

TX-28LDP4F Service Manual

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Service Support

Service and repair of this product is supported by Panasonic's LUCI interface.

This interface provides a link between the TV and a standard PC to allow a number of diagnostic and control functions to be performed.

For more details contact your local Panasonic company.


BACK

EXIT

Audio

Control

Dolby

Power supply

Video

←
BACK

E - PCB

K - PCB

Y - PCB

←
BACK

E - Schematic

H - Schematic

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BACK

Service Manual



Colour Television

TX-28LDP4F

EURO4 Chassis

SPECIFICATIONS

Power Source:	220-240V AC, 50Hz
Power Consumption:	90W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Standby Power Consumption:	1,8W
Receiving System:	PAL-I, B/G, H, D/K, PAL-525/60 SECAM L/L' B/G, D/K M.NTSC NTSC (AV only)

Receiving Channels:

VHF E2-E12	VHF H1-H2 (ITALY)
VHF A-H (ITALY)	VHF R1-R2
VHF R3-R5	VHF R6-R12
UHF E21-E69	CATV (S01-S05)
CATV S1-S10 (M1-M10)	CATV S11-S20 (U1-U10)
CATV S21-S41 (HYPERBAND)	

Intermediate Frequency:

Video	38,9MHz, 34MHz
Sound	32,9MHz, 33,4MHz, 33,16MHz 32,4MHz, 40,4MHz, 33,05MHz 32,66MHz
Colour	34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)

Video/Audio Terminals:

AV1 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	
AV1 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV2 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω (21 pin) C: 0.3V p-p 75Ω
AV2 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
	Selectable Output (21 pin)	
AV3 IN	Audio (RCAx2)	500mV rms 10kΩ
	Video (RCAx1)	1V p-p 75Ω
	5 x Dolby Surround Out RCA	

DOLBY SURROUND OUT REAR

High Voltage:	28,5kV ±1kV
Picture Tube:	A66ECF50X41 66cm
Audio Output:	2 x 20W (Music Power) 8Ω Impedance

Headphones:

Accessories supplied:	8Ω Impedance Remote Control 2 x R6 (UM3) Batteries
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Dimensions:

Height:	596,5mm
Width:	778mm
Depth:	481mm
Net Weight:	32kg

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO4 technical guide.

CARACTÉRISTIQUES

Alimentation:	220-240V AC, 50Hz
Consommation:	90W
Impédance d'antenne:	75Ω asymétrique sur prise coaxiale
Standby Consommation:	1,8W
Système de réception:	PAL-I, B/G, H, D/K, PAL-525/60 SECAM L/L' B/G, D/K M.NTSC NTSC (Entrée AV seulement)

Canaux de réception:

VHF E2-E12	VHF H1-H2 (ITALY)
VHF A-H (ITALY)	VHF R1-R2
VHF R3-R5	VHF R6-R12
UHF E21-E69	CATV (S01-S05)
CATV S1-S10 (M1-M10)	CATV S11-S20 (U1-U10)
CATV S21-S41 (HYPERBAND)	

Fréquence Intermédiaire:

Video	38,9MHz, 34MHz
Sound	32,9MHz, 33,4MHz, 33,16MHz 32,4MHz, 40,4MHz, 33,05MHz 32,66MHz
Couleur	34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)

Les bornes vidéo/audio:

Entrée AV1 (21 broches)	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	
Sorties AV1 (21 broches)	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
Entrée AV2 (21 broches)	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω (21-pin) C: 0.3V p-p 75Ω
Sorties AV2 (21 broches)	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
	Être sélectionnée	
Entrée AV3	Audio (RCAx2)	500mV rms 10kΩ
	Video (RCAx1)	1V p-p 75Ω
	5 x Sorties Dolby Surround RCA	

SORTIE DOLBY SURROUND ARRIÈRE

Tension d'anode:	28,5kV ±1kV
Tube image:	A66ECF50X41 66cm
Sortie Audio:	2 x 20W (Music Power) 8Ω Impédance

Casque d'écoute:

Accessories fournis:	8Ω Impédance Télécommande R6 (UM3) x 2 Piles
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Dimensions:

Hauteur:	596,5mm
Largeur:	778mm
Profondeur:	481mm
Poids (NET):	32kg

Les caractéristiques techniques sont susceptibles de modification sans Préavis.

Le poids et les dimensions indiqués sont approximatifs.

Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 29,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

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PRECAUTIONS DE SECURITE

CONSEILS GENERAUX

1. Avant d'effectuer toute révision d'un châssis sous tension il est recommandé d'installer un transformateur d'isolation.
2. Il est important, lors des réparations, de conserver la position initial de tous les fils et faisceaux, surtout dans le circuit de la haute tension. Remplacer toutes les pièces affectées par la chaleur dégagée lors d'un court-circuit.
3. Après les réparations, s'assurer que toutes les pièces protectrices telle que barrières ou papiers isolant, blindages et réseaux d'isolation R-C soient convenablement placées.
4. Il est préférable de débrancher le fil d'alimentation si la télé-couleur ne doit pas être utilisée pendant un certain temps.
5. Une tension élevée, de l'ordre de 29,5kV, est présente en plusieurs endroits lorsque l'appareil est en circuit. Il y a danger de chocs électriques lorsque le contact est établi en absence du panneau arrière. Toute personne qui tente de réparer cet appareil doit d'abord être consciente des précautions à observer avant de travailler sur un circuit à haute tension. Toujours décharger l'anode du tube cathodique au châssis avant de manipuler.
6. Après tout réparation, on doit effectuer les tests de courant de fuite dans le but d'éviter tout choc.

VERIFICATION DES COURANTS DE FUITE SANS ALIMENTATION

1. Débrancher le fil d'alimentation et installer un fil STRAP entre les deux broches de la fiche.
2. Placer l'interrupteur comme pour établir le contact sur l'appareil.
3. Mesurer la résistance entre les branches de la fiche d'alimentation et les pièces métalliques visibles telles que têtes de vis, antennes, arbre des commandes, support des poignées, etc. Certaines de ces pièces sont en contact avec le châssis et la résistance mesurée devrait se situer entre 4MΩ et 20MΩ. La résistance des pièces qui ne sont pas en contact avec le châssis doit être infinie.

LEAKAGE CURRENT HOT CHECK

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k Ω 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 V rms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

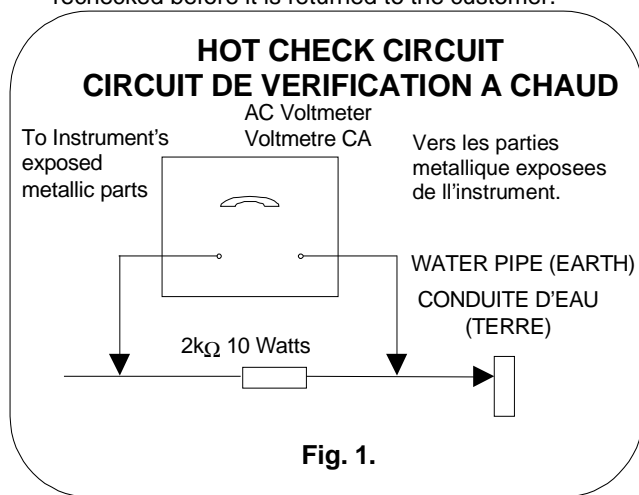


Fig. 1.

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 29,5kV without causing X-Radiation.

NOTE : It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 28,5kV \pm 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

VERIFICATION A CHAUD DU COURANT DE FUITE

1. Brancher le cordon secteur directement à une prise secteur. Ne pas utiliser de transformateur d'isolation pour cette vérification.
2. Raccorder une résistance de 2k Ω , 10W, en série avec une partie métallique exposée du récepteur et une terre comme une conduite d'eau.
3. Utiliser un voltmètre CA, de type à impédance élevée, pour mesurer le potentiel à travers la résistance.
4. Vérifier toutes les parties métalliques exposées et mesurer la tension à chaque point.
5. Retourner la fiche CA dans la prise secteur et répéter toutes les mesures ci-dessus.
6. Le potentiel à tous les points ne doit pas dépasser 1,4 volt rms. Au cas où une mesure est supérieure à cette limite spécifiée, il y a un risque de décharge électrique et le récepteur doit être réparé et revérifié avant d'être rendu au client.

IRRADIATION AUX RAYONS X ATTENTION :

1. Les parties de la haute tension et du tube-cathodique d'une télé-couleur sont des sources possible d'émissions de rayons X.
2. Si un tube cathodique témoin est utilisé pour la réparation, s'assurer que son assemblage pourra supporter 29,5kV sans, émettre de radiations.

REMARQUE : Il est important que le multimètre à haute tension utilisé soit étalonné périodiquement.

1. Tourner entièrement la gauche la commande de lumière.
2. Mesurer la haute tension à l'aide du multimètre approprié. La valeur nominale est de 28,5kV \pm 1kV. la lecture est hors des tolérances, une réparation immédiate s'impose afin de prévenir toute panne prématurée.
3. Il est essentiel d'utiliser le tube cathodique d'origine pour prévenir toute émission de rayons X.

SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 16 screws (A) as shown in Fig.2.

SUGGESTIONS DE DEPANNAGE

COMMENT RETIRER LE PENNEAU ARRIÈRE

1. Retirer les 16 vis (A) comme sur la Fig.2.



Screws A
Vis A
Fig.2.

LOCATION OF CONTROLS

EMPLACEMENT DES COMMANDES

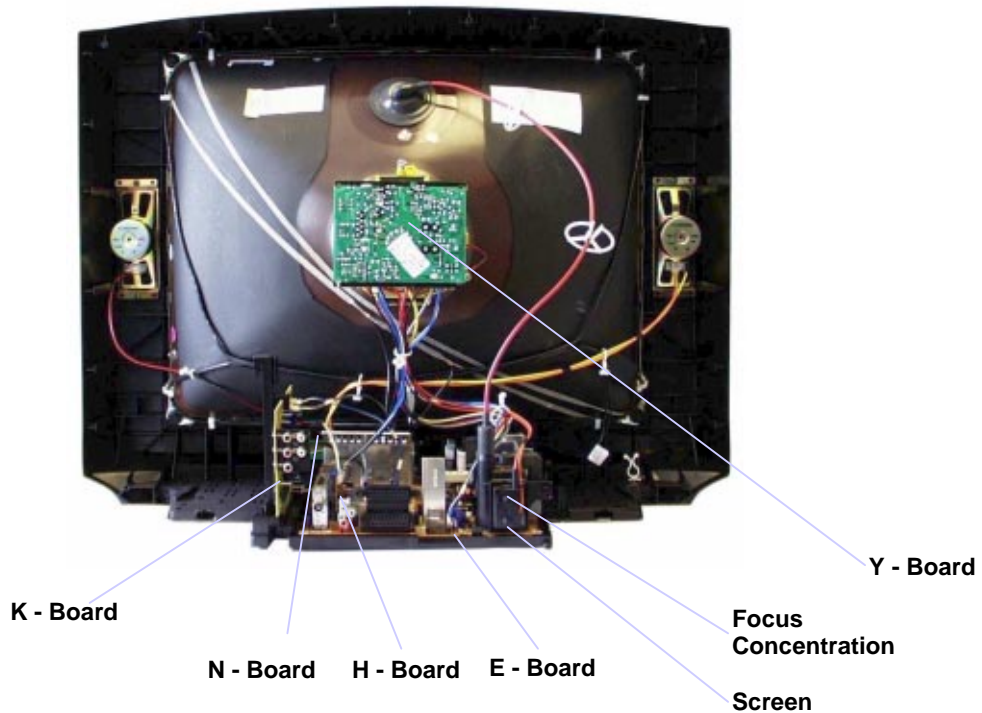


Fig.3.

SERVICE MODE

The remote control is used for entering and storing adjustments, with the exception of Cut-off adjustments, which must always be done prior to service adjustment. Perform adjustments in accordance with screen display. The display on the screen also specifies the CCU variants as well as the approx. setting values. The adjustment sequence for the service mode is indicated below.

1. Set the Bass to maximum position, set the Treble to minimum position, press the down button (- / v) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode.
2. Press the **RED / GREEN** buttons to step up / down through the functions.
3. Press the **YELLOW / BLUE** buttons to alter the function values.
4. Press the **STR** button after each adjustment has been made to store the required values.
5. To exit the Service Mode, press the **"N"** button.

NOTE: This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels into the Memory Pack and then download them onto this or any other EURO-4 TV set.

TV to Memory Pack process

1. Plug the memory pack into the the AV1 21 pin terminal at the back of the TV and switch the TV on.
2. Go into Service Mode as explained above. The screen will show :-

Program
External>>TV

3. Press the **BLUE** button on the remote control. The screen will show :-

Program
TV>>External

4. Press the **STR** button on the remote control The screen will show :-

Please Wait

5. All the tuning information stored inside the TV will now be transferred to the Memory Pack. This process will take 2-3 minutes to complete and when finished the screen will show :-

Complete

Memory Pack to TV process

1. Plug the memory pack into the the AV1 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show :-

Program
External>>TV

3. Press the **STR** button on the remote control. The screen will show :-

Please Wait

4. All the tuning information stored inside the Memory Pack will now be transferred to the TV. This process will take 2-3 minutes to complete and when finished the screen will show :-

Complete

5. The tuning information from the Memory Pack has now been copied into the TV.
6. To exit from the Service Mode press the **"N"** button.
7. The process has now been completed and the Memory Pack can now be removed.

ERRORS

If an error occurs while using the Memory Pack the TV will detect this and the screen will show :-

Error !!

If this happens then press the **"N"** button and repeat the process that was being used. If the errors continue to occur then check the connectors between the TV and the memory pack and check the 9V battery inside the memory pack.

REGLAGES

La télécommande sert à entrer et stocker les données des réglages. Sauf pour le cut-off qui doit être réalisé en priorité. Les réglages s'affichent sur l'écran, ainsi que les spécificités nominales du CCU.

1. Régler par la télécommande le niveau de **GRAVE** au **maximum**, **AIGU** au **minimum**. Appuyer simultanément sur le bouton **(-V)** en face avant du TV et le bouton **INDEX** de la télécommande. Ces actions positionnent le TV en Mode Service.
2. Appuyer sur la touche **ROUGE** ou **VERTE** pour sélectionner la fonction désirée.
3. Appuyer sur la touche **JAUNE** ou **BLEUE** pour modifier les valeurs des réglages.
4. Mettre en mémoire après chaque réglage, en appuyant sur la touche **STR**.
5. Pour sortir de la position SERVICE MODE arrêter le TV.

REMARQUE:

Le Memory Pack permet de copier la configuration du TV, (Chaines, Niveaux analogiques) et de la transférer, via le Memory Pack vers un autre TV EURO-4.

Processus de transfert "téléviseur vers bloc-mémoire"

1. La partie arrière du téléviseur comporte deux connecteurs à 21 broches:brancher le bloc-mémoire dans le connecteur supérieur AV1, puis mettre le téléviseur en marche ("ON").
2. Passer en Mode Service (voir ci-dessus). L'écran affichera :-

Program
External>>TV

3. Appuyer sur la bouton **BLEU** de la télécommande. L'écran du téléviseur présentera la message suivant:-

Program
TV>>External

4. Appuyer sur la bouton de mémorisation (**STR**) de la télécommande et l'écran présentera la message suivant :-

Please Wait

5. Toutes les informations de syntonisation enregistrées par le téléviseur seront maintenant transférées vers le bloc-mémoire. Cette opération ne prend que 2 à 3 minutes. Lorsqu'elle est terminée, l'écran du téléviseur présentera le message suivant :-

Complete

Processus de transfert " bloc-mémoire vers téléviseur "

1. La partie arrière du téléviseur comporte deux connecteurs à 21 broches:brancher le bloc-mémoire dans le connecteur supérieur AV1, puis mettre le téléviseur en marche ("ON").
2. Passer en Mode Service (voir ci-dessus). L'écran affichera :-

Program
External>>TV

3. Appuyer sur la bouton de mémorisation (**STR**) de la télécommande et l'écran présentera la message suivant :-

Please Wait

4. Toutes les informations de syntonisation enregistrées par le téléviseur seront maintenant transférées vers le bloc-mémoire. Cette opération ne prend que 2 à 3 minutes. Lorsqu'elle est terminée, l'écran du téléviseur présentera la message suivant :-

Complete

5. Les informations de syntonisation du téléviseur du bloc-mémoire ont maintenant été copiées dans le téléviseur.
6. Pour sortir du mode d'exploitation SERVICE, mettre le téléviseur hors circuit ("OFF").
7. Une fois l'opération terminée, enlever le bloc-mémoire.


ERREURS

Le téléviseur détectera toutes les erreurs susceptibles de se produire éventuellement pendant l'utilisation du bloc-mémoire. L'écran présentera alors le message suivant :-

Error !!

Dans ce cas, appuyer sur le bouton "N" (Normalisation) et répéter l'opération qui était en cours. En cas d'erreurs répétées, vérifier les connexions entre le téléviseur et le bloc-mémoire, plus contrôler l'état de la pile 9V à l'intérieur du bloc-mémoire.

