		VCEAGA1HW474M	J 0.47 50V EL.	AA				
	C206		VCEAGA1CW337M	J 330 16V EL.	AC				
	C207		VCKYCY1HF103Z	J 0.01 50V Ceramic	AA				
	C208		VCEAGA1HW474M	J 0.47 50V EL.	AA				
	C209		VCKYCY1HB222K	J 2200p 50V Ceramic	AA				
	C210		VCKYCY1HB102K	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		VCEAGA1CW337M	J 330 16V EL.	AC				
	C312		VCEAGA1CW106M	J 10 16V EL.	AA				
	C360		VCEAGA1HW225M	J 2.2 50V EL.	AB				
	C361		VCEAGA1HW225M	J 2.2 50V EL.	AB				
	C363		VCEAGA1EW108M	J 1000 25V EL.	AD				
	C364		VCEAGA1EW107M	J 100 25V EL.	AD				
	C365		VCEAGA0JW107M	J 100 6.3V EL.	AB				
	C368		VCEAGA1CW477M	J 470 16V EL.	AC				
	C369		VCEAGA1CW477M	J 470 16V EL.	AC				
	C370		VCEAGA0JW107M	J 100 6.3V EL.	AB				
	C371		RC-QZA104TAYK	J 0.1 50V Mylar	AB				
	C372		RC-QZA104TAYK	J 0.1 50V Mylar	AB				
	C380		RC-QZA103TAYK	J 0.01 50V Mylar	AA				

Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK9301WEK0/K1				
MAIN UNIT(Continued)				
C381	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C401	VCKYCY1HB331K	J	330p 50V Ceramic	AA
C402	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C403	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C404	VCEAGA1CW107M	J	100 16V EL.	AB
C405	VCEAGA1HW335M	J	3.3 50V EL.	AB
C406	VCEAGA1HW225M	J	2.2 50V EL.	AB
C407	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C408	VCEAGA1HW106M	J	10 50V EL.	AC
C409	VCEAGA1HW335M	J	3.3 50V EL.	AB
C410	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C411	VCEAGA1CW337M	J	330 16V EL.	AC
C412	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C413	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C422	VCEAGA1CW476M	J	47 16V EL.	AB
C423	VCEAGA1VW476M	J	47 35V EL.	AB
C424	VCE9GA1CW106M	J	10 16V EL.	AB
C425	VCE9GA1CW106M	J	10 16V EL.	AB
C426	VCEAGA1CW106M	J	10 16V EL.	AA
C451	RC-QZA104TAYK	J	0.1 50V Mylar	AB
C452	VCEAGA1HW475M	J	4.7 50V EL.	AB
C453	VCEAGA1CW226M	J	22 16V EL.	AB
C501	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C502	VCEAGA1VW337M	J	330 35V EL.	AC
C509	VCCSPA1HL101J	J	100p 50V Ceramic	AA
C510	VCFYSA1JA564J	J	0.56 63V	AE
C511	VCKYPA2HB391K	J	390p 500V Ceramic	AA
C512	RC-QZA683TAYJ	J	0.068 50V Mylar	AB
C513	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C514	VCEAGA1VW107M	J	100 35V EL.	AC
C515	VCEACA1HC225J	J	2.2 50V EL.	AC
C516	VCEACA1HC105J	J	1 50V EL.	AB
C517	VCEAGA1VW108M	J	1000 35V EL.	AD
C518	VCFYSA1JA473J	J	0.047 63V Mylar	AC
C519	VCEAGA1HW105M	J	1 50V EL.	AC
C551	VCSATA1CE225K	J	2.2 16V Tantalum	AB
C552	VCEAGA1HW225M	J	2.2 50V EL.	AB
C553	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C605	VCKYPA1HB102K	J	1000p 50V Ceramic	AA
C606	VCKYPA2HB561K	J	560p 500V Ceramic	AA
C607	VCKYPA1HB472K	J	4700p 50V Ceramic	AA
C608	RC-KZ0033CEZZ	J	150p 2kV Ceramic	AB
			(32J-S400/CJ32S40)	
C608	VCKYPH3DB271K	J		AB
			(36J-S400/CJ36S40)	
▲△ C609	VCFPPD3CA912H	J	9100p 1.6kV M-Poly	AE
			(32J-S400/CJ32S40)	
▲△ C609	VCFPPD3C822H	J	8200p 1.6kV M-Poly	AE
			(36J-S400/CJ36S40)	
▲△ C610	VCFPPD3CA912H	J	9100p 1.6kV M-Poly	AE
C615	VCKYPA2HB272K	J	2700p 500V Ceramic	AA
C622	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
△ C623	VCEAGA2EW336M	J	33 250V EL.	AD
C631	VCEAGA1HW335M	J	3.3 50V EL.	AB

