

## nicam television set 16/9 format

Chassis code ICC20  
100 Hz technology  
32 inches  
SF-H 16/9 tube  
Mask INVAR  
BLACK MATRIX processing  
Navilight  
Stereo sound  
NICAM 2 x 20 W  
Built-in teletext  
Standard : PAL / SECAM  
NTSC via SCART connector  
Norms : PanEuro-LL'BGIDKK'



- image
- sound
- special features
- connectors / general remarks



### image

SF-H 32 inches tube - 16/9 format  
Mask INVAR  
BLACK MATRIX processing for optimal contrast  
S-VHS  
Zoom  
Total tube size : 32 inches diagonal  
Picture size : 28 inches diagonal  
Standard : PAL / SECAM / NTSC via Video connector  
Norms : PanEuro-LL'BGIDKK'  
Videotext / Fasttext / Toptext : 128 pages



### sound

Stereo sound NICAM L/BG(DKK)/I  
Power : 2 x 20W music  
4 speakers : 2 mediums, 2 tweeters  
Spatial / Pseudo effects / Virtual Dolby



### special features

Automatically switches to standby mode when no signal is present after 5 minutes  
Child lock  
Display of channel number  
Navilight system  
Memorize up to 99 channels + 3 AV channel  
Auto programming  
Frequency synthesis tuner  
Compatible with cable networks  
8 MHz hyperband  
RCT2100S remote control



### connectors / general remarks

1 antenna connector  
Front or Side : Headphone jack (3,5 mm)  
2 AUDIO in / 1 CVBS in / S-VIDEO in  
cinches  
Rear : 3 SCARTS connector  
2 AUDIO out  
Power supply : 220 - 240 V; 50/60 Hz  
Consumption : 115 W/h - in stand-by mode < 1,6 W/h  
Weight : 50 kg  
Dimensions (W x H x D) : 868 x 559 x 570 mm  
Optional stand : STTH3245



**WARNING :** *Before servicing this chassis read the safety recommendations.*

**ATTENTION :** *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*

**ACHTUNG :** *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*

**ATTENZIONE :** *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*


**IMPORTANTE :** *Antes de cualquier intervención, leer las recomendaciones de seguridad.*


Do not disconnect modules when they are energized! Repairs on power supply section are to be carried out only with isolating transformer.


Ne pas retirer les modules lorsqu'ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement. Module nicht bei eingeschaltetem Gerät entfernen ! Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.


Non scollegare i moduli quando sono alimentati! Intraprendere riparazioni sulla sezione alimentatore solo con trasformatore isolante.


No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

 Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ) gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marcati con il segno ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

Note : During measurements in the power supply unit, use the primary power unit ground (Emit. TP060).

Attention : Mesures dans le bloc alimentation. Utiliser la masse du bloc alimentation (Emit. TP060).

Achtung : Bei Messungen im Primärnetzteil. Primärnetzteilmasse verwenden (Emit. TP060).

Attentionze : Misure nell'alimentatore primario. Usare massa alimentazione primario (Emit. TP060).

Cuidado : Medida en el bloque de alimentación. Utilizar la masa del bloque de alimentación (Emit. TP060).

## MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

### RECEIVER :

Bar test pattern : PAL, I standard, 100% white.

- On UHF, input level 1 mV
- Via the scart socket, input level 1 Vpp

Colour, contrast and brightness at mid-position, sound at minimum.

Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

### RECEPTEUR :

Mire de barres : SECAM, Norm L, Blanc 100%.

- En UHF, niveau d'entrée 1 mV
- Par la prise Péritélévision, niveau d'entrée 1Vcc.

Couleur, contraste, lumière à mi-course, son minimum.

Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

### EMPFÄNGER :

Farbbalken : PAL, Norm G, Weiss 100%

- Bei UHF Eingangspegel 1 mV.
- Über die Scartbuchse : Eingangspegel 1 Vss.

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.

Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

### RICEVITORE :

Monoscopio per barre : PAL, norma G. bianco 100%.

- In UHF, livello d'entrata 1 mV,
- Per la presa SCART, livello d'entrata 1 Vcc.

Colore, Contrasto, Luce a metà corsa, Suono minimo.

Programma designato PR 01.

Tensioni continue rilevate rispetto alla massa con un voltmetro numerico.

### RECEPTOR :

Mira de barras : PAL, norma G, blanco 100%.

- En UHF, nivel de entrada 1 mV,
- Por la toma Peritelevision, nivel de entrada 1 Vpp.

Color, Contraste, luz a mitad de carrera, Sonido minimo.

Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltmetro digital.



**CLASS 1 LASER PRODUCT**  
**APPAREIL A LASER DE CLASSE 1**  
**LASER KLASSE 1**  
**APPARECCHIO CON LASER DI CLASSE 1**  
**APARATO CON LASER DE CLASE 1**

**DANGER :** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.


**ATTENTION :** Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.

**VORSICHT BEI REPARATUREN :** Bei geöffneter Schublade und Defekt der Sicherheitsvorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.


**ATTENZIONE :** Il raggio laser è invisibile. Evitare l'esposizione diretta durante la manutenzione.

**IMPORTANTE :** El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.


#### IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety, these parts are marked by  symbol on the schematic circuit diagrams and replacement part list. It is essential that these safety critical components are replaced with the manufacturer's specified parts to prevent electric shock, fire, or other hazards. Do not attempt to modify the original design without permission of the manufacturer.


#### REMARQUES DE SECURITE IMPORTANTE

Il y a des composants spéciaux utilisés dans cet appareil qui sont importants pour la sécurité. Ces pièces sont repérées par un symbole  sur les schémas de principes et la liste de pièces détachées. Il est essentiel que ces composants de sécurité soient remplacés par les pièces spécifiques du constructeur pour éviter les chocs électriques, feux ou autres risques. Ne tentez pas de modifier la conception originale sans autorisation du constructeur.


#### WICHTIGER SICHERHEITSHINWEIS

In diesem Gerät wurden sicherheitsrelevante  Komponenten verwendet. Diese Teile sind im Schaltbild und in der Ersatzteilliste mit einem Symbol markiert. Es ist wichtig, dass diese kritischen Komponenten ausschließlich durch solche ersetzt werden, die den Spezifikationen des Herstellers entsprechen. Die Produkthaftung des Herstellers erlischt bei Einsatz von nicht den Spezifikationen entsprechenden Sicherheitsbauteilen und bei eigenmächtigen Schaltungsänderungen.

#### IMPORTANTE INFORMAZIONE DI SICUREZZA

Ci sono speciali componenti usati in questa apparecchiatura che sono importanti per la sicurezza, queste parti sono facilmente identificabili, sullo schema e sulla lista parti, da un apposito simbolo . È indispensabile che questi componenti di sicurezza, nel caso di alterazioni o guasti, vengano sostituiti con specifici ricambi originali per evitare shock elettrici, fuoco o altri rischi. Non modificare mai il circuito senza autorizzazione della casa costruttrice.

#### AVISO IMPORTANTE SOBRE SEGURIDAD

En este equipo se utilizan componentes especiales que son muy importantes para la seguridad, están marcados con el símbolo  en los esquemas eléctricos y en las listas de repuestos. Es fundamental que estos componentes críticos de seguridad, sean reemplazados por las piezas originales indicadas por el fabricante para evitar los peligros de electrocución, de fuego, etc. y no modificar el diseño original sin autorización del fabricante.

### EN Prevention of electro static discharge (esd) to Electrostatically Sensitive Devices (ESD)

Some semiconductor devices can be damaged easily by static electricity (integrated circuits, some field-effect transistors and semiconductor chip components). The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground or wear a discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device.
5. Do not use freon-propelled chemicals.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it.
7. Immediately before removing the protective materials from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.  
CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ESD devices

### FR Prévention contre les décharges électrostatiques (esd) des appareils sensibles à l'électricité statique (ESD).

Certains semi-conducteurs peuvent être facilement endommagés par l'électricité statique (les circuits intégrés et certains transistors à effet de champs et les composants semi-conducteurs de type chip). Les techniques suivantes doivent être utilisées pour réduire l'incidence des dommages causés par l'électricité statique.

1. Immédiatement avant de manipuler tout composant semi-conducteur ou ensemble équipé de semi-conducteurs, éliminez toute charge électrostatique de votre corps en touchant une terre connue. Ou bien, mettez un bracelet antistatique, qui doit être retiré, pour des raisons de choc électrique, avant de mettre l'appareil sous tension.
2. Après démontage d'un ensemble électrique équipé d'éléments ESD, placez l'ensemble sur une surface conductrice telle qu'une feuille d'aluminium.
3. N'utilisez qu'un fer à souder relié à la masse pour souder ou dessouder les appareils ESD.
4. Pour dessouder, n'utilisez que du matériel antistatique.
5. N'utilisez pas de produits chimiques à propulsion de fréon.
6. Ne retirez pas de composant ESD de leur emballage de protection jusqu'à ce que vous soyez prêt à l'installer.
7. Juste avant de retirer la protection des broches du composant ESD, touchez la protection sur le châssis ou le circuit dans lequel le composant va être installé.  
ATTENTION : Assurez-vous que le châssis ou le circuit n'est pas sous tension, et observez toutes les autres précautions de sécurité.
8. Minimisez les déplacements corporels lorsque vous manipulez un composant ESD de remplacement déballé.

### DE Vermeidung von Elektrostatischer Entladung (ESD)

Manche elektronische Komponenten wie Transistoren, Integrierte Schaltkreise oder Chipelemente können leicht durch ESD beschädigt oder zerstört werden. Die folgenden Richtlinien helfen Schäden durch ESD zu vermeiden.

1. Unmittelbar vor dem Hantieren Halbleitern oder Baugruppen mit Halbleitern leiten Sie die statische Aufladung Ihres Körpers durch Berühren eines geerdeten Gegenstandes ab. Beschaffen Sie sich ein leitendes Handgelenkband. Dieses müssen Sie allerdings vor dem Einschalten des zu prüfenden Gerätes ablegen.
2. Nach dem Ausbau einer empfindlichen elektronischen Baugruppe legen Sie diese auf eine leitende Unterlage wie Aluminium-Folie um eine elektrostatische Entladung zu vermeiden.
3. Benutzen Sie für Lotarbeiten an empfindlichen Komponenten einen geerdeten Lötkolben.
4. Benutzen Sie antistatisches Entlötwerkzeug.
5. Verwenden Sie keine Sprays, die Freon als Treibmittel enthalten. Diese können ausreichend elektrostatische Ladung erzeugen, um empfindliche Komponenten zu beschädigen.
6. Entfernen Sie die Antistatik-Schutzverpackung (Alu-Folie, Leitgummi, Leitfolie, ...) von Komponenten und Baugruppen erst wenn Sie diese benötigen.
7. Unmittelbar vor dem Entfernen der Schutzverpackung führen Sie ein Potentialausgleich durch Berühren des Gerätes mit der Komponente/Baugruppe durch. ACHTUNG: Stellen Sie sicher, dass das Gerät nicht unter Spannung steht und beachten Sie alle einschlägigen Sicherheitsvorschriften.
8. Bewegen Sie sich beim Hantieren mit empfindlichen Komponenten/Bausteinen möglichst wenig, da die Reibung Ihrer Kleidung oder der Füße auf dem Bodenbelag elektrostatische Ladung erzeugen kann.

### IT Azioni preventive contro le scariche elettrostatiche (esd) sui Dispositivi Sensibili Elettrostaticamente (ESD)

Alcuni semiconduttori possono essere facilmente danneggiati da elettricità statica (circuiti integrati, alcuni transistor ad effetto di campo e componenti chip semiconduttori). Al fine di ridurre l'incidenza dei componenti danneggiati a causa di elettricità statica si dovrebbero osservare le seguenti precauzioni.

1. Immediatamente prima di maneggiare qualsiasi tipo di componente semiconduttore o di apparecchio che impiega semiconduttori, scaricare le possibili cariche elettrostatiche del proprio corpo toccando un punto sicuramente collegato a terra. In alternativa, indossare un apposito bracciale antistatico che dovrebbe però essere tolto, per possibili potenziali shock, immediatamente prima di alimentare l'apparecchiatura sotto test.
2. Dopo il disimballo porre l'apparecchiatura equipaggiata con dispositivi ESD su una superficie conduttiva tipo foglio di alluminio.
3. Usare saldatori con punta a massa per saldare o dissaldare dispositivi ESD.
4. Usare solo saldatori antistatici.
5. Non usare prodotti chimici tipo freon.
6. Rimuovere il dispositivo ESD dal suo imballo protettivo solo immediatamente prima del suo utilizzo.
7. Immediatamente prima della rimozione del materiale protettivo dai piedini del dispositivo ESD di ricambio, toccare con il materiale protettivo il telaio o la massa del circuito stampato dove il dispositivo deve essere inserito.  
ATTENZIONE : Assicurarsi che il circuito o il telaio non sia alimentato, e osservare tutte le altre precauzioni di sicurezza.
8. Limitare gli spostamenti quando si maneggia un dispositivo ESD disimballato.

### ES Prevención contra descargas electro-estáticas (esd) para los DISPOSITIVOS SENSIBLES electrostáticamente (ESD)

Algunos dispositivos semiconductores, pueden ser dañados fácilmente por la electricidad estática (los circuitos integrados, algunos transistores de Efecto de Campo y los semiconductores "chip"). Las siguientes técnicas pueden ser utilizadas para ayudar a reducir la destrucción de los componentes causada por la electricidad estática.

1. Inmediatamente antes de manejar cualquier componente semiconductor o conjunto equipado con semiconductores, elimine la carga electrostática de su cuerpo tocando alguna toma de tierra conocida o utilizar una correa conductora conectada a una toma de tierra que se pone en la muñeca la cual debe ser quitada (por razones de seguridad) antes de conectar la alimentación al equipo bajo prueba.
2. Después de quitar un conjunto equipado con componentes ESD, coloque el conjunto sobre una superficie conductora, como papel aluminio.
3. Utilizar únicamente soldadores con la punta conectada a la toma de tierra para soldar o desoldar componentes ESD.
4. Utilizar solamente soldadores antiestáticos para quitar componentes.
5. No utilizar productos químicos con gas freón como propelente.
6. No sacar de su embalaje protector el nuevo componente ESD hasta inmediatamente antes de estar todo preparado para montarlo.
7. Inmediatamente antes de quitar los materiales de protección de las patillas del componente, tocar el material protector al chasis del conjunto donde se vaya a montar el componente.  
CUIDADO : Asegúrese de que la alimentación no esté aplicada al chasis o circuito, y cumpla todas las precauciones de seguridad.
8. Maneje sin movimientos bruscos el componente ESD una vez desempaqueado.

**SERVICE POSITION - POSITION SERVICE - SERVICESTELLUNG -  
POSIZIONE SERVIZIO - POSICIÓN SERVICIO**

**A - CHASSIS - CHASIS**

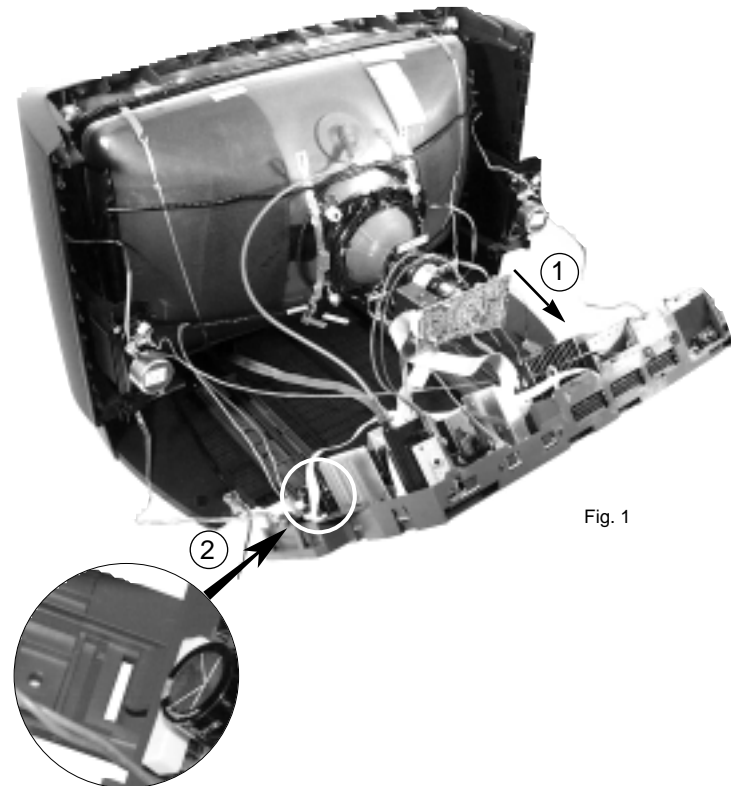


Fig. 1

- 1- Raise lightly the chassis, pull it (1) up to an intermediate position to get free.
- 2- Tip the chassis and insert the small tongue (2) in extremity of the maintain rail to fix the chassis in service position (Fig.1).

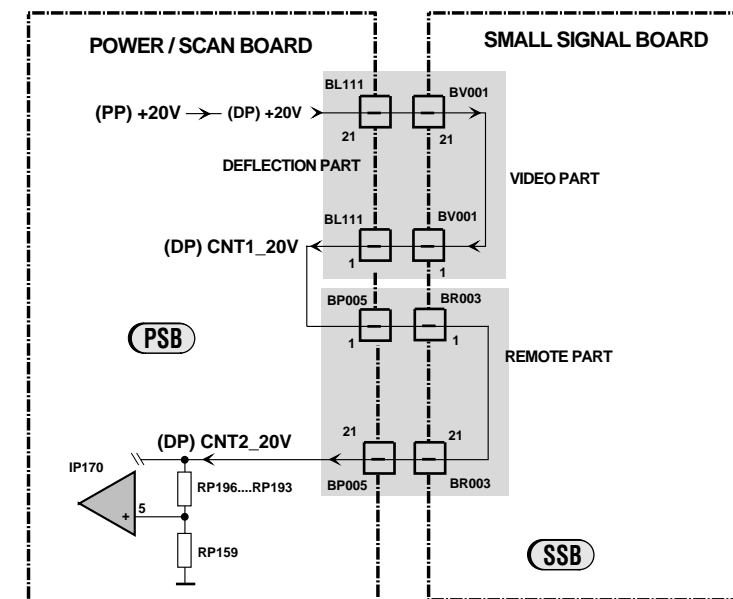
- 1- Soulever légèrement le chassis et le tirer (1) jusqu'à une position intermédiaire pour le dégager.
- 2- Basculer le chassis et engager les languettes (2) en extrémité des réglottes de maintien pour fixer le chassis en position de service (Fig.1).

- 1- Heben Sie das Chassis leicht an und ziehen es nach hinten halb heraus. Heben Sie das Chassis aus den Führungsschienen.
- 2- Kippen Sie das Chassis und hängen es mit den Laschen (2) am Chassisrahmen in die sich am Ende der Führungsschienen befindlichen Ösen (Fig.1) ein.

- 1- Sollevare leggermente il telaio e tirarlo (1) fino ad una posizione intermedia per poterlo estrarre.
- 2- Inclinare e inserire le linguette (2) nelle apposite guide per mantenere il telaio fisso nella posizione service(Fig.1)

- 1- Alzar ligeramente el chasis, y dejarlo en una posición intermedia (1)
- 2- Bascular el chasis e insertar las lengüetas (2) en los extremos, para mantener el chasis fijo en la posición de servicio (Fig. 1).

**CONNECTING SAFETY POWER BOARD / SIGNAL BOARD  
SECURITE DE CONNEXION PLATINES PUISSANCE / PETITS SIGNAUX  
VERBINDER ZWISCHEN NETZTEIL/ABLENK-PLATINE UND SIGNAL-PLATINE  
COLLEGAMENTI DI SICUREZZA DELLA PIASTRA POTENZA/PIASTRA SEGNALI  
CONEXIONES DE LA SEGURIDAD ENTRE LA PLACA ALIMENTACIÓN / SEÑAL**



**(GB)**

The 20V voltage which is fed in a loop CNT1\_20V => CNT2\_20V through the connectors going to the signal processing boarder in order to insure a good connection between both boards and to protect the PSB and the SSB boards :

CNT1\_20V => safety of the sheet BL111 / BV001

CNT2\_20V => safety of the sheet BP005 / BR003

If one of these voltage does not exist (20V comprise) the IP170 output will be 0 and the phototransistor IP070 is blocked and the set will be in standby.

**(F)**

Le cheminement de la tension 20V par la platine petits signaux est effectué sous forme de boucle CNT1\_20V => CNT2\_20V afin de protéger les platines PSB et SSB en cas de mauvaise connexion des nappes BR003 et BV003.

CNT1\_20V => sécurité de la nappe BL111 / BV001

CNT2\_20V => sécurité de la nappe BP005 / BR003.

Si l'une de ces tensions (20V inclu) n'est pas présente la sortie de IP170 passe à 0 entraînant le blocage du phototransistor IP070 et par suite le passage en standby.

**(D)**

Um die PSB- und die SSB-Platinen zu schützen und um eine sichere Betriebsspannungsversorgung dieser Platinen zu gewährleisten, ist die +20V-Versorgungsschiene (CNT1\_20V => CNT2\_20V) über die Verbinder BV001 und BR003 durchgeschleift.

CNT1\_20V => Schutz über Flachbandkabel BL111 / BV001

CNT2\_20V => Schutz über Flachbandkabel BP005 / BR003

Sollte eine dieser Betriebsspannungen fehlen, wird der Ausgang des IC IP170 (Pin 7) 0V, der Fototransistor im Optokoppler IP070 sperrt und das Gerät schaltet in Standby.

**(I)**

L'alimentazione di 20V alla piastra elaborazione segnali viene fornita dai connettori CNT1\_20V => CNT2\_20V in modo da assicurare una protezione delle piastre PSB e SSB nel caso che si manifesta se un cattivo collegamento.

CNT1\_20V => protezione BL111 / BV001

CNT2\_20V => protezione BP005 / BR003

Se una di queste tensioni 20V non fosse presente l'uscita di IP170 passa a 0V determinando il blocco del phototransistor IP070 e il successivo passaggio in standby.

**(E)**

El recorrido de la tensión de 20V por la placa SSB se efectúa en forma de bucle CNT1\_20V => CNT2\_20V con el fin de proteger las placas PSB y SSB en el caso de un fallo de los conectores

CNT1\_20V => seguridad del mazo BL111 / BV001

CNT2\_20V => seguridad del mazo BP005 / BR003

Si una de estas tensiones faltan (incluidos los 20 V), la salida de IP70 será 0, el fototransistor IP070 se bloquea y el TV pasará a Standby (modo espera)

**B - POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE -  
PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS**

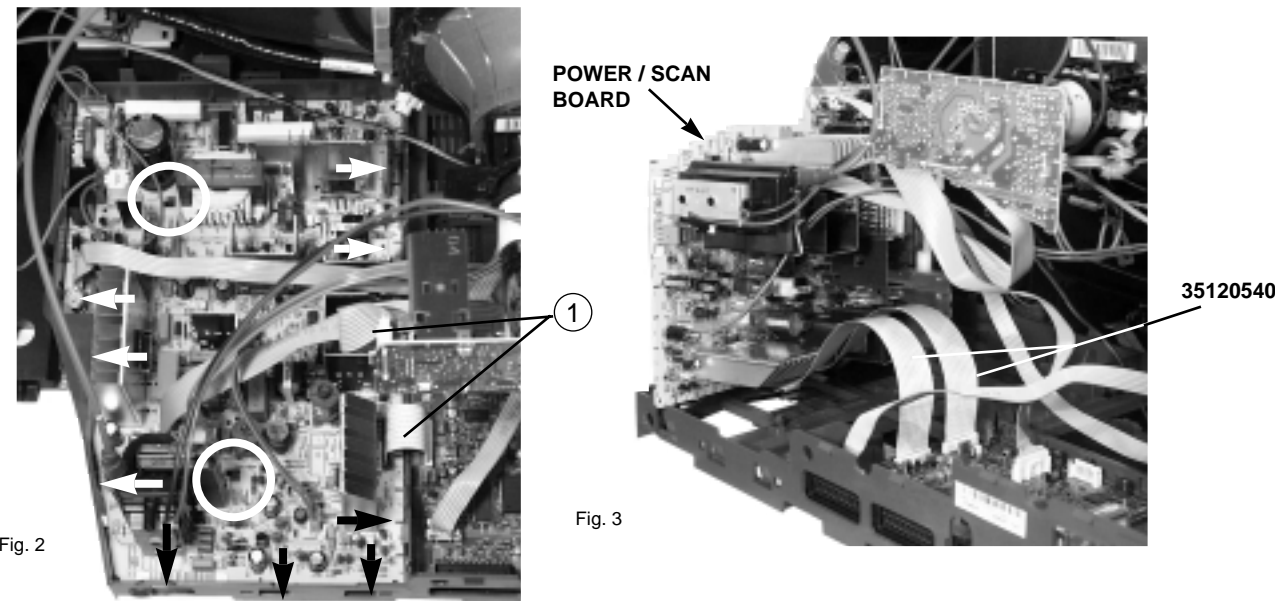


Fig. 2

Fig. 3

- 1 - Remove the two connection cable PSB/SSB (1) (Fig.2) and get free the "PSB" board from the chassis in pressing the maintain tongue (9 in periphery and 2 in the board) (Fig.2) . Put the two extension cable PSB/SSB (35120540) (Fig.3).
- 2 - Put the PSB board in service position (Fig. 3)

- 1 - Retirer les cordons de raccordement PSB/SSB (1) (Fig.2) et dégager la platine "PSB" du chassis en appuyant sur les languettes de maintien (9 en périphérie et 2 en interne) (Fig.2) . Mettre les cordons prolongateurs de raccordement PSB/SSB (35120540) (Fig.3).
- 2 - Mettre la platine PSB en position de service (Fig. 3)

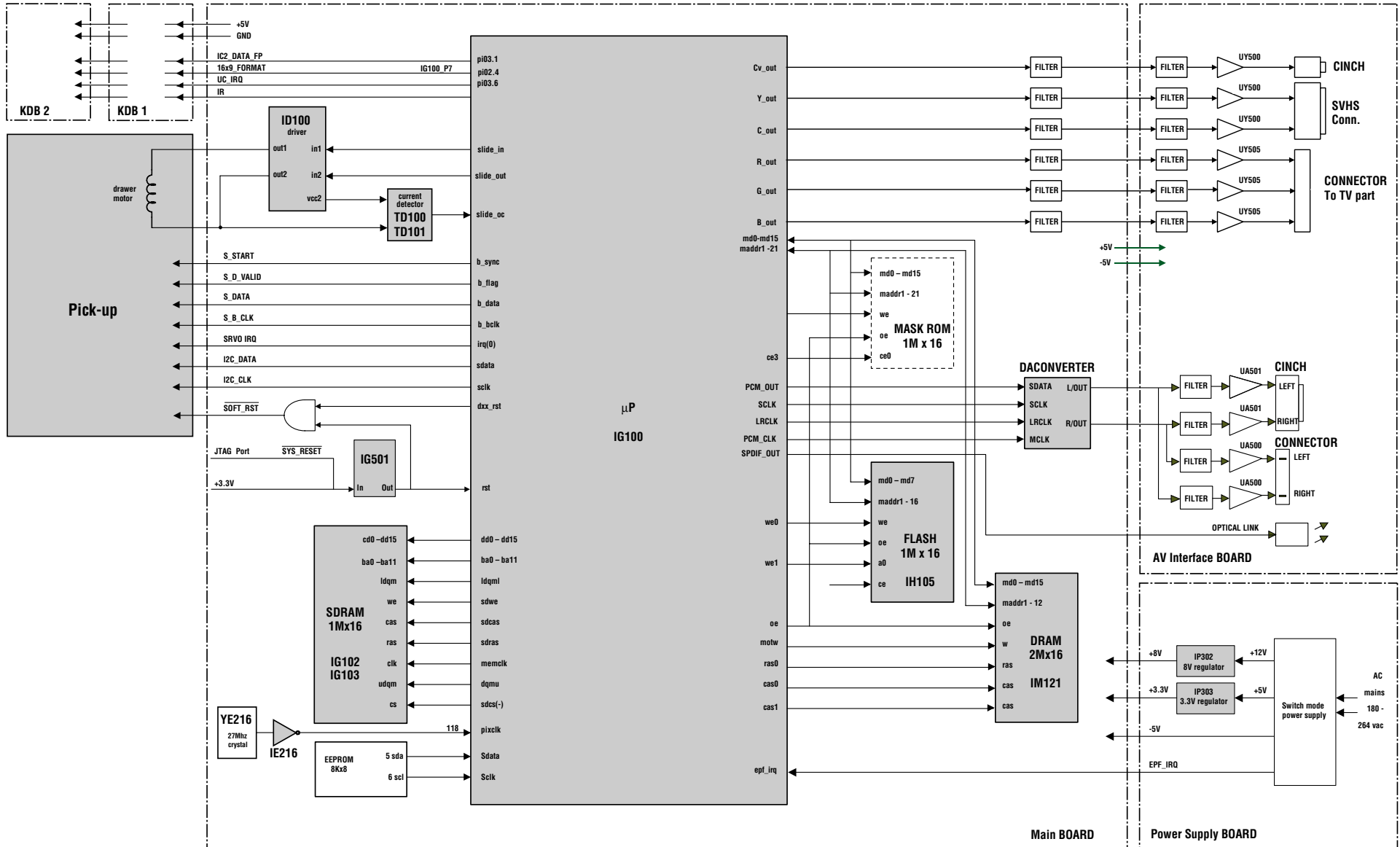
- 1 - Entfernen Sie die beiden Verbindungskabel PSB/SSB (1) (Fig.2). Zum Ausbau der PSB-Platine lösen Sie die 9 Halteklammern um die Platine herum und die 2 Klammern in der Platine wie (Fig.2) dargestellt. Stecken Sie die Verlängerungskabel PSB/SSB (35120540) (Fig.3) ein.
- 2 - Bringen Sie die PSB-Platine in die Service-Position (Fig. 3).