SELF CHECK

1. Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self-Check mode press the down **(-V)** button on the customer controls at the front of the set, at the same time pressing the **STATUS**  button on the remote control, and the screen will show :-

VDP	O.K.	PCB	O.K.
TUN	O.K.	Cab	O.K.
E2	O.K.	Sum	Factory use only Usage d'usine seulement
MSP	O.K.		
DPL	O.K.		
OPTION 1	39		
OPTION 2	0C		
OPTION 3	1F		
OPTION 4	03		
OPTION 5	EF		
OPTION 6	25		

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.". Si les ports du CCU ont été testés et qu'ils soient incorrectes ou non identifiés Lorsqu'il apparait " - - " au lieu de "O.K.".

Service Aids

To aid in the service of our current chassis there are a number of Service Aids, which have been made available.

- **LUCI** interface kit (Linked Utility Computer Interface) Part number: TZS6EZ002
This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- **VICI** (Visual Interactive Computer Information)
These C.D.'s contain multimedia documentation providing quick access to service information.
Part No. TZS7EZ006 & TZS7EZ005
 1. Service Manuals
 2. Instruction Books
 3. Technical Information
- **TASMIN** (Technically Advanced System for Multimedia Interactive Notes)
As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

Aides Techniques

Pour faciliter le dépannage des modèles courants il'y-a un certain nombres d'outils de service disponibles.

- Interface **LUCI** (Linked Utility Computer Interface)
Ref: TZS6EZ002
Cette référence contient; L'interface et les cables de connexion aux TV et PC et également le logiciel de diagnostic. (A l'introduction des nouveaux modèles un logiciel remis à jour sera disponible).
- **VICI** (Visual Interactive Computer Information)
Ces céderom contiennent des documents multimédias donnant acces rapide aux informations de Service.
Ref. TZS7EZ006 & TZS7EZ005
 1. Les schémas techniques
 2. Les modes d'emplois
 3. Les informations techniques
- **TASMIN** (Technically Advanced System for Multimedia Interactive Notes)
C'est le premier pas vers un "training" plus interactif, ce produit permet aussi bien un acces rapide aux informations techniques.

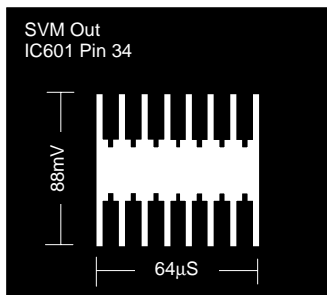
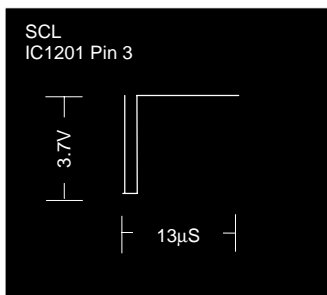
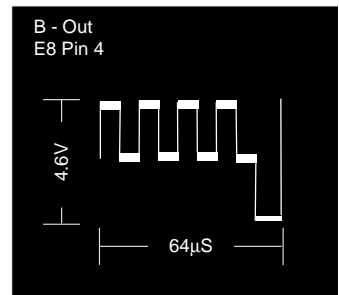
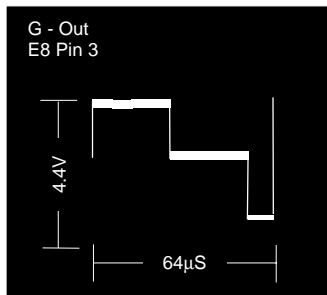
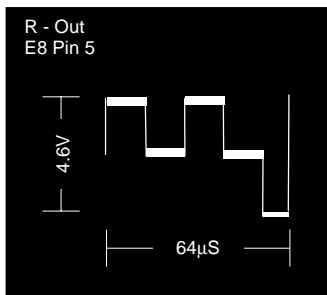
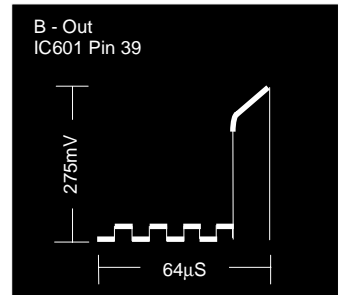
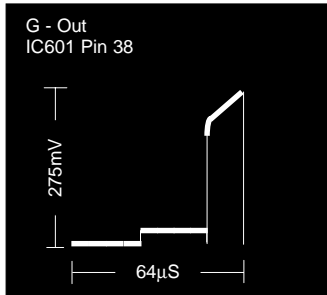
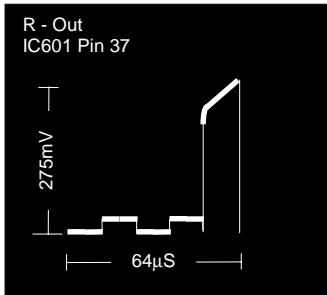
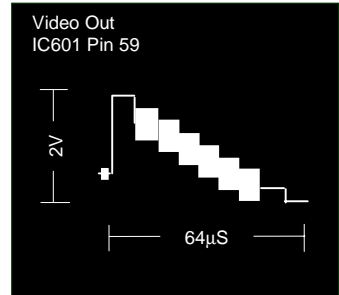
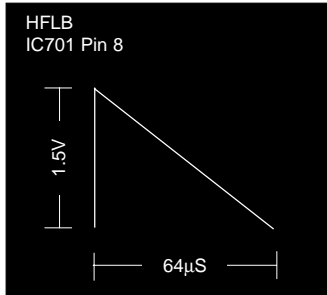
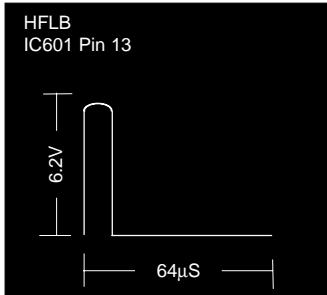
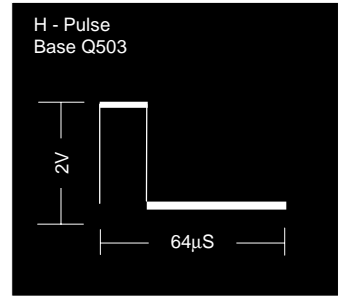
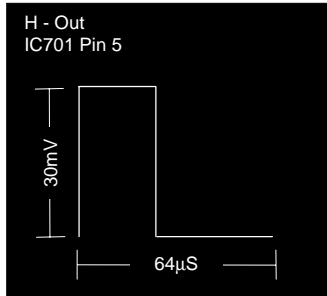
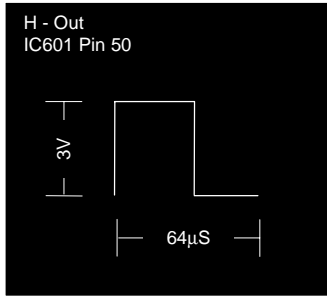
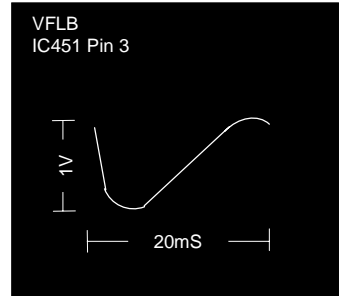
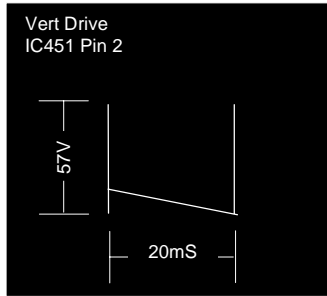
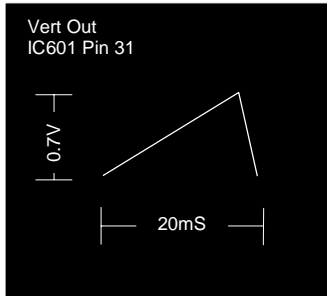
ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments																																										
<p style="text-align: center;">+B SET-UP</p> <ol style="list-style-type: none"> Receive a Greyscale signal. Set the controls:- <table style="margin-left: 20px;"> <tr> <td>Brightness</td> <td>Minimum</td> </tr> <tr> <td>Contrast</td> <td>Minimum</td> </tr> <tr> <td>Volume</td> <td>Minimum</td> </tr> </table> 	Brightness	Minimum	Contrast	Minimum	Volume	Minimum	<ol style="list-style-type: none"> Set the +B voltage up as follows:- Adjust R811 so that B2 shows $148V \pm 1V$ Confirm the following voltages. <table style="margin-left: 20px;"> <tr> <td>B9</td> <td>5</td> <td>$\pm 0,25V$</td> <td>B10</td> <td>5</td> <td>$\pm 0,25V$</td> </tr> <tr> <td>B5</td> <td>12</td> <td>$\pm 0,5V$</td> <td>B11</td> <td>33</td> <td>$\pm 1,5V$</td> </tr> <tr> <td>B4</td> <td>16</td> <td>$\pm 1V$</td> <td>B7</td> <td>8</td> <td>$\pm 0,5V$</td> </tr> <tr> <td>B12</td> <td>26</td> <td>$\pm 1V$</td> <td>B8</td> <td>5,5</td> <td>$\pm 0,5V$</td> </tr> <tr> <td>B3</td> <td>41</td> <td>$\pm 1V$</td> <td>B13</td> <td>15</td> <td>$\pm 1V$</td> </tr> <tr> <td>B1</td> <td>200</td> <td>$\pm 10V$</td> <td>B14</td> <td>-15</td> <td>$\pm 1V$</td> </tr> </table> 	B9	5	$\pm 0,25V$	B10	5	$\pm 0,25V$	B5	12	$\pm 0,5V$	B11	33	$\pm 1,5V$	B4	16	$\pm 1V$	B7	8	$\pm 0,5V$	B12	26	$\pm 1V$	B8	5,5	$\pm 0,5V$	B3	41	$\pm 1V$	B13	15	$\pm 1V$	B1	200	$\pm 10V$	B14	-15	$\pm 1V$
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B1	200	$\pm 10V$	B14	-15	$\pm 1V$																																						
<p style="text-align: center;">Cut-Off / Ug2 Test</p> <ol style="list-style-type: none"> Receive a Greyscale signal. Degauss the tube externally. Set the TV into Service Mode 1. Select Cutoff mode. 	<p>To adjust Cutoff, connect an oscilloscope to the blue cathode, adjust "cutoff" value using the "YELLOW" and "BLUE" buttons until the black level is $160V \pm 5V$ press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."</p>																																										

REGLAGES

Préparation	Réglages																																										
<p style="text-align: center;">+B Réglages</p> <ol style="list-style-type: none"> Appliquer une mire à carreaux N/B. Régler les contrôles suivants <table style="margin-left: 20px;"> <tr> <td>Lumière</td> <td>Minimum</td> </tr> <tr> <td>Contraste</td> <td>Minimum</td> </tr> <tr> <td>Volume</td> <td>Minimum</td> </tr> </table> 	Lumière	Minimum	Contraste	Minimum	Volume	Minimum	<ol style="list-style-type: none"> Régler les tensions +B comme suit: Régler R811 tel que la tension B2 soit de $148V \pm 1V$. Confirmer le réglage: <table style="margin-left: 20px;"> <tr> <td>B9</td> <td>5</td> <td>$\pm 0,25V$</td> <td>B10</td> <td>5</td> <td>$\pm 0,25V$</td> </tr> <tr> <td>B5</td> <td>12</td> <td>$\pm 0,5V$</td> <td>B11</td> <td>33</td> <td>$\pm 1,5V$</td> </tr> <tr> <td>B4</td> <td>16</td> <td>$\pm 1V$</td> <td>B7</td> <td>8</td> <td>$\pm 0,5V$</td> </tr> <tr> <td>B12</td> <td>26</td> <td>$\pm 1V$</td> <td>B8</td> <td>5,5</td> <td>$\pm 0,5V$</td> </tr> <tr> <td>B3</td> <td>41</td> <td>$\pm 1V$</td> <td>B13</td> <td>15</td> <td>$\pm 1V$</td> </tr> <tr> <td>B1</td> <td>200</td> <td>$\pm 10V$</td> <td>B14</td> <td>-15</td> <td>$\pm 1V$</td> </tr> </table> 	B9	5	$\pm 0,25V$	B10	5	$\pm 0,25V$	B5	12	$\pm 0,5V$	B11	33	$\pm 1,5V$	B4	16	$\pm 1V$	B7	8	$\pm 0,5V$	B12	26	$\pm 1V$	B8	5,5	$\pm 0,5V$	B3	41	$\pm 1V$	B13	15	$\pm 1V$	B1	200	$\pm 10V$	B14	-15	$\pm 1V$
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B1	200	$\pm 10V$	B14	-15	$\pm 1V$																																						
<p style="text-align: center;">Cut-Off / Ug2 Test</p> <ol style="list-style-type: none"> Appliquer une mire à carreaux N/B. Démagnétiser le tube extérieurement. Mettre le TV en Mode Service 1. Sélectionner le Mode Cutoff. 	<p>Pour régler le cutoff mettre un oscilloscope sur la cathode "Bleu" et régler avec les touches "Jaune" et "Bleu" jusqu'à ce que le niveau de noir soit à $160V \pm 5V$, mémoriser cette valeur en appuyant sur "STR". Enlever l'oscilloscope et sélectionner le réglage "Ug2" à l'écran et régler le potentiomètre "screen" du transfo THT pour que "OK" soit indiqué à l'écran.</p>																																										

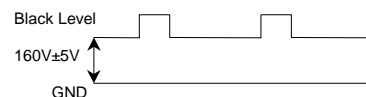
WAVEFORM PATTERN TABLE TABLEAU DES OSCILLOGRAMMES



ALIGNMENT SETTINGS:

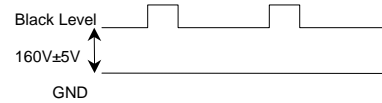
(The figures below are nominal and used for representative purposes only.)

Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V-Amp 054	Optimum setting.
EW-amplitude	E/W-Amp1 -128	Optimum setting.
EW-amplitude	E/W-Amp2 006	Optimum setting.
Trapezium-comp	Trapez-1 047	Optimum setting.
Trapezium-comp	Trapez-2 -128	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
DVCO	DVCO -005	Receive a PAL Colour Bar Pattern. For DVCO alignment press " Blue " button, wait until the colours are changing slowly and press " STR ".
Cut-off DC	Cut-off 0171	To adjust Cutoff connect an oscilloscope to the blue cathode, adjust "cutoff" value using the " Yellow " and " Blue " buttons until the black level is $160V \pm 5V$ press " STR " to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."
Ug2 Test	Ug2 055 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 255	Optimum setting.



REGLAGES

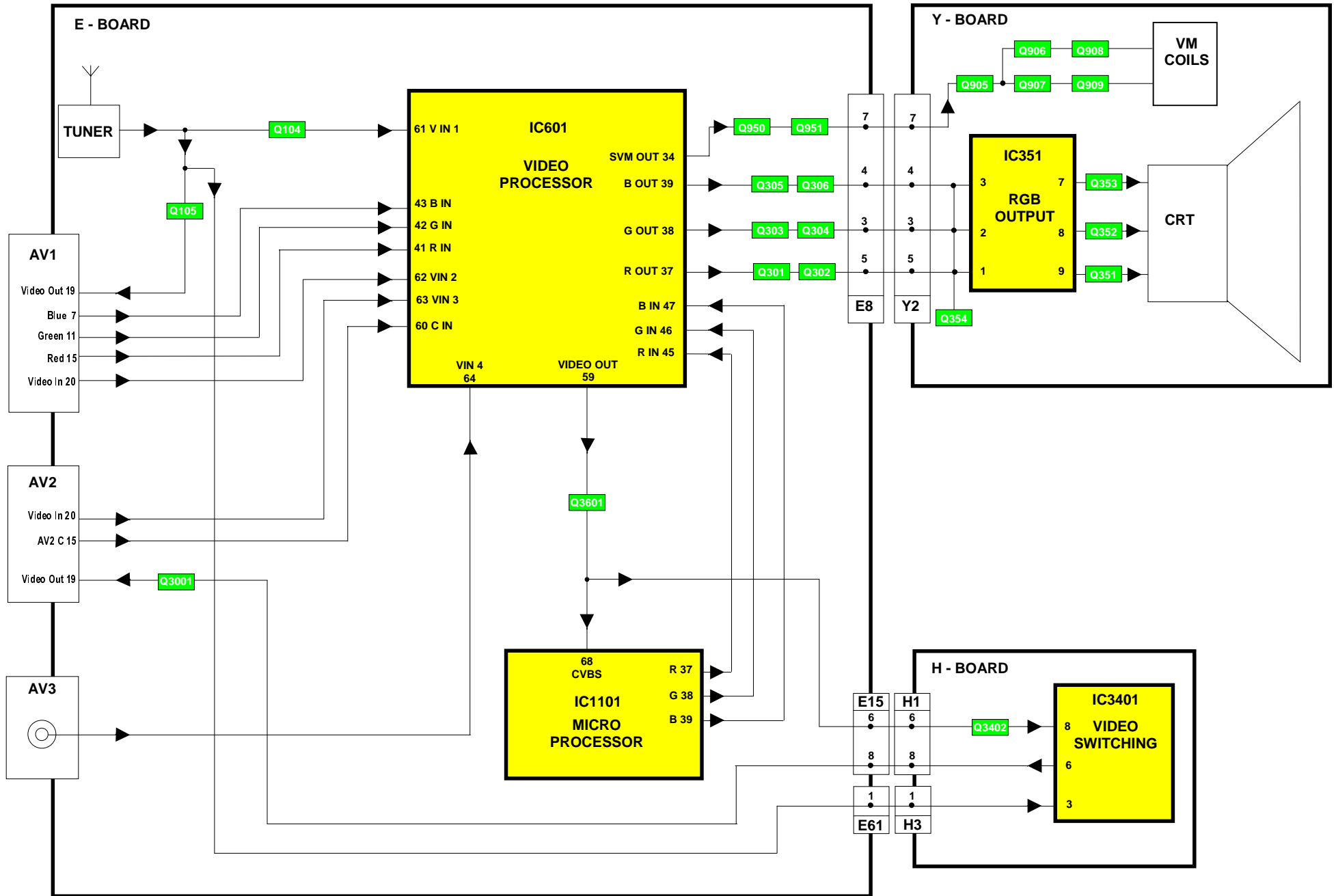
(Les figures ci-dessous sont fictives et utilisées uniquement à des fins représentatives)

