

Service Manual

Colour Television EURO 3HW Chassis

TX-25AD50F TX-29AD50F

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Service Manual



Colour Television

TX-29AD50F

TX-25AD50F

EURO-3H Chassis

Specifications

(Information in brackets {} refers to TX-25AD50F)

Power Source :	220 - 240 V AC, 50Hz
Power Consumption :	159W {149W}
Aerial Impedance :	75W unbalanced, Coaxial Type
Receiving System :	PAL B/G, D/K, I, H, PAL - 60 SECAM B/G, D/K, L/L' M.NTSC, NTSC (AV Only)
Receiving Channels :	VHF E2 - E12
VHF H1 - H2 (ITALY)	VHF A - H (ITALY)
VHF R1 - R2	VHF R3 - R5
VHF R6 - R12	UHF E21 - E69
CATV (S01 - S05)	CATV S1 - S10 (M1 - M10)
CATV S11 - S20 (U1 - U10)	CATV S21 - S41 (HYPERBAND)

Intermediate Frequency :

Video	38.9MHz,34MHz
Sound	32.9MHz,33.4MHz
	33.16MHz,32.4MHz
	40.4MHz,34.05MHz,33.05MHz
Colour	34.65MHz,34.47MHz,34.5MHz

Video / AudioTerminals

AUDIO MONITOR OUT	Audio (RCA x 2)	500 mV rms 1kW
AV1 INVideo (21 pin)	1 Vp-p 75W	
	Audio (21 pin)	500 mV rms 10kW
	RGB (21 pin)	
AV1 OUT	Video (21 pin)	1 Vp-p 75W
	Audio (21 pin)	500 mV rms 1kW
AV2 INVideo (21 pin)	1 Vp-p 75W	
	Audio (21 pin)	500 mV rms 10 kW
	S-Video IN (21 pin)	Y : 1 Vp-p 75W C : 0.3 Vp-p 75W
AV2 OUT	Video (21 pin)	1 Vp-p 75W
	Audio (21 pin)	500 mV rms 1kW
	Selectable output (21 pin)	
AV3 INS-Video IN	Y : 1 Vp-p 75W (4-pin)	C : 0.3 Vp-p 75W
	Audio (RCA x 2)	500 mV rms 10kW
	Video (RCA x 1)	1 Vp-p 75W

High Voltage :

Picture Tube :	30.5 kV "1kV at zero beam current
A68ESF002X43	72 cm
{A59ESF002X43	63 cm}

110_deflection

Audio	Output	:	Sortie
Internal Speaker	2 x 20W (Left/Right)(Music Power) 25W (3D Bass)(Music Power)		Hautes parleurs interieurs
	8 W Impedance		
Headphones	8 W Impedance		Casque d'écoute
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries		Accessories fournis :

Dimensions :

Height :	570mm	{510mm}
Width :	698mm	{625mm}
Depth :	483mm	{468mm}
Net Weight	37kg	{31kg}

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

Caractéristiques

(Les informations entre parenthèses {} concernent le TX - 25AD50F)

Alimentation :	220 - 240 V AC, 50Hz
Power Consumption :	159W {149W}
Impédance d'antenne :	75W asymétrique sur prise coaxiale
Système de réception :	PAL B/G, D/K, I, H, PAL - 60 SECAM B/G, D/K, L/L' M.NTSC, NTSC (Entrée AV seulement)
Canaux de réception :	VHF E2 - E2 VHF A - H (ITALY) VHF R1 - R5 VHF R6 - R12 UHF E21 - E69 CATV (S01 - S05) CATV S1 - S20 (U1 - U10)

Fréquence	E2	-	E2
Video	VHF	A	-
Sound	R1	-	H (ITALY)
	R2	-	R5
	R3	-	R5
	VHF	R6	-
	E21	-	E69
	CATV	S1	-
	S20	(M1	-
		M10)	
	CATV	S21 - S41 (HYPERBAND)	

Intermédiaire	:	
Video	38.9MHz,34MHz	
Sound	32.9MHz,33.4MHz	
	33.16MHz,32.4MHz	
Colour	40.4MHz,34.05MHz,33.05MHz	
	34.65MHz,34.47MHz,34.5MHz	
Les bornes vidéo/audio :		
Audio	(RCA x 2)	500 mV rms 1kW
Vidéo	1 Vp-p 75W	
Audio	500 mV rms 10kW	
RGB		
Sortie AV1 (21 broches)		
Vidéo	1 Vp-p 75W	
Audio	500 mV rms 1kW	
Entrée AV2 (21 broches)		
Vidéo	1 Vp-p 75W	
Audio	500 mV rms 10 kW	
S-Video IN (21 broches)		
Vidéo	1 Vp-p 75W	
Audio	500 mV rms 10 kW	
Sortie AV2 (21 broches)		
Vidéo	1 Vp-p 75W	
Audio	500 mV rms 1kW	
Sortie Commutable (21 broches)		
S-Vidéo IN (4-pin)		
Vidéo	Y : 1 Vp-p 75W	
Audio (RCA x 2)	C : 0.3 Vp-p 75W	
Vidéo (RCA x 1)	500 mV rms 10kW	
	1 Vp-p 75W	

Tension d'anode :	30.5 kV "1kV	
Tube image :	A68ESF002X43	72 cm
	{A59ESF002X43	63 cm}
	110_mesure diagonale	

Sortie		
Hautes parleurs interieurs	2 x 20W (Gauche/Droite)	(Music Power)
	25W (3D Bass)	(Music Power)
	8 W Impédance	
Casque d'écoute	8 W Impédance	
Accessories fournis :		
Dimensions		

Dimensions		
Hauteur :	570mm	{510mm}
Largeur :	698mm	{625mm}
Profondeur :	483mm	{468mm}
Poids (NET) :	37kg	{31kg}

Les caractéristiques techniques sont susceptibles de modification sans Préavis.
Le poids et les dimensions indiqués sont approximatifs.

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SAFETY PRECAUTIONS

General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 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 picture to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

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

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PRECAUTIONS DE SECURITE

Conseils Generaux

1. Avant d'effectuer toute révision d'un châssis sous tension il est recommandé d'installer un transformateur d'isolation.
2. Il est important, lors des réparations, de conserver la position initial de tous les fils et faisceaux, surtout dans le circuit de la haute tension. Remplacer toutes les pièces affectées par la chaleur dégagée lors d'un cort-circuit.
3. Après les réparations, s'assurer que toutes les pièces protectrices telles que barrières ou papiers isolants, 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 4MW, et 20MW. La résistance des pièces qui ne sont pas en contact avec le châssis doit être infinie1.

LEAKAGE CURRENT HOT CHECK

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kW 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. 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.

HOT CHECK CIRCUIT CIRCUIT DE VERIFICATION A CHAUD

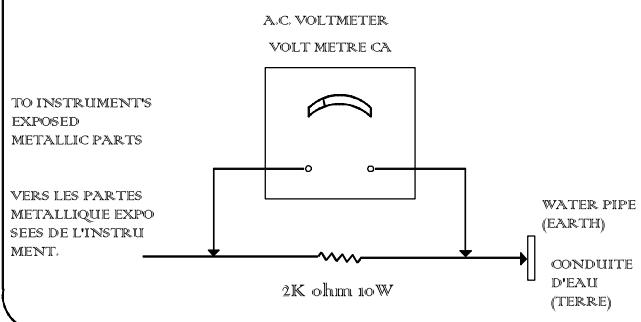


Fig.1

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 "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 2kW, 10W, en série avec une partie métallique exposée du récepteur et une terre comme une conduite d'eau.
3. Utiliser un voltmètre CA, de type à impédance élevée, pour mesurer le potentiel à travers la résistance.
4. Vérifier toutes les parties métalliques exposées et mesurer la tension à chaque point.
5. Retourner la fiche CA dans la prise secteur et répéter toutes les mesures ci-dessus.
6. Le potentiel à tous les points ne doit pas dépasser 1.4 volt RMS. AU cas où une mesure est supérieure à cette limite spécifiée, il y a un risque de décharge électrique et le récepteur doit être réparé et revérifié avant d'être rendu au client.

IRRADIATION AUX RAYONS X ATTENTION:

1. Les parties de la haute tension et du tube-cathodique d'une télé-couleur sont des sources possible d'émissions de rayons X.
2. Si un tube cathodique témoin est utilisé pour la réparation, s'assurer que son assemblage pourra supporter 31.5kV sans, émettre de radiations.

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

1. Tourner entièrement vers la gauche la commande de lumière.
2. Mesurer la haute tension à l'aide du multimètre approprié. La valeur nominale est de 30.5kV "1kV Si la lecture est hors des tolérances, une réparation immédiate s'impose afin de prévenir toute panne prématûrée.
3. Il est essentiel d'utiliser le tube cathodique d'origine pour prévenir toute émission de rayons X.

Location Of Controls

Emplacement Des Commandes

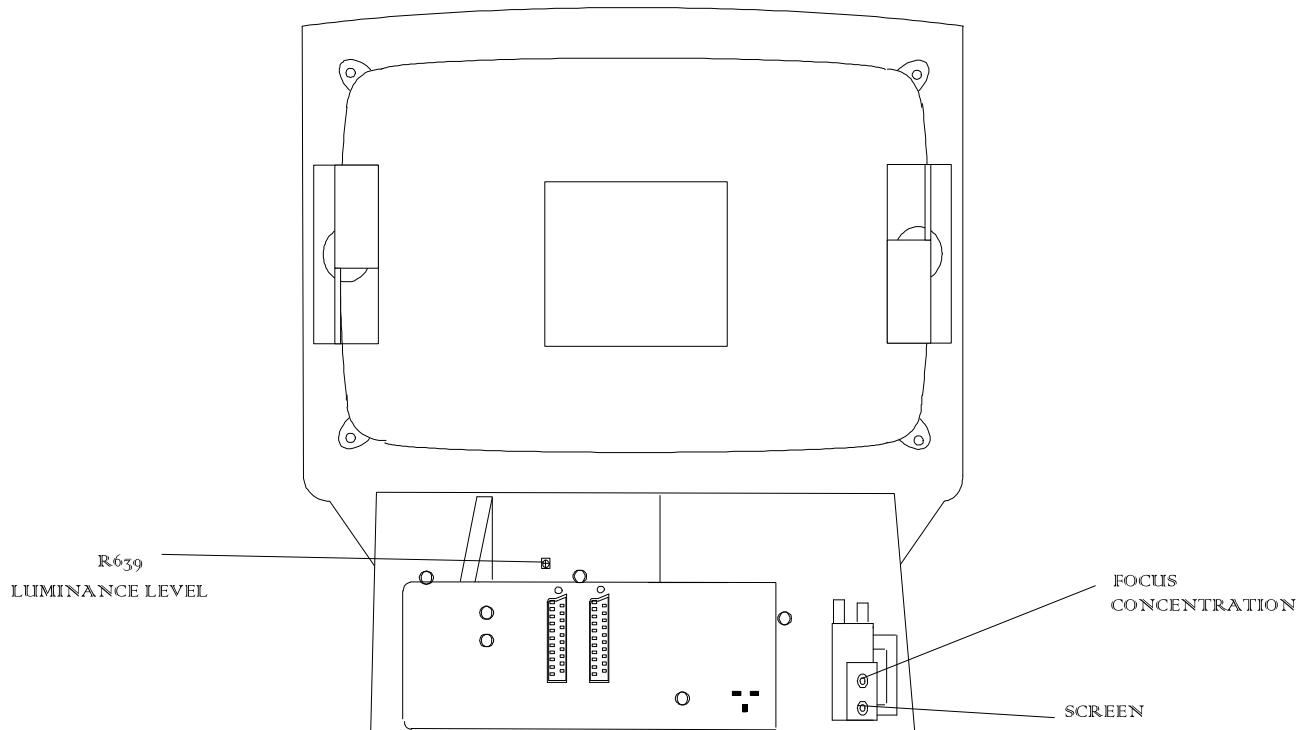


Fig.2

SERVICE HINTS

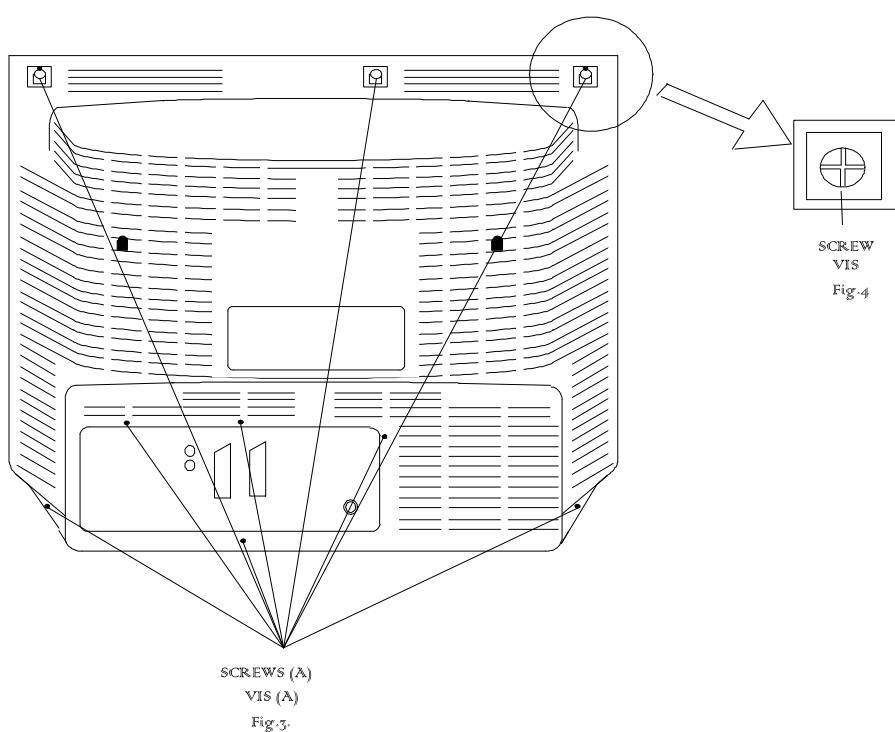
How to remove the rear cover

1. Remove the 9 screws (A) as shown in Fig.3/Fig.4.

SUGGESTIONS DE DEPANNAGE

COMMENT RETIRER LE PENNEAU ARRIERE

1. Retirer les 9 vis (A) comme sur la Fig.3. / Fig.4.



SCREWS (A)

VIS (A)

Fig.3.

SCREW
VIS

Fig.4

Adjustment Procedure

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

1. Set the Bass to maximum position, set the Treble to minimum position, press the Reveal button on the remote control and at the same time press the -/v button on the customer controls at the front of the TV, 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 STORE button after each adjustment has been made to store the required values.
5. To exit the Service Mode press the Normalisation button..

NOTE: This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels into the Memory Pack and then download them onto this or any other EURO-3 TV set.

TV to Memory Pack process

1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show:-



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



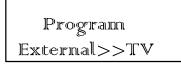
4. Press the STORE button on the TV. The screen will show:-



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



1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show:-



3. Press the STORE button on the TV. The screen will show:-



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



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

Memory Pack to TV Process

Errors

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



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

RÉGLAGES

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

1. Régler par la télécommande le niveau de **Grave** au **maximum**, **Aigu** au **minimum**. Appuyer simultanément sur le bouton -/v en face avant du TV et le bouton **Reveal** de la télécommande. Ces actions positionnent le TV en Mode Service.
2. Appuyer sur la touche **ROUGE** ou **VERTE** pour sélectionner la fonction déstrée.
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 **STORE**.
5. Pour sortir de la position SERVICE MODE arrêter le TV

REMARQUE : Le Memory Pack permet de copier la configuration du TV, (Chaines, Niveaux analogiques) et de la transférer, via le Memor vers un autre TV EURO-3H.

Processus de transfert "téléviseur vers bloc-mémoire"

1. La partie arrière du téléviseur comporte trois connecteurs à 21 broches : brancher le bloc-mémoire dans le connecteur AV2, puis mettre le téléviseur en marche ("ON").
2. Passer en Mode Service (voir ci-dessus). L'écran affichera:



3. Appuyer sur la bouton BLEU de la télécommande. L'écran du téléviseur présente le message suivant:



4. Appuyer sur la bouton de mémorisation (STORE) du téléviseur et l'écran présentera la message suivant :

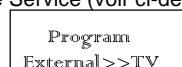


5. Toutes les informations de syntonisation enregistrées par le téléviseur seront maintenant transférées vers le bloc-mémoire. Cette opération ne prend que 2 à 3 minutes. Lorsqu'elle est terminée, l'écran du téléviseur présentera message suivant ::



Processus de transfert "bloc-mémoire vers téléviseur"

1. La partie arrière du téléviseur comporte trois connecteurs à 21 broches : brancher le bloc-mémoire dans le connecteur AV2, puis mettre le téléviseur en marche ("ON").
2. Passer en Mode Service (voir ci-dessus). L'écran afficherat:



3. Appuyer sur la bouton de mémorisation (STORE) du téléviseur et l'écran présentera la message suivant:



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



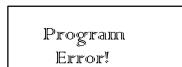
5. Les informations de syntonisation du téléviseur du bloc-mémoire ont maintenant été copiées dans le téléviseur.

6. Pour sortir du mode d'exploitation SERVICE, mettre le téléviseur hors circuit ("OFF").

7. Une fois l'opération terminée, enlever le bloc-mémoir.

Erreurs

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



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

Alignment Settings

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

Alignment Function		Settings / Special features
Vertical amplitude	V-AMP 026	Optimum setting
Vertical linearity	V-LIN 022	
V-Pos.	V-POS 005	
Horizontal amplitude	H-AMP 045	Optimum setting
Horizontal position	H-POS 032	
EW-amplitude	E/W-AMP 1 063	Optimum setting
EW-amplitude	E/W-AMP 2 021	Optimum setting
Trapezium-comp	TRAPEZ-1 004	Optimum setting
Vert. DC.	VERT. D.C. 008	
Text Position	TEXT POSITION 060	Optimum setting
Cutoff	---	Select a window pattern enter Service Mode and step through to Cutoff, connect an oscilloscope to the Blue Cathode and adjust the screen VR of the FBT to get 150_5V at the base of the Cutoff pulse.
Cutoff RGB	CUTOFF RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
White RGB	WHITE RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
Sub Brightness	SUB BRIGHT 000	Optimum setting

RÉGLAGES

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

Fonctions		Réglages / Points particuliers
Amplitude verticale	V-AMP 026	Optimiser les réglages
Linéarité verticale	V-LIN 022	
V-Pos.	V-POS 005	
Amplitude horizontal	H-AMP 045	Optimiser les réglages
Centrage horizontal	H-POS 032	
Amplitude E.O.	E/W-AMP 1 063	Optimiser les réglages
Amplitude E.O.	E/W-AMP 2 021	Optimiser les réglages
Correction trapèze	TRAPEZ-1 004	Optimiser les réglages
Vert. DC.	VERT. D.C. 008	
Text Position	TEXT POSITION 060	Optimiser les réglages
Cutoff	---	Selectionner une mire, passer en mode service, et pas à pas atteindre le menu Cutoff. Placer la sonde de l'oscilloscope sur la cathode Bleue. Régler la tension d'écran sur le transformateyr THT pour obtenir 150_5V à la base de l'impulsion de Cutt off.
Cutoff RGB	CUTOFF RGB 032 032 032	Appuyer sur la touche VERTE pour accéder aux réglages. Régler pour optimiser.
White RGB	WHITE RGB 032 032 032	Appuyer sur la touche VERTE pour accéder aux réglages. Régler pour optimiser.
Sub brightness	SUB BRIGHT 000	Optimiser les réglages

ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments																																																																											
Supply Voltage Check	1. Confirm the following voltages.																																																																											
1. Receive a window pattern 2. Set the controls: Brightness minimum Contrast minimum Volume minimum	<table> <thead> <tr> <th>E PCB</th> <th>D PCB</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>U5B 5 -</td> <td>U5A 5.1</td> <td></td> <td></td> <td></td> <td></td> <td>+0.12/-0.1V</td> </tr> <tr> <td>U8 8 -</td> <td>U5SB 5</td> <td>-</td> <td>0.25V</td> <td></td> <td></td> <td></td> </tr> <tr> <td>U9 9 -</td> <td>U15 15</td> <td>-</td> <td>0.7V</td> <td></td> <td></td> <td></td> </tr> <tr> <td>U12 11.8 -</td> <td>U16 18.2</td> <td>-</td> <td>0.8V</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>U22 22.5</td> <td>-</td> <td>1V</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>U38 19</td> <td>-</td> <td>1V</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>U47 45.7</td> <td>-</td> <td>2.5V</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>U150 150</td> <td>-</td> <td>1V</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>U200 204</td> <td>-</td> <td>10V</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						E PCB	D PCB						U5B 5 -	U5A 5.1					+0.12/-0.1V	U8 8 -	U5SB 5	-	0.25V				U9 9 -	U15 15	-	0.7V				U12 11.8 -	U16 18.2	-	0.8V					U22 22.5	-	1V					U38 19	-	1V					U47 45.7	-	2.5V					U150 150	-	1V					U200 204	-	10V			
E PCB	D PCB																																																																											
U5B 5 -	U5A 5.1					+0.12/-0.1V																																																																						
U8 8 -	U5SB 5	-	0.25V																																																																									
U9 9 -	U15 15	-	0.7V																																																																									
U12 11.8 -	U16 18.2	-	0.8V																																																																									
	U22 22.5	-	1V																																																																									
	U38 19	-	1V																																																																									
	U47 45.7	-	2.5V																																																																									
	U150 150	-	1V																																																																									
	U200 204	-	10V																																																																									

SELF CHECK

Self check is used to automatically check the Bus Lines and Hexadecimal code of the TV set.

To get into the Self Check mode press the Status button on the Remote Control at the same time pressing the -/v button on the customer controls at the front of the TV, and the screen will show:-

0	—	ok
1	—	ok
2	—	ok
3	—	ok
4	—	ok
5	—	ok
6	—	ok
7	—	ok

Test Byte

Lst Power

U5 Det

Protector

Not Used

Not Used

Not Used

Not Used

8	—	ok
9	—	ok
10	—	ok
11	—	ok
12	—	ok
13	—	ok
14	—	ok
15	—	ok

Col Decoder (M)

Clock generator

V+ Processor

DFU

Display Processor

RGB Processor

Deflection IC

MSP

16	—	--
17	—	--
18	—	ok
19	—	ok
20	—	ok
21	—	ok
22	—	ok
23	—	ok

Col Decoder (P)

Q+ PIP

Not Used

Not Used

EAROM

Audio Matrix

Video Matrix

Tuner

If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "OK".