- 1 - Togliere i due cavi di collegamento PSB/SSB (1) (Fig.2) e liberare la piastra "PSB" dal telaio premendo le linguette di fissaggio (9 periferiche e due interne) collegare le prolunghe PSB/SSB (35120540) (Fig.3).
- 2 - Sistemare la piastra PSB in posizione di service (Fig. 3).

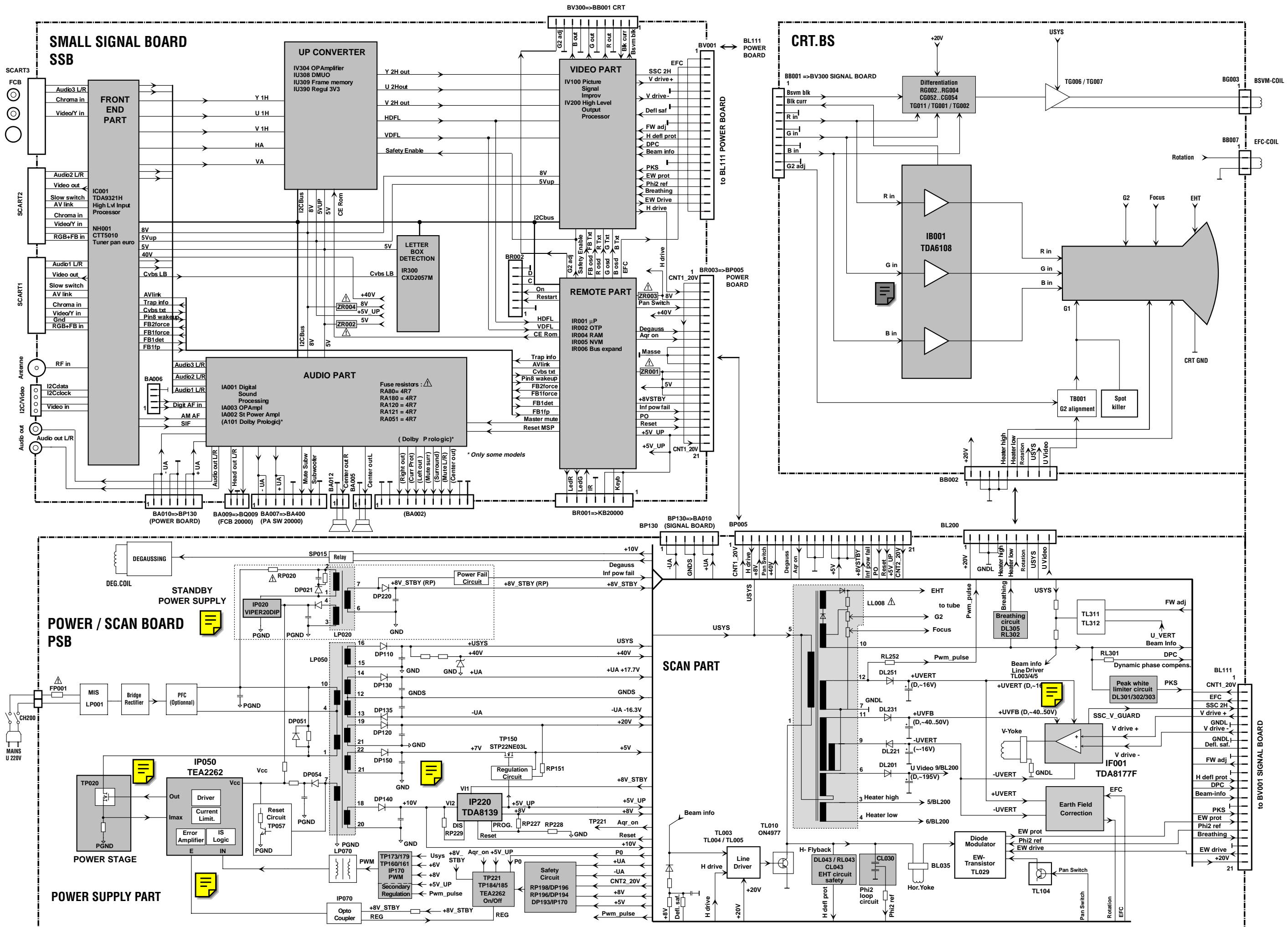
- 1 - Retirar los dos cables de conexión PSB/SSB (1) (Fig.2) y soltar la placa "PSB" del chasis presionando las lengüetas (9 en la periferia y 2 en la placa) (Fig. 2). Enchufar los dos cables prolongadores PSB/SSB (35120540) (Fig.3).
- 2 - Poner la placa PSB en la posición de servicio (Fig. 3)

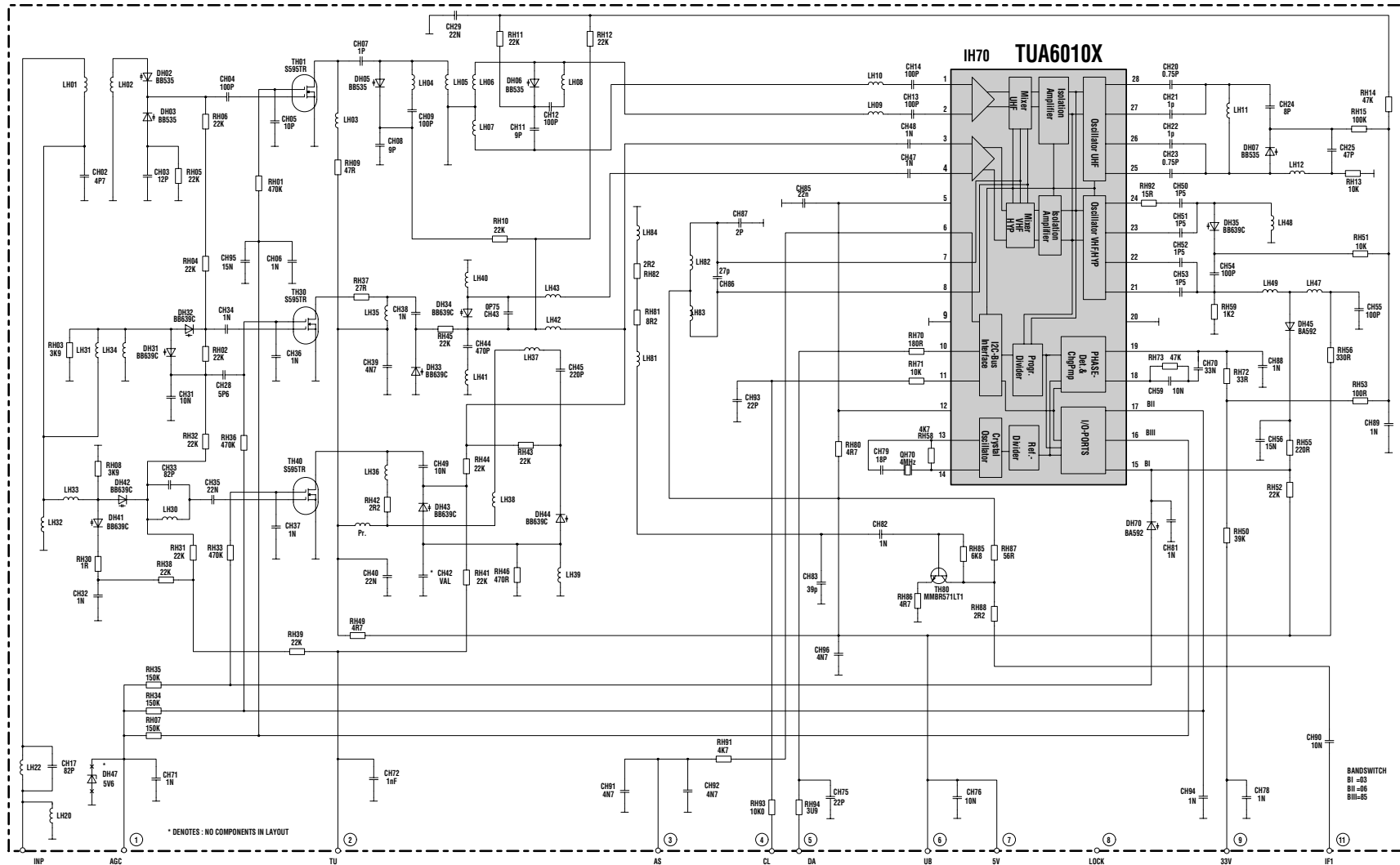


GENERAL BLOCK DIAGRAM - SYNOPTIQUE GÉNÉRAL - BLOCKSCHALTBIKD ALLGEMEIN - SCHEMA A BLOCCHI GENERALE - ESQUEMA DE BLOQUES GENERAL



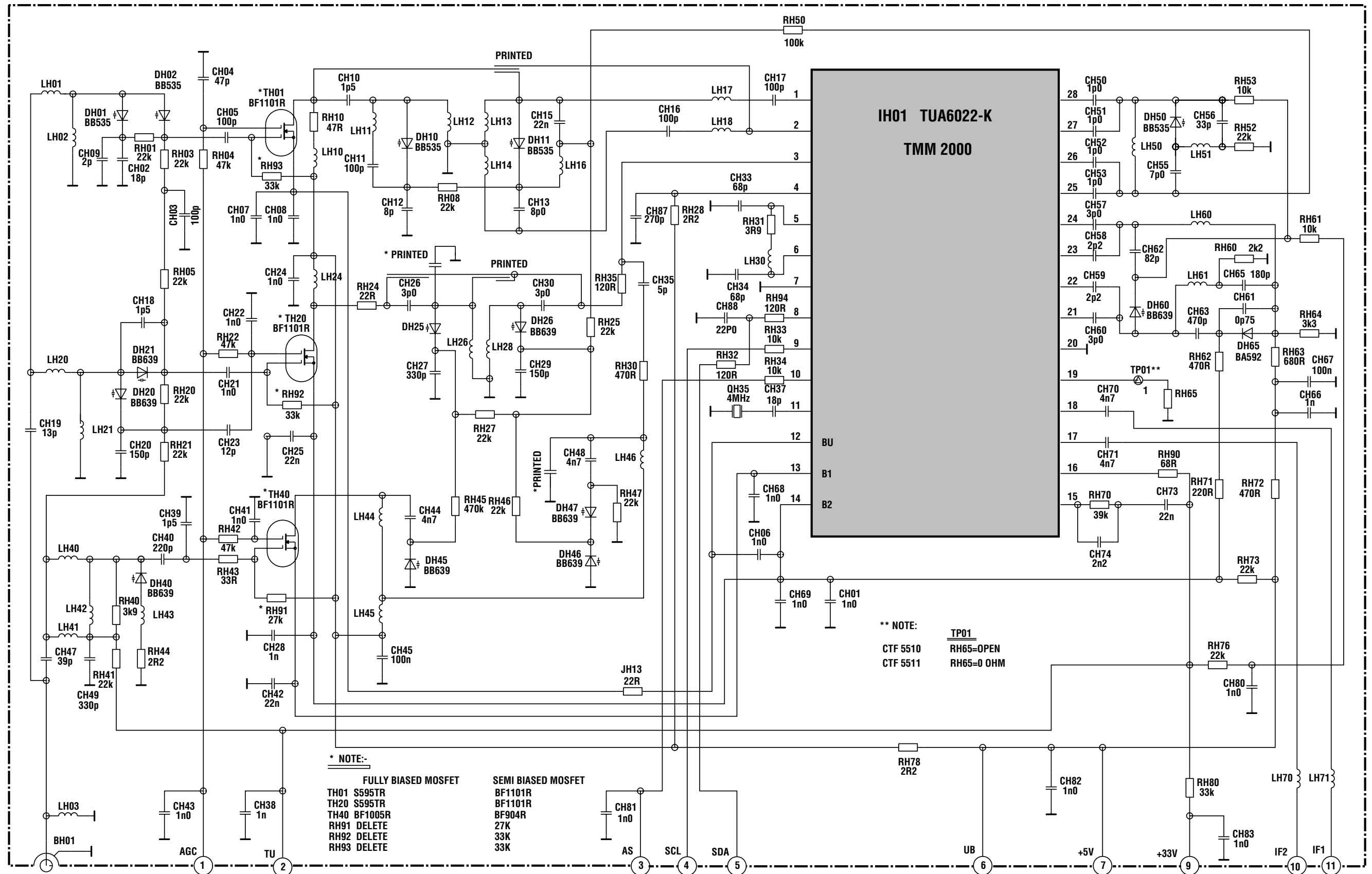
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIKD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



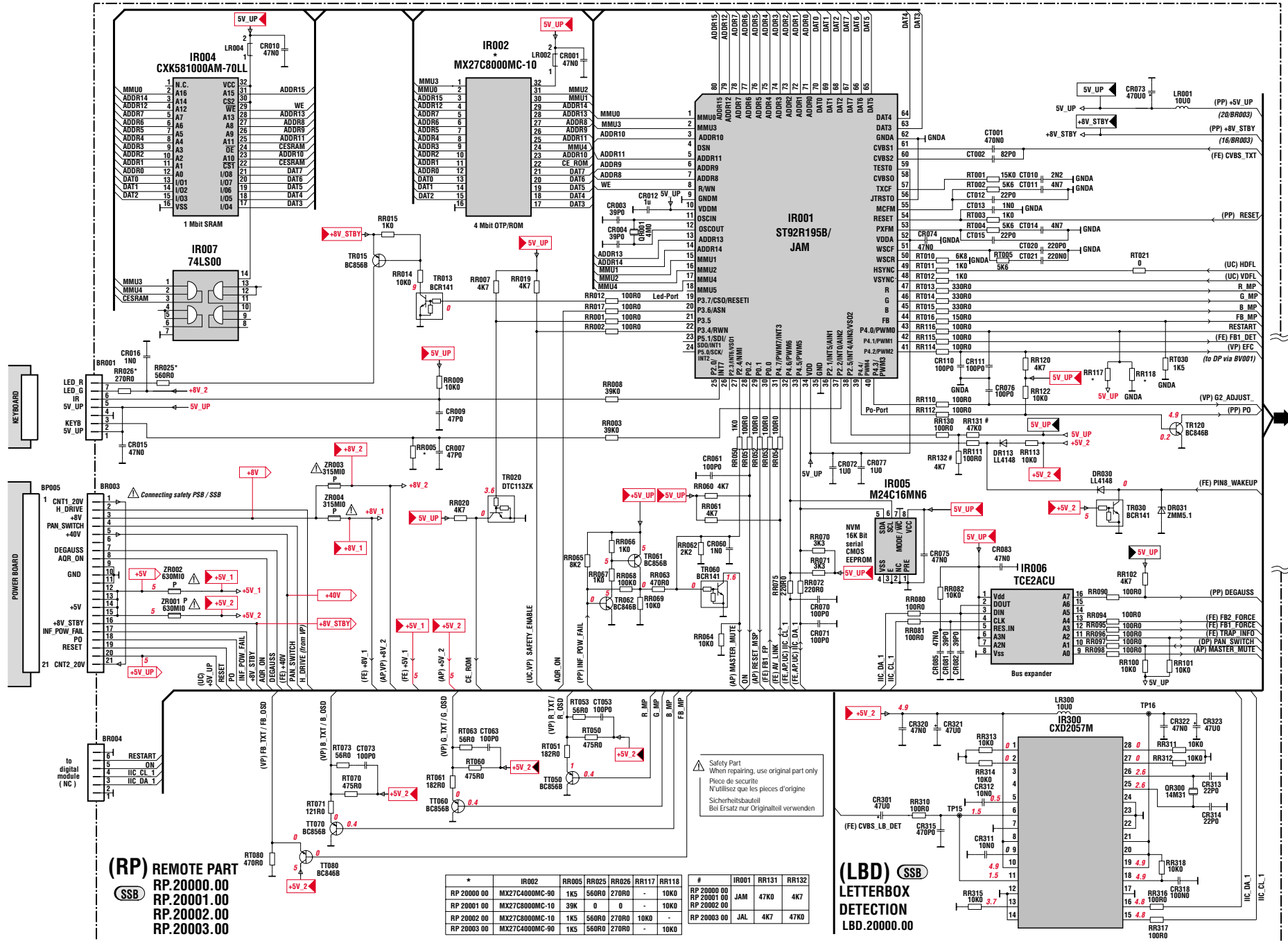




VHF / UHF TUNER CTF 5510A



SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL  
 REMOTE / MICROCONTROLLER - GESTION / MICROCONTROLEUR - FERNBEDIENUNGS- UND MICROCONTROLLERSTUFEN - MICROPROCESSORE - REMOTO / MICROCONTROLADOR



**(RP) REMOTE PART**  
 (SSB)  
 RP.20000.00  
 RP.20001.00  
 RP.20002.00  
 RP.20003.00

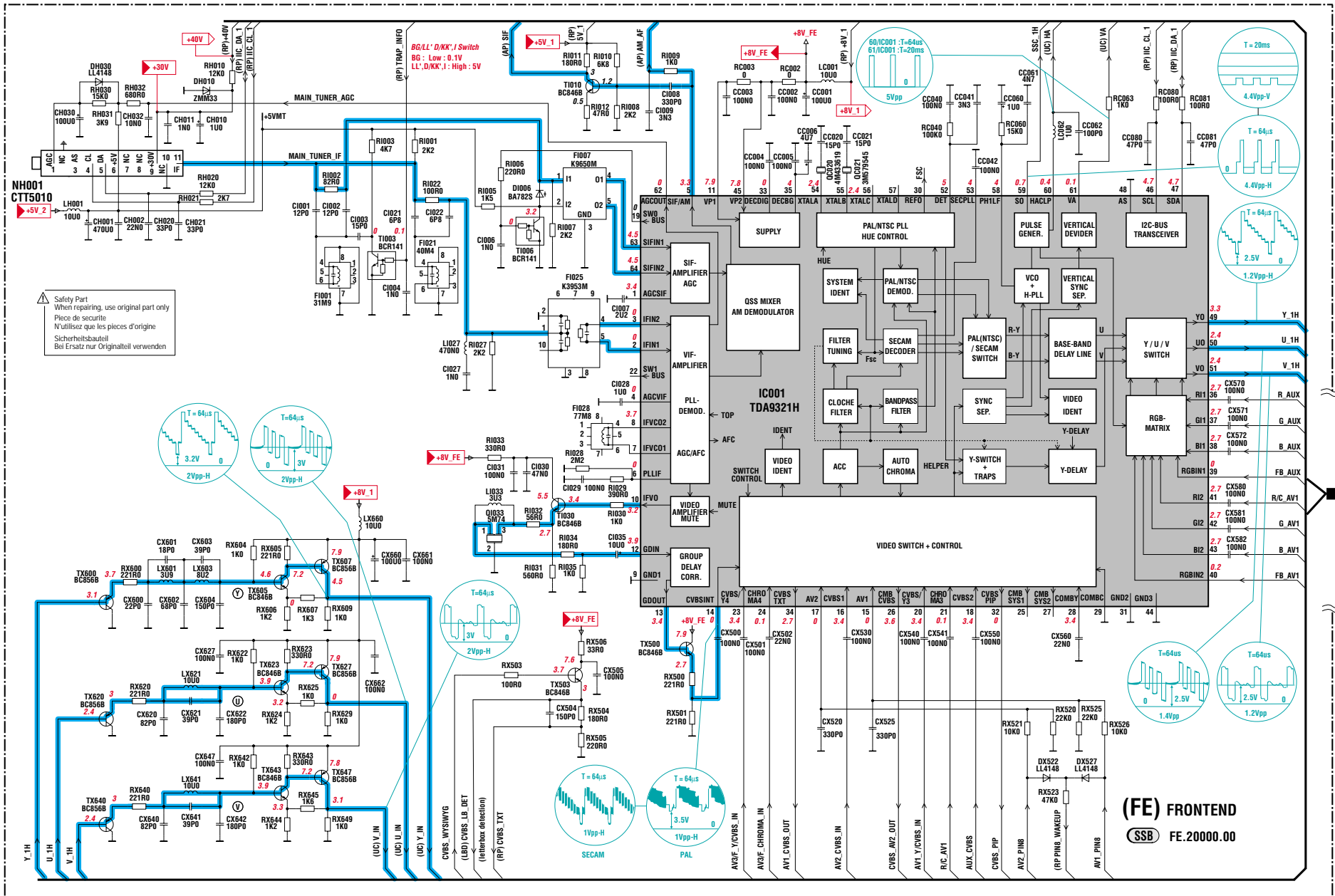
* IR002	RR005	RR025	RR026	RR117	RR118
RP.20000.00	MX27C4000MC-90	1K5	560R0	270R0	-
RP.20001.00	MX27C8000MC-10	39K	0	0	10K0
RP.20002.00	MX27C8000MC-10	1K5	560R0	270R0	10K0
RP.20003.00	MX27C4000MC-90	1K5	560R0	270R0	10K0

