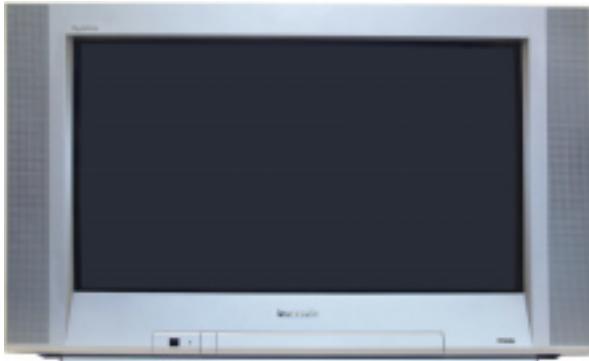


Service Manual



SPECIFICATIONS

| | |
|-----------------------------------|--|
| Power Source: | 220-240V a.c., 50Hz |
| Power Consumption: | 123W |
| Standby Power Consumption: | 1,4W |
| Aerial Impedance: | 75Ω unbalanced, Coaxial Type |
| 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 A-H (ITALY) VHF R3-R5 UHF E21-E69 CATV S1-S10 (M1-M10) CATV S21-S41 (HYPERBAND) |
| Intermediate Frequency: | 38,9MHz, 34MHz 32,9MHz, 33,16MHz, 33,4MHz 40,4MHz, 32,4MHz (A2 STEREO) 33,05MHz, 34,05MHz (NICAM) |
| Colour | 32,66MHz, 32,4MHz (CZECH STEREO) 34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM) |
| Video/Audio Terminals: | |
| AV1 IN | Audio (RCAx2) 500mV rms 1kΩ 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 |
| High Voltage: | 30,5kV ± 1kV |
| Picture Tube: | W76ESF031X44 76cm |
| Audio Output: | 2 x 15W (Music Power) 8Ω Impedance |
| Headphones: | 8Ω Impedance |
| Accessories supplied: | Remote Control 2 x R6 (UM3) Batteries |
| Dimensions: | |
| Height: | 561mm |
| Width: | 896mm |
| Depth: | 554mm |
| Net Weight: | 50kg |

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.
NOTE: This Service Manual should be used in conjunction with the EURO-4H technical guide.

Colour Television TX-32DK20F TX-32DK20D TX-32DK20D/B EURO-4H Chassis

CARACTÉRISTIQUES

| | |
|---------------------------------|--|
| Alimentation: | 220-240V a.c., 50Hz |
| Consommation: | 123W |
| Standby Consommation: | 1,4W |
| Impédance d'antenne: | 75Ω asymétrique sur prise coaxiale |
| 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 A-H (ITALY) VHF R3-R5 UHF E21-E69 CATV S1-S10 (M1-M10) CATV S21-S41 (HYPERBAND) |
| Fréquence Intermédiaire: | 38,9MHz, 34MHz 32,9MHz, 33,16MHz, 33,4MHz 40,4MHz, 32,4MHz (A2 STEREO) 33,05MHz, 34,05MHz (NICAM) |
| Couleur | 32,66MHz, 32,4MHz (CZECH STEREO) 34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM) |
| Les bornes vidéo/audio: | |
| SORTIE AUDIO MONITOR | Audio (RCAx2) 500mV rms 1kΩ |
| 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 |
| Entrée AV3 | Étre sélectionnée Audio (RCAx2) 500mV rms 10kΩ Video (RCAx1) 1V p-p 75Ω |
| Tension d'anode: | 30,5kV ± 1kV |
| Tube image: | W76ESF031X44 76cm |
| Sortie Audio: | 2 x 15W (Music Power) 8Ω Impédance |
| Casque d'écoute: | 8Ω Impédance |
| Accessories fournis: | Télécommande R6 (UM3) x 2 Piles |
| Dimensions: | |
| Hauteur: | 561mm |
| Largeur: | 896mm |
| Profondeur: | 554mm |
| Poids (NET): | 50kg |

Les caractéristiques techniques sont susceptibles de modification sans préavis.
Le poids et les dimensions indiqués sont approximatifs.
Ce manuel de service doit être utilisé avec le guide technique EURO-4H.

Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. 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 a.c. outlet.
5. Potentials as high as 31,5kV 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 a.c. 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 a.c. 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 cort-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 31,5kV, 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 a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a $2k\Omega$ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. 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 a.c. 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.

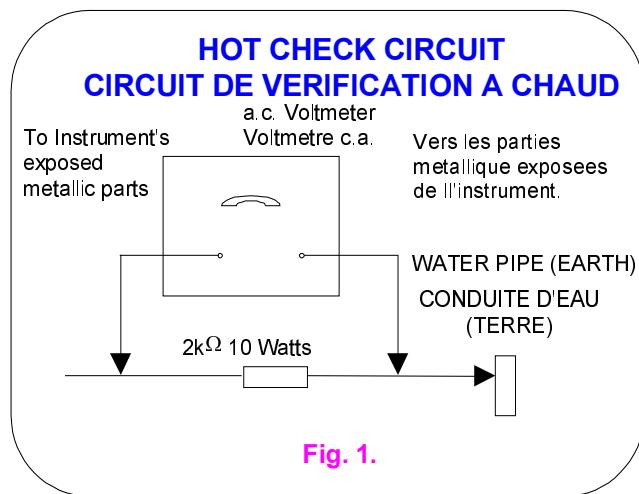


Fig. 1.

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 31,5kV 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 $30,5kV \pm 1kV$. 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 $2k\Omega$, 10W, en série avec une partie métallique exposée du récepteur et une terre comme une conduite d'eau.
3. Utiliser un voltmètre c.a., 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 c.a. 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 31,5kV 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. $30,5kV \pm 1kV$. La valeur nominale est de 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 9 screws (A) as shown in Fig.2.

SUGGESTIONS DE DEPANNAGE

COMMENT RETIRER LE PENNEAU ARRIÈRE

1. Retirer les 9 vis (A) comme sur la Fig.2.

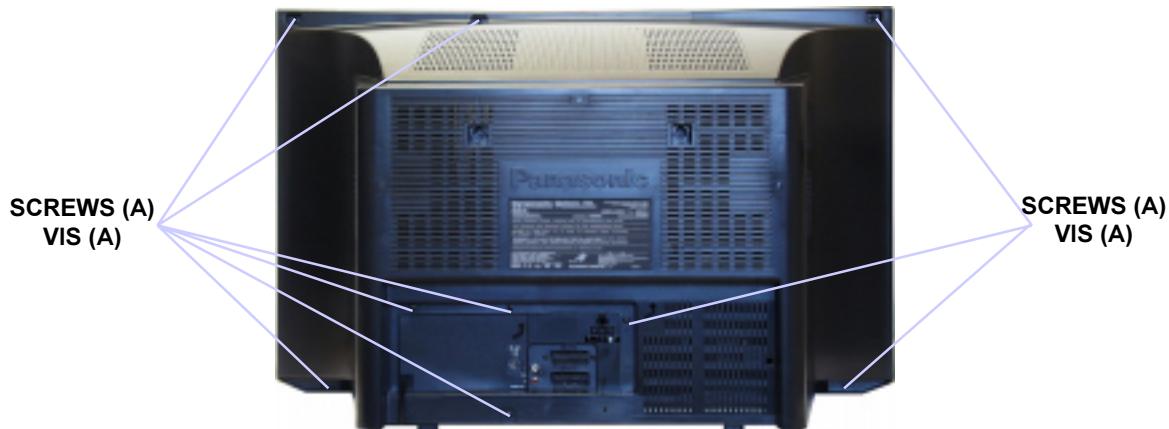


Fig.2.

LOCATION OF CONTROLS

EMPLACEMENT DES COMMANDES

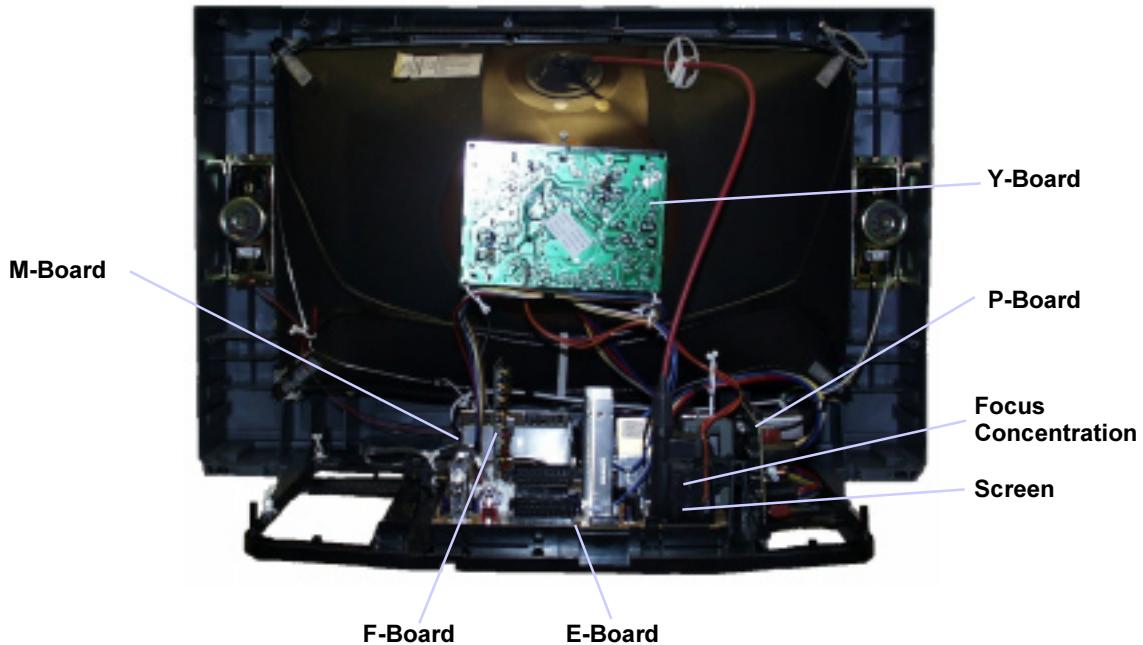


Fig.3.

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove the bead clamper from the mains lead and affix, using back cover screw, into top right-hand cabinet rib (A), shown in **Fig.4.**
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.4.**
3. Release the respective wiring clips and rotate the chassis vertically through 90°, anti-clockwise.
4. Locate the base of the chassis frame into location (B), shown in **Fig.5./Fig.7.**
5. Clip the chassis frame onto the bead clamper, shown in **Fig.5./Fig.6.**
6. After servicing replace the bead clamper and speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

COMMENT METTRE LE CHASSIS EN POSITION SERVICE

1. Détacher le collier de verrouillage à perle du cordon secteur et le fixer, en utilisant une vis du couvercle arrière, dans le renfort supérieur droit du boîtier (A), comme montré **Fig.4.**
2. Saisir et incliner l'arrière du chassis et tirer légèrement le chassis vers soi, comme montré **Fig.4.**
3. Relâcher les clips de fixation des fils et tourner le chassis verticalement de 90°, dans le sens contraire des aiguilles d'une montre.
4. Placer la base du cadre du chassis à l'emplacement, comme montré sur la **Fig.5./Fig.7.**
5. Verrouiller le cadre du chassis dans le collier de verrouillage à perle, comme montré sur la **Fig.5./Fig.6.**
6. Après réparation replacer le collier de verrouillage à perle et le haut-parleur, et s'assurer que tout le cablage est retourné dans sa position d'origine avant de retourner l'appareil à l'utilisateur.

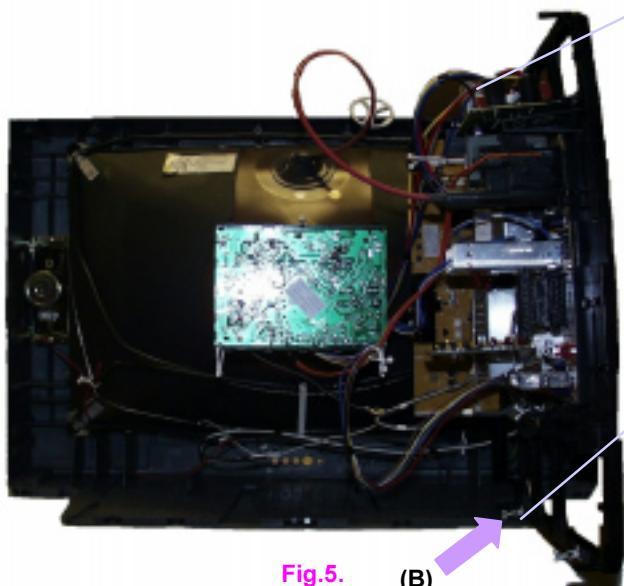
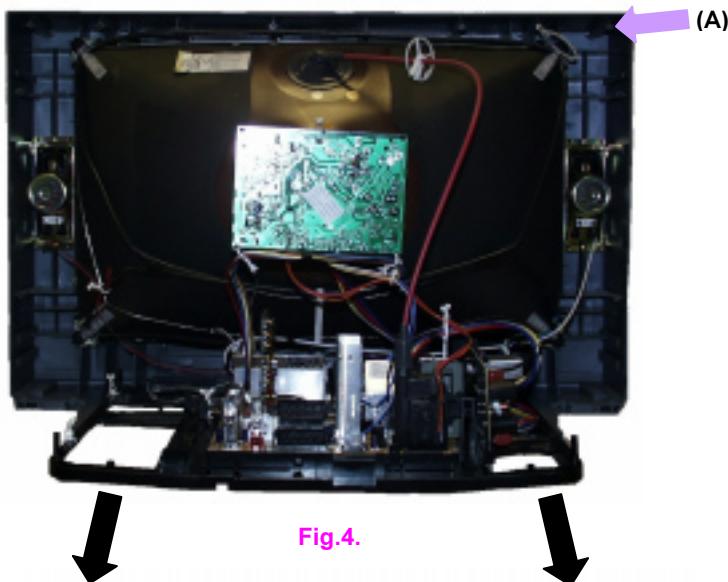


Fig.6.



Fig.7.

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 :-

| | | | |
|-------------------|------|-------------------|---|
| VPC | O.K. | PCB | O.K. |
| CIP | O.K. | Cab | O.K. |
| SRC | O.K. | Sum | Factory use only Nur für Herstellung |
| DDP | O.K. | | |
| TUN | O.K. | | |
| E2 | O.K. | | |
| MSP | O.K. | | |
| DPL | -- | | |
| TX-28DK20D | | TX-28DK20F | |
| OPTION1 39 | | OPTION1 39 | |
| OPTION2 1D | | OPTION2 1D | |
| OPTION3 2F | | OPTION3 2F | |
| OPTION4 00 | | OPTION4 00 | |
| OPTION5 FF | | OPTION5 FD | |
| OPTION6 A5 | | OPTION6 A5 | |

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 apparaît " -- " 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, Tzs8EZ001 & Tzs9EZ001
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 câbles 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 accès rapide aux informations de Service.
Ref.
Tzs7EZ006, Tzs7EZ005, Tzs8EZ001 & Tzs9EZ001
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 accès rapide aux informations techniques.