Ref. No.	Part No.	★	Description	Code
C632	RC-QZA103TAYK	J	0.01 50V Mylar	AA
C633	VCEAGA1HW105M	J	1 50V EL.	AC
C652	VCEAGA1VW476M	J	47 35V EL.	AB
C653	VCEAGA1HW106M	J	10 50V EL.	AC
C671	VCEAGA1EW336M	J	33 25V EL.	AB
C672	VCEACA1HC225J	J	2.2 50V EL.	AC
C673	VCEAGA1VW337M	J	330 35V EL.	AC
C674	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C675	VCEAGA1VW106M	J	10 35V EL.	AC
C676	VCE9GA1EW336M	J	33 25V EL.	AB
C677	RC-FZ0184CEZZ	J	4.7 100V Mylar	AG
△ C678	VCQPPC2GB473J	J	0.047 400V	AB
			(32J-S400/CJ32S40)	
△ C678	VCQPPC2JB473J	J	0.047 400V	AB
			(36J-S400/CJ36S40)	
C680	VCFPPD2DB684J	J	0.68 200V M.Poly.Film	AE
C682	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
△ C701	RC-FZ012SGEZZ	J	0.22 AC125V Plastic	AE
C702	RC-KZ0029CEZZ	J	0.01 500V Ceramic	AC
C703	RC-KZ0029CEZZ	J	0.01 500V Ceramic	AC
△ C705	RC-EZ0394CEZZ	J	680 200V EL.	AP
			(32J-S400/CJ32S40)	
	or			
	RC-EZ0656CEZZ			
△ C705	RC-EZ0395CEZZ	J	680 250V AT	
			(36J-S400/CJ36S40)	
△ C706	RC-KZ0092GEZZ	J	0.0033 AC250V Ceramic	AC
	or			
	RC-KZ0311CEZZ			
C707	VCFPPC3CA222H	J	2200p 1.6kV M-Poly	AD
C708	VCCSPA1HL471J	J	470p 50V Ceramic	AA
C709	VCEAGA1VW107M	J	100 35V EL.	AC
C710	RC-QZA222TAYJ	J	0.0022 50V Mylar	AB
C717	VCKYPA2HB472K	J	4700p 500V Ceramic	AB
C722	RC-QZA104TAYK	J	0.1 50V Mylar	AB
△ C723	RC-EZ0492CEZZ	M	220 160V EL.	AH
△ C725	RC-EZ0493CEZZ	M	270 160V EL.	AH
			(32J-S400/CJ32S40)	
△ C725	RC-EZ0494CEZZ	J	270 250V AF	
			(36J-S400/CJ36S40)	
C726	RC-KZ0338CEZZ	J	560p 2kV Ceramic	AD
C727	RC-KZ0338CEZZ	J	560p 2kV Ceramic	AD
C729	VCEAGA1CW476M	J	47 16V EL.	AB
C730	VCEAGA1EW108M	J	1000 25V EL.	AD
C731	VCEAGA1CW108M	J	1000 16V EL.	AD
C732	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C741	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C742	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C751	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C753	VCEAGA1CW107M	J	100 16V EL.	AB
C755	VCEAGA1CW106M	J	10 16V EL.	AA
C759	VCEAGA1CW107M	J	100 16V EL.	AB
C772	VCEAGA1VW477M	J	470 35V EL.	AD
C773	VCCSPA1HL101J	J	100p 50V Ceramic	AA
C801	RC-QZA223TAYK	J	0.0022 50V Mylar	AB
C802	VCEAGA1HW474M	J	0.47 50V EL.	AA
C803	VCCCCY1HH110J	J	11p 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK9301WEK0/K1									
MAIN UNIT(Continued)									
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			
C821	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C822	VCCCCY1HH150J	J	15p	50V	Ceramic	AA			
C823	VCCCCY1HH150J	J	15p	50V	Ceramic	AA			
C824	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C825	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C826	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C827	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C829	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C901	VCEAGA1HW335M	J	3.3	50V	EL.	AB			
C903	VCEAGA1HW335M	J	3.3	50V	EL.	AB			
C922	VCEAGA1HW335M	J	3.3	50V	EL.	AB			
C923	VCEAGA1HW335M	J	3.3	50V	EL.	AB			
C925	VCEAGA1CW476M	J	47	16V	EL.	AB			
C926	VCEAGA1CW476M	J	47	16V	EL.	AB			
C927	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C928	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C929	VCEAGA1CW106M	J	10	16V	EL.	AA			
C930	VCEAGA1CW106M	J	10	16V	EL.	AA			
C951	VCEAGA1CW106M	J	10	16V	EL.	AA			
C952	VCSATA1CE226K	J	22	16V	Tantalum	AD			
C953	VCEAGA1CW106M	J	10	16V	EL.	AA			
C954	VCEAGA1CW106M	J	10	16V	EL.	AA			
C955	VCEAGA1CW107M	J	100	16V	EL.	AB			
C956	VCEAGA1CW337M	J	330	16V	EL.	AC			
C1601	VCEAGA1CW106M	J	10	16V	EL.	AA			
C1602	VCCCCY1HH470J	J	47p	50V	Ceramic	AA			
C1603	VCKYCY1HB221K	J	220p	50V	Ceramic	AA			
C2001	VCCCCY1HH101J	J	100p	50V	Ceramic	AA			
C2002	VCCCCY1HH101J	J	100p	50V	Ceramic	AA			
C2020	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C2040	VCEAGA1AW107M	J	100	10V	EL.	AB			
C2041	VCEAGA1HW105M	J	1	50V	EL.	AC			
C2060	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB			
C2061	VCCCCY1HH101J	J	100p	50V	Ceramic	AA			
C2062	VCEAGA1AW107M	J	100	10V	EL.	AB			
C2063	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA			
C2201	VCKYCY1HB472K	J	4700p	50V	Ceramic	AA			
C2202	VCCCCY1HH390J	J	39p	50V	Ceramic	AA			
C2203	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA			
C2602	VCCSPA1HL101J	J	100p	50V	Ceramic	AA			
C3001	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB			
C3002	VCKYCY1HB562K	J	5600p	50V	Ceramic	AA			
C3003	RC-QZA123TAYK	J	0.012	50V	Mylar	AB			
C3004	VCEAGA1HW105M	J	1	50V	EL.	AC			
C3005	VCEAGA1HW475M	J	4.7	50V	EL.	AB			
C3006	VCEAGA1HW106M	J	10	50V	EL.	AC			
C3007	VCEAGA1HW475M	J	4.7	50V	EL.	AB			
C3008	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA			
C3009	VCEAGA1CW227M	J	220	16V	EL.	AC			
C3010	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB			
C3011	VCEAGA1HW475M	J	4.7	50V	EL.	AB			
C3012	VCE9GA1HW475M	J	4.7	50V	EL.	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	10	16V	Tantalum	AD			
C3018	VCEAGA1HW105M	J	1	50V	EL.	AC			
C3021	VCEAGA1HW475M	J	4.7	50V	EL.	AB			
C3022	VCEAGA1HW475M	J	4.7	50V	EL.	AB			
C3201	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB			
C3202	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB			
C3203	VCEAGA1HW475M	J	4.7	50V	EL.	AB			
C3204	VCEAGA1CW106M	J	10	16V	EL.	AA			
C3205	VCEAGA1CW106M	J	10	16V	EL.	AA			
C3206	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA			
C3207	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB			
C3208	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB			
					RESISTORS				
					<i>[Metal Ox. ... Metal Oxide]</i>				
△	R51	VRS-RG3DB151J	J	150	2W	Metal Ox.	AA		
R53	VRD-RA2BE1R0J	J	1	1/8W	Carbon	AA			
R54	VRS-CY1JF101J	J	100	1/16W	Metal Ox.	AA			
R55	VRS-CY1JF101J	J	100	1/16W	Metal Ox.	AA			
R56	VRS-CY1JF823J	J	82k	1/16W	Metal Ox.	AA			
R57	VRS-CY1JF103J	J	10k	1/16W	Metal Ox.	AA			
R83	VRS-CY1JF562J	J	5.6k	1/16W	Metal Ox.	AA			
R201	VRS-CY1JF151J	J	150	1/16W	Metal Ox.	AA			
R202	VRS-CY1JF122J	J	1.2k	1/16W	Metal Ox.	AA			
R203	VRS-CY1JF682J	J	6.8k	1/16W	Metal Ox.	AA			
R204	VRS-CY1JF270J	J	27	1/16W	Metal Ox.	AA			
R205	VRS-CY1JF331J	J	330	1/16W	Metal Ox.	AA			
R206	VRD-RA2BE121J	J	120	1/8W	Carbon	AA			
R207	VRD-RA2BE4R7J	J	4.7	1/8W	Carbon	AA			
R208	VRD-RA2BE331J	J	330	1/8W	Carbon	AA			
R301	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA			
R302	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA			
R303	VRS-CY1JF103J	J	10k	1/16W	Metal Ox.	AA			
R304	VRS-CY1JF333J	J	33k	1/16W	Metal Ox.	AA			
R305	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA			
R306	VRS-CY1JF152J	J	1.5k	1/16W	Metal Ox.	AA			
R360	VRS-CY1JF560J	J	56	1/16W	Metal Ox.	AA			
R361	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA			
R362	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA			
R363	VRS-CY1JF122J	J	1.2k	1/16W	Metal Ox.	AA			
R364	VRS-CY1JF122J	J	1.2k	1/16W	Metal Ox.	AA			
R365	VRS-CY1JF221J	J	220	1/16W	Metal Ox.	AA			
R370	VRS-CY1JF221J	J	220	1/16W	Metal Ox.	AA			
R371	VRD-RA2EE3R3J	J	3.3	1/4W	Carbon	AA			
R372	VRD-RA2EE3R3J	J	3.3	1/4W	Carbon	AA			
R401	VRS-CY1JF682J	J	6.8k	1/16W	Metal Ox.	AA			
R402	VRS-CY1JF331J	J	330	1/16W	Metal Ox.	AA			
R403	VRS-CY1JF391J	J	390	1/16W	Metal Ox.	AA			
R404	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA			
R405	VRS-CY1JF470J	J	47	1/16W	Metal Ox.	AA			
R406	VRS-CY1JF680J	J	68	1/16W	Metal Ox.	AA			

Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK9301WEK0/K1				
MAIN UNIT(Continued)				
R407	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R408	VRS-CY1JF471J	J	470 1/16W Metal Ox.	AA
R409	VRS-CY1JF562J	J	5.6k 1/16W Metal Ox.	AA
R410	VRD-RA2BE823J	J	82k 1/8W Carbon	AA
R411	VRD-RA2BE682J	J	6.8k 1/8W Carbon	AA
R412	VRD-RA2EE561J	J	560 1/4W Carbon	AA
R413	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R414	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R415	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R419	VRS-CY1JF225J	J	2.2M 1/16W Metal Ox.	AA
R420	VRS-CY1JF332J	J	3.3k 1/16W Metal Ox.	AA
R421	VRS-CY1JF152J	J	1.5k 1/16W Metal Ox.	AA
R422	VRS-CY1JF225J	J	2.2M 1/16W Metal Ox.	AA
R423	VRS-CY1JF152J	J	1.5k 1/16W Metal Ox.	AA
R424	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R425	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R426	VRS-CY1JF182J	J	1.8k 1/16W Metal Ox.	AA
R427	VRS-CY1JF182J	J	1.8k 1/16W Metal Ox.	AA
R428	VRS-CY1JF182J	J	1.8k 1/16W Metal Ox.	AA
R431	VRS-CY1JF330J	J	33 1/16W Metal Ox.	AA
R432	VRS-CY1JF330J	J	33 1/16W Metal Ox.	AA
R433	VRS-CY1JF330J	J	33 1/16W Metal Ox.	AA
R434	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
△ R451	VRS-RG3AB103J	J	10k 1W Metal Ox.	AB
R452	VRD-RM2HD823J	J	82k 1/2W Carbon	AA
R453	VRD-RA2EE824J	J	820k 1/4W Carbon (32J-S400/CJ32S40)	AA
R453	VRD-RA2EE394J	J	390k 1/4W Carbon (36J-S400/CJ36S40)	AA
R454	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R456	VRS-CY1JF682J	J	6.8k 1/16W Metal Ox.	AA
R457	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R458	VRS-CY1JF152J	J	1.5k 1/16W Metal Ox.	AA
△ R501	VRN-RL3DB2R2J	M	2.2 2W Metal Film	AA
R506	VRS-CY1JF223J	J	22k 1/16W Metal Ox.	AA
R510	VRD-RA2BE471J	J	470 1/8W Carbon	AA
R511	VRS-CY1JF473J	J	47k 1/16W Metal Ox.	AA
R512	VRD-RA2BE683J	J	68k 1/8W Carbon	AA
R513	VRS-CY1JF333J	J	33k 1/16W Metal Ox. (32J-S400/CJ32S40)	AA
R513	VRS-CY1JF563J	J	56k 1/16W Metal Ox. (36J-S400/CJ36S40)	AA
R514	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R519	VRS-CY1JF123J	J	12k 1/16W Metal Ox.	AA
R520	VRS-CY1JF184J	J	180k 1/16W Metal Ox.	AA
R522	VRS-RG3AB102J	M	1k 1W Metal Ox.	AA
R523	VRN-RL3AB1R2J	M	1.2 1W Metal Film (32J-S400/CJ32S40)	AA
R523	VRN-RL3AB1R0J	M	1 1W Metal Film (36J-S400/CJ36S40)	AA
R524	VRS-RG3AB391J	M	390 1W Metal Ox.	AA
R525	VRS-CY1JF183J	J	18k 1/16W Metal Ox.	AA
R551	VRS-CY1JF472J	J	4.7k 1/16W Metal Ox.	AA
R552	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA

Ref. No.	Part No.	★	Description	Code
R553	VRD-RA2BE823J	J	82k 1/8W Carbon	AA
R554	VRD-RA2BE183J	J	18k 1/8W Carbon	AA
R605	VRD-RM2HD331J	J	330 1/2W Carbon	AA
R606	VRD-RM2HD271J	J	270 1/2W Carbon	AA
△ R607	VRS-RG3LB102J	M	1k 3W Metal Ox. (32J-S400/CJ32S40)	AB
△ R607	VRS-RG3LB152J	M	1.5k 3W Metal Ox. (36J-S400/CJ36S40)	AA
△ R608	VRS-RG3DB391J	M	390 2W Metal Ox.	AA
△ R609	VRS-RG3AB562J	M	5.6k 1W Metal Ox.	AA
R610	VRD-RM2HD220J	J	22 1/2W Carbon	AA
△ R611	VRW-KQ41C3R3K	J	3.3 15W Cement	AG
△ R621	VRN-RL3DB2R2J	M	2.2 2W Metal Film	AA
	or			
	VRN-RL3DB1R8J	J	1.8 2W Metal Film (32J-S400/CJ32S40)	
△ R621	VRN-RL3DB3R3J	M	3.3 2W Metal Film (36J-S400/CJ36S40)	AA
△ R623	VRN-RL3AB1R0J	M	1 1W Metal Film	AA
△ R624	VRS-RG3DB332J	M	3.3k 2W Metal Ox.	AA
R625	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R631	VRS-CY1JF391J	J	390 1/16W Metal Ox.	AA
R632	VRS-CY1JF152J	J	1.5k 1/16W Metal Ox.	AA
R633	VRS-CY1JF472J	J	4.7k 1/16W Metal Ox.	AA
R634	VRD-RM2HD101J	J	100 1/2W Carbon	AA
▲△ R651	VRN-RL2HC1R0J	M	1 1/2W Metal Film	AA
▲△ R652	VRD-RA2EE103J	J	10k 1/4W Carbon (32J-S400/CJ32S40)	AA
▲△ R652	VRD-RA2EE683J	J	68k 1/4W Carbon (36J-S400/CJ36S40)	AA
▲△ R653	VRD-RA2EE562J	J	5.6k 1/4W Carbon	AA
▲△ R654	VRD-RA2EE393J	J	39k 1/4W Carbon (32J-S400/CJ32S40)	AA
△ R654	VRD-RA2EE682J	J	68k 1/4W Carbon (36J-S400/CJ36S40)	AA
R655	VRS-CY1JF104J	J	100k 1/16W Metal Ox.	AA
△ R658	VRS-RG3DB123J	J	12k 2W Metal Ox. (32J-S400/CJ32S40)	AA
△ R658	VRS-RG3DB153J	J	15k 2W Metal Ox. (36J-S400/CJ36S40)	AA
R671	VRD-RA2BE222J	J	2.2k 1/8W Carbon	AA
R672	VRS-CY1JF822J	J	8.2k 1/16W Metal Ox.	AA
R673	VRD-RA2BE822J	J	8.2k 1/8W Carbon	AA
R674	VRS-CY1JF272J	J	2.7k 1/16W Metal Ox.	AA
R677	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R679	VRD-RA2BE392J	J	3.9k 1/8W Carbon (32J-S400/CJ32S40)	AA
R679	VRD-RA2BE332J	J	3.3k 1/8W Carbon (36J-S400/CJ36S40)	AA
R680	VRS-CY1JF562J	J	5.6k 1/16W Metal Ox. (32J-S400/CJ32S40)	AA
R680	VRS-CY1JF682J	J	6.8k 1/16W Metal Ox. (36J-S400/CJ36S40)	AA
R681	VRS-CY1JF123J	J	12k 1/16W Metal Ox.	AA
R682	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R683	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R684	VRD-RA2BE472J	J	4.7k 1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK9301WEK0/K1									
MAIN UNIT(Continued)									
R685	VRD-RA2BE562J	J	5.6k 1/8W	Carbon AA	R906	VRS-CY1JF392J	J	3.9k 1/16W	Metal Ox. AA
R686	VRD-RA2EE222J	J	2.2k 1/4W	Carbon AA	R907	VRS-CY1JF182J	J	1.8k 1/16W	Metal Ox. AA
R687	VRS-CY1JF103J	J	10k 1/16W	Metal Ox. AA	R908	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
△ R688	VRN-RL3DB3R3J	M	3.3 2W	Metal Film AA	R910	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
R689	VRS-CY1JF274J	J	270k 1/16W	Metal Ox. AA	R911	VRS-CY1JF683J	J	68k 1/16W	Metal Ox. AA
△ R690	VRS-RG3LB561J	M	560 3W	Metal Ox. AB	R912	VRS-CY1JF223J	J	22k 1/16W	Metal Ox. AA
R691	VRG-RL2HB101J	J	100 1/2W	AB	R913	VRS-CY1JF392J	J	3.9k 1/16W	Metal Ox. AA
△ R701	VRC-UB2HG395K	M	3.9M 1/2W	Solid AB	R914	VRS-CY1JF182J	J	1.8k 1/16W	Metal Ox. AA
△ R702	VRW-KQ4AC1R2K	M	1.2 10W	Cement AD	R915	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
△ R703	VRS-RG3LB101J	J	100 3W	Metal Ox. AC	R922	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
R704	VRD-RM2HD154J	J	150k 1/2W	Carbon AA	R923	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
△ R705	VRN-RL3DBR22J	J	0.22 2W	Metal Film AA	R924	VRD-RA2EE750J	J	75 1/4W	Carbon AA
△ R706	VRN-RL3DBR27J	M	0.27 2W	Metal Film AA	R925	VRS-CY1JF104J	J	100k 1/16W	Metal Ox. AA
			(32J-S400/CJ32S40)		R926	VRS-CY1JF104J	J	100k 1/16W	Metal Ox. AA
△ R706	VRN-RL3DBR22J	J	0.22 2W	Metal Film AA	R927	VRD-RA2EE750J	J	75 1/4W	Carbon AA
			(36J-S400/CJ36S40)		R928	VRD-RA2EE750J	J	75 1/4W	Carbon AA
R707	VRS-RG2HC681J	J	680 1/2W	Metal Ox. AA	R929	VRS-CY1JF101J	J	100 1/16W	Metal Ox. AA
R709	VRN-GA2EB1R0J	J	1 1/4W	Metal Film AA	R930	VRS-CY1JF563J	J	56k 1/16W	Metal Ox. AA
R710	VRD-RM2HD330J	J	33 1/2W	Carbon AA	R931	VRS-CY1JF333J	J	33k 1/16W	Metal Ox. AA
R711	VRD-RA2BE332J	J	3.3k 1/8W	Carbon AA	R932	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
R712	VRD-RA2EE332J	J	3.3k 1/4W	Carbon AA	R933	VRS-CY1JF122J	J	1.2k 1/16W	Metal Ox. AA
△ R715	VRS-RG3DB153J	J	15k 2W	Metal Ox. AA	R934	VRS-CY1JF473J	J	47k 1/16W	Metal Ox. AA
△ R723	VRN-RL3ABR39J	M	0.39 1W	Metal Film AA	R935	VRS-CY1JF101J	J	100 1/16W	Metal Ox. AA
R724	VRS-RG2HC332J	J	3.3k 1/2W	Metal Ox. AA	R936	VRS-CY1JF473J	J	47k 1/16W	Metal Ox. AA
△ R725	VRS-RG3AB182J	J	1.8k 1W	Metal Ox. AA	R937	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
R726	VRD-RM2HD102J	J	1k 1/2W	Carbon AA	R938	VRS-CY1JF122J	J	1.2k 1/16W	Metal Ox. AA
△ R727	VRN-RL3LB2R7J	M	2.7 3W	Metal Film AB	R939	VRS-CY1JF122J	J	1.2k 1/16W	Metal Ox. AA
R734	VRD-RM2HD124J	J	120k 1/2W	Carbon AA	R940	VRS-CY1JF122J	J	1.2k 1/16W	Metal Ox. AA
△ R737	VRN-RL3DBR56J	J	0.56 2W	Metal Film AA	R941	VRS-CY1JF273J	J	27k 1/16W	Metal Ox. AA
R751	VRS-CY1JF473J	J	47k 1/16W	Metal Ox. AA	R942	VRS-CY1JF273J	J	27k 1/16W	Metal Ox. AA
△ R753	VRS-RG3AB391J	M	390 1W	Metal Ox. AA	R943	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
△ R755	VRS-RG3DB220J	M	22 2W	Metal Ox. AA	R951	VRS-CY1JF334J	J	330k 1/16W	Metal Ox. AA
R759	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA	R952	VRS-CY1JF101J	J	100 1/16W	Metal Ox. AA
R801	VRD-RA2BE332J	J	3.3k 1/8W	Carbon AA	R953	VRS-CY1JF334J	J	330k 1/16W	Metal Ox. AA
R802	VRS-CY1JF332J	J	3.3k 1/16W	Metal Ox. AA	R954	VRS-CY1JF334J	J	330k 1/16W	Metal Ox. AA
R803	VRS-CY1JF222J	J	2.2k 1/16W	Metal Ox. AA	R955	VRS-CY1JF101J	J	100 1/16W	Metal Ox. AA
R804	VRS-CY1JF222J	J	2.2k 1/16W	Metal Ox. AA	R956	VRS-CY1JF334J	J	330k 1/16W	Metal Ox. AA
R805	VRS-CY1JF222J	J	2.2k 1/16W	Metal Ox. AA	R957	VRS-CY1JF101J	J	100 1/16W	Metal Ox. AA
R806	VRS-CY1JF333J	J	33k 1/16W	Metal Ox. AA	R958	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
R821	VRS-CY1JF682J	J	6.8k 1/16W	Metal Ox. AA	R959	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA
R822	VRS-CY1JF183J	J	18k 1/16W	Metal Ox. AA	R960	VRS-CY1JF151J	J	150 1/16W	Metal Ox. AA
R823	VRS-CY1JF471J	J	470 1/16W	Metal Ox. AA	R961	VRD-RA2BE101J	J	100 1/8W	Carbon AA
R824	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA	R962	VRD-RA2BE101J	J	100 1/8W	Carbon AA
R825	VRS-CY1JF152J	J	1.5k 1/16W	Metal Ox. AA	R963	VRS-CY1JF331J	J	330 1/16W	Metal Ox. AA
R826	VRS-CY1JF562J	J	5.6k 1/16W	Metal Ox. AA	R1601	VRS-CY1JF101J	J	100 1/16W	Metal Ox. AA
R827	VRS-CY1JF103J	J	10k 1/16W	Metal Ox. AA	R1602	VRS-CY1JF103J	J	10k 1/16W	Metal Ox. AA
R828	VRS-CY1JF103J	J	10k 1/16W	Metal Ox. AA	R1603	VRS-CY1JF103J	J	10k 1/16W	Metal Ox. AA
R829	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA	R1604	VRS-CY1JF152J	J	1.5k 1/16W	Metal Ox. AA
R830	VRD-RA2BE101J	J	100 1/8W	Carbon AA	R1605	VRS-CY1JF391J	J	390 1/16W	Metal Ox. AA
R901	VRS-CY1JF104J	J	100k 1/16W	Metal Ox. AA	R1606	VRS-CY1JF471J	J	470 1/16W	Metal Ox. AA
R902	VRS-CY1JF104J	J	100k 1/16W	Metal Ox. AA	R1607	VRS-CY1JF221J	J	220 1/16W	Metal Ox. AA
R903	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA	R1608	VRS-CY1JF681J	J	680 1/16W	Metal Ox. AA
R904	VRS-CY1JF683J	J	68k 1/16W	Metal Ox. AA	R1609	VRS-CY1JF122J	J	1.2k 1/16W	Metal Ox. AA
R905	VRS-CY1JF223J	J	22k 1/16W	Metal Ox. AA	R2001	VRD-RA2BE562J	J	5.6k 1/8W	Carbon AA
					R2003	VRD-RA2BE102J	J	1k 1/8W	Carbon AA
					R2004	VRD-RA2BE473J	J	47k 1/8W	Carbon AA
					R2006	VRS-CY1JF102J	J	1k 1/16W	Metal Ox. AA