Hex codes

09
73
E6
1F
BB
BB
03

RÉGLAGES

Préparation	Réglages																																												
Test de la tension d'alimentation. <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> </tr> <tr> <td>Contraste</td> <td>Minimum</td> </tr> <tr> <td>Volume</td> <td>Minimum</td> </tr> </table> 	Lumière	Minimum	Contraste	Minimum	Volume	Minimum	<p>1. Confirmer le réglage :</p> <table> <thead> <tr> <th>E PCB</th> <th>D PCB</th> </tr> </thead> <tbody> <tr> <td>U5B 5</td> <td>U5A 5.1</td> </tr> <tr> <td>U8 8</td> <td>U5SB 5</td> </tr> <tr> <td>U9 9</td> <td>U15 15</td> </tr> <tr> <td>U12 11.8</td> <td>U16 18.2</td> </tr> <tr> <td></td> <td>U22 22.5</td> </tr> <tr> <td></td> <td>U38 19</td> </tr> <tr> <td></td> <td>U47 45.7</td> </tr> <tr> <td></td> <td>U150 150</td> </tr> <tr> <td></td> <td>U200 204</td> </tr> <tr> <td></td> <td>- 0.1V</td> </tr> <tr> <td></td> <td>- 0.25V</td> </tr> <tr> <td></td> <td>- 0.7V</td> </tr> <tr> <td></td> <td>- 0.8V</td> </tr> <tr> <td></td> <td>- 1V</td> </tr> <tr> <td></td> <td>- 1V</td> </tr> <tr> <td></td> <td>- 2.5V</td> </tr> <tr> <td></td> <td>- 1V</td> </tr> <tr> <td></td> <td>- 10V</td> </tr> </tbody> </table>	E PCB	D PCB	U5B 5	U5A 5.1	U8 8	U5SB 5	U9 9	U15 15	U12 11.8	U16 18.2		U22 22.5		U38 19		U47 45.7		U150 150		U200 204		- 0.1V		- 0.25V		- 0.7V		- 0.8V		- 1V		- 1V		- 2.5V		- 1V		- 10V
Lumière	Minimum																																												
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	- 1V																																												
	- 2.5V																																												
	- 1V																																												
	- 10V																																												

AUTO TEST

L'auto test est utilisé pour vérifier le BUS et les codes Hexadécimaux du TV.

Pour rentrer dans le mode **Auto Test** presser le bouton Statu de la télécommande et simultanément le bouton :/v en face avant du TV. Le menu Auto Test s'affiche.:-

0	—	ok	Test Byte
1	—	ok	Lst Power
2	—	ok	U5 Det
3	—	ok	Protector
4	—	ok	Not Used
5	—	ok	Not Used
6	—	ok	Not Used
7	—	ok	Not Used

8	—	ok	Col Decoder (M)
9	—	ok	Clock generator
10	—	ok	V - Processor
11	—	ok	DFU
12	—	ok	Display Processor
13	—	ok	RGB Processor
14	—	ok	Deflection IC
15	—	ok	MSP

16	—	--	Col Decoder (P)
17	—	--	Qz - PIP
18	—	ok	Not Used
19	—	ok	Not Used
20	—	ok	EAROM
21	—	ok	Audio Matrix
22	—	ok	Video Matrix
23	—	ok	Tuner

Si les ports du CCU ont été testés et qu'ils soient incorrectes ou non identifiés lorsqu'il apparaît "—" au lieu de "OK".

Hex codes

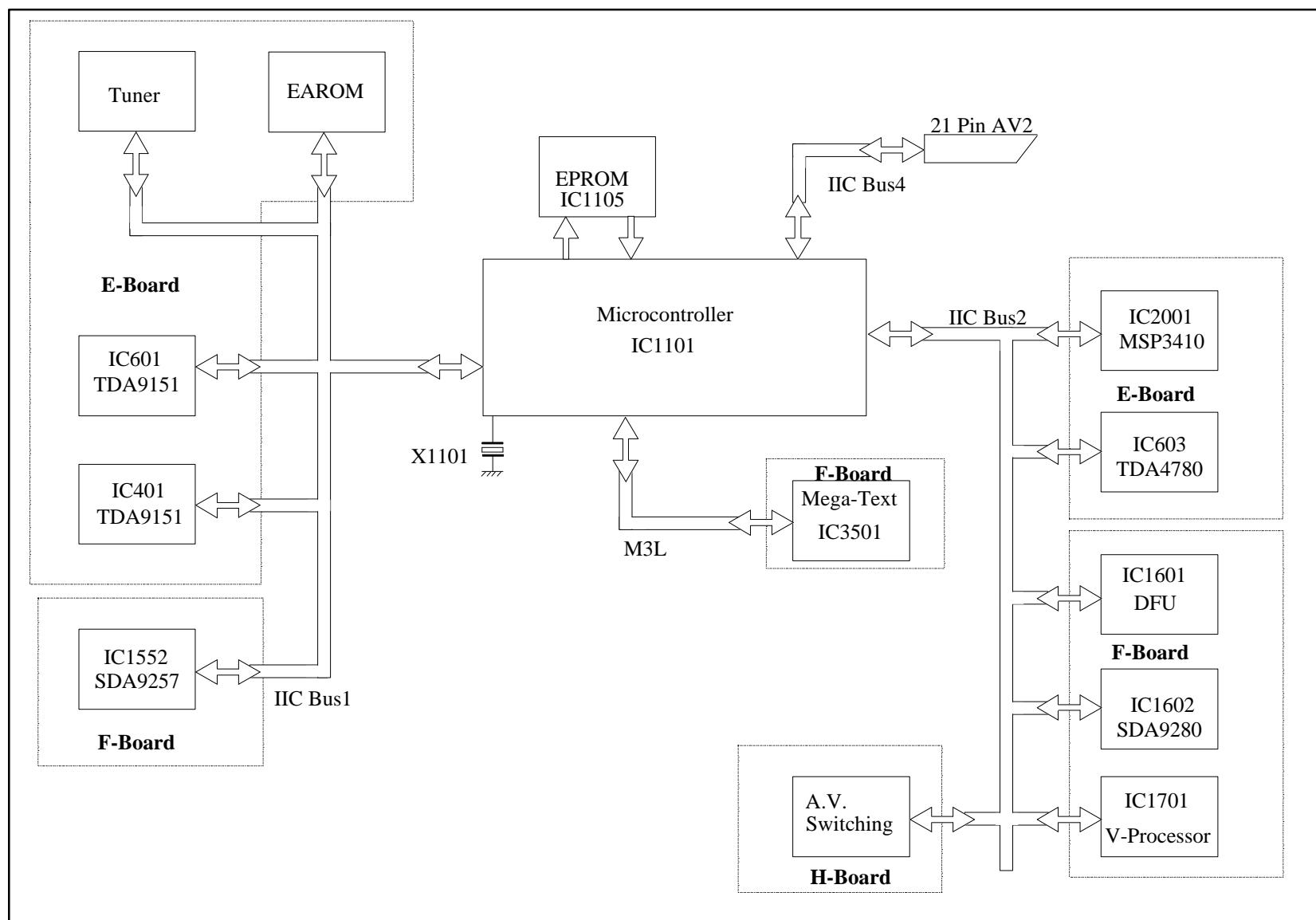
09
73
E6
1F
BB
BB
03

WAVEFORM PATTERN TABLE

TABLEAU DE MIRES DE FORMA D'ONDES

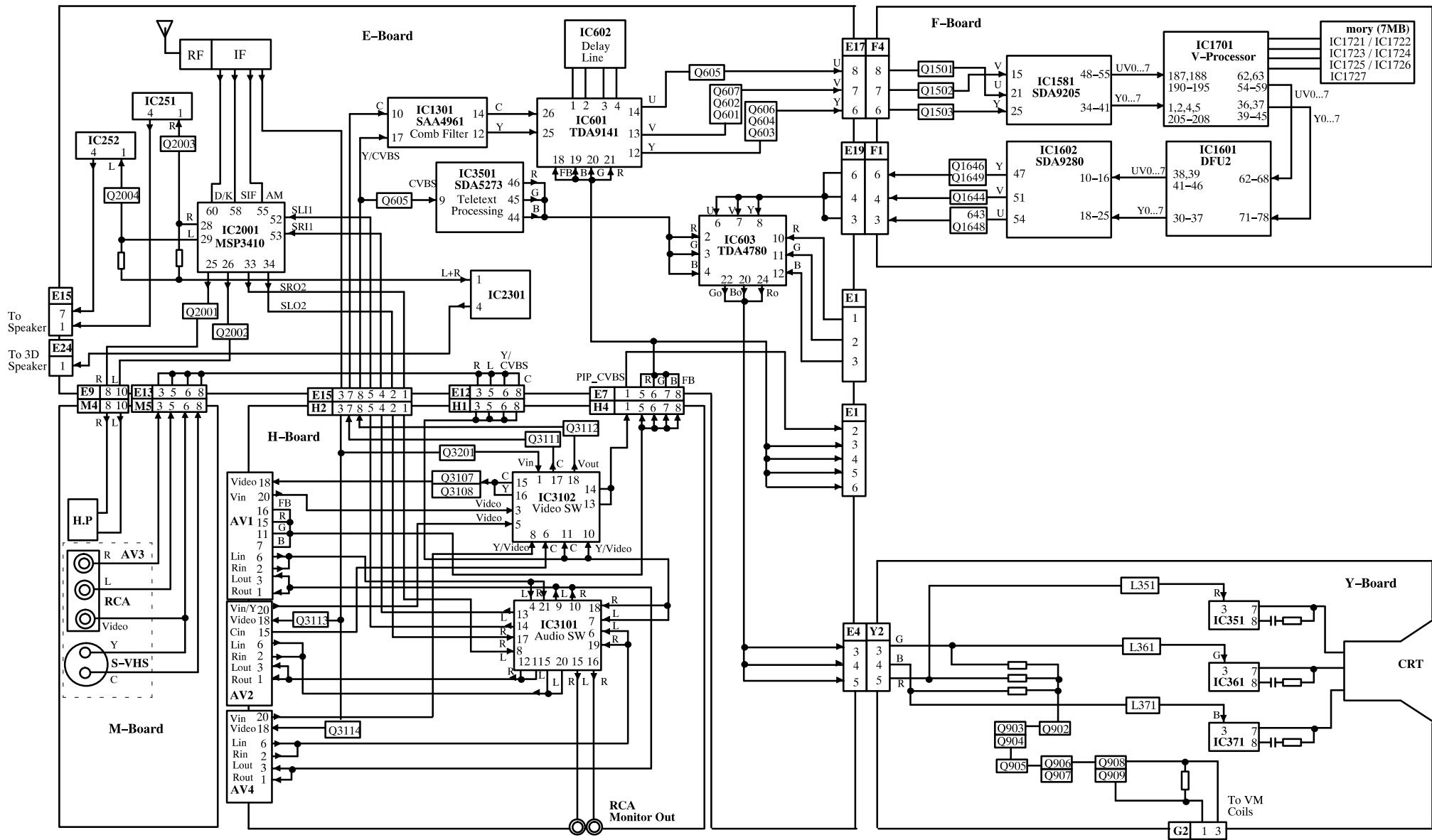
IC 3501 PIN 3 1ms	IC 3501 PIN 4 1ms	IC 601 PIN 25 5ms	IC 601 PIN 26 5ms
Q552 COLLECTOR 20ms	IC 603 PIN 20 5ms	IC 603 PIN 24 5ms	IC 603 PIN 22 5ms
Q502 COLLECTOR 64ms	IC 1801 PIN 10 20ms	IC 1803 PIN 12 20ms	IC 1803 PIN 1 20ms
IC 1841 PIN 10 5ms	IC 1801 PIN 26 5ms	IC 371 PIN 3 20ms	IC 351 PIN 3 20ms
IC 361 PIN 3 20ms	TPY1 5ms	TPY2 5ms	TPY3 5ms

CONTROL BLOCK DIAGRAM



VIDEO AND AUDIO SIGNAL PROCESSING BLOCK DIAGRAM

SINOPTIQUE VIDEO / AUDIO



SCHEMATIC DIAGRAM FOR MODELS
TX-29AD50F
TX-25AD50F
(Euro-3H Chassis)

IMPORTANT SAFETY NOTICE

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

Notes

1. RESISTOR

All resistors are carbon 1/4W resistor, unless marked as follows:
Unit of resistance is OHM (W) (K=1,000, M=1,000,000).

2. CAPACITORS

All capacitors are ceramic 50V, unless marked as follows:
Unit of capacitance is mF, unless otherwise stated.

3. COIL

Unit of inductance is mH, 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 DC voltmeter.

Measurement conditions are as follows:

Power source	AC 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

Indicates the Vertical/Horizontal path

9. This schematic diagram is the latest at the time of printing and is subject to change without notice.

Remarks

1. The Power 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:

Precautions

- Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- Do not short-circuit the hot and cold circuits as electrical components may be damaged.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.

SCHEMA TECHNIQUE POUR MODELE
TX-29AD50F
TX-25AD50F
(Euro-3H 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. RESISTOR

Toutes les résistances sont des résistances au carbone 1/4W, sauf indication contraire par les indications suivantes : L'unité de résistance est l'OHM (W) (K=1,000, M=1,000,000).

2. CONDENSATEUR

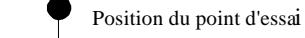
Toutes les condensateurs sont des condensateurs céramique 50V, sauf indication contraire par les indications suivantes : L'unité de capacité est le μ F, sauf indication contraire.

3. BOBINE

L'unité d'inductance est le μ H, 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)

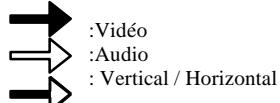
7. MESURE DE TENSION

La tension est mesurée avec un voltmètre c.c.

Les conditions de mesure sont les suivantes:

Source d'alimentation	CA 220V-240V, 50Hz
Signal de réception	Signal barre couleur (RF)
Toutes les commandes utilisateur	Position maximum

8.



:Vidéo

:Audio

:Vertical / Horizontal

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

Remarque

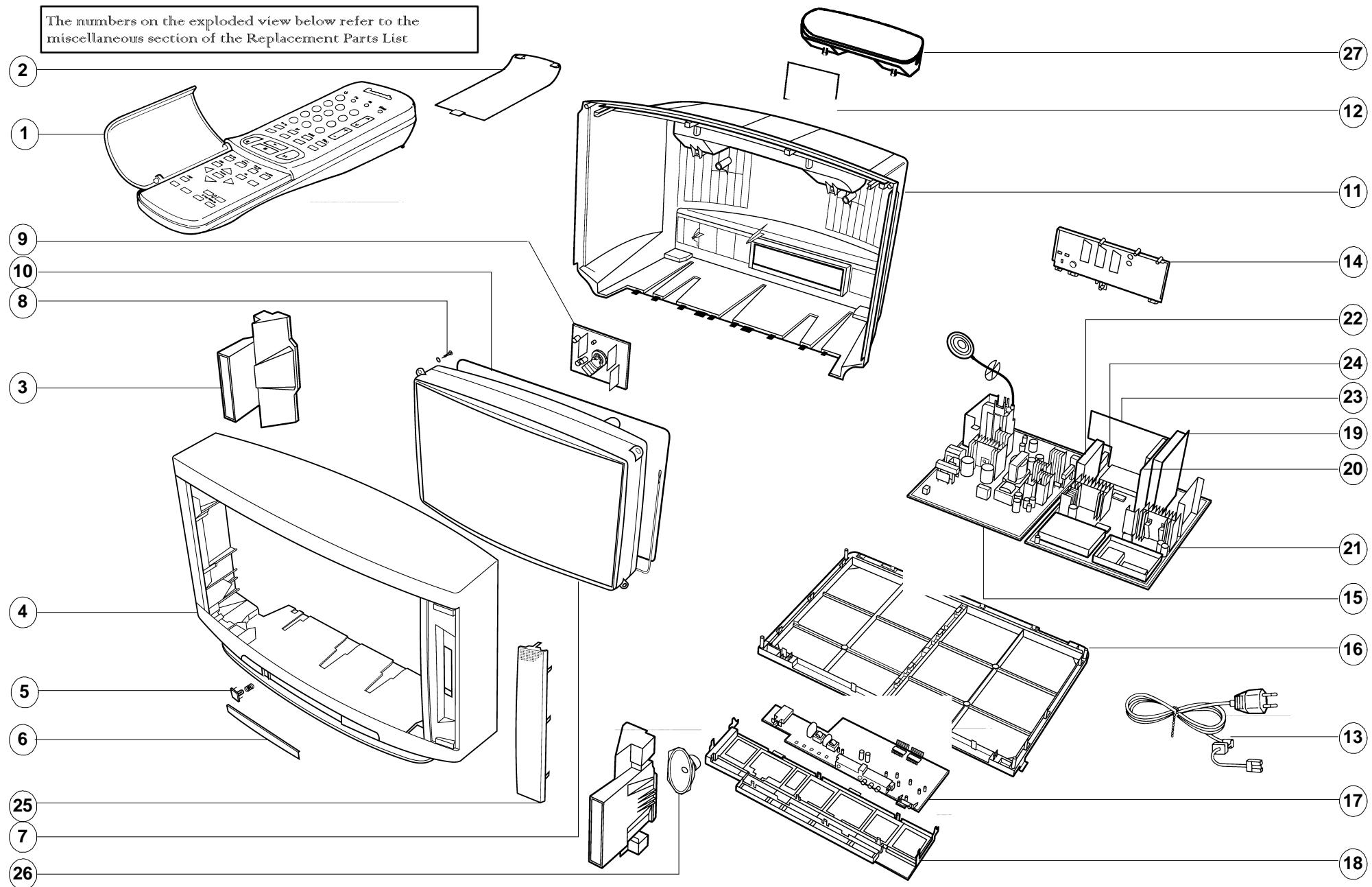
1. Le circuit d'alimentation contient une zone qui utilise une alimentation séparée pour isoler la connexion à la terre. Le circuit est défini par les indications chaud (HOT) et froid (COLD) dans le diagramme schématique. Prendre les précautions suivantes. Tous les circuits, sauf le circuit d'alimentation, sont froids.

Précautions

- Ne pas toucher la partie chaude ou en même temps les parties chaud et froide. Cela présente un risque de décharge électrique.
- Ne pas court-circuiter les circuits chaud et froid car un fusible peut sauter et des pièces se casser.
- Ne pas raccorder un instrument, comme un oscilloscope, simultanément aux circuits chaud et froid car un fusible peut sauter. Raccorder la terre des instruments à la connexion de terre du circuit mesuré.
- Toujours débrancher la fiche d'alimentation avant de déposer le châssis.

PARTS LOCATION

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



REPLACEMENT PARTS LIST

Important Safety Notice

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

LISTE DES PIÈCES DE RECHANGE

Remarque importante pour la sécurité

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

COMMON PARTS FOR TX-29AD50F AND TX-25AD50F

MISCELLANEOUS COMPONENTS

1)	EUR51923	REMOTE CONTROL
2)	UR51EC780	BATTERY COVER (REMOTE)
3)	TKK8E026	SPEAKER REFLECTOR
4)	*****	SEE DIFFERENCE LIST
5)	TBX8E033	POWER BUTTON
6)	TKP8E1149	LID
7)	*****	SEE DIFFERENCE LIST
8)	*****	SEE DIFFERENCE LIST
9)	*****	SEE DIFFERENCE LIST
10)	*****	SEE DIFFERENCE LIST
11)	TNPA0292AC	Y P.C.B.
12)	*****	SEE DIFFERENCE LIST
13)	*****	SEE DIFFERENCE LIST
14)	TKP8E1154	AV COVER
15)	*****	SEE DIFFERENCE LIST
16)	TMX8E014	CHASSIS FRAME
17)	TNPA0348AA	M P.C.B.
18)	TMW8E023	CONTROL BRACKET
19)	TNPA0294AA	F P.C.B.
20)	*****	SEE DIFFERENCE LIST
21)	TNPA0317AA	B P.C.B.
22)	ENV57D03G3	TUNER
23)	TNPA0293AB	H P.C.B.
24)	*****	SEE DIFFERENCE LIST
25)	EAGG1218E2	SPEAKER
26)	TSX8E0020	POWER LEAD
27)	EAB10102B2	LOUDSPEAKER
	TPD8E562	CUSHION
	TQB8E2215A-1	INST BOOK GERMAN
	TQB8E2215B-1	INST BOOK DUTCH
	TQB8E2215C-1	INST BOOK ITALIAN
	TQB8E2215D-1	INST BOOK FRENCH
	TQB8E2215E-1	INST BOOK SPANISH
	TQB8E2215F-1	INST BOOK SWEDISH
	TQB8E2215G-1	INST BOOK NORWEGIAN
	TQB8E2215H-1	INST BOOK SUOMI
	TQB8E2215J-1	INST BOOK PORTUGUESE
	TQB8E2215K-1	INST BOOK DANISH
	TMX8E015	PCB SUPPORT BRACKET
	TBM8E1532-1	IND SHEET
	TKP8E1150	FRONT PANEL LEFT
	TKP8E1161	FRONT PANEL RIGHT
	TMW8E017	L.E.D. HOLDER
	TEK6940	LID CATCHER
	UM-3DEP-2P	BATTERY
	832AG11D-ESL	I.C.SOCKET
	ERC12GK825	SOLID 0.5W 10% 8M2W
	PCS-068A-1	68 PIN I.C.SOCKET