ADJUSTMENT PROCEDURE

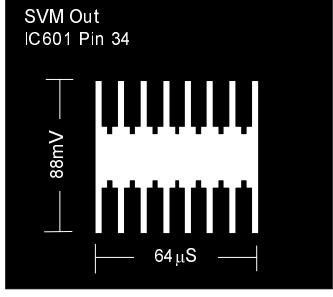
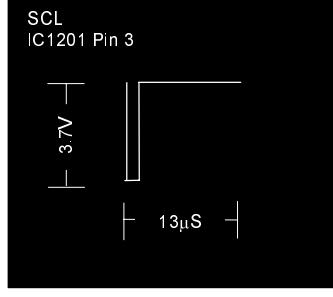
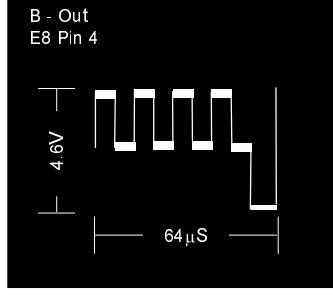
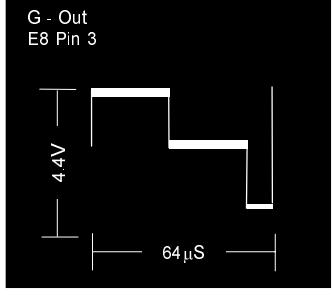
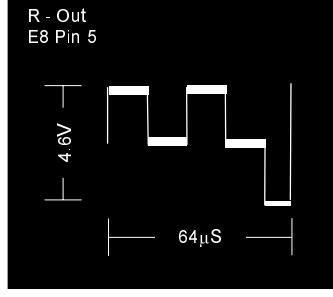
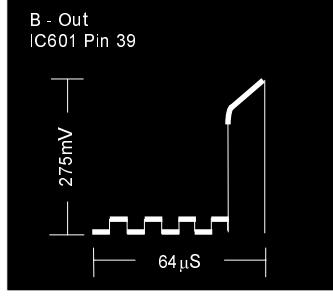
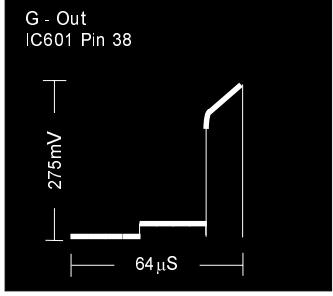
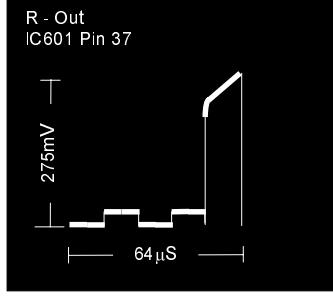
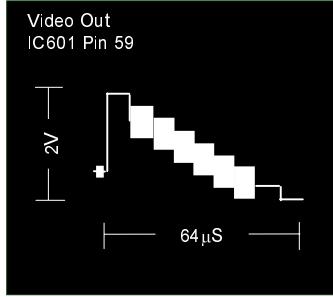
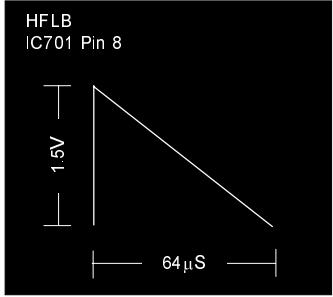
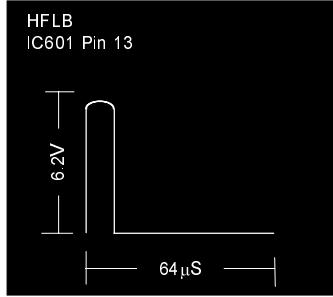
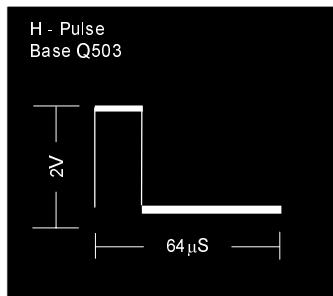
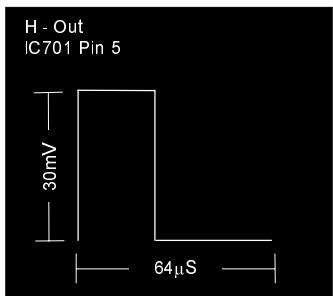
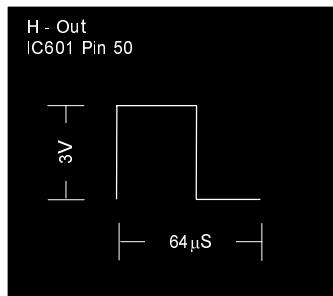
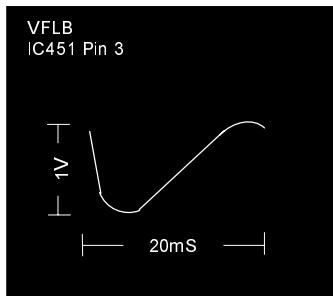
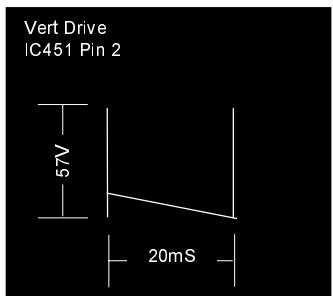
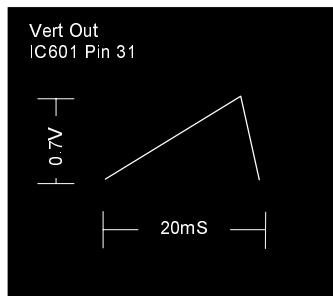
| Item/Preparation | Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------|-----------|-------|-------|------------|------------|-------|-------|-------|----------|---------|-----------|----|-------|------|------------|----|-------|------|--------|---------|-----------|----|-------|----|-----------|---|-------|------|--|--|------------|----|-------|----|-----------|---|-------|----|--|--|-----------|----|-------|------|------------|----|-------|----|--|--|-----------|-----|-------|-----|------------|----|-------|----|--|
| <p style="text-align: center;">+B SET-UP</p> <ol style="list-style-type: none"> Receive a Greyscale signal. Set the controls:- <table> <tr> <td>Brightness</td> <td>Minimum</td> <td>B9</td> <td>5</td> <td>\pm</td> <td>0,25V</td> <td>B10</td> <td>5</td> <td>\pm</td> <td>0,25V</td> </tr> <tr> <td>Contrast</td> <td>Minimum</td> <td>B5</td> <td>12</td> <td>\pm</td> <td>0,5V</td> <td>B11</td> <td>33</td> <td>\pm</td> <td>1,5V</td> </tr> <tr> <td>Volume</td> <td>Minimum</td> <td>B4</td> <td>15</td> <td>\pm</td> <td>1V</td> <td>B7</td> <td>8</td> <td>\pm</td> <td>0,5V</td> </tr> <tr> <td></td> <td></td> <td>B12</td> <td>26</td> <td>\pm</td> <td>2V</td> <td>B8</td> <td>6</td> <td>\pm</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td>B3</td> <td>36</td> <td>\pm</td> <td>1,5V</td> <td>B13</td> <td>13</td> <td>\pm</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td>B1</td> <td>205</td> <td>\pm</td> <td>10V</td> <td>B14</td> <td>14</td> <td>\pm</td> <td>1V</td> </tr> </table> | Brightness | Minimum | B9 | 5 | \pm | 0,25V | B10 | 5 | \pm | 0,25V | Contrast | Minimum | B5 | 12 | \pm | 0,5V | B11 | 33 | \pm | 1,5V | Volume | Minimum | B4 | 15 | \pm | 1V | B7 | 8 | \pm | 0,5V | | | B12 | 26 | \pm | 2V | B8 | 6 | \pm | 1V | | | B3 | 36 | \pm | 1,5V | B13 | 13 | \pm | 1V | | | B1 | 205 | \pm | 10V | B14 | 14 | \pm | 1V | <ol style="list-style-type: none"> Set the +B voltage up as follows:- Adjust R811 so that B2 shows $148V \pm 2V$. Confirm the following voltages. |
| Brightness | Minimum | B9 | 5 | \pm | 0,25V | B10 | 5 | \pm | 0,25V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contrast | Minimum | B5 | 12 | \pm | 0,5V | B11 | 33 | \pm | 1,5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume | Minimum | B4 | 15 | \pm | 1V | B7 | 8 | \pm | 0,5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B12 | 26 | \pm | 2V | B8 | 6 | \pm | 1V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B3 | 36 | \pm | 1,5V | B13 | 13 | \pm | 1V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B1 | 205 | \pm | 10V | B14 | 14 | \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. Press "STR" and 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.</p> <p>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> <tr> <td>Lumière</td> <td>Minimum</td> <td>B9</td> <td>5</td> <td>\pm</td> <td>0,25V</td> <td>B10</td> <td>5</td> <td>\pm</td> <td>0,25V</td> </tr> <tr> <td>Contraste</td> <td>Minimum</td> <td>B5</td> <td>12</td> <td>\pm</td> <td>0,5V</td> <td>B11</td> <td>33</td> <td>\pm</td> <td>1,5V</td> </tr> <tr> <td>Volume</td> <td>Minimum</td> <td>B4</td> <td>15</td> <td>\pm</td> <td>1V</td> <td>B7</td> <td>8</td> <td>\pm</td> <td>0,5V</td> </tr> <tr> <td></td> <td></td> <td>B12</td> <td>26</td> <td>\pm</td> <td>2V</td> <td>B8</td> <td>6</td> <td>\pm</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td>B3</td> <td>36</td> <td>\pm</td> <td>1,5V</td> <td>B13</td> <td>13</td> <td>\pm</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td>B1</td> <td>205</td> <td>\pm</td> <td>10V</td> <td>B14</td> <td>14</td> <td>\pm</td> <td>1V</td> </tr> </table> | Lumière | Minimum | B9 | 5 | \pm | 0,25V | B10 | 5 | \pm | 0,25V | Contraste | Minimum | B5 | 12 | \pm | 0,5V | B11 | 33 | \pm | 1,5V | Volume | Minimum | B4 | 15 | \pm | 1V | B7 | 8 | \pm | 0,5V | | | B12 | 26 | \pm | 2V | B8 | 6 | \pm | 1V | | | B3 | 36 | \pm | 1,5V | B13 | 13 | \pm | 1V | | | B1 | 205 | \pm | 10V | B14 | 14 | \pm | 1V | <ol style="list-style-type: none"> Régler les tensions +B comme suit: Régler R811 tel que la tension B2 soit de $148V \pm 2V$. Confirmer le réglage: |
| Lumière | Minimum | B9 | 5 | \pm | 0,25V | B10 | 5 | \pm | 0,25V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contraste | Minimum | B5 | 12 | \pm | 0,5V | B11 | 33 | \pm | 1,5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume | Minimum | B4 | 15 | \pm | 1V | B7 | 8 | \pm | 0,5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B12 | 26 | \pm | 2V | B8 | 6 | \pm | 1V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B3 | 36 | \pm | 1,5V | B13 | 13 | \pm | 1V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B1 | 205 | \pm | 10V | B14 | 14 | \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". Appuyer sur "STR" et 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

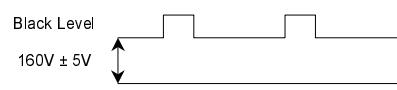
TABLEAU DES OSCILLOGRAMMES



ALIGNMENT SETTINGS:

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

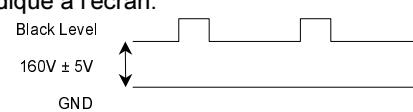
1. Set the Bass to maximum position, set the Treble to minimum position, press the down button (- / v) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode.
2. Press the **RED / GREEN** buttons 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.

| 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. Press " STR " and 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. |
| Ug2 Test | Ug2 055 O.K. | Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."  |
| Highlight Lowlight | High 0902 0777 0864 Low 0117 0132 0112 | Optimum setting. |
| Sub-Brightness | Sub-Brightness 255 | Optimum setting. |

REGLAGES

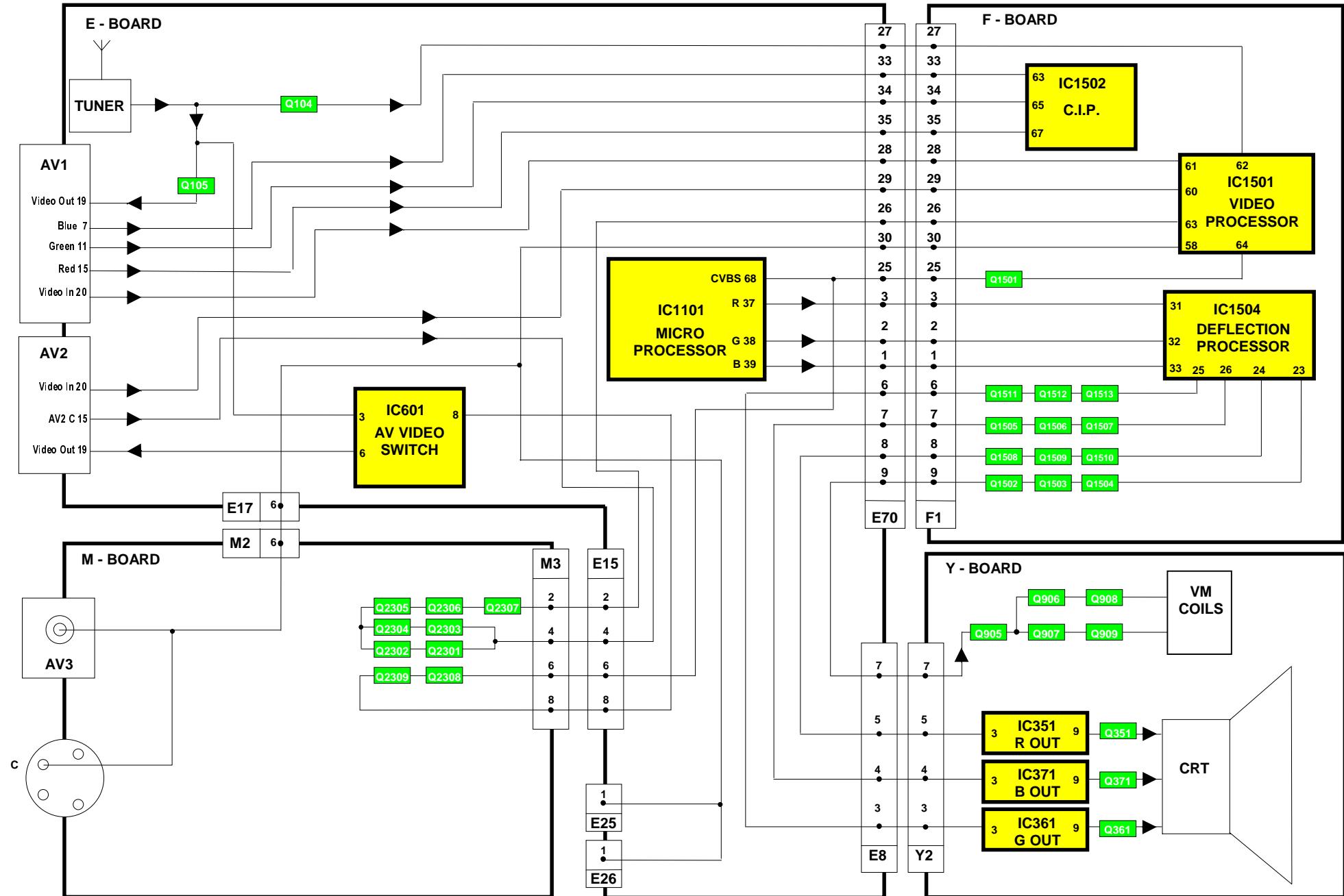
(Les figures ci-dessous sont fictives et utilisées uniquement à des fins représentatives)

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.

| Fonctions | | Réglages/Points particuliers |
|-----------------------|---|--|
| Centrage Horizontal | H-Pos 061 | Optimiser les réglages. |
| V-Pos. | V-Pos 005 | Optimiser les réglages. |
| Amplitude Horizontal | 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 | Pour régler le cutoff mettre un oscilloscope sur la cathode "Bleu" et régler avec les touches "Jaune" et "Bleu". Appuyer sur "STR" et 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. |
| 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. |