Ref. No.	Part No.	★	Description			Code
PWB-A DUNTK9301WEK0/K1						
MAIN UNIT(Continued)						
R2008	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R2009	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R2010	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA
R2011	VRD-RA2BE821J	J	820	1/8W	Carbon	AA
R2012	VRS-CY1JF471J	J	470	1/16W	Metal Ox.	AA
R2020	VRD-RM2HD223J	J	22k	1/2W	Carbon	AA
R2022	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R2023	VRD-RA2BE102J	J	1k	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-RA2BE682J	J	6.8k	1/8W	Carbon	AA
R2027	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA
R2028	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R2029	VRS-CY1JF103J	J	10k	1/16W	Metal Ox.	AA
R2030	VRS-CY1JF103J	J	10k	1/16W	Metal Ox.	AA
R2032	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R2040	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA
R2041	VRS-CY1JF333J	J	33k	1/16W	Metal Ox.	AA
R2042	VRS-CY1JF101J	J	100	1/16W	Metal Ox.	AA
R2043	VRS-CY1JF333J	J	33k	1/16W	Metal Ox.	AA
R2044	VRS-CY1JF682J	J	6.8k	1/16W	Metal Ox.	AA
R2045	VRS-CY1JF101J	J	100	1/16W	Metal Ox.	AA
R2046	VRD-RA2BE101J	J	100	1/8W	Carbon	AA
R2047	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R2048	VRS-CY1JF562J	J	5.6k	1/16W	Metal Ox.	AA
R2060	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R2061	VRS-CY1JF562J	J	5.6k	1/16W	Metal Ox.	AA
R2062	VRD-RA2BE183J	J	18k	1/8W	Carbon	AA
R2063	VRS-CY1JF222J	J	2.2k	1/16W	Metal Ox.	AA
R2064	VRS-CY1JF332J	J	3.3k	1/16W	Metal Ox.	AA
R2069	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA
R2071	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA
R2072	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA
R2073	VRS-CY1JF102J	J	1k	1/16W	Metal Ox.	AA
R2101	VRS-CY1JF101J	J	100	1/16W	Metal Ox.	AA
R2102	VRS-CY1JF101J	J	100	1/16W	Metal Ox.	AA
R2201	VRS-CY1JF222J	J	2.2k	1/16W	Metal Ox.	AA
R2202	VRS-CY1JF103J	J	10k	1/16W	Metal Ox.	AA
R2203	VRD-RA2BE184J	J	180k	1/8W	Carbon	AA
R2211	VRS-CY1JF222J	J	2.2k	1/16W	Metal Ox.	AA
R2212	VRS-CY1JF682J	J	6.8k	1/16W	Metal Ox.	AA
R2213	VRS-CY1JF333J	J	33k	1/16W	Metal Ox.	AA
R2251	VRS-CY1JF103J	J	10k	1/16W	Metal Ox.	AA
R2255	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R2507	VRS-CY1JF823J	J	82k	1/16W	Metal Ox.	AA
R3001	VRS-CY1JF221J	J	220	1/16W	Metal Ox.	AA
R3002	VRS-CY1JF221J	J	220	1/16W	Metal Ox.	AA
R3003	VRS-CY1JF105J	J	1M	1/16W	Metal Ox.	AA
R3004	VRS-CY1JF104J	J	100k	1/16W	Metal Ox.	AA
R3005	VRS-CY1JF153J	J	15k	1/16W	Metal Ox.	AA
R3006	VRS-CY1JF473J	J	47k	1/16W	Metal Ox.	AA
R3007	VRS-CY1JF332J	J	3.3k	1/16W	Metal Ox.	AA
R3008	VRS-CY1JF152J	J	1.5k	1/16W	Metal Ox.	AA
R3009	VRS-CY1JF152J	J	1.5k	1/16W	Metal Ox.	AA

Ref. No.	Part No.	★	Description			Code
R3010	VRS-CY1JF392J	J	3.9k	1/16W	Metal Ox.	AA
R3011	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R3012	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R3017	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R3018	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R3201	VRS-CY1JF225J	J	2.2M	1/16W	Metal Ox.	AA
R3202	VRS-CY1JF682J	J	6.8k	1/16W	Metal Ox.	AA
R3203	VRS-CY1JF183J	J	18k	1/16W	Metal Ox.	AA
SWITCH						
S502	QSW-B0015CEZZ	J	V-Center			AC
MISCELLANEOUS PARTS						
△ RY701	RRLYU0036CEZZ	J	Relay			AM
△ F701	QFS-B5023CEZZ	J	Fuse 5A (AC125V)			AC
FB601	RBLN-0047CEZZ	J	Ferrite Bead			AB
FB671	RBLN-0047CEZZ	J	Ferrite Bead			AB
FB701	RBLN-0037CEZZ	J	Ferrite Bead			AB
FB702	RBLN-0036CEZZ	J	Ferrite Bead			AB
FB704	RBLN-0037CEZZ	J	Ferrite Bead			AB
FB706	RBLN-0037CEZZ	J	Ferrite Bead			AB
FH701	QFSDH1013CEZZ	J	Fuse Holder			AC
FH702	QFSDH1014CEZZ	J	Fuse Holder			AC
J921	QSOCD0427CEZZ	J	Socket, S-Video			AL
P351	QPLGN0461CEZZ	J	Plug, 4-Pin(S)			AB
P401	QPLGN0561CEZZ	J	Plug, 5-Pin(GBN)			AB
P601	QPLGN0552CEZZ	M	Plug, 6-Pin(K)			AD
P621	QPLGN0461CEZZ	J	Plug, 4-Pin(YBN)			AB
P651	QPLGN0361CEZZ	J	Plug, 3-Pin			AB
P701	QPLGN0404CEZZ	J	Plug, 4-Pin(M)			AB
P703	QPLGN0269GEZZ	J	Plug, 2-Pin(P)			AB
P901	QPLGN0661CEZZ	J	Plug, 6-Pin(EJ)			AD
P2001	QPLGN0361CEZZ	J	Plug, 3-Pin(RA)			AB
P2002	QPLGN0461CEZZ	J	Plug, 4-Pin(KA)			AB
P2401	QPLGN0561CEZZ	J	Plug, 5-Pin			AB
RDA361	PRDAR5006MEFW	M	Heat Sink (IC361)			AE
RDA501	PRDAR0234PEFW	M	Heat Sink (IC501)			AG
RDA601	PRDAR0150PEFW	M	Heat Sink (Q602)			AL
RDA671	PRDAR0093PEFW	M	Heat Sink (Q673)			AF
RDA701	PRDAR0230PEFW	M	Heat Sink (IC701)			AL
			(32J-S400/CJ32S40)			
RDA701	PRDAR1006MEFW	M	Heat Sink (IC701)			AL
			(36J-S400/CJ36S40)			
RDA750	PRDAR5072CEFW	J	Heat Sink (IC751)			AC
TAN921	QTANJ0523CEZZ	M	Terminal			AG
	LHLDW1002PEZZ	J	Holder			AB
	LX-BZ0086TAFD	J	Screw			AA
	LX-BZ3100CEFD	J	Screw			AA