CAPACITORS

C002	ECUV1H102JCX	S.M.CAP	50V	1nF
C003	ECA1HM101GB	ELECT	50V	100pF
C004	ECUV1H102JCX	S.M.CAP	50V	1nF

C005	ECUV1H102JCX	S.M.CAP	50V	1nF
C006	ECUV1H102JCX	S.M.CAP	50V	1nF
C007	ECUV1H102JCX	S.M.CAP	50V	1nF
C009	ECA1HM22GB	ELECT	50V	0.22mF
C010	ECUV1H102KBX	S.M.CAP	50V	1nF
C014	ECUV1H103ZFX	S.M.CAP	50V	10nF
C015	ECUV1H390JCX	S.M.CAP	50V	39pF
C016	ECUV1H390JCX	S.M.CAP	50V	39pF
C017	ECA1CM470GB	ELECT	16V	47mF
C019	ECUV1H561JCX	S.M.CAP	50V	560pF
C020	ECUV1H103ZFX	S.M.CAP	50V	10nF
C022	ECUV1H103ZFX	S.M.CAP	50V	10nF
C023	ECUV1H681JCX	S.M.CAP	50V	680pF
C024	ECUV1H103ZFX	S.M.CAP	50V	10nF
C025	ECUV1H101JCX	S.M.CAP	50V	100pF
C026	ECUV1H681JCX	S.M.CAP	50V	680pF
C101	ECUV1H104ZFX	S.M.CAP	50V	100nF
C106	ECUV1H104ZFX	S.M.CAP	50V	100nF
C108	ECUV1H104ZFX	S.M.CAP	50V	100nF
C109	ECUV1H104ZFX	S.M.CAP	50V	100nF
C111	ECUV1H103ZFX	S.M.CAP	50V	10nF
C113	ECUV1H393KBX	S.M.CAP	50V	39nF
C115	ECUV1H104ZFX	S.M.CAP	50V	100nF
C116	ECUV1H030CPX	S.M.CAP	50V	30pF
C117	ECUV1H070DTX	S.M.CAP	50V	70pF
C118	ECEA1CKA100	ELECT	16V	10mF
C120	ECEA1HKA2R2	ELECT	50V	2.2mF
C121	ECEA1HKA2R2	ELECT	50V	2.2mF
C122	ECUV1C105ZFX	S.M.CAP	16V	1000nF
C123	ECEA1HKA2R2	ELECT	50V	2.2mF
C124	ECUV1H471JCX	S.M.CAP	50V	470pF
C125	ECUV1H104ZFX	S.M.CAP	50V	100nF
C126	ECUV1H104ZFX	S.M.CAP	50V	100nF
C127	ECEA1CKA100	ELECT	16V	10mF
C128	ECUV1H102KBX	S.M.CAP	50V	1nF
C129	ECEA1CKA100	ELECT	16V	10mF
C130	ECUV1H104ZFX	S.M.CAP	50V	100nF
C131	ECUV1H102KBX	S.M.CAP	50V	1nF
C132	ECUV1H102KBX	S.M.CAP	50V	1nF
C133	ECUV1H102KBX	S.M.CAP	50V	1nF
C134	ECUV1H104ZFX	S.M.CAP	50V	100nF
C135	ECEA1CKA100	ELECT	16V	10mF
C136	ECUV1H104ZFX	S.M.CAP	50V	100nF
C137	ECUV1H100DCX	S.M.CAP	50V	10pF
C138	ECUV1H151JCX	S.M.CAP	50V	150pF
C139	ECUV1H104ZFX	S.M.CAP	50V	100nF
C140	ECUV1H151JCX	S.M.CAP	50V	150pF
C142	ECUV1H100DCX	S.M.CAP	50V	10pF
C143	ECUV1H220JCX	S.M.CAP	50V	22pF
C144	ECUV1H151JCX	S.M.CAP	50V	150pF
C145	ECUV1H151JCX	S.M.CAP	50V	150pF
C146	ECUV1H120JCX	S.M.CAP	50V	12pF
C148	ECUV1H103ZFX	S.M.CAP	50V	10nF
C150	ECEA1CKA100	ELECT	16V	10mF
C151	ECUV1H104ZFX	S.M.CAP	50V	100nF
C152	ECUV1H104ZFX	S.M.CAP	50V	100nF
C153	ECUV1H120JCX	S.M.CAP	50V	12pF
C158	ECUV1H103ZFX	S.M.CAP	50V	10nF

C159	ECUV1H080CCX	S.M.CAP	50V	80pF	C553	ECQP1104JZW	FILM	100V	0.10mF	
C251	ECQM1H474J	FILM	50V	470nF	C555	TAC4R6T472JC	CERAMIC	1500V	4.7nF	
C252	ECUV1H222JCX	S.M.CAP	50V	2.2nF	C556	ECEA2CNR47SB	ELECT	160V	R47mF	
C254	ECUV1H393K BX	S.M.CAP	50V	39nF	C557	ECKC2H331J	CERAMIC	500V	330pF	
C255	ECEA1CN100	ELECT	16V	10mF	C558	ECA2EM330B	ELECT	250V	33pF	
C256	ECA1HM330B	ELECT	50V	33pF	C559	ECKC2H101J	CERAMIC	500V	100pF	
C257	ECA1HM100GB	ELECT	50V	10pF	C560	ECA1EM332E	ELECT	25V	3.3nF	
C258	ECQM1H474J	FILM	50V	470nF	C561	ECKC2H561J	CERAMIC	500V	560pF	
C259	ECUV1H222JCX	S.M.CAP	50V	2.2nF	C562	ECA1JM220B	ELECT	63V	22pF	
C261	ECUV1H393K BX	S.M.CAP	50V	39nF	C563	TAC7A2D564JC	CERAMIC	200V	0.56mF	
C262	ECEA1CN100	ELECT	16V	10mF	C564	ECKC1H472J	CERAMIC	50V	4.7nF	
C263	ECA1HM330B	ELECT	50V	33pF	C565	ECQP1823JZW	FILM	100V	82nF	
C264	ECA1HM100GB	ELECT	50V	10pF	C571	ECQV1H105JZ	FILM	50V	1mF	
C267	ECUV1H103ZFX	S.M.CAP	50V	10nF	C572	TAC4R6T472JC	CERAMIC	1500V	4.7nF	
C268	ECUV1H223ZFX	S.M.CAP	50V	22nF	C573	ECQF4153JZH	FILM	400V	15nF	
C269	ECA1EM222GB	ELECT	25V	2.2nF	C574	TAC1114Z684A	CERAMIC	400V	0.68mF	
C270	ECA1EM222GB	ELECT	25V	2.2nF	C575	TAC1114Z684A	CERAMIC	400V	0.68mF	
C271	ECA1HM010GB	ELECT	50V	1pF	C581	ECQF4123JZH	FILM	400V	12nF	
C272	ECA1HM010GB	ELECT	50V	1pF	C584	ECKC3D221JB	CERAMIC	2.0KV	220pF	
C273	ECA1HM010GB	ELECT	50V	1pF	C585	ECKC3A471J	CERAMIC	1KV	470pF	
C274	ECA1HM010GB	ELECT	50V	1pF	C586	ECKC1H103JB	CERAMIC	50V	10nF	
C275	ECUV1C184KBX	S.M.CAP	16V	0.18mF	C601	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C276	ECUV1C184KBX	S.M.CAP	16V	0.18mF	C602	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C277	ECEA1HU471	ELECT	50V	470mF	C603	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C280	ECUV1H562KBX	S.M.CAP	50V	5.6nF	C604	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C281	ECUV1H561J CX	S.M.CAP	50V	560pF	C605	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C282	ECUV1H561J CX	S.M.CAP	50V	560pF	C606	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C283	ECUV1H561J CX	S.M.CAP	50V	560pF	C608	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C352	ECUV1H224ZFX	S.M.CAP	50V	0.22mF	C609	ECUV1H180J CX	S.M.CAP	50V	18pF	
C353	ECUV1H103KBX	S.M.CAP	50V	10nF	C610	ECUV1H150J CX	S.M.CAP	50V	15pF	
C354	ECKC2H103J	CERAMIC	50V	10nF	▲	C611	ECUV1H104ZFX	S.M.CAP	50V	100nF
C355	ECKC2H102J	CERAMIC	500V	1nF	▲	C612	ECUV1H332ZFX	S.M.CAP	50V	3.3nF
C362	ECUV1H224ZFX	S.M.CAP	50V	0.22mF	C613	ECUV1C474ZFX	S.M.CAP	16V	0.47mF	
C363	ECUV1H103KBX	S.M.CAP	50V	10nF	C614	ECUV1H332ZFX	S.M.CAP	50V	3.3nF	
C364	ECKC2H103J	CERAMIC	50V	10nF	▲	C615	ECUV1H104ZFX	S.M.CAP	50V	100nF
C365	ECKC2H102J	CERAMIC	500V	1nF	▲	C616	ECUV1H104ZFX	S.M.CAP	50V	100nF
C372	ECUV1H224ZFX	S.M.CAP	50V	0.22mF	C617	ECA1CM220GB	ELECT	16V	22mF	
C373	ECUV1H103KBX	S.M.CAP	50V	10nF	C618	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C374	ECKC2H103J	CERAMIC	50V	10nF	▲	C619	ECUV1H104ZFX	S.M.CAP	50V	100nF
C375	ECKC2H102J	CERAMIC	500V	1nF	▲	C620	ECUV1H104ZFX	S.M.CAP	50V	100nF
C381	ECA1HM101GB	ELECT	50V	100pF	C621	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C382	ECA0JM471GB	ELECT	6.3V	470pF	C622	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C383	ECUV1H103KBX	S.M.CAP	50V	10nF	C623	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C384	ECQM2104KZ	FILM	250V	100nF	C624	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C385	ECEA2EU220	ELECT	250V	22mF	C625	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C386	ECKC3D152J	CERAMIC	2KV	1.5nF	▲	C626	ECUV1H103ZFX	S.M.CAP	50V	10nF
C395	ECQM1H104J	FILM	50V	100nF	C627	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C402	ECUV1H104ZFX	S.M.CAP	50V	100nF	C628	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C403	ECA1AM332E	ELECT	10V	3.3nF	C629	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C404	ECUV1H104ZFX	S.M.CAP	50V	100nF	C630	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C405	ECUV1H104ZFX	S.M.CAP	50V	100nF	C631	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C406	ECUV1H471J CX	S.M.CAP	50V	470pF	C632	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C409	ECUV1H101J CX	S.M.CAP	50V	100pF	C633	ECUV1H470J CX	S.M.CAP	50V	47pF	
C413	ECUV1H561KBX	S.M.CAP	50V	560pF	C634	ECA1AM221GB	ELECT	10V	220pF	
C451	ECUV1H104ZFX	S.M.CAP	50V	100nF	C635	ECA1HM220GB	ELECT	50V	22pF	
C452	ECA1EM332E	ELECT	25V	3.3nF	C636	ECA1HM010GB	ELECT	50V	1pF	
C453	ECEA1HU101	ELECT	50V	100mF	C637	ECQM1H224J	FILM	50V	220nF	
C455	ECEA1HN100	ELECT	50V	10mF	C638	ECA1HM010GB	ELECT	50V	1pF	
C456	ECQV1104JZ3	FILM	100V	100nF	C639	ECQM1H224J	FILM	50V	220nF	
C457	ECUV1H102J CX	S.M.CAP	50V	1nF	C640	ECQM1H224J	FILM	50V	220nF	
C462	ECKC3A471J	CERAMIC	1KV	470pF	▲	C641	ECQM1H224J	FILM	50V	220nF
C463	ECUV1H102KBX	S.M.CAP	50V	1nF	C642	ECA1AM470GB	ELECT	10V	47pF	
C464	ECKC1H102J	CERAMIC	50V	1000pF	C643	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C501	ECQM1H224J	FILM	50V	220nF	C644	ECA1CM470GB	ELECT	16V	47mF	
C502	ECQM2683JZ	FILM	250V	68nF	C645	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C503	ECKC2H102J	CERAMIC	500V	1nF	▲	C646	ECUV1H104ZFX	S.M.CAP	50V	100nF
C504	ECQB1H223K	FILM	50V	22nF	C647	ECEA1CN470	ELECT	16V	47mF	
C506	ECKC2H102J	CERAMIC	500V	1nF	▲	C648	ECEA1CN470	ELECT	16V	47mF
C552	TAC4R6T392JC	CERAMIC	1500V	3.9nF	C651	ECUV1H820J CX	S.M.CAP	50V	82pF	

C654	ECUV1H393K BX	S.M.CAP	50V	39nF	C917	ECA1HM100GB	ELECT	50V	10pF	
C655	ECUV1E563K BX	S.M.CAP	25V	56nF	C918	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C657	ECUV1C474ZFX	S.M.CAP	16V	0.47mF	C919	ECCR2H680J	CERAMIC	500V	68pF	
C659	ECUV1H821K BX	S.M.CAP	50V	820pF	C1051	ECKC1H101J	CERAMIC	50V	100pF	
C661	ECUV1H103ZFX	S.M.CAP	50V	10nF	C1052	ECA1VM470B	ELECT	35V	47pF	
C662	ECUV1H470JCX	S.M.CAP	50V	47pF	C1053	ECKC1H103JB	CERAMIC	50V	10nF	
C663	ECUV1H150JCX	S.M.CAP	50V	15pF	C1102	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C703	ECUV1C224K BX	S.M.CAP	16V	220nF	C1103	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C752	ECKC2H103J	CERAMIC	50V	10nF	▲	C1104	ECA0JM101G	ELECT	6.3V	100pF
C803	ECQE2A474MWB	FILM	100V	0.47mF	C1105	ECUV1H330JCX	S.M.CAP	50V	33pF	
C804	222233510154			0.15mF	C1106	ECUV1H330JCX	S.M.CAP	50V	33pF	
C806	ECQE6104K	FILM	600V	100nF	▲	C1107	ECUV1H391JCX	S.M.CAP	50V	390pF
C807	ECQB1H473K	FILM	50V	47nF	C1108	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C808	ECQB1H333J	FILM	50V	33nF	C1109	ECUV1H472K BX	S.M.CAP	50V	4.7nF	
C810	222233510154			0.15mF	C1110	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C811	ECQB1H104J	FILM	50V	100nF	C1111	ECUV1H101JCX	S.M.CAP	50V	100pF	
C812	ECQB1H222J	FILM	50V	2200pF	C1112	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C813	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1114	ECUV1H102JCX	S.M.CAP	50V	1nF
C814	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1115	ECUV1H102JCX	S.M.CAP	50V	1nF
C815	ECA1CM331B	ELECT	16V	330pF	C1126	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C816	ECQB1H122J	FILM	50V	1.2nF	C1127	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C817	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1129	ECA1AM470GB	ELECT	10V	47pF
C818	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1130	ECUV1H104ZFX	S.M.CAP	50V	100nF
C819	ECOS2GA181DB	ELECT	400V	180pF	C1131	ECUV1H101JCX	S.M.CAP	50V	100pF	
C820	ECOS2GA181DB	ELECT	400V	180pF	C1133	ECUV1C184K BX	S.M.CAP	16V	0.18mF	
C821	ECQB1H222J	FILM	50V	2200pF	C1134	ECUV1H103K BX	S.M.CAP	50V	10nF	
C822	ECKC3D102J	CERAMIC	2KV	1nF	▲	C1135	ECUV1H103ZFX	S.M.CAP	50V	10nF
C823	EEUFA1V221B		35V	220pF	C1136	ECUV1H101JCX	S.M.CAP	50V	100pF	
C824	ECQB1H121KF3	FILM	50V	120pF	C1137	ECUV1H102K BX	S.M.CAP	50V	1nF	
C826	ECQB1H473K	FILM	50V	47nF	C1138	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C827	ECKCNS332J	CERAMIC	1.2KV	3.3nF	▲	C1302	ECUV1H150JCX	S.M.CAP	50V	15pF
C830	ECQE4105FW	FILM	400V	1mF	C1304	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C831	ECKC3D471JB	CERAMIC	2KV	470pF	▲	C1305	ECA1HM101GB	ELECT	50V	100pF
C833	ECQB1H682K	FILM	50V	6.8nF	C1306	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C834	ECQB1H471KF3	FILM	50V	470pF	C1307	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C835	ECQB1H152K	FILM	50V	1.5nF	C1308	ECA1HM101GB	ELECT	50V	100pF	
C849	ECKC2H471J	CERAMIC	500V	470pF	▲	C1309	ECUV1H104ZFX	S.M.CAP	50V	100nF
C851	ECQM1H104J	FILM	50V	100nF	C1310	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C852	ECKC3D102J	CERAMIC	2KV	1nF	▲	C1311	ECUV1H104ZFX	S.M.CAP	50V	100nF
C853	ECA1CM471GB	ELECT	16V	470pF	C1312	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C854	ECA1EM471GB	ELECT	25V	470pF	C1313	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C855	ECEA1HU102	ELECT	50V	1000mF	C1314	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C856	ECEA1HU471	ELECT	50V	470mF	C1315	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C857	ECA1EM471GB	ELECT	25V	470pF	C1316	ECA1HM101GB	ELECT	50V	100pF	
C858	ECOS2EA271BB	ELECT	250V	270pF	C1317	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C859	ECKC2H471J	CERAMIC	500V	470pF	▲	C1318	ECA1HM101GB	ELECT	50V	100pF
C861	ECOS2EA221AB	ELECT	250V	220mF	C1321	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C863	ECA1EM222GB	ELECT	25V	2.2nF	C1322	ECUV1H101JCX	S.M.CAP	50V	100pF	
C864	ECA0JM102GB	ELECT	6.3V	1nF	C1323	ECA1HM101GB	ELECT	50V	100pF	
C866	ECA1HM101GB	ELECT	50V	100pF	C1324	ECA1HM101GB	ELECT	50V	100pF	
C867	ECA1CM222GB	ELECT	16V	2200mF	C1325	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C868	ECA1CM100GB	ELECT	16V	10pF	C1326	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C871	ECA0JM102GB	ELECT	6.3V	1nF	C1327	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C872	ECA1CM222GB	ELECT	16V	2200mF	C1508	ECUV1H103K BX	S.M.CAP	50V	10nF	
C901	ECUV1H030CCX	S.M.CAP	50V	30pF	C1509	ECA1CM100GB	ELECT	16V	10pF	
C902	ECA1VM101GB	ELECT	35V	100pF	C1518	ECA1HM101GB	ELECT	50V	100pF	
C903	ECA1CM470GB	ELECT	16V	47mF	C1519	ECA1CM470GB	ELECT	16V	47mF	
C904	ECUV1H103ZFX	S.M.CAP	50V	10nF	C1520	ECA1CM470GB	ELECT	16V	47mF	
C905	ECA1CM100GB	ELECT	16V	10pF	C1521	ECUV1H390JCX	S.M.CAP	50V	39pF	
C906	ECUV1H151JCX	S.M.CAP	50V	150pF	C1524	ECUV1H221JCX	S.M.CAP	50V	220pF	
C908	ECUV1H151JCX	S.M.CAP	50V	150pF	C1525	ECUV1H391JCX	S.M.CAP	50V	390pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1528	ECUV1H390JCX	S.M.CAP	50V	39pF
C910	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1529	ECUV1H221JCX	S.M.CAP	50V	220pF
C911	ECUV1H151JCX	S.M.CAP	50V	150pF	C1531	ECUV1H391JCX	S.M.CAP	50V	390pF	
C912	ECEA2EU220	ELECT	250V	22mF	C1532	ECUV1H151JCX	S.M.CAP	50V	150pF	
C913	ECA1HM101GB	ELECT	50V	100pF	C1533	ECUV1H750JCX	S.M.CAP	50V	75pF	
C914	ECA1HM101GB	ELECT	50V	100pF	C1534	ECUV1H391JCX	S.M.CAP	50V	390pF	
C915	ECA1CM471GB	ELECT	16V	470pF	C1537	ECA0JM102GB	ELECT	6.3V	1nF	
C916	ECEA2EU220	ELECT	250V	22mF	C1552	ECUV1H104ZFX	S.M.CAP	50V	100nF	

C1554	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1724	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1555	ECA0JM331GB	ELECT	6.3V	330pF	C1725	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1556	ECUV1H270JCX	S.M.CAP	50V	27pF	C1726	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1557	ECUV1H270JCX	S.M.CAP	50V	27pF	C1727	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1559	ECUV1H103K BX	S.M.CAP	50V	10nF	C1728	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1560	ECUV1H103K BX	S.M.CAP	50V	10nF	C1729	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1561	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1730	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1562	ECA0JM331GB	ELECT	6.3V	330pF	C1731	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1564	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1732	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1575	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1733	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1576	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1734	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1577	ECA1CM470GB	ELECT	16V	47mF	C1735	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1579	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1736	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1580	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1740	ECUV1H102K BX	S.M.CAP	50V	1nF
C1583	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2001	ECA1CM100GB	ELECT	16V	10pF
C1584	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2002	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1585	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2003	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1586	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2004	ECUV1H102J CX	S.M.CAP	50V	1nF
C1588	ECA1CM470GB	ELECT	16V	47mF	C2005	ECUV1H391J CX	S.M.CAP	50V	390pF
C1590	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2006	ECUV1H391J CX	S.M.CAP	50V	390pF
C1591	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2007	ECUV1H102J CX	S.M.CAP	50V	1nF
C1592	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2008	ECUV1H102J CX	S.M.CAP	50V	1nF
C1593	ECA1CM470GB	ELECT	16V	47mF	C2009	ECUV1H102J CX	S.M.CAP	50V	1nF
C1594	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2010	ECUV1H102J CX	S.M.CAP	50V	1nF
C1595	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2011	ECUV1H102J CX	S.M.CAP	50V	1nF
C1596	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2012	ECUV1H102J CX	S.M.CAP	50V	1nF
C1599	ECA1CM470GB	ELECT	16V	47mF	C2014	ECQM1H334J	FILM	50V	330nF
C1601	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2017	ECA1CM100GB	ELECT	16V	10pF
C1602	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2018	ECA1CM100GB	ELECT	16V	10pF
C1603	ECUV1H103K BX	S.M.CAP	50V	10nF	C2019	ECA1HM101GB	ELECT	50V	100pF
C1604	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2020	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1605	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2021	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1606	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2022	ECA1HM3R3GB	ELECT	50V	3.3mF
C1607	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2023	ECUV1H471J CX	S.M.CAP	50V	470pF
C1608	ECA1CM470GB	ELECT	16V	47mF	C2024	ECUV1H471J CX	S.M.CAP	50V	470pF
C1610	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2025	ECUV1H221J CX	S.M.CAP	50V	220pF
C1611	ECUV1H103K BX	S.M.CAP	50V	10nF	C2026	ECUV1H221J CX	S.M.CAP	50V	220pF
C1612	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2027	ECUV1H221J CX	S.M.CAP	50V	220pF
C1613	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2028	ECUV1H221J CX	S.M.CAP	50V	220pF
C1614	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2029	ECUV1H221J CX	S.M.CAP	50V	220pF
C1615	ECUV1H101J CX	S.M.CAP	50V	100pF	C2030	ECUV1H221J CX	S.M.CAP	50V	220pF
C1616	ECUV1H152J CX	S.M.CAP	50V	1.5pF	C2031	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1617	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2032	ECA1CM100GB	ELECT	16V	10pF
C1618	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2034	ECUV1H070DCX	S.M.CAP	50V	7pF
C1619	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2035	ECUV1H560J CX	S.M.CAP	50V	56pF
C1620	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2036	ECUV1H100DCX	S.M.CAP	50V	10pF
C1621	ECA1CM470GB	ELECT	16V	47mF	C2037	ECUV1H220J CX	S.M.CAP	50V	22pF
C1622	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2039	ECUV1H070DCX	S.M.CAP	50V	7pF
C1625	ECA1CM470GB	ELECT	16V	47mF	C2040	ECUV1H560J CX	S.M.CAP	50V	56pF
C1641	ECA1CM470GB	ELECT	16V	47mF	C2041	ECUV1H560J CX	S.M.CAP	50V	56pF
C1642	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2042	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1670	ECUV1H560J CX	S.M.CAP	50V	56mF	C2043	ECA1CM100GB	ELECT	16V	10pF
C1701	ECA1CM470GB	ELECT	16V	47mF	C2044	ECUV1H030CPX	S.M.CAP	50V	30pF
C1702	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2045	ECUV1H030CCX	S.M.CAP	50V	30pF
C1703	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2050	ECUV1H223ZFX	S.M.CAP	50V	22nF
C1704	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2051	ECUV1H223ZFX	S.M.CAP	50V	22nF
C1705	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2052	ECUV1H103ZFX	S.M.CAP	50V	10nF
C1706	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2053	ECUV1H103ZFX	S.M.CAP	50V	10nF
C1707	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2054	ECA1CM331B	ELECT	16V	330pF
C1708	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2055	ECA1CM331B	ELECT	16V	330pF
C1709	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2058	ECUV1H683ZFX	S.M.CAP	50V	68nF
C1710	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2059	ECUV1H102K BX	S.M.CAP	50V	1nF
C1711	ECUV1H103K BX	S.M.CAP	50V	10nF	C2060	ECUV1H102K BX	S.M.CAP	50V	1nF
C1712	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2301	ECQM1H474J	FILM	50V	470nF
C1713	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2302	ECUV1H224ZFX	S.M.CAP	50V	0.22mF
C1714	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2303	ECUV1H101J CX	S.M.CAP	50V	100pF
C1721	ECA1CM470GB	ELECT	16V	47mF	C2304	ECEA1HN010UB	ELECT	50V	1mF
C1722	ECA1CM470GB	ELECT	16V	47mF	C2305	ECA1HM220GB	ELECT	50V	22pF
C1723	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2306	ECUV1H223ZFX	S.M.CAP	50V	22nF