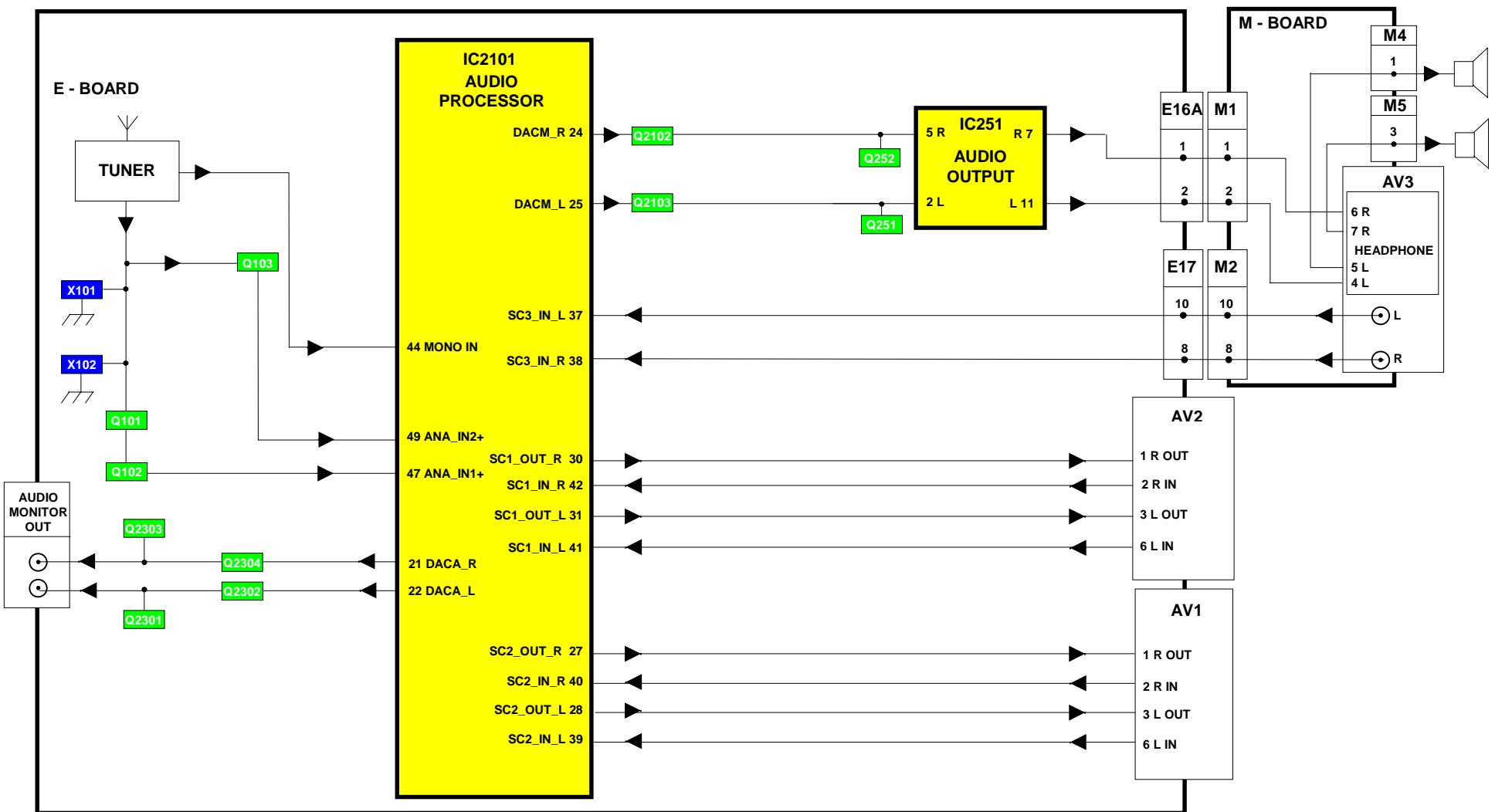
VIDEO BLOCK DIAGRAM

SYNOPTIQUE VIDEO



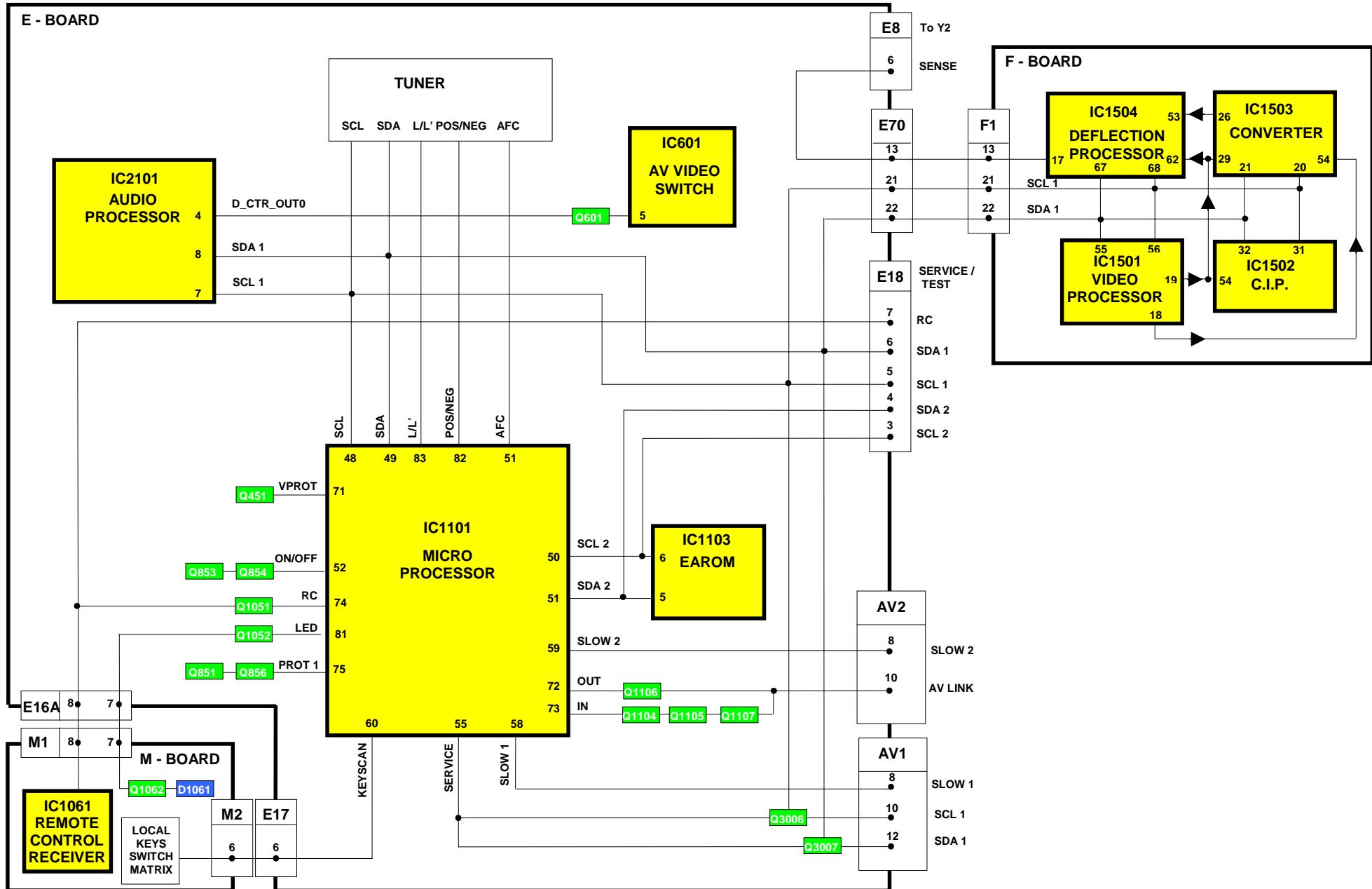
AUDIO BLOCK DIAGRAM

SYNOPTIQUE AUDIO



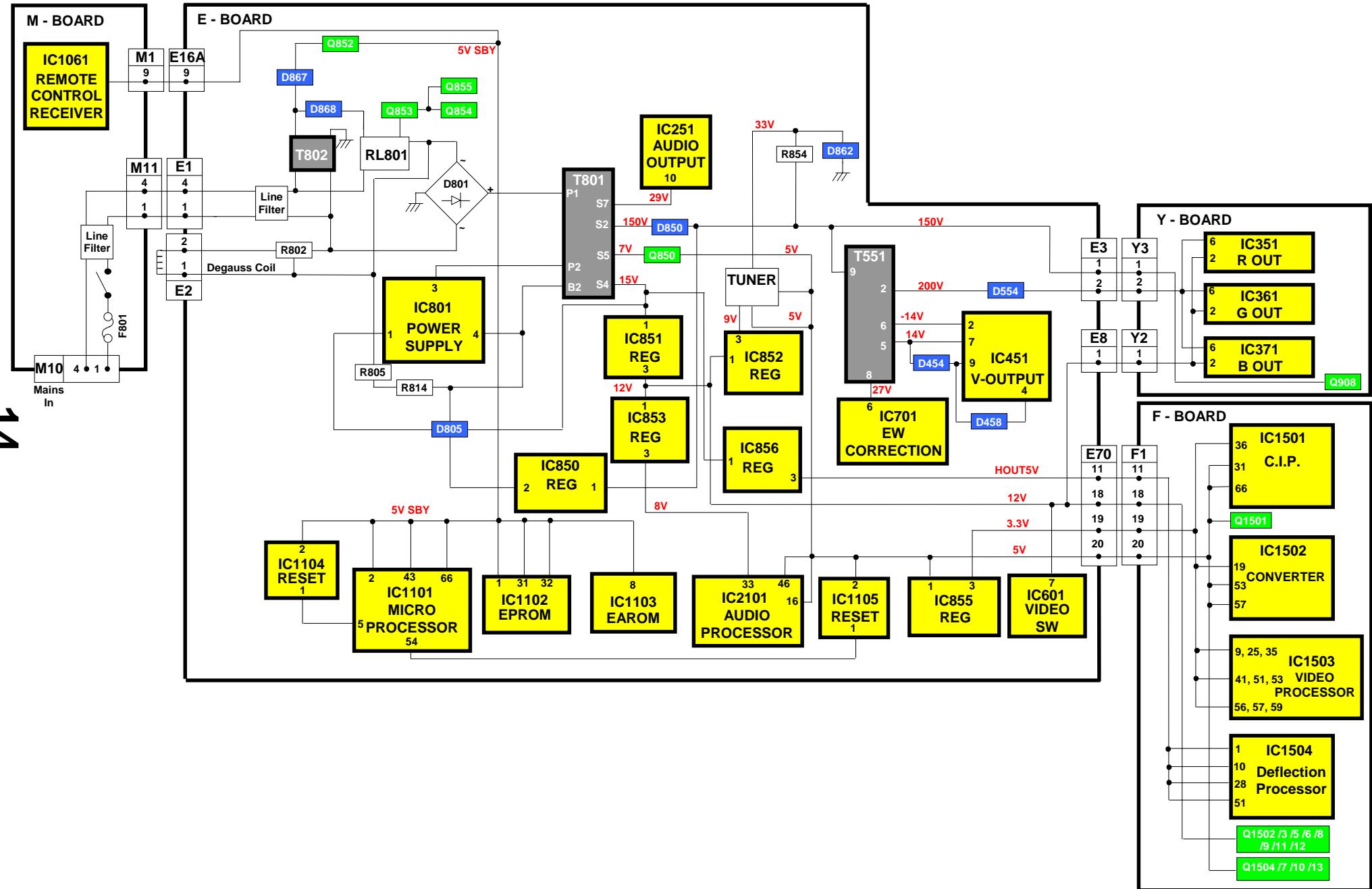
CONTROL BLOCK DIAGRAM

SYNOPTIQUE DE COMMANDE



POWER SUPPLY BLOCK DIAGRAM

SYNOPTIQUE ALIMENTATION



PARTS LOCATION

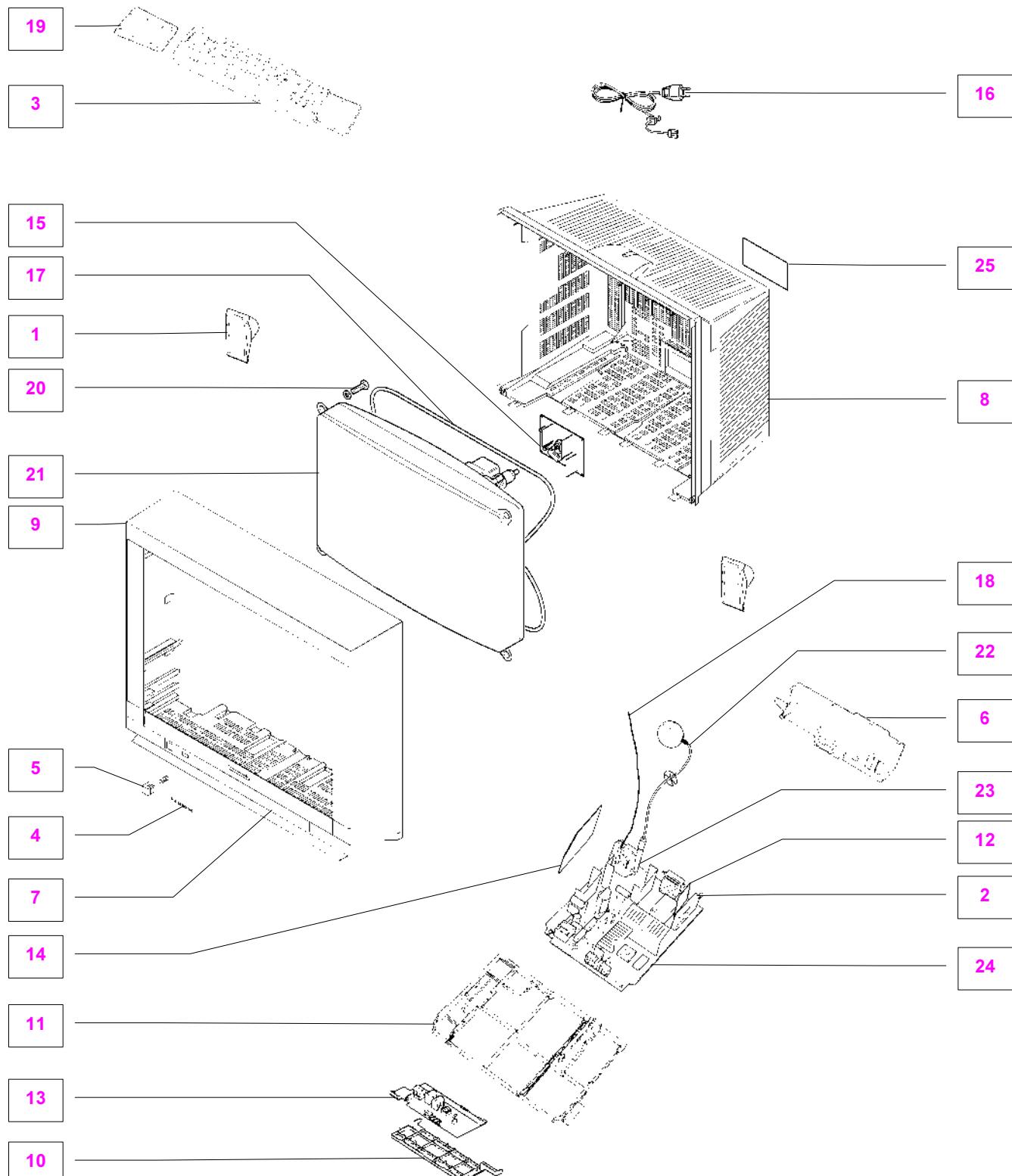
EMPLACEMENT DES PIÈCES

NOTE:

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

REMARQUE

Les numéros des pièces sur la vue éclatée ci-dessous renvoient à la section mécanique 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.

LISTE DES PIÈCES DE RECHANGE

Remarque importante pour la sécurité

Les éléments portant la indication  possètent 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 pieces, veuillez toujours ajouter le numero de modele complet a votre commande

| Cct Ref | Parts Number | Description |
|---------------------------------|--------------|------------------------|
| COMMON PARTS | | |
| MECHANICAL PARTS | | |
| 1 | EASG15S506A2 | SPEAKER |
| 2 | ENG29505GR | TUNER |
| 3 | EUR511211 | REMOTE CONTROL |
| 4 | TBM8E1928 | PANASONIC BADGE |
| 5 | TKP8E1301 | REAR AV PANEL |
| 6 | TKU8E00540 | REAR COVER |
| 7 | TLK8E05123 | DEGAUSS COIL |
| 8 | TMW8E031 | CONTROL BRACKET |
| 9 | TMX8E037 | CHASSIS FRAME |
| 10 | TNP8EF007AB | F P.C.B. |
| 11 | TNP8EM021AL | M PCB |
| 12 | TNP8EP017AF | P PCB |
| 13 | TNP8EY018AD | Y PCB |
| 14 | TSX8E0033 | POWER CORD |
| 15 | TXFJTF01BMTG | FOCUS LEAD ASSY |
| 16 | UR51EC904A | BATTERY COVER (REMOTE) |
| 17 | VP19151 | CRT FIXING SCREW |
| 18 | W76ESF031X44 | C.R.T. |
| 19 | ZTBZAD550A | ANODE CABLE |
| 20 | ZTFM05010A | F.B.T. |
| MISCELLANEOUS COMPONENTS | | |
| DEGC | TLK8E05124 | GEOMAGNETIC COIL |
| FK403 | TMK8E240 | SET FEET |
| IC1101 | PCSZT-084A-1 | IC SOCKET |
| JK381 | 330770054 | TWIN FOCUS |
| PCH2 | TMX8E041 | PCB BRACKET |
| R802 | 232266296706 | THERMISTOR |
| I.C.s | | |
| IC251 | LA4282 | AUDIO OUTPUT |
| IC351 | TDA6111Q-N4 | RGB OUTPUT |
| IC361 | TDA6111Q-N4 | RGB OUTPUT |
| IC371 | TDA6111Q-N4 | RGB OUTPUT |
| IC381 | TL431CLPM | REGULATOR |
| IC451 | LA7876N | VERTICAL OUTPUT |
| IC601 | TEA2114 | VIDEO SWITCHING |
| IC701 | TEA2031A | E/W CORRECTION |
| IC801 | STRF6656LF57 | POWER SUPPLY |
| IC850 | SE140N | ERROR AMPLIFIER |
| IC851 | AN7812LB1 | 12V REGULATOR |
| IC852 | L78M09MRB | 9V REGULATOR |
| IC853 | AN78L08TA | 8V REGULATOR |
| IC855 | BA033T-M3 | REGULATOR |
| IC856 | AN7805LB | 5V REGULATOR |
| IC1061 | RPM-637CBRL | LED RECEIVER |

| Cct Ref | Parts Number | Description |
|---------------|--------------|------------------|
| IC1101 | SDA5450C59 | MICRO PROCESSOR |
| IC1102 | 27C2001-N03 | EPROM* |
| IC1104 | MN1381-R(TA) | RESET |
| IC1105 | MN1381-T(TA) | RESET |
| IC1501 | VPC3215CB8TP | VIDEO PROCESSOR |
| IC1502 | CIP3250APSB1 | C.I.P. |
| IC1503 | SDA9400 | MICRO PROCESSOR |
| IC1504 | DDP3310BPSE4 | VIDEO PROCESSOR |
| IC1900 | LA6515 | EARTH CORRECTION |
| IC2101 | MSP3410DPOC5 | AUDIO PROCESSOR |
| FUSES | | |
| F802-1 | EYF52BC | FUSE HOLDER |
| F802-2 | EYF52BC | FUSE HOLDER |
| F802 | XBA2C50TH15 | FUSE |
| DIODES | | |
| D101 | MA3020TX | DIODE |
| D102 | MA3020TX | DIODE |
| D251 | MA2180BLFS | DIODE |
| D253 | MA700TA5 | DIODE |
| D254 | MA700TA5 | DIODE |
| D351 | ERA15-04V3 | DIODE |
| D352 | ERA15-04V3 | DIODE |
| D361 | ERA15-04V3 | DIODE |
| D362 | ERA15-04V3 | DIODE |
| D371 | ERA15-04V3 | DIODE |
| D372 | ERA15-04V3 | DIODE |
| D376 | MA165TA5 | DIODE |
| D377 | MA165TA5 | DIODE |
| D378 | MA165TA5 | DIODE |
| D387 | MA2160LFS | DIODE |
| D453 | MA165TA5 | DIODE |
| D454 | EU02 | DIODE |
| D456 | MTZJT-777.5B | DIODE |
| D457 | MA165TA5 | DIODE |
| D458 | EU02 | DIODE |
| D501 | MA165TA5 | DIODE |
| D502 | 1SR124-4AT82 | DIODE |
| D511 | MTZJ4.7C | DIODE |
| D553 | 1SR124-4AT82 | DIODE |
| D554 | 1SR124-4AT82 | DIODE |
| D556 | MA165TA5 | DIODE |
| D557 | TVSRU2AMLFA5 | DIODE |
| D558 | EU02 | DIODE |
| D560 | RH3GLF102 | DIODE |
| D580 | FMV-3GULF730 | DIODE |
| D601 | MA165TA5 | DIODE |
| D602 | MA165TA5 | DIODE |
| D603 | MA165TA5 | DIODE |
| D604 | MA165TA5 | DIODE |
| D609 | 1SR124-4AT82 | DIODE |
| D617 | MA3068MTX | DIODE |
| D620 | MA165TA5 | DIODE |

| Cct Ref | Parts Number | Description |
|--------------------|--------------|---------------|
| D701 | MA165TA5 | DIODE |
| D702 | MTZJT-775.1C | DIODE |
| D704 | MA29TA5 | DIODE |
| D705 | MTZJT776.2B | DIODE |
| D706 | MA165TA5 | DIODE |
| D707 | AU02V0 | DIODE |
| D708 | MA165TA5 | DIODE |
| D709 | MTZJT-778.2C | DIODE |
| D710 | MTZJT-7716C | DIODE |
| D801 | RBV-608LF-B | 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 | S3L20U04P15 | DIODE |
| D855 | D10SC6MRL | DIODE |
| D856 | RU4AMLF-M1 | DIODE |
| D857 | MTZJT-775.1A | DIODE |
| D858 | MA165TA5 | DIODE |
| D859 | MA165TA5 | DIODE |
| D860 | MA165TA5 | DIODE |
| D861 | MA165TA5 | DIODE |
| D862 | MTZJT-7736A | DIODE |
| D863 | MA165TA5 | DIODE |
| D864 | 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 |
| D890 | MA165TA5 | DIODE |
| D891 | MA165TA5 | DIODE |
| D901 | 1SS254T-77 | DIODE |
| D902 | 1SS254T-77 | DIODE |
| D903 | 1SS254T-77 | DIODE |
| D907 | MA165TA5 | DIODE |
| D910 | R2KNLFA1 | DIODE |
| D1061 | LN81RPHCF3 | LED |
| D1101 | MA165TA5 | DIODE |
| D1104 | MA165TA5 | DIODE |
| D1105 | MA165TA5 | DIODE |
| D1131 | MTZJT-775.6C | DIODE |
| D2101 | MA723TA5 | DIODE |
| D2102 | MA723TA5 | DIODE |
| D2103 | MA723TA5 | DIODE |
| D2104 | MA723TA5 | DIODE |
| D2105 | MTZJT-778.2C | DIODE |
| D2303 | MA723TA5 | DIODE |
| D2304 | MA723TA5 | DIODE |
| D3201 | MTZJT-778.2C | DIODE |
| D3202 | MTZJT-778.2C | DIODE |
| D3351 | 1SS254T-77 | DIODE |
| D3352 | MA165TA5 | DIODE |
| D3353 | MA165TA5 | DIODE |
| D3354 | MA165TA5 | DIODE |
| TRANSISTORS | | |
| Q101 | BC847B | TRANSISTOR |