— End of PWB-A —

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-B DUNTK9303WEK0/K1									
CRT UNIT									
TRANSISTORS									
Q850	VS2SC4544LB2E	J	2SC4544	AD	△ R861	VRS-VV3DB273J	J	27k 2W	Metal.Oxide AA
Q851	VS2SC4544LB2E	J	2SC4544	AD	△ R862	VRS-VV3DB273J	J	27k 2W	Metal.Oxide AA
Q852	VS2SC4544LB2E	J	2SC4544	AD	△ R863	VRS-VV3DB273J	J	27k 2W	Metal.Oxide AA
Q853	VS2SC3198-Y-1	J	2SC3198(Y)	AA	△ R864	VRS-VV3DB273J	J	27k 2W	Metal.Oxide AA
Q854	VS2SC3198-Y-1	J	2SC3198(Y)	AA	R868	VRD-RM2HD224J	J	220k 1/2W	Carbon AA
Q855	VS2SC3198-Y-1	J	2SC3198(Y)	AA	R870	VRD-RA2BE471J	J	470 1/8W	Carbon AA
Q894	VS2SA1266-Y-1	J	2SC3198(Y)	AA	R871	VRD-RA2BE471J	J	470 1/8W	Carbon AA
DIODES					R872	VRD-RA2BE471J	J	470 1/8W	Carbon AA
D850	VHD1SS119/-1	J	Diode	AB	R873	VRD-RA2BE220J	J	22 1/8W	Carbon AA
D851	VHD1SS119/-1	J	Diode	AB	R874	VRD-RA2BE220J	J	22 1/8W	Carbon AA
D852	VHD1SS119/-1	J	Diode	AB	R875	VRD-RA2BE220J	J	22 1/8W	Carbon AA
D894	VHD1SS119/-1	J	Diode	AB	R876	VRD-RA2BE121J	J	120 1/8W	Carbon AA
D895	VHD1SS119/-1	J	Diode	AB	R877	VRD-RA2BE121J	J	120 1/8W	Carbon AA
D896	RH-EX0298CEZZ	J	Zener Diode	AA	R878	VRD-RA2BE121J	J	120 1/8W	Carbon AA
D897	VHD1SS119/-1	J	Diode	AB	R880	VRC-MA2HG332K	J	3.3k 1/2W	Solid AA
D898	VHD1SS119/-1	J	Diode	AB	R881	VRC-MA2HG332K	J	3.3k 1/2W	Solid AA
COILS					R882	VRC-MA2HG332K	J	3.3k 1/2W	Solid AA
L852	VP-MK221K0000	J	Peaking 220μH	AB	R883	VRD-RA2BE221J	J	220 1/8W	Carbon AA
L853	VP-MK221K0000	J	Peaking 220μH	AB	R884	VRD-RA2BE221J	J	220 1/8W	Carbon AA
L854	VP-MK221K0000	J	Peaking 220μH	AB	R885	VRD-RA2BE221J	J	220 1/8W	Carbon AA
CAPACITORS					R886	VRD-RA2BE471J	J	470 1/8W	Carbon AA
<i>[EL.... Electrolytic]</i>					R887	VRD-RA2BE471J	J	470 1/8W	Carbon AA
C850	VCKYPA1HF103Z	J	0.01 50V	Ceramic AA	R888	VRD-RA2BE471J	J	470 1/8W	Carbon AA
C851	VCEAGA1CW476M	J	47 16V	EL. AB	R891	VRD-RA2BE561J	J	560 1/8W	Carbon AA
C876	VCCSPA1HL561J	J	560p 50V	Ceramic AA	R892	VRD-RA2BE331J	J	330 1/8W	Carbon AA
C877	VCCSPA1HL471J	J	470p 50V	Ceramic AA	R894	VRD-RA2BE152J	J	1.5k 1/8W	Carbon AA
C878	VCCSPA1HL561J	J	560p 50V	Ceramic AA	R895	VRD-RA2EE561J	J	560 1/4W	Carbon AA
C880	RC-KZ0153CEZZ	J	0.001 3kV	Ceramic AB	MISCELANEOUS PARTS				
C892	VCEAGA1CW106M	J	10 16V	EL. AA	P860	QPLGN0461CEZZ	J	Plug, 4-Pin(YBN)	AB
C893	VCEAGA1CW106M	J	10 16V	EL. AA	P880	QPLGN0561CEZZ	J	Plug, 5-Pin(GBN)	AB
C895	VCEAGA1CW226M	J	22 16V	EL. AB	SC801	QSOCV0929CEZZ	J	CRT Socket (32J-S400/CJ32S40)	AM
RESISTORS					SC801	QSOCV1005CEZZ	J	CRT Socket (36J-S400/CJ36S40)	AM
<i>[Metal Ox.... Metal Oxide]</i>									
R840	RR-HZ0048CEZZ	J	3.9W 1/2W (36J-S400/CJ36S40)						
R841	RR-HZ0048CEZZ	J	3.9W 1/2W (36J-S400/CJ36S40)						
R849	VRD-RA2BE151J	J	150 1/8W	Carbon AA					
R850	VRD-RA2BE561J	J	560 1/8W	Carbon AA					
R851	VRD-RA2BE561J	J	560 1/8W	Carbon AA					
R852	VRD-RA2BE561J	J	560 1/8W	Carbon AA					
R854	VRD-RA2BE151J	J	150 1/8W	Carbon AA					
R855	VRD-RA2BE151J	J	150 1/8W	Carbon AA					
R856	VRD-RA2BE121J	J	120 1/8W	Carbon AA					
R857	VRD-RA2BE121J	J	120 1/8W	Carbon AA					
R858	VRD-RA2BE121J	J	120 1/8W	Carbon AA					
△ R859	VRS-VV3DB273J	J	27k 2W	Metal Ox. AA					
△ R860	VRS-VV3DB273J	J	27k 2W	Metal Ox. AA					

— End of PWB-B —

Ref. No.	Part No.	★	Description	Code
PWB-F DUNTK8672WEK4				
CONTROL UNIT				

CAPACITORS

C4001	VCEAGA1HW475M	J	4.7	50V	Electrolytic	AB
C4002	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C4003	VCEAGA1HW105M	J	1	50V	Electrolytic	AC

RESISTORS

R4001	VRD-RA2EE103J	J	10k	1/4W	Carbon	AA
R4003	VRD-RA2EE273J	J	27k	1/4W	Carbon	AA
R4004	VRD-RA2EE563J	J	56k	1/4W	Carbon	AA
R4005	VRD-RA2EE331J	J	330	1/4W	Carbon	AA
R4006	VRD-RA2EE563J	J	56k	1/4W	Carbon	AA
R4007	VRD-RA2EE123J	J	12k	1/4W	Carbon	AA
R4008	VRD-RA2EE750J	J	75	1/4W	Carbon	AA
R4009	VRD-RA2EE153J	J	15k	1/4W	Carbon	AA
R4010	VRD-RA2EE272J	J	2.7k	1/4W	Carbon	AA

MISCELLANEOUS PARTS

S4001	QSW-K0068CEZZ	J	Power			AB
S4002	QSW-K0068CEZZ	J	CH-Up			AB
S4003	QSW-K0068CEZZ	J	CH-Down			AB
S4004	QSW-K0068CEZZ	J	Vol-Up			AB
S4005	QSW-K0068CEZZ	J	Vol-Down			AB
P4001	QPLGN0461CEZZ	J	Plug, 4-Pin(KA)			AB
	QCNW-0140MEZZ	M	Connecting Cord			AD
	QCNW-0141MEZZ	M	Connecting Cord			AE
	QCNW-0142MEZZ	M	Connecting Cord			AH