# IR001	RR131	RR132
RP.20000.00	JAM	47K0
RP.20001.00	JAM	47K0
RP.20002.00	JAM	47K0
RP.20003.00	JAL	47K0

**(LBD) (SSB)**  
**LETTERBOX DETECTION**  
 LBD.20000.00

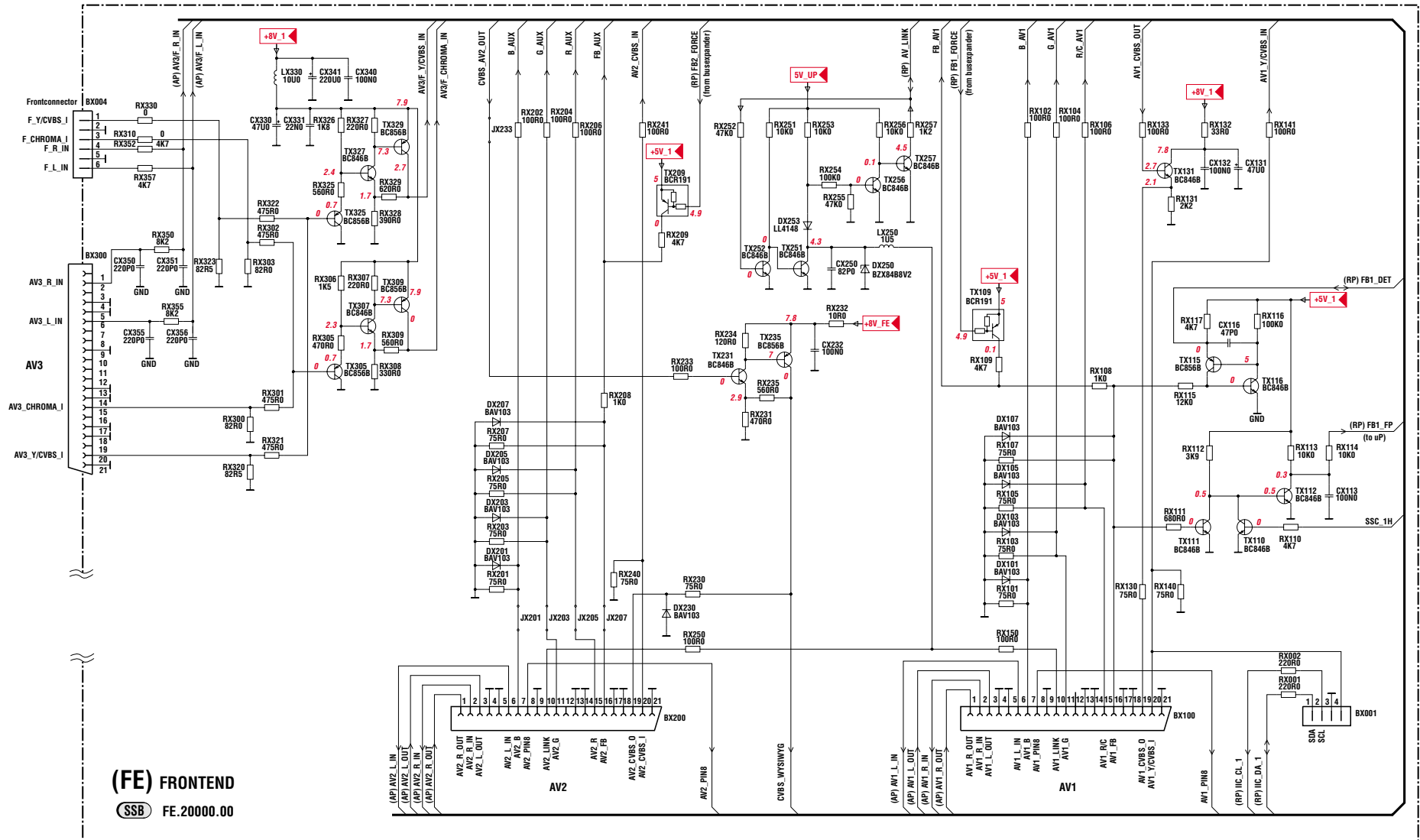
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL  
 FRONTEND PART (1) - EINGANGSSTUFEN (1) - PRESE FRONTALI (1) - FRONT END PART (1)

RF/FI / VIDEO SIGNAL PROCESSING - HF/FI / TRAITEMENT LUMINANCE CHROMINANCE - HF-, ZF- UND VIDEO-SIGNALVERARBEITUNG - RF/FI / ELABORAZIONE SEGNALE VIDEO - RF/FI / TRATAMIENTO SEÑAL VIDEO

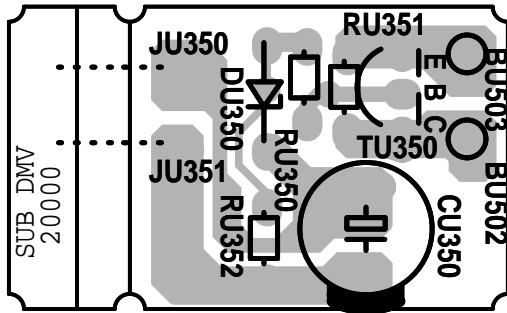
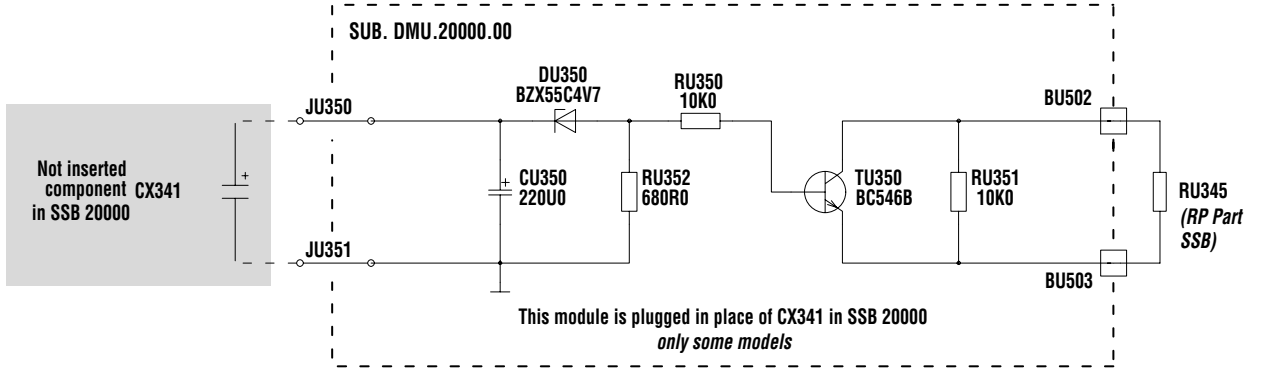


**SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL  
FRONTEND PART (2) - EINGANGSSTUFEN (2) - PRESE FRONTALI (2) - FRONT END PART (2)**

**SCART INTERFACE - INTERFACE PERITELEVISION - SCART INTERFACE - PRESA PERITEL- EUROCONECTOR**

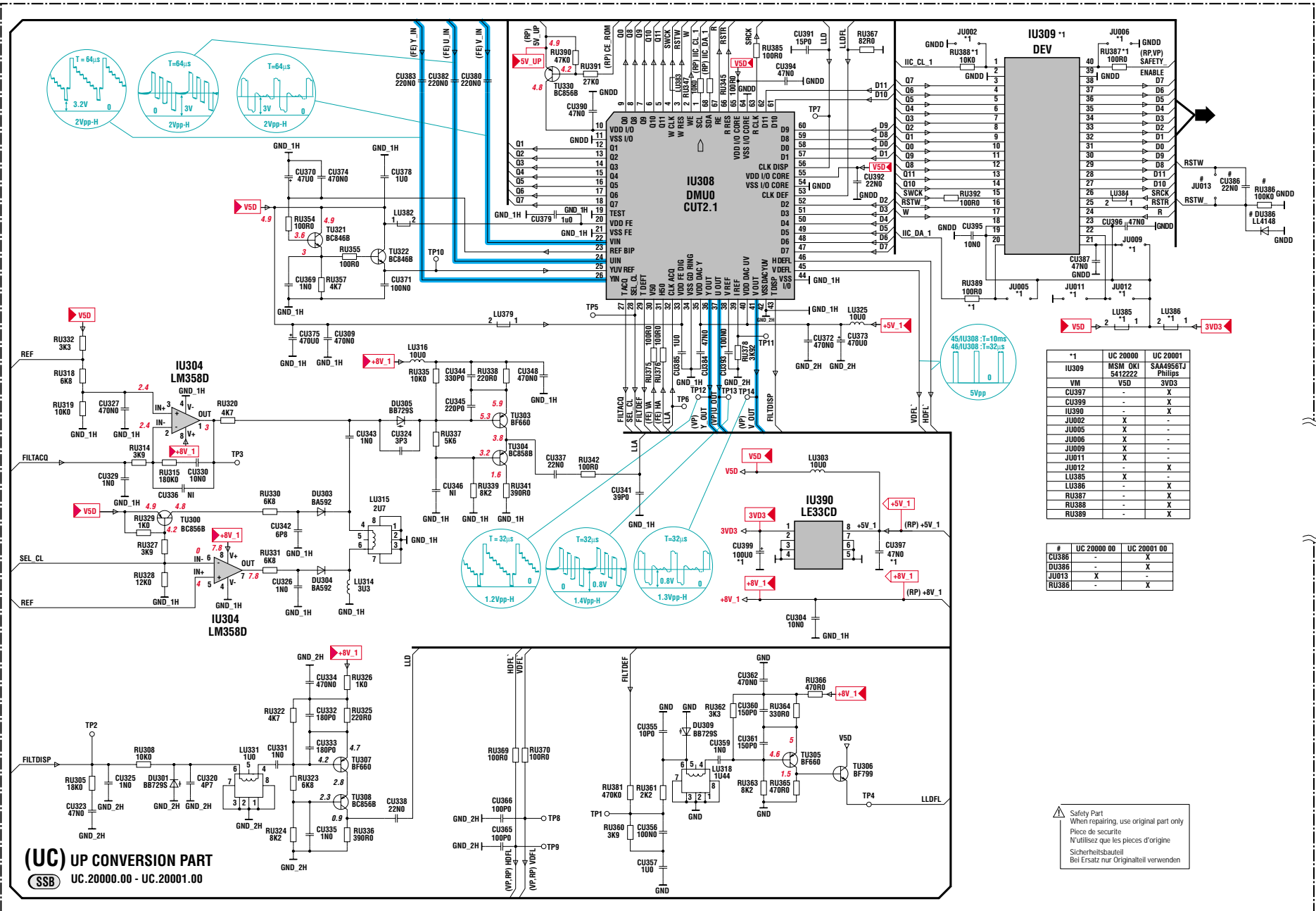


# SUB.DMU.20000.00





SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL  
 UPCONVERTER PART - PARTIE CONVERSION - UPCONVERTER STUFEN - CIRCUITO UPCONVERTER - SUPRACONVERSOR

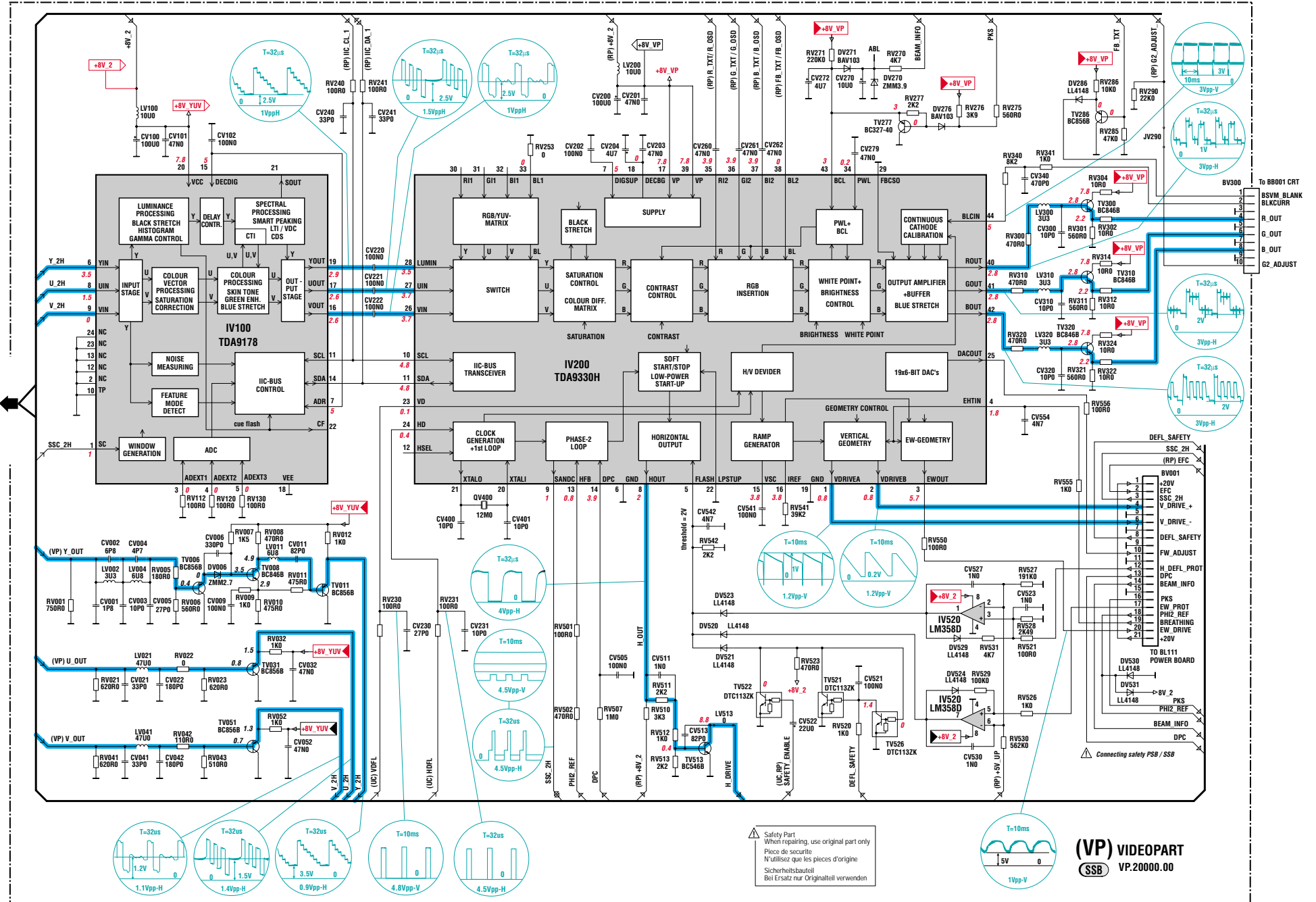


*1	UC 20000	UC 20001
IU309	MSM OKI 5412222	SA4956TJ Philips
VIN	V5D	3V03
IU399	-	X
IU390	-	X
JU002	X	-
JU005	X	-
JU006	X	-
JU009	X	-
JU011	X	-
JU012	-	X
LU385	X	-
LU386	-	X
RU387	-	X
RU388	-	X
RU389	-	X

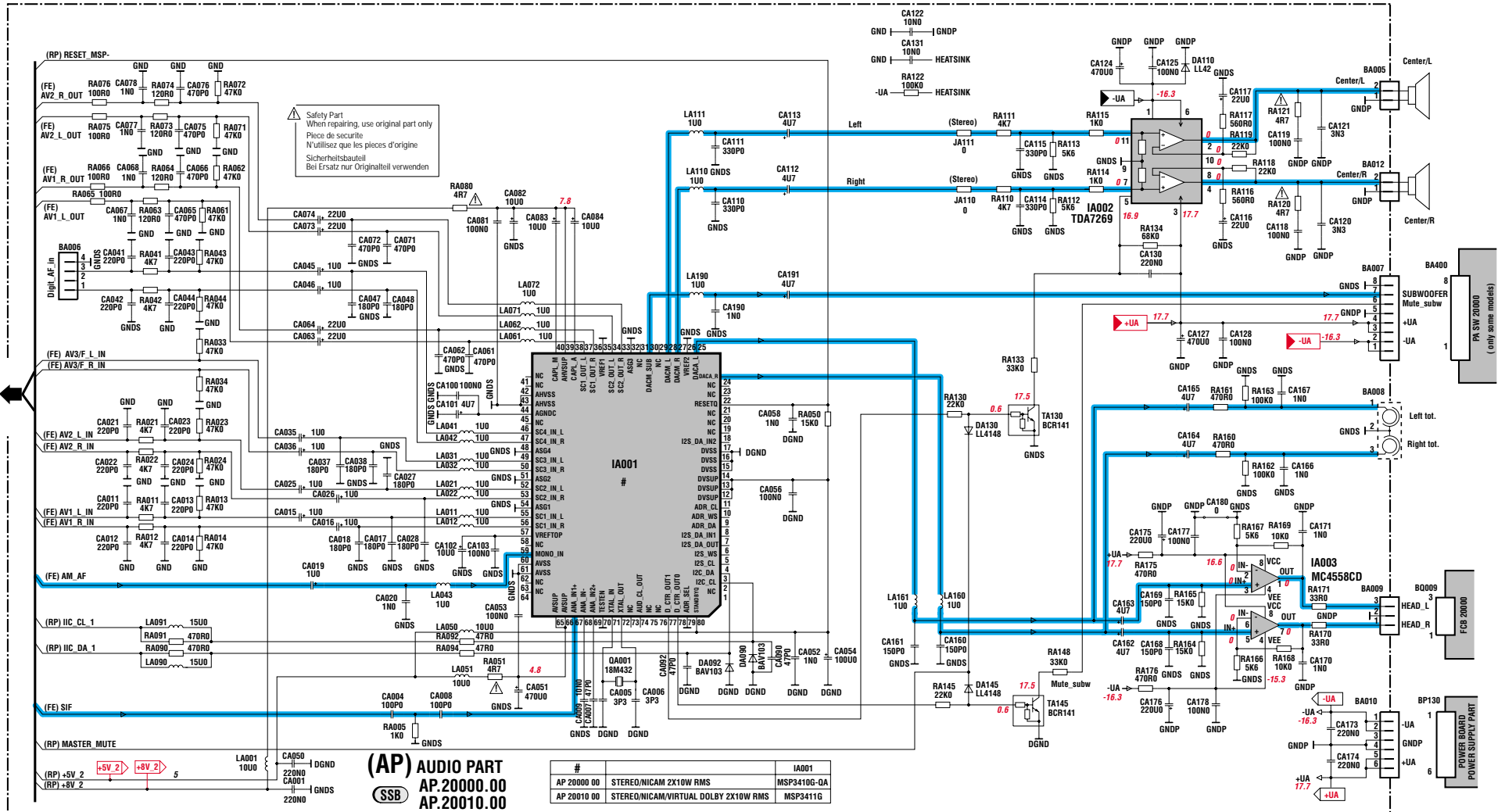
#	UC 20000 00	UC 20001 00
CU386	-	X
IU309	X	-
RU386	-	X

**⚠ Safety Part**  
 When repairing, use original part only  
 Pièce de sécurité  
 N'utilisez que les pièces d'origine  
 Sicherheitsbauteil  
 Bei Ersatz nur Originalteil verwenden

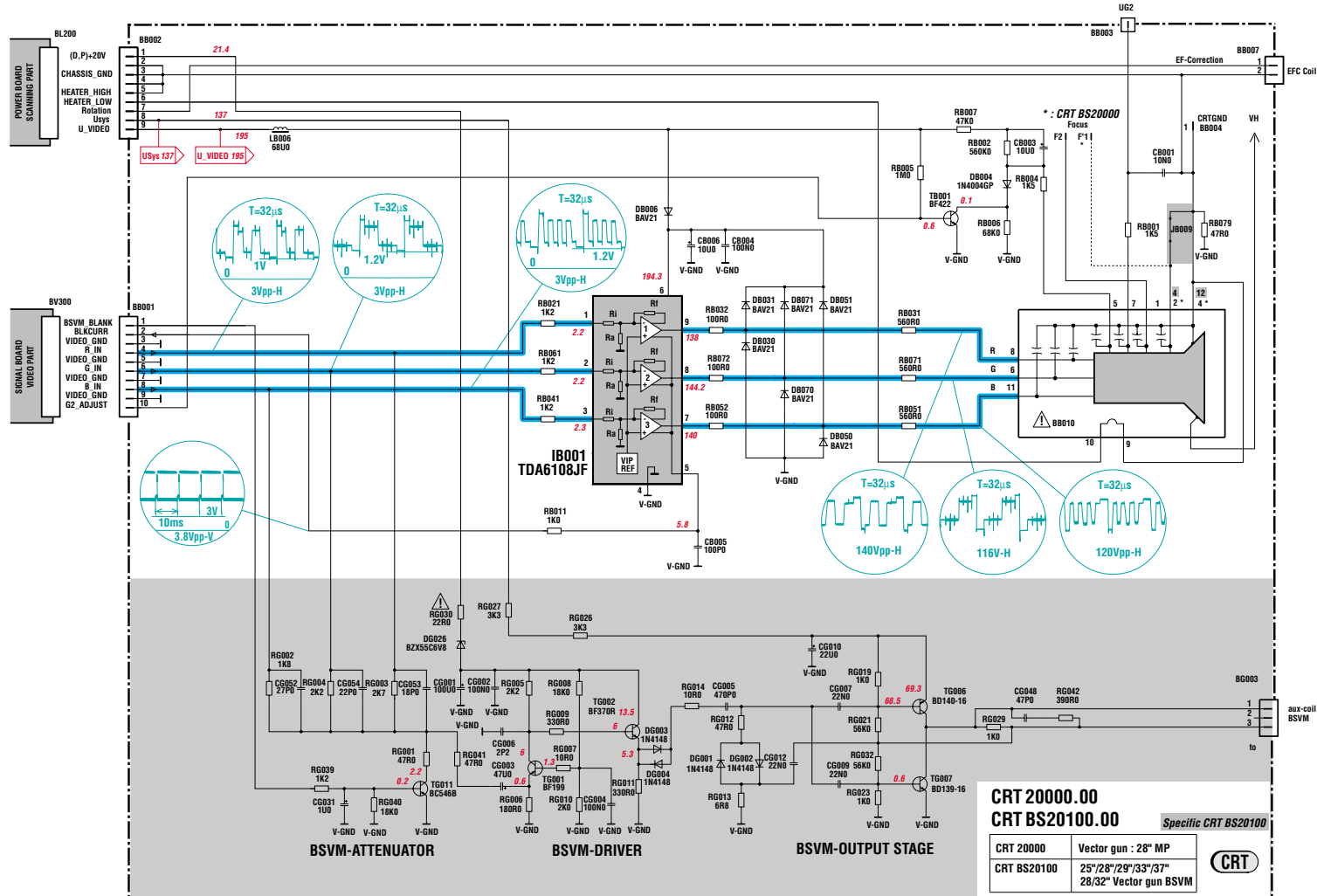
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL  
 VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO



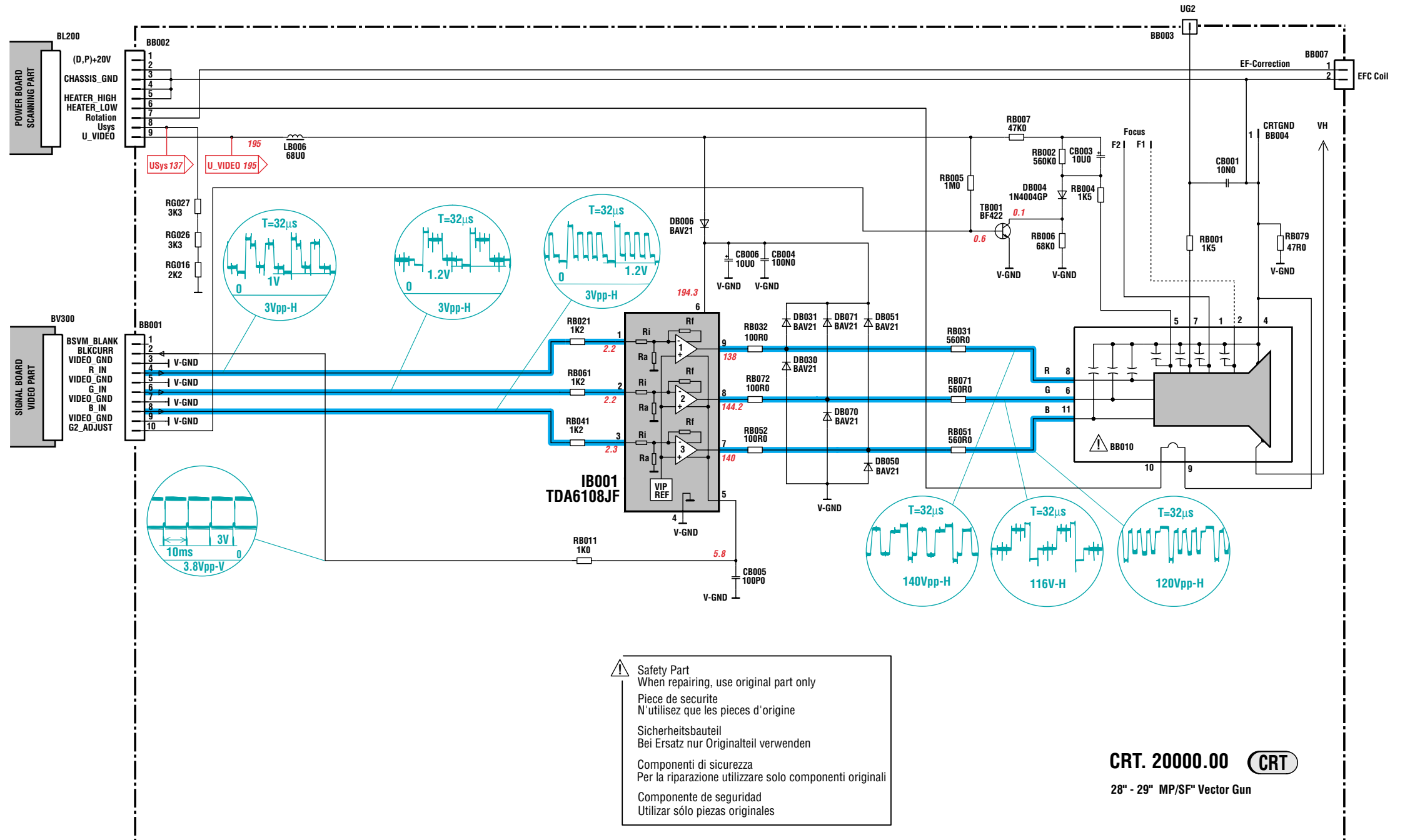
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL  
 AUDIO PART - PARTIE AUDIO - AUDIOSTUFEN - CIRCUITO AUDIO - AUDIO



VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO  
 CRT 20000.00 - CRT BS20100.00