| Cct Ref | Parts Number | Description |
|---------|--------------|-------------|
| Q102 | BC847B | TRANSISTOR |
| Q103 | BC847B | TRANSISTOR |
| Q104 | BC847B | TRANSISTOR |
| Q105 | BC847B | TRANSISTOR |
| Q251 | 2SD1328STX | TRANSISTOR |
| Q252 | 2SD1328STX | TRANSISTOR |
| Q253 | BC847B | TRANSISTOR |
| Q254 | BC847B | TRANSISTOR |
| Q351 | 2SA1767 | TRANSISTOR |
| Q361 | 2SA1767 | TRANSISTOR |
| Q371 | 2SA1767 | TRANSISTOR |
| Q451 | BC857B | TRANSISTOR |
| Q503 | 2SK2962TPE6 | TRANSISTOR |
| Q551 | 2SC5144LB228 | TRANSISTOR |
| Q552 | 2SC1473ATA | TRANSISTOR |
| Q601 | BC847B | TRANSISTOR |
| Q701 | BC857B | TRANSISTOR |
| Q702 | BC847B | TRANSISTOR |
| Q703 | IRF644R-M3S | TRANSISTOR |
| Q850 | 2SD2396K-M3 | TRANSISTOR |
| Q851 | BC857B | TRANSISTOR |
| Q852 | 2SD1858TV2 | 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 |
| Q1051 | BC847B | TRANSISTOR |
| Q1062 | BC847B | TRANSISTOR |
| Q1104 | BC847B | TRANSISTOR |
| Q1105 | BC847B | TRANSISTOR |
| Q1106 | BC847B | TRANSISTOR |
| Q1107 | BC847B | TRANSISTOR |
| Q1108 | BC847B | TRANSISTOR |
| Q1501 | BC847B | TRANSISTOR |
| Q1502 | BC857B | TRANSISTOR |
| Q1503 | BC847B | TRANSISTOR |
| Q1504 | BC847B | TRANSISTOR |
| Q1505 | BC857B | TRANSISTOR |
| Q1506 | BC847B | TRANSISTOR |
| Q1507 | BC847B | TRANSISTOR |
| Q1508 | BC857B | TRANSISTOR |
| Q1509 | BC847B | TRANSISTOR |
| Q1510 | BC847B | TRANSISTOR |
| Q1511 | BC857B | TRANSISTOR |
| Q1512 | BC847B | TRANSISTOR |
| Q1513 | BC847B | TRANSISTOR |
| Q1514 | BC847B | TRANSISTOR |
| Q1515 | BC847B | TRANSISTOR |
| Q1900 | BC847B | TRANSISTOR |
| Q2101 | BC857B | TRANSISTOR |
| Q2102 | BC857B | TRANSISTOR |
| Q2103 | BC857B | TRANSISTOR |
| Q2301 | BC847B | TRANSISTOR |
| Q2302 | BC857B | TRANSISTOR |
| Q2303 | BC847B | TRANSISTOR |
| Q2304 | BC857B | TRANSISTOR |
| Q3006 | BC847B | TRANSISTOR |
| Q3007 | BC847B | TRANSISTOR |
| Q3201 | BC847B | TRANSISTOR |
| Q3202 | BC847B | TRANSISTOR |

| Cct Ref | Parts Number | Description |
|---------------------|--------------|-------------|
| Q3203 | BC857B | TRANSISTOR |
| Q3204 | BC857B | TRANSISTOR |
| Q3205 | BC847B | TRANSISTOR |
| Q3206 | BC847B | TRANSISTOR |
| Q3207 | BC847B | TRANSISTOR |
| Q3208 | BC847B | TRANSISTOR |
| Q3209 | BC847B | TRANSISTOR |
| Q3352 | BC857B | TRANSISTOR |
| TRANSFORMERS | | |
| T501 | ETH19Y193AY | TRANSFORMER |
| T801 | ETS42AE2G6AD | TRANSFORMER |
| T802 | ETP35KAN619U | TRANSFORMER |
| COILS | | |
| J26 | EXCELDR35V | COIL |
| J212 | EXCELSA35V | COIL |
| L101 | TLT100K991R | COIL |
| L102 | TLT068K991R | COIL |
| L103 | EXCELSA35B | COIL |
| L104 | TLTACT4R7K | COIL |
| L105 | TLTACTR47K | COIL |
| L106 | TLTACT100K | COIL |
| L107 | TLTACT6R8K | COIL |
| L114 | ELJFC2R2KF | COIL |
| L115 | ELJFC2R2KF | COIL |
| L301 | TLTACT4R7K | COIL |
| L353 | TLT150K991R | COIL |
| L363 | TLT100K991R | COIL |
| L373 | TLT150K991R | COIL |
| L381 | TLT220K991R | COIL |
| L382 | ELESN6R8KA | COIL |
| L451 | EXCELSA35T | COIL |
| L501 | EXCELSA35T | COIL |
| L581 | ELHKL040B | COIL |
| L582 | ELC18B221L | COIL |
| L584 | ELHKL041B | COIL |
| L586 | EXCELDR35C | COIL |
| L606 | ELESN100KA | COIL |
| L701 | ELC18B271E | COIL |
| L704 | ELC10D332E | COIL |
| L705 | EXCELDR35V | COIL |
| L850 | EXCELSA35T | COIL |
| L851 | EXCELSA35T | COIL |
| L852 | ELEIE470KA | COIL |
| L855 | EXCELSA35T | COIL |
| L856 | EXCELSA39V | COIL |
| L910 | EXCELSA35T | COIL |
| L911 | EXCELSA35T | COIL |
| L912 | EXCELSA35T | COIL |
| L1061 | TLT331K991R | COIL |
| L1103 | TLTACT100K | COIL |
| L1104 | EXCELSA35T | COIL |
| L1105 | ELJFC2R2KF | COIL |
| L1501 | ELESN2R2KA | COIL |
| L1502 | ELESN2R2KA | COIL |
| L1503 | ELESN2R2KA | COIL |
| L1504 | ELESN2R2KA | COIL |
| L1505 | ELESN100KA | COIL |
| L1506 | ELESN100KA | COIL |
| L1507 | ELESNR22KA | COIL |
| L1508 | ELESNR22KA | COIL |
| L1509 | ELESN100KA | COIL |
| L1510 | ELESN100KA | COIL |
| L1514 | ELESN100KA | COIL |
| L1515 | ELESNR39KA | COIL |
| L1516 | ELESN4R7KA | COIL |
| L1517 | ELESN4R7KA | COIL |

| Cct Ref | Parts Number | Description |
|------------------|--------------|----------------|
| L1518 | ELESN4R7KA | COIL |
| L1519 | ELESNR39KA | COIL |
| L1520 | ELESN2R2KA | COIL |
| L1521 | ELESN1R0KA | COIL |
| L1522 | ELESN2R2KA | COIL |
| L1523 | ELESN2R2KA | COIL |
| L1524 | ELESN2R2KA | COIL |
| L1525 | ELESN100KA | COIL |
| L1526 | ELESN100KA | COIL |
| L1527 | ELESN100KA | COIL |
| L1528 | ELESN100KA | COIL |
| L1529 | ELESN100KA | COIL |
| L1900 | EXCELDR25V | COIL |
| L2101 | TLTACT100K | COIL |
| L2103 | EXCELSA35T | COIL |
| L2104 | TLTACT4R7K | COIL |
| L3001 | ELEMV1R5MA | COIL |
| L3002 | ELEMV1R5MA | COIL |
| L3003 | ELEMV1R5MA | COIL |
| L3004 | ELEMV1R5MA | COIL |
| L3201 | ELEBR6R8KA | COIL |
| L3202 | ELEBR6R8KA | COIL |
| L3204 | TLT331K991R | COIL |
| FILTERS | | |
| L804 | ELF18N012A | LINE FILTER |
| L1901 | ELF18N012A | LINE FILTER |
| X101 | EFCT6504BF | FILTER |
| X102 | EFCT7004BF | CERAMIC FILTER |
| CRYSTALS | | |
| X1101 | TSSA121 | CRYSTAL |
| X1501 | 4730007267 | CRYSTAL |
| X1502 | 4730007341 | CRYSTAL |
| X2101 | 4730007158 | CRYSTAL |
| RESISTORS | | |
| C510 | ERJ6GEY0R00 | S.M.CARB |
| JA1 | ERJ6GEY0R00 | S.M.CARB |
| JA2 | ERJ6GEY0R00 | S.M.CARB |
| JA3 | ERJ6GEY0R00 | S.M.CARB |
| JA4 | ERJ6GEY0R00 | S.M.CARB |
| JA5 | ERJ6GEY0R00 | S.M.CARB |
| JA6 | ERJ6GEY0R00 | S.M.CARB |
| JA7 | ERJ6GEY0R00 | S.M.CARB |
| JA8 | ERJ6GEY0R00 | S.M.CARB |
| JA9 | ERJ6GEY0R00 | S.M.CARB |
| JA10 | ERJ6GEY0R00 | S.M.CARB |
| JA12 | ERJ6GEY0R00 | S.M.CARB |
| JA13 | ERJ6GEY0R00 | S.M.CARB |
| JA14 | ERJ6GEY0R00 | S.M.CARB |
| JA15 | ERJ6GEY0R00 | S.M.CARB |
| JA16 | ERJ6GEY0R00 | S.M.CARB |
| JA17 | ERJ6GEY0R00 | S.M.CARB |
| JA18 | ERJ6GEY0R00 | S.M.CARB |
| JA19 | ERJ6GEY0R00 | S.M.CARB |
| JA20 | ERJ6GEY0R00 | S.M.CARB |
| JA101 | ERJ8GEY0R00 | S.M.CARB |
| JA102 | ERJ8GEY0R00 | S.M.CARB |
| JA103 | ERJ8GEY0R00 | S.M.CARB |
| JA104 | ERJ8GEY0R00 | S.M.CARB |
| JA105 | ERJ8GEY0R00 | S.M.CARB |
| JA106 | ERJ8GEY0R00 | S.M.CARB |
| JA107 | ERJ8GEY0R00 | S.M.CARB |
| JA108 | ERJ8GEY0R00 | S.M.CARB |
| JA109 | ERJ8GEY0R00 | S.M.CARB |
| JA110 | ERJ8GEY0R00 | S.M.CARB |
| JA111 | ERJ8GEY0R00 | S.M.CARB |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-----|---------|
| JA112 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA113 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA114 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA115 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA116 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA117 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA118 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA119 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA200 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA201 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA202 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE3 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE4 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE10 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE12 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE13 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE18 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE26 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE33 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE35 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE42 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE43 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE48 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSE49 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSF1 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSF2 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSF3 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSM7 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSM8 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSM10 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSY04 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R101 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω |
| R102 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R103 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R104 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω |
| R105 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R106 | ERJ6GEYJ680 | S.M.CARB | 0.1W | 5% | 68 Ω |
| R107 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R108 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R109 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R110 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R111 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω |
| R112 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R113 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R116 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5K6 Ω |
| R117 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R118 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R121 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R251 | ERJ6GEYJ151 | S.M.CARB | 0.1W | 5% | 150 Ω |
| R252 | ERJ6GEYJ392 | S.M.CARB | 0.1W | 5% | 3K9 Ω |
| R253 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R254 | ERJ6GEYJ151 | S.M.CARB | 0.1W | 5% | 150 Ω |
| R255 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R256 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R257 | ERJ6GEYJ470 | S.M.CARB | 0.1W | 5% | 47 Ω |
| R258 | ERJ6GEYJ392 | S.M.CARB | 0.1W | 5% | 3K9 Ω |
| R259 | ERJ6GEYJ470 | S.M.CARB | 0.1W | 5% | 47 Ω |
| R260 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R261 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R262 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R263 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω |
| R264 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R265 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω |
| R266 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω |
| R267 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω ▲ |
| R268 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-----|---------|
| R269 | ERQ14AJ101 | METAL | 0.25W | 5% | 100 Ω ▲ |
| R271 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R272 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω ▲ |
| R350 | ERQ12AJ151P | FUSIBLE | 0.5W | 5% | 150 Ω ▲ |
| R352 | ERJ6GEYJ202 | S.M.CARB | 0.1W | 5% | 2K Ω |
| R355 | ERG1ANJP683H | METAL | 0.5W | 5% | 68K Ω |
| R356 | ERJ6GEYJ181 | S.M.CARB | 0.1W | 5% | 180 Ω |
| R357 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R358 | ERDS1TJ821 | CARBON | 0.5W | 5% | 820 Ω |
| R360 | ERO50PKF8251 | METAL | 0.5W | 5% | 8M2 Ω ▲ |
| R362 | ERJ6GEYJ202 | S.M.CARB | 0.1W | 5% | 2K Ω |
| R365 | ERG1ANJP683H | METAL | 0.5W | 5% | 68K Ω |
| R366 | ERJ6GEYJ181 | S.M.CARB | 0.1W | 5% | 180 Ω |
| R367 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R368 | ERDS1TJ821 | CARBON | 0.5W | 5% | 820 Ω |
| R372 | ERJ6GEYJ202 | S.M.CARB | 0.1W | 5% | 2K Ω |
| R375 | ERG1ANJP683H | METAL | 0.5W | 5% | 68K Ω |
| R376 | ERJ6GEYJ181 | S.M.CARB | 0.1W | 5% | 180 Ω |
| R377 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R378 | ERDS1TJ821 | CARBON | 0.5W | 5% | 820 Ω |
| R382 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R383 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R385 | ERQ12HJ1R2 | METAL | 0.5W | 5% | 1R2 Ω ▲ |
| R394 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R396 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R398 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R451 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R452 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R453 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R454 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω |
| R455 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R456 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R457 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R458 | ERDS1TJ1R0 | CARBON | 0.5W | 5% | 1 Ω |
| R459 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R460 | ERG3SJS120 | METAL | 3W | 5% | 12 Ω ▲ |
| R461 | ERX2SJS1R8 | METAL | 2W | 5% | 1R8 Ω |
| R463 | ERDS2TJ222T | CARBON | 0.5W | 5% | 2K2 Ω |
| R464 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R465 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R467 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R502 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R503 | ERJ6GEYJ105 | S.M.CARB | 0.1W | 5% | 1M Ω |
| R507 | ERX3SJ4R7H | METAL | 3W | 5% | 4R7 Ω |
| R509 | ERG1SJ222E | METAL | 0.5W | 5% | 2K2 Ω |
| R510 | ERG1SJ222E | METAL | 0.5W | 5% | 2K2 Ω |
| R551 | ERX3SJSR22 | METAL | 3W | 5% | R22 Ω ▲ |
| R555 | ERQ12HKR82 | FUSIBLE | 0.5W | 10% | R82 Ω ▲ |
| R558 | ERDS1TJ124 | CARBON | 0.5W | 5% | 120K Ω |
| R559 | ERQ12HKR82 | FUSIBLE | 0.5W | 10% | R82 Ω ▲ |
| R560 | ERJ6GEYJ274 | S.M.CARB | 0.1W | 5% | 270K Ω |
| R561 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R563 | ERJ6GEYJ155 | S.M.CARB | 0.1W | 5% | 1M5 Ω |
| R564 | ERJ6GEYJ333 | S.M.CARB | 0.1W | 5% | 33K Ω |
| R566 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω |
| R567 | ERF7ZK1R0 | WOUND | 7W | 10% | 1 Ω ▲ |
| R568 | ERDS1TJ120 | CARBON | 0.5W | 5% | 12 Ω |
| R581 | ERQ2CJP821 | METAL | 2W | 5% | 820 Ω ▲ |
| R583 | ERG3FJ331 | METAL | 3W | 5% | 330 Ω ▲ |
| R603 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R604 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R605 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R606 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R607 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R608 | ERJ6GEYJ201 | S.M.CARB | 0.1W | 5% | 200 Ω |
| R609 | ERJ6GEYJ201 | S.M.CARB | 0.1W | 5% | 200 Ω |