Ref. No.	Part No.	★	Description	Code
PWB-G DUNTK8673WEK4				
R/C UNIT				

CAPACITORS

C4001	VCEAGA1HW475M	J	4.7	50V	Electrolytic	AB
C4002	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C4003	VCEAGA1HW105M	J	1	50V	Electrolytic	AC

RESISTORS

R4005	VRD-RA2EE331J	J	330	1/4W	Carbon	AA
R4008	VRD-RA2EE750J	J	75	1/4W	Carbon	AA

MISCELLANEOUS PARTS

J1501	QJAKE0055GEZZ	J	Jack, Audio-L			AD
J1502	QJAKE0060GEZZ	J	Jack, Audio-R			AC
J1503	QJAKE0053GEZZ	J	Jack, Video-In			AD
P4002	QPLGN0361CEZZ	J	Plug, 3-Pin(RA)			AB
P4004	QPLGN0661CEZZ	J	Plug, 6-Pin(EJ)			AD
RMC4001	RRMCU0216CEZZ	J	R/C Receiver			AK
	QCNW-0141MEZZ	M	Connecting Cord			AE
	QCNW-0142MEZZ	M	Connecting Cord			AH

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-R DUNTK9255WEK1									
P-IN-P UNIT									
INTEGRATED CIRCUITS									
IC1701	VHiTA7348P/-1	J	TA7348P	AK	C1733	RC-QZA472TAYJ	J	0.047 50V Mylar	AB
IC1751	VHiKA7805Pi/-1	J	KiA7805Pi	AE	C1741	RC-QZA473TAYJ	J	0.047 50V Mylar	AB
IC1801	VHiM65617SP/-1	M	M65617SP	BC	C1742	VCEAGA1HW105M	J	1 50V EL.	AC
TRANSISTORS					C1743	RC-QZA472TAYJ	J	0.047 50V Mylar	AB
You can substitute "VS2SD601AR/-1" for "VS2SC2462-C-1."					C1751	VCEAGA1CW476M	J	47 16V EL.	AB
Q1701	VS2SD601AR/-1	R	2SD601(AR)	AC	C1752	VCEAGA1AW107M	J	100 10V EL.	AB
Q1730	VS2SB709AR/-1	J	2SB709(AR)	AC	C1753	VCEAGA1CW106M	J	10 16V EL.	AA
or					C1801	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
	VS2SA812-M51E	J	2SA812	AC	C1802	VCCCCY1HH120J	J	12p 50V Ceramic	AA
Q1731	VS2SB709AR/-1	J	2SB709(AR)	AC	C1804	VCCCCY1HH150J	J	15p 50V Ceramic	AA
or					C1805	RC-QZA154TAYJ	J	0.15 50V Mylar	AC
	VS2SA812-M51E	J	2SA812	AC	C1806	RC-QZA103TAYJ	J	0.01 50V Mylar	AB
Q1732	VS2SD601AR/-1	J	2SD601(AR)	AC	C1807	RC-QZA224TAYJ	J	0.22 50V Mylar	AD
Q1741	VS2SB709AR/-1	J	2SB709(AR)	AC	C1808	RC-QZA224TAYJ	J	0.22 50V Mylar	AD
or					C1809	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
	VS2SA812-M51E	J	2SA812	AC	C1810	VCEAGA1CW106M	J	10 16V EL.	AA
Q1742	VS2SD601AR/-1	R	2SD601(AR)	AC	C1811	VCEAGA1CW106M	J	10 16V EL.	AA
Q1752	VS2SC1959Y/1E	J	2SC1959	AC	C1812	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
Q1802	VS2SD601AR/-1	R	2SD601(AR)	AC	C1813	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
Q1803	VS2SD601AR/-1	R	2SD601(AR)	AC	C1814	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
Q1804	VS2SD601AR/-1	R	2SD601(AR)	AC	C1815	VCEAGA1CW106M	J	10 16V EL.	AA
Q1831	VS2SB709AR/-1	J	2SB709(AR)	AC	C1816	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
or					C1817	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
	VS2SA812-M51E	J	2SA812	AC	C1818	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
DIODES					C1819	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
D1752	RH-EX0287CEZZ	M	Zener Diode		C1820	VCEAGA1CW106M	J	10 16V EL.	AA
D1801	VHD1SS119/-1	J	Diode	AB	C1822	VCEAGA1CW106M	J	10 16V EL.	AA
D1802	VHD1SS119/-1	J	Diode	AB	C1824	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
COILS AND CRYSTAL					C1825	VCCCCY1HH680J	J	68p 50V Ceramic	AA
X1801	RCRSB0241CEZZ	M	Crystal, 3.58MHz	AE	C1826	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
L1701	VP-XF680K0000	J	Peaking 68μH	AB	C1827	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
L1801	VP-XF1R5J0000	M	Peaking 1.5μH	AA	C1828	VCCCCY1HH151J	J	150p 50V Ceramic	AA
L1802	VP-XF2R2J0000	M	Peaking 2.2μH	AA	C1829	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
L1803	VP-XF100K0000	J	Peaking 10μH	AB	C1832	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
L1804	VP-XF100K0000	J	Peaking 10μH	AB	C1833	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
L1805	VP-XF100K0000	J	Peaking 10μH	AB	C1834	VCEAGA1CW106M	J	10 16V EL.	AA
L1806	VP-XF100K0000	J	Peaking 10μH	AB	C1837	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
L1810	VP-XF100K0000	J	Peaking 10μH	AB	C1838	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
CAPACITORS					C1839	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
<i>[EL... Electrolytic]</i>					RESISTORS				
C1701	VCEAGA1CW106M	J	10 16V EL.	AA	<i>[Metal Ox... Metal Oxide]</i>				
C1702	VCEAGA1CW106M	J	10 16V EL.	AA	R1701	VRS-CY1JF101J	J	10 1/16W Metal Ox.	AA
C1703	VCEAGA1CW106M	J	10 16V EL.	AA	R1702	VRS-CY1JF101J	J	10 1/16W Metal Ox.	AA
C1704	VCEAGA1CW106M	J	10 16V EL.	AA	R1703	VRS-CY1JF101J	J	10 1/16W Metal Ox.	AA
C1705	VCEAGA1CW476M	J	47 16V EL.	AB	R1704	VRD-RA2BE332J	J	3.3k 1/8W Carbon	AA
C1706	VCCCCY1HH330J	J	33p 50V Ceramic	AA	R1705	VRS-CY1JF822J	J	8.2k 1/16W Metal Ox.	AA
C1731	RC-QZA473TAYJ	J	0.047 50V Mylar	AB	R1706	VRS-CY1JF103J	J	10k 1/16W Metal Ox.	AA
C1732	VCEAGA1HW105M	J	1 50V EL.	AC	R1707	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
					R1729	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
					R1730	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
					R1731	VRS-CY1JF151J	J	150 1/16W Metal Ox.	AA
					R1732	VRS-CY1JF122J	J	1.2k 1/16W Metal Ox.	AA
					R1733	VRS-CY1JF104J	J	10k 1/16W Metal Ox.	AA
					R1734	VRS-CY1JF183J	J	18k 1/16W Metal Ox.	AA
					R1735	VRS-CY1JF122J	J	1.2k 1/16W Metal Ox.	AA