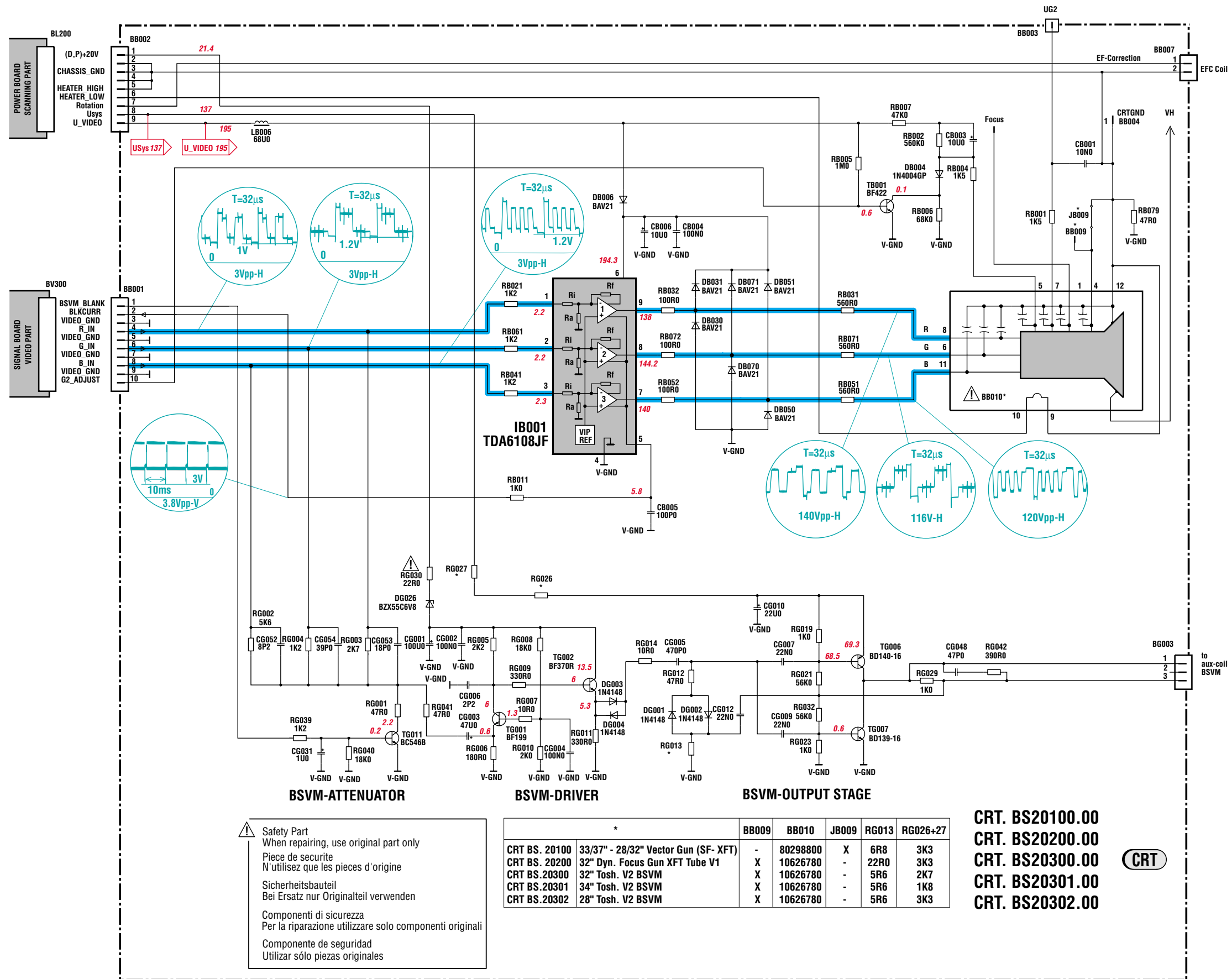


VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO  
 CRT. 20000.00

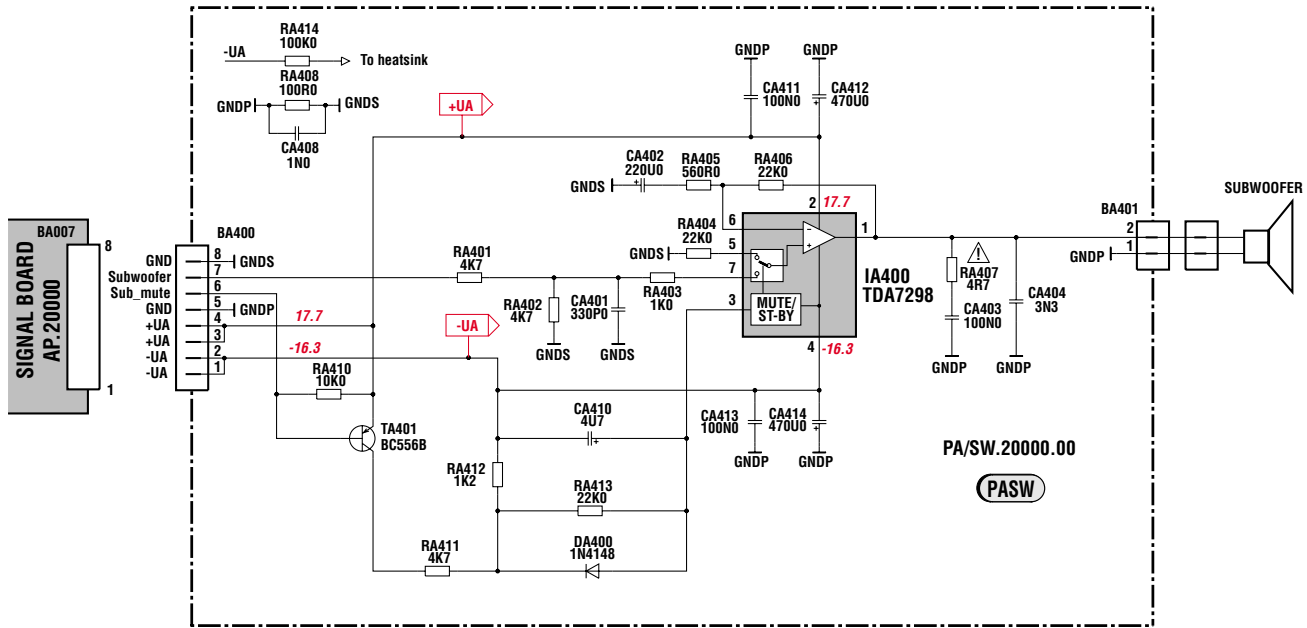




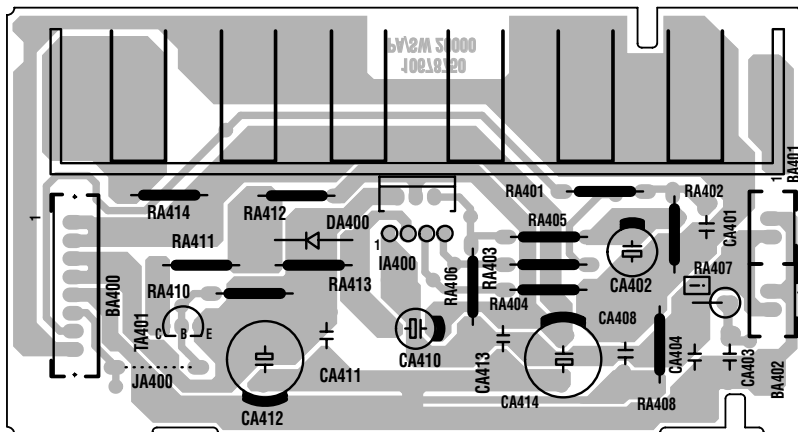
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO  
 CRT. BS.20100.00 - CRT. BS.20200.00 - CRT. BS.20300.00 - CRT. BS.20301.00 - CRT. BS.20302.00



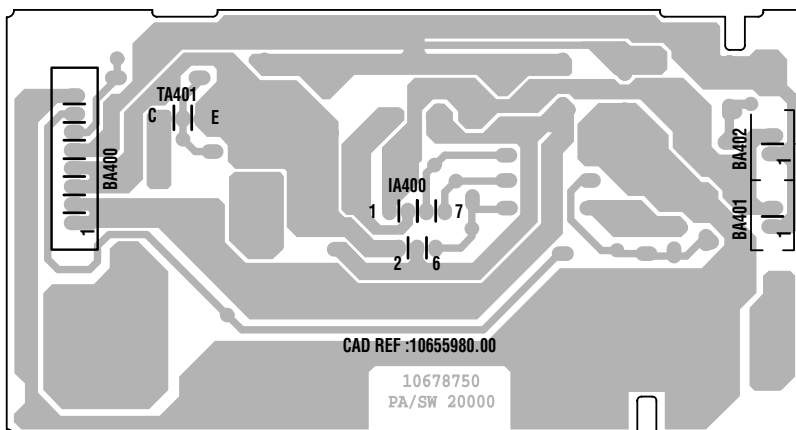
**SUBWOOFER AMPLIFIER - AMPLIFICATEUR SUBWOOFER - SUBWOOFER VERSTÄRKER -  
AMPLIFICATORE SUBWOOFER - AMPLIFICADOR SUBWOOFER**



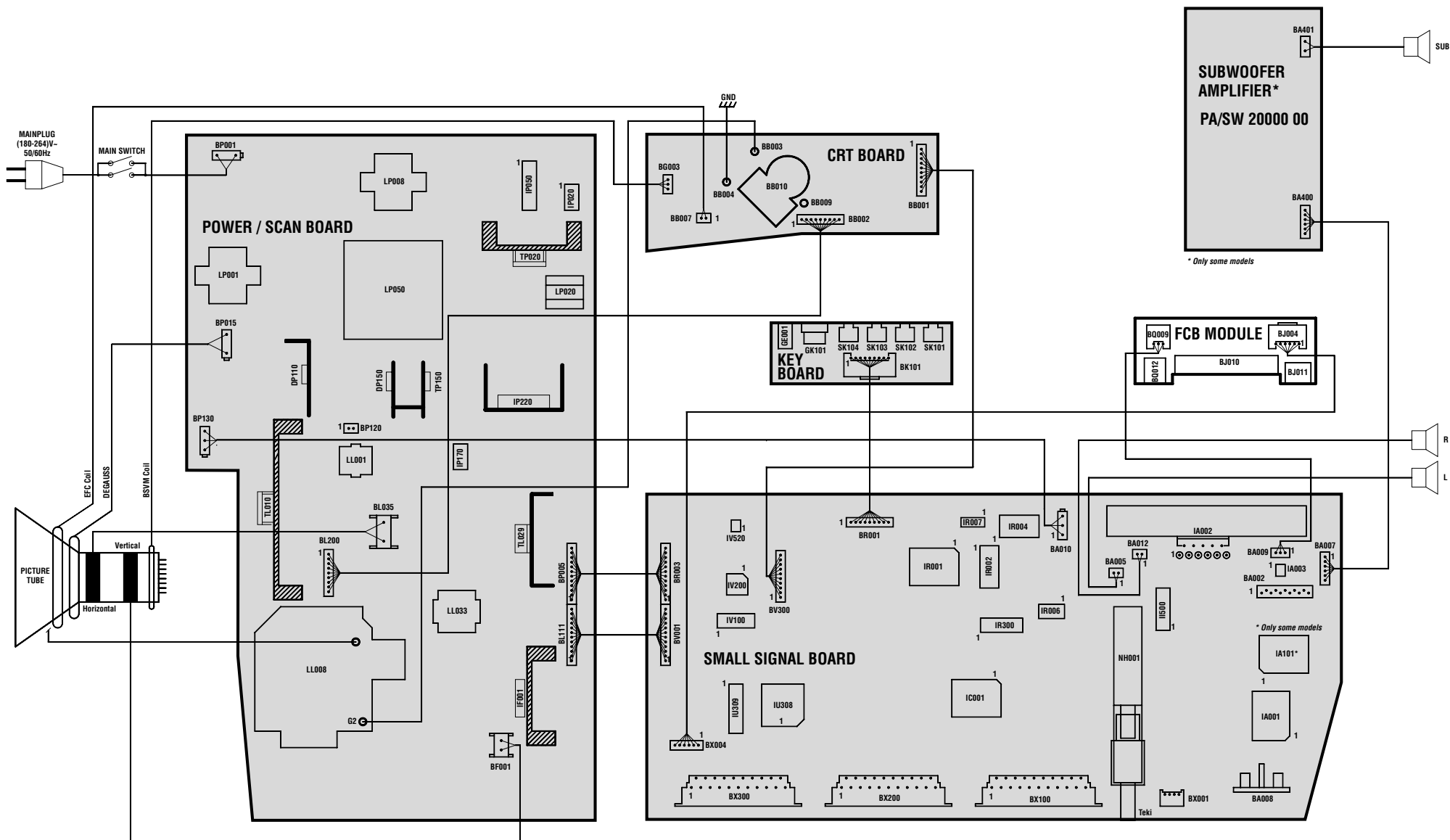
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE -  
LATO COMPONENTI - LADO COMPONENTES



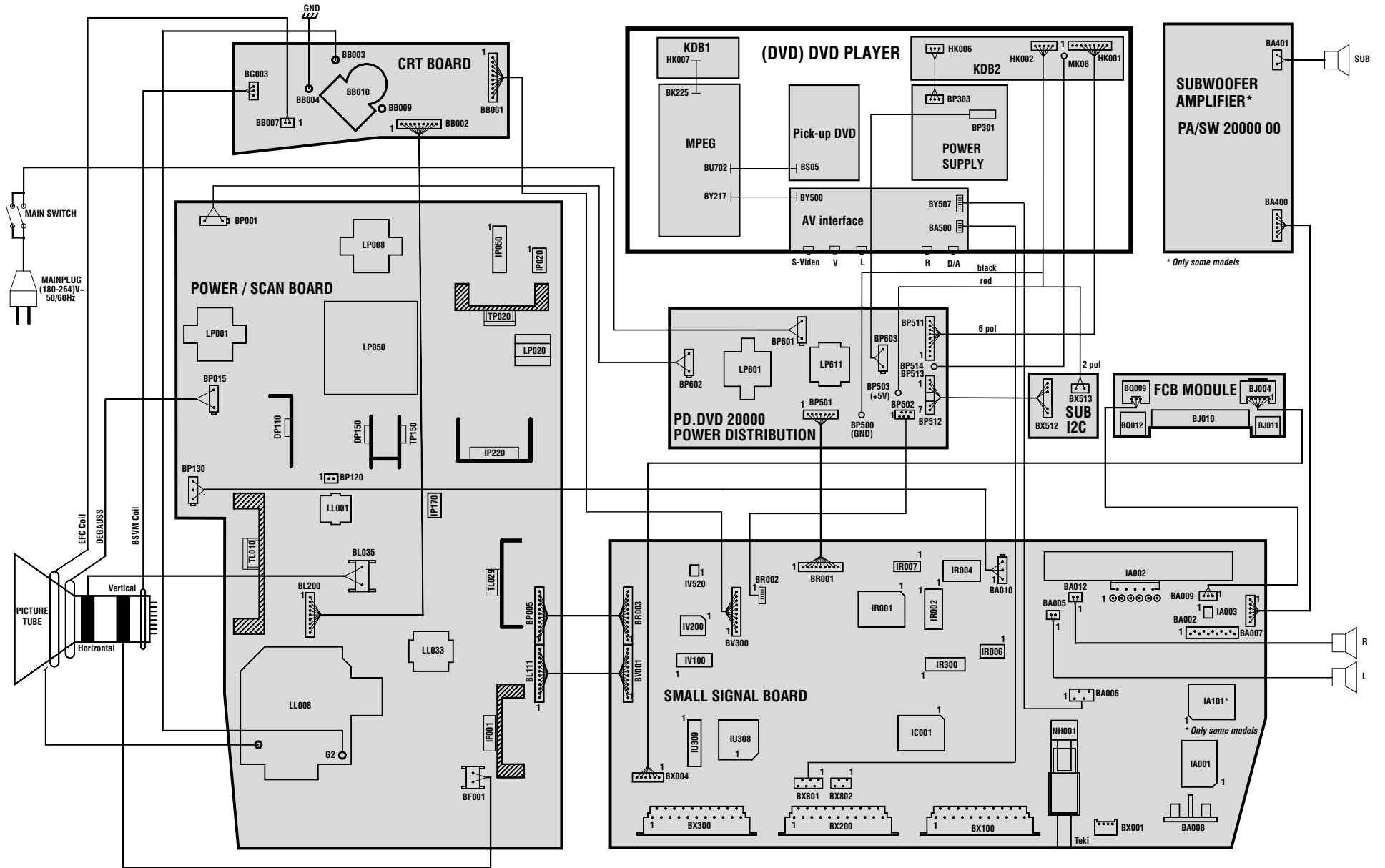
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



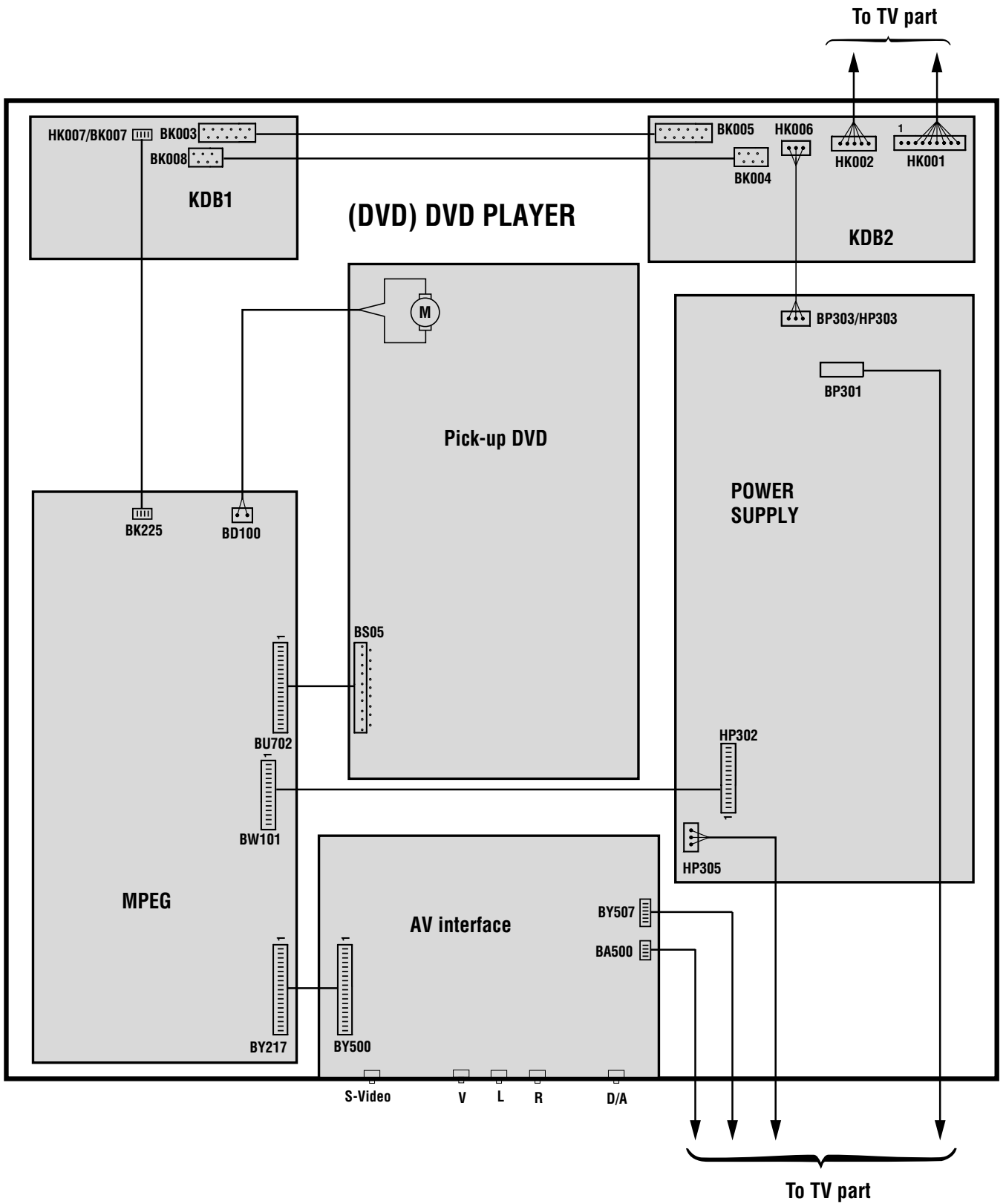
WIRING DIAGRAM - SCHEMA D'INTERCONNESSIONS - VERDRÄHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES



WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRÄHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES



**WIRING DIAGRAM - SCHÉMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN -  
 DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES**





POWER SUPPLY SCHEMATIC DIAGRAM SCHEMA DES CIRCUITS D'ALIMENTATIONS - SCHALTBILD NETZTEIL - SCHEMA DEI CIRCUITI DI ALIMENTAZIONE - ESQUEMA DE LOS CIRCUITOS DE ALIMENTACIÓN

POWE



Use isolating mains transformer.  
Utiliser un transformateur isolateur du secteur.  
Einen Trenntrafo verwenden.  
Utiliser un transformador aislador de red.  
Utilizzare un trasformatore per isolarsi dalla rete.

Note :  
During measurements in the power supply unit  
- Use the primary power unit ground (PGND).  
Attention :  
Mesure dans la partie primaire de l'alimentation  
- Utiliser la masse du bloc alimentation (PGND).  
Achtung :  
Bei Messungen im Primärnetzteil  
- Primärnetzteilmasse verwenden (PGND).  
Attenzione :  
misura nell'alimentatore primario  
- usare massa alimentazione primario (PGND).  
Cuidado :  
Medida en el bloque de alimentación  
- Utilizar la masa del bloque de alimentación (PGND).

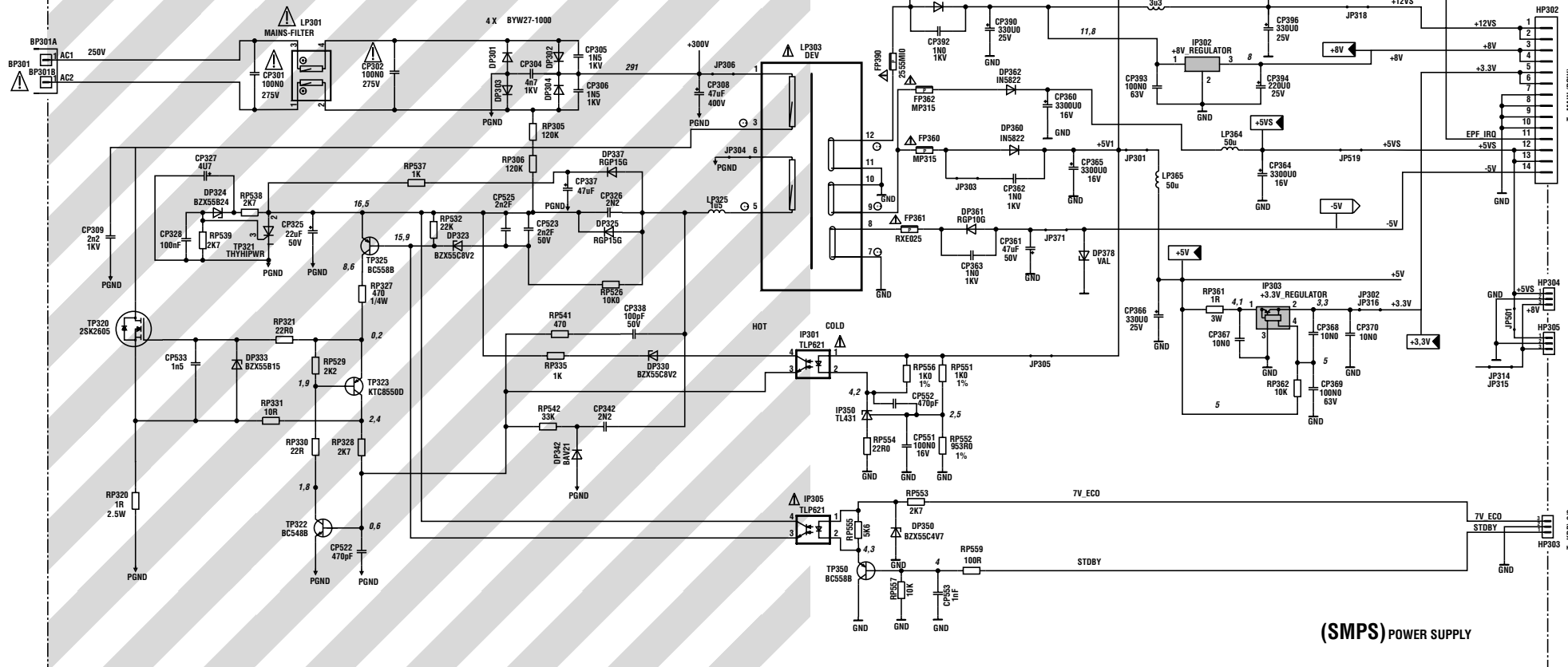


Safety Part  
When repairing, use original part only  
Pièce de sécurité  
N'utilisez que les pièces d'origine

Sicherheitsbauteil  
Bei Ersatz nur Originalteile verwenden  
Componenti di sicurezza  
Per la riparazione utilizzare solo componenti originali

Utilice solo piezas originales  
Pieza de seguridad

Part of board connected to mains supply.  
Partie du châssis reliée au secteur.  
Primärseite des Netzteils.  
Parte dello chassis collegata alla rete.  
Parte del chassis conectar a la red.