C2307	ECUV1H223ZFX	S.M.CAP	50V	22nF	C3172	ECUV1H561JCX	S.M.CAP	50V	560pF
C2308	ECA1HM010GB	ELECT	50V	1pF	C3173	ECA1HMR47GB	ELECT	50V	0.47mF
C2309	ECUV1H393K BX	S.M.CAP	50V	39nF	C3174	ECUV1H561JCX	S.M.CAP	50V	560pF
C2310	ECUV1H393K BX	S.M.CAP	50V	39nF	C3178	ECUV1H561JCX	S.M.CAP	50V	560pF
C2311	ECA1HM101GB	ELECT	50V	100pF	C3180	ECA1HMR47GB	ELECT	50V	0.47mF
C2312	ECUV1H393K BX	S.M.CAP	50V	39nF	C3181	ERJ6GEY0R00	S.M.CARB	0.1W	5% 0W
C2313	ECUV1H393K BX	S.M.CAP	50V	39nF	C3182	ECUV1H102JCX	S.M.CAP	50V	1nF
C2314	ECA1HM100GB	ELECT	50V	10pF	C3183	ERJ6GEY0R00	S.M.CARB	0.1W	5% 0W
C2315	ECUV1H562K BX	S.M.CAP	50V	5.6nF	C3184	ECUV1H473K BX	S.M.CAP	50V	47nF
C2316	ECA1HM010GB	ELECT	50V	1pF	C3185	ERJ6GEY0R00	S.M.CARB	0.1W	5% 0W
C2317	ECA1HM010GB	ELECT	50V	1pF	C3186	ECEA1HNR47UB	ELECT	50V	0.47mF
C2318	ECUV1H050CCX	S.M.CAP	50V	5pF	C3187	ECA1HM470GB	ELECT	50V	47mF
C2319	ECUV1H103ZFX	S.M.CAP	50V	10nF	C3188	ECEA1CN470	ELECT	16V	47mF
C2320	ECUV1H102K BX	S.M.CAP	50V	1nF	C3190	ECA1HMR47GB	ELECT	50V	0.47mF
C2351	ECA1HM471GB	ELECT	50V	470pF	C3191	ECA1HM470GB	ELECT	50V	47mF
C2352	ECA1CM471GB	ELECT	16V	470pF	C3192	ECUV1H473K BX	S.M.CAP	50V	47nF
C2353	ECA1HM4R7GB	ELECT	50V	4.7mF	C3201	ECA1HM010GB	ELECT	50V	1pF
C2354	ECKC1H103J	CERAMIC	50V	10nF	C3202	ECUV1H473ZFX	S.M.CAP	50V	47nF
C2355	ECA1HMR33GB	ELECT	50V	0.33mF	C3203	ECA1CM100GB	ELECT	16V	10pF
C2356	ECKC1H103JB	CERAMIC	50V	10nF	C3204	ECUV1H473ZFX	S.M.CAP	50V	47nF
C2360	ECKC1H103JB	CERAMIC	50V	10nF	C3351	ECA1HM101GB	ELECT	50V	100pF
C2361	ECA1HM471GB	ELECT	50V	470pF	C3501	ECUV1H220JCX	S.M.CAP	50V	22pF
C2362	ECA1CM471GB	ELECT	16V	470pF	C3502	ECUV1H220JCX	S.M.CAP	50V	22pF
C2363	ECA1HM4R7GB	ELECT	50V	4.7mF	C3503	ECEA1HKN010	ELECT	50V	1mF
C2364	ECKC1H103J	CERAMIC	50V	10nF	C3504	ECUV1H224ZFX	S.M.CAP	50V	0.22mF
C2365	ECA1HMR33GB	ELECT	50V	0.33mF	C3510	ECUV1H103ZFX	S.M.CAP	50V	10nF
C2366	ECKC1H103JB	CERAMIC	50V	10nF	C3511	ECA1HM101GB	ELECT	50V	100pF
C3001	ECKC1H561J	CERAMIC	50V	560pF	C3512	ECUV1H104ZFX	S.M.CAP	50V	100nF
C3002	ECKC1H561J	CERAMIC	50V	560pF	C3514	ECUV1H104ZFX	S.M.CAP	50V	100nF
C3101	ECEA1HN4R7UB	ELECT	50V	4.7mF	C3515	ECA0JM331GB	ELECT	6.3V	330pF
C3102	ECA1HM470GB	ELECT	50V	47mF	C3516	ECUV1H104ZFX	S.M.CAP	50V	100nF
C3103	ECA1CM470GB	ELECT	16V	47mF	C3521	ECA1HM101GB	ELECT	50V	100pF
C3107	ECA1HM470GB	ELECT	50V	47mF	C3522	ECUV1H104ZFX	S.M.CAP	50V	100nF
C3108	ECA1CM470GB	ELECT	16V	47mF	C3801	ECA1HM010GB	ELECT	50V	1pF
C3111	ECUV1H102JCX	S.M.CAP	50V	1nF	C3802	ECUV1H104ZFX	S.M.CAP	50V	100nF
C3113	ECA1HM470GB	ELECT	50V	47mF	C3803	ECA1CM471GB	ELECT	16V	470pF
C3114	ECA1CM470GB	ELECT	16V	47mF	C3807	ECUV1H104ZFX	S.M.CAP	50V	100nF
C3115	ECEA1HNR47UB	ELECT	50V	0.47mF	C3808	ECUV1H104ZFX	S.M.CAP	50V	100nF
C3117	ECEA1HN4R7UB	ELECT	50V	4.7mF	C3809	ECA0JM101G	ELECT	6.3V	100pF
C3119	ECA1HM470GB	ELECT	50V	47mF	C3810	ECUV1H103K BX	S.M.CAP	50V	10nF
C3120	ECA1CM470GB	ELECT	16V	47mF	C3812	ECA1CM221GB	ELECT	16V	220pF
C3123	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3126	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3128	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3130	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3131	ECUV1H473K BX	S.M.CAP	50V	47nF	D001	MA4020	DIODE		
C3132	ECA1CM470GB	ELECT	16V	47mF	D002	MA4020	DIODE		
C3133	ECA1CM470GB	ELECT	16V	47mF	D103	BA582	DIODE		
C3134	ECA1CM470GB	ELECT	16V	47mF	D104	BA582	DIODE		
C3136	ECA1CM470GB	ELECT	16V	47mF	D251	MA165TA5	DIODE		
C3137	ECA1HM470GB	ELECT	50V	47mF	D252	MA165TA5	DIODE		
C3138	ECA1HM470GB	ELECT	50V	47mF	D253	MA165TA5	DIODE		
C3139	ECUV1H222JCX	S.M.CAP	50V	2.2nF	D254	MA165TA5	DIODE		
C3140	ECUV1H222JCX	S.M.CAP	50V	2.2nF	D351	ERA15-04V3	COIL		
C3143	ECUV1H561JCX	S.M.CAP	50V	560pF	D352	ERA15-04V3	COIL		
C3146	ECUV1H561JCX	S.M.CAP	50V	560pF	D361	ERA15-04V3	COIL		
C3148	ECA1HM4R7GB	ELECT	50V	4.7mF	D362	ERA15-04V3	COIL		
C3149	ECUV1H561JCX	S.M.CAP	50V	560pF	D371	ERA15-04V3	COIL		
C3150	ECA1HM4R7GB	ELECT	50V	4.7mF	D372	ERA15-04V3	COIL		
C3151	ECUV1H561JCX	S.M.CAP	50V	560pF	D387	MA2160LFS	DIODE		
C3154	ECUV1H104ZFX	S.M.CAP	50V	100nF	D401	MA167TA5	DIODE		
C3156	ECA1CM470GB	ELECT	16V	47mF	D451	MA4056	DIODE		
C3158	ECUV1H102JCX	S.M.CAP	50V	1nF	D452	MA2330-ALF	DIODE		
C3160	ECUV1H104ZFX	S.M.CAP	50V	100nF	D453	TVSEM01ZV0	DIODE		
C3162	ECA1CM471GB	ELECT	16V	470pF	D502	1SS254T-77	DIODE		
C3163	ECA1HMR47GB	ELECT	50V	0.47mF	D503	EU02	DIODE		
C3165	ECA1HM470GB	ELECT	50V	47mF	D504	EU02	DIODE		
C3169	ECUV1H102JCX	S.M.CAP	50V	1nF	D531	1SS254T-77	DIODE		
C3170	ECUV1H561JCX	S.M.CAP	50V	560pF	D532	1SS254T-77	DIODE		

DIODES

D533	1SS254T-77	DIODE		D3101	PMLL5242B	DIODE	
D551	EU02	DIODE		D3102	PMLL5242B	DIODE	
D556	AU02V0	DIODE		D3103	PMLL5242B	DIODE	
D557	ERC91-02J5	DIODE		D3105	PMLL5242B	DIODE	
D558	AU02V0	DIODE		D3107	PMLL5242B	DIODE	
D559	MTZJT-7736A	DIODE		D3109	PMLL5242B	DIODE	
D560	1SS252T-77	DIODE		D3110	PMLL5242B	DIODE	
D561	1SS254T-77	DIODE		D3111	PMLL5242B	DIODE	
D562	ERB0615	DIODE		D3112	PMLL5242B	DIODE	
D571	FMV-3GULF027	DIODE		D3115	PMLL5242B	DIODE	
D574	1SS252T-77	DIODE		D3117	PMLL5242B	DIODE	
D575	1SS252T-77	DIODE		D3120	RLS72TE-11	DIODE	
D602	MA165TA5	DIODE		D3351	1SS254T-77	DIODE	
D603	MA165TA5	DIODE		D3501	MA4030	DIODE	
D604	MA4062	DIODE		D3801	MA4043	DIODE	
D706	MA165TA5	DIODE		D3802	MA4075	DIODE	
D707	MA188TA	DIODE		D3803	ERA81004V3	RESISTOR 81W 5% 4.0KW	
D803	MTZJT-7711C	DIODE		D3805	MA4091	DIODE	
D806	TF361MALF3	DIODE		D3806	MA165TA5	DIODE	
D807	RBV-608LF-B	DIODE		D3807	MA165TA5	DIODE	
D808	1SS254T-77	DIODE					
D809	ERA22-02V3	DIODE					
D810	MA2160LFS	DIODE					
D812	MTZJT-775.6B	DIODE					
D813	MA700TA5	DIODE		F532	TR5-T1250	FUSE	▲
D814	AU01ZV0	DIODE		F801	XBA2C50TH15	FUSE	
D815	PC123FY2	DIODE		F845	TR5-T2000	FUSE	▲
D817	D5L60F4015	DIODE		F846	TR5-T1250	FUSE	▲
D818	TMPG10G3	DIODE		F8011	EYF52BC	FUSE HOLDER	
D819	ERA81004V3	RESISTOR 81W 5% 4.0KW		F8012	EYF52BC	FUSE HOLDER	
D820	MA4100	DIODE					
D821	EU02AV0	DIODE					
D822	MTZJT-7718C	DIODE					
D845	1SS254T-77	DIODE					
D846	TVSS1WBS20	DIODE		IC101	TDA9814TV3	VIF	
D847	ERA15-01V1	DIODE		IC1051	RPM-637CBRS1	LED RECEIVER	
D848	ERB32-02E	DIODE		IC1101	SDA30C164-2	MICRO PROCESSOR	
D849	FMGG26S	DIODE		IC1102	S-80745AL-Z	RESET	
D850	EU02	DIODE		IC1103	MN1280R	RESET	
D851	FMGG2CS	DIODE		IC1301	SAA4961	COMB FILTER	
D852	MA4091	DIODE		IC1551	SN74F04DR	CLOCK BUFFER	
D853	1SS254T-77	DIODE		IC1552	SDA9257	CLOCK GENERATOR	
D854	1SS254T-77	DIODE		IC1581	SDA9205-2GEG	A/D CONVERTER	
D855	D10SC6MRL	DIODE		IC1601	UPD93213GF	DFU	
D857	FML22SLF610	DIODE		IC1602	SDA9280GEG	VISUAL PROCESSOR	
D860	1SS254T-77	DIODE		IC1701	MB87D202A	VIDEO PROCESSOR	
D861	MTZJT-7713B	DIODE		IC1721	SDA9251-2XGE	RAM	
D901	1SS254T-77	DIODE		IC1722	SDA9251-2XGE	RAM	
D902	1SS254T-77	DIODE		IC1723	SDA9251-2XGE	RAM	
D903	1SS254T-77	DIODE		IC1724	SDA9251-2XGE	RAM	
D1051	LN81RPHL	DIODE		IC1725	SDA9251-2XGE	RAM	
D1052	AU01V0	DIODE		IC1726	SDA9251-2XGE	RAM	
D1053	AU01V0	DIODE		IC1727	SDA9251-2XGE	RAM	
D1054	AU01V0	DIODE		IC2001	MSP3410BPPF7	AUDIO PROCESSOR	
D1055	AU01V0	DIODE		IC2301	TDA2030AV	AUDIO AMPLIFIER	
D1056	AU01V0	DIODE		IC2302	BA15218	DIODE	
D1057	AU01V0	DIODE		IC251	TDA2030AV	AUDIO AMPLIFIER	
D1102	MA4051	DIODE		IC252	TDA2030AV	AUDIO AMPLIFIER	
D1107	MTZJT-775.6A	DIODE		IC3101	TEA6420	AUDIO SWITCH	
D1108	1SS254T-77	DIODE		IC3102	TEA6415C	VIDEO SWITCH	
D1109	1SS254T-77	DIODE		IC3501	SDA5273S	MEGA TEXT	
D1113	MA4051	DIODE		IC3502	M514256B70RS	DRAM	
D1552	RLS72TE-11	DIODE		IC351	TDA6111	RGB OUTPUT	
D2005	MA723TA5	DIODE		IC361	TDA6111	RGB OUTPUT	
D2006	MA723TA5	DIODE		IC371	TDA6111	RGB OUTPUT	
D2301	MA165TA5	DIODE		IC3801	AN7808LB	8V REGULATOR	
D2302	MA165TA5	DIODE		IC3803	AN7805LB	5V REGULATOR	
D2303	MA165TA5	DIODE		IC3804	AN7809FLB	9V REGULATOR	
D2304	MA165TA5	DIODE		IC3805	AN78L08TA	8V REGULATOR	

FUSES

▲

INTEGRATED CIRCUITS

D846	TVSS1WBS20	DIODE		IC101	TDA9814TV3	VIF	
D847	ERA15-01V1	DIODE		IC1051	RPM-637CBRS1	LED RECEIVER	
D848	ERB32-02E	DIODE		IC1101	SDA30C164-2	MICRO PROCESSOR	
D849	FMGG26S	DIODE		IC1102	S-80745AL-Z	RESET	
D850	EU02	DIODE		IC1103	MN1280R	RESET	
D851	FMGG2CS	DIODE		IC1301	SAA4961	COMB FILTER	
D852	MA4091	DIODE		IC1551	SN74F04DR	CLOCK BUFFER	
D853	1SS254T-77	DIODE		IC1552	SDA9257	CLOCK GENERATOR	
D854	1SS254T-77	DIODE		IC1581	SDA9205-2GEG	A/D CONVERTER	
D855	D10SC6MRL	DIODE		IC1601	UPD93213GF	DFU	
D857	FML22SLF610	DIODE		IC1602	SDA9280GEG	VISUAL PROCESSOR	
D860	1SS254T-77	DIODE		IC1701	MB87D202A	VIDEO PROCESSOR	
D861	MTZJT-7713B	DIODE		IC1721	SDA9251-2XGE	RAM	
D901	1SS254T-77	DIODE		IC1722	SDA9251-2XGE	RAM	
D902	1SS254T-77	DIODE		IC1723	SDA9251-2XGE	RAM	
D903	1SS254T-77	DIODE		IC1724	SDA9251-2XGE	RAM	
D1051	LN81RPHL	DIODE		IC1725	SDA9251-2XGE	RAM	
D1052	AU01V0	DIODE		IC1726	SDA9251-2XGE	RAM	
D1053	AU01V0	DIODE		IC1727	SDA9251-2XGE	RAM	
D1054	AU01V0	DIODE		IC2001	MSP3410BPPF7	AUDIO PROCESSOR	
D1055	AU01V0	DIODE		IC2301	TDA2030AV	AUDIO AMPLIFIER	
D1056	AU01V0	DIODE		IC2302	BA15218	DIODE	
D1057	AU01V0	DIODE		IC251	TDA2030AV	AUDIO AMPLIFIER	
D1102	MA4051	DIODE		IC252	TDA2030AV	AUDIO AMPLIFIER	
D1107	MTZJT-775.6A	DIODE		IC3101	TEA6420	AUDIO SWITCH	
D1108	1SS254T-77	DIODE		IC3102	TEA6415C	VIDEO SWITCH	
D1109	1SS254T-77	DIODE		IC3501	SDA5273S	MEGA TEXT	
D1113	MA4051	DIODE		IC3502	M514256B70RS	DRAM	
D1552	RLS72TE-11	DIODE		IC351	TDA6111	RGB OUTPUT	
D2005	MA723TA5	DIODE		IC361	TDA6111	RGB OUTPUT	
D2006	MA723TA5	DIODE		IC371	TDA6111	RGB OUTPUT	
D2301	MA165TA5	DIODE		IC3801	AN7808LB	8V REGULATOR	
D2302	MA165TA5	DIODE		IC3803	AN7805LB	5V REGULATOR	
D2303	MA165TA5	DIODE		IC3804	AN7809FLB	9V REGULATOR	
D2304	MA165TA5	DIODE		IC3805	AN78L08TA	8V REGULATOR	

IC401	TDA9151-B	DEFLECTION CONTROL		LC1601	ELKTR391CA	DELAY LINE
IC451	TDA8350Q-N4	VERTICAL OUTPUT		LC1602	ELKTR391CA	DELAY LINE
IC601	TDA9143-N1	COLOUR DECODER		LC1603	ELKTR391CA	DELAY LINE
IC602	TDA4665-V4	DELAY LINE		LC1606	ELKTR391CA	DELAY LINE
IC603	TDA4780	RGB VIDEO PROCESSOR		LC1607	ELKTR391CA	DELAY LINE
IC845	SE140N	ERROR AMPLIFIER		LC1609	ELKTR560BA	DELAY LINE
IC851	TL431ACLPM	COIL		L002	TLT047K991R	COIL
IC852	TL431ACLPM	COIL		L004	TLT047K991R	COIL
				L005	TLT047K991R	COIL
				L102	TLT056K991R	COIL