Fonctions		Réglages/Points particuliers
Centrage Horizontal	H-Pos 061	Optimiser les réglages.
V-Pos.	V-Pos 005	Optimiser les réglages.
Amplitude Horizontale	H-Amp 055	Optimiser les réglages.
Amplitude Verticale	V-Amp 054	Optimiser les réglages.
Amplitude E.O.	E/W-Amp1 -128	Optimiser les réglages.
Amplitude E.O.	E/W-Amp2 006	Optimiser les réglages.
Correction Trapèze	Trapez-1 047	Optimiser les réglages.
Correction Trapèze	Trapez-2 -128	Optimiser les réglages.
Linéarité Verticale	V-Lin 006	Optimiser les réglages.
Vertical Symmetry	V-Sym 002	Optimiser les réglages.
DVCO	DVCO -005	Mettre une mire de barre couleur en PAL. Pour régler DVCO appuyer sur la touche " Bleu " et attendre que les couleurs défilent le plus lentement possible et appuyer sur " STR ".
Cut-off DC	Cut-off 0171	<p>Pour régler le cutoff mettre un oscilloscope sur la cathode "Bleu" et régler avec les touches "Jaune" et "Bleu" jusqu'à ce que le niveau de noir soit à $160V \pm 5V$, mémoriser cette valeur en appuyant sur "STR". Enlever l'oscilloscope et sélectionner le réglage "Ug2" à l'écran et régler le potentiomètre "screen" du transfo THT pour que "OK" soit indiqué à l'écran.</p> 
Ug2 Test	Ug2 055 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimiser les réglages.
Sub-Brightness	Sub-Brightness 255	Optimiser les réglages.