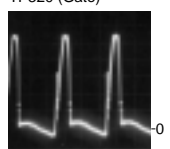
(SMPS) POWER SUPPLY

TP320 (Drain)



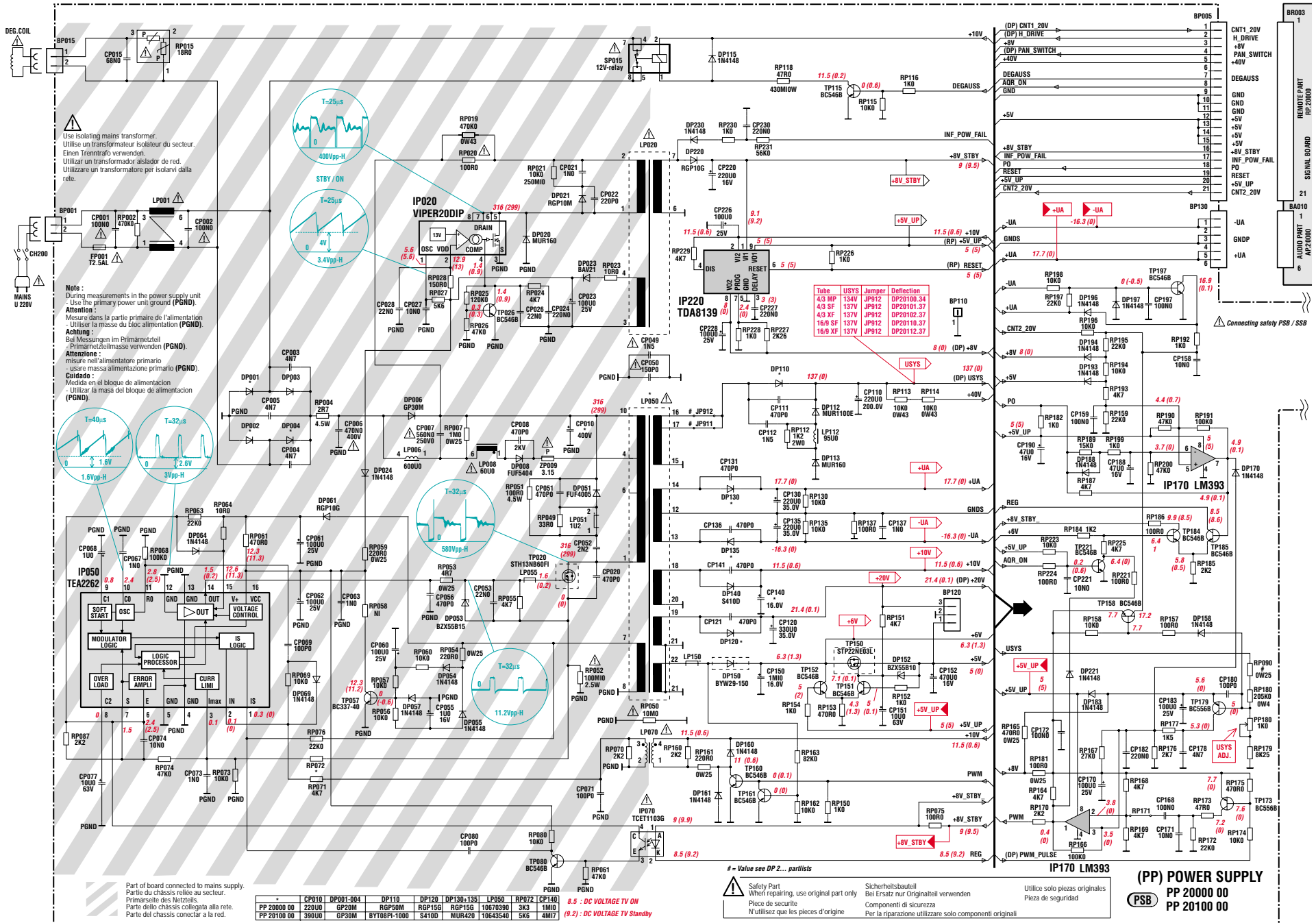
T=15µs 680Vpp

TP320 (Gate)



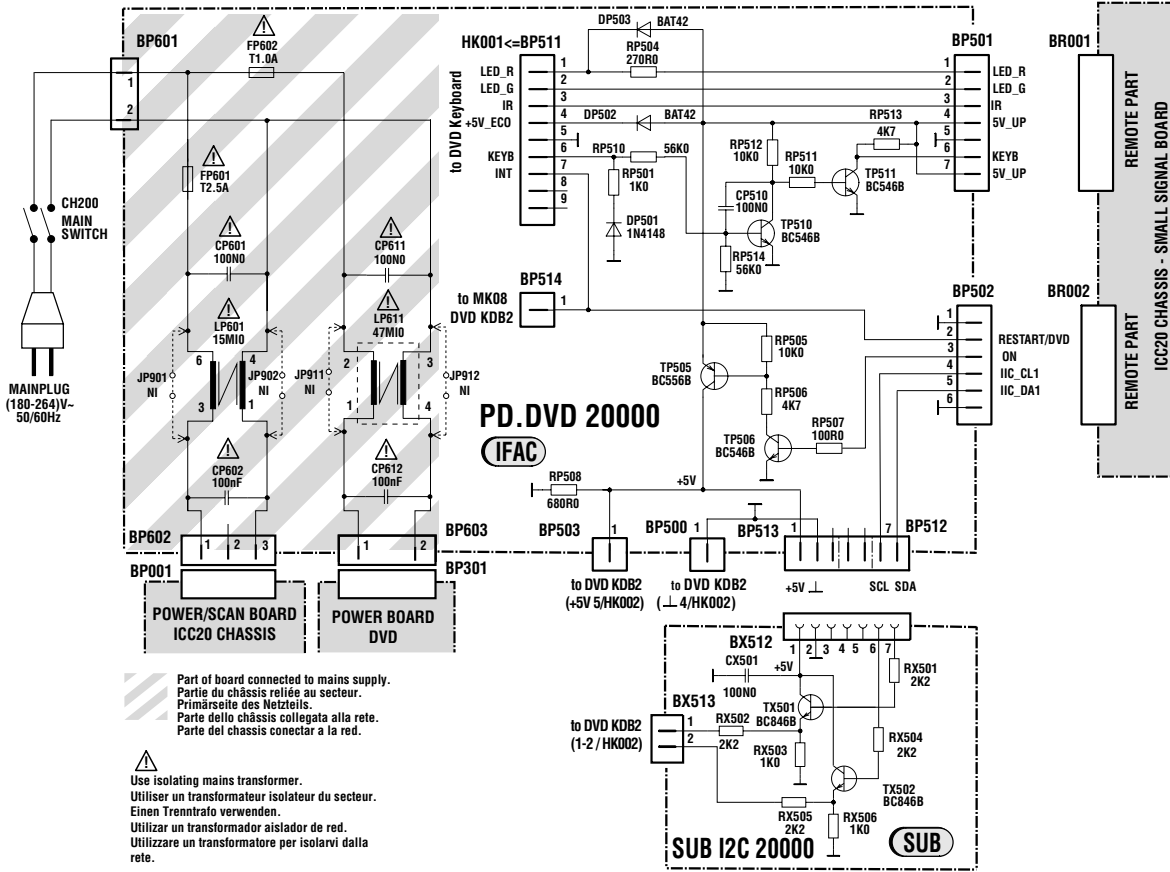
T=15µs 12Vpp

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS  
 POWER SUPPLY PART - PARTIE ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN

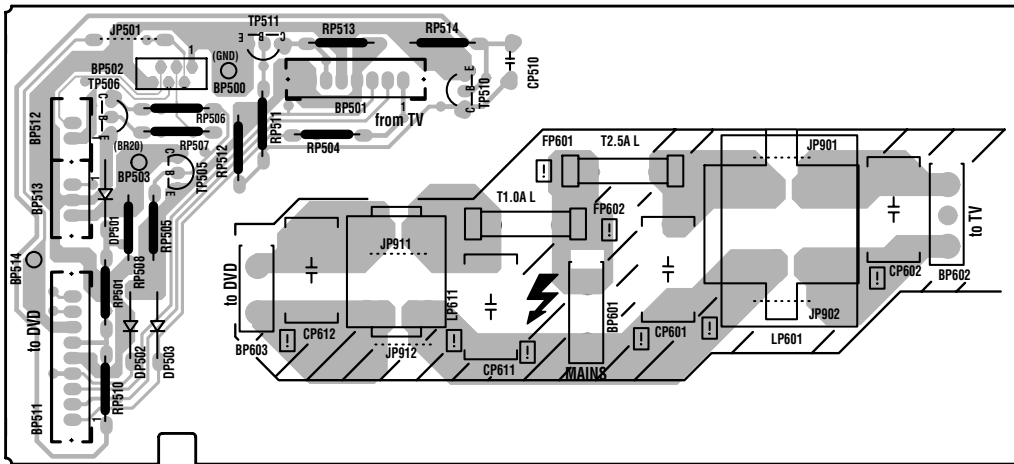




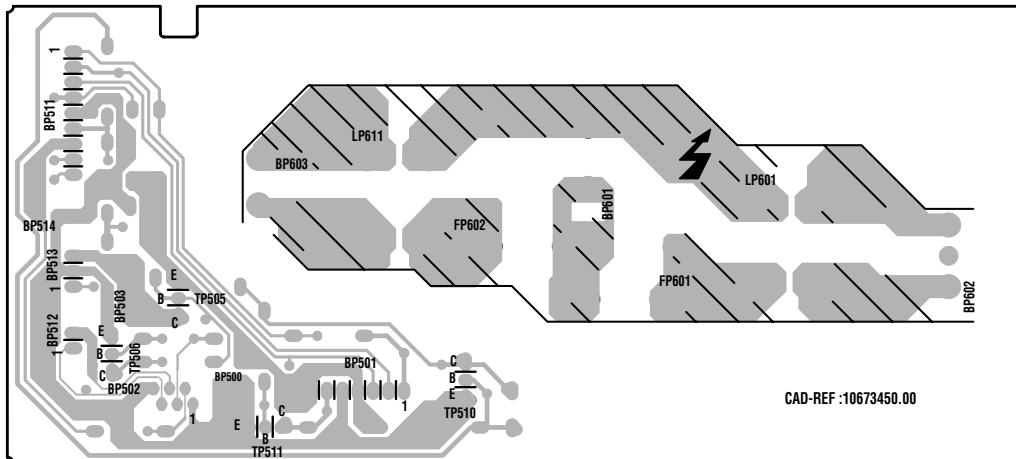
# POWER DISTRIBUTION BOARD - INTERFACE SECTEUR - LEITERPLATTE SPANNUNGSVERTEILUNG PIASTRA DISTRIBUZIONE ALIMENTAZIONI - PLACA DE DISTRIBUCION DE LA ALIMENTACION



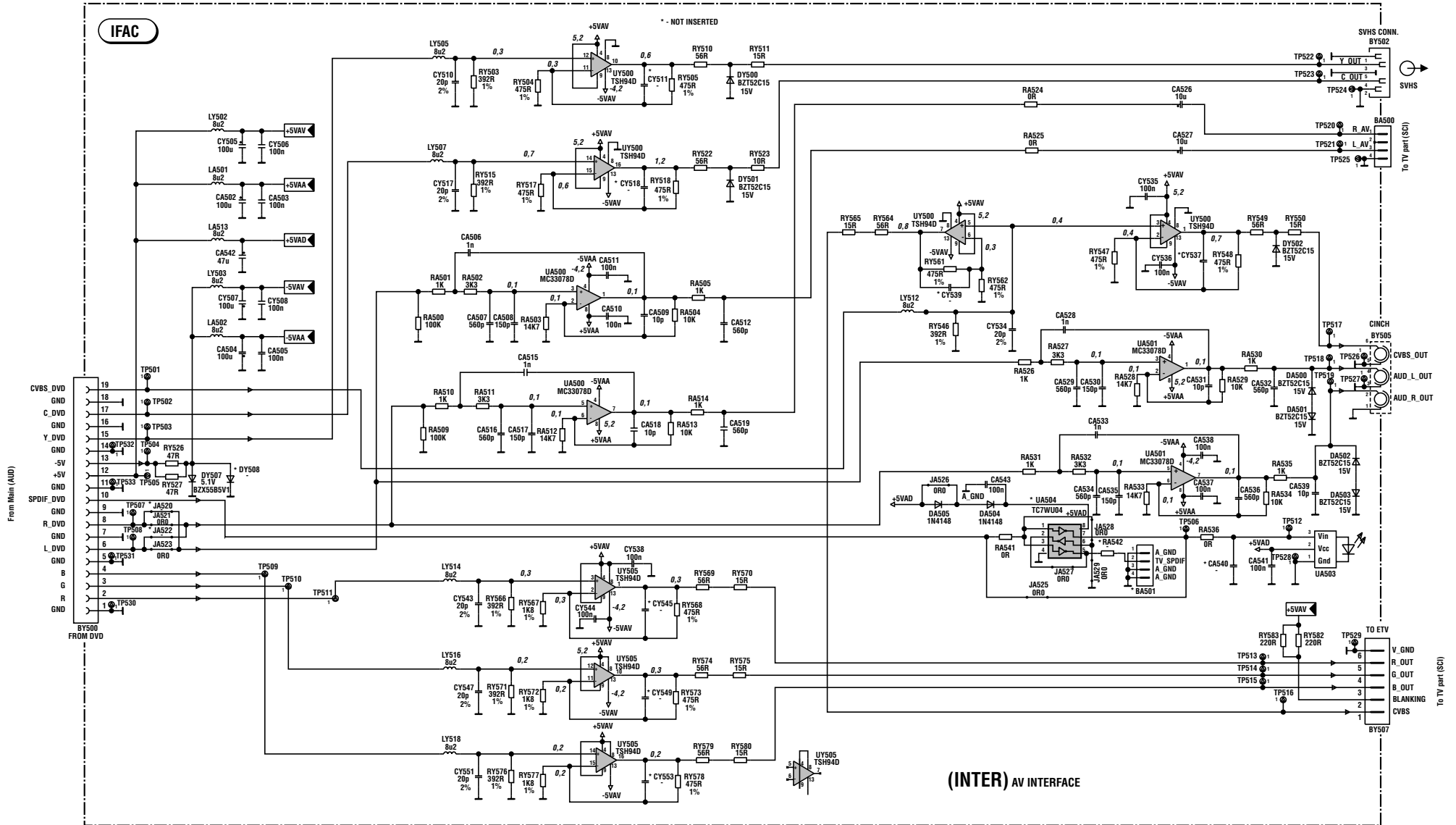
## COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



## SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

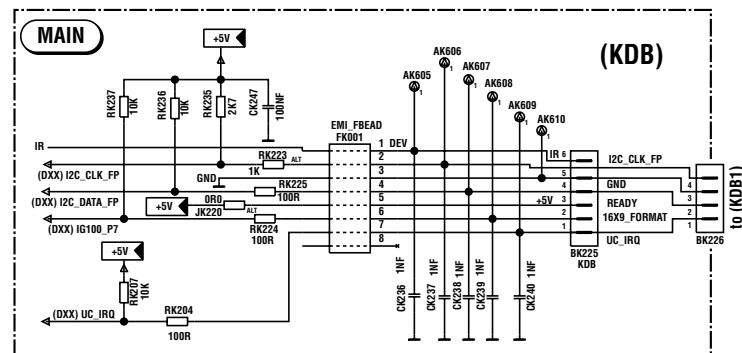
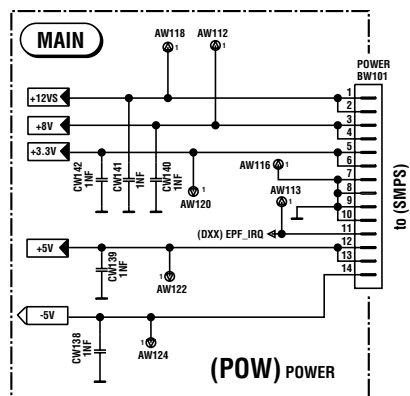
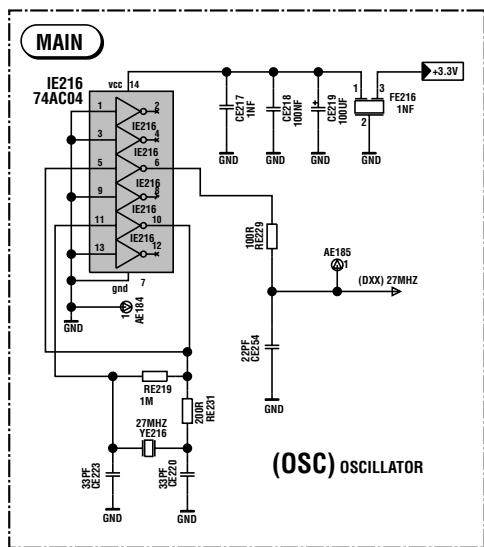
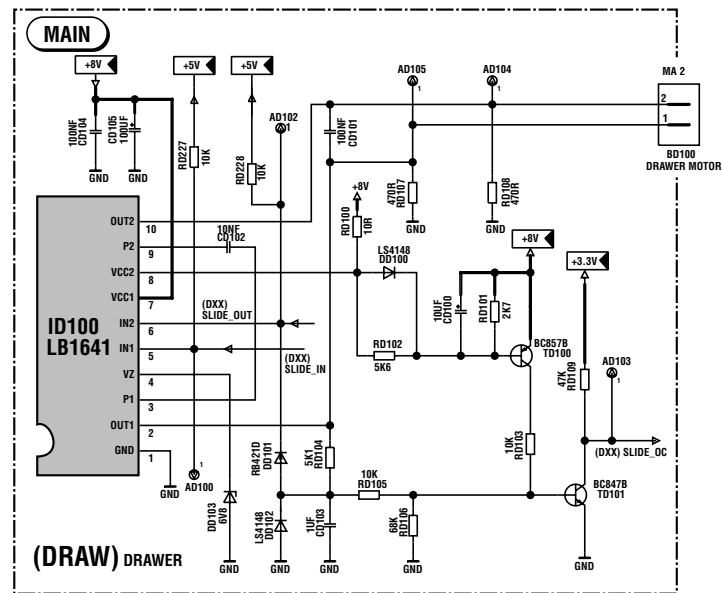
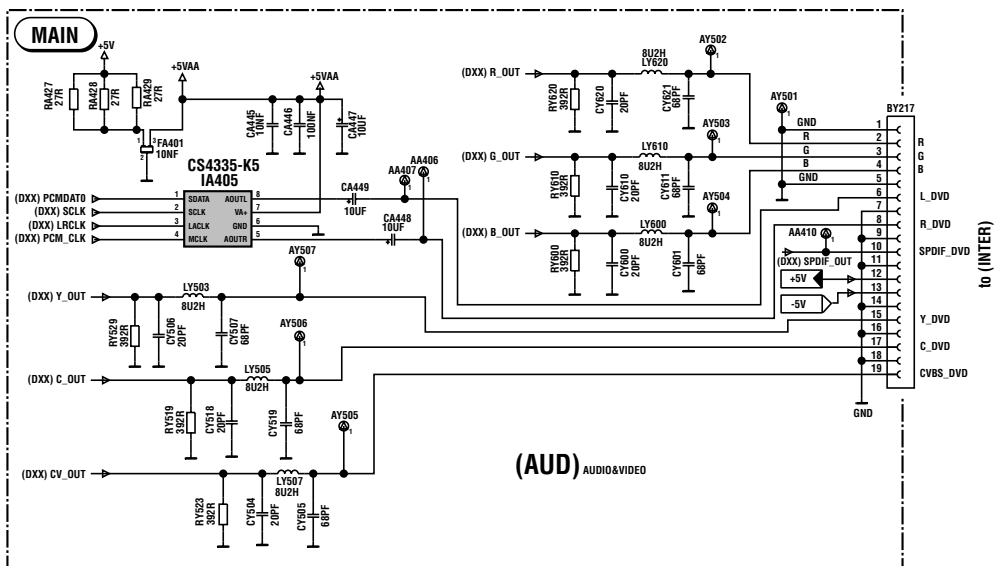


AV INTERFACE SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE INTERFACE AV - SCHALTBILD INTERFACE AV - SCHEMA DEI CIRCUITI INTERFACE AV - ESQUEMA DE LOS CIRCUITOS INTERFACE AV

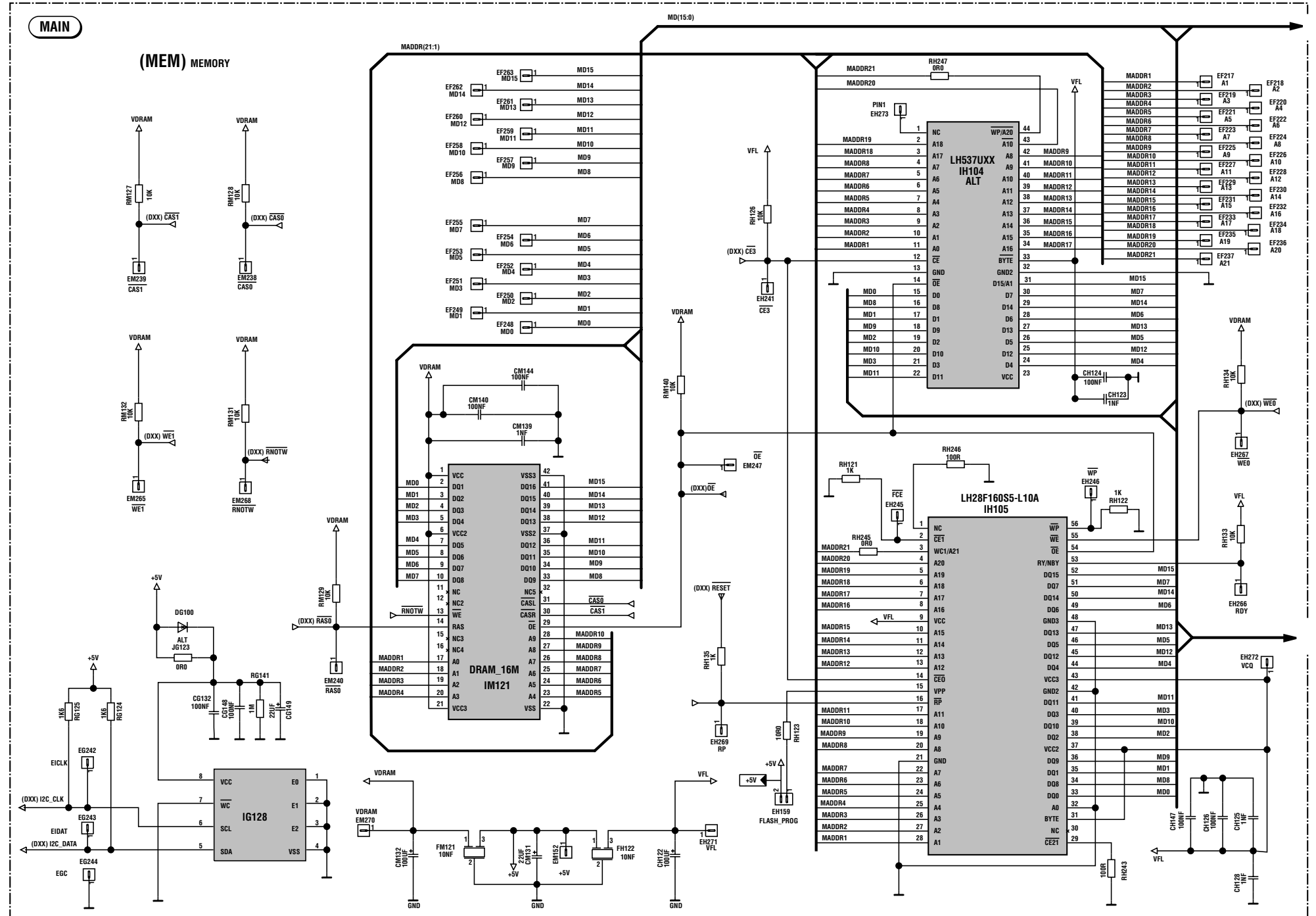




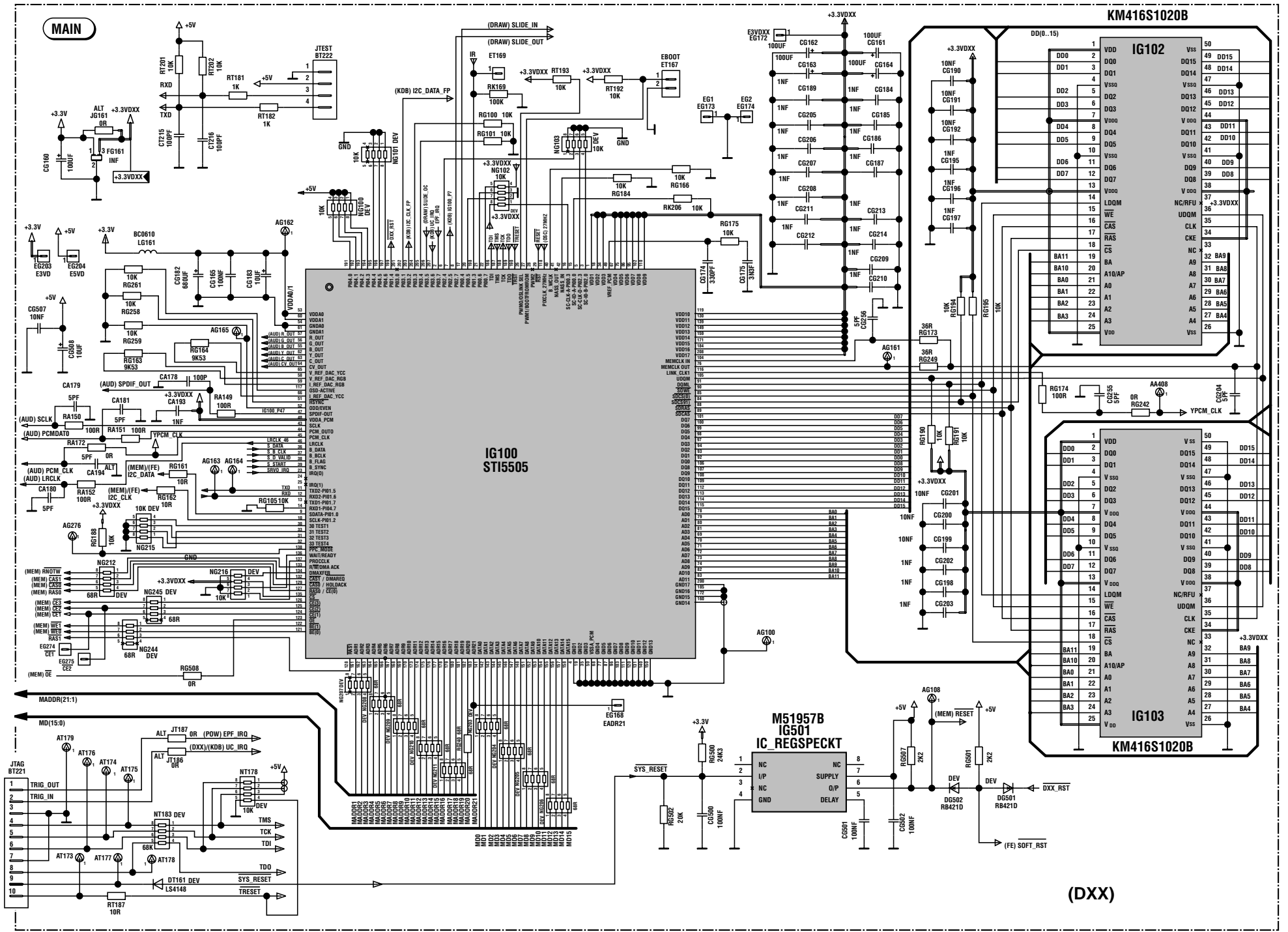
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL



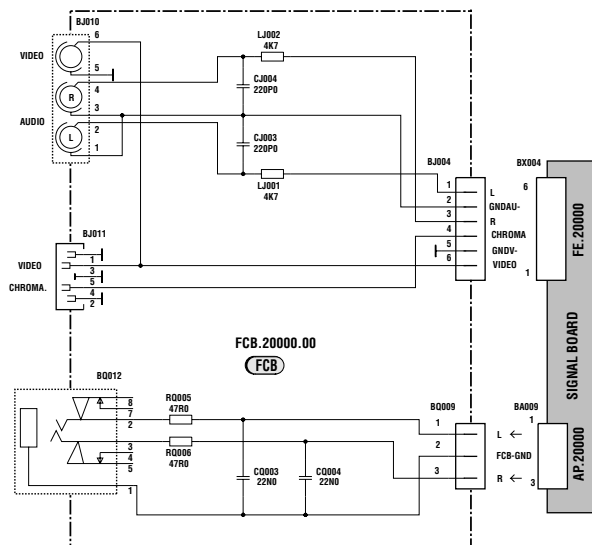
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL



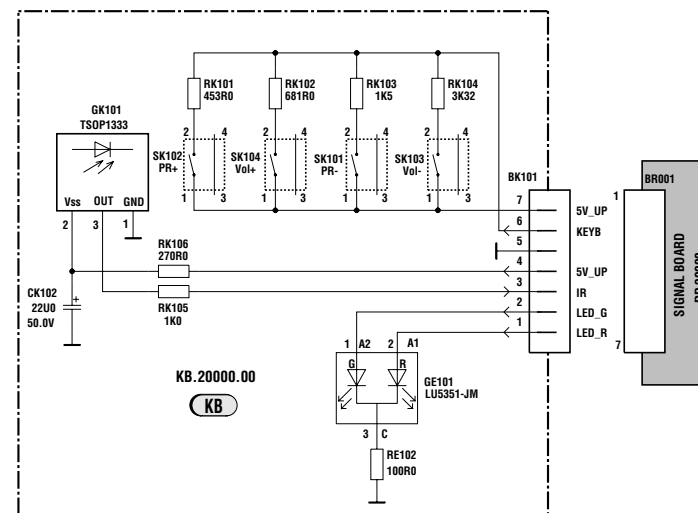
(DXX)

**FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE -  
PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL**

**FCB.20000.00**

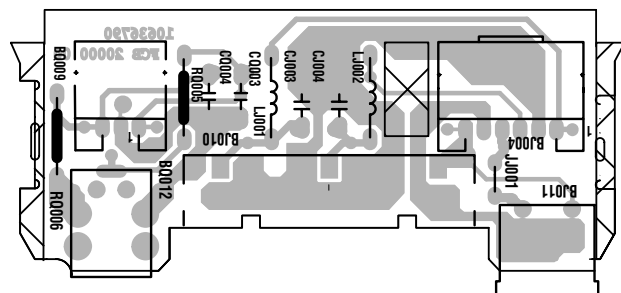


**KB.20000.00**

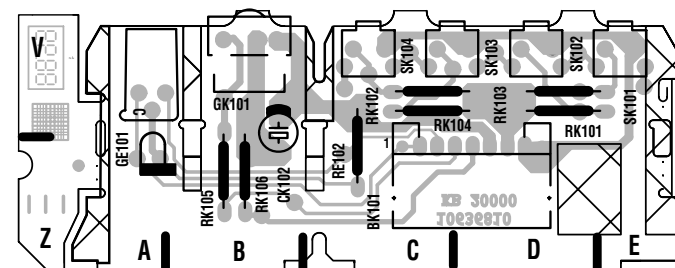


COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES

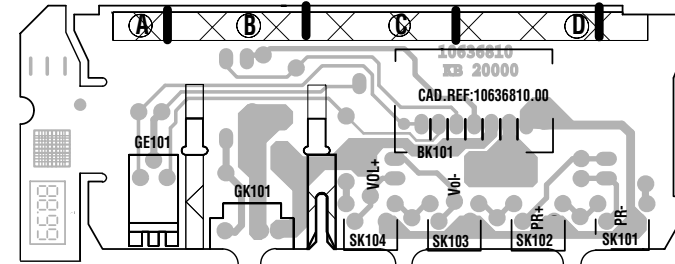
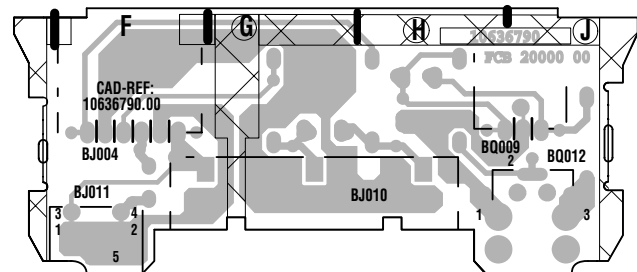
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

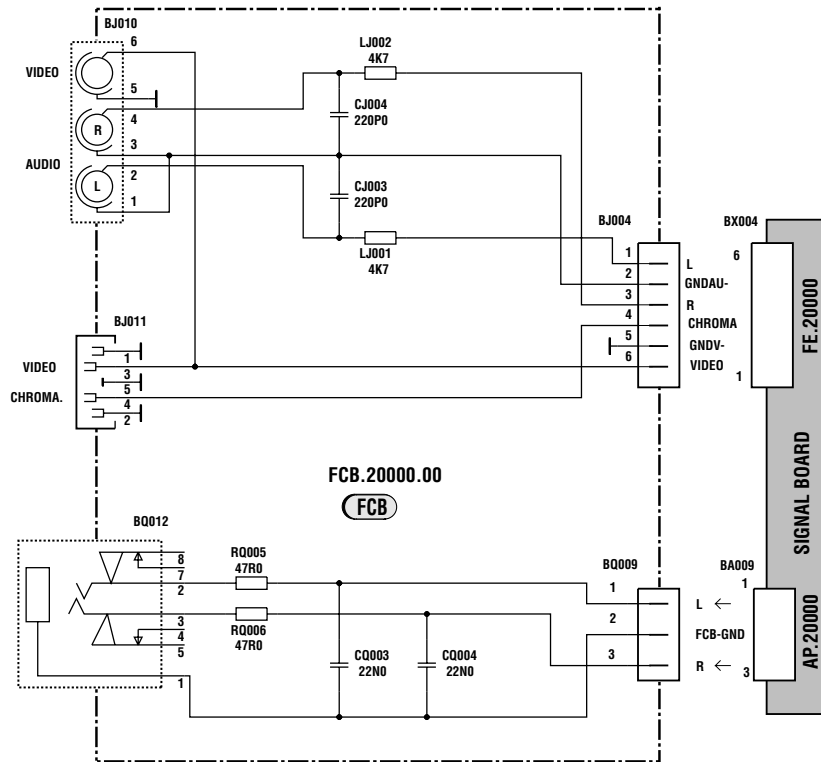


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

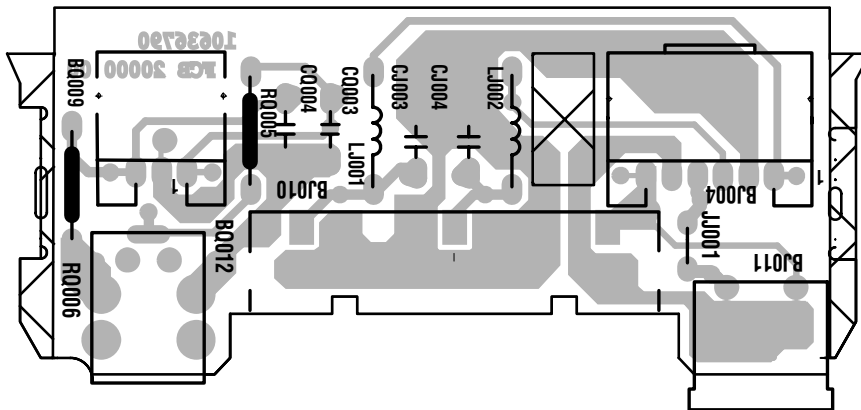


**FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU  
CLAVIER -FRONT ANSCHLUSSPLATTE -  
PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL**

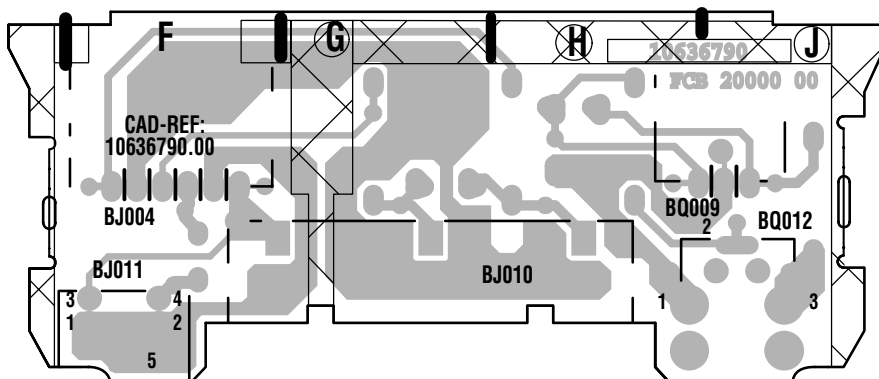
**FCB.20000.00**



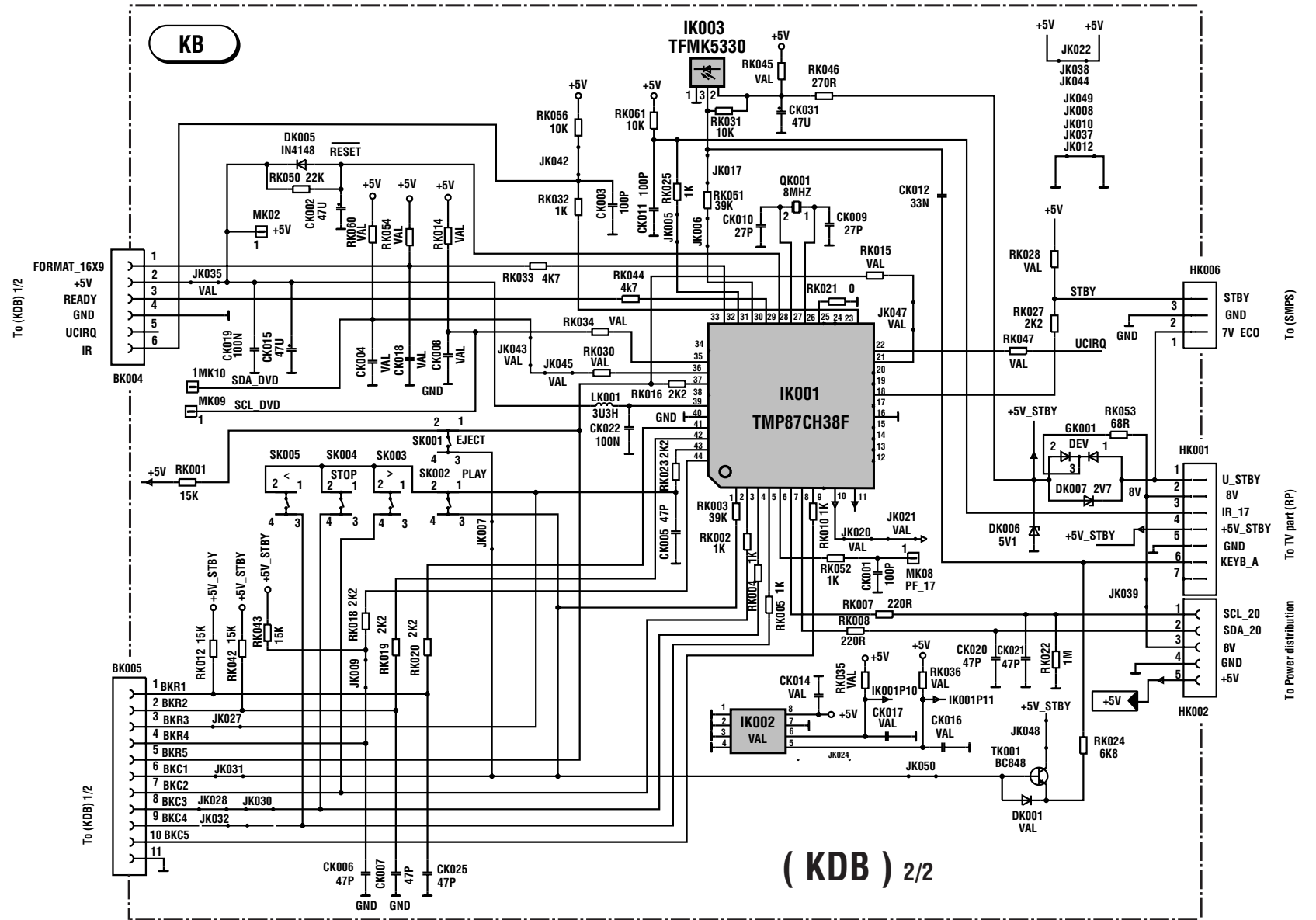
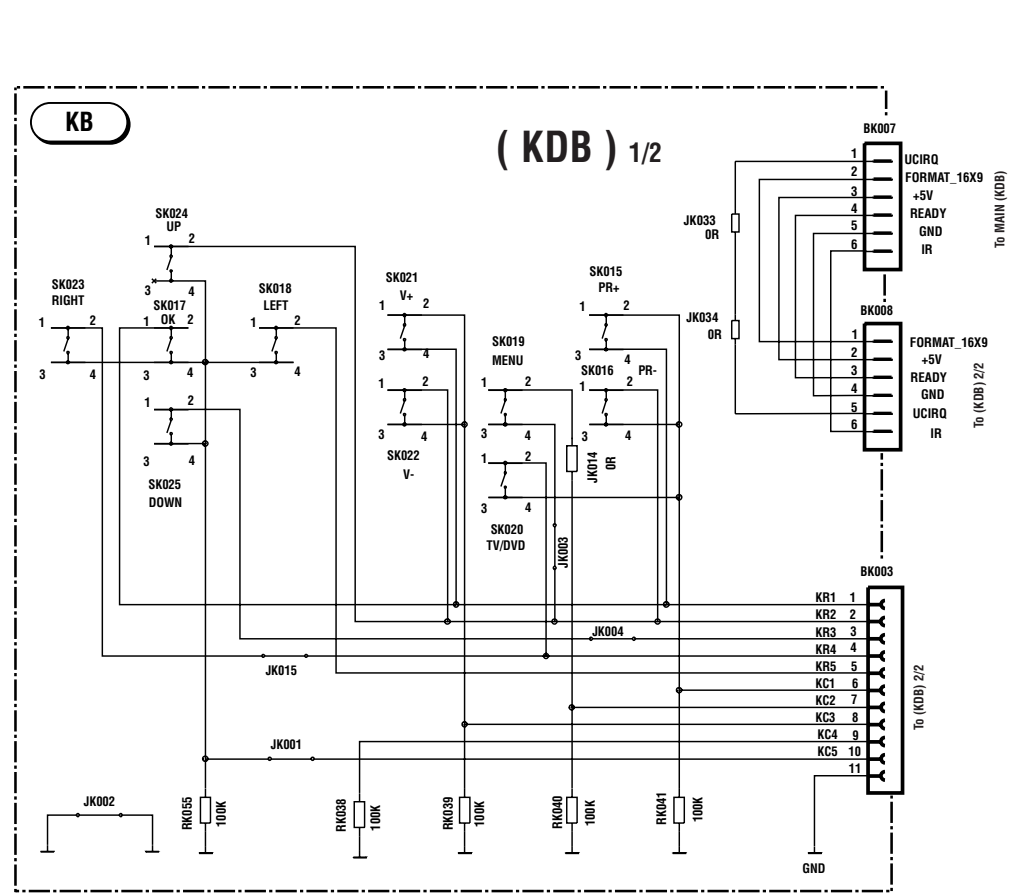
**COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI -  
LADO COMPONENTES**



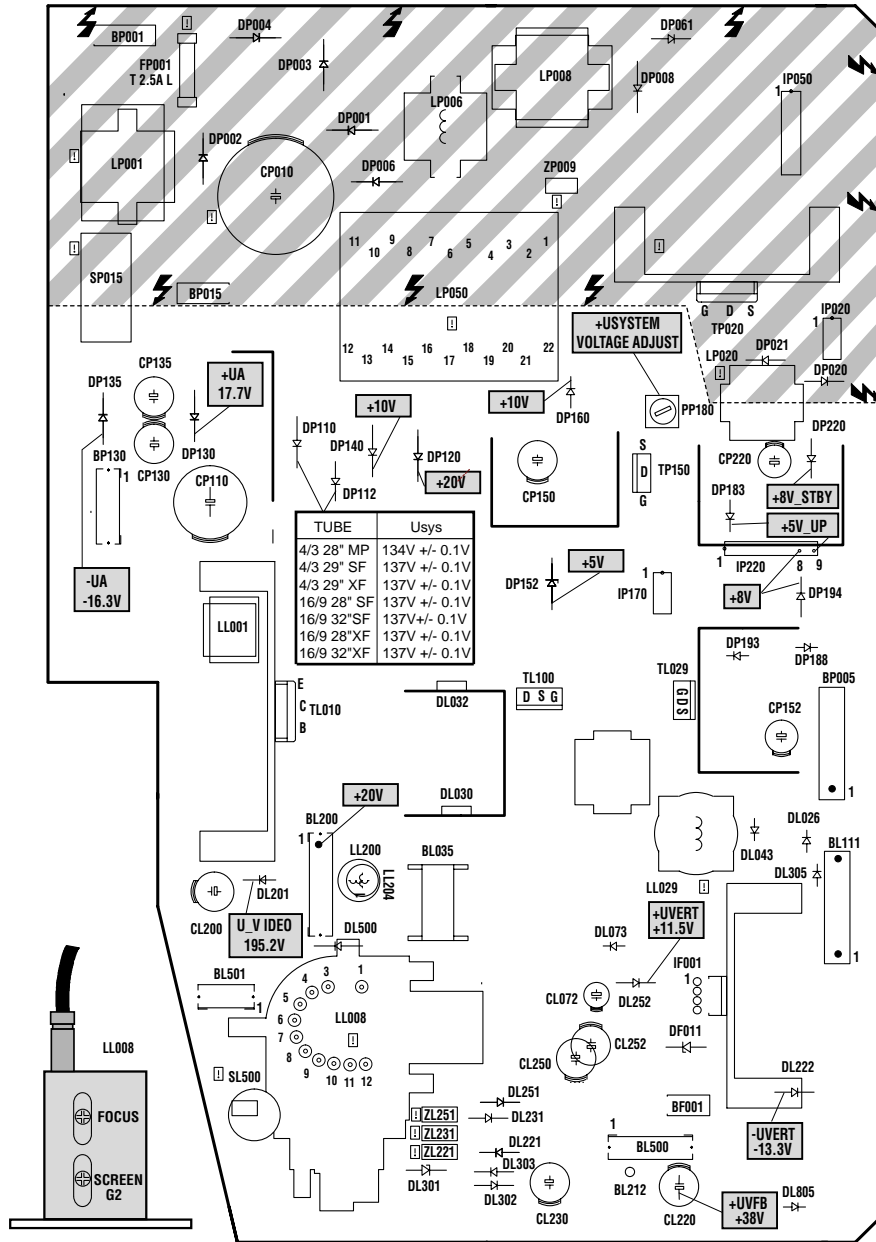
**SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS**



KEYBOARD SCHEMATIC DIAGRAM - SCHEMA DES CIRCUITS COMMANDES - SCHALTBILD BEDIENTEIL - SCHEMA DEI CIRCUITI TASTIERA - ESQUEMA DE LOS CIRCUITOS MANDOS



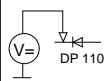


LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



Part of board connected to mains supply.  
Partie du châssis reliée au secteur.  
Primärseite des Netzteils.  
Parte dello chassis collegata alla rete.  
Parte dello chassis conectada a la red

Use isolating mains transformer -  
Utiliser un transformateur isolateur du secteur -  
Trenntraf verwenden -  
Utilizar un transformador aislador de red -  
Utilizzare un trasformatore per isolarvi dalla rete

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

U Sys	PP180	Standard TV - Settings : ☀️ + 🎛️ + 🌑 =50% TV to AV1 : Black test pattern		<table border="1"> <thead> <tr> <th>TUBE NAME</th> <th>DESCRIPTION</th> <th>Usys jumper</th> <th>Usys</th> </tr> </thead> <tbody> <tr> <td>A66EHJ 43X12</td> <td>4/3 28" MP</td> <td>JP912</td> <td>134V +/- 0.1V</td> </tr> <tr> <td>A66EGD038X322</td> <td>4/3 29" SF</td> <td>JP912</td> <td>137V +/- 0.1V</td> </tr> <tr> <td>A68EJZ011X121</td> <td>4/3 29" XF</td> <td>JP912</td> <td>137V +/- 0.1V</td> </tr> <tr> <td>W66EGV023X522</td> <td>16/9 28" SF</td> <td>JP912</td> <td>137V +/- 0.1V</td> </tr> <tr> <td>W76EGV023X522</td> <td>16/9 32" SF</td> <td>JP912</td> <td>137V +/- 0.1V</td> </tr> <tr> <td>W66EJV011X121</td> <td>16/9 28" XF</td> <td>JP912</td> <td>137V +/- 0.1V</td> </tr> <tr> <td>W76EJV011X121</td> <td>16/9 32" XF</td> <td>JP912</td> <td>137V +/- 0.1V</td> </tr> </tbody> </table>	TUBE NAME	DESCRIPTION	Usys jumper	Usys	A66EHJ 43X12	4/3 28" MP	JP912	134V +/- 0.1V	A66EGD038X322	4/3 29" SF	JP912	137V +/- 0.1V	A68EJZ011X121	4/3 29" XF	JP912	137V +/- 0.1V	W66EGV023X522	16/9 28" SF	JP912	137V +/- 0.1V	W76EGV023X522	16/9 32" SF	JP912	137V +/- 0.1V	W66EJV011X121	16/9 28" XF	JP912	137V +/- 0.1V	W76EJV011X121	16/9 32" XF	JP912	137V +/- 0.1V
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U G2 SERVICE MODE	SERVICE MODE G2 potentiometer : SCREEN	<p>-Select and enable the "G2 Alignment" item in VIDEO menu of the Service Mode : the displayed will change to a full black OSD screen. The following adjustment is best carried in semi-darkness: - Adjust the <b>SCREEN</b> potentiometer (LL008) so that the retrace lines are just visible. - Now carefully adjust the <b>SCREEN</b> potentiometer until the retrace lines just become invisible. - Press any RCU key to leave the G2 alignment. Note: If the G2 value is set too low, the chassis will display error code 26 (tube does not get warm in time).</p> <p>- Sélectionner et valider le réglage "G2 Alignment" dans le menu Vidéo de Service Mode: l'écran devient totalement noir. En obscurité: - Régler le potentiomètre <b>"SCREEN"</b> (LL008) pour apercevoir le retour des lignes. - Régler ensuite le potentiomètre <b>"SCREEN"</b> pour rendre juste invisibles les lignes de retour. - Appuyer sur une des touches de la télécommande utilisateur pour sortir du mode G2 Alignment. Note : En cas de réglage G2 trop faible le chassis passe en code panne 26 ( absence de l'information tube chaud.</p> <p>- Wählen Sie im Service-Mode im Menü VIDEO die Funktion "G2 Alignment" an: der Bildschirm wird schwarz. Die folgenden Einstellungen sollten in einem abgedunkelten Raum vorgenommen werden. - Stellen Sie den Einsteller <b>SCREEN</b> (am DST LL008) so ein, dass Rücklaufstreifen sichtbar werden. - Stellen Sie den Einsteller SCREEN so ein, dass die Rücklaufstreifen gerade unsichtbar werden. - Drücken Sie irgendeine Taste auf der Fernbedienung um den G2-Abgleich zu verlassen. Achtung: Wenn die Schirmgitter- (G2-) Einstellung zu niedrig ist, kann der Fehlercode 26 (Bildrohr nicht rechtzeitig aufheizt) angezeigt werden.</p> <p>Selezionare e abilitare "G2 Alignment" interno al menu VIDEO del Service Mode: Verrà visualizzato uno schermo nero. In condizione con ambiente scuro. Regolare il potenziometro <b>SCREEN</b> (LL008) per rendere visibili le ritraccie sullo schermo Regolare il potenziometro <b>SCREEN</b> per eliminare le ritraccie sullo schermo Premere un tasto del telecomando per abbandonare G2 alignment. NOTA: se la regolazione della tensione G2 è troppo bassa il telaio visualizzerà il codice 26( il tubo non raggiunge la temperatura nel tempo richiesto)</p> <p>- Seleccionar y validar la línea del "ajuste G2" en el menú VIDEO del Modo Servicio : La pantalla se pondrá oscura y el OSD pasará a color negro. Cuando esté oscura: - Ajustar el potenciómetro <b>SCREEN</b> (LL008) hasta hacer visibles las líneas de retrazado. - Ajustar el potenciómetro <b>SCREEN</b> justo, hasta hacer invisibles las líneas de retrazado. - Pulsar cualquier tecla del telemando para salir del ajuste de G2. Nota: Si el valor del ajuste de G2 es muy bajo, el chasis puede indicar el código de error 26 (TRC no se calienta en el tiempo establecido)</p>																																		
FOCUS	FOCUS			Test pattern (standard values) Sharp picture																																

**SERVICE MODE (GB)**      **MODE SERVICE (F)**      **SERVICE-MODE (D)**      **SERVICE - MODE (I)**      **MODULO SERVIZIO (E)**

I - ENTER/EXIT SERVICE MODE - ENTREES/SORTIE DU MODE SERVICE - EIN-AUSTIEG SERVICE MODE - ACCESSO/USCITA ALLA/DALLA FUNZIONE - ENTRADA/SALIDA MODO SERVICIO

**1 ACCESSING SERVICE MODE**

**TV Control Panel Access**

Switch the TV into "Standby" mode by pressing the Standby button on the RCU. Wait till the TV goes into the standby.

Press the VOL- button and then the PR- button on the TV keyboard. Hold them down for more than 8 seconds.

After the normal switch on time, when the 8 seconds have elapsed, the main service menu appears on the screen.

**1 ACCES AU MODE SERVICE**

Mettez le téléviseur en position "veille" avec la télécommande utilisateur.

Appuyez sur la touche VOL- puis sur la touche PR- du clavier du téléviseur.

Maintenez enfoncées ces touches ensemble plus de 8 secondes.

Après le temps normal de mise en fonctionnement et lorsque les 8 secondes sont écoulées, le menu principal du Mode Service apparaît.

**1 EINSTIEG IN DEN SERVICE MODE**

Schalten Sie das Gerät mit der Fernbedienung in Standby.

Drücken Sie die VOL- Taste und dann die PR-Taste am Tastaturlinial des Gerätes. Halten Sie beide Tasten für länger als 8 Sekunden gedrückt.

Nach der normalen Einschaltzeit erscheint auf dem Bildschirm das Menü des Service-Modes.

**1 ACCESSO AL SERVICE MODE**

tramite i comandi del televisore

Posizionare il TV nel modo "Standby" usando il tasto standby del telecomando. Attendere che il TV si posizioni in standby.

Premere prima il tasto VOL- e poi il tasto PR- sulla tastiera del TV. Mantenere premuto due tasti per più di 8 secondi.