TERMINALS AND LINKS

JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L107	ELESNR22MA	COIL			
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L108	ELESNR22MA	COIL			
JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L109	EIL7EN015Q	COIL			
JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L110	EQL7EN022Q	COIL			
JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L252	EXCELSA35T	COIL			
JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L253	EXCELSA35T	COIL			
JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L254	EXCELSA35T	COIL			
JK3001	TJB16656	A.V.TERMINAL				L255	EXCELSA35T	COIL			
JSB3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L351	SDL5000	DELAY LINE			
JSE010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L352	EXCELDR25V	COIL			
JSE011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L353	TLT150K991R	COIL			
JSE012	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L361	SDL5000	DELAY LINE			
JSE015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L362	EXCELDR25V	COIL			
JSE022	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L363	TLT150K991R	COIL			
JSE023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L371	SDL5000	DELAY LINE			
JSE024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L372	EXCELDR25V	COIL			
JSE025	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L373	TLT150K991R	COIL			
JSE028	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L381	TLT220K991R	COIL			
JSE042	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L401	EXCELDR35V	COIL			
JSE050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L402	EXCELDR35V	COIL			
JSE056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L451	EXCELDR35V	COIL			
JSE057	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L552	EXCELSA35T	COIL			
JSE058	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L553	EXCELSA35T	COIL			
JSE062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L554	EXCELDR35V	COIL			
JSE064	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L555	EXCELDR35C	COIL			
JSE09	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L572	ELHKLB025B	COIL			
JSF001	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L573	ELHKLB026B	COIL			
JSF002	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L575	ELC18B271E	COIL			
JSF004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L601	TLT047K991R	COIL			
JSF005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L602	TLT047K991R	COIL			
JSF015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L603	TLT047K991R	COIL			
JSF026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L605	ERD25TC0T	CARBON	0.25W	5%	0W
JSF038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L801	ELF18D486D	COIL			
JSF041	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L802	ELF18D486D	COIL			
JSF046	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L807	ELF18D856A	COIL			
JSF049	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L808	EXCELSA35T	COIL			
JSF050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L809	EXCELDR35C	COIL			
JSF054	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L810	EXCELSA39V	COIL			
JSF056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L811	EXCELSA39V	COIL			
JSF059	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L812	EXCELDR35V	COIL			
JSF061	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L813	EXCELDR35V	COIL			
JSF062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L817	EXCELDR35V	COIL			
JSH004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L845	EXCELSA35T	COIL			
JSH005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L847	EXCELSA35B	COIL			
JSH01	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L848	EXCELSA35T	COIL			
JSH010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L850	EXCELSA35T	COIL			
JSH02	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L851	EXCELSA35B	COIL			
J103	T3A206022	WIRE LINK				L852	EXCELSA35T	COIL			
						L853	EXCELSA35T	COIL			
						L854	ELEIE150KA	COIL			
						L856	EXCELSA35T	COIL			
						L861	EXCELSA35T	COIL			

COILS

LC1503	ELKTR391CA	DELAY LINE		L862	EXCELSA35T	COIL
LC1507	EXCEMT103DTM	COIL		L1102	EXCELDR35V	COIL
LC1508	EXCEMT103DTM	COIL		L1103	EXCELDR35V	COIL
LC1509	EXCEMT103DTM	COIL		L1104	EXCELSA35T	COIL
LC1510	EXCEMT103DTM	COIL		L1105	ELEXTR4R7KA	COIL

L1301	TLT330K991R	COIL			Q532	BC547B	TRANSISTOR
L1302	TLT100K991R	COIL			Q533	BC547B	TRANSISTOR
L1303	TLT101K991R	COIL			Q535	BC547B	TRANSISTOR
L1304	TLT100K991R	COIL			Q551	BC547B	TRANSISTOR
L1306	TLT101K991R	COIL			Q552	2SC5144LBMA1	TRANSISTOR
L1307	ERD25TC0T	CARBON	0.25W	5%	Q553	2SC1473-RN	TRANSISTOR
L1501	EXCELDR35V	COIL			Q554	2SC1473-RN	TRANSISTOR
L1502	TLT033K991R	COIL			Q573	BC557B	TRANSISTOR
L1503	TLT033K991R	COIL			Q574	2SD1265AOPLB	TRANSISTOR
L1504	TLT033K991R	COIL			Q601	BC847B	TRANSISTOR
L1552	EXCELDR35V	COIL			Q602	BC857B	TRANSISTOR
L1553	EXCELDR35V	COIL			Q603	BC847B	TRANSISTOR
L1575	EXCELDR35V	COIL			Q604	BC857B	TRANSISTOR
L1576	EXCELDR35V	COIL			Q605	BC857B	TRANSISTOR
L1601	EXCELDR35V	COIL			Q607	BC847B	TRANSISTOR
L1602	EXCELDR35V	COIL			Q608	BC847B	TRANSISTOR
L1603	TLT100K991R	COIL			Q609	BC847B	TRANSISTOR
L1604	TLT100K991R	COIL			Q610	BC847B	TRANSISTOR
L1605	TLT100K991R	COIL			Q611	BC847B	TRANSISTOR
L1606	TLT100K991R	COIL			Q612	BC847B	TRANSISTOR
L1607	EXCELDR35V	COIL			Q801	2SK1489MAT	TRANSISTOR
L1641	EXCELDR35V	COIL			Q803	2SD965-R	TRANSISTOR
L1701	EXCELDR35V	COIL			Q804	2SA719-TA	TRANSISTOR
L1721	EXCELDR35V	COIL			Q845	2SA684R	TRANSISTOR
L1722	EXCELDR35V	COIL			Q846	BC547B	TRANSISTOR
L2001	TLT047K991R	COIL			Q847	BC557B	TRANSISTOR
L2002	TLT100K991R	COIL			Q848	BC547B	TRANSISTOR
L2003	EXCELDR35V	COIL			Q849	2SA1018QTA	TRANSISTOR
L2004	TLT068K991R	COIL			Q850	2SD1474PLB	TRANSISTOR
L2005	TLT068K991R	COIL			Q851	BC547B	TRANSISTOR
L2303	EXCELDR35V	COIL			Q852	BC547B	TRANSISTOR
L2319	TLS159054E	COIL			Q901	BC847B	TRANSISTOR
L2320	TLS159054E	COIL			Q902	BC847B	TRANSISTOR
L2351	ELEBR6R8KA	COIL			Q903	BC847B	TRANSISTOR
L2361	ELEBR6R8KA	COIL			Q904	BC857B	TRANSISTOR
L3001	ELEBR6R8KA	COIL			Q905	BC847B	TRANSISTOR
L3002	ELEBR6R8KA	COIL			Q906	BC847B	TRANSISTOR
L3003	ELEBR470KA	COIL			Q907	BC857B	TRANSISTOR
L3107	EXCELDR35V	COIL			Q908	2SA1535ARLB	TRANSISTOR
L3108	EXCELDR35V	COIL			Q909	2SC3944ARLB	TRANSISTOR
L3109	EXCELDR35V	COIL			Q1052	BC557B	TRANSISTOR
L3110	EXCELDR35V	COIL			Q1101	BC847B	TRANSISTOR
L3111	EXCELDR35V	COIL			Q1102	BC847B	TRANSISTOR
L3112	EXCELDR35V	COIL			Q1103	BC847B	TRANSISTOR
L3113	EXCELDR35V	COIL			Q1108	BC847B	TRANSISTOR
L3114	EXCELDR35V	COIL			Q1112	2SC3757QRTX	TRANSISTOR
L3503	EXCELDR35V	COIL			Q1191	BC847B	TRANSISTOR
L3507	EXCELDR35V	COIL			Q1301	BC847B	TRANSISTOR
L3509	EXCELDR35V	COIL			Q1303	BC847B	TRANSISTOR
L3511	TLT100K991R	COIL			Q1304	BC847B	TRANSISTOR
					Q1501	BC847B	TRANSISTOR
					Q1502	BC847B	TRANSISTOR
					Q1503	BC847B	TRANSISTOR
					Q1575	BC847B	TRANSISTOR

TRANSISTORS

Q008	BC847B	TRANSISTOR			Q1642	BC847B	TRANSISTOR
Q101	BC847B	TRANSISTOR			Q1643	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR			Q1644	BC857B	TRANSISTOR
Q103	BC847B	TRANSISTOR			Q1647	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR			Q1648	BC857B	TRANSISTOR
Q105	BC847B	TRANSISTOR			Q1649	BC857B	TRANSISTOR
Q106	BF799E6327	TRANSISTOR			Q2001	BC860B	TRANSISTOR
Q107	BC847B	TRANSISTOR			Q2002	BC860B	TRANSISTOR
Q108	BC847B	TRANSISTOR			Q2003	BC860B	TRANSISTOR
Q109	BC860B	TRANSISTOR			Q2004	BC860B	TRANSISTOR
Q251	BC847B	TRANSISTOR			Q2006	BC857B	TRANSISTOR
Q252	BC847B	TRANSISTOR			Q2007	BC847B	TRANSISTOR
Q401	BC847B	TRANSISTOR			Q2301	BC847B	TRANSISTOR
Q502	2SC2925STA	TRANSISTOR			Q2302	BC857B	TRANSISTOR
Q531	BC547B	TRANSISTOR			Q2351	BC547B	TRANSISTOR

Q2352	BC547B	TRANSISTOR		R148	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW
Q2353	BC557B	TRANSISTOR		R149	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W
Q2361	BC547B	TRANSISTOR		R150	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
Q2362	BC547B	TRANSISTOR		R151	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
Q2363	BC557B	TRANSISTOR		R152	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
Q3101	BC847B	TRANSISTOR		R154	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
Q3102	BC847B	TRANSISTOR		R156	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
Q3105	BC847B	TRANSISTOR		R157	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
Q3106	BC847B	TRANSISTOR		R159	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
Q3107	BC857B	TRANSISTOR		R251	ERJ6GEYJ2R2	S.M.CARB	0.125W	5%	2R2W
Q3108	BC847B	TRANSISTOR		R252	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
Q3113	BC847B	TRANSISTOR		R253	ERJ6GEYJ0R00V	S.M.CARB	0.1W	5%	0W
Q3115	BC857B	TRANSISTOR		R254	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW
Q3201	BC847B	TRANSISTOR		R255	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W
Q3351	BC847B	TRANSISTOR		R256	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
Q3352	BC857B	TRANSISTOR		R257	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
Q3501	BC847B	TRANSISTOR		R258	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
Q3502	BC847B	TRANSISTOR		R259	ERG3SJ102	METAL	3W	5%	1.0KW Δ
Q3503	2SC3130TX	TRANSISTOR		R260	ERJ6GEYJ2R2	S.M.CARB	0.125W	5%	2R2W
Q3801	2SD1474PLB	TRANSISTOR		R261	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
RESISTOR									
RL806	TSE1885-1	TRANSISTOR		R266	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R003	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW				
R006	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW				
R011	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W				
R012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W				
R101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW				
R102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W				
R103	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW				
R104	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W				
R105	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W				
R106	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W				
R107	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW				
R109	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW				
R110	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW				
R111	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W				
R113	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W				
R115	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W				
R117	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68KW				
R118	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W				
R119	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W				
R120	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW				
R121	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W				
R122	EVNDXAA03B24	CONTROL		R362	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R123	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW				
R124	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW				
R125	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W				
R126	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW				
R127	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW				
R128	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W				
R130	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W				
R132	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W				
R133	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W				
R134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW				
R135	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW				
R136	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W				
R137	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW				
R138	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W				
R139	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150KW				
R141	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33W				
R142	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W				
R143	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW				
R144	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W				
R145	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W				
R146	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW				
R147	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W				

R412	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R617	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	
R451	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3KW	R618	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W	
R452	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW	R619	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R453	ERG2FJ820	METAL	2W	5%	82W	▲	R620	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R454	ERX12SJR82P	RESISTOR	12W	5%	R82W	R621	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R455	ERX12SJR82P	RESISTOR	12W	5%	R82W	R624	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	
R456	ERDS1TJ220	CARBON	0.5W	5%	22W	R625	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW	
R457	ERDS1TJ223	CARBON	0.5W	5%	22KW	R626	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	
R458	ERG1SJ272	METAL	1W	5%	2.7KW	▲	R627	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R459	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW	R628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	
R504	ERD25TJ271	CARBON	0.25W	5%	270W	R629	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R505	ERG3SJS330	METAL	3W	5%	33W	▲	R630	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R506	ERDS1TJ152	CARBON	0.5W	5%	1K5W	R632	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW	
R507	ERDS1TJ152	CARBON	0.5W	5%	1K5W	R633	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	
R531	ERD25TJ103	CARBON	0.25W	5%	10KW	R634	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	
R532	ERD25TJ103	CARBON	0.25W	5%	10KW	R635	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	
R533	ERD25TJ683	CARBON	0.25W	5%	68KW	R636	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R534	ERD25TJ473	CARBON	0.25W	5%	47KW	R637	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	
R535	ERD25TJ472	CARBON	0.25W	5%	4K7W	R639	EVNDXAA03B32	CONTROL			300W	
R536	ERD25TJ103	CARBON	0.25W	5%	10KW	R640	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R539	ERD25TJ103	CARBON	0.25W	5%	10KW	R643	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	
R540	ERD25TJ183	CARBON	0.25W	5%	18KW	R644	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	
R541	ERD25TJ102	CARBON	0.25W	5%	1KW	R645	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W	
R542	ERD25TJ103	CARBON	0.25W	5%	10KW	R646	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R543	ERD25TJ222	CARBON	0.25W	5%	2K2W	R647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	
R547	ERD25TJ103	CARBON	0.25W	5%	10KW	R648	ERJ6GEYJ150	S.M.CARB	0.1W	5%	15W	
R551	ERD25TJ103	CARBON	0.25W	5%	10KW	R649	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R552	ERD25TJ473	CARBON	0.25W	5%	47KW	R651	ERJ6GEYJ225	SM.CARB	0.125W	5%	2.2MW	
R553	ERD25TJ103	CARBON	0.25W	5%	10KW	R652	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	
R554	ERX3SJSR27H	RESISTOR	3W	5%	R27W	R653	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	
R555	ERD25TJ223	CARBON	0.25W	5%	22KW	R654	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	
R556	ERO50PKF2802	METAL	50W	1%	28KW	▲	R655	ERJ6GEYJ243	SM.CARB	0.125W	5%	24KW
R557	ERO25CKF1073	METAL	25W	1%	107KW	▲	R656	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R558	ERO50PKF4532	METAL	50W	1%	45KW	▲	R657	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R559	ERO25CKF1002	METAL	0.25W	1%	10KW	▲	R658	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R560	ERD25TJ222	CARBON	0.25W	5%	2K2W	R659	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	
R562	ERD25TJ473	CARBON	0.25W	5%	47KW	R660	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	
R564	ERDS1TJ394	CARBON	0.5W	5%	390KW	R661	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	
R565	ERQ14AJW2R2	FUSIBLE	14W	5%	2R2W	▲	R662	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R566	ERDS1TJ183	CARBON	0.5W	5%	18KW	R663	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R567	ERG2ANJ223	METAL	2W	5%	22KW	R666	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	
R568	ERQ12HJ330	METAL	0.5W	5%	33W	▲	R667	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R569	ERDS1TJ120	CARBON	0.5W	5%	12W	R668	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	
R570	ERD25TJ103	CARBON	0.25W	5%	10KW	R711	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220KW	
R571	ERX3FJ2R7H	RESISTOR	3W	5%	2R7W	R712	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	
R572	ERG3FJ821	METAL	3W	5%	820W	▲	R714	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W
R574	ERG3FJ151	METAL	3W	5%	150W	▲	R715	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R579	ERD25TJ274	CARBON	0.25W	5%	270KW	R716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	
R580	ERD25TJ563	CARBON	0.25W	5%	56KW	R717	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	
R581	ERD25TJ104	CARBON	0.25W	5%	100KW	R718	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	
R582	ERD25TJ225	CARBON	0.25W	5%	2M2W	R753	ERD25TJ333	CARBON	0.25W	5%	33KW	
R583	ERD25TJ225	CARBON	0.25W	5%	2M2W	R805	232266296706	THERMISTOR				
R584	ERD25TJ152	CARBON	0.25W	5%	1K5W	R806	ERD25TJ101	CARBON	0.25W	5%	100W	
R585	TSF19201	FS LINK			▲	R807	ERD25TJ104	CARBON	0.25W	5%	100KW	
R587	ERD25TJ222	CARBON	0.25W	5%	2K2W	R809	ERF10ZK4R7	WOUND	10W	5%	4R7W	▲
R588	ERD25TJ222	CARBON	0.25W	5%	2K2W	R810	ERD25TJ223	CARBON	0.25W	5%	22KW	
R589	ERDS1TJ100	CARBON	0.5W	5%	10W	R811	ERD25TJ102	CARBON	0.25W	5%	1KW	
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R812	ERD25TJ681	CARBON	0.25W	5%	680W	
R602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R814	ERD25TJ332	CARBON	0.25W	5%	3K3W	
R603	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R815	ERD25TJ150	CARBON	0.25W	5%	15W	
R604	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R816	ERDS1TJ470	CARBON	0.5W	5%	47W	
R605	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R818	ERD25TJ331	CARBON	0.25W	5%	330W	
R606	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R820	ERG3FJ223	METAL	3W	5%	22KW	▲
R609	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R821	ERG3FJ223	METAL	3W	5%	22KW	▲
R610	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82KW	R822	ERD25TJ391	CARBON	0.25W	5%	390W	
R612	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W	R823	ERX2SJR22	RESISTOR	2W	5%	R22W	
R613	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W	R824	ERX2SJR22	RESISTOR	2W	5%	R22W	
R615	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82KW	R825	ERX2SJR22	RESISTOR	2W	5%	R22W	
R616	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R827	ERDS1FJ100	CARBON	0.5W	5%	10W	

R828	ERD25TJ103	CARBON	0.25W	5%	10KW	R1059	ERD25TJ103	CARBON	0.25W	5%	10KW
R829	ERD25TJ471	CARBON	0.25W	5%	470W	R1061	ERD25TJ103	CARBON	0.25W	5%	10KW
R831	ERD75TAJ825	CARBON	0.75W	5%	8M2W ▲	R1062	ERD25TJ222	CARBON	0.25W	5%	2K2W
R832	ERG1SJ331	METAL	1W	5%	330W ▲	R1063	ERD25TJ222	CARBON	0.25W	5%	2K2W
R835	ERD25TJ220	CARBON	0.25W	5%	22W	R1064	ERD25TJ332	CARBON	0.25W	5%	3K3W
R836	ERD25TJ100	CARBON	0.25W	5%	10W	R1065	ERD25TJ512	CARBON	0.25W	5%	5K1W
R837	ERD25TJ153	CARBON	0.25W	5%	15KW	R1066	ERD25TJ912	CARBON	0.25W	5%	9K1W
R838	ERD25TJ102	CARBON	0.25W	5%	1KW	R1101	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R847	ERQ1CJP1R0	FUSIBLE	1W	5%	1R0W ▲	R1102	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R853	ERO25CKF1002	METAL	0.25W	1%	10KW ▲	R1103	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R854	ERDS1TJ153	CARBON	0.5W	5%	15KW	R1104	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R855	ERD25TJ472	CARBON	0.25W	5%	4K7W	R1105	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R856	ERD25TJ473	CARBON	0.25W	5%	47KW	R1106	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R858	ERO25CKF1002	METAL	0.25W	1%	10KW ▲	R1107	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R862	ERD25TJ472	CARBON	0.25W	5%	4K7W	R1108	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R863	ERG3FJ470	METAL	3W	5%	47W ▲	R1111	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R864	ERDS1TJ103	CARBON	0.5W	5%	10KW	R1112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R865	ERG3FJ470	METAL	3W	5%	47W ▲	R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R867	ERD25TJ102	CARBON	0.25W	5%	1KW	R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R870	ERD25TJ101	CARBON	0.25W	5%	100W	R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R873	ERDS1TJ2R2	CARBON	0.5W	5%	2.2W	R1118	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R876	ERD25TJ562	CARBON	0.25W	5%	5K6W	R1119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R877	ERO25CKF1022	METAL	25W	1%	10KW ▲	R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R878	ERO25CKF1002	METAL	0.25W	1%	10KW ▲	R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R883	ERD25TJ103	CARBON	0.25W	5%	10KW	R1122	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R885	ERD25TJ103	CARBON	0.25W	5%	10KW	R1123	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R886	ERF10ZK4R7	WOUND	10W	5%	4R7W ▲	R1124	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R888	ERDS1TJ393	CARBON	0.5W	5%	39KW	R1125	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R889	ERD25TJ392	CARBON	0.25W	5%	3K9W	R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R890	ERX3SJR56	RESISTOR	3W	5%	R56W	R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R891	ERD25TJ103	CARBON	0.25W	5%	10KW	R1128	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R892	ERD25TJ222	CARBON	0.25W	5%	2K2W	R1129	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R894	ERD25TJ101	CARBON	0.25W	5%	100W	R1133	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R905	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R1134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R906	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW	R1135	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R907	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2W	R1136	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
R908	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	R1137	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R909	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1138	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R910	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	R1142	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R911	ERD25TJ561	CARBON	0.25W	5%	560W	R1145	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW	R1150	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R914	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W	R1151	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R915	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8W	R1152	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	R1153	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R918	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1154	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R919	ERQ14AJW390	FUSIBLE	14W	5%	39W ▲	R1156	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8W
R920	ERQ14AJW390	FUSIBLE	14W	5%	39W ▲	R1163	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R922	ERD25TJ683	CARBON	0.25W	5%	68KW	R1164	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R923	ERD25TJ683	CARBON	0.25W	5%	68KW	R1169	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R924	ERDS1FYJ390	CARBON	0.5W	5%	39W ▲	R1170	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R1171	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R1172	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R927	ERD25TJ122	CARBON	0.25W	5%	1K2W	R1174	ERDS1TJ561	CARBON	0.5W	5%	560W
R928	ERD25TJ2R7	CARBON	0.25W	5%	2R7W	R1182	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R929	ERDS1FYJ221	CARBON	0.5W	5%	220W	R1183	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R930	ERD25TJ2R7	CARBON	0.25W	5%	2R7W	R1184	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R931	ERDS1FYJ390	CARBON	0.5W	5%	39W ▲	R1185	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R932	ERDS1FYJ101	CARBON	0.5W	5%	100W ▲	R1186	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R933	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R1188	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R934	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W	R1190	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R935	ERQ14AJW3R9	FUSIBLE	14W	5%	3R9W ▲	R1191	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R936	ERQ1CJP102	METAL	1W	5%	1KW ▲	R1192	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R937	ERQ14AJW100	METAL	0.25W	5%	10W ▲	R1193	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R938	ERD25TJ122	CARBON	0.25W	5%	1K2W	R1194	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R940	ERD25TJ3R3	CARBON	0.25W	5%	3R3W	R1301	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R941	ERD25TJ3R3	CARBON	0.25W	5%	3R3W	R1302	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W
R1054	ERD25TJ101	CARBON	0.25W	5%	100W	R1305	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1057	ERD25TJ101	CARBON	0.25W	5%	100W	R1306	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1058	ERD25TJ471	CARBON	0.25W	5%	470W	R1307	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W