| Cct Ref | Parts Number | Description | | | | | |
|---------|--------------|-------------|-------|-----|---------|--|--|
| R610 | ERJ6GEYJ242 | S.M.CARB | 0.1W | 5% | 2K4 Ω | | |
| R611 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | | |
| R612 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R620 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R622 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R647 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R648 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω | | |
| R650 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | | |
| R701 | ERQ12AJ330P | METAL | 0.5W | 5% | 330 Ω ▲ | | |
| R702 | ERX2SJ2R7 | FUSIBLE | 2W | 5% | 2R7 Ω | | |
| R703 | ERG2FJ821 | METAL | 2W | 5% | 820 Ω ▲ | | |
| R704 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω | | |
| R705 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | | |
| R706 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R707 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | | |
| R708 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω | | |
| R709 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω | | |
| R710 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | | |
| R711 | ERG1SJ101 | METAL | 1W | 5% | 100 Ω | | |
| R712 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | | |
| R714 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | | |
| R715 | ERD25TJ272F | CARBON | 0.25W | 5% | 2K7 Ω | | |
| R716 | ERQ12AJ680P | METAL | 0.5W | 5% | 68 Ω ▲ | | |
| R718 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | | |
| R719 | ERJ6GEYJ224 | S.M.CARB | 0.1W | 5% | 220K Ω | | |
| R720 | ERJ6GEYJ105 | S.M.CARB | 0.1W | 5% | 1M Ω | | |
| R721 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω | | |
| R805 | ERD25TJ473 | CARBON | 0.25W | 5% | 47K Ω | | |
| R806 | ERD25TJ100 | CARBON | 0.25W | 5% | 10 Ω | | |
| R807 | ERD25TJ332 | CARBON | 0.25W | 5% | 3K3 Ω | | |
| R809 | ERD25TJ681 | CARBON | 0.25W | 5% | 680 Ω | | |
| R810 | ERW2PKR22 | WOUND | 2W | 5% | 22 Ω | | |
| R811 | ERW2PKR22 | WOUND | 2W | 5% | 22 Ω | | |
| R812 | ERD75TAJ825 | CARBON | 0.75W | 5% | 8M2 Ω ▲ | | |
| R813 | ERF7ZK2R7 | WOUND | 7W | 20% | 2R7 Ω ▲ | | |
| R814 | ERD25TJ473 | CARBON | 0.25W | 5% | 47K Ω | | |
| R815 | ERD25TJ222 | CARBON | 0.25W | 5% | 2K2 Ω | | |
| R850 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2 Ω | | |
| R852 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R853 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | | |
| R854 | ERG2FJ223 | METAL | 2W | 5% | 22K Ω ▲ | | |
| R855 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | | |
| R856 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | | |
| R857 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | | |
| R858 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | | |
| R859 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 75K Ω | | |
| R861 | ERDS2TJ221T | CARBON | 0.5W | 5% | 220 Ω | | |
| R862 | ERD25TJ272F | CARBON | 0.25W | 5% | 2K7 Ω | | |
| R863 | ERDS1TJ560 | CARBON | 0.5W | 5% | 56 Ω | | |
| R864 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω | | |
| R865 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R867 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R868 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | | |
| R869 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R870 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω | | |
| R871 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | | |
| R872 | ERG1SJ183 | METAL | 1W | 5% | 18K Ω | | |
| R873 | ERG1SJ223 | METAL | 1W | 5% | 22K Ω | | |
| R874 | ERDS2TJ104T | CARBON | 2W | 5% | 100K Ω | | |
| R876 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R877 | ERW2PKR47 | WOUND | 2W | 10% | R47 Ω ▲ | | |
| R878 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | | |
| R879 | ERG3FJ680H | METAL | 3W | 5% | 68 Ω ▲ | | |
| R880 | ERG5FJ120H | METAL | 5W | 5% | 12 Ω ▲ | | |
| R882 | ERG2FJ330H | METAL | 2W | 5% | 33 Ω ▲ | | |
| R890 | ERX1FJ3R9P | FUSIBLE | 1W | 5% | 3R9 Ω ▲ | | |

| Cct Ref | Parts Number | Description | | | | | |
|---------|--------------|-------------|-------|----|---------|--|--|
| R913 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω | | |
| R914 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω | | |
| R915 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω | | |
| R916 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω | | |
| R917 | ERJ6GEYJ121 | S.M.CARB | 0.1W | 5% | 120 Ω | | |
| R918 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R919 | ERQ14AJW390 | FUSIBLE | 0.25W | 5% | 39 Ω ▲ | | |
| R920 | ERQ14AJW390 | FUSIBLE | 0.25W | 5% | 39 Ω ▲ | | |
| R922 | ERDS2TJ683T | CARBON | 2W | 5% | 68K Ω | | |
| R923 | ERDS2TJ683T | CARBON | 2W | 5% | 68K Ω | | |
| R924 | ERDS1FYJ390 | CARBON | 0.5W | 5% | 39 Ω ▲ | | |
| R925 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R926 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R927 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2 Ω | | |
| R928 | ERD25TJ5R6 | CARBON | 0.25W | 5% | 5R6 Ω | | |
| R929 | ERDS1FYJ471 | RESISTOR | 0.5W | 5% | 470 Ω ▲ | | |
| R931 | ERDS1FYJ390 | CARBON | 0.5W | 5% | 39 Ω ▲ | | |
| R935 | ERQ14AJW3R9 | FUSIBLE | 0.25W | 5% | 3R9 Ω ▲ | | |
| R936 | ERQ1CJP102 | FUSIBLE | 1W | 5% | 1K Ω ▲ | | |
| R937 | ERQ14AJW100 | FUSIBLE | 0.25W | 5% | 10 Ω ▲ | | |
| R938 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2 Ω | | |
| R941 | ERD25TJ5R6 | CARBON | 0.25W | 5% | 5R6 Ω | | |
| R1051 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | | |
| R1062 | ERJ6GEYJ271 | S.M.CARB | 0.1W | 5% | 270 Ω | | |
| R1063 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R1101 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1102 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | | |
| R1103 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | | |
| R1104 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | | |
| R1105 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1106 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | | |
| R1107 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | | |
| R1108 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | | |
| R1109 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | | |
| R1110 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | | |
| R1111 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R1112 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | | |
| R1113 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1114 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1115 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | | |
| R1116 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1117 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1118 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | | |
| R1119 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | | |
| R1120 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1121 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1123 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1124 | ERJ6GEYJ1R0 | S.M.CARB | 0.1W | 5% | 1 Ω | | |
| R1125 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | | |
| R1126 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1127 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1128 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | | |
| R1129 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | | |
| R1130 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R1131 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | | |
| R1132 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1133 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω | | |
| R1136 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | | |
| R1137 | ERJ6GEYJ0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | | |
| R1138 | ERJ6GEYJ105 | S.M.CARB | 0.1W | 5% | 1M Ω | | |
| R1139 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | | |
| R1140 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | | |
| R1141 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | | |
| R1142 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | | |
| R1145 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |
| R1146 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | | |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|------|----|--------|--|
| R1147 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1148 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1149 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R1151 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1152 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1154 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1155 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1156 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| 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 | |
| R1163 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1164 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1165 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1166 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 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 | |
| R1178 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1251 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R1252 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R1253 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω | |
| R1254 | ERJ6GEYJ512 | S.M.CARB | 0.1W | 5% | 5K1 Ω | |
| R1255 | ERJ6GEYJ912 | S.M.CARB | 0.1W | 5% | 9K1 Ω | |
| R1501 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1502 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1504 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1505 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1506 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1507 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1508 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1509 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1510 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1511 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1512 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R1513 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1514 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1515 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R1517 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1521 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1522 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R1523 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R1524 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1525 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1526 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R1527 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω | |
| R1528 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1529 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω | |
| R1530 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1531 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1532 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R1533 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω | |
| R1534 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1535 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1536 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω | |
| R1537 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | |
| R1538 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R1539 | ERJ6GEYJ271 | S.M.CARB | 0.1W | 5% | 270 Ω | |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|------|-----|-------|---|
| R1540 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | |
| R1541 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1542 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1543 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1544 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1545 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1546 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1547 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1548 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1549 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1550 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1551 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1552 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1553 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1554 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1555 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1556 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1557 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1558 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1559 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1560 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1561 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1562 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1563 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1564 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1565 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1566 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1567 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1568 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1569 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1570 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1571 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1572 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1573 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1574 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | |
| R1575 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1577 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1578 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1579 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1580 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1584 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1585 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1586 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1587 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω | |
| R1588 | ERJ6GEYJ511 | S.M.CARB | 0.1W | 5% | 510 Ω | |
| R1589 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω | |
| R1900 | ERQ12HJ150 | FUSIBLE | 0.1W | 5% | 15 Ω | ▲ |
| R1901 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R1902 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω | |
| R1903 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R1904 | ERDS1TJ2R2 | CARBON | 0.5W | 5% | 2R2 Ω | |
| R1905 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 75K Ω | |
| R1906 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 75K Ω | |
| R1907 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 75K Ω | |
| R1908 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1909 | ERDS1TJ2R2 | CARBON | 0.5W | 5% | 2R2 Ω | |
| R1910 | ERDS1TJ8R2 | CARBON | 0.5W | 5% | 8R2 Ω | |
| R1911 | ERDS1TJ8R2 | CARBON | 0.5W | 5% | 8R2 Ω | |
| R1912 | ERC12ZGK335D | SOLID | 0.5W | 10% | 3M3 Ω | |
| R1913 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1914 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 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 | |
| R2109 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω | |
| R2110 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|----|--|
| 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 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R2116 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2117 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2118 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 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 |
| 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 |
| R3010 | ERD25TJ750 | CARBON | 0.25W | 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 |
| 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 |
| R3201 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R3202 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω |
| R3203 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω |
| R3204 | ERG2FJ221 | METAL | 2W | 5% | 220 Ω ▲ |
| R3205 | ERG2FJ221 | METAL | 2W | 5% | 220 Ω ▲ |
| R3207 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3208 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3209 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3210 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3211 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3212 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3213 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3214 | ERJ6GEYJ683 | S.M.CARB | 0.1W | 5% | 68K Ω |
| R3215 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3216 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R3217 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3218 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3219 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3220 | ERJ6GEYJ683 | S.M.CARB | 0.1W | 5% | 68K Ω |
| R3221 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3222 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R3223 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |

| Cct Ref | Parts Number | Description | | | |
|-------------------|--------------|-------------|------|--------|---|
| R3224 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3225 | ERJ6GEYJ683 | S.M.CARB | 0.1W | 5% | 68K Ω |
| R3226 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3227 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3228 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω |
| R3229 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3230 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | 3K Ω |
| R3231 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R3232 | ERJ6GEYJ242 | S.M.CARB | 0.1W | 5% | 2K4 Ω |
| R3233 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R3234 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3354 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3355 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R3356 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3357 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3358 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3360 | ERDS1TJ471 | CARBON | 0.5W | 5% | 470 Ω |
| R3361 | ERO50PKF1133 | METAL | 0.5W | 5% | 110K Ω ▲ |
| R3362 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3363 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3364 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K 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 |
| R3614 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| CAPACITORS | | | | | |
| C101 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C102 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C103 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C105 | ECUV1H560JCX | S.M. CAP | 50V | 56pF | |
| C106 | ECUV1H560JCX | S.M. CAP | 50V | 56pF | |
| C107 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C109 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C110 | ECUV1H103ZFX | S.M. CAP | 50V | 10nF | |
| C114 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C115 | ECUV1H103ZFX | S.M. CAP | 50V | 10nF | |
| C117 | ECUV1H103ZFX | S.M. CAP | 50V | 10nF | |
| C118 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C121 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C124 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C125 | ECUV1H100DCX | S.M. CAP | 50V | 10pF | |
| C133 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C134 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C135 | ECUV1H104KBW | S.M. CAP | 50V | 100nF | |
| C136 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C138 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C251 | ECA1HM220GB | ELECT | 50V | 22μF | |
| C252 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C256 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C258 | ECA1HM220GB | ELECT | 50V | 22μF | |
| C260 | ECA1VM102GB | ELECT | 35V | 1nF | |
| C261 | ECA1VM102GB | ELECT | 35V | 1nF | |
| C264 | ECA1HHG222E | ELECT | 50V | 2200μF | |
| C267 | ECJ2VB1H104K | ELECT | 350V | 100nF | |
| C268 | ECJ2VB1H104K | ELECT | 350V | 100nF | |
| C270 | ECJ2VB1H104K | ELECT | 350V | 100nF | |
| C350 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C352 | ECUV1H224ZFX | S.M. CAP | 50V | 220nF | |
| C353 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C354 | ECQM2104KZ | FILM | 250V | 100nF | |
| C355 | ECKC2H102J | CERAMIC | 500V | 1nF | ▲ |
| C358 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C360 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C362 | ECUV1H224ZFX | S.M. CAP | 50V | 220nF | |
| C363 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C364 | ECQM2104KZ | FILM | 250V | 100nF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|--------|---|
| C365 | ECKC2H102J | CERAMIC | 500V | 1nF | ⚠ |
| C368 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C369 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C370 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C372 | ECUV1H224ZFX | S.M. CAP | 50V | 220nF | |
| C373 | ECUV1H104KBX | S.M. CAP | 50V | 100nF | |
| C374 | ECQM2104KZ | FILM | 250V | 100nF | |
| C375 | ECKC2H102J | CERAMIC | 500V | 1nF | ⚠ |
| C378 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C381 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C383 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C384 | ECQM2104KZ | FILM | 250V | 100nF | |
| C385 | ECA2EM220B | ELECT | 250V | 22µF | |
| C386 | ECKC3D152J | CERAMIC | 2KV | 1.5nF | ⚠ |
| C451 | ECUV1H102JX | S.M. CAP | 50V | 1nF | |
| C453 | ECUV1H152KBX | S.M. CAP | 50V | 1.5pF | |
| C454 | ECQV1H105JZ | FILM | 50V | 1µF | |
| C456 | ECA1HG221B | ELECT | 50V | 220µF | |
| C459 | ECQB1224KFW | FILM | 100V | 220nF | |
| C463 | ECEA1HU221 | ELECT | 50V | 220µF | |
| C508 | ECQB1H103J | FILM | 50V | 10nF | |
| C509 | ECA1VM470B | ELECT | 35V | 47µF | |
| C551 | ECKC3D681J | CERAMIC | 2KV | 680pF | ⚠ |
| C552 | ECWH15H102JN | FILM | 1500V | 1nF | |
| C557 | ECKC2H471J | CERAMIC | 500V | 470pF | ⚠ |
| C558 | ECA1HG471E | ELECT | 50V | 470µF | |
| C561 | ECA1EHG102B | ELECT | 25V | 1000µF | |
| C562 | ECKC2H101J | CERAMIC | 500V | 100pF | ⚠ |
| C563 | ECA2EHG220B | ELECT | 250V | 20µF | |
| C564 | ECEA2AU2R2 | ELECT | 100V | 2.2µF | |
| C565 | ECQP1H273J | FILM | 100V | 2700µF | |
| C566 | ECKC2H471J | CERAMIC | 500V | 470pF | ⚠ |
| C567 | ECA1EHG102B | ELECT | 25V | 1000µF | |
| C568 | ECKC2H471J | CERAMIC | 500V | 470pF | ⚠ |
| C569 | ECKC2H102J | CERAMIC | 500V | 1nF | ⚠ |
| C581 | ECWF4105JBB | FILM | 400V | 1µF | |
| C582 | ECWF4564JBB | FILM | 400V | 560nF | |
| C583 | ECWH20562JVB | FILM | 200V | 5.6nF | |
| C584 | ECWH20562JVB | FILM | 200V | 5.6nF | |
| C586 | ECQF4153JZH | FILM | 400V | 1.5nF | ⚠ |
| C587 | ECQM4223KC | FILM | 400V | 220nF | |
| C608 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C609 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C623 | ECUV1H121JCX | S.M. CAP | 50V | 120pF | |
| C624 | ECUV1H121JCX | S.M. CAP | 50V | 120pF | |
| C626 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C627 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C701 | ECA1HG101B | ELECT | 50V | 100µF | |
| C702 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C703 | ECEA1HGE100 | ELECT | 50V | 10µF | |
| C704 | ECUV1H223KBX | S.M. CAP | 50V | 22nF | |
| C709 | ECQV1H105JZ | FILM | 50V | 1µF | |
| C804 | 222233510224 | FILM | 250V | 220nF | |
| 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 | ECOS2GA221CA | ELECT | 400V | 220µF | |
| C814 | ECKC3D102J | CERAMIC | 2KV | 1nF | ⚠ |
| C815 | ECKC1H471J | CERAMIC | 50V | 470pF | |
| C817 | ECQE6104K | FILM | 600V | 100nF | ⚠ |
| C818 | ECKCNS332J | CERAMIC | 1.2KV | 3.3nF | ⚠ |
| C820 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C839 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C840 | ECJ2YB1H104K | ELECT | 350V | 100nF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|--------|---|
| C841 | ECA1AM222B | ELECT | 10V | 2200µF | |
| C842 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C850 | ECKC3D471JB | CERAMIC | 2KV | 470pF | ⚠ |
| C851 | ECA2CHG221E | ELECT | 160V | 220µF | |
| C853 | ECKC2H471J | CERAMIC | 500V | 470pF | ⚠ |
| C854 | ECA1EM102GB | ELECT | 25V | 100µF | |
| C855 | ECKC2H471J | CERAMIC | 500V | 470pF | ⚠ |
| C856 | ECA1AHG332B | ELECT | 10V | 3.3nF | |
| C857 | ECKC2H471J | CERAMIC | 500V | 470pF | ⚠ |
| C858 | ECEA1HGE102 | ELECT | 50V | 1000µF | |
| C859 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C860 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C862 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C863 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C864 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C865 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C866 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C867 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C868 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C870 | ECA1EM471GB | ELECT | 25V | 470µF | |
| C871 | ECEA1CU332 | ELECT | 16V | 3300µF | |
| C873 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C875 | ECA2CM4R7B | ELECT | 160V | 10µF | |
| C876 | ECA1HHG101B | ELECT | 50V | 100µF | |
| C902 | ECA1VM101GB | ELECT | 35V | 100µF | |
| C904 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C907 | ECUV1H331JCX | S.M. CAP | 50V | 330pF | |
| C909 | ECKC2H472J | CERAMIC | 500V | 4.7nF | ⚠ |
| C910 | ECKC2H472J | CERAMIC | 500V | 4.7nF | ⚠ |
| C912 | ECA2EM220B | ELECT | 250V | 22µF | |
| C913 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C914 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C916 | ECA2EM220B | ELECT | 250V | 22µF | |
| C918 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C919 | ECCR2H270J | CERAMIC | 500V | 27pF | |
| C1061 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1062 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C1063 | ECUV1H331JCX | S.M. CAP | 50V | 330pF | |
| C1101 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1103 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C1104 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C1105 | ECUV1H101JCX | S.M. CAP | 50V | 100pF | |
| C1106 | ECKC2H681J | CERAMIC | 500V | 680pF | ⚠ |
| C1108 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1111 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C1112 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1115 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C1116 | ECUV1H472KBX | S.M. CAP | 50V | 4.7nF | |
| C1117 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1118 | ECUV1H103KBX | 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 | ECUV1H471JCX | S.M. CAP | 50V | 470pF | |
| C1124 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1125 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1126 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1127 | ECUV1H561JCX | S.M. CAP | 50V | 560pF | |
| C1129 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1501 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1502 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1503 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1504 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1505 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1506 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1507 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|------|-------|--|
| C1508 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1513 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C1514 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1515 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1516 | ECEA1CKA101 | ELECT | 16V | 100µF | |
| C1517 | ECJ2YB1H473K | ELECT | 350V | 47nF | |
| C1518 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1519 | ECUV1H050CCX | S.M. CAP | 50V | 50pF | |
| C1520 | ECUV1H050CCX | S.M. CAP | 50V | 50pF | |
| C1521 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1522 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1523 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1524 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1525 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1526 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1527 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1528 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1529 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1530 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1531 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1532 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1540 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C1541 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1542 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1543 | ECJ2VB1C224K | ELECT | 350V | 220nF | |
| C1544 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1545 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1546 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1547 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1548 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1549 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1550 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1551 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1552 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1553 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1554 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1555 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1556 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1557 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1558 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1559 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1560 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1561 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1562 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1563 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1564 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1566 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1567 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1568 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1569 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1570 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1571 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1572 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1573 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1574 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1575 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1576 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1577 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1578 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1579 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1580 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1581 | ECJ2VB1C224K | ELECT | 350V | 220nF | |
| C1582 | ECJ2VB1C224K | ELECT | 350V | 220nF | |
| C1583 | ECJ2VB1C224K | ELECT | 350V | 220nF | |
| C1584 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1585 | ECEA1CKA100 | ELECT | 16V | 10µF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|--------|--|
| C1586 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1587 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1588 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1589 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1590 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1591 | ECEA1CKA100 | ELECT | 16V | 10µF | |
| C1592 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1594 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1596 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1603 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1900 | ECQB1H153K | FILM | 50V | 15nF | |
| C1901 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1903 | ECA1EM470GB | ELECT | 25V | 47µF | |
| C1904 | ECQB1H104J | FILM | 50V | 100nF | |
| C1905 | ECQB1H104J | FILM | 50V | 100nF | |
| C1906 | ECQE2A474MWB | FILM | 250V | 470nF | |
| C1909 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| 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 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C2112 | ECEA1CU100 | ELECT | 16V | 10µF | |
| 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 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C2122 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2123 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2124 | ECUV1H560JCX | S.M. CAP | 50V | 56pF | |
| C2125 | ECUV1H470JCX | S.M. CAP | 50V | 47pF | |
| C2126 | ECUV1H560JCX | S.M. CAP | 50V | 56pF | |
| C2127 | ECUV1H010CCX | S.M. CAP | 50V | 1pF | |
| C2128 | ECUV1H010CCX | S.M. CAP | 50V | 1pF | |
| C2129 | ECA1CM102B | ELECT | 16V | 1000µF | |
| C2130 | ECA1CM331B | ELECT | 16V | 330µF | |
| C2134 | ECUV1H103ZFX | S.M. CAP | 50V | 10nF | |
| C2135 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C2136 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2137 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C2138 | ECUV1H471KBX | S.M. CAP | 50V | 470pF | |
| C2139 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2140 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C2141 | ECUV1H152JCX | S.M. CAP | 50V | 1.5pF | |
| C2301 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C2303 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3001 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3002 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| 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 | |
| C3009 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C3012 | ECUV1H561JCX | S.M. CAP | 50V | 560pF | |
| C3013 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C3014 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |

| Cct Ref | Parts Number | Description | | |
|--|---------------|---------------------|-------|-------|
| C3015 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3016 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| 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 |
| C3026 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3027 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3028 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3030 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3031 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3032 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3111 | ECUV1H222K BX | S.M. CAP | 50V | 2.2nF |
| C3201 | ECUV1H103K BX | S.M. CAP | 50V | 10nF |
| C3202 | ECUV1H103K BX | S.M. CAP | 50V | 10nF |
| C3203 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3204 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3206 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3207 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3209 | ECUV1H103K BX | S.M. CAP | 50V | 10nF |
| C3210 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3211 | ECUV1H103K BX | S.M. CAP | 50V | 10nF |
| C3212 | ECUV1H103K BX | S.M. CAP | 50V | 10nF |
| C3213 | ECUV1H103K BX | S.M. CAP | 50V | 10nF |
| C3214 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C3215 | ECUV1H103K BX | S.M. CAP | 50V | 10nF |
| C3216 | ECA1CM330GB | ELECT | 16V | 33pF |
| C3217 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| TERMINALS AND LINKS | | | | |
| E18 | 3848-8-8 | SCART SOCKET | | |
| JK2301 | JPJ841101320 | RCA SOCKET | | |
| JK3001 | 350808500 | SCART SOCKET | | |
| JK3201 | TJB8E026 | AV TERMINAL | | |
| SWITCHES | | | | |
| S802 | ESB92S11B | SWITCH | | |
| S1251 | EVQ21405R | SWITCH | | |
| S1252 | EVQ21405R | SWITCH | | |
| S1253 | EVQ21405R | SWITCH | | |
| S1254 | EVQ21405R | SWITCH | | |
| S1255 | EVQ21405R | SWITCH | | |
| RELAYS | | | | |
| RL801 | TSE1885-1 | RELAY | | |
| DIFFERENCES FOR MODEL TX--32DK20D | | | | |
| MECHANICAL PARTS | | | | |
| 21 | TKY8E492-1 | CABINET | | |
| 22 | TKP8E1308 | DOOR LID | | |
| 23 | TNP8EE013BA | E PCB | | |
| 24 | TQF8E3065 | MODEL LABEL | | |
| 25 | TBX8E078 | POWER BUTTON | | |
| MISCELLANEOUS COMPONENTS | | | | |
| | 832AG11D-ESL | IC SOCKET | | |
| | TBM8E1942 | AV PANEL LABEL | | |
| | TBM8E1976 | PRESET LABEL (L) | | |
| | TBM8E1977 | PRESET LABEL (R) | | |
| | TEK6940 | LID CATCH | | |
| | TES2298 | CRT EARTH SPRING | | |
| | TES8E019 | POWER BUTTON SPRING | | |
| | TKP8E1310 | IR COVER | | |
| | TMW8E030 | LED HOLDER | | |
| | TPC8E4802-1 | OUTER CARTON | | |
| | TPD8E712 | TOP CUSHION | | |

| Cct Ref | Parts Number | Description |
|---|--------------|---------------------|
| | TPD8E713 | BOTTOM CUSHION |
| | UM-3DJ-2P | BATTERY PACK |
| | VP19001 | C.R.T. BUSH |
| INSTRUCTION BOOKS | | |
| | TQB8E3084A | GERMAN |
| | TQB8E3084C | ITALIAN |
| | TQB8E3084D | FRENCH |
| I.C.s | | |
| IC1103 | XDG3-1SD | EAROM* |
| DIFFERENCES FOR MODEL TX--32DK20DB | | |
| MECHANICAL PARTS | | |
| 21 | TKY8E495-2 | CABINET |
| 22 | TKP8E1320-1 | DOOR LID |
| 23 | TNP8EE013BA | E PCB |
| 24 | TQF8E3069-1 | MODEL LABEL |
| 25 | TBX8E082 | POWER BUTTON |
| MISCELLANEOUS COMPONENTS | | |
| | 832AG11D-ESL | IC SOCKET |
| | TBM8E1942 | AV PANEL LABEL |
| | TBM8E1976 | PRESET LABEL (L) |
| | TBM8E1977 | PRESET LABEL (R) |
| | TEK6940 | LID CATCH |
| | TES2298 | CRT EARTH SPRING |
| | TES8E019 | POWER BUTTON SPRING |
| | TKP8E1310 | IR COVER |
| | TMW8E030 | LED HOLDER |
| | TPC8E4802-1 | OUTER CARTON |
| | TPD8E712 | TOP CUSHION |
| | TPD8E713 | BOTTOM CUSHION |
| | UM-3DJ-2P | BATTERY PACK |
| | VP19001 | C.R.T. BUSH |
| INSTRUCTION BOOKS | | |
| | TQB8E3084A | GERMAN |
| | TQB8E3084C | ITALIAN |
| | TQB8E3084D | FRENCH |
| I.C.s | | |
| IC1103 | XDG3-1SD | EAROM* |
| DIFFERENCES FOR MODEL TX--32DK20F | | |
| MECHANICAL PARTS | | |
| 21 | TKY8E492-1 | CABINET |
| 22 | TKP8E1308 | DOOR LID |
| 23 | TNP8EE013AQ | E PCB |
| 24 | TQF8E3042 | MODEL LABEL |
| 25 | TBX8E078 | POWER BUTTON |
| MISCELLANEOUS COMPONENTS | | |
| | 832AG11D-ESL | IC SOCKET |
| | TBM8E1942 | AV PANEL LABEL |
| | TBM8E1976 | PRESET LABEL (L) |
| | TBM8E1977 | PRESET LABEL (R) |
| | TEK6940 | LID CATCH |
| | TES2298 | CRT EARTH SPRING |
| | TES8E019 | POWER BUTTON SPRING |
| | TKP8E1310 | IR COVER |
| | TMW8E030 | LED HOLDER |
| | TPC8E4802-1 | OUTER CARTON |
| | TPD8E712 | TOP CUSHION |
| | TPD8E713 | BOTTOM CUSHION |
| | UM-3DJ-2P | BATTERY PACK |
| | VP19001 | C.R.T. BUSH |

| Cct Ref | Parts Number | Description | |
|--------------------------|--------------|----------------|---|
| INSTRUCTION BOOKS | | | |
| | TQB8E3240AE | GERMAN/SPANISH | ▲ |
| | TQB8E3240BD | DUTCH/FRENCH | ▲ |
| | TQB8E3240FG | SWEDISH/NORW. | ▲ |
| | TQB8E3240HK | SUOMI/DANISH | ▲ |
| I.C.s | | | |
| IC1103 | XDG3-1SF | EAROM* | ▲ |

| Cct Ref | Parts Number | Description |
|---------|--------------|-------------|
| | | |

SCHEMATIC DIAGRAMS FOR MODELS
TX-28DK20D
TX-28DK20F
(EURO-4H CHASSIS)

IMPORTANT SAFETY NOTICE

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

NOTES

1. **RESISTOR**

All resistors are carbon $\frac{1}{4}W$ resistor, unless marked otherwise.

Unit of resistance is OHM (Ω) ($k=1,000$, $M=1,000,000$)

2. **CAPACITORS**

All capacitors are ceramic 50V unless marked otherwise. Unit of capacitance is μF unless otherwise stated.

3. **COIL**

Unit of inductance is μH , unless otherwise stated.

4. Components marked "L" on the schematic diagram shows leadless parts.

5. **TEST POINT**



Test Point Position

6. **EARTH SYMBOL**

 Chassis Earth (Cold)  Line Earth (Hot)

7. **VOLTAGE MEASUREMENT**

Voltage is measured by a d.c. voltmeter.

Measurement conditions are as follows:

Power source a.c. 220V-240V, 50Hz

Receiving Signal Colour Bar signal (RF)

All customer controls Maximum position.

8.  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

1. 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 :-
 - a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
 - b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
 - c. 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.
 - d. Always disconnect the power plug before removing the chassis.

SCHEMA TECHNIQUE POUR MODELE
TX-28DK20D
TX-28DK20F
(EURO-4H CHASSIS)

REMARQUE IMPORTANTE POUR LA SÉCURITÉ

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

NOTA

1. **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) ($k=1,000$, $M=1,000,000$)

2. **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.

3. **BOBINE**

L'unité d'inductance est le μH , sauf indication contraire.

4. Les composants entourés de pointillés, sur le schéma, représentent des éléments non câblés.

5. **POINT D'ESSAI**



Position du point d'essai

6. **SYMBOL DE TERRE**



Terre du châssis (froid)



Terre de ligne (chaud)

7. **MESURE DE TENSION**

La tension est mesurée avec un voltmètre c.c.

Les conditions de mesure sont les suivantes:

Source d'alimentation c.a. 220V-240V, 50Hz

Signal de réception Signal barre couleur (RF)

Toutes les commandes utilisateur Position maximum.