Dopo circa 8 secondi il TV si accenderà mostrando sullo schermo il menu service.

**1 ACCESO AL MODO SERVICIO**

Acceso panel control TV

Con el TV encendido, apagarlo con la tecla "Standby" del telemando. Asegúrese de que el aparato ha pasado a "Standby".

Pulsar primero, la tecla VOL- y después PR- del teclado del TV. Mantenerlos pulsados al mismo tiempo durante unos 8 segundos.

Después del arranque normal, cuando hayan pasado los 8 segundos, aparecerá el menú principal del Modo Servicio.

**2 TEMPORARY EXIT FROM SERVICE MODE**

Press Exit on the Remote control.

Everyday use menu can be accessed via Menu button. (Test and EPG not available)

Field Service Menu can be re-entered via Blue button.

**2 SORTIE TEMPORAIRE DU MODE SERVICE**

Utiliser la touche Exit de la télécommande.

Le menu utilisateur peut être accessible via la touche "Menu". (Télétexte et EPG non valables)

Pour entrer à nouveau dans le mode service utiliser la touche blue.

**2 VORÜBERGEHENDS VERLASSEN DES SERVICE MODE**

Auf der Fernbedienung EXIT drücken.

Mit der Taste Menu gelangen Sie zum Menü "Überstart". (Télétext und EPG sind nicht verfügbar)

Mit der blauen Taste gelangen sie zurück in den Service-Mode.

**2 USCITA TEMPORANEA DAL SERVICE MODE**

Premere Exit sul telecomando.

Al menu di uso quotidiano si accede attraverso il pulsante Menu. (Test and EPG disponibili)

È possibile rientrare nel Menu Service tramite il pulsante Blue.

**2 SALIDA TEMPORAL DEL MODO SERVICIO**

Pulse Exit en el mando a distancia.

Con el botón Menu puede acceder al menú de uso cotidiano. (Télétext y EPG no disponibles)

Puede entrar al Menu Servicio con el botón azul.

**3 EXITING FROM SERVICE MODE**

Remote Control    TV control panel    on/off key or Standby

Go to the point QUIT in the Field service Mode main menu.

Standby function or off with on/off key.

Press "-" button    Press "VOL-" button

TV mode

Values or adjustments are not stored before exiting from service mode will not be written into the NVM.

**3 SORTIE DEFINITIVE DU MODE SERVICE**

télécommande    clavier du téléviseur    Inter MIA ou Standby

Aller au point "QUIT" dans le menu principal du mode service.

Fonction Standby ou off par MIA.

Appuyer sur "-"    Appuyer sur "VOL-"

Mode TV

Les valeurs ou réglages non mémorisés avant la sortie du service pas écrits en NVM.

**3 ENDLÜTIGES VERLASSEN DES SERVICE MODES**

Fernbedienung    TV Bedientfeld    Netzschalter

Wenn der Cursor im Hauptmenü des Service-Modes auf "QUIT" steht.

Mit Standby-Funktion oder Netzschalter ausschalten.

Taste "-" drücken    Taste "VOL-" drücken

TV-Modus

Werte und Einstellungen, die nicht vor dem Verlassen des Service-Modes gespeichert wurden, werden nicht in den Permanentspeicher (EEPROM) übernommen

**3 USCIRE DAL SERVICE MODE**

telecomando    Panello control TV    Tasto on/off

Andare al punto QUIT nel Menu service del Menu principale.

Funzione Standby o off con il tasto on/off

Premere "-"    Premere "VOL-"

Modo TV

Valori e regolazioni non memorizzati prima di uscire dal Modo service e non vengono scritti nell'NVM

**3 SALIDA DEL MODO SERVICIO**

telecomando    Panel de control TV    Tecla on/off de

Vaya al punto QUIT del menú principal del modo Servicio.

Función Standby o desconexión (off) con tecla on/off

Pulse el botón "-"    Pulse el botón "VOL-"

Modo TV

Los valores o ajustes no se guardan antes de salir del modo servicio y no se escribirán en el NVM

**II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE - BUSQUA EN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO**

**1 REMOTE CONTROL - TELECOMANDE - FERNBEDIENUNG TELECOMANDO - MANDO A DISTANCIA**

To enable a function check (tick)  the box.

Pour valider une fonction cocher  la case correspondante.

Zum Implementieren einer Funktion das Kontrollkästchen  aktivieren (grün).

Per implementare una funzione di verifica, (visuale)  la casella.

Para poner en funcionamiento una función verifique (señale)  la casilla.

Implemented function     Not implemented function

**2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES FERNSEHGERÄTS - COMANDI DEL TELEVISORE -**

Select option  
Option auswählen  
Seleccionar opción  
Selezionare opzione

"Change" value  
"Wert ändern"  
"Cambiar" valor  
"Cambiar" valor

**3 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES VALEURS - ANZEIGE DES EINSTELLUNGSWERTE VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - VISUALIZACION DEL VALOR DE AJUSTE**

V- Position <|> "C" >

00 to FF

Hexadecimal value  
Valeur hexadécimale  
Sechszehnerwert  
Valore esadecimale  
Valor hexadecimal

Set value  
NVM value

Display >+ > NVM value    Display <= < NVM value

**4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS EN-UND AUSSCHALT FUNKTIONEN - FUNZIONI DI COMMUTAZIONE - FUNCIÓN CONMUTACIÓN**

To enable a function check (tick)  the box.

Pour valider une fonction cocher  la case correspondante.

Zum Implementieren einer Funktion das Kontrollkästchen  aktivieren (grün).

Per implementare una funzione di verifica, (visuale)  la casella.

Para poner en funcionamiento una función verifique (señale)  la casilla.

Implemented function     Not implemented function

**5 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHER DER WERTE - MEMORIZZAZE I VALORI - VALORES ALMACENADOS EN LA MEMORIA**

After setting, the values are stored in NVM.

Après réglages les valeurs sont mémorisées en NVM.

Nach dem Einstellen werden die Werte im NVM gespeichert.

Do po regulacije i valori vengono memorizzati in NVM.

Después del ajuste, los valores son almacenados en NVM.

The box  becomes

During alignment, values are temporarily stored in RAM.

Durante l'alignement, les valeurs sont mémorisées temporairement en RAM.

Während des Abgleichs werden die Werte vorübergehend in RAM gespeichert.

Durante l'allineamento i valori vengono memorizzati provvisoriamente sulla RAM.

Durante el alineamiento, los valores son almacenados temporalmente en RAM.

**Store** → Copies RAM values into NVM  
Copie la valeur RAM en NVM  
Kopieren des Wertes von RAM nach NVM  
Copiare i valori RAM in NVM  
Copiar valores RAM en NVM

**Restore** → Copies all values from NVM into RAM  
Copie toutes les valeurs des données NVM en RAM  
Kopiert alle NVM-Datenwerte in das RAM  
Copiare tutti i valori da NVM sulla RAM  
Copiar todos los valores de NVM a RAM

**Default** → All the default values of a page in use are stored in RAM.  
L'ensemble des valeurs par défaut d'une page courante est chargé en RAM.  
Sämtliche Standardwerte der aktuellen Seite werden ins RAM geladen.  
Tutti i valori di default di una pagina in uso vengono memorizzati sulla RAM.  
Todos los valores por defecto de la página en curso están almacenados en RAM.

**III - LITE-MENU FOR FIELD SERVICE MODE - MENUS DU MODE SERVICE**

**1 MAIN MENU - MENU PRINCIPAL**

Recover composition  
Composition de Récepteur  
Aufbau des Empfängers  
Composizione del ricevitore  
Composicion del receptor

Software Version  
Version software  
Software Version  
Version software  
Version software

Counter  
Zähler  
Contador  
Contatore

Serial No.  
N° de série  
Seriennr.  
Numero serie  
N° serie

Serial No.  
N° de série  
Seriennr.  
Numero serie  
N° serie

TV-BE  
LUBE  
SETUP  
GEOMETRY  
VIDEO  
IF  
ERROR

TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION - CONFIGURAZIONE DEL TV - CONFIGURACION TV

Config. WSZ\_V

Character 1: Tube type: "A" = 43, "W" = 169  
Character 2: Teletext external memory detected: "T" = 128 page, "-" = not (only internal memory)  
Character 3: Ambient Sensor: "S" = detected, "-" = not (not ambient sensor on ICC20 step 1)  
Character 4: Chassis variant: "N"=Nicom, "V"=Virtual Dolby, "D"=Dolby prologic  
Character 5: Noise Reduction upconversion memory detected: "N" = detected  
Character 6: "not used" / spare  
Character 7: "not used" / spare

**SERIAL N°:** AT...

Character 1: Factory, A= August, B= Bartron, Z= Zyrardov  
Character 2: Year, P= 1986, A= 1987 etc. (International code UTEC90511)  
Character 3: Month, from 1= January to 9=September, O=October, N=November  
Character 4: Day-December

**TIME COUNTER - COMPTeur DE TEMPS - ZÄHLER - CONTATORE - CONTADOR**

The counter indicates the TV's number of service hours. It counts from 0 to 65535 hours. The display is hexadecimal.

Le compteur de temps indique le nombre d'heures de service du TV. Il compte de 0 à 65535 heures. L'affichage est en hexadecimal.

Der Zähler zeigt an, wieviele Stunden der Fernseher in Betrieb ist. Die Anzeige ist hexadezimal.

Il contatore indica il numero di ore di servizio del TV. Puro contare da 0 a 65535. La visualizzazione è esadecimale.

El contador indica el número de horas de servicio de la TV. Cuenta de 0 a 65535 horas. El visualizador es hexadecimal.

**2 SUBMENU - SOUS-MENU**

IF    SECAM    L

Return    84    94    84

ADC: Take Over    IF    PLL\_VCO

FF: = BT  
Default  
Store  
Restore

Hexadecimal value  
Valeur hexadécimale de réglage  
Hexadecimales Einstellungswerte  
Valore di regolazione esadecimale  
Valor de ajuste en hexadecimal

Enable a function  
Citer de validation - Fonction valide si "cocher"  
Zum Implementieren einer Funktion  
Per inserire la funzione  
Activar una función



ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMENTO DE ALINEACION

TUBE SETUP Return Clear Prog. Std. Sound Preset...

Return Clear Prog. Std. Sound Preset... (continued)

Return Clear Prog. Std. Sound Preset... (continued)

Return Clear Prog. Std. Sound Preset... (continued)

GEOMETRY Return Custom Mode...

GEOMETRY Return Custom Mode... (continued)

GEOMETRY Return Custom Mode... (continued)

GEOMETRY Return Custom Mode... (continued)

VIDEO Return SECAM L...

VIDEO Return SECAM L... (continued)

IF Return SECAM L...

IF Return SECAM L... (continued)

TUBE Return Close the sub-menu...

TUBE Return Close the sub-menu... (continued)

TUBE Return Close the sub-menu... (continued)

TUBE Return Close the sub-menu... (continued)

GEOMETRY Return Close the sub-menu...

GEOMETRY Return Close the sub-menu... (continued)

GEOMETRY Return Close the sub-menu... (continued)

GEOMETRY Return Close the sub-menu... (continued)

VIDEO Return Close the sub-menu...

VIDEO Return Close the sub-menu... (continued)

IF Return Close the sub-menu...

IF Return Close the sub-menu... (continued)

Tube type After replacing the NVM...

Tube type After replacing the NVM... (continued)

Tube type After replacing the NVM... (continued)

Tube type After replacing the NVM... (continued)

GEOMETRY Display Mode...

GEOMETRY Display Mode... (continued)

GEOMETRY Display Mode... (continued)

GEOMETRY Display Mode... (continued)

VIDEO Horizontal Delay...

VIDEO Horizontal Delay... (continued)

IF FFL - BI...

IF FFL - BI... (continued)

Tube type After replacing the NVM... (continued)

Tube type After replacing the NVM... (continued)

Tube type After replacing the NVM... (continued)

Tube type After replacing the NVM... (continued)

GEOMETRY V-Slope...

GEOMETRY V-Slope... (continued)

GEOMETRY V-Slope... (continued)

GEOMETRY H-Position...

GEOMETRY H-Position... (continued)

VIDEO Peak White...

VIDEO Peak White... (continued)

IF FFL - BI... (continued)

TUBE NAME LIST DESCRIPTION...

TUBE NAME LIST DESCRIPTION... (continued)

TUBE NAME LIST DESCRIPTION... (continued)

TUBE NAME LIST DESCRIPTION... (continued)

GEOMETRY V-Slope... (continued)

GEOMETRY V-Slope... (continued)

GEOMETRY V-Slope... (continued)

GEOMETRY H-Position... (continued)

GEOMETRY H-Position... (continued)

VIDEO Peak White... (continued)

VIDEO Peak White... (continued)

IF FFL - BI... (continued)

TUBE NAME LIST DESCRIPTION... (continued)

TUBE NAME LIST DESCRIPTION... (continued)

TUBE NAME LIST DESCRIPTION... (continued)

TUBE NAME LIST DESCRIPTION... (continued)

GEOMETRY V-Slope... (continued)

GEOMETRY V-Slope... (continued)

GEOMETRY V-Slope... (continued)

GEOMETRY H-Position... (continued)

GEOMETRY H-Position... (continued)

VIDEO Peak White... (continued)

VIDEO Peak White... (continued)

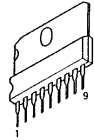
IF FFL - BI... (continued)



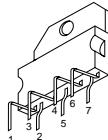
**LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN  
LISTA DELLE ABBREVIAZIONI - LISTA DE ABBREVIACIONES**

● <b>ABL</b>	AVERAGE BEAM CURRENT LIMITING	● <b>IIC-CL-1</b>	I2C CLOCK BUS 1
● <b>AQR_ON</b>	DISABLE AQUISITION MODE REGUL. ENABLE PWM PULSE	● <b>IIC-CL-2</b>	I2C CLOCK BUS 2
● <b>AV1_8</b>	PIN_8 DETECTOR	● <b>INF_POW_FAIL</b>	POWER FAIL INFORMATION
● <b>AV_LINK</b>	AV_LINK DATAS VCR/TV	● <b>IR</b>	INFRARED RECEIVER
● <b>AV_R_OUT</b>	AUDIO RIGHT-OUT	● <b>LDR</b>	LED DISPLAY
● <b>AV_L_OUT</b>	AUDIO LEFT-OUT	● <b>MUTE</b>	MUTES AUDIO AMPLIFIERS
● <b>AV_R_IN</b>	AUDIO RIGHT-IN	● <b>NMI</b>	NON MASKABLE INTERRUPT
● <b>AV_L_IN</b>	AUDIO LEFT-IN	● <b>PAN_SWITCH</b>	SIGNAL FOR PANORAMA CIRCUIT
● <b>AV_B</b>	BLUE SIGNAL FROM AV	● <b>PHI2_REF</b>	PHI2 REFERENCE SIGNAL
● <b>AV_G</b>	GREEN SIGNAL FROM AV	● <b>PIF</b>	PICTURE IF SIGNAL
● <b>AV_R</b>	RED SIGNAL FROM AV	● <b>PKS</b>	PEAK SENSING
● <b>AV_C_IN</b>	CHROMA-IN	● <b>PO</b>	POWER ON
● <b>AV_FB</b>	FAST BLANK SIGNAL FROM AV SCART	● <b>PWM</b>	PULSE WIDTH MODULATION
● <b>AV_Y_IN</b>	VIDEO-IN	● <b>RES_MSP</b>	MSP RESET
● <b>BEAM_INFO</b>	BEAM CURRENT INFORMATION	● <b>RESET</b>	RESET TO MICROPROCESSOR
● <b>BLKCURR</b>	CUT OFF CURRENT	● <b>ROTATION</b>	OUTPUT OF EARTH FIELD CORRECTION STAGE
● <b>B_TXT</b>	BLUE SIGNAL OUTPUT (TEXT)	● <b>R_OUT</b>	RED SIGNAL TO VIDEO AMPLIFIER
● <b>B_OUT</b>	BLUE SIGNAL TO VIDEO AMPLIFIER	● <b>R_TXT</b>	RED SIGNAL OUTPUT (TEXT)
● <b>BREATHING</b>	COMPENSATE BREATHING PICTURE SIGNAL	● <b>PIF</b>	PICTURE IF SIGNAL
● <b>BSVM</b>	BEAM SCAN VELOCITY MODULATION	● <b>SIF</b>	SOUND IF SIGNAL
● <b>CNT1_20V</b>	SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BV001- BL111)	● <b>SSC</b>	SUPER SAND CASTLE
● <b>CNT2_20V</b>	SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BR003- BP005)	● <b>SSC_V_GUARD</b>	SAFETY DATA GENERATED BY THE VERTICAL AMPLIFIER TDA8177F
● <b>CRT</b>	CATHODE RAY TUBE	● <b>TRAP_INFO</b>	BG/L,L',D/K K' I SWITCH
● <b>CVBS</b>	VIDEO	● <b>+USYS</b>	SYSTEM VOLTAGE
● <b>CVBS_LB_DET</b>	LETTERBOX VIDEO DETECTION	● <b>+/- UA</b>	SOUND VOLTAGE
● <b>DEFL_SAFETY</b>	SAFETY INFORMATION FROM DEFLECTION	● <b>+UVERT</b>	POSITIVE SUPPLY VERTICAL VOLTAGE
● <b>DEGAUSS</b>	DEGAUSS SIGNAL	● <b>-UVERT</b>	NEGATIVE SUPPLY VERTICAL VOLTAGE
● <b>DPC</b>	DYNAMIC PHASE COMPENSATION SIGNAL	● <b>+UVFB</b>	POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER STAGE
● <b>EFC</b>	EARTH FIELD CORRECTION	● <b>+UVIDEO</b>	VIDEO VOLTAGE FOR THE CRT BOARD
● <b>EHT</b>	EXTREMELY HIGH TENSION	● <b>U_IN</b>	U FROM CHROMA DECODER
● <b>E.W_DRIVE</b>	EAST - WEST DRIVE SIGNAL	● <b>V_IN</b>	V FROM CHROMA DECODER
● <b>EW_PROT</b>	SAFETY SIGNAL FROM DIODE MODULATOR	● <b>V_DRIVE</b>	VERTICAL DEFLECTION DRIVE SIGNAL
● <b>FB DETEC</b>	FAST BLANKING DETECT	● <b>Y_IN</b>	Y FROM CHROMA DECODER
● <b>FB_TXT</b>	FAST BLANKING (TEXT)	● <b>5 V</b>	5V POWER SUPPLY SIGNAL BOARD
● <b>FW ADJ.</b>	FULL WHITE ADJUSTMENT	● <b>6 V</b>	6V POWER SUPPLY
● <b>G_OUT</b>	GREEN SIGNAL TO VIDEO AMPLIFIER	● <b>5V_UP</b>	MICROPROCESSOR SUPPLY VOLTAGE
● <b>G_TXT</b>	GREEN SIGNAL OUTPUT (TEXT)	● <b>10 V</b>	10V POWER SUPPLY
● <b>H_DRIVE</b>	DRIVE SIGNAL FOR HORIZONTAL DEFLECTION	● <b>8 V</b>	8V SUPPLY SIGNAL BOARD
● <b>HEATER</b>	HEATER OUTPUT FROM THE DST TO CRT	● <b>8V_STBY</b>	8V STANDBY
● <b>H DEFL. PROT.</b>	HORIZONTAL DEFLECTION PROTECTION	● <b>40V</b>	SUPPLY VOLTAGE TUNER
		● <b>20V</b>	SUPPLY VOLTAGE HORIZONTAL DRIVER AND BSVM CRT

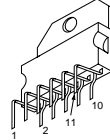
**INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS  
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR  
 CIRCUITOS INTEGRADOS Y TRANSISTORES**



TDA 8139  
TDA6111Q  
TEA5101B



TDA 8177



TDA7269



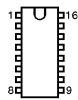
4N25TV



K324PG  
M24C32BNI  
MC7805CT  
MC7812CT  
MC33076/P1  
ST24C04-B1  
TDA4605  
X24164



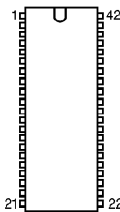
TL084C



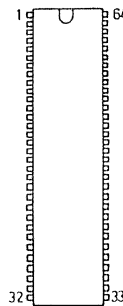
STV2145



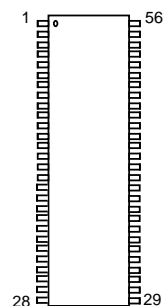
TEA6415C



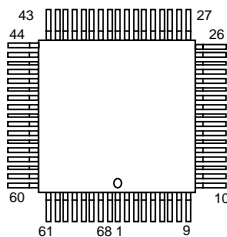
TDA9811



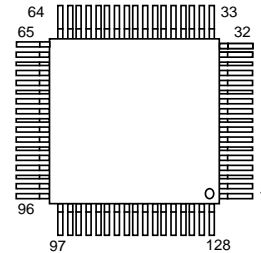
MPS3400  
MPS3410



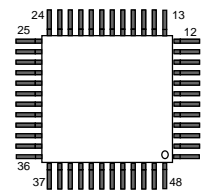
STV2040  
STV2162



MS3400C-PS  
MSP3410D-PS  
ST90R92



IC-QP128



MC141627



BCR141-BC846B  
BC 847B-BC856B  
BC857B-BF 799  
BC 848 A/B/C



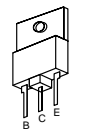
BC368  
BC639  
BF421  
BF 422  
BF423



BC327  
BC 337  
BC547B  
BC557B  
BC 548B  
BC 558B



2SA1837  
2SC4793  
2SC3675  
BD 241  
TIP122



BUL810TH  
BUV48CFITH16  
BW93CFI  
BW94CFI  
ON4977



7805  
7812  
L7912CV



BT806 -600C



STP6 NA60F1  
STP22NE03L  
2SK1460

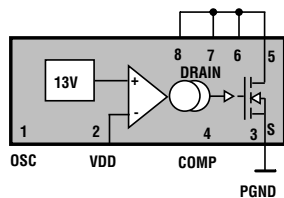


TR03-400T

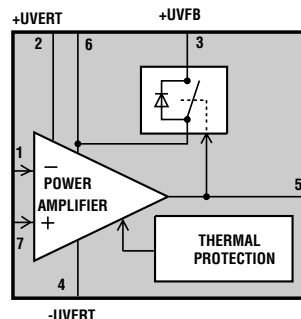
INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -  
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIEDER  
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE -NETZTEIL- UND ABLENKPLATINE -  
 PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

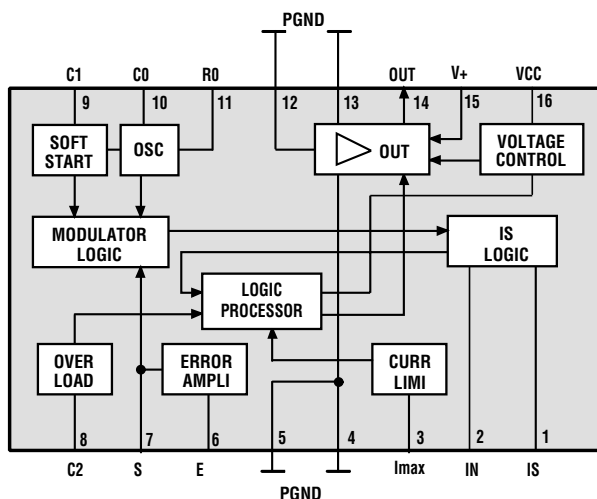
IP020 - VIPER20DIP



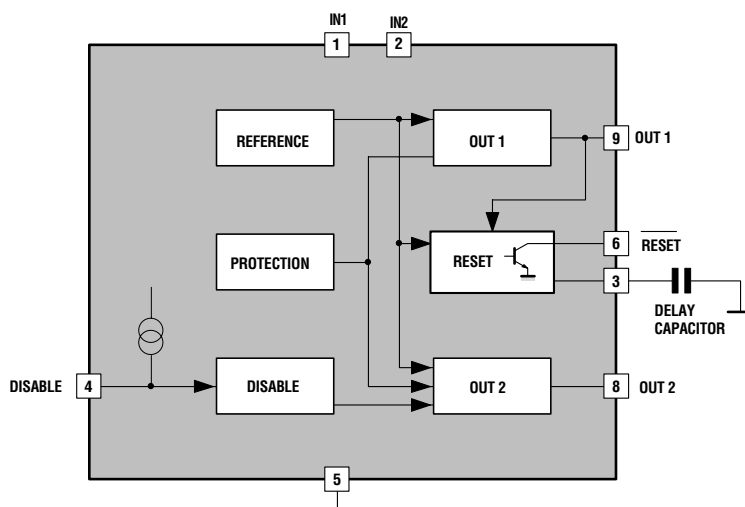
IF001 - TDA8177F



IP050 - TEA2262



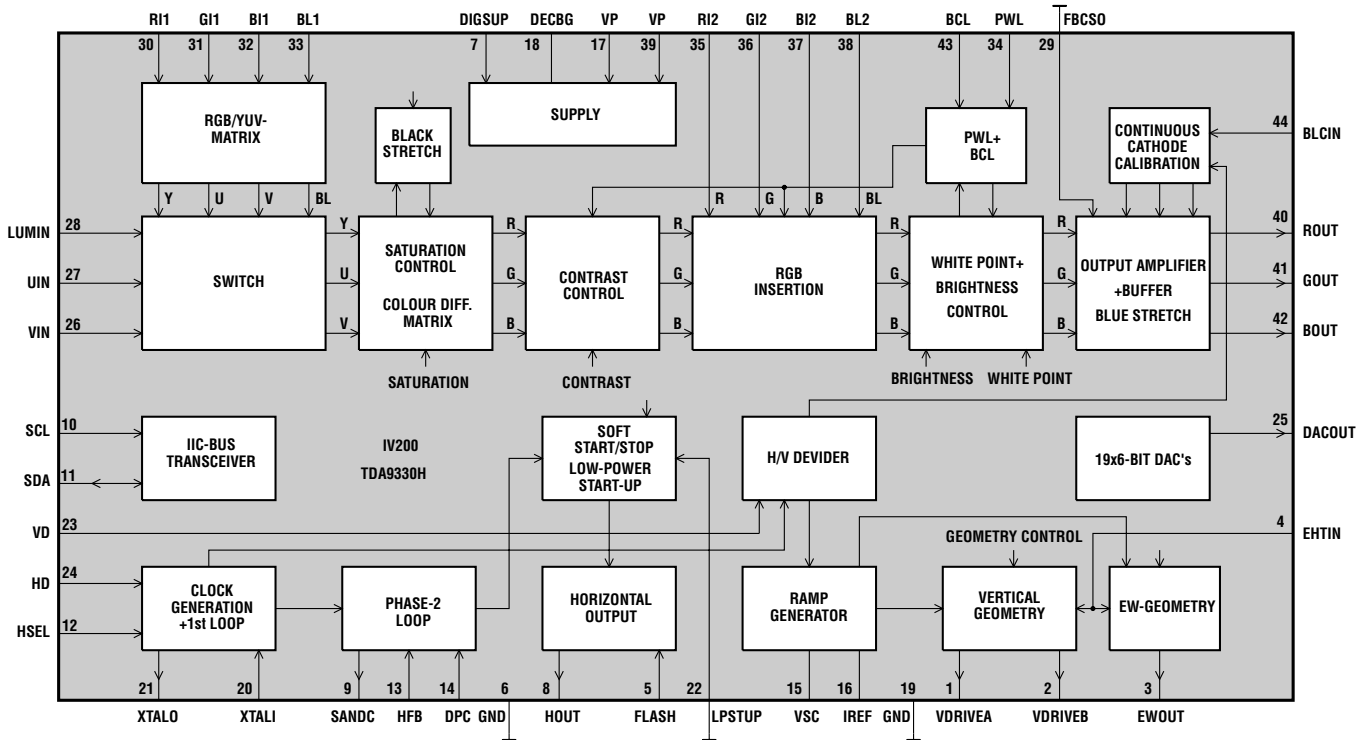
IP220 - TDA8139



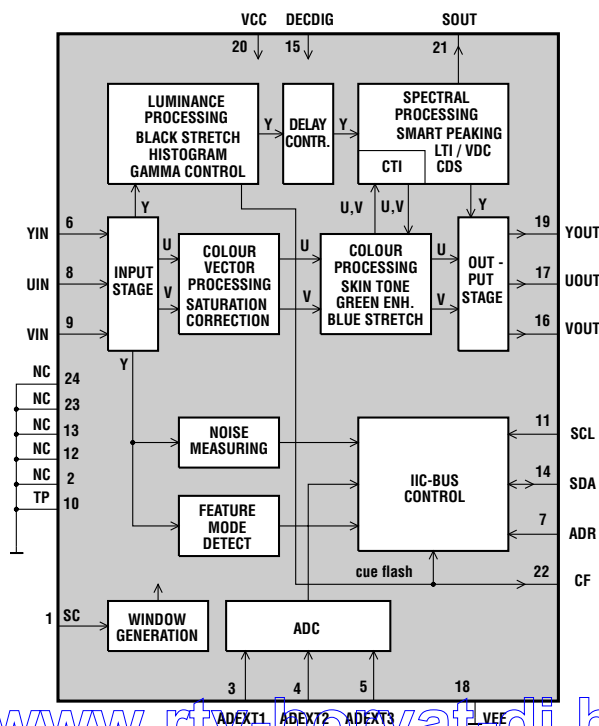
INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -  
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder  
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -  
 PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