VIDEO BLOCK DIAGRAM

SYNOPTIQUE VIDEO

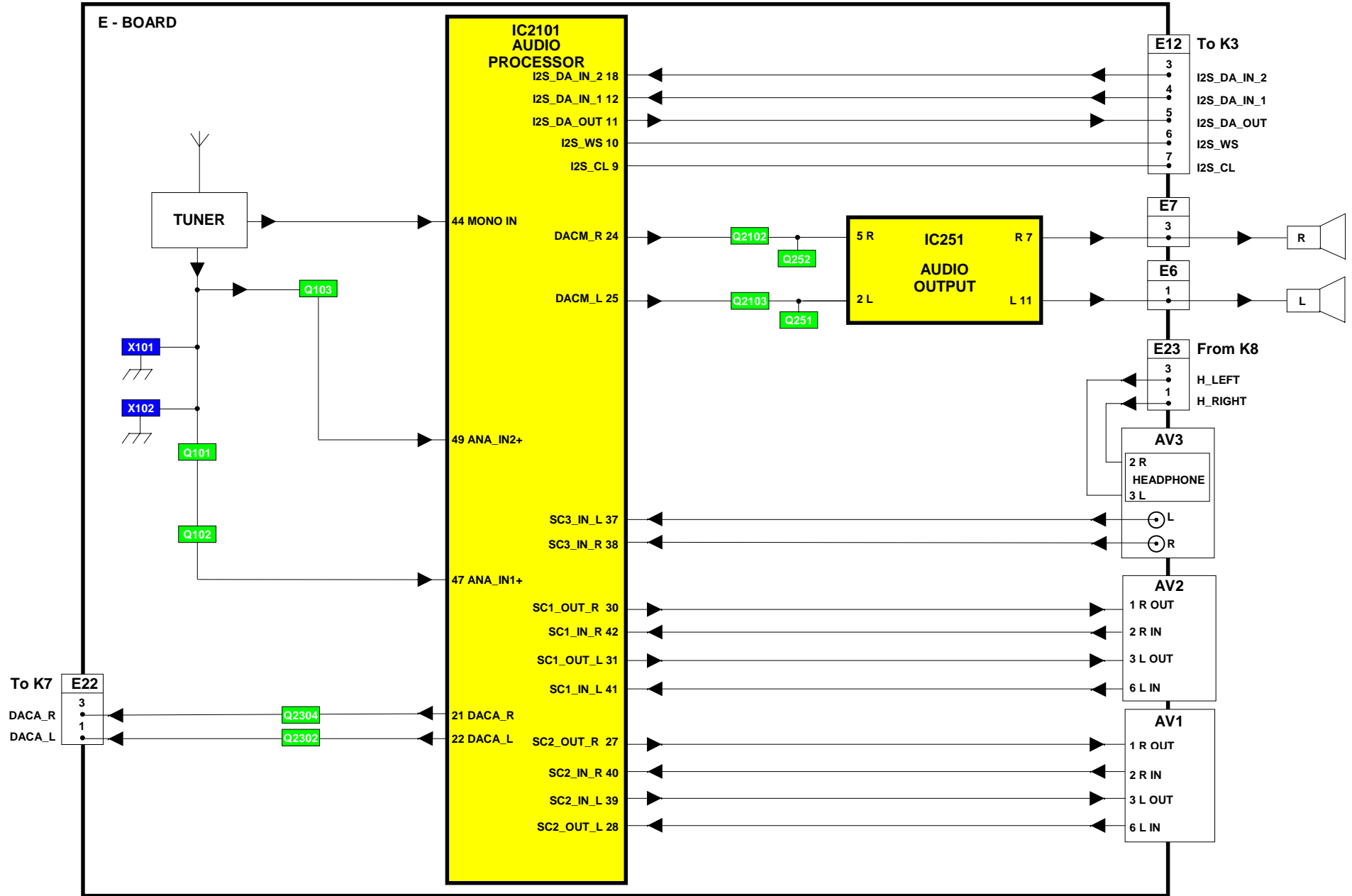
12



AUDIO BLOCK DIAGRAM

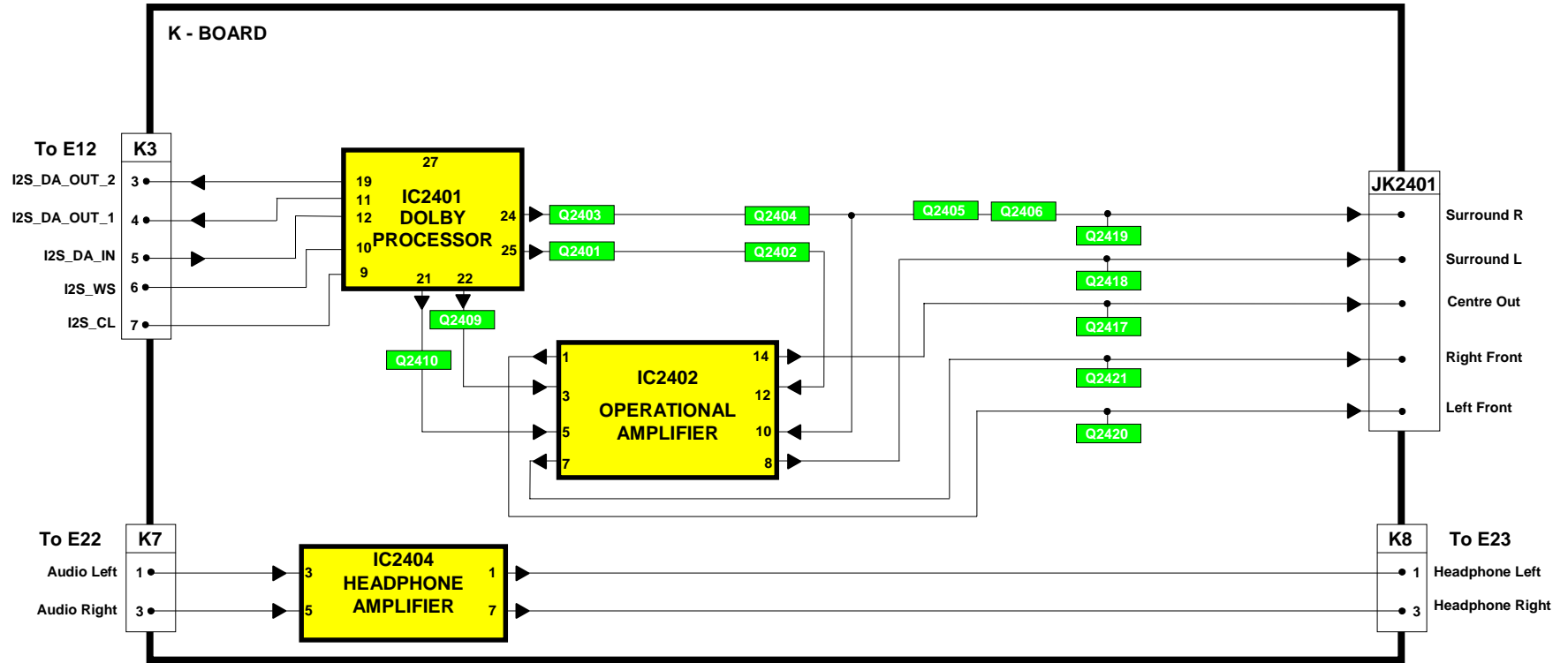
SYNOPTIQUE AUDIO

13



DOLBY BLOCK DIAGRAM

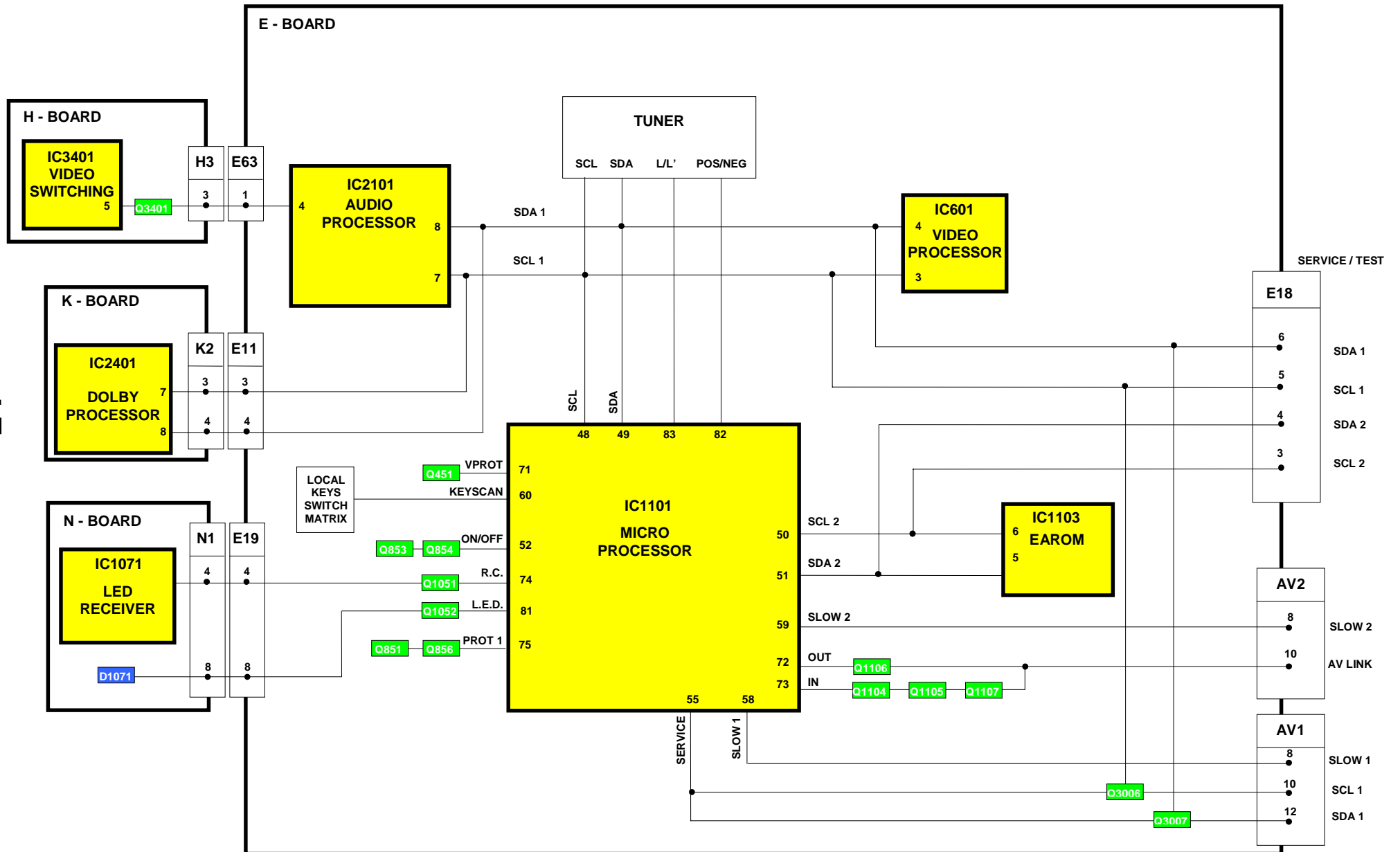
SINOPTIQUE DOLBY



CONTROL BLOCK DIAGRAM

SYNOPTIQUE DE COMMANDE

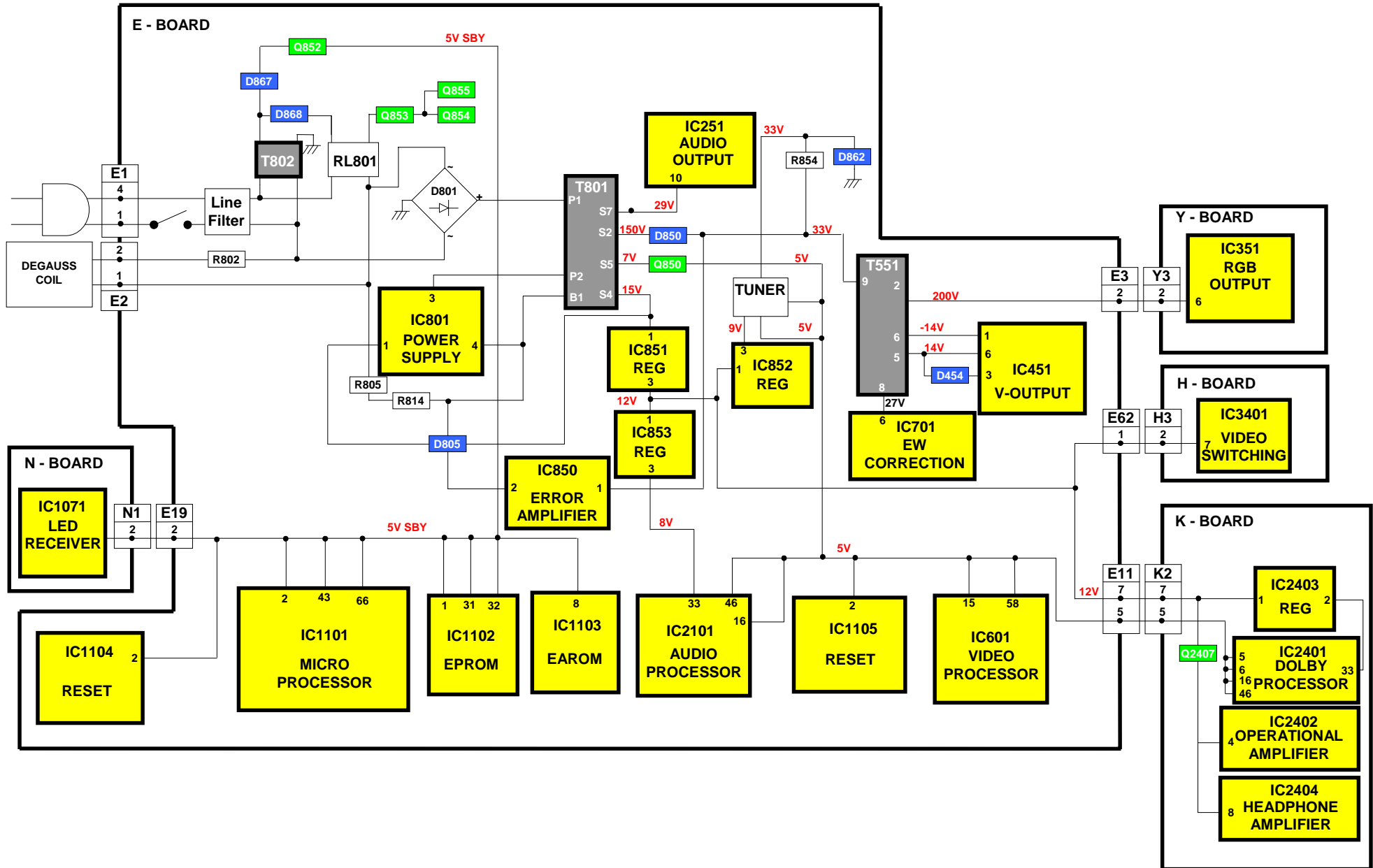
15



POWER SUPPLY BLOCK DIAGRAM

SYNOPTIQUE ALIMENTATION

16



PARTS LOCATION

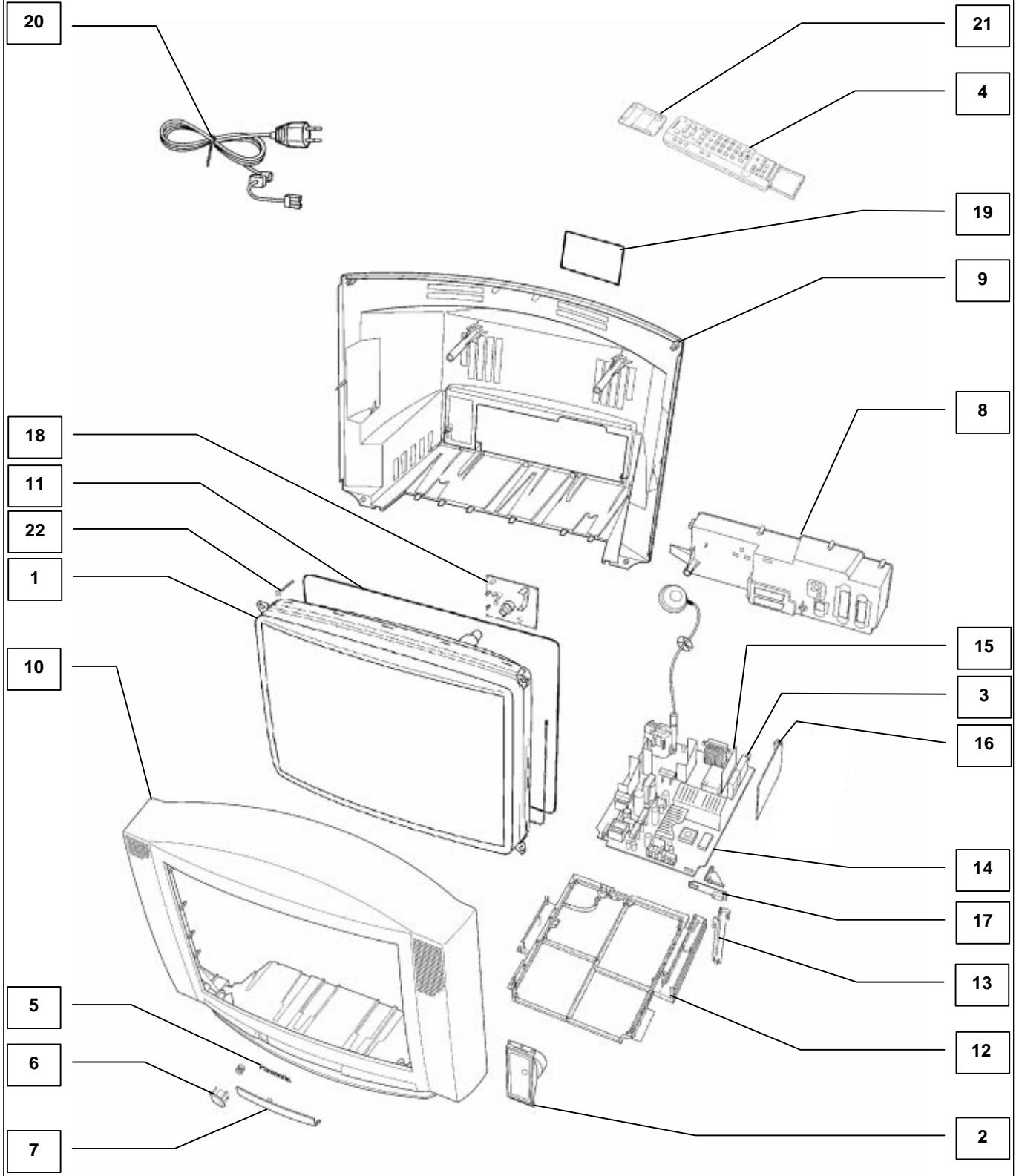
EMPLACEMENT DES PIÈCES

NOTE:

The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.


REMARQUE

Les numéros sur les pièces mécaniques indiquent les No. de réf. de la liste des pièces de rechange.

















REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by  mark have special characteristics important for safety.


When replacing any of these components, use only manufacturers specified parts.

* In case of ordering these spare parts, please always add the complete Model-Type number to your order.


Cct Ref	Parts Number	Description	
MECHANICAL PARTS			
1	A66ECF50X41	C.R.T.	
2	EASG15S506A2	SPEAKER	
3	ENG29505G	TUNER	
4	EUR511200	REMOTE CONTROL	
5	TBM8E1728	PANASONIC BADGE	
6	TBX8E050	POWER BUTTON	
7	TKP8E1223	DOOR LID	
8	TKP8E1233	AV COVER	
9	TKU8E00320	BACK COVER	
10	TKY8E301	CABINET	
11	TLK8E05140	DEGAUSS COIL	
12	TMX8E020	CHASSIS FRAME	
13	TMX8E022	DOLBY BRACKET	
14	TNP8EE009BK	E P.C.B.	
15	TNP8EH002AA	H P.C.B.	
16	TNP8EK005AA	K P.C.B.	
17	TNP8EN016AA	N P.C.B.	
18	TNP8EY012AF	Y P.C.B.	
19	TQF8E2691	MODEL LABEL	
20	TSX8E0027	POWER CORD	
21	UR51EC904A	BATTERY COVER (REMOTE)	
22	VP17005-32	CRT FIXING SCREW	
MISCELLANEOUS COMPONENTS			
	31221212478	FIX CLIP	
	832AG11D-ESL	I.C. SOCKET	
	F9-4-220	RELAY	
	PCS-084A-1	84 PIN SOCKET	
	TBM8E1615	PRESET LABEL	
	TBM8E1856	REAR AV LABEL	
	TBM8E1875	LABEL	
	TEK6940	LID CATCH	
	TES8E015	POWER BUTTON SPRING	
	TMW8E027	LED HOLDER	
	TPC8E4659	OUTER CARTON	
	TPD8E655	TOP CUSHION	
	TPD8E656	BOTTOM CUSHION	
	UM-3DJ-2P	BATTERY PACK	
	ZTUZAE550A	ANODE LEAD	
RL801	TSE1885-1	RELAY	
R802	232266296706	THERMISTOR	
S351	0330550049	CRT SOCKET	
INSTRUCTION BOOKS			
	TQB8E2581A	GERMAN	
	TQB8E2581BD	DUTCH/FRENCH	
	TQB8E2581CF	ITALIAN/SWEDISH	
I.C.s			
IC251	LA4282	AUDIO OUTPUT	
IC351	TDA6103Q-N3	R.G.B. OUTPUT	
IC451	LA7845N	VERTICAL OUTPUT	
IC601	VDP3108BPPB1	VIDEO PROCESSOR	

LISTE DES PIÈCES DE RECHANGE

Remarque importante pour la sécurité

Les éléments portant la indication  possèdent des caractéristiques de sécurité spéciales. Lors du remplacement de l'une quelconque des ces pièces, n'utiliser que celles spécifiées par la fabricant.

* En cas de commande de ces pièces, veuillez toujours ajouter le numero de modele complet a votre commande

Cct Ref	Parts Number	Description	
IC701	TEA2031A	E/W CORRECTION	
IC801	STRF6654LF51	POWER SUPPLY	
IC850	SE140N	ERROR AMPLIFIER	
IC851	L78M12MRB	12V REGULATOR	
IC852	L78M09MRB	9V REGULATOR	
IC853	AN78L08TA	8V REGULATOR	
IC1071	RPM6937-V4	LED RECEIVER	
IC1101	SDA5450C48	MICRO PROCESSOR	
IC1102	27C2001-F17	EPROM *	
IC1103	XGL2-01CF	EAROM *	
IC1104	MN1381-R(TA)	RESET	
IC1105	MN1381-T(TA)	RESET	
IC2101	MSP3410DPOB4	AUDIO PROCESSOR	
IC2401	DPL3519APOA1	DOLBY PROCESSOR	
IC2402	AN6554	OPERATIONAL AMPLIFIER	
IC2403	AN78L08TA	8V REGULATOR	
IC2404	NJM4556AD	HEADPHONE AMPLIFIER	
IC3401	TEA2114	VIDEO SWITCHING	
FUSES			
F802	19181-3.15	FUSE	
F8021	EYF52BC	FUSE HOLDER	
F8022	EYF52BC	FUSE HOLDER	
DIODES			
D251	MA2180TP	DIODE	
D253	MA700TA5	DIODE	
D254	MA700TA5	DIODE	
D354	1SR124-4AT82	DIODE	
D355	1SR124-4AT82	DIODE	
D356	1SR124-4AT82	DIODE	
D357	MA165TA5	DIODE	
D358	MA165TA5	DIODE	
D359	MA165TA5	DIODE	
D360	MTZJT-7715A	DIODE	
D361	MA165TA5	DIODE	
D362	MA165TA5	DIODE	
D363	MA165TA5	DIODE	
D364	MA165TA5	DIODE	
D453	MA165TA5	DIODE	
D454	ERA15-02V3	DIODE	
D456	MTZJT-775.6C	DIODE	
D457	MA165TA5	DIODE	
D501	MA165TA5	DIODE	
D502	1SR124-4AT82	DIODE	
D511	MA4047	DIODE	
D551	ERD07-15L7	DIODE	
D552	RU3LFA1	DIODE	
D553	1SR124-4AT82	DIODE	
D554	1SR124-4AT82	DIODE	
D556	MA165TA5	DIODE	
D557	EU02	DIODE	
D558	1SR124-4AT82	DIODE	
D601	DAN217T146	DIODE	

Cct Ref	Parts Number	Description
D603	DAN217T146	DIODE
D605	DAN212KT146	DIODE
D606	MA165TA5	DIODE
D607	MA4051	DIODE
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE
D616	STZ6.2NT146	DIODE
D701	MA165TA5	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29TA5	DIODE
D705	MTZJT-775.6C	DIODE
D801	RBV4-08	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	TLP621GR-LF2	PHOTO COUPLER
D806	1SR124-4AT82	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT776.2B	DIODE
D852	MA165TA5	DIODE
D853	MA2180BLFS	DIODE
D854	TVSRU2AMLFA5	DIODE
D855	FML22SLF610	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1C	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D861	MA165TA5	DIODE
D862	MTZJT-7736A	DIODE
D863	MA165TA5	DIODE
D865	MA165TA5	DIODE
D866	MA165TA5	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	MA165TA5	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D901	MA165TA5	DIODE
D902	MA165TA5	DIODE
D904	MA165TA5	DIODE
D905	MA165TA5	DIODE
D906	RLS72TE-11	DIODE
D1071	SLR56UR3FS	LED
D1072	MTZJT-778.2C	DIODE
D1101	MA165TA5	DIODE
D1102	MA165TA5	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE
D2401	MA165TA5	DIODE
D2402	MA165TA5	DIODE
D2403	MTZJT-7712C	DIODE
D2404	MTZJT-7712C	DIODE
D2405	MTZJT-7712C	DIODE
D2406	MTZJT-7712C	DIODE
D2409	MA165TA5	DIODE
D3101	MTZJT-778.2C	DIODE
D3102	MTZJT-778.2C	DIODE
TRANSISTORS		
Q101	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q102	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q301	BC847B	TRANSISTOR
Q302	FMY4T148	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q304	FMY4T148	TRANSISTOR
Q305	BC847B	TRANSISTOR
Q306	FMY4T148	TRANSISTOR
Q351	2SA1767	TRANSISTOR
Q352	2SA1767	TRANSISTOR
Q353	2SA1767	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SD2398-M2	TRANSISTOR
Q551	BU2508AXLB	TRANSISTOR
Q552	2SC1473-RN	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q850	2SD1273PLB	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SC1383-S	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q950	BC847B	TRANSISTOR
Q951	FMY4T148	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2303	BC847B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q2401	BC857B	TRANSISTOR
Q2402	BC857B	TRANSISTOR
Q2403	BC857B	TRANSISTOR
Q2404	BC857B	TRANSISTOR
Q2405	BC847B	TRANSISTOR
Q2406	BC847B	TRANSISTOR
Q2407	BC847B	TRANSISTOR
Q2409	BC857B	TRANSISTOR
Q2410	BC857B	TRANSISTOR
Q2416	BC857B	TRANSISTOR
Q2417	BC847B	TRANSISTOR
Q2418	BC847B	TRANSISTOR
Q2419	BC847B	TRANSISTOR
Q2420	BC847B	TRANSISTOR
Q2421	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q2422	BC847B	TRANSISTOR
Q2423	BC857B	TRANSISTOR
Q2424	BC847B	TRANSISTOR
Q2425	BC857B	TRANSISTOR
Q2429	BC857B	TRANSISTOR
Q2430	BC847B	TRANSISTOR
Q2431	BC847B	TRANSISTOR
Q2432	BC847B	TRANSISTOR
Q3001	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3401	BC847B	TRANSISTOR
Q3402	BC847B	TRANSISTOR
Q3601	BC847B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y173AY	TRANSFORMER
T551	ZTFL94002A	F.B.T.
T801	ETS39AG1H7AD	TRANSFORMER
T802	ETP35KAN619U	TRANSFORMER
COILS		
L104	EXCELSA35T	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L301	TLTACT4R7K	COIL
L302	TLTACT4R7K	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL
L552	ELH5L4105	COIL
L553	ELC08D682E	COIL
L554	ELC18B102L	COIL
L601	TLTACT4R7K	COIL
L602	TLTACT4R7K	COIL
L603	TLTACT4R7K	COIL
L604	TLTACT4R7K	COIL
L606	TLTACT4R7K	COIL
L607	ELJFC2R2KF	COIL
L701	ELC10D822E	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIN470KA	COIL
L853	EXCELSA35T	COIL
L854	EXCELSA35T	COIL
L855	EXCELSA35T	COIL
L901	EXCELSA24T	COIL
L902	EXCELSA24T	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L2401	TLTACT3R3K	COIL
L2402	TLTACT3R3K	COIL
L2403	TLTACT101K	PEAKING COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3005	ELEBR2R2KA	COIL
L3006	ELEBR2R2KA	COIL
L3007	TLTACT2R2K	COIL
L3101	ELEBT6R8KA	COIL
L3102	ELEBT6R8KA	COIL
L3401	ELESN2R2KA	COIL
L3402	ELESN2R2KA	COIL



Cct Ref	Parts Number	Description
FILTERS		
L804	ELF18N010A	LINE FILTER
CRYSTALS		
X601	4730007267	CRYSTAL
X1101	TAF10020	CRYSTAL
X1101	TSSA121	CRYSTAL
X2101	4730007158	CRYSTAL
X2401	4730007158	CRYSTAL
RESISTORS		
C101	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA45	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA55	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA54	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA52	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA5	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA49	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA48	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA37	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA44	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA40	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA39	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA38	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA57	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA47	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA6	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA36	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSH001	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE5	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA58	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA8	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA60	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA24	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA17	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA16	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA20	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA21	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA15	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA19	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA14	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA25	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA27	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA28	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA11	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA2	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω

Cct Ref	Parts Number	Description				
JA59	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA8	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA56	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA1	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA43	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA30	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA31	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA32	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA33	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA34	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA50	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA29	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA51	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA23	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA46	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA21	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA5	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
JA35	ERJ8GEY0R00	S.M.CARB	.125W	5%	0	☐
R101	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	☐
R102	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R103	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	☐
R104	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	☐
R105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐
R106	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	☐
R107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R111	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	☐
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	☐
R114	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	☐
R115	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	☐
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6	☐
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	☐
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	☐
R251	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐
R252	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	☐
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R254	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	☐
R257	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68	☐
R258	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	☐
R259	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68	☐
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	☐
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	☐
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R265	ERD25TJ2R2	CARBON	0.25W	5%	2R2	☐
R266	ERD25TJ2R2	CARBON	0.25W	5%	2R2	☐
R267	ERF7ZK4R7	WOUND	7W	10%	4R7	☐
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R272	ERF7ZK4R7	WOUND	7W	10%	4R7	☐
R301	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	☐
R302	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R303	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	☐
R304	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	☐
R305	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	☐
R306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R307	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	☐
R308	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	☐
R309	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	☐
R310	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R311	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	☐
R312	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	☐