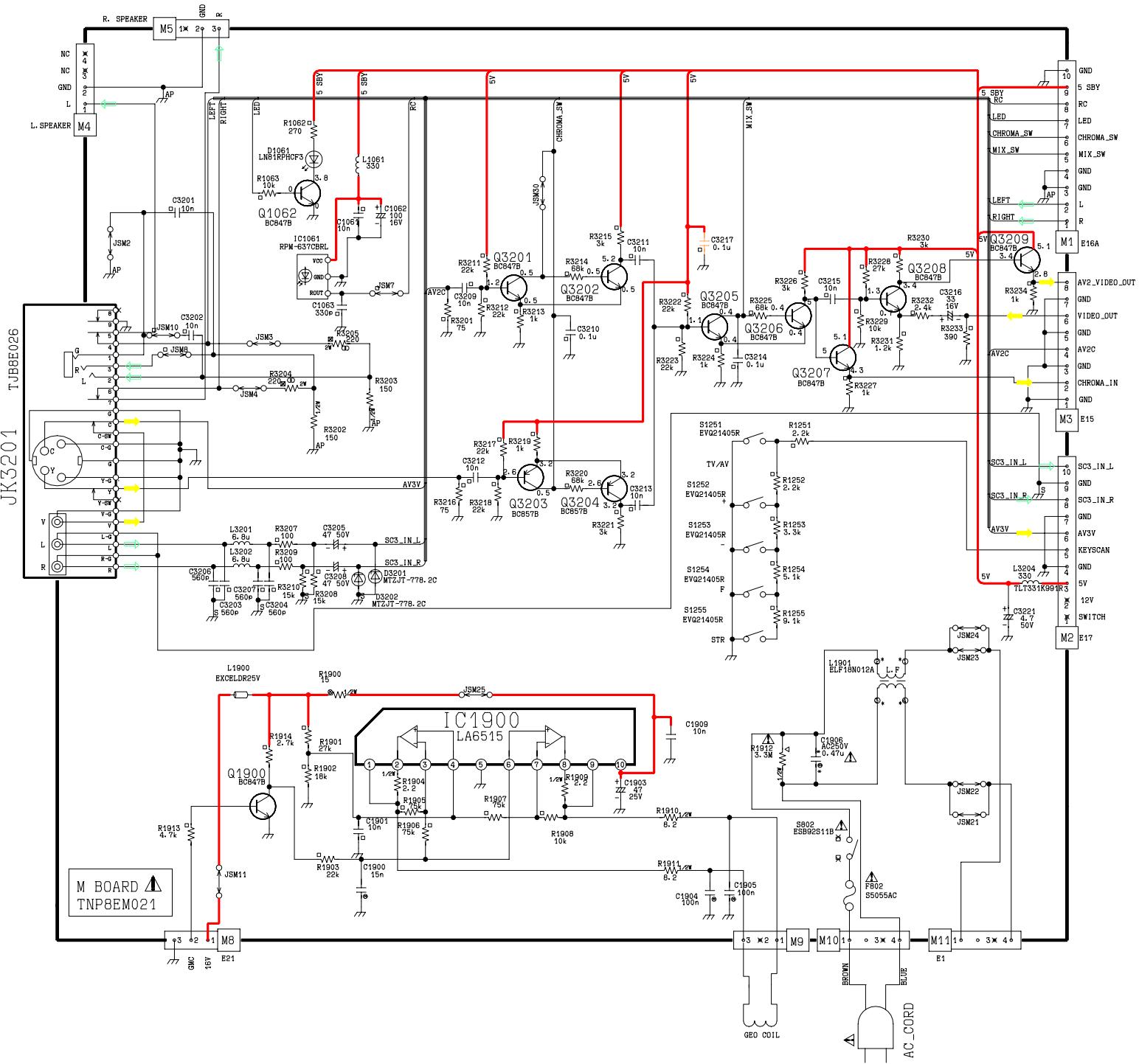
8.  Vidéo

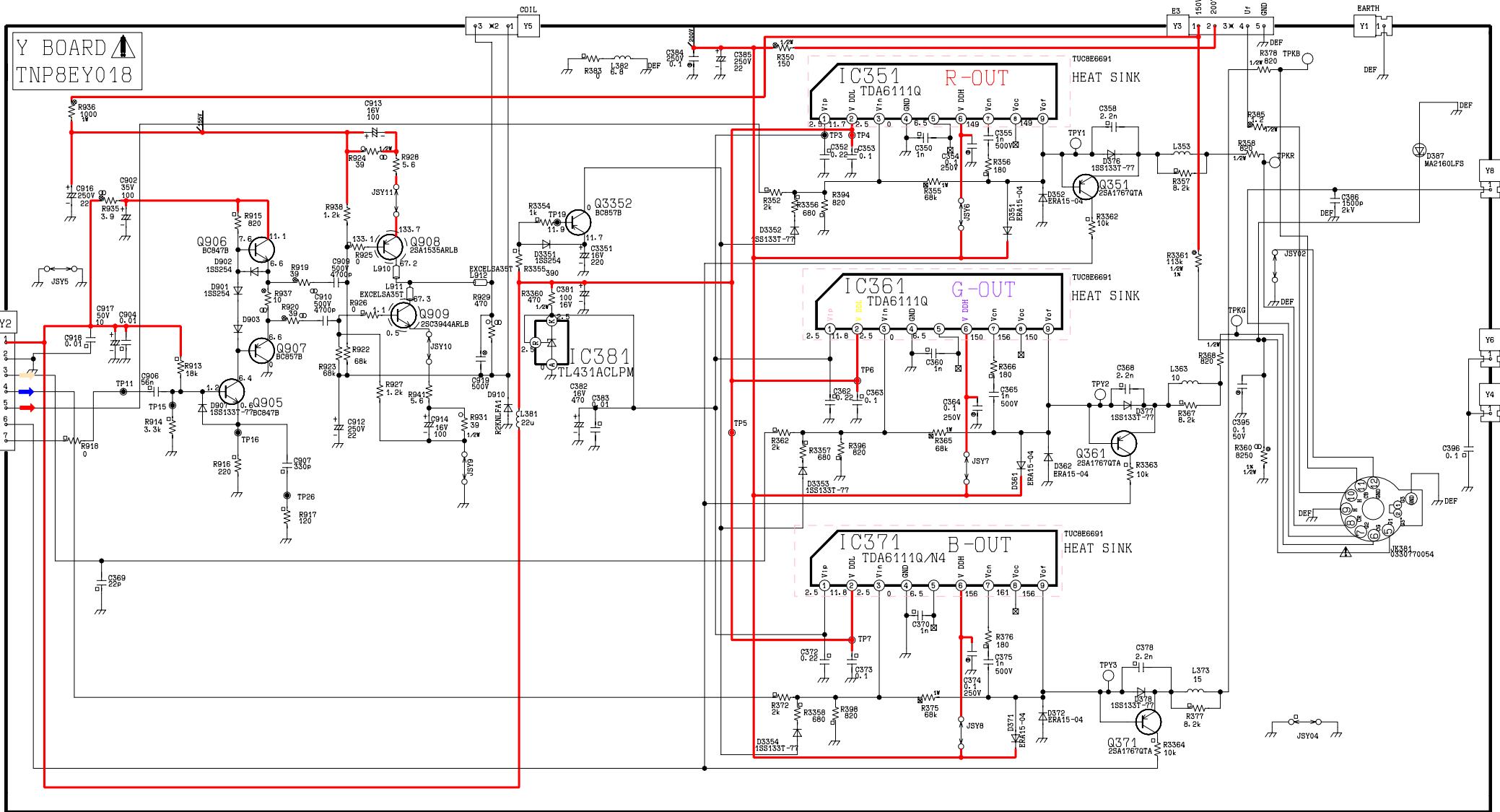
 Audio

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

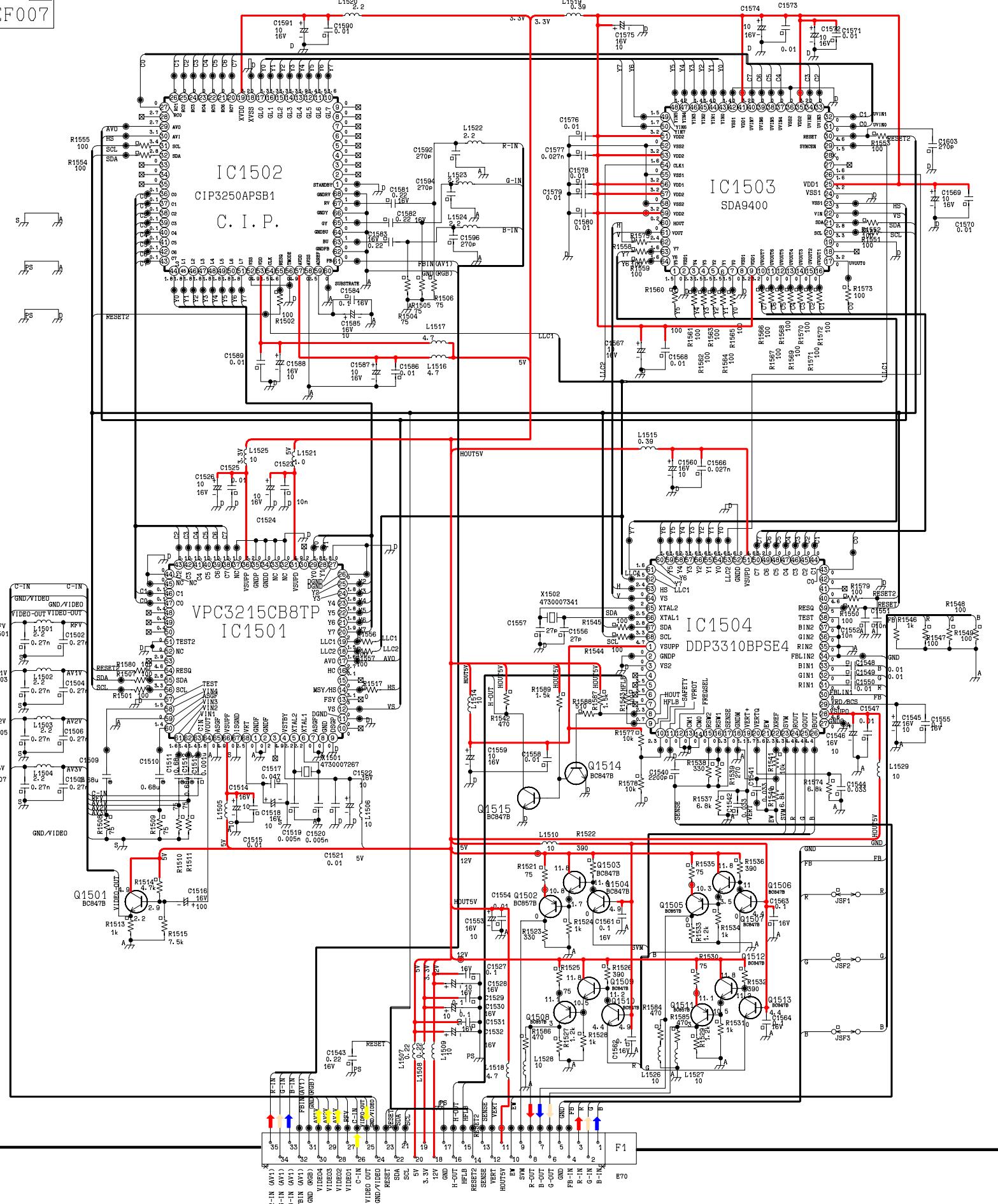
REMARQUE

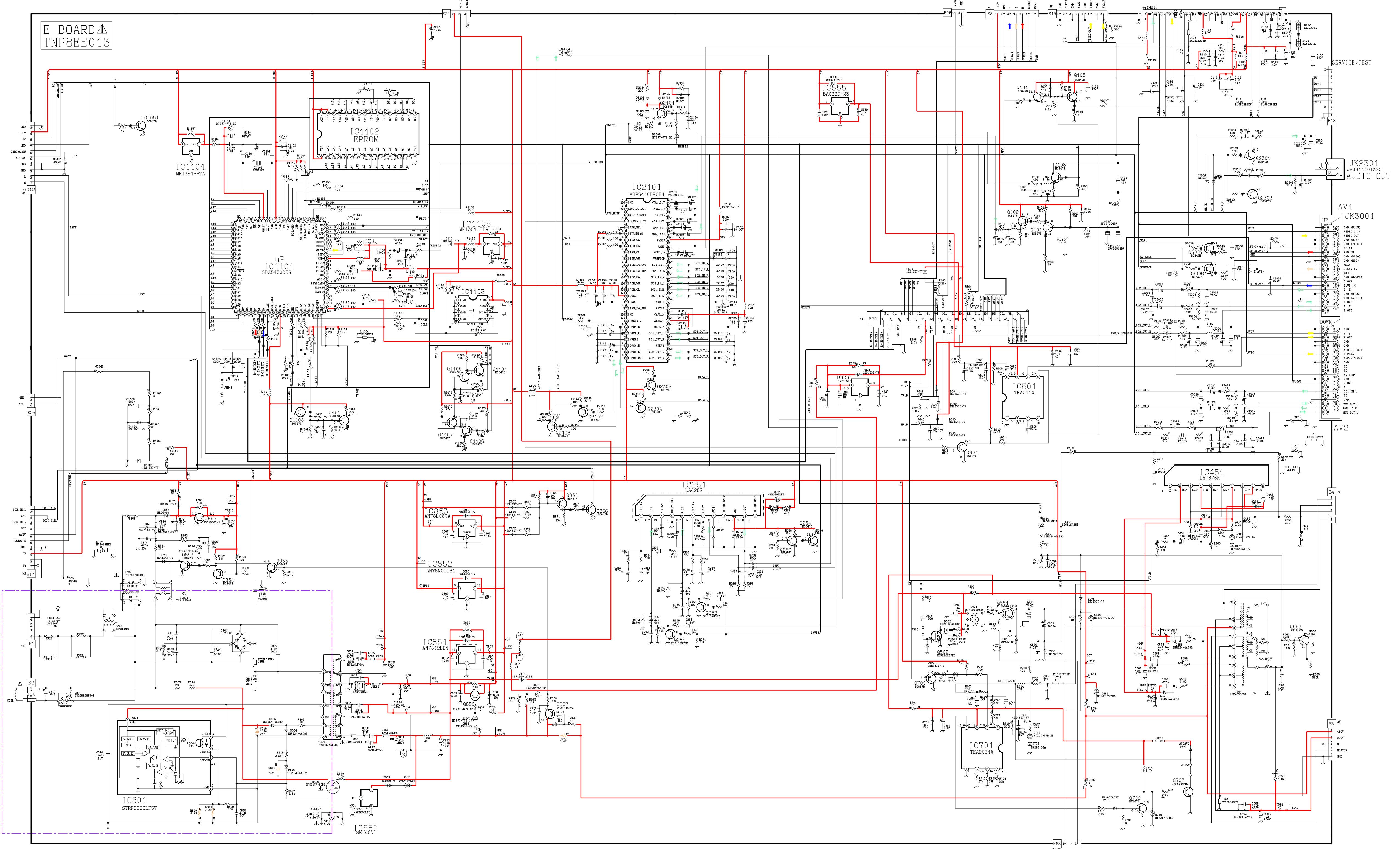
1. Le circuit d'alimentation contient une zone qui utilise une alimentation séparée pour isoler la connexion à la terre. Le circuit est défini par les indications chaud (HOT) et froid (COLD) dans le diagramme schématique. Prendre les précautions suivantes. Tous les circuits, sauf le circuit d'alimentation,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

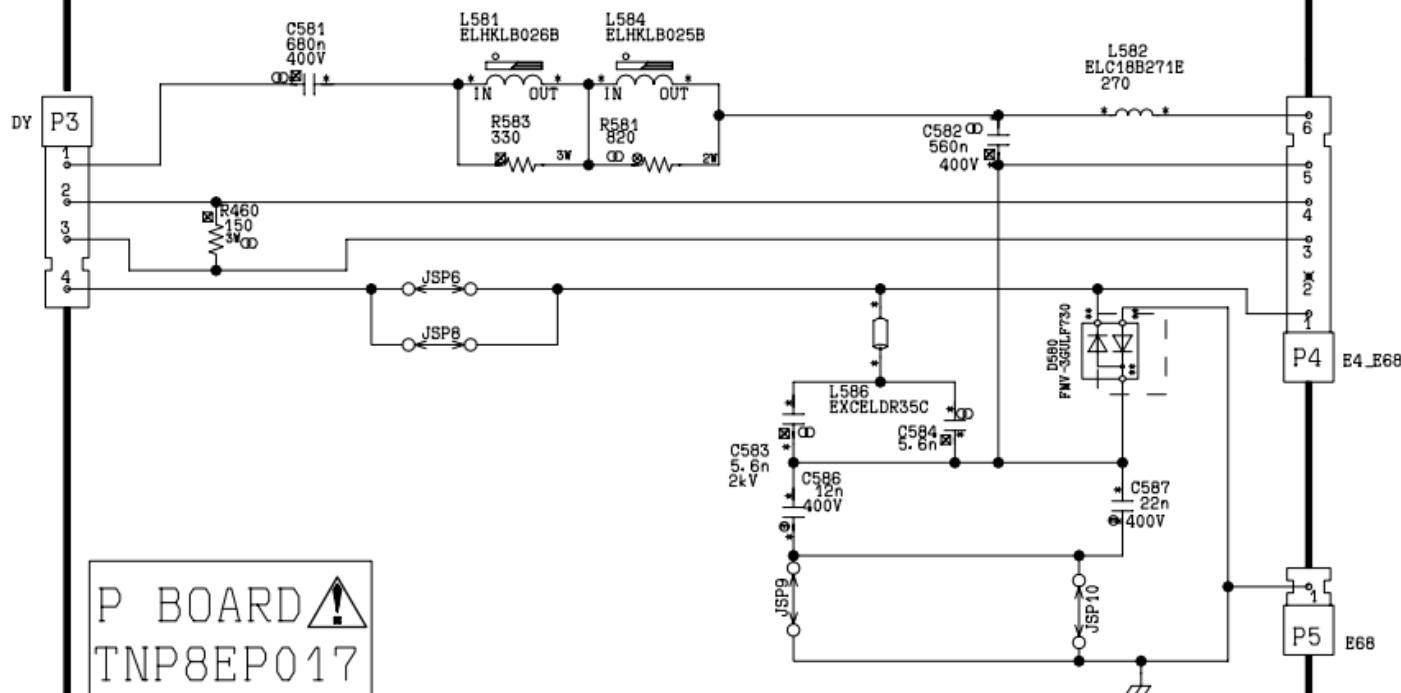




F BOARD !
TNP8EF007



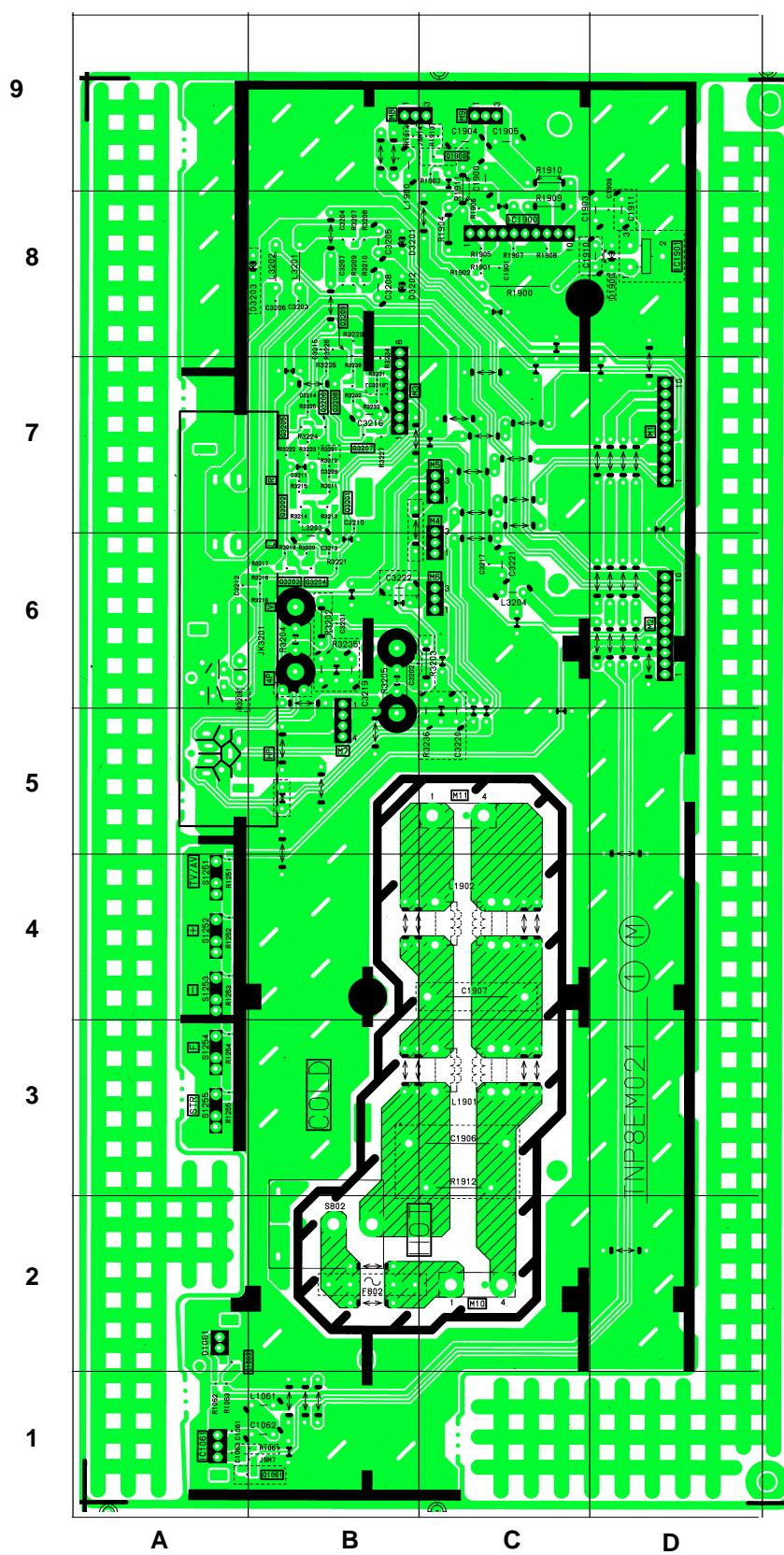




P BOARD !
TNP8EP017

M - BOARD TNP8EM021

| TRANSISTORS | |
|-------------|----|
| Q1061 | B1 |
| Q1062 | B2 |
| Q3201 | B7 |
| Q3202 | B7 |
| Q3203 | B6 |
| Q3204 | B6 |
| Q3205 | B7 |
| Q3206 | B7 |
| Q3207 | B7 |
| Q3208 | B7 |
| Q3209 | B8 |
| Q1900 | C9 |
| DIODES | |
| D1061 | A2 |
| D3201 | B8 |
| D3202 | B8 |
| D3203 | B8 |
| D1900 | D8 |
| IC'S | |
| IC1061 | A1 |
| IC1900 | C8 |
| IC1901 | D8 |