R1308	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1MW	R1644	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1313	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R1646	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W
R1315	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R1317	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W	R1648	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1318	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W	R1649	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1319	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R1650	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1320	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R1652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1321	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R1653	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1322	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1654	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1323	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1656	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1324	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R1659	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1325	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1662	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1326	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1666	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1327	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R1667	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1328	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1668	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1329	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R1679	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1337	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W	R1680	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R1340	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1681	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1501	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R1682	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R1502	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R1683	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R1504	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W	R1688	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R1507	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1689	ERJ6GEYJ561V	S.M.CARB	0.1W	5%	560W
R1508	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W	R1701	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W
R1510	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1703	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1511	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1704	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1513	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1706	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1516	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1707	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W
R1517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1710	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W
R1518	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1713	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R1519	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1520	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1724	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W
R1523	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1730	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R1550	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	R1777	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W
R1551	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W	R1778	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R1552	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R2001	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1554	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W	R2004	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1555	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R2005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2006	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2007	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2008	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1563	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W	R2009	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1568	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	R2010	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1570	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R2011	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1572	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W	R2012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1575	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W	R2013	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1576	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820W	R2014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1577	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R2015	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1578	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W	R2016	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1581	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2017	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2019	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1608	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2020	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1620	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2021	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1621	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2022	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1622	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1624	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R2025	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW
R1625	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W	R2026	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1626	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W	R2027	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1627	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8W	R2038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R2039	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1629	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200W	R2044	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1630	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W	R2045	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1631	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2301	ERJ6GEYJ2R2	S.M.CARB	0.125W	5%	2R2W
R1632	ERJ6GEYJ133	SM.CARB	0.125W	5%	13KW	R2302	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW
R1633	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R2303	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW
R1634	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R2304	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R1641	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R2305	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1643	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R2306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW

R2307	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	R3147	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R2308	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R3148	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2309	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3149	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2310	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R3150	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2311	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW	R3151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2312	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW	R3152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2313	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R3153	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2314	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3154	ERD2FCVG100T	CARBON	2W	2%	10W
R2315	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3158	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2316	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R3159	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R2317	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R3160	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW
R2318	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W	R3161	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W
R2319	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3162	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2320	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R3163	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R2322	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R3165	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R2351	ERQ14AJW100	METAL	0.25W	5%	10W Δ	R3167	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R2352	ERD25TJ101	CARBON	0.25W	5%	100W	R3178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2353	ERD25TJ101	CARBON	0.25W	5%	100W	R3180	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2354	ERD25TJ473	CARBON	0.25W	5%	47KW	R3182	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2355	ERD25TJ102	CARBON	0.25W	5%	1KW	R3184	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2356	ERD25TJ102	CARBON	0.25W	5%	1KW	R3185	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW
R2357	ERD25TJ102	CARBON	0.25W	5%	1KW	R3186	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2358	ERD25TJ102	CARBON	0.25W	5%	1KW	R3187	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW
R2359	ERD25TJ271	CARBON	0.25W	5%	270W	R3188	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2360	ERD25TJ183	CARBON	0.25W	5%	18KW	R3192	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2361	ERD25TJ100	CARBON	0.25W	5%	10W	R3193	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2371	ERQ14AJW100	METAL	0.25W	5%	10W Δ	R3194	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2372	ERD25TJ101	CARBON	0.25W	5%	100W	R3195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2373	ERD25TJ101	CARBON	0.25W	5%	100W	R3196	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2374	ERD25TJ473	CARBON	0.25W	5%	47KW	R3197	ERD2FCVG100T	CARBON	2W	2%	10W
R2375	ERD25TJ102	CARBON	0.25W	5%	1KW	R3198	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2376	ERD25TJ102	CARBON	0.25W	5%	1KW	R3199	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2377	ERD25TJ102	CARBON	0.25W	5%	1KW	R3200	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R2378	ERD25TJ102	CARBON	0.25W	5%	1KW	R3201	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R2379	ERD25TJ271	CARBON	0.25W	5%	270W	R3202	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R2380	ERD25TJ183	CARBON	0.25W	5%	18KW	R3205	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R2381	ERD25TJ100	CARBON	0.25W	5%	10W	R3206	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R3006	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3207	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R3101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3208	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3210	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R3108	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3211	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R3109	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3212	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW
R3110	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3213	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3114	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3214	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3115	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3215	ERD2FCVG100T	CARBON	2W	2%	10W
R3117	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3216	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W
R3118	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3217	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3126	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3218	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R3127	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3226	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3128	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3227	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3129	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3228	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W
R3130	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3229	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3131	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3230	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3132	ERD2FCVG100T	CARBON	2W	2%	10W	R3231	ERD2FCVG100T	CARBON	2W	2%	10W
R3133	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3232	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W
R3134	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3233	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W
R3135	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3236	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3136	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3137	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3238	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3138	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R3239	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3139	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3240	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R3140	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3351	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3141	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3352	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R3142	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3353	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470KW
R3143	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW	R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3144	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R3145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3501	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R3146	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW	R3502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W

R3503	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	S1053	EVQ23405R	SWITCH
R3505	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W	S1054	EVQ23405R	SWITCH
R3506	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W	S1055	EVQ23405R	SWITCH
R3507	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W			
R3508	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W			
R3509	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW			
R3513	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W			
R3514	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	T501	TLHA003	TRANSFORMER
R3515	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	T551	ZTFH65011A	F.B.T.
R3516	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	T801	ETP35KAN615U	TRANSFORMER
R3517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	T802	ETS49AH137ND	TRANSFORMER
R3518	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	T803	ETQ19K55AY	TRANSFORMER
R3520	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W			
R3521	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W			
R3522	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W			
R3523	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W			
R3526	ERD25TC0T	CARBON	0.25W	5%	0W	X101	EFCT6504BF	FILTER
R3531	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	X102	EFCS5M7MW3	CERAMIC FILTER
R3532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W	X103	EFCS6R0MW5	FILTER
R3534	ERD25TJ181	CARBON	0.25W	5%	180W	X104	K3953-M100	SAW FILTER
R3536	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	X105	L9454M	SAW FILTER
R3539	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	X106	EFCV3195T6	CERAMIC FILTER
R3802	ERG3FJ100	METAL	3W	5%	10W	X107	EFCT7004BF	CERAMIC FILTER
R3803	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	X109	EFCV4045T4	CERAMIC FILTER
R3804	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	X601	TSSA024	CRYSTAL
						X602	TSSA025	CRYSTAL
						X1101	TAF10020	CRYSTAL
						X1551	TSSA009	CRYSTAL
						X2001	TSS4004-B	CRYSTAL
						X3501	TSSA009	CRYSTAL

DIFFERENCES FOR MODEL TX-29AD50F

MISCELLANEOUS COMPONENTS

4)	TKY8E080	CABINET	▲
7)	TBM173052	PANASONIC BADGE	
8)	A68ESF002X43	C.R.T.	▲
9)	THT1009R	CRT FIXING SCREW	
10)	TLK8E05125	DEGAUSS COIL	
12)	TKU8E00270	REAR COVER	▲
13)	TBM8E1541	MODEL LABEL	
15)	TNPA0295AC	D P.C.B.	▲
20)	TNPH0063AB	E P.C.B.	▲
24)	TKP8E1144	SPEAKER NET	
	TPC8E4543	OUTER CARTON	

CAPACITORS

C664	ECUV1H103ZFX	S.M.CAP	50V	10nF
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COILS

L571	ELC18B221L	COIL
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INTEGRATED CIRCUITS

IC1104	X24C0302EU	EAROM
IC1105	27C2001C07AC	EPROM

DIFFERENCES FOR MODEL TX-25AD50F

MISCELLANEOUS COMPONENTS

4)	TKY8E100	CABINET	▲
7)	TBM153022	PANASONIC BADGE	
8)	A59ESF002X43	CRT	▲
9)	THE492-4	CRT FIXING SCREW	
10)	TLK8E05120	DEGAUSS COIL	
12)	TKU8E00280	REAR COVER	▲
13)	TBM8E1543	MODEL LABEL	
15)	TNPA0295AG	D P.C.B.	▲
20)	TNPH0063AG	E P.C.B.	▲
24)	TKP8E1146	SPEAKER NET	
	TPC8E4545	OUTER CARTON	

COILS

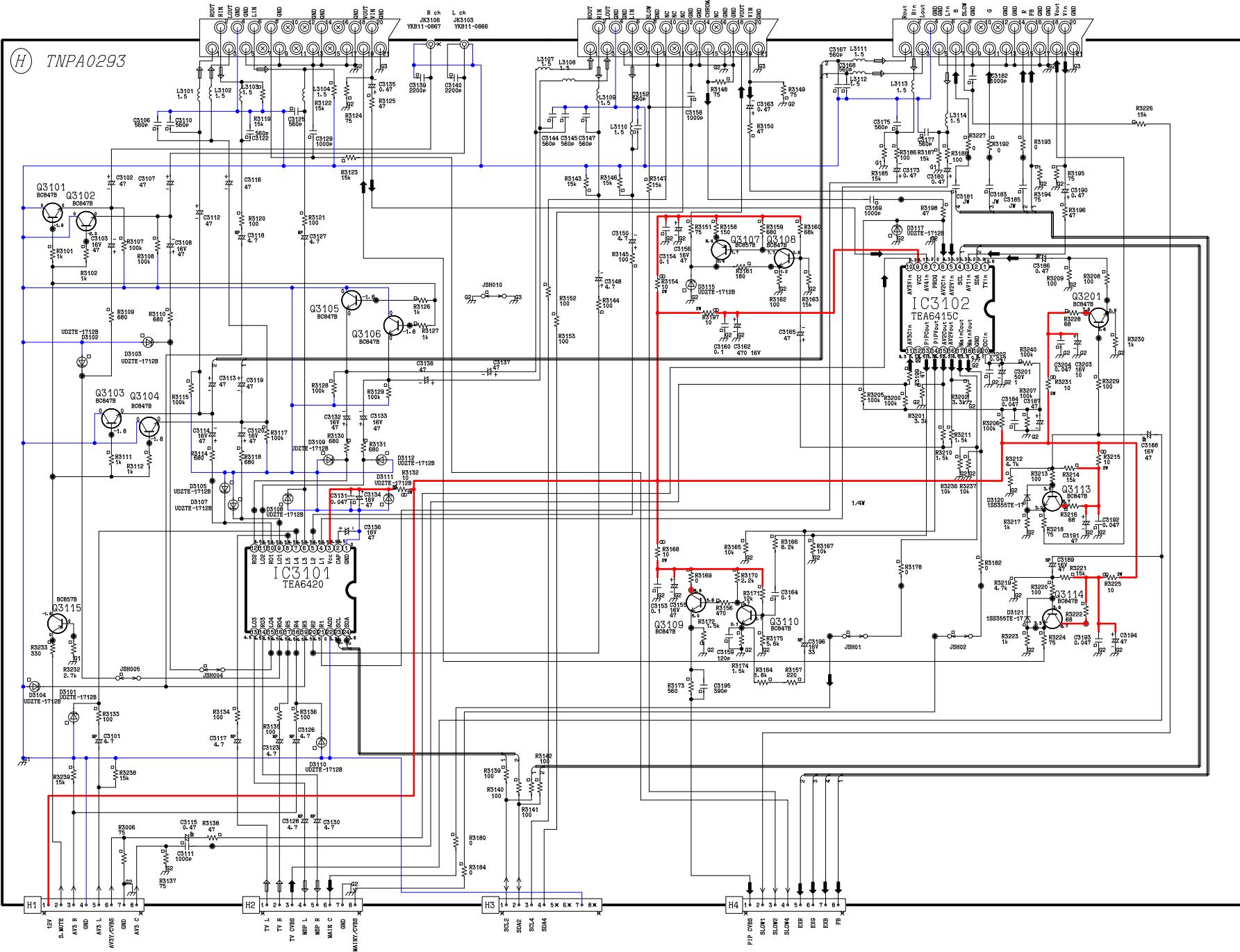
L571	ELC18B331L	COIL
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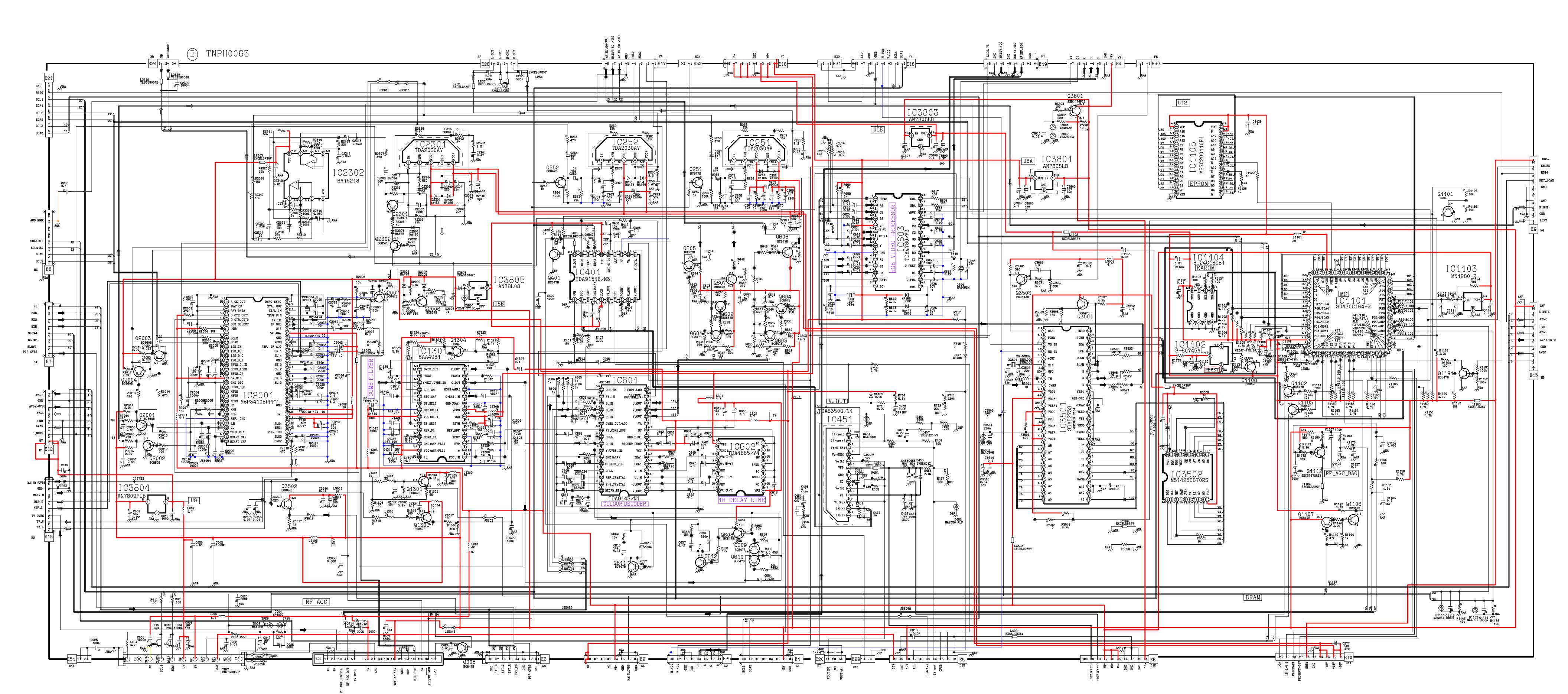
INTEGRATED CIRCUITS

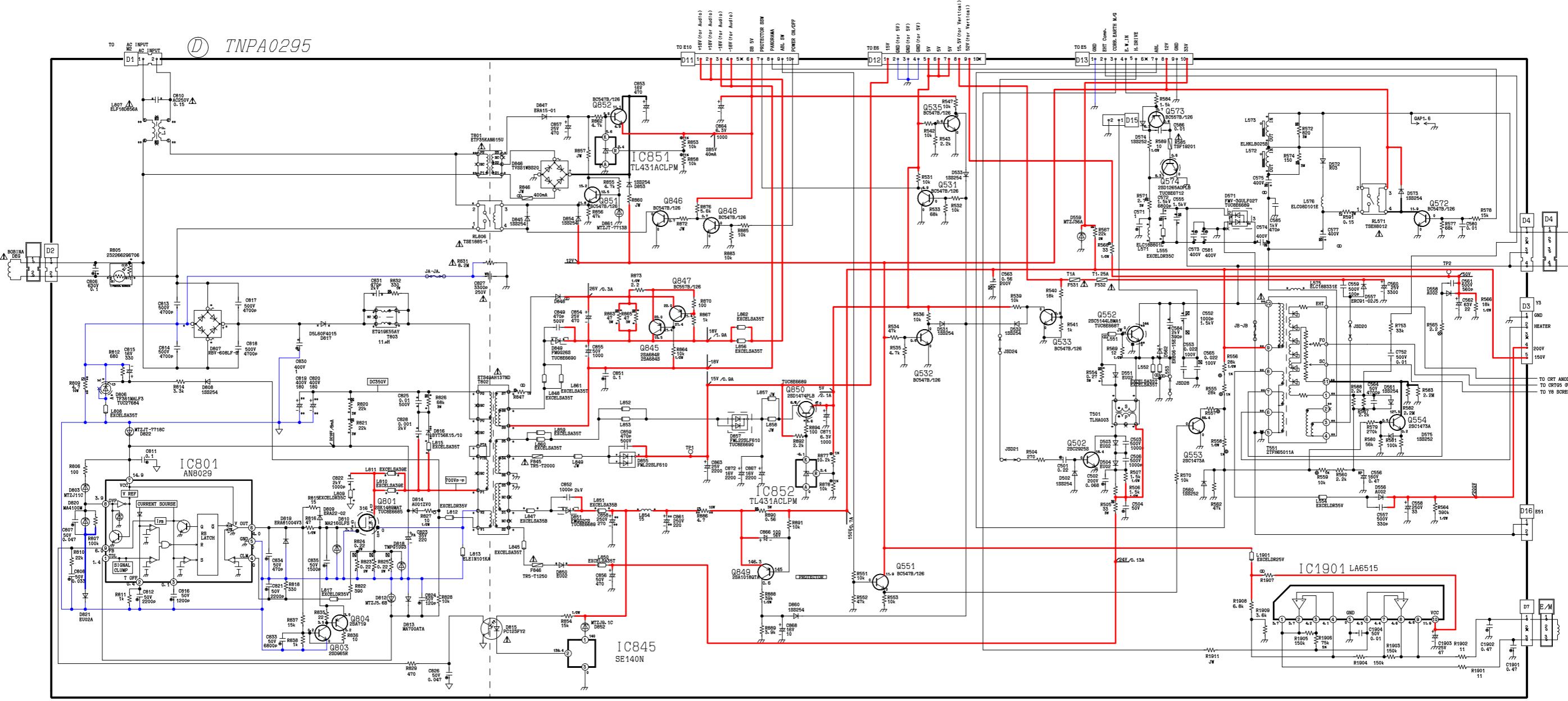
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IC1105	27C2001C07AB	EPROM