Cct Ref	Parts Number	Description				
R351	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K	☐
R352	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K	☐
R353	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K	☐
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R355	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R356	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R357	ERDS1TJ114	CARBON	0.5W	5%	110K	☐
R358	ERDS1TJ114	CARBON	0.5W	5%	110K	☐
R359	ERDS1TJ114	CARBON	0.5W	5%	110K	☐
R363	ERD25TJ103	CARBON	0.25W	5%	10K	☐
R364	ERD25TJ103	CARBON	0.25W	5%	10K	☐
R365	ERD25TJ103	CARBON	0.25W	5%	10K	☐
R366	ERDS1TJ152	CARBON	0.5W	5%	1K5	☐
R367	ERDS1TJ152	CARBON	0.5W	5%	1K5	☐
R368	ERDS1TJ152	CARBON	0.5W	5%	1K5	☐
R369	ERD25TJ472	CARBON	0.25W	5%	4K7	☐
R370	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	☐
R372	ERQ12AJ121	FUSIBLE	0.5W	5%	120	☐
R373	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22	☐
R374	ERD25TJ274	CARBON	0.25W	5%	270K	☐
R375	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K	☐
R376	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	☐
R377	ERQ1ABJP5R1	METAL	0.5W	5%	5R1	☐
R381	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	☐
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	☐
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	☐
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	☐
R454	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5	☐
R455	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	☐
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	☐
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	☐
R458	ERD25TJ1R5	CARBON	0.25W	5%	1R5	☐
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐
R460	ERDS1TJ331	CARBON	0.5W	5%	330	☐
R461	ERW2PK1R2	WOUND	2W	10%	1R2	☐
R463	ERD25TJ222	CARBON	0.25W	5%	2K2	☐
R464	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8	☐
R465	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	☐
R502	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510	☐
R506	ERD25TJ560	CARBON	0.25W	5%	56	☐
R507	ERG1FJ271P	METAL	1W	5%	270	☐
R509	ERDS1TJ152	CARBON	0.5W	5%	1K5	☐
R510	ERDS1FJ152	CARBON	0.5W	5%	1K5	☐
R553	ERG1SJ152	METAL	1W	5%	1K5	☐
R554	ERG1SJ101	METAL	1W	5%	100	☐
R555	ERQ12HKR33	METAL	0.5W	5%	R33	☐
R558	ERDS1TJ124	CARBON	0.5W	5%	120K	☐
R559	ERQ12HKR33	METAL	0.5W	5%	R33	☐
R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K	☐
R561	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K	☐
R563	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K	☐
R564	ERJ6GEYJ623	S.M.CARB	0.1W	5%	62K	☐
R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	☐
R567	ERF7ZK1R0	WOUND	7W	10%	1	☐
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐
R602	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820	☐
R603	ERJ8GEYJ103	S.M.CARB	.125W	5%	10K	☐
R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐
R605	ERD25TJ331	CARBON	0.25W	5%	330	☐
R606	ERD25TJ331	CARBON	0.25W	5%	330	☐
R607	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820	☐
R608	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270	☐
R609	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2	☐
R610	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	☐
R611	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	☐
R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	☐

Cct Ref	Parts Number	Description				
R613	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	🔍
R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	🔍
R645	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	🔍
R647	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	🔍
R648	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	🔍
R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	🔍
R651	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	🔍
R652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	🔍
R654	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2	🔍
R655	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	🔍
R658	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	🔍
R659	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R660	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R701	ERQ12AJ101	FUSIBLE	0.5W	5%	100	🔍 ⚠️
R702	ERQ12HJ8R2	FUSIBLE	0.5W	5%	8R2	🔍 ⚠️
R703	ERG2FJ821	METAL	2W	5%	820	🔍 ⚠️
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	🔍
R705	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	🔍
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	🔍
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	🔍
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	🔍
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	🔍
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K	🔍
R711	ERG1SJ101	METAL	1W	5%	100	🔍
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	🔍
R803	ERC12ZGK335D	SOLID	0.5W	10%	3M3	🔍
R805	ERD25TJ473	CARBON	0.25W	5%	47K	🔍
R806	ERD25TJ100	CARBON	0.25W	5%	10	🔍
R807	ERD25TJ332	CARBON	0.25W	5%	3K3	🔍
R809	ERD25TJ681	CARBON	0.25W	5%	680	🔍
R810	ERW2PKR33	WOUND	2W	20%	R33	🔍 ⚠️
R811	ERW2PKR33	WOUND	2W	20%	R33	🔍 ⚠️
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2	🔍 ⚠️
R813	ERF7ZK2R7	WOUND	7W	20%	2R7	🔍 ⚠️
R814	ERD25TJ473	CARBON	0.25W	5%	47K	🔍
R815	ERD25TJ222	CARBON	0.25W	5%	2K2	🔍
R850	ERD25TJ122	CARBON	0.25W	5%	1K2	🔍
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	🔍
R854	ERG2FJ223	METAL	2W	5%	22K	🔍 ⚠️
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5	🔍
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5	🔍
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5	🔍
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K	🔍
R860	ERQ1CJP2R2	FUSIBLE	1W	10%	2R2	🔍 ⚠️
R861	ERD25TJ221	CARBON	0.25W	5%	220	🔍
R862	ERD25TJ272	CARBON	0.25W	5%	2K7	🔍
R863	ERDS1TJ560	CARBON	0.5W	5%	56	🔍
R864	ERDS1TJ680	CARBON	0.5W	5%	68	🔍
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	🔍
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	🔍
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7	🔍
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	🔍
R872	ERG1SJ183	METAL	1W	5%	18K	🔍
R873	ERG1SJ223	METAL	1W	5%	22K	🔍
R874	ERD25TJ104	CARBON	0.25W	5%	100K	🔍
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	🔍
R877	ERW2PKR56	WOUND	2W	10%	R56	🔍 ⚠️
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	🔍
R882	ERG2FJ330H	METAL	2W	5%	33	🔍 ⚠️
R913	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	🔍
R914	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2	🔍
R915	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	🔍

Cct Ref	Parts Number	Description				
R916	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	🔍
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39	🔍 ⚠️
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39	🔍 ⚠️
R921	ERD25TJ471	CARBON	0.25W	5%	470	🔍
R922	ERD25TJ393	CARBON	0.25W	5%	39K	🔍
R923	ERD25TJ393	CARBON	0.25W	5%	39K	🔍
R924	ERDS1FJ390	CARBON	0.5W	5%	39	🔍 ⚠️
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R927	ERD25TJ471	CARBON	0.25W	5%	470	🔍
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6	🔍
R929	ERDS1FJ471	CARBON	0.5W	5%	470	🔍 ⚠️
R930	ERD25TJ5R6	CARBON	0.25W	5%	5R6	🔍
R931	ERDS1FJ390	CARBON	0.5W	5%	39	🔍 ⚠️
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9	🔍 ⚠️
R936	ERQ1CJP331	FUSIBLE	1W	5%	330	🔍 ⚠️
R951	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	🔍
R952	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	🔍
R953	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	🔍
R954	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	🔍
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	🔍
R1071	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	🔍
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	🔍
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	🔍
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	🔍
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	🔍
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	🔍
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	🔍
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	🔍
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	🔍
R1111	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	🔍
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	🔍
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	🔍
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	🔍
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	🔍
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	🔍
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	🔍
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	🔍
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	🔍
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	🔍
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1133	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K	🔍
R1136	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K	🔍
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	🔍
R1138	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K	🔍
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	🔍
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	🔍
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	🔍
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	🔍
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	🔍

Cct Ref	Parts Number	Description				
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1162	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R1163	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R1164	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R1165	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1	Ω
R1166	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1	Ω
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K	Ω
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K	Ω
R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2	Ω
R1177	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R1178	ERD25TC0T	CARBON	0.25W	5%	0	Ω
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2104	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2107	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2108	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω
R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6	Ω
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2115	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2118	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2302	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2303	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2306	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2308	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2310	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2312	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2401	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R2402	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R2403	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2404	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2405	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2406	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2407	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2408	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2409	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2410	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2411	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2412	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2413	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6	Ω
R2414	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2415	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	Ω

Cct Ref	Parts Number	Description				
R2416	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R2417	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820	Ω
R2418	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R2419	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47	Ω
R2420	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2421	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R2422	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2423	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2424	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2425	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2426	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2427	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2428	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2429	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2430	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R2431	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2432	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2436	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2437	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2438	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2439	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2440	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2441	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2442	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2445	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω
R2446	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2448	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2449	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2450	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω
R2451	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2454	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2455	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2463	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2464	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R2475	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2476	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2477	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K	Ω
R2478	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2479	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2480	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2481	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2482	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2483	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2484	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2485	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2486	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2487	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2488	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2489	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2490	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2491	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2492	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2493	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R2494	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2495	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2496	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2497	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2498	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2499	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R2501	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2502	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2503	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2504	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2505	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R2515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R2516	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω

Cct Ref	Parts Number	Description				
R2517	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K	Ω
R2518	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω
R2519	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2523	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω
R2524	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω
R2525	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2526	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R2527	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2528	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R2529	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2530	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2531	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2532	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2533	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2534	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R2535	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2536	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R2537	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R2538	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3008	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R3009	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3010	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3011	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3012	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3022	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R3023	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K	Ω
R3024	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R3025	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3026	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3044	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3101	ERDS1TJ151	CARBON	0.5W	5%	150	Ω
R3102	ERDS1TJ151	CARBON	0.5W	5%	150	Ω
R3103	ERG2SJS151	METAL	2W	5%	150	Ω
R3104	ERG2SJS151	METAL	2W	5%	150	Ω
R3105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3107	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R3108	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R3402	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3403	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3404	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4	Ω
R3405	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R3406	ERJ6GEYJ301	S.M.CARB	0.1W	5%	300	Ω
R3407	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K	Ω

Cct Ref	Parts Number	Description				
R3408	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R3409	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R3607	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R3608	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5	Ω
R3609	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R3610	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
CAPACITORS						
C102	ECUV1H103ZFX	S.M. CAP	50V		10nF	
C103	ECJ2VF1H104Z	ELECT	350V		100nF	
C106	ECUV1H560JCX	S.M. CAP	50V		56pF	
C107	ECJ2VF1H104Z	ELECT	350V		100nF	
C108	ECA1CM100GB	ELECT	16V		10μF	
C109	ECUV1H102JCX	S.M. CAP	50V		1nF	
C110	ECUV1H103ZFX	S.M. CAP	50V		10nF	
C111	ECA1HMR33GB	ELECT	50V		10nF	
C117	ECUV1H103ZFX	S.M. CAP	50V		10nF	
C118	ECJ2VF1H104Z	ELECT	350V		100nF	
C119	ECA1CM221GB	ELECT	16V		220μF	
C120	ECA1CM221GB	ELECT	16V		220μF	
C121	ECUV1H561KBX	S.M. CAP	50V		560pF	
C124	ECUV1H220JCX	S.M. CAP	50V		22pF	
C125	ECUV1H100DCX	S.M. CAP	50V		10pF	
C251	ECA1EM330B	ELECT	25V		33pF	
C252	ECUV1H223KBX	S.M. CAP	50V		22nF	
C253	ECA1HM4R7GB	ELECT	50V		4.7μF	
C254	ECQM1H334J	FILM	50V		330nF	
C255	ECA1EM101GB	ELECT	25V		100μF	
C256	ECUV1H223KBX	S.M. CAP	50V		22nF	
C257	ECA1HM4R7GB	ELECT	50V		4.7μF	
C258	ECA1EM330B	ELECT	25V		33pF	
C259	ECQM1H334J	FILM	50V		330nF	
C260	ECA1VM102GB	ELECT	35V		1nF	
C261	ECA1VM102GB	ELECT	35V		1nF	
C262	ECQV1H124JZ	FILM	50V		1nF	
C263	ECA1HM010GB	ELECT	50V		1μF	
C264	ECA1HHG222E	ELECT	50V		1μF	
C265	ECQV1H124JZ	FILM	50V		1μF	
C266	ECA1HM010GB	ELECT	50V		1μF	
C267	ECJ2VB1H104K	ELECT	350V		100nF	
C268	ECJ2VB1H104K	ELECT	350V		100nF	
C270	ECJ2VB1H104K	ELECT	350V		100nF	
C301	ECJ2VB1C104K	ELECT	350V		100nF	
C302	ECJ2VB1C104K	ELECT	350V		100nF	
C303	ECJ2VB1C104K	ELECT	350V		100nF	
C304	ECA1CM100GB	ELECT	16V		10μF	
C354	ECQM2104KZ	FILM	250V		100nF	
C355	ECUV1H471JCX	S.M. CAP	50V		470pF	
C356	ECUV1H471JCX	S.M. CAP	50V		470pF	
C357	ECUV1H471JCX	S.M. CAP	50V		470pF	
C358	ECQM1H224J	FILM	50V		220nF	
C360	ECKC3D152J	CERAMIC	2KV		1.5nF	⚠
C361	ECA1HMR47GB	ELECT	50V		1.5nF	
C363	ECA1VM471GB	ELECT	35V		470μF	
C364	ECUV1H103ZFX	S.M. CAP	50V		10nF	
C366	ECA1CM100GB	ELECT	16V		10μF	
C451	ECUV1H102JX	S.M. CAP	50V		10μF	
C453	ECUV1H152KBX	S.M. CAP	50V		10μF	
C454	ECUV1H223KBM	S.M. CAP	50V		10μF	
C455	ECA1HM100GB	ELECT	50V		10μF	
C456	ECA1HHG221B	ELECT	50V		220μF	

Cct Ref	Parts Number	Description			
C458	ECQB1222JF3	FILM	100V	2.2nF	
C459	222236516154	FILM	160V	2.2nF	
C461	ECCR2H270J	CERAMIC	500V	27pF	
C508	ECQV1H105JZ	FILM	50V	1µF	
C509	ECEA1HU101	ELECT	50V	100µF	
C510	ECUV1H104KBX	S.M. CAP	50V	100µF	
C511	ECQM2683JZ	FILM	250V	68nF	
C551	ECKC3D122J	CERAMIC	2KV	1.2nF	▲
C552	ECWH15H102J	FILM	1500V	1nF	
C554	ECWF2H514J	FILM	500V	1nF	▲
C555	ECWH15H103J	FILM	1500V	10nF	
C556	ECQM4333JC	FILM	400V	33nF	
C557	ECKC2H471J	CERAMIC	500V	470pF	▲
C558	ECA1HHG471E	ELECT	50V	470µF	
C559	ECWF2H684J	FILM	500V	470µF	▲
C560	ECA2GHG2R2B	ELECT	400V	470µF	
C561	ECA1EHG102B	ELECT	25V	470µF	
C562	ECKC2H101J	CERAMIC	500V	100pF	▲
C563	ECA2EHG220B	ELECT	250V	20µF	
C564	ECEA2AU2R2	ELECT	100V	20µF	
C565	ECQP1H273J	FILM	100V	20µF	
C566	ECKC2H471J	CERAMIC	500V	470pF	▲
C567	ECA1EHG102B	ELECT	25V	470pF	
C568	ECKC2H471J	CERAMIC	500V	470pF	▲
C569	ECKC2H102J	CERAMIC	500V	1nF	▲
C601	ECUV1H104KBX	S.M. CAP	50V	1nF	
C602	ECA1HM101GB	ELECT	50V	100µF	
C603	ECUV1H102JCX	S.M. CAP	50V	1nF	
C604	ECJ2VF1H223Z	ELECT	350V	22nF	
C605	ECA1HM101GB	ELECT	50V	100µF	
C606	ECA1HM3R3GB	ELECT	50V	3.3µF	
C607	ECJ2VF1H104Z	ELECT	350V	100nF	
C608	ECUV1H153KBX	S.M. CAP	50V	15nF	
C609	ECUV1H153KBX	S.M. CAP	50V	15nF	
C610	ECUV1H153KBX	S.M. CAP	50V	15nF	
C611	ECUV1H153KBX	S.M. CAP	50V	15nF	
C612	ECUV1H153KBX	S.M. CAP	50V	15nF	
C613	ECUV1H153KBX	S.M. CAP	50V	15nF	
C614	ECUV1H050CCX	S.M. CAP	50V	50pF	
C615	ECUV1H050CCX	S.M. CAP	50V	50pF	
C616	ECA1CM100GB	ELECT	16V	10µF	
C617	ECUV1H223KBX	S.M. CAP	50V	22nF	
C618	ECA1CM221GB	ELECT	16V	220µF	
C619	ECJ2VB1H473K	ELECT	350V	47nF	
C620	ECA1HM101GB	ELECT	50V	100µF	
C621	ECJ2VB1C104K	ELECT	350V	100nF	
C622	ECUV1H683KBX	S.M. CAP	50V	68nF	
C623	ECUV1H102JCX	S.M. CAP	50V	1nF	
C624	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C625	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C626	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C627	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C628	ECA1CM100GB	ELECT	16V	10µF	
C629	ECUV1H104KBX	S.M. CAP	50V	10µF	
C630	ECUV1H100DCX	S.M. CAP	50V	10pF	
C631	ECUV1H683ZFX	S.M. CAP	50V	68nF	
C632	ECUV1H270JCX	S.M. CAP	50V	27pF	
C633	ECUV1H271JCX	S.M. CAP	50V	270pF	
C634	ECUV1H271JCX	S.M. CAP	50V	270pF	
C635	ECUV1H180JCX	S.M. CAP	50V	18pF	
C636	ECUV1H271JCX	S.M. CAP	50V	270pF	
C637	ECUV1H101JCX	S.M. CAP	50V	100pF	
C638	ECUV1H471JCX	S.M. CAP	50V	470pF	
C639	ECUV1H332KBM	S.M. CAP	50V	470pF	
C701	ECA1HHG101B	ELECT	50V	100µF	
C702	ECUV1H103KBX	S.M. CAP	50V	10nF	