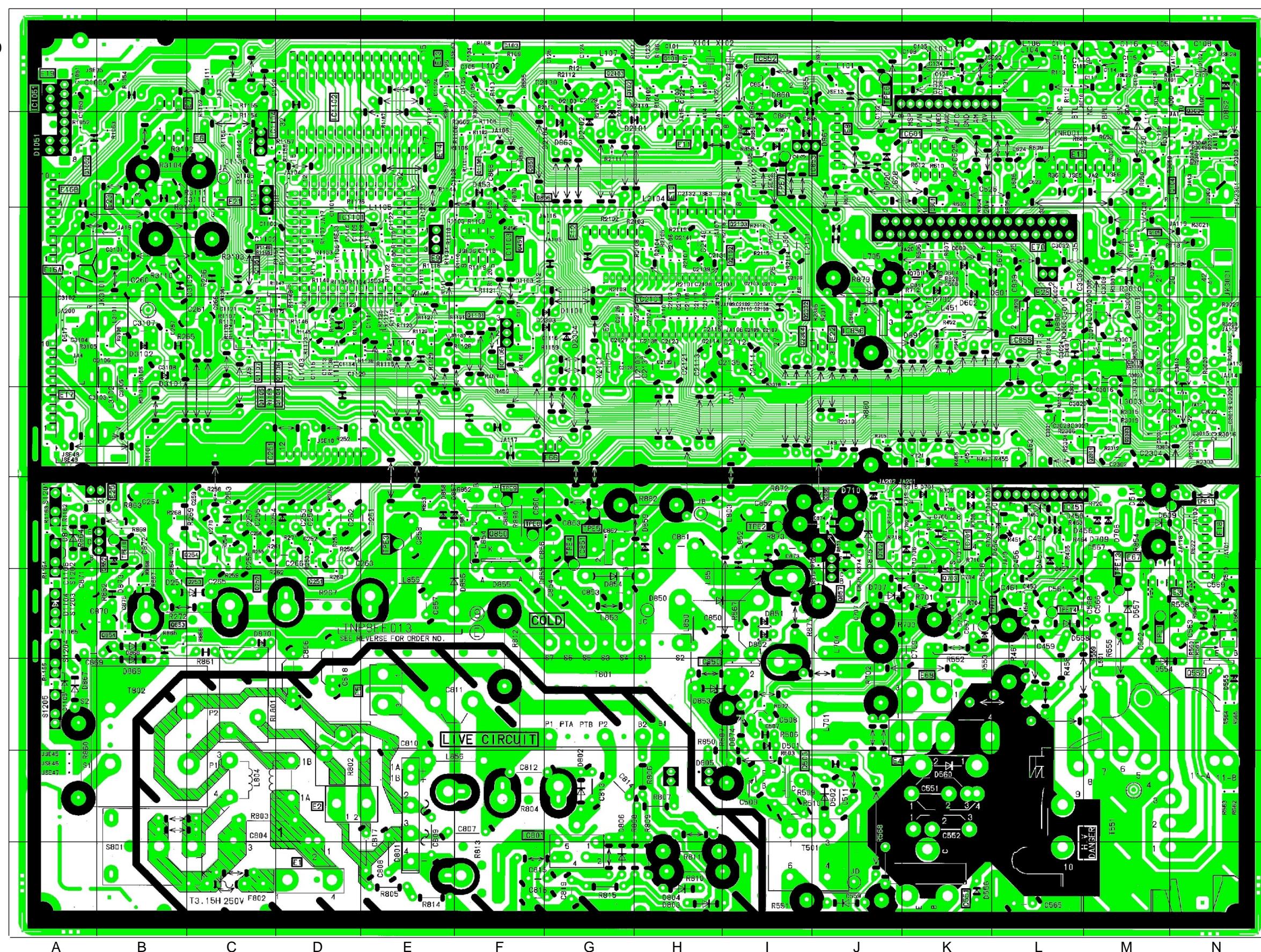


CONDUCTOR VIEWS

VIEW DU CIRCUIT IMPRIMÉ

E-BOARD TNP8EE013

| TRANS | | DIODES | |
|-------|-----|--------|-----|
| Q101 | H10 | D251 | D4 |
| Q103 | F10 | D253 | C4 |
| Q104 | N9 | D254 | B5 |
| Q105 | M8 | D453 | F9 |
| Q182 | G10 | D454 | L5 |
| Q251 | D4 | D456 | L5 |
| Q252 | C4 | D457 | L5 |
| Q253 | C4 | D458 | L5 |
| Q254 | C5 | D501 | I3 |
| Q451 | F8 | D502 | J2 |
| Q503 | I2 | D511 | M5 |
| Q551 | K1 | D553 | K4 |
| Q552 | N3 | D554 | M3 |
| Q601 | K9 | D555 | N3 |
| Q701 | K8 | D556 | K1 |
| Q702 | J5 | D557 | M4 |
| Q703 | K4 | D558 | L4 |
| Q850 | F5 | D559 | J1 |
| Q851 | F9 | D560 | K2 |
| Q852 | B5 | D601 | K8 |
| Q853 | B4 | D602 | K8 |
| Q854 | B4 | D603 | K8 |
| Q855 | J5 | D604 | K8 |
| Q856 | F9 | D609 | M5 |
| Q857 | J4 | D620 | J9 |
| Q1051 | C8 | D701 | K5 |
| Q1052 | A9 | D702 | K8 |
| Q1101 | F7 | D703 | K8 |
| Q1104 | D6 | D704 | K5 |
| Q1105 | C6 | D705 | K5 |
| Q1106 | D7 | D706 | K5 |
| Q1107 | C7 | D707 | J4 |
| Q1108 | F9 | D708 | M5 |
| Q2101 | G10 | D709 | M5 |
| Q2102 | I8 | D710 | J5 |
| Q2103 | I8 | D801 | E1 |
| Q2301 | M6 | D802 | G2 |
| Q2302 | I7 | D803 | H1 |
| Q2303 | M6 | D804 | H1 |
| Q2304 | I7 | D805 | H2 |
| Q3006 | N10 | D806 | G2 |
| Q3007 | M9 | D850 | H4 |
| D851 | I4 | IC251 | D6 |
| D852 | I4 | IC451 | L5 |
| D853 | H3 | IC801 | G2 |
| D854 | G4 | IC850 | H4 |
| D856 | F4 | IC851 | G5 |
| D857 | E5 | IC852 | I10 |
| D858 | E5 | IC853 | I9 |
| D859 | H5 | IC855 | L7 |
| D860 | I10 | IC856 | J7 |
| D861 | J9 | IC1051 | A10 |
| D862 | N10 | IC1101 | D8 |
| D863 | G9 | IC1102 | D10 |
| D864 | I9 | IC1103 | F8 |
| D865 | I9 | IC1104 | C9 |
| D866 | I9 | IC1105 | F7 |
| D867 | A3 | IC2101 | H8 |
| D868 | B4 | | |



Y - BOARD TNP8EY018

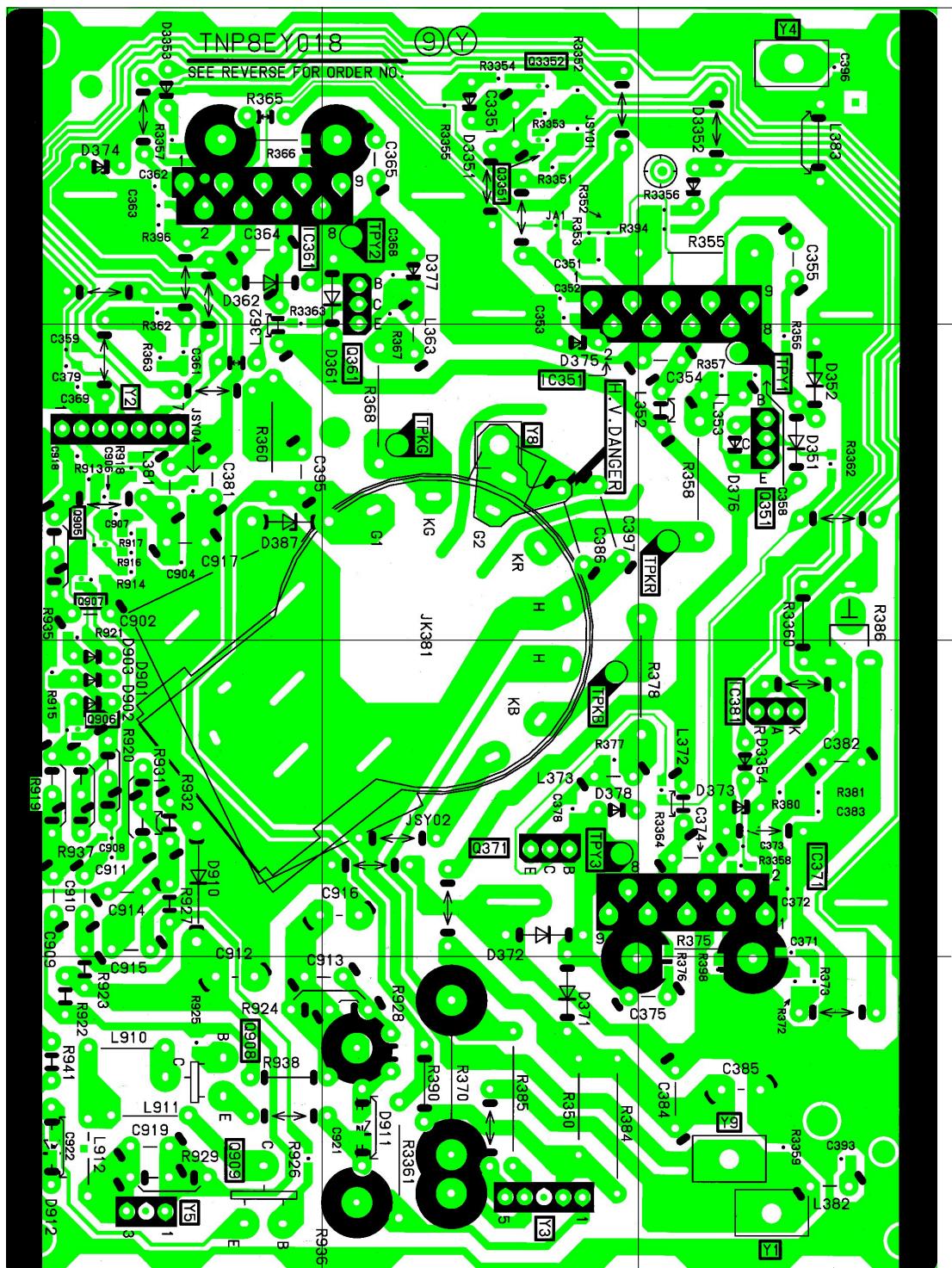
| TRAN'S | |
|--------|----|
| Q351 | B3 |
| Q361 | B2 |
| Q371 | C2 |
| Q905 | B1 |
| Q906 | C1 |
| Q907 | B1 |
| Q908 | D1 |
| Q909 | D1 |
| Q3351 | A2 |
| Q3352 | A2 |
| DIODES | |
| D351 | B3 |
| D352 | B3 |
| D361 | B2 |
| D362 | A1 |
| D371 | D2 |
| D372 | C2 |
| D373 | C3 |
| D374 | A1 |
| D375 | B2 |
| D376 | B3 |
| D377 | A2 |
| D378 | C2 |
| D387 | B1 |
| D901 | C1 |
| D902 | C1 |
| D903 | C1 |
| D910 | C1 |
| D911 | D2 |
| D912 | D1 |
| D3351 | A2 |
| D3352 | A3 |
| D3353 | A1 |
| D3354 | C3 |
| T.P.'S | |
| TPY1 | B3 |
| TPY2 | A2 |
| TPY3 | C2 |
| TPKR | B3 |
| TPKG | B2 |
| TPKB | C2 |
| I.C.'S | |
| IC351 | B2 |
| IC361 | A1 |
| IC371 | C3 |
| IC381 | C3 |

A

B

C

D



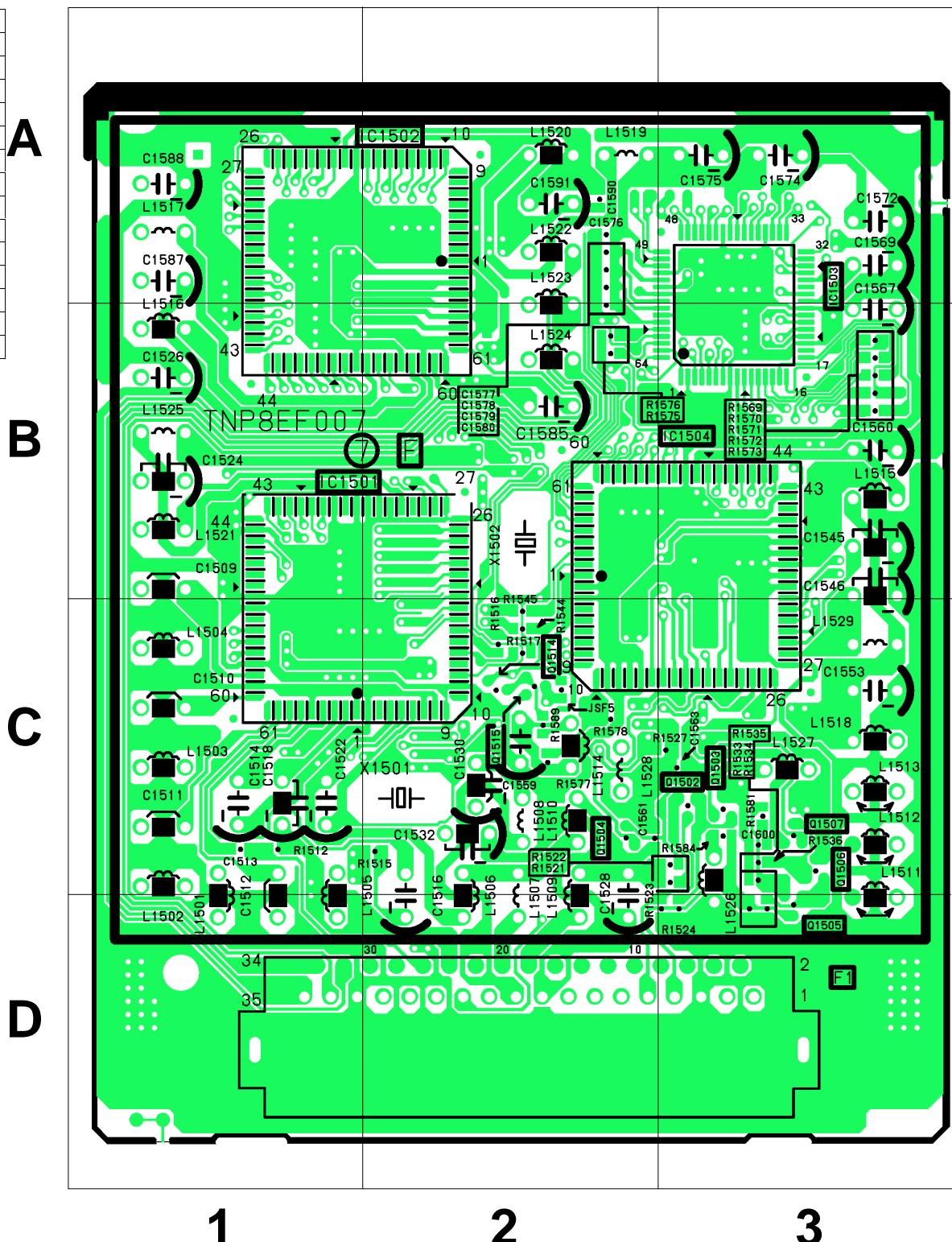
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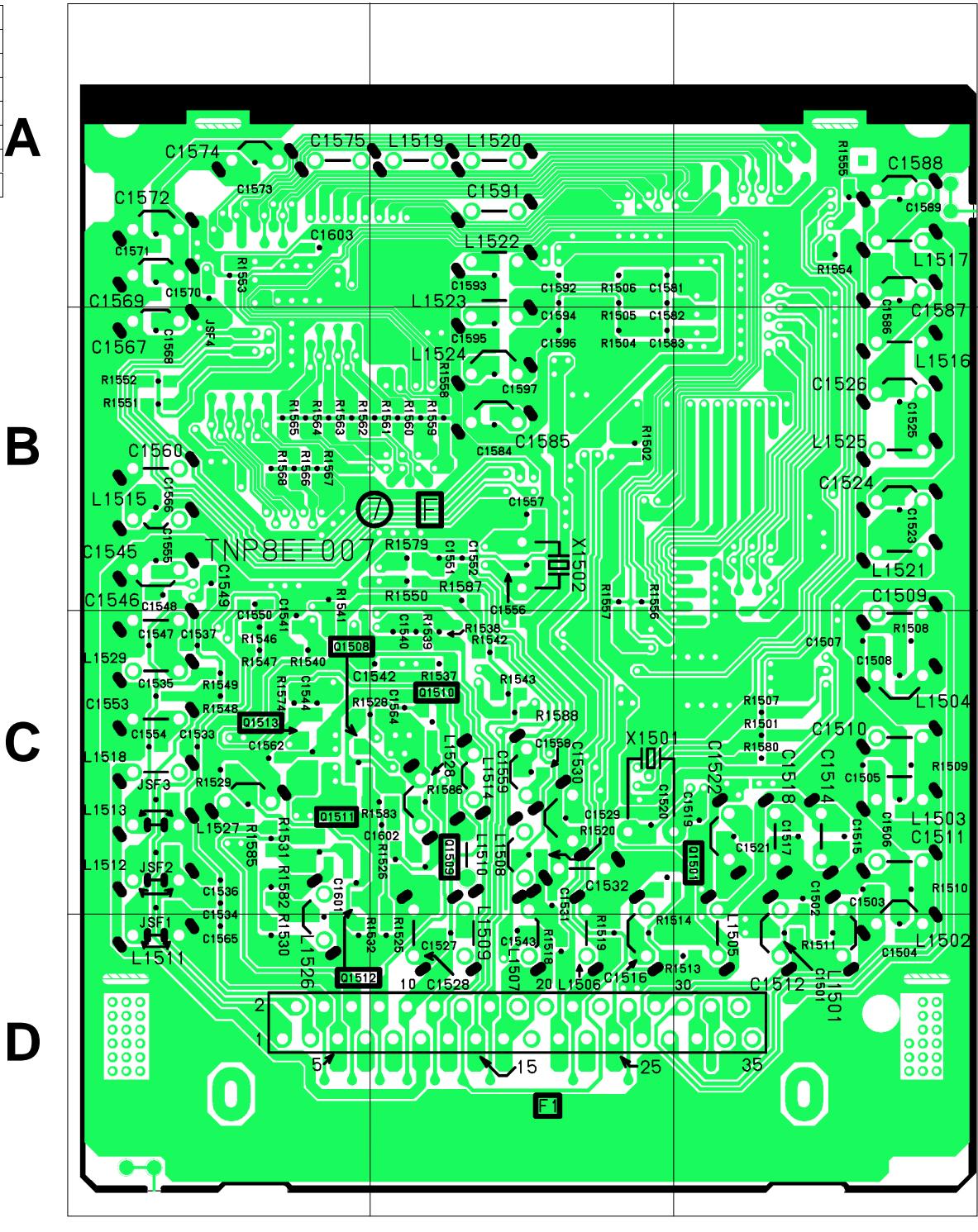
F - BOARD TNP8EF007

| | |
|-----------|--|
| TRAN'S | |
| Q1502 C3 | |
| Q1503 C3 | |
| Q1504 C2 | |
| Q1505 D3 | |
| Q1506 C3 | |
| Q1507 C3 | |
| Q1514 C2 | |
| Q1515 C2 | |
| | |
| I.C.'S | |
| IC1501 B1 | |
| IC1502 A2 | |
| IC1503 A3 | |
| IC1504 B3 | |



F - BOARD TNP8EF007

| TRAN'S | |
|--------|----|
| Q1501 | C3 |
| Q1508 | C1 |
| Q1509 | C2 |
| Q1510 | C2 |
| Q1511 | C1 |
| Q1512 | D1 |
| Q1513 | C1 |



1

2

3

P - BOARD TNP8EP017

| |
|----------------|
| DIODES |
| D580 C1 |
| D581 C1 |