JK3104
AV4JK3102
AV2JK3101
AV1

(H) TNPA0293





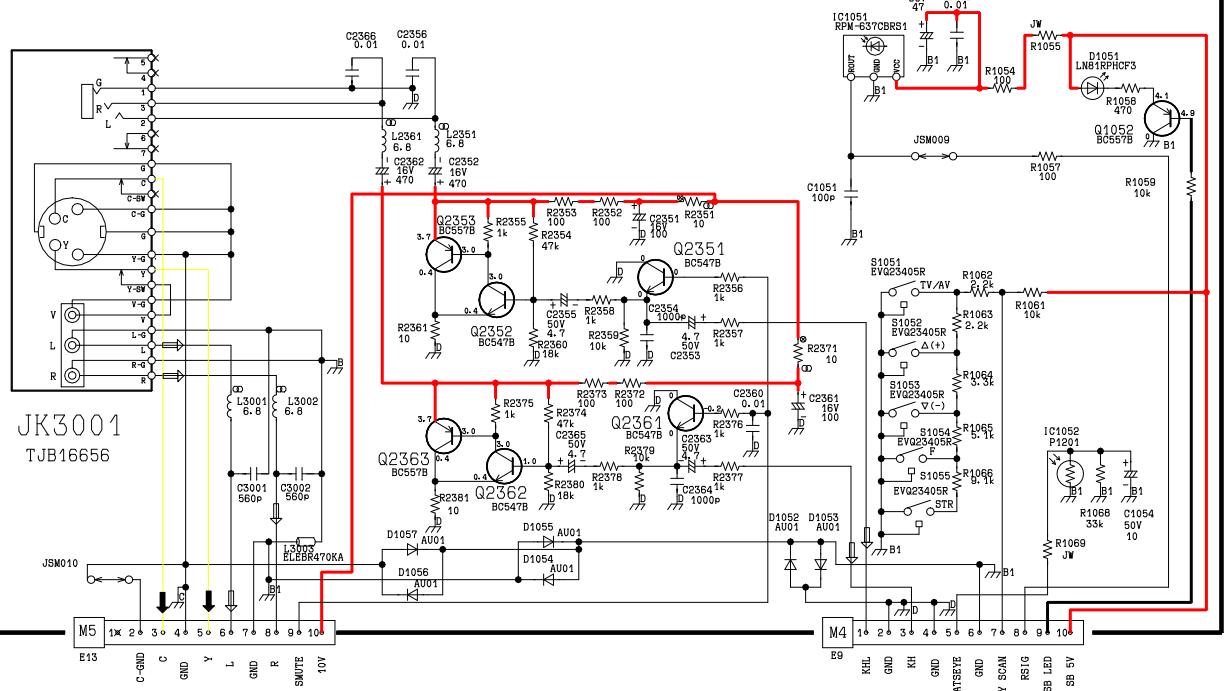


M1

TNPA0291

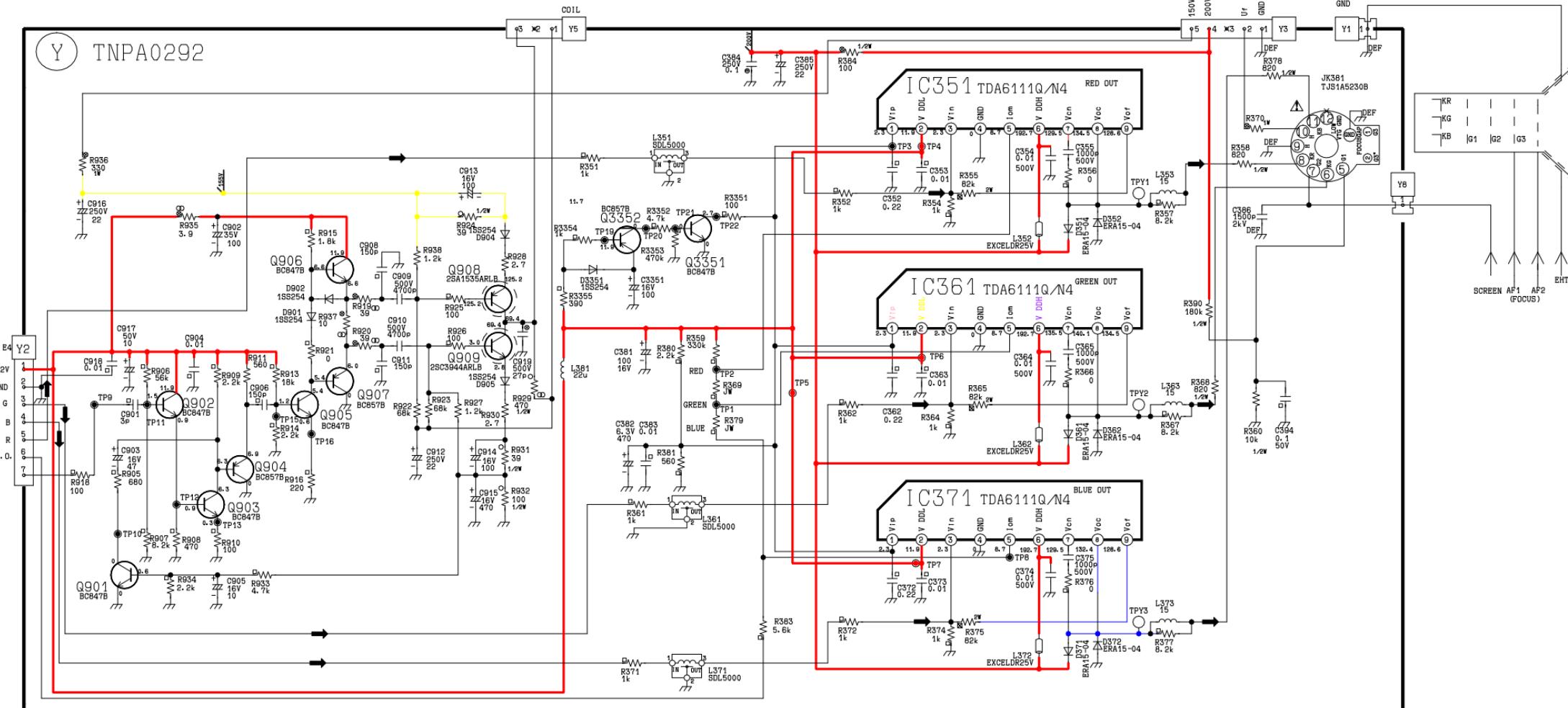
COLD

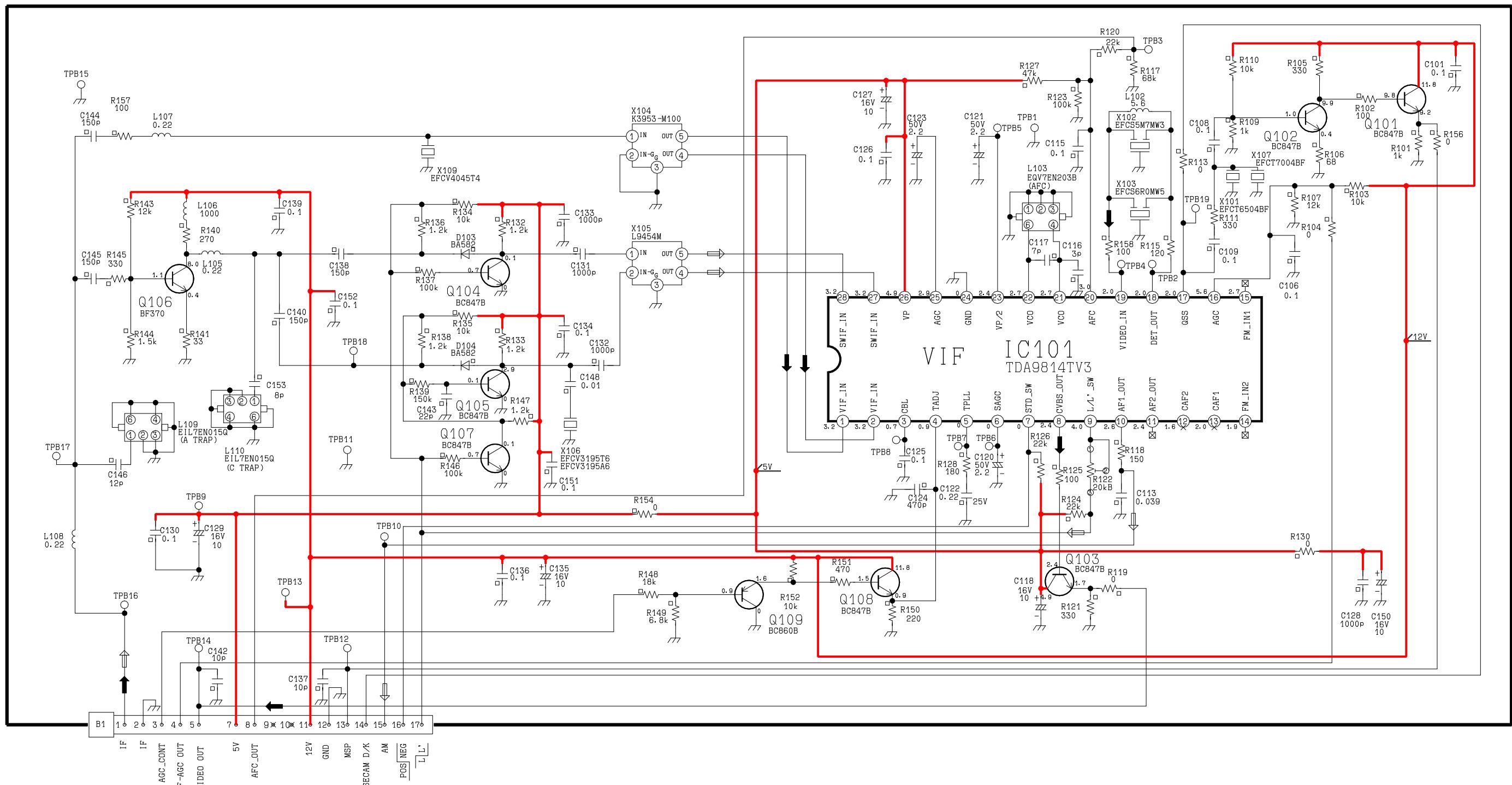
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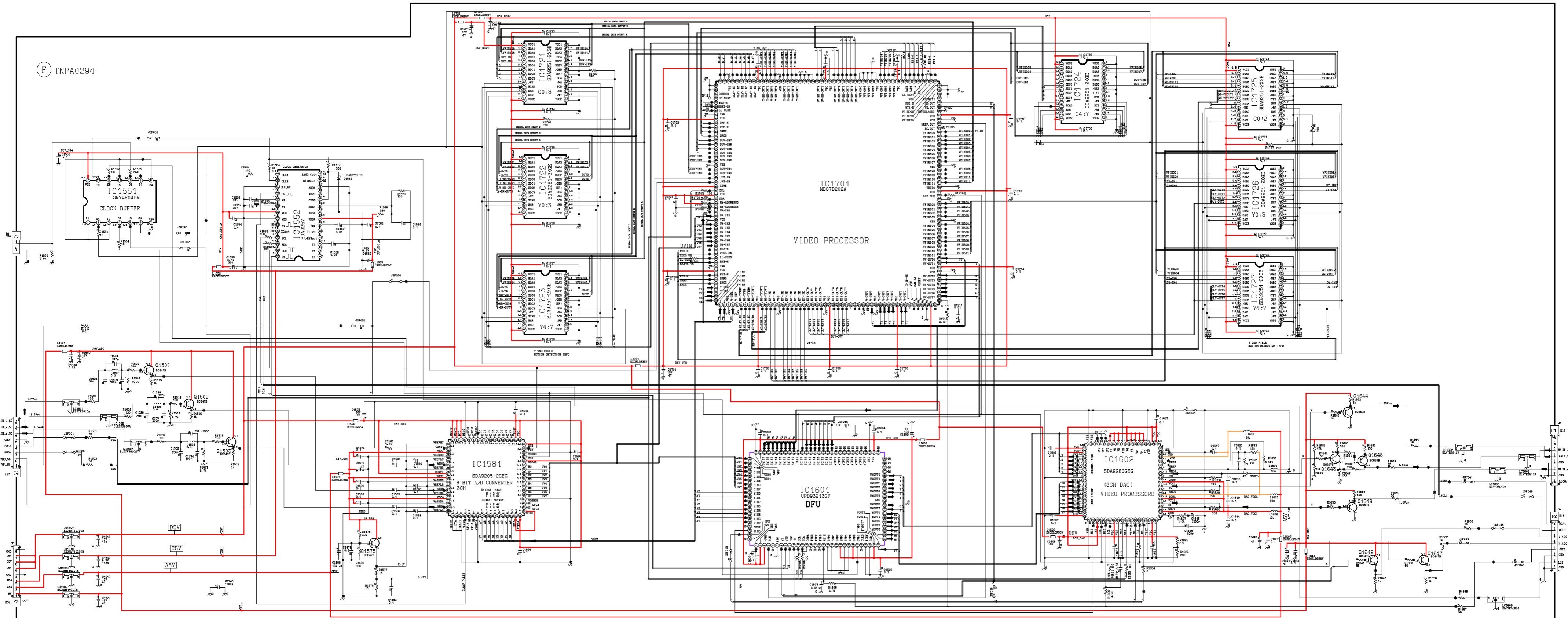


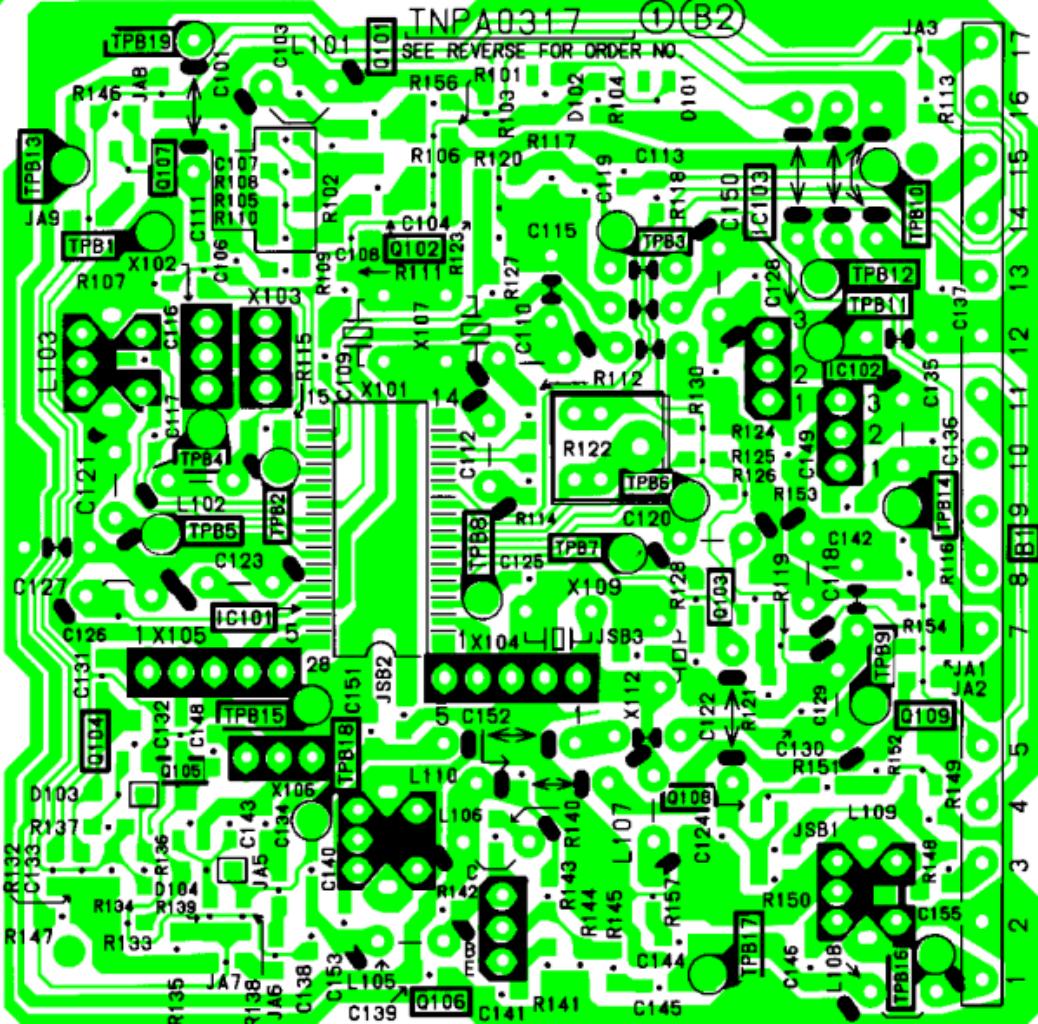
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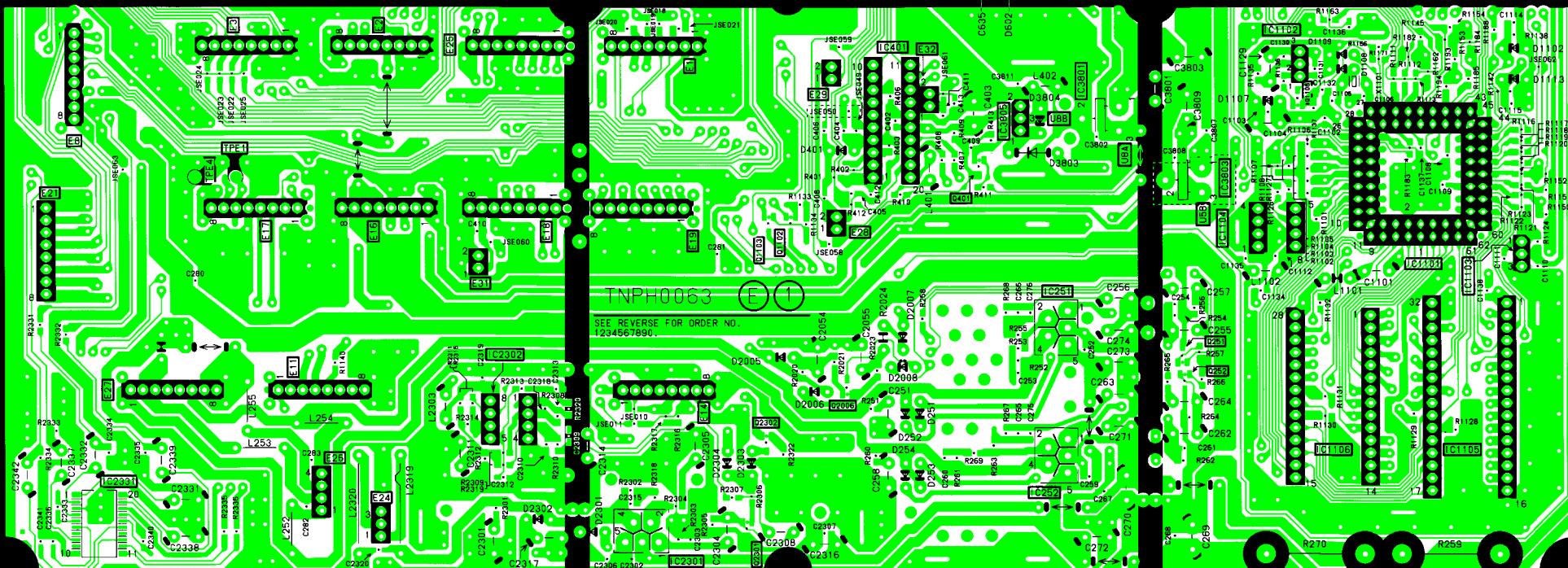
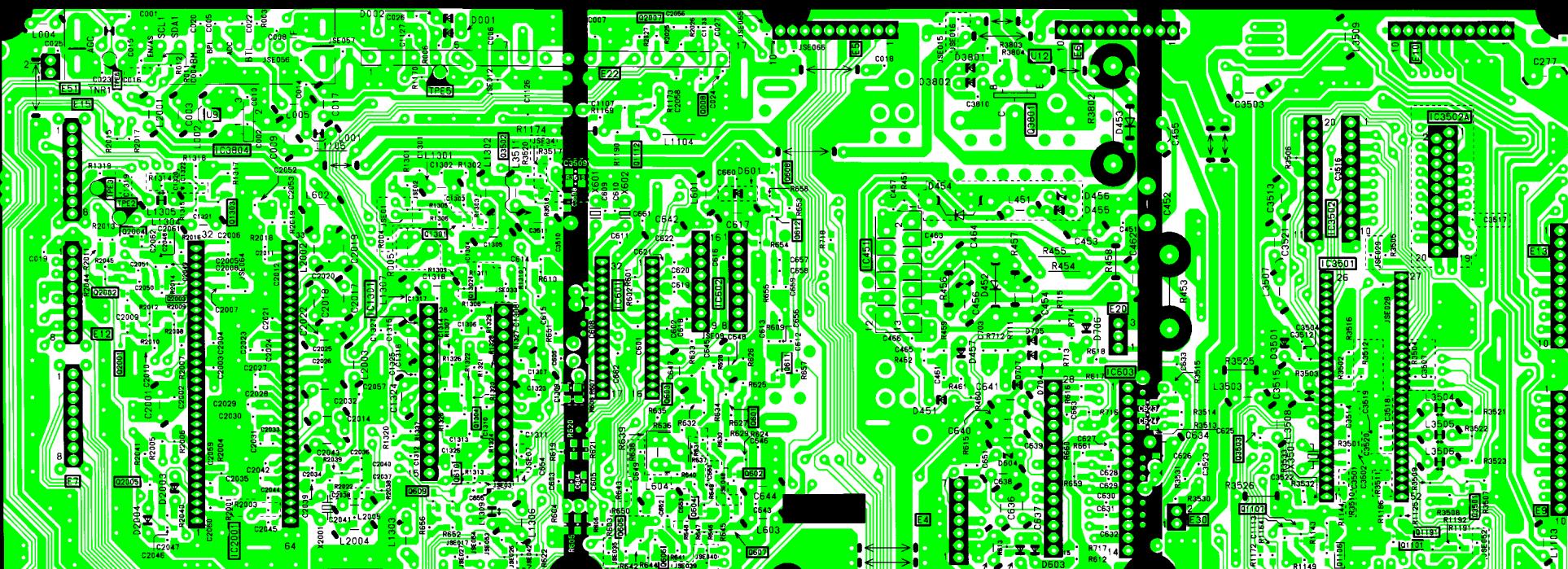
TNPA0292

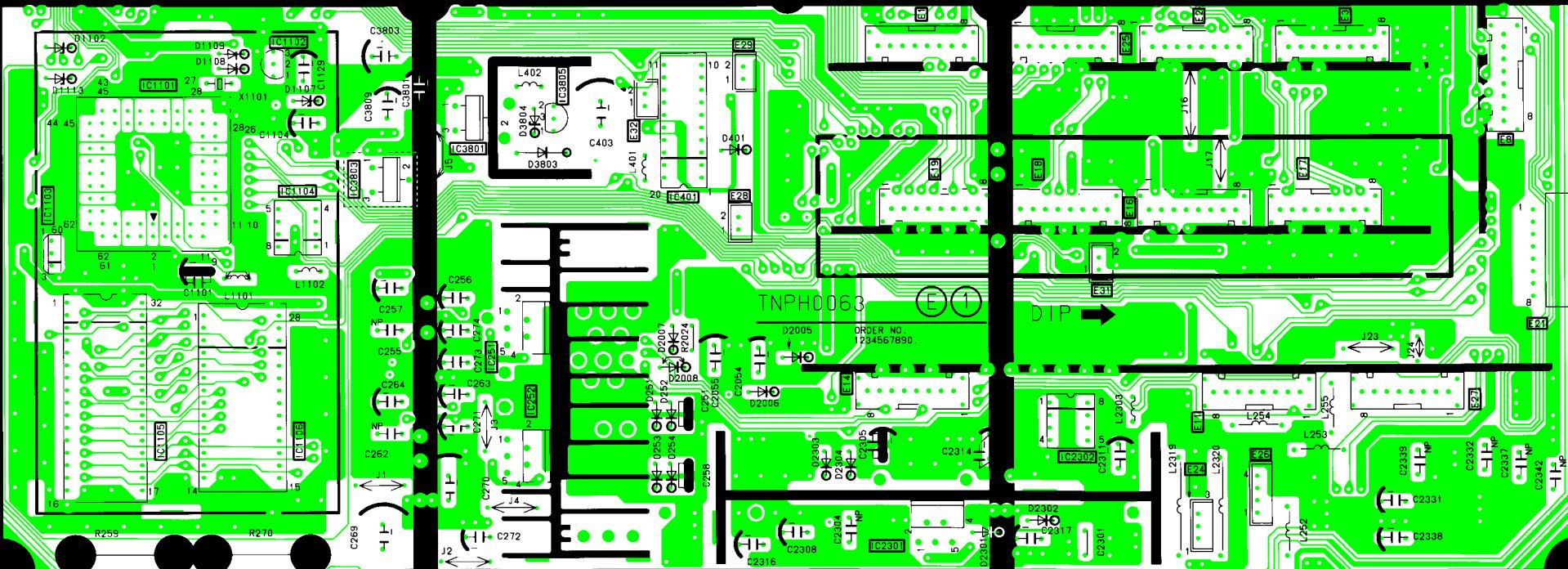
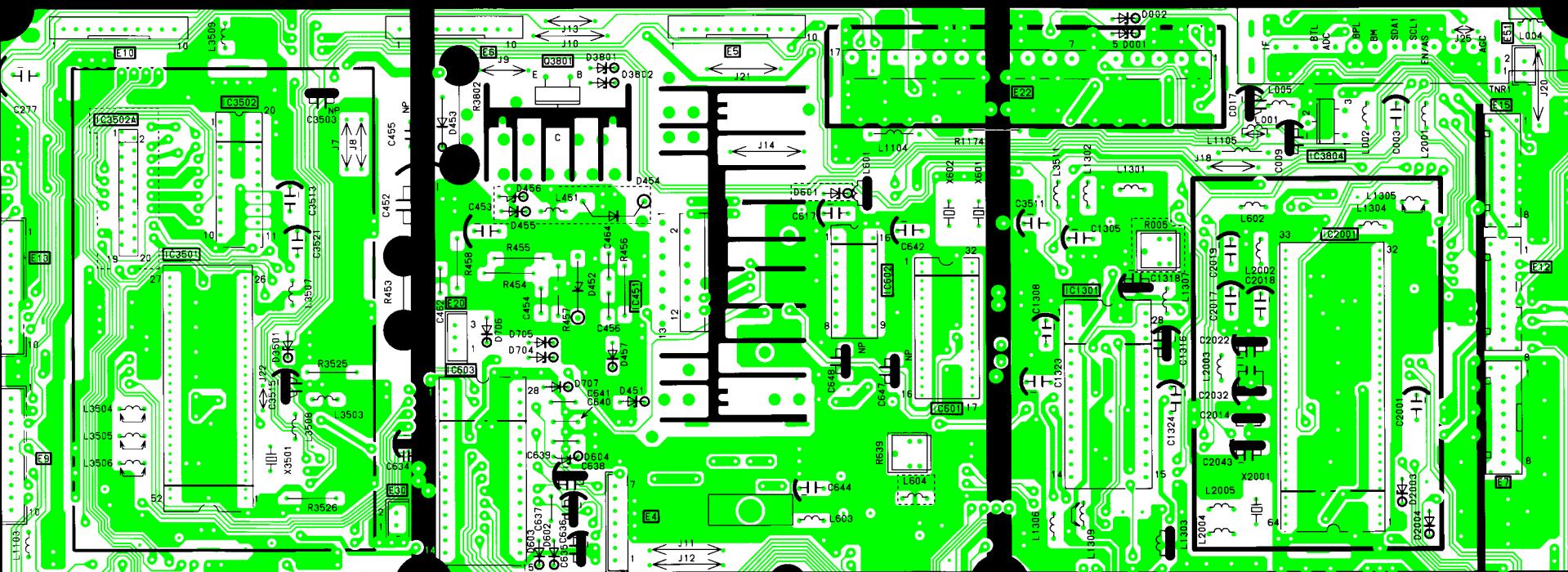