Cct Ref	Parts Number	Description			
C703	ECEA1HGE100	ELECT	50V	10µF	
C704	ECQB1H223K	FILM	50V	22nF	
C705	ECQB1H222J	FILM	50V	2.2nF	
C804	ECQE2A474MWB	FILM	100V	470nF	
C806	ECKWNA101MBC	CERAMIC	400V	100µF	
C807	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C808	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C809	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C810	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C811	ECOS2GG181NG	ELECT	400V	180µF	▲
C814	ECKC3D102J	CERAMIC	2KV	1nF	▲
C815	ECKC1H471J	CERAMIC	50V	470pF	
C816	ECA1EM101GB	ELECT	25V	100µF	
C817	ECQE6104K	FILM	600V	100nF	▲
C818	ECKWNA332MEC	CERAMIC	250V	3.3nF	
C819	ECQB1H152K	FILM	50V	1.5nF	
C850	ECKC3D471JB	CERAMIC	2KV	470pF	▲
C851	ECA2CM221E	ELECT	160V	220µF	
C852	ECA2CHG101E	ELECT	160V	100µF	
C853	ECKC2H471J	CERAMIC	500V	470pF	▲
C854	ECA1EM102GB	ELECT	25V	100µF	
C855	ECKC2H471J	CERAMIC	500V	470pF	▲
C856	ECA1AHG222B	ELECT	10V	470pF	
C857	ECKC2H471J	CERAMIC	500V	470pF	▲
C858	ECEA1HGE102	ELECT	50V	470pF	
C859	ECJ2VF1H104Z	ELECT	350V	100nF	
C860	ECA1HM101GB	ELECT	50V	100µF	
C862	ECJ2VF1H104Z	ELECT	350V	100nF	
C863	ECA1HM101GB	ELECT	50V	100µF	
C866	ECJ2VF1H104Z	ELECT	350V	100nF	
C867	ECA1CM100GB	ELECT	16V	10µF	
C868	ECA1CM100GB	ELECT	16V	10µF	
C869	ECA1EM101GB	ELECT	25V	100µF	
C870	ECA1EM471GB	ELECT	25V	470µF	
C871	ECA1CM102B	ELECT	16V	470µF	
C872	ECA1CM471GB	ELECT	16V	470µF	
C873	ECA1CM100GB	ELECT	16V	10µF	
C875	ECA2CM4R7B	ELECT	160V	10µF	
C876	ECA1AHG471E	ELECT	10V	470pF	
C876	ECA1HHG101B	ELECT	50V	100µF	
C902	ECA1VM101GB	ELECT	35V	100µF	
C903	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C904	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C906	ECUV1H471KBX	S.M. CAP	50V	470pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C910	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECEA2CU100	ELECT	160V	10µF	
C913	ECA1HM101GB	ELECT	50V	100µF	
C914	ECA1HM101GB	ELECT	50V	100µF	
C916	ECEA2CGE100	ELECT	160V	10µF	
C950	ECJ2VB1C104K	ELECT	350V	100nF	
C1071	ECUV1H331JCX	S.M. CAP	50V	330pF	
C1072	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1073	ECA1HM101GB	ELECT	50V	100µF	
C1101	ECJ2VF1H104Z	ELECT	350V	100nF	
C1102	ECA0JM101G	ELECT	6.3V	100µF	
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1108	ECJ2VB1H333K	ELECT	350V	33nF	
C1111	ECA1CM100GB	ELECT	16V	10µF	
C1112	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1116	ECUV1H472KBX	S.M. CAP	50V	4.7nF	

Cct Ref	Parts Number	Description		
C1117	ECJ2VF1H104Z	ELECT	350V	100nF
C1118	ECUV1H103KXB	S.M. CAP	50V	10nF
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF
C1120	ECJ2VF1H104Z	ELECT	350V	100nF
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF
C1123	ECUV1H101JCX	S.M. CAP	50V	100pF
C1124	ECUV1H391JCX	S.M. CAP	50V	390pF
C1125	ECUV1H391JCX	S.M. CAP	50V	390pF
C1126	ECUV1H391JCX	S.M. CAP	50V	390pF
C1127	ECUV1H221JCX	S.M. CAP	50V	220pF
C1128	ECUV1H223KXB	S.M. CAP	50V	22nF
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF
C1130	ECA1CM221GB	ELECT	16V	220µF
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF
C2111	ECA1CM100GB	ELECT	16V	10µF
C2112	ECA1CM100GB	ELECT	16V	10µF
C2113	ECA1HM3R3GB	ELECT	50V	3.3µF
C2114	ECJ2VF1H104Z	ELECT	350V	100nF
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF
C2121	ECA1CM100GB	ELECT	16V	10µF
C2122	ECJ2VF1H104Z	ELECT	350V	100nF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H070DTX	S.M. CAP	50V	70pF
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF
C2126	ECUV1H070DTX	S.M. CAP	50V	70pF
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF
C2129	ECA1CM102B	ELECT	16V	1pF
C2130	ECA1CM331B	ELECT	16V	330µF
C2131	ECUV1H103ZFX	S.M. CAP	50V	10nF
C2132	ECUV1H103ZFX	S.M. CAP	50V	10nF
C2133	ECUV1H103ZFX	S.M. CAP	50V	10nF
C2134	ECUV1H103ZFX	S.M. CAP	50V	10nF
C2135	ECA1HM101GB	ELECT	50V	100µF
C2136	ECJ2VF1H104Z	ELECT	350V	100nF
C2137	ECA1CM100GB	ELECT	16V	10µF
C2138	ECUV1H471KXB	S.M. CAP	50V	470pF
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF
C2140	ECA1HM101GB	ELECT	50V	100µF
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2302	ECA1CM470GB	ELECT	16V	47µF
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2304	ECA1CM470GB	ELECT	16V	47µF
C2401	ECUV1H103KXB	S.M. CAP	50V	10nF
C2402	ECUV1H103KXB	S.M. CAP	50V	10nF
C2403	ECA1HM010GB	ELECT	50V	1µF
C2405	ECA1HM010GB	ELECT	50V	1µF
C2406	ECA1HM010GB	ELECT	50V	100µF
C2407	ECA1CM471GB	ELECT	16V	470µF
C2408	ECA1HM010GB	ELECT	50V	1µF
C2409	ECA1CM100GB	ELECT	16V	10µF
C2410	ECUV1H152KXB	S.M. CAP	50V	10µF

Cct Ref	Parts Number	Description		
C2411	ECUV1H221JX	S.M. CAP	50V	10µF
C2412	ECUV1H471KXB	S.M. CAP	50V	470pF
C2413	ECUV1H102KXB	S.M. CAP	50V	1nF
C2414	ECUV1H102KXB	S.M. CAP	50V	1nF
C2415	ECUV1H102KXB	S.M. CAP	50V	1nF
C2416	ECUV1H102KXB	S.M. CAP	50V	1nF
C2418	ECA1CM220GB	ELECT	16V	22µF
C2419	ECA1CM220GB	ELECT	16V	22µF
C2420	ECUV1H152KXB	S.M. CAP	50V	22µF
C2421	ECUV1H471KXB	S.M. CAP	50V	470pF
C2422	ECA1CM100GB	ELECT	16V	10µF
C2423	ECJ2VB1H104K	ELECT	350V	100nF
C2424	ECA1HM3R3GB	ELECT	50V	3.3µF
C2427	ECUV1H152KXB	S.M. CAP	50V	3.3µF
C2428	ECUV1H471KXB	S.M. CAP	50V	470pF
C2429	ECA1CM100GB	ELECT	16V	10µF
C2430	ECUV1H010CCX	S.M. CAP	50V	1pF
C2431	ECUV1H010CCX	S.M. CAP	50V	1pF
C2432	ECUV1H101JCX	S.M. CAP	50V	100pF
C2433	ECA1CM470GB	ELECT	16V	47µF
C2434	ECA1HM010GB	ELECT	50V	1µF
C2435	ECA1HM010GB	ELECT	50V	1µF
C2436	ECUV1H101JCX	S.M. CAP	50V	100pF
C2437	ECUV1H101JCX	S.M. CAP	50V	100pF
C2438	ECA1HM010GB	ELECT	50V	1µF
C2439	ECA1HM010GB	ELECT	50V	1µF
C2440	ECUV1H101JCX	S.M. CAP	50V	100pF
C2441	ECUV1H103KXB	S.M. CAP	50V	10nF
C2445	ECUV1H103KXB	S.M. CAP	50V	10nF
C2451	ECA1CM100GB	ELECT	16V	10µF
C2452	ECJ2VF1H104Z	ELECT	350V	100nF
C2453	ECA1HM010GB	ELECT	50V	1µF
C2454	ECUV1H222KXB	S.M. CAP	50V	2.2nF
C2455	ECA1HM010GB	ELECT	50V	1µF
C2456	ECUV1H222KXB	S.M. CAP	50V	2.2nF
C2457	ECA1HM010GB	ELECT	50V	1µF
C2458	ECUV1H222KXB	S.M. CAP	50V	2.2nF
C2459	ECA1HM010GB	ELECT	50V	1µF
C2460	ECUV1H222KXB	S.M. CAP	50V	2.2nF
C2461	ECA1HM010GB	ELECT	50V	1µF
C2462	ECUV1H222KXB	S.M. CAP	50V	2.2nF
C2463	ECA1HM010GB	ELECT	50V	1µF
C2464	ECA1HM010GB	ELECT	50V	1µF
C2465	ECA1HM010GB	ELECT	50V	1µF
C2466	ECA1HM010GB	ELECT	50V	1µF
C2470	ECA1CM100GB	ELECT	16V	10µF
C2471	ECJ2VB1H104K	ELECT	350V	100nF
C2472	ECUV1H102JCX	S.M. CAP	50V	1nF
C2474	ECA1CM470GB	ELECT	16V	47µF
C2475	ECA1HM010GB	ELECT	50V	1µF
C2476	ECA1HM010GB	ELECT	50V	1µF
C2477	ECA1HM010GB	ELECT	50V	1µF
C2478	ECA1HM010GB	ELECT	50V	1µF
C2479	ECUV1H101JCX	S.M. CAP	50V	100pF
C2480	ECUV1H101JCX	S.M. CAP	50V	100pF
C2481	ECA1HM101GB	ELECT	50V	100µF
C2482	ECA1HM101GB	ELECT	50V	100µF
C2483	ECA1CM470GB	ELECT	16V	47µF
C2484	ECUV1H103KXB	S.M. CAP	50V	10nF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470GB	ELECT	16V	47µF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF

Cct Ref	Parts Number	Description		
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470GB	ELECT	16V	47µF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470GB	ELECT	16V	47µF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470GB	ELECT	16V	47µF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3029	ECA1HM101GB	ELECT	50V	100µF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3033	ECUV1H271JCX	S.M. CAP	50V	270pF
C3034	ECUV1H271JCX	S.M. CAP	50V	270pF
C3035	ECUV1H271JCX	S.M. CAP	50V	270pF
C3101	ECUV1H104KBX	S.M. CAP	50V	270pF
C3102	ECUV1H104KBX	S.M. CAP	50V	270pF
C3103	ECUV1H561JCX	S.M. CAP	50V	560pF
C3104	ECUV1H561JCX	S.M. CAP	50V	560pF
C3105	ECUV1H561JCX	S.M. CAP	50V	560pF
C3106	ECUV1H561JCX	S.M. CAP	50V	560pF
C3107	ECA1HM470GB	ELECT	50V	47µF
C3108	ECA1HM470GB	ELECT	50V	47µF
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF
C3112	ECUV1H271JCX	S.M. CAP	50V	270pF
C3401	ECQM1H224J	FILM	50V	220nF
C3402	ECUV1H101JCX	S.M. CAP	50V	100pF
C3403	ECA1HM101GB	ELECT	50V	100µF
C3404	ECQM1H224J	FILM	50V	220nF
C3405	ECUV1H180JCX	S.M. CAP	50V	18pF
C3406	ECUV1H271JCX	S.M. CAP	50V	270pF
C3407	ECUV1H271JCX	S.M. CAP	50V	270pF
C3408	ECA1HM101GB	ELECT	50V	100µF
C3601	ECA1HM101GB	ELECT	50V	100µF
JSE28	ECUV1H104KBX	S.M. CAP	50V	100µF
TERMINALS AND LINKS				
JK2401	LPR1250-1150	RCA JACK		
JK3101	TJB16673	A.V. TERMINAL		
SWITCHES				
S801	ESB92S11B	SWITCH		
S1201	EVQ23405R	SWITCH		
S1202	EVQ23405R	SWITCH		
S1203	EVQ23405R	SWITCH		
S1204	EVQ23405R	SWITCH		
S1205	EVQ23405R	SWITCH		


Cct Ref	Parts Number	Description
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SCHEMATIC DIAGRAMS FOR MODEL




TX-28LDP4F



(EURO-4 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTES

- RESISTOR**
All resistors are carbon $\frac{1}{4}W$ resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
- CAPACITORS**
All capacitors are ceramic 50V unless marked otherwise. Unit of capacitance is μF unless otherwise stated.
- COIL**
Unit of inductance is μH , unless otherwise stated.
- Components marked "L" on the schematic diagram shows leadless parts.
- TEST POINT**
 :Test Point Position
- EARTH SYMBOL**
 Chassis Earth (Cold)  Line Earth (Hot)
- VOLTAGE MEASUREMENT**
Voltage is measured by a DC voltmeter.
Measurement conditions are as follows:
Power source AC 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position.

-  Indicates the Video signal path
 Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS


- The Power Supply Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits except the Power Circuit, are COLD. Take the following precautions :-
 - Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
 - Do not short circuit the hot and cold circuits as electrical components may be damaged.
 - Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
 - Always disconnect the power plug before removing the chassis.

SCHEMA TECHNIQUE POUR MODELE




TX-28LDP4F



(EURO-4 CHASSIS)

REMARQUE IMPORTANTE POUR LA SÉCURITÉ

Les éléments portant la marque  possèdent des caractéristiques de sécurité spécialisées. Lors du remplacement de l'une quelconque de ces pièces n'utiliser que celles spécifiées par la fabricant.

NOTA

- RESISTANCE**
Toutes les résistances sont des résistance au carbone $\frac{1}{4}W$, sauf indication contraire par les indications suivantes.
L'unité de résistance est l'OHM (Ω) (k=1,000, M=1,000,000)
- CONDENSATEUR**
Toutes les condensateurs sont des condensateurs céramique 50V, sauf indication contraire par les indications suivantes: L'unité de capacité est le μF , sauf indication contraire.
- BOBINE**
L'unité d'inductance est le μH , sauf indication contraire.
- Les composants entourés de pointillés, sur le schéma, représentent des éléments non câblés.
- POINT D'ESSAI**
 Position du point d'essai
- SYMBOL DE TERRE**
 Terre du châssis (froid)  Terre de ligne (chaud)
- MESURE DE TENSION**
La tension est mesurée avec un voltmètre c.c.
Les conditions de mesure sont les suivantes:
Source d'alimentation CA 220V-240V, 50Hz
Signal de réception Signal barre couleur (RF)
Toutes les commandes utilisateur Position maximum.

-  Vidéo
 Audio

Ce schéma est à jour moment de l'impression et modifiable sans préavis.