Ref. No.	Part No.	★	Description	Code
PWB-R DUNTK9255WEK1 P-IN-P UNIT(Continued)				
R1736	VRS-CY1JF223J	J	22k 1/16W Metal Ox.	AA
R1737	VRS-CY1JF153J	J	15k 1/16W Metal Ox.	AA
R1738	VRS-CY1JF153J	J	15k 1/16W Metal Ox.	AA
R1741	VRS-CY1JF151J	J	150 1/16W Metal Ox.	AA
R1742	VRS-CY1JF122J	J	1.2k 1/16W Metal Ox.	AA
R1743	VRS-CY1JF474J	J	470k 1/16W Metal Ox.	AA
R1745	VRS-CY1JF122J	J	1.2k 1/16W Metal Ox.	AA
R1746	VRS-CY1JF562J	J	5.6k 1/16W Metal Ox.	AA
R1748	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R1749	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R1757	VRD-RA2BE151J	J	150 1/8W Carbon	AA
R1801	VRS-CY1JF301J	J	300 1/16W Metal Ox.	AA
R1802	VRS-CY1JF104J	J	10k 1/16W Metal Ox.	AA
R1803	VRS-CY1JF824J	J	820k 1/16W Metal Ox.	AA
R1804	VRS-CY1JF202J	J	2k 1/16W Metal Ox.	AA
R1805	VRS-CY1JF473J	J	47k 1/16W Metal Ox.	AA
R1807	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R1808	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R1809	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R1810	VRS-CY1JF123J	J	12k 1/16W Metal Ox.	AA
R1811	VRS-CY1JF103J	J	10k 1/16W Metal Ox.	AA
R1812	VRS-CY1JF473J	J	47k 1/16W Metal Ox.	AA
R1813	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R1814	VRS-CY1JF123J	J	12k 1/16W Metal Ox.	AA
R1815	VRS-CY1JF103J	J	10k 1/16W Metal Ox.	AA
R1816	VRS-CY1JF473J	J	47k 1/16W Metal Ox.	AA
R1817	VRS-CY1JF101J	J	100 1/16W Metal Ox.	AA
R1818	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
R1819	VRS-CY1JF153J	J	15k 1/16W Metal Ox.	AA
R1821	VRS-CY1JF153J	J	15k 1/16W Metal Ox.	AA
R1822	VRS-CY1JF471J	J	470 1/16W Metal Ox.	AA
R1823	VRS-CY1JF391J	J	390 1/16W Metal Ox.	AA
R1824	VRS-CY1JF153J	J	15k 1/16W Metal Ox.	AA
R1825	VRS-CY1JF103J	J	10k 1/16W Metal Ox.	AA
R1829	VRS-CY1JF123J	J	12k 1/16W Metal Ox.	AA
R1832	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA
R1881	VRS-CY1JF222J	J	2.2k 1/16W Metal Ox.	AA
R1882	VRS-CY1JF272J	J	2.7k 1/16W Metal Ox.	AA
R1884	VRS-CY1JF102J	J	1k 1/16W Metal Ox.	AA

MISCELLANEOUS PARTS

P1701	QPLGZ0810CEZZ	J	Plug, 8-Pin	AD
P1702	QPLGZ0610CEZZ	J	Plug, 6-Pin	AB
P1703	QPLGZ0810CEZZ	J	Plug, 8-Pin	AD
SLD1801	PSLDM0012MEFW	M	Shield Case	AA

— End of PWB-R —

Ref. No.	Part No.	★	Description	Code
MISCELLANEOUS PARTS				
△ ACC701	QACCD3052CESA	M	AC Cord	AG
	or			
	QACCD3039CESA			
	QCNW-0138MEZZ	M	Connecting Cord (32J-S400/CJ32S40)	AD
	QCNW-0144MEZZ	M	Connecting Cord (36J-S400/CJ36S40)	AD
	QCNW-0139MEZZ	M	Connecting Cord (32J-S400/CJ32S40)	AE
	QCNW-0145MEZZ	M	Connecting Cord (36J-S400/CJ36S40)	AE
	QCNW-0143MEZZ	M	Connecting Cord	AF
	QEARC3102MEZZ	M	Ground-Part (32J-S400/CJ32S40)	AH
	QEARC3502MEZZ	M	Ground-Part (36J-S400/CJ36S40)	AH
	VSP1306PB036S	M	Speaker, 2pcs	AQ

— End of MISCELLANEOUS PARTS —

SUPPLIED ACSESSORIES

RRMCG1326CESA	M	Infrared R/C Unit	AW
TGAN-1006MEZZ	M	Guarantee Card	AA
TINS-6079MEZZ	M	Operation Manual	AD

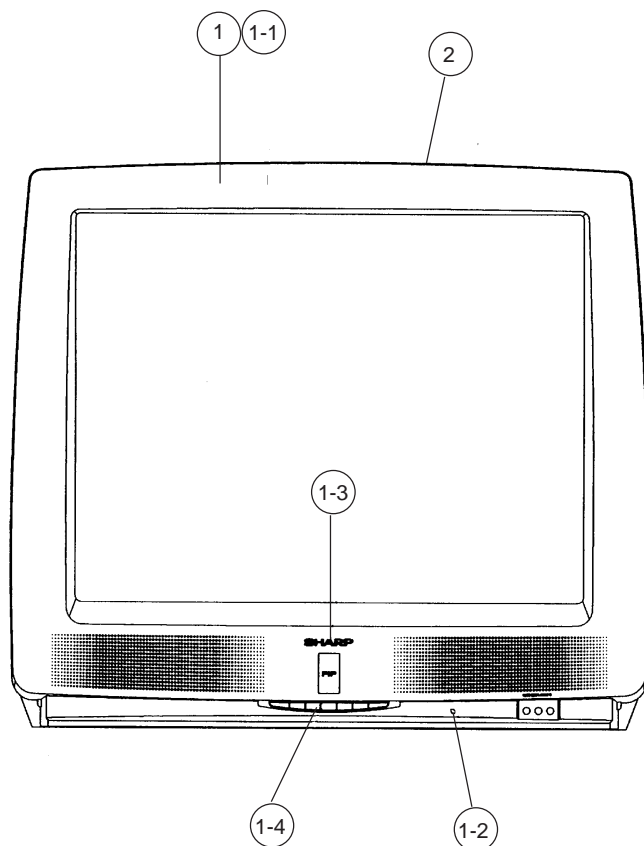
— End of SUPPLIED ACSESSORIES —

**PACKING PARTS
(NOT REPLACEMENT ITEM)**

SPAKC0575MEZZ	-	Packing Case (32J-S400/CJ32S40)	—
SPAKC0576MEZZ	-	Packing Case (36J-S400/CJ36S40)	—
SPAKX0154MEZZ	-	Buffer Material (32J-S400/CJ32S40)	—
SPAKX0155MEZZ	-	Buffer Material (36J-S400/CJ36S40)	—
SSAKA0004MEZZ	-	Polyethylene Bag	—
SPAKF0032MEZZ	-	Packing Material	—

— End of Packing Parts —

Ref. No.	Part No.	★	Description	Code
CABINET PARTS				
1	CCABA1286WEV0	M	Cabinet Ass'y, Front (36J-S400/CJ36S40)	BS
1	CCABA1285WEV0	M	Cabinet Ass'y, Front (32J-S400/CJ32S40)	BN
1-1	<i>Not Available</i>	-	Front Cabinet	—
1-2	GCOVA1019MEKA	M	Cover	AC
1-3	HBDGB3014MESA	M	Badge, "SHARP" (36J-S400/CJ36S40)	AH
1-3	HBDGB1009MESA	M	Badge, "SHARP" (32J-S400/CJ32S40)	AD
1-4	JBTN-1072MEKA	M	Button, Power, Vol-Up/Down, CH-Up/Down	AK
2	GCABB1127MEKA	M	Cabinet, Rear (36J-S400/CJ36S40)	BL
2	GCABB1121MEKA	M	Cabinet, Rear (32J-S400/CJ32S40)	BF



PACKING OF THE SET

● SETTING POSITIONS OF THE KNOBS

Power SW	OFF
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