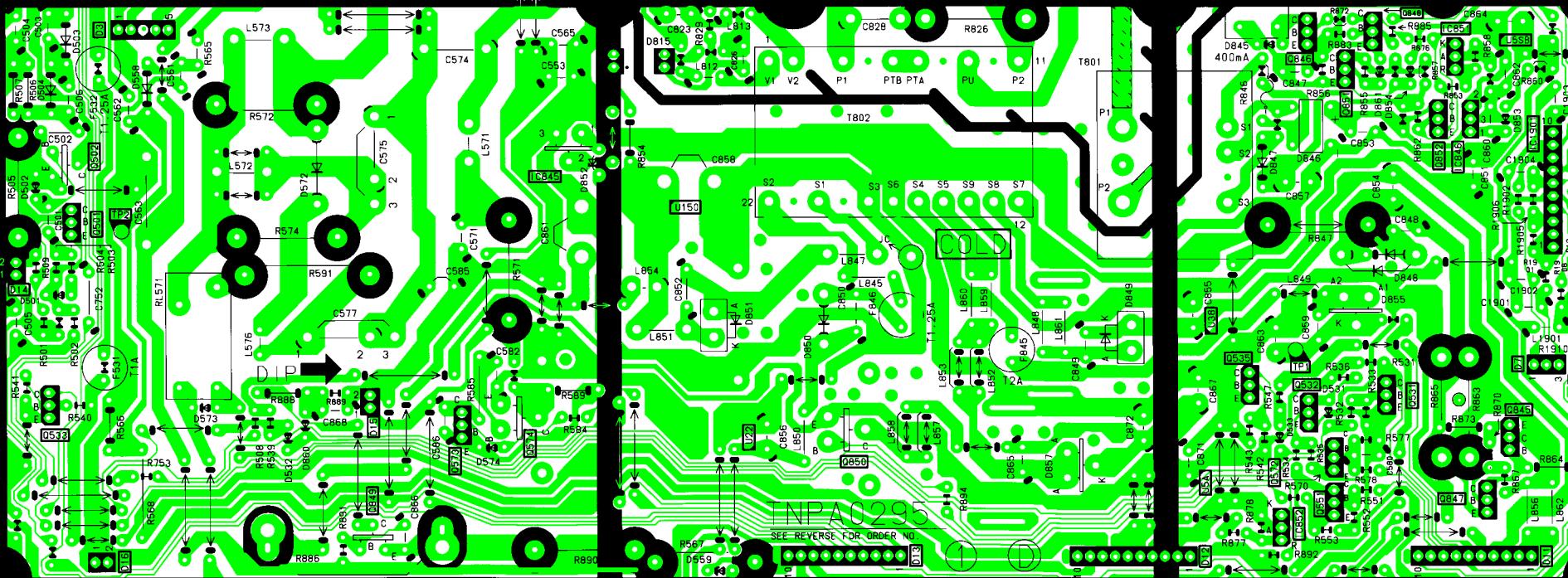
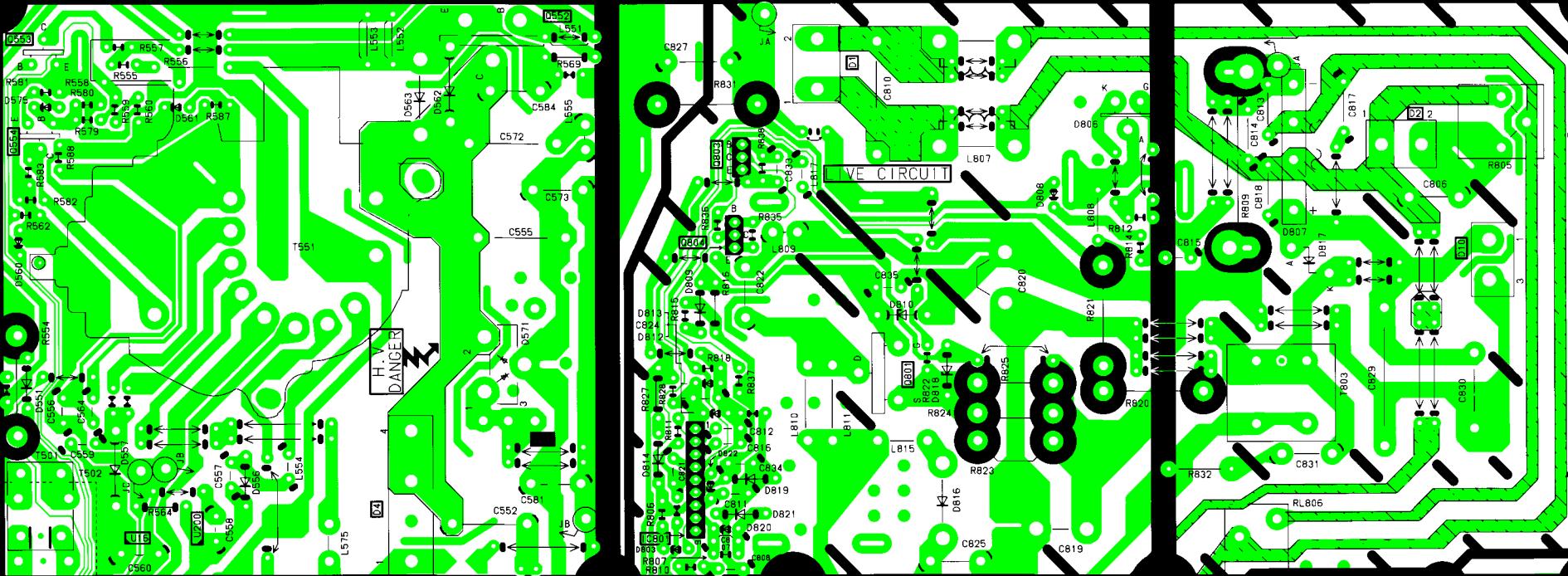


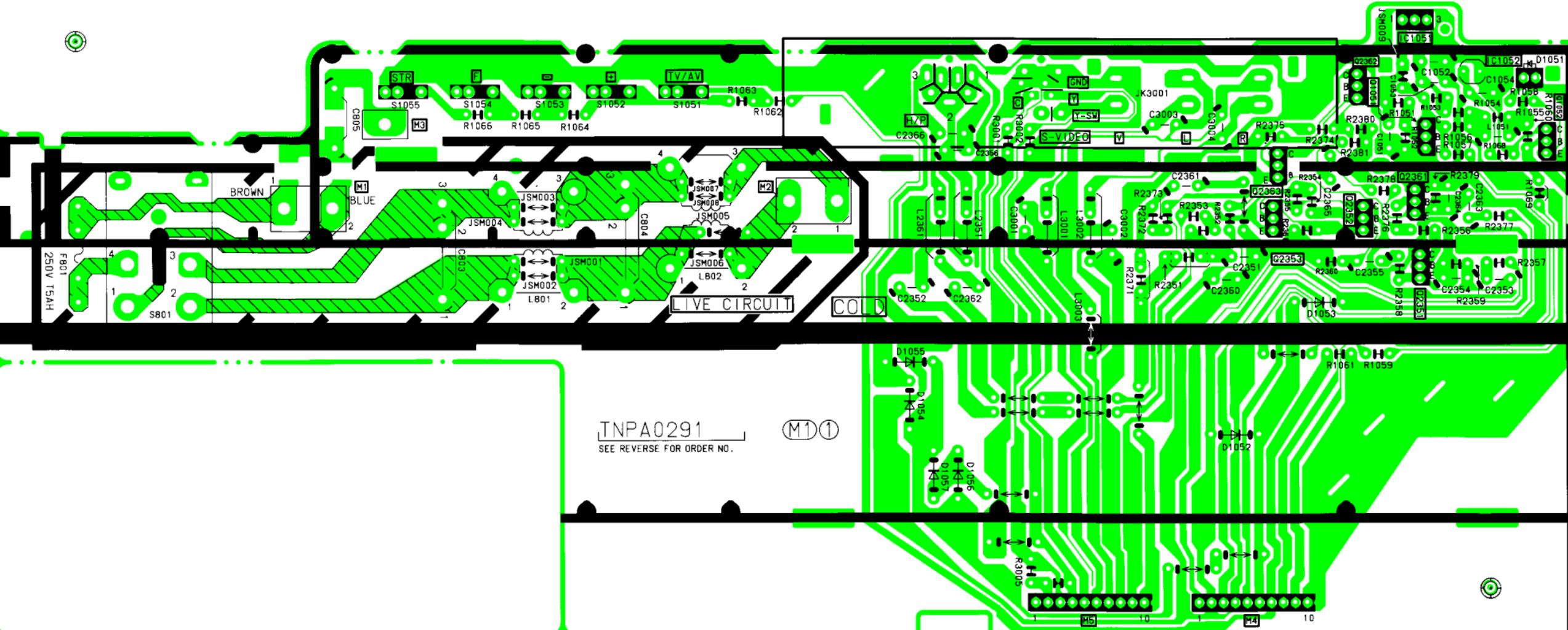












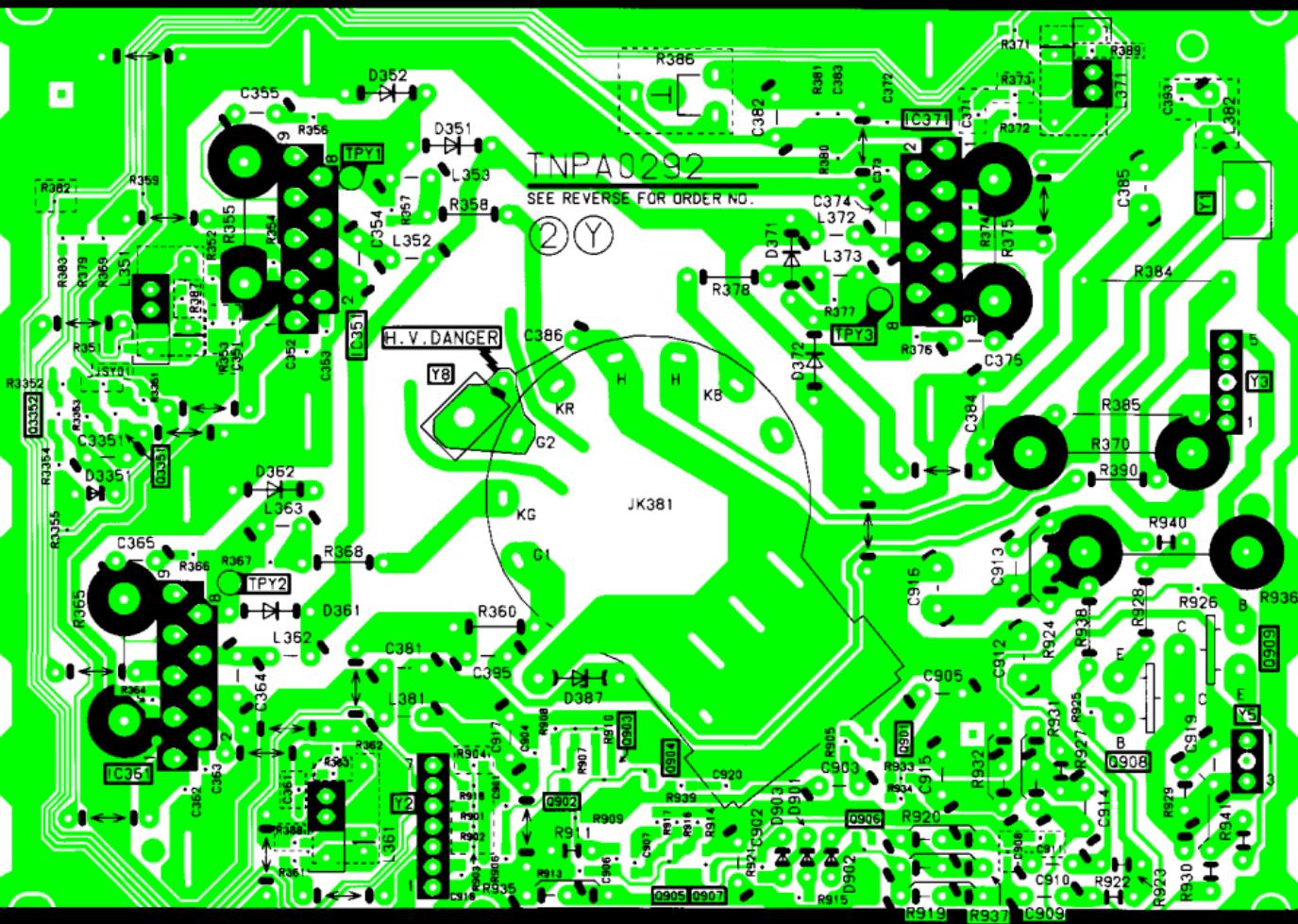
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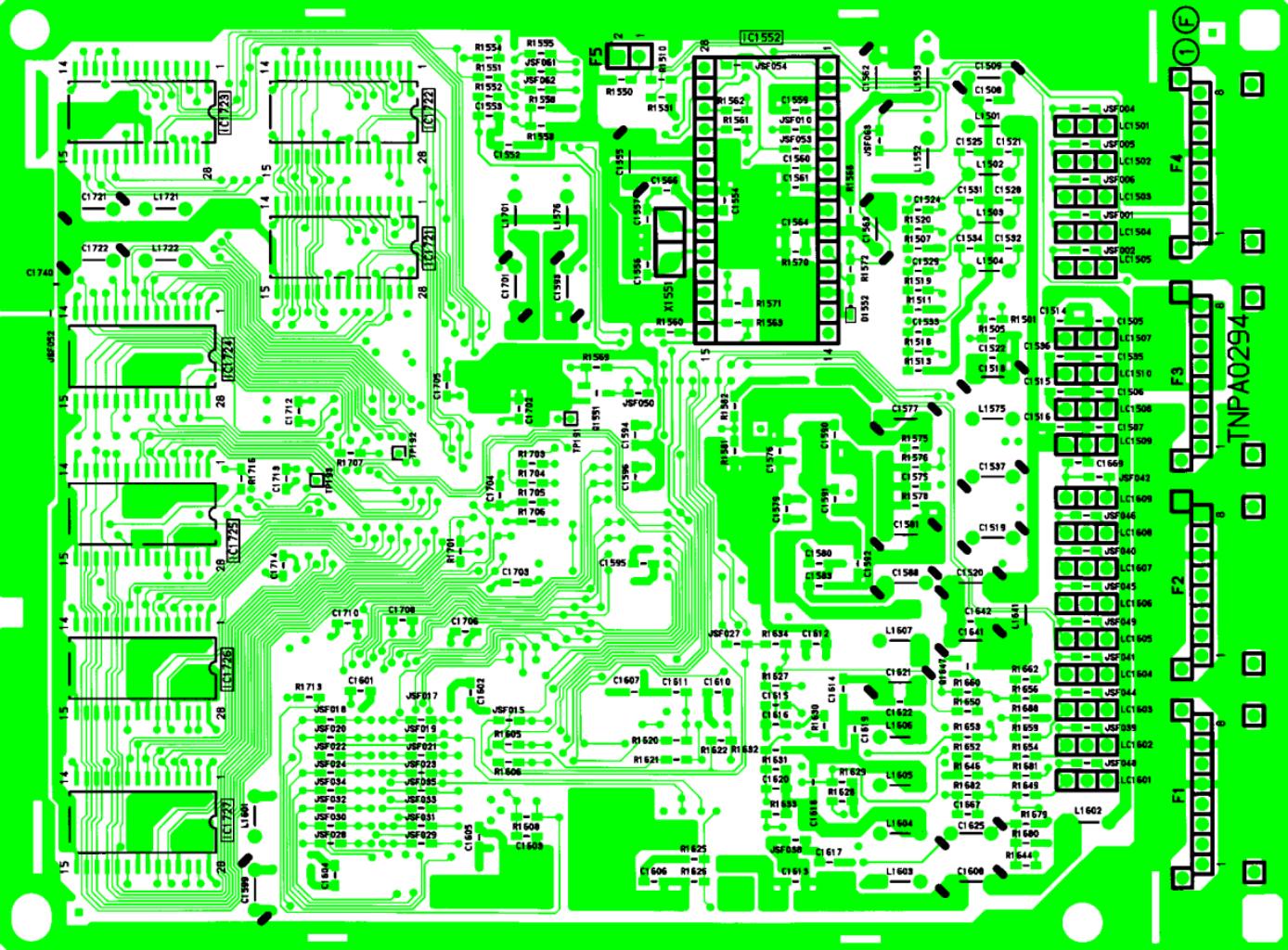
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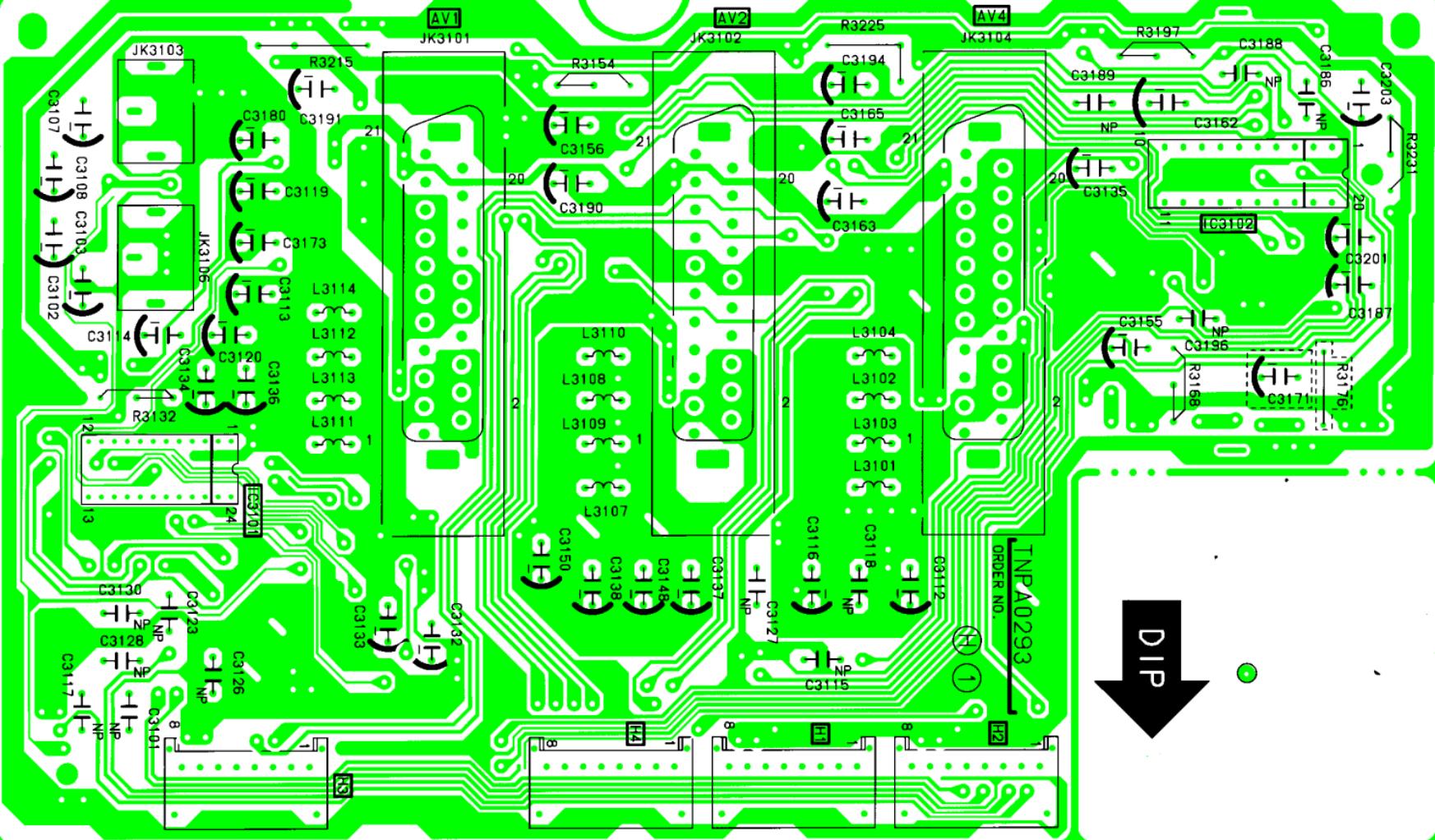
H.V. DANGER

JK381



TNPA0294





TNPA0293

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