REMARQUE

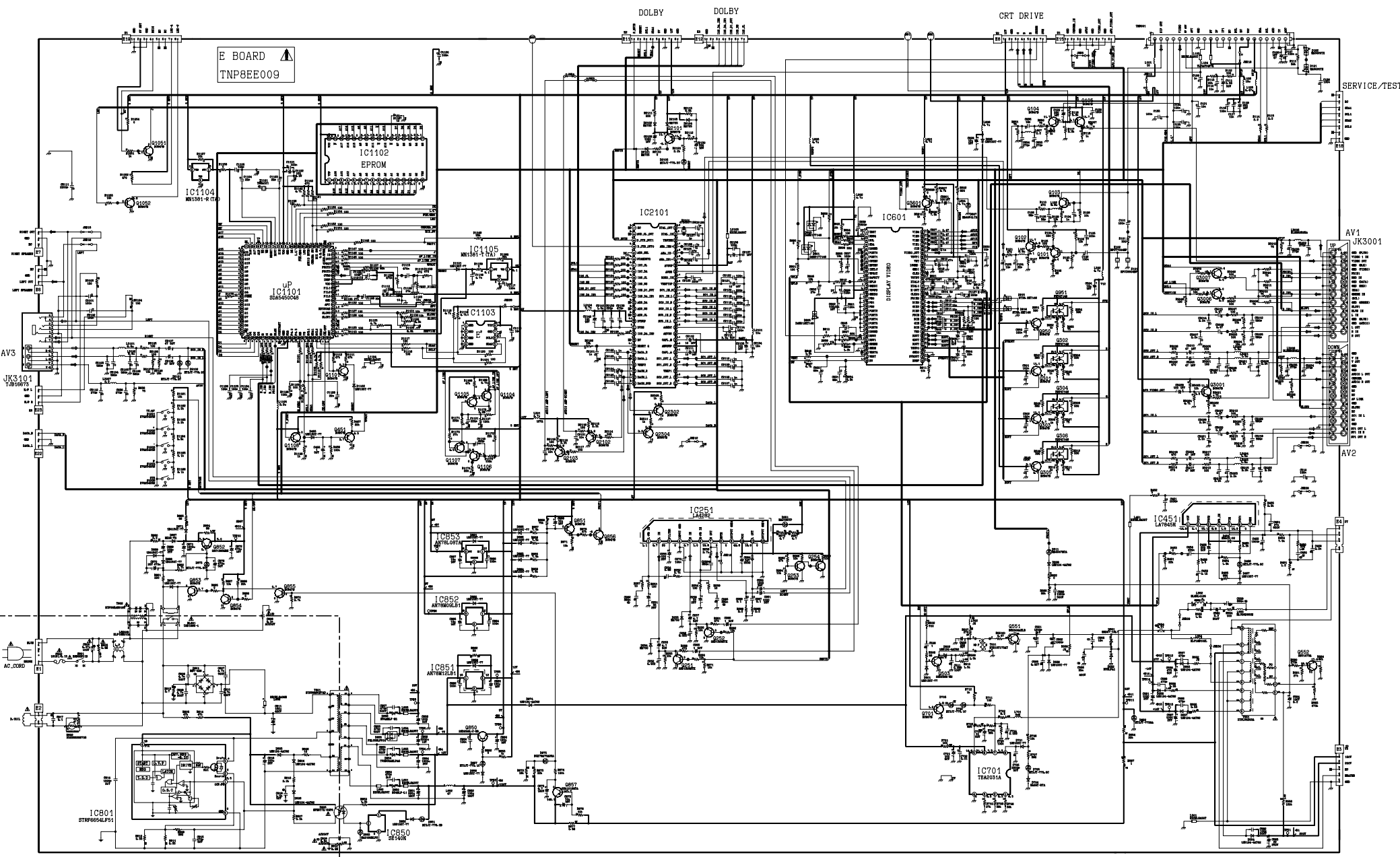
- Le circuit d'alimentation contient une zone de qui utilise une alimentaion séparée pour isoler la connexion à la terre. Le circuit est défini par les indications chaud (HOT) et froid (COLD) dans le diagramme schématique. Prendre les précautions suivantes. Tous les circuits, sauf le circuit d'alimentation, sont froids.
 - Ne pas toucher la partie chaude ou en même temps les parties chaud et froide. Cela présente un risque de décharge électrique.
 - Ne pas court-circuiter les circuits chaud et froid car un fusible peut sauter et des pièces se casser.
 - Ne pas raccorder un instrument, comme un oscilloscope, simultanément aux circuits chaud et froid car un fusible peut sauter. Raccorder la terre des instruments à la connexion de terre du circuit mesuré.
 - Toujours débrancher la fiche d'alimentation avant de déposer le châssis.

E BOARD
TNP8EE009

DOLBY DOLBY

CRT DRIVE

SERVICE/TEST



AV3

JK3101
TUB8605

AC 200V

IC801
STR8654LFS1

IC1104
M5191-R

IC1101
CPU

IC1102
EPROM

IC1103
C

IC1105

IC1201

IC601
DISPLAY VIDEO

IC251
L

IC852
ART6805L

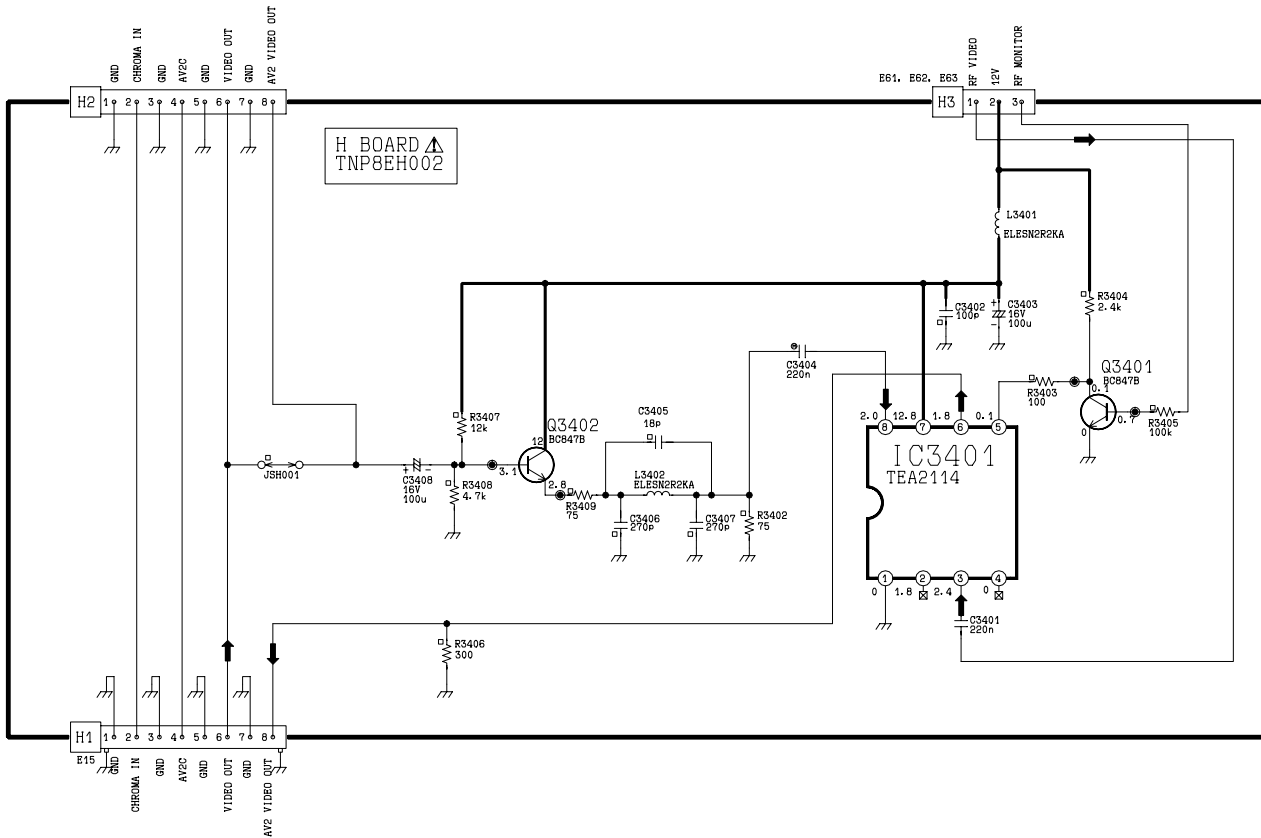
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ART6805L

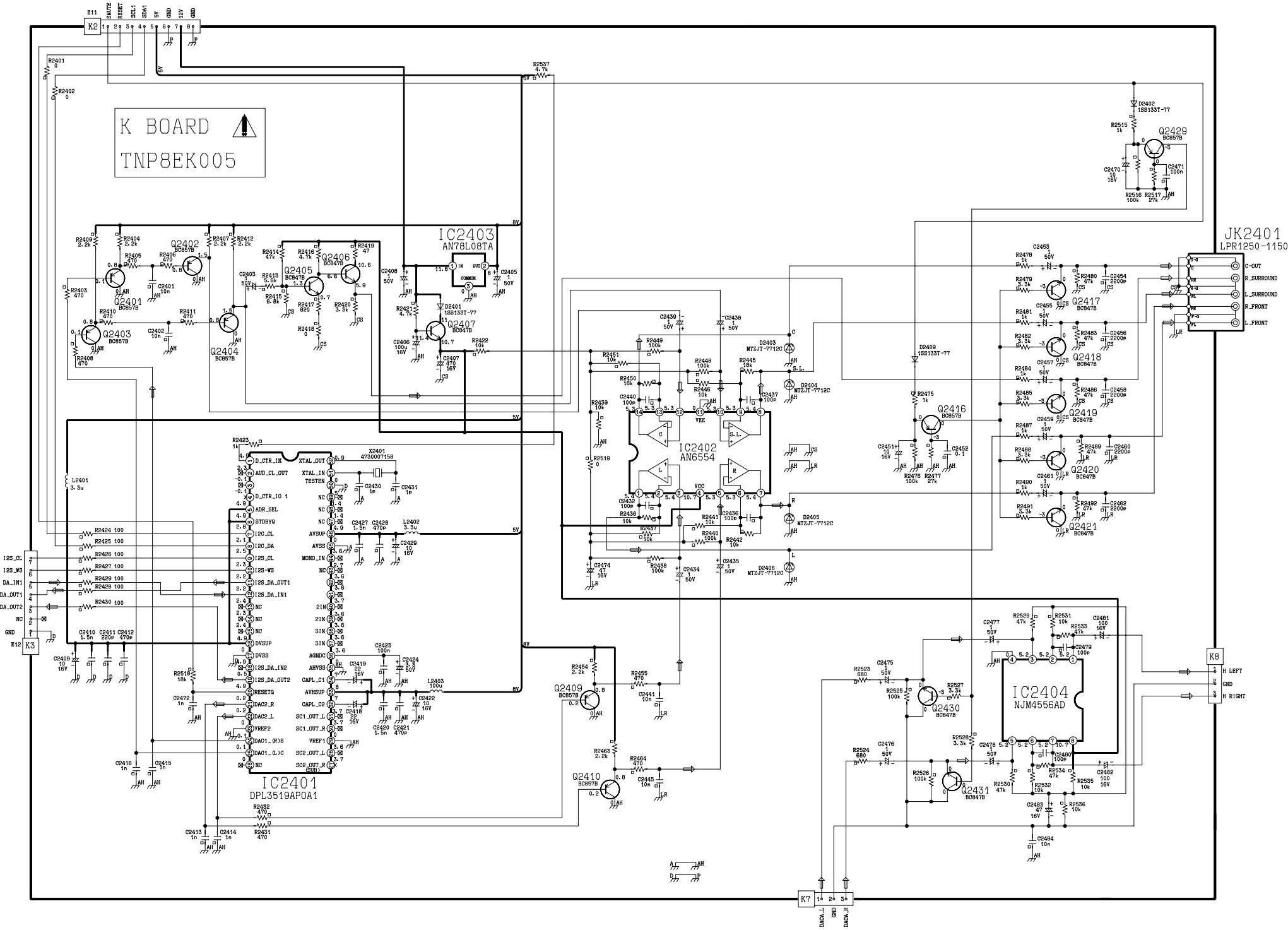
IC451
LAPACK

IC701
TEAROFF

AV1
JK3001

AV2





K BOARD
TNP8EK005

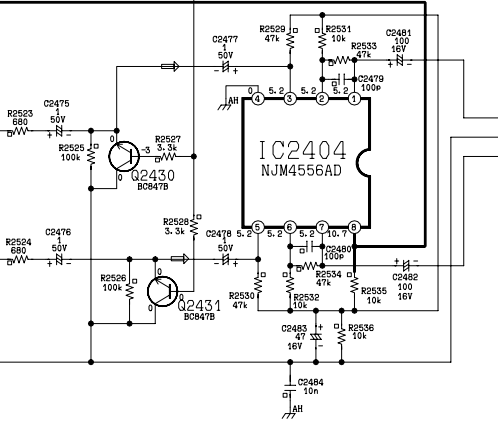
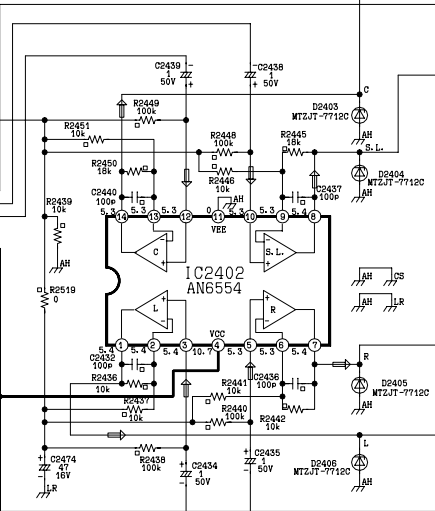
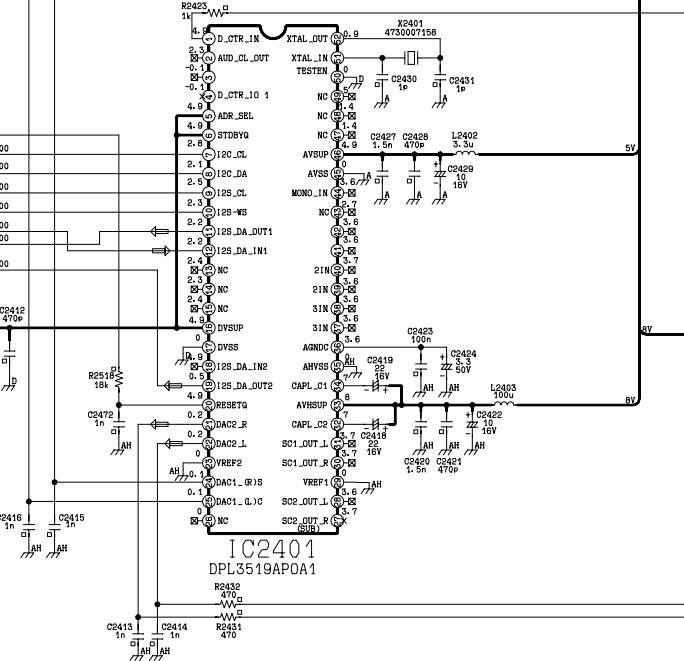
JK2401
LPR1250-1150

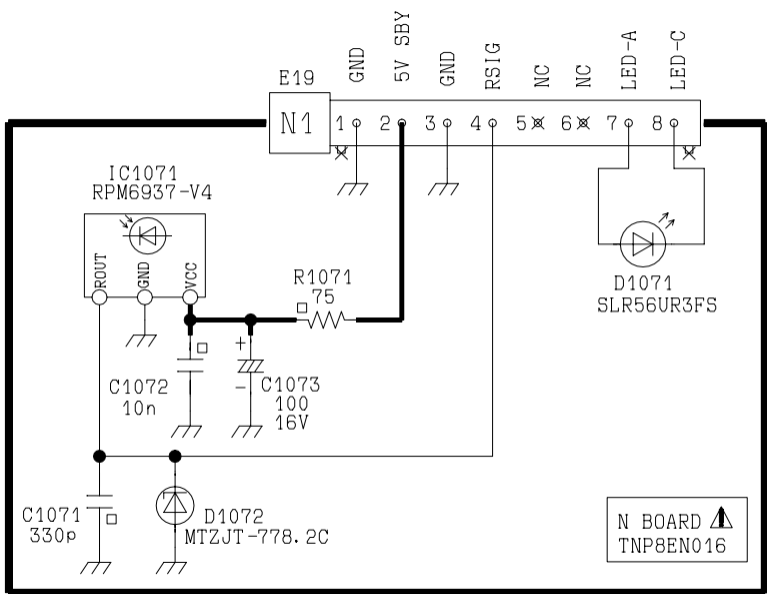
12S_CL
12S_MS
DA_IN1
DA_OUT1
DA_OUT2
GND
E12

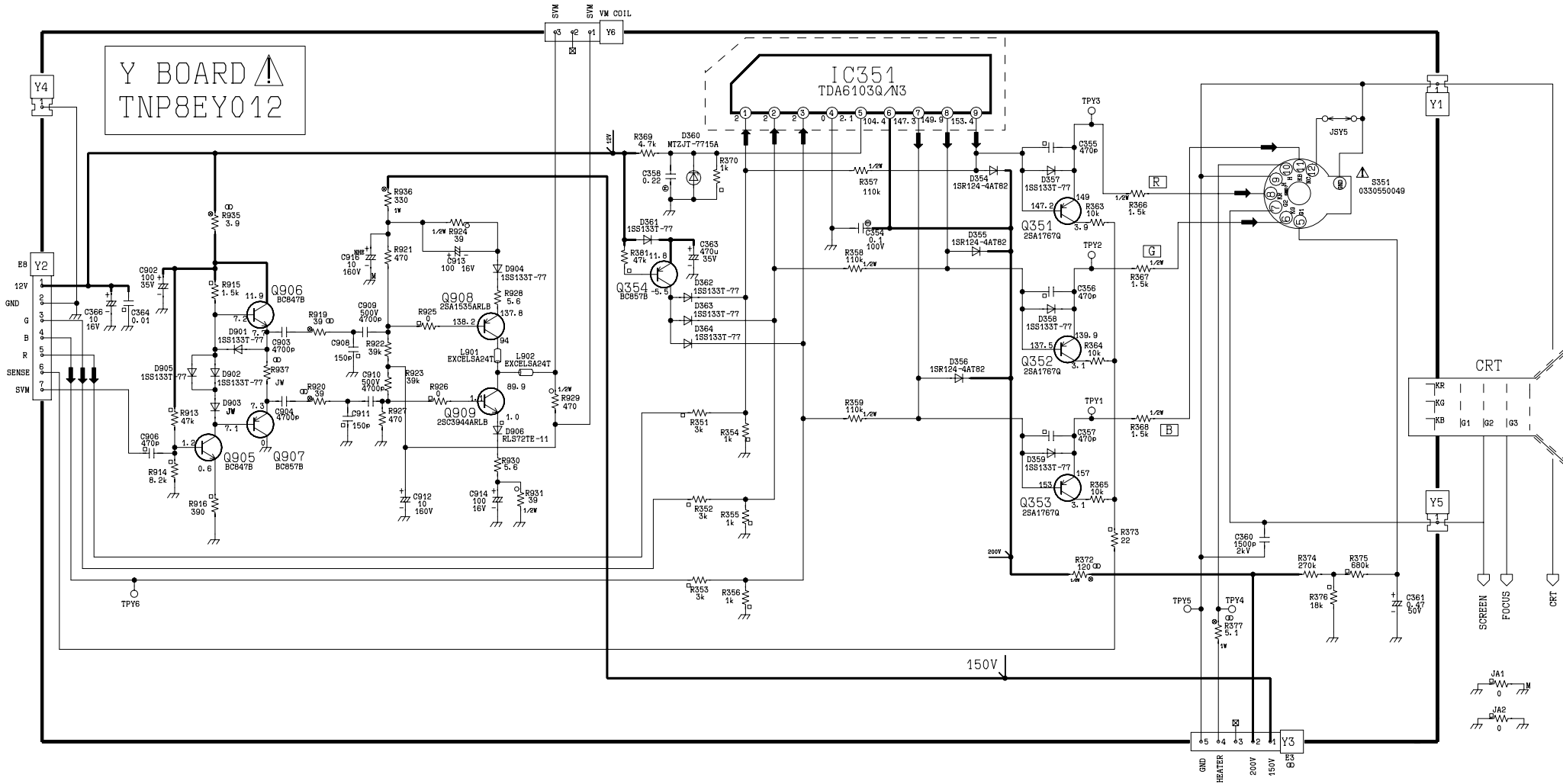
C-OUT
R-SURROUND
L-SURROUND
R-FRONT
L-FRONT

K8
H LEFT
GND
H RIGHT

K7
DA_IN_L
GND
DA_IN_R

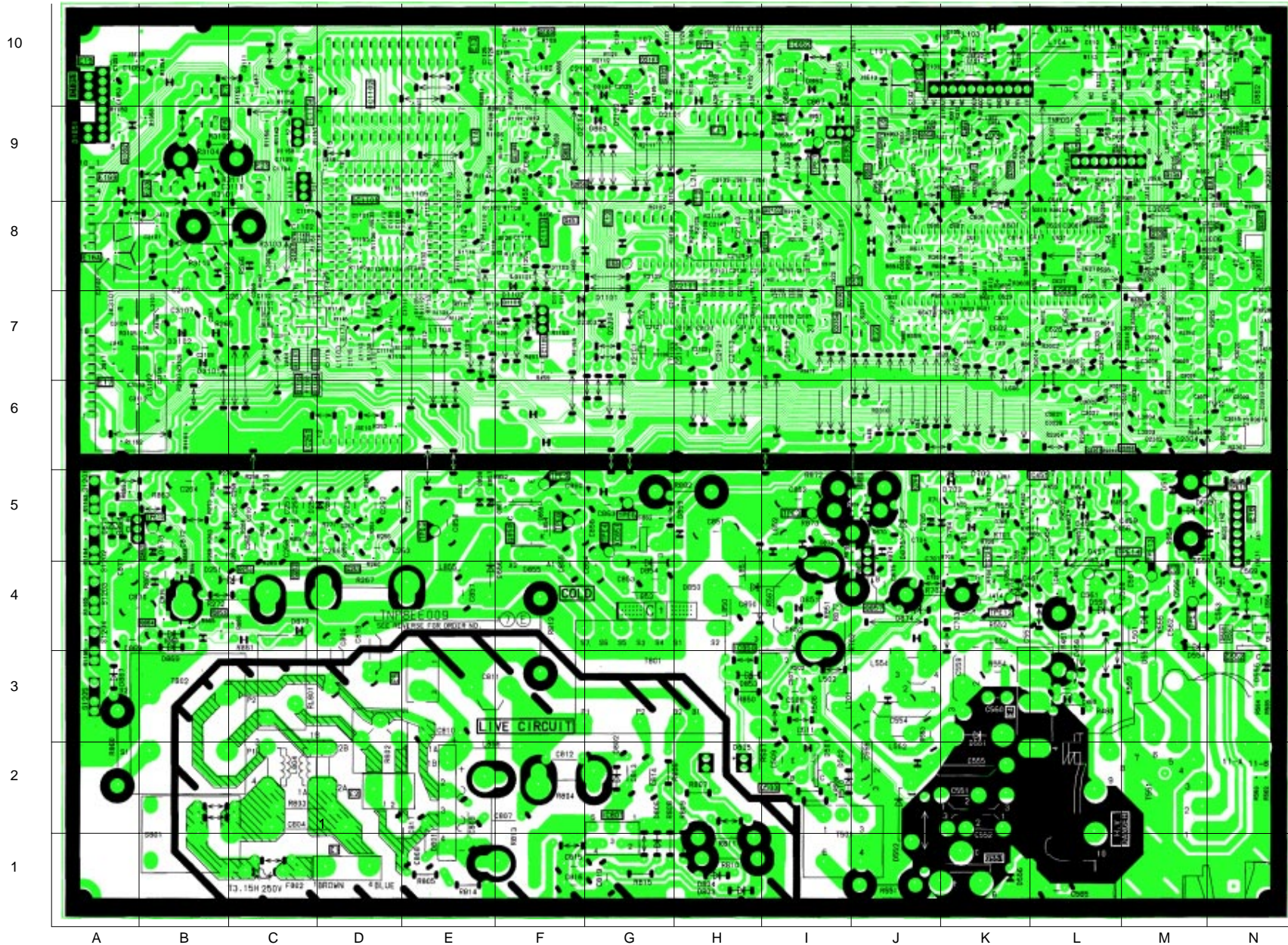






E - BOARD TNP8EE009

TRAN'S	DIODES	D558	L4		
Q3601	L8	D3103	B7	D557	M4
Q3007	M9	D3101	B7	D556	K1
Q3001	N8	D3102	B7	D555	N3
Q3006	N10	D2161	G9	D554	M4
Q2304	I7	D2105	G10	D553	K4
Q2303	M6	D2104	F9	D552	J2
Q2301	I7	D2103	G10	D551	K3
Q2103	I8	D2102	G9	D511	M5
Q2102	H8	D1103	F8	D502	I2
Q2101	G10	D1102	F7	D501	I2
Q1108	F9	D1101	G7	D457	L5
Q1107	C7	D1051	A9	D456	L5
Q1106	C7	D875	J5	D454	L5
Q1105	C7	D874	J4	D453	F9
Q1104	C7	D873	B5	D254	C5
Q1101	F7	D871	A5	D253	C5
Q1052	A9	D870	B71	D252	B5
Q1051	C8	D869	B4	D251	B4
Q951	J9	D868	B4	IC'S	
Q950	J9	D867	A3	IC2101	H8
Q857	J4	D866	I9	IC1105	F7
Q856	F9	D865	I9	IC1104	C9
Q855	J5	D864	I10	IC1103	F8
Q854	B4	D863	G9	IC1102	D10
Q853	B4	D862	N10	IC1101	D8
Q852	B5	D861	J9	IC1051	A10
Q850	F5	D860	I10	IC852	I10
Q701	J5	D859	H5	IC851	G5
Q552	N3	D858	E5	IC850	H4
Q551	K1	D857	E5	IC801	G2
Q503	I2	D855	F4	IC701	K5
Q451	F8	D854	G4	IC601	L7
Q394	K9	D853	H3	IC451	L5
Q305	K9	D852	I4	IC251	D6
Q303	K9	D851	I4	TP'S	
Q302	J9	D850	H4	TPE14	M5
Q301	K9	D806	G2	TPE13	M4
Q253	C4	D805	H2	TPE12	K4
Q252	C4	D804	H1	TPE11	N5
Q252	C4	D803	H1	TPE10	B5
Q251	D4	D802	G2	TPE9	E5
Q105	M8	D801	E1	TPE8	F5
Q104	M9	D705	J5	TPE7	I9
Q103	F10	D704	K5	TPE6	J10
Q102	G10	D703	K5	TPE5	G5
Q101	H10	D702	K5	TPE4	G5
		D701	K5	TPE3	E5
		D609	M5	TPE2	I5
		D607	L9	TPE1	M4



Y - BOARD TNP8EY012

TRANSISTORS

Q909	E1
Q908	C2
Q907	F4
Q906	G3
Q905	F5
Q354	A7
Q353	G6
Q352	F6
Q351	F6

DIODES

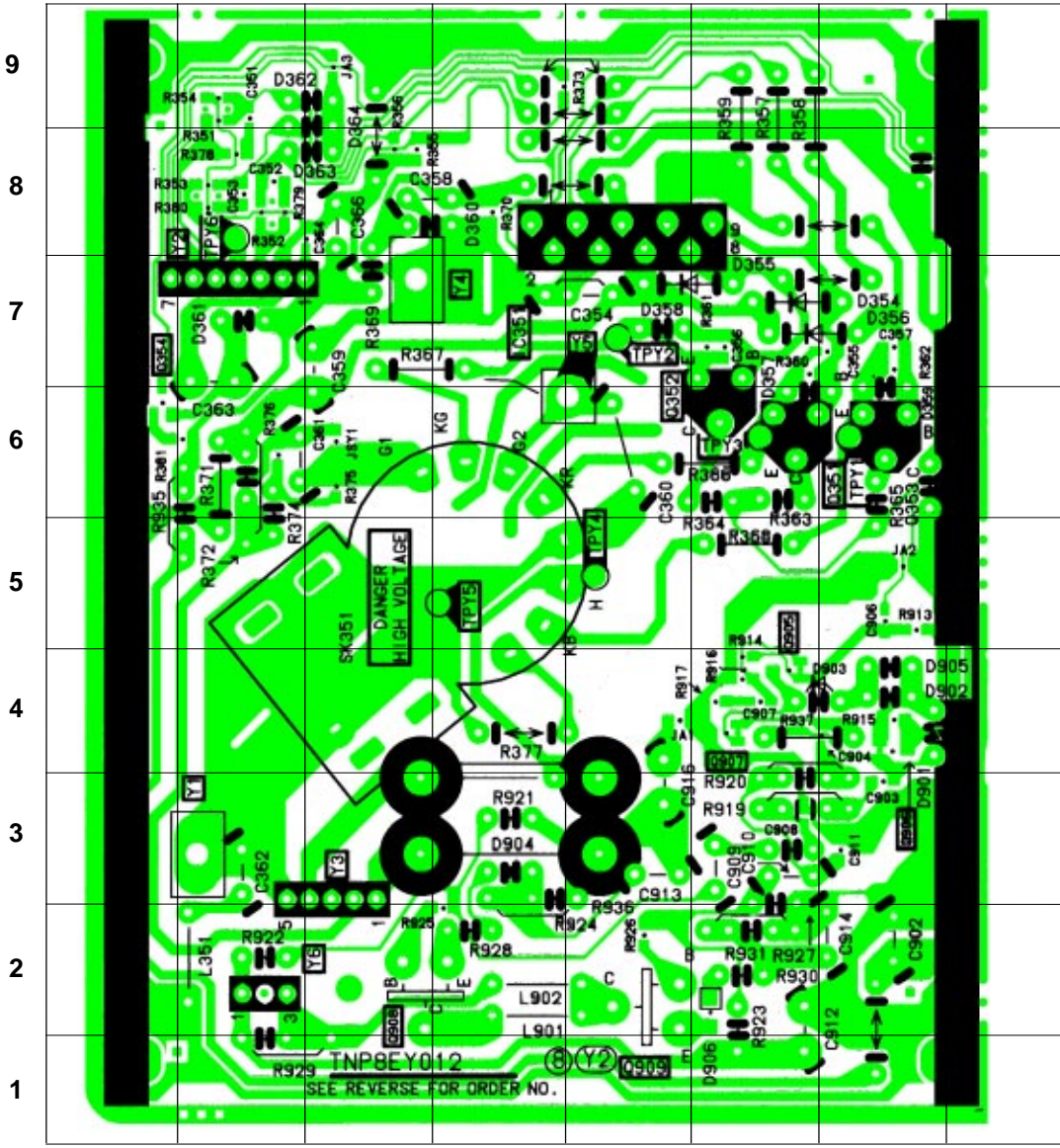
D906	F1
D905	G4
D904	D3
D902	G4
D901	G3
D364	C9
D363	C8
D362	B9
D361	B7
D360	D8
D359	G6
D358	E7
D357	F7
D356	G7
D355	F7
D354	G7

TEST POINTS

TPY6	B8
TPY5	D5
TPY4	E5
TPY3	F6
TPY2	E7
TPY1	G6

IC'S

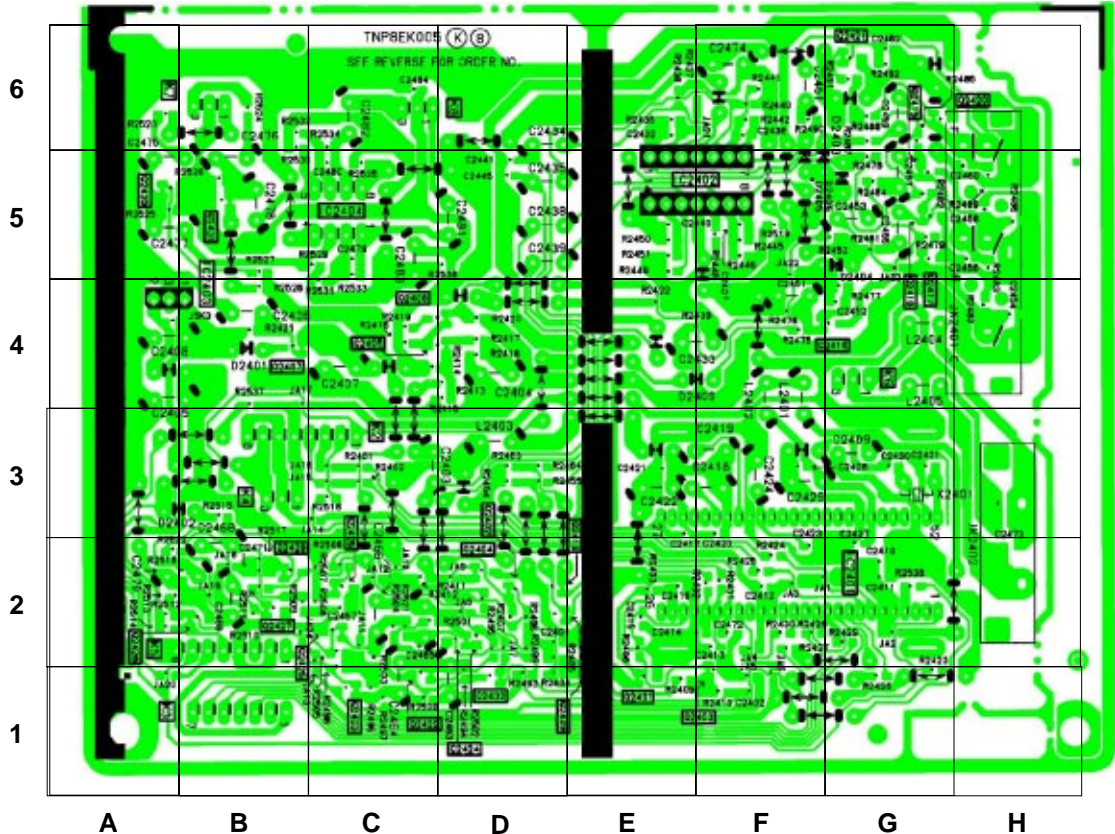
IC351	E8
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A B C D E F G H

K - BOARD TNP8EK005

TRAN'S	
D2	Q2432
B5	Q2431
A5	Q2430
B2	Q2429
A2	Q2428
B2	Q2427
C2	Q2426
C2	Q2425
D2	Q2424
C1	Q2423
C1	Q2422
G6	Q2421
G6	Q2420
G5	Q2419
G5	Q2418
G5	Q2417
F4	Q2416
D2	Q2410
D2	Q2409
B4	Q2407
C4	Q2406
C4	Q2405
D2	Q2404
F1	Q2403
D2	Q2402
E1	Q2401
IC'S	
C5	IC2404
A4	IC2403
E5	IC2402
G2	IC2401
DIODES	
E4	D2409
G5	D2408
F5	D2406
F5	D2405
A3	D2402
B4	D2401



A B C D E F G H