IV200 - TDA9330H



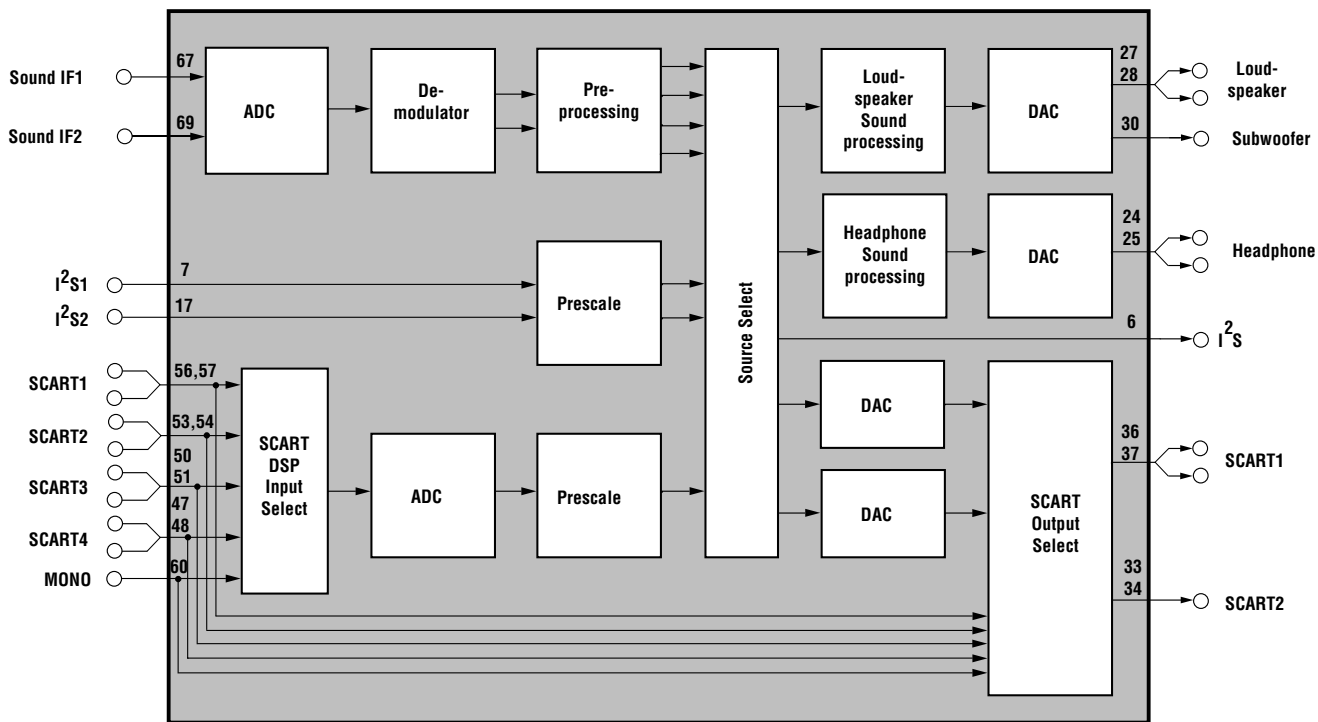
IV100 - TDA9178



INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -  
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder  
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

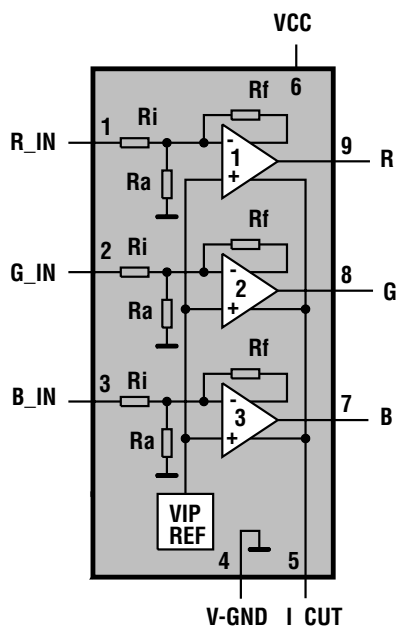
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -  
 PIASTRA PICCOLI SEGNAli - PLACA PEQUEÑA SEÑAL

IA001 - MSP 34X0G



VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG -  
 ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

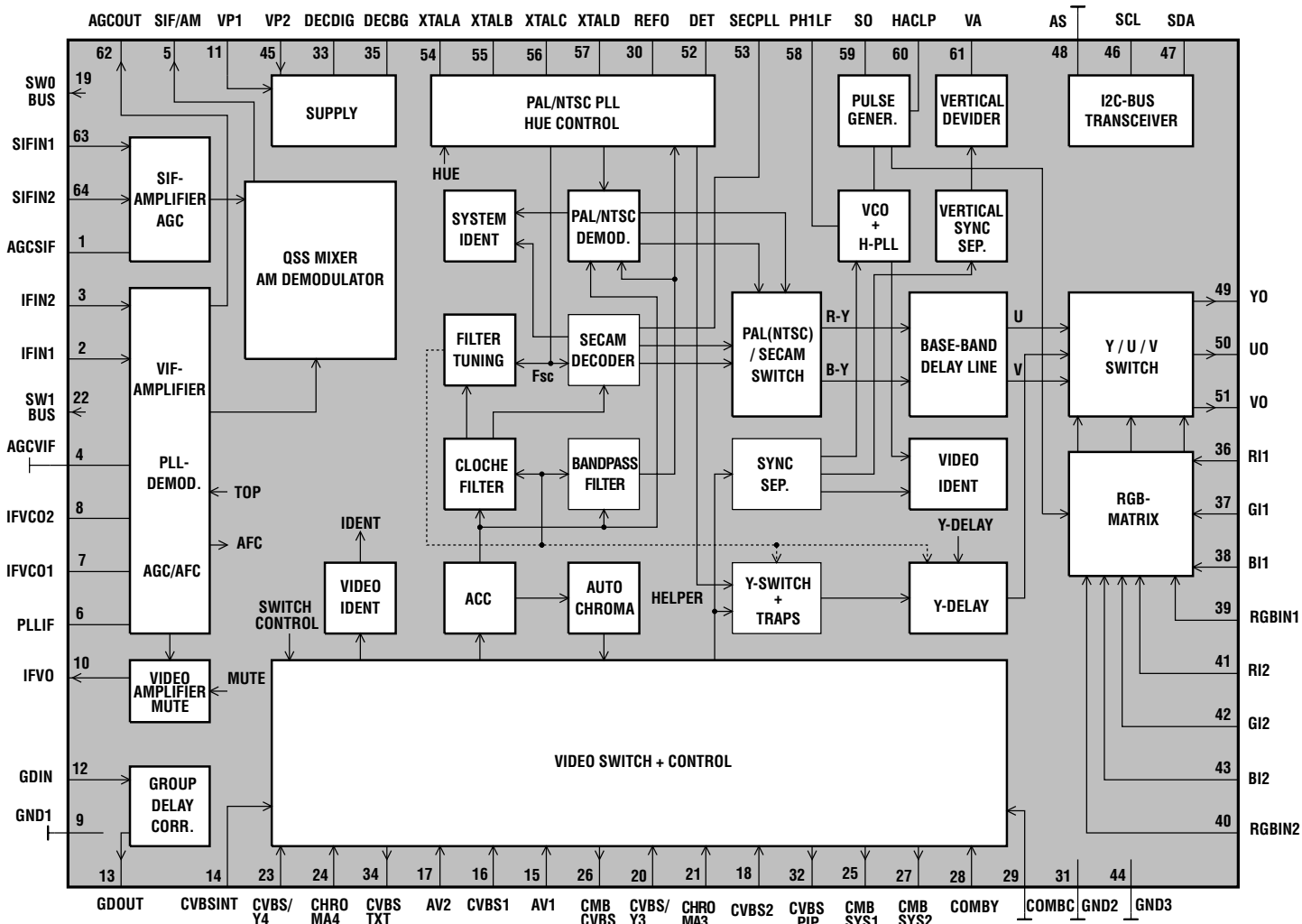
IB001 - TDA6108JF



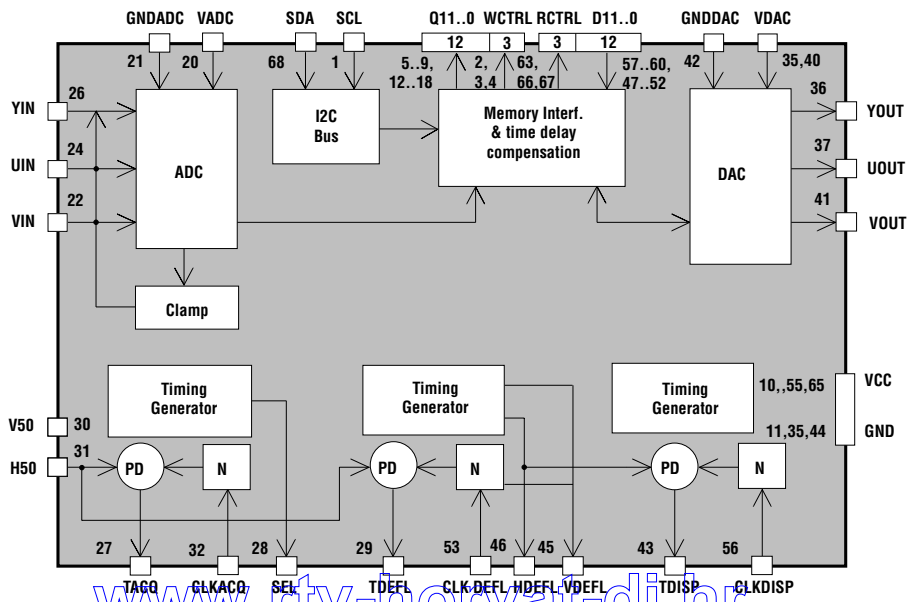
INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -  
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder  
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -  
 PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

IC001 - TDA9321H



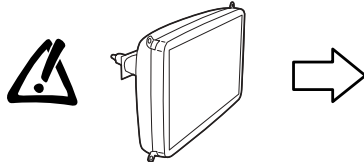
IU308 - DMU0





**PARTS LIST  
LISTE PIECES DETACHEES  
ERSATZTEILLISTE  
LISTA PARTI DI RICAMBIO  
LISTA DE PIEZAS DE REPUESTO**

**THOMSON  
29DF400G  
Chassis ICC20**



<b>A68EJZ011X121</b>	▶	<b>Version 1 : 29DF400G1</b>
<b>A68QCP893X007</b>	▶	<b>Version 2 : 29DF400G2</b>

29DF400G Version 1		
MODULES		
<b>PSB</b>	<b>C20PB20 B*EZ****0*</b>	<b>R 10675390</b>
<b>SSB</b>	<b>C20SB20 B5**02R011</b>	<b>R 10695260</b>
<b>GK101</b>	TSOP1333	25358570
<b>IA000</b>	TDA7269	10348790
<b>IA001</b>	MSP3410G-QA-B6 FLAT	10668490
<b>IA003</b>	MC4558CD FLAT IC	10276220
<b>IB001</b>	TDA6108JF	10616240
<b>IC001</b>	TDA9321H FLAT	25394190
<b>IF001</b>	TDA8177F	10352880
<b>IP020</b>	VIPER20DIP	25408950
<b>IP050</b>	TEA2262	10495720
<b>IP070</b>	TLP621 GR(D4-LF2 T)	△ 20827900
<b>IP170</b>	LM393/NJM2903D	46069900
<b>IP220</b>	TDA8139	10044580
<b>IR001</b>	ST92R195 CUT 2.2 FLAT	10588150
<b>IR002</b>	IC-ROM THOMSON V1.20-0	1068569B
<b>IR002</b>	IC-ROM THOMSON V1.30-0	1071974B
<b>IR002</b>	MX27C8000MC-10 V1.00-0	25463740
<b>IR004</b>	CXK581000AM-70LL FLAT	10331960
<b>IR005</b>	M24C16MN6 FLAT	25348520
<b>IR006</b>	TCE2ACU FLAT	10314670
<b>IR007</b>	74LS00 FLAT	10487230
<b>IU304,IV520</b>	LM358D FLAT	25335740
<b>IU308</b>	DMUO-UP FLAT	10325580
<b>IU309</b>	SAA4956TJ FLAT	10645970
<b>IU390</b>	LE33CD FLAT	10670590
<b>IV100</b>	TDA9178	10648660
<b>IV200</b>	TDA9330H FLAT	10648670
<b>ZL221,251</b>	MP125	△ 10469180

<b>ZL231</b>	MP40	△ 10469170
<b>ZP009</b>	MP315	△ 10575090
<b>ZR001,002</b>	MP63	△ 10472270
<b>ZR003,004</b>	MP32	△ 25405650
<b>TA130,145,</b>	BCR141 SMD	16006890
<b>TI003,006,</b>		
<b>TR013,030,060</b>		
<b>TB001,TL311</b>	BF422	16003090
<b>TF041,TL312,</b>	BC556B	16001020
<b>TP173,179</b>		
<b>TG001</b>	BF199	16002950
<b>TG002</b>	BF370	25420830
<b>TG006</b>	BD140-16	25425020
<b>TG007</b>	BD139-16	16001760
<b>TG011,TL003,</b>	BC546B	45001866
<b>TP026,080,115,</b>		
<b>151,152,158,</b>		
<b>160,161,184,</b>		
<b>185,197,221,</b>		
<b>TV513</b>		
<b>TI010,030,</b>	BC846B SMD	16006260
<b>TR062,120,</b>		
<b>TT080,TU321,</b>		
<b>322,TV008,300,</b>		
<b>310,320,TX110,</b>		
<b>111,112,116,</b>		
<b>131,231,251,</b>		
<b>252,256,257,</b>		
<b>307,327,500,</b>		
<b>503,605,623,</b>		
<b>643</b>		
<b>TL004</b>	MPSW01A	70436520
<b>TL005</b>	MPS750	16001340
<b>TL010</b>	ON4977/BU2525AX	10461310
<b>TL029</b>	STP10NB20FP	25414550
<b>TP020</b>	STH13NB60FI	25381050
<b>TP057</b>	BC337-40	45001466
<b>TP150</b>	STP22NF03L (TO220)	2534195A

<b>TR015,061,</b>	BC856B SMD	16006310
<b>TT050,060,070,</b>		
<b>TU300,304,308,</b>		
<b>330,TV006,011,</b>		
<b>031,051,286,</b>		
<b>TX115,235,305,</b>		
<b>309,325,329,</b>		
<b>600,607,620,</b>		
<b>627,640,647</b>		
<b>TR020,TV521,</b>	DTC113ZK SMD	10550750
<b>522,526</b>		
<b>TU303,305,307</b>	BF660 SMD	16005830
<b>TU306</b>	BF799 SMD	35031670
<b>TV277</b>	BC327-40	16000450
<b>TX109,209</b>	BCR191 SMD	16006910
<b>DA090,092,</b>	BAV103 SMD	10155030
<b>DV271,276,</b>		
<b>DX107,207,230</b>		
<b>DA110</b>	LL42 SMD	16012530
<b>DA130,145,</b>	LL4148 SMD	16012450
<b>DH030,DR030,</b>		
<b>113,DU386,</b>		
<b>DV286,520,521,</b>		
<b>523,524,529,</b>		
<b>530,531,DX253,</b>		
<b>522,527</b>		
<b>DB004</b>	1N4004	44009009
<b>DB006,030,031,</b>	BAV21	44044407
<b>050,051,070,</b>		
<b>071,DL043,305,</b>		
<b>DP023</b>		
<b>DF011</b>	BZW04-58	10368210
<b>DF031,033,</b>	RGP10G	10459090
<b>DL302,303,</b>		
<b>DP061,220</b>		

**R : RECYCLED PART**  
**: PIECE RECYCLEE**  
**: AUSTAUSCHTEILE**  
**: RICAMBIO RICICLATO**  
**: MODULO REPROCESADO**

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**VERSION 1 03 / 2002 35191580**  
**VERSION 2 11 / 2002**

DG001,002,003, 004,DL001,073, DP024,054,055, 057,064,069, 115,158,160, 161,170,183, 188,193,194, 196,197,221, 230	1N4148	44009209
DG026	BZX55C6V8	50890650
DH010	ZMM33 SMD	10376460
DI006	BA782S SMD	20542050
DL012,012	RGP15G	10272800
DL028,222,252	1N4001	16008160
DL029	RGP02-20	10472330
DL030	DTV32F-1500	10452490
DL032	STTA806DI	25422190
DL034,036	EGP10D	20953640
DL201,DP112	MUR1100E	10360280
DL221,251, DP008	FUF5404	20150190
DL221,251	FUF5402	10458530
DL231,DP020, 051,113	FUF4005/MUR160	16009580
DL301	BZX85C18	50890010
DP001,002,003, 004,006	GP30M	10455410
DP021	RGP10M	10455320
DP053	BZX55B15/ZPD15 2%	80444020
DP110	BYT08PI-1000	25442210
DP120,140	S410D	10527250
DP130,135	MUR420	16009630
DP150	BYW29-150	16009140
DP152	ZPD10 2%	80444160
DR031	ZMM5,1 SMD	70446740
DU301,305,309	BB729S SMD	20265900
DU303,304	BA592 SMD	16012160
DV006	ZMM2,7 SMD	16030100
DV270	ZMM3,9 SMD	16030210
DX101,103,105, 201,203,205	ZMM6,8 SMD	70439940
DX250	BZX84B8V2 SMD	25385640
GE101	TLUV5300 LED	11137650



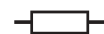
FI007	OFWK9650M FOS	10545440
FI025	OFWK3953M FOS	20687810
QA001	18M432HZ	10334670
QC020	4M433619HZ	10397980
QC021	3M579545HZ	10087720
QI033	5M74HZ	20338170
QR001	4M0HZ	10254300
QV400	12M0HZ	25418130



FI001	31M9HZ	10552630
FI021	40M4HZ	20300950
FI028	77M8HZ	10559760
LL029	OST-WEST	10347650
LL034		10153270
LP112		13080320
LU315	2U7F	25441650
LU318	1U44H	25441620
LU331	1U0H	25441610



PP180	1K0 OHM	70434550
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RA051,080,120, 121	4R7 OHM 5% 0,35W	△ 10226310
RB001,004	1K5 OHM 5% 0,50W	10121880
RB031,051,071	560R0 OHM 10% 0,50W	10257590
RB032,052,072, RE102,RP181	100R0 OHM 5% 0,25W	30943330
RF003,006	1K3 OHM 1% 0,40W	15012810
RF008,011,012	1R5 OHM 1% 0,70W	10451140
RG026,027	3K3 OHM 5% 3W	30941170
RG030	22R0 OHM 5% 0,25W	△ 35031220
RK101	453R0 OHM 1% 0,250W	15018140
RK102	681R0 OHM 1% 0,25W	15020310
RK103	1K5 OHM 1% 0,25W	80437630
RK104	3K32 OHM 1% 0,25W	15017270
RL015	6R8 OHM 5% 0,25W	△ 41023309
RL021	1R82 OHM 1% 0,70W	10451420
RL022,RP228	1K0 OHM 1% 0,25W	15012570
RL023	3M9 OHM 2% 0,40W	13057750
RL024	100K0 OHM 1% 0,25W	15010160
RL027	2K2 OHM 5% 0,50W	△ 10239310
RL037	330R0 OHM 10% 0,50W	14050190
RL044	348K0 OHM 1% 0,25W	15016620
RL221,251	0R27 OHM 5% 2,50W	10263600
RL231	4R7 OHM 5% 2,5W	10471330
RL303	33K2 OHM 1% 0,25W	15016530
RL308	17K4 OHM 1% 0,25W	15012140
RL310	46K4 OHM 1% 0,70W	10403710
RL311	2K21 OHM 1% 0,25W	15015480
RP004	2R7 OHM 5% 4,50W	10379110
RP015	18R0 OHM 220V PTC	△ 41398800
RP020	100R0 OHM 5% 0,75W	△ 10230030
RP027,179	8K25 OHM 1% 0,25W	15021830
RP027	3K9 OHM +5% 140MI0W	15008110
RP049	33R0 OHM 5% 2W	50888890
RP050	10M0 OHM 5% 0,70W	△ 20564520
RP051	100R0 OHM 5% 4,50W	10379830
RP052	0R1 OHM 5% 2,50W	△ 10288160
RP090	22K1 OHM 1% 0,25W	60442350
RP112	1K2 OHM 5% 2W	10134060
RP166	47K 5% 0.140W	15008400
RP180	205K0 OHM 1% 0,40W	15013970
RP227	2K26 OHM 1% 0,25W	15015500
RV008	330R0 OHM +5% 62MI5W	10134870



CB001	10N0F 3K0V	14036450
CB004,CL043	100N0F 20% 250V	13072860
CL028	100P0F 20% 1K0V	14035280
CL030	1N3F 2,5% 2K0V	10661380
CL031	11N6F 2,5% 2K0V	40406501
CL032	27N0F 5% 630V	10679680
CL034	12N0F 2% 400V	10672180
CL035	46N0F 5% 400V	10348250
CL038,039	27N0F 5% 250V	50895120
CL201,221,231, 251	330P0F 20% 1K0V	14035270
CL301	10N0F 5% 400V	10588870
CP001,002	100N0F 20% 275V	△ 10331520
CP003,004,005	4N7F 1K0V	10058740
CP006	470N0F 10% 400V	10469630
CP007	560N0F 5% 250V	10376360
CP008,051,121, 131,136,141	470P0F 10% 2K0V	10099390
CP010	390U0F 20% 400V	25444380
CP015	68N0F 20% 250V	10256210
CP018	330N0F 10% 63V	13076090
CP020,020,111	470P0F 10% 2K0V	25392030
CP021	1N0F 5% 400V	13055520
CP022	220P0F 10% 1K0V	25460410
CP027	22N0F +10% 63.0V	13078160
CP027	10N0F 2.5% 63V	13074070
CP030	4N7F +10% 100.0V	70427740
CP049	1N5F 20% 400V	△ 10442770
CP050	150P0F 20% 400V	△ 20738090
CP052	2N2F 10% 1K0V	13090980
CP112,112	1N5F 10% 1K0V	43402900
CR012,072,074, 077,CU357,378, 379,385	1U0F 10% 16V SMD	15413370
CU324,342	10P0F +0P5F -0P5F 50V	20548230
CU337	22N0F 10% 25V	20947360
CU341	39P0F 5% 50V	20719460
CU343	1N0F 10% 50V	10138550
CU344,345	180P0F 5% 50V	20779170



LL001		10669660
LL008	DSTFBT 1372.0057	△ 10679360
LL033		10347660
LL037		△ 10518230
LP001		△ 10203560
LP006	600U0H	10660260
LP008	35U0H	10651740
LP020	STAND-BY	△ 25425970
LP050	SMT7LZ	△ 10643540
LP070	DRIVER	△ 60412091

**OTHER PARTS  
AUTRES PIECES  
SONSTIGE TEILE  
ALTRE PARTI  
OTRAS PIEZAS**

<b>BA005</b>	CONNECTOR BA005 CONNECTEUR BA005 STECKVERBINDUNG BA005 CONNETTORE BA005 CONECTOR BA005	11095570
<b>BA007</b>	CONNECTOR BA007 CONNECTEUR BA007 STECKVERBINDUNG BA007 CONNETTORE BA007 CONECTOR BA007	90581950
<b>BA008</b>	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	90541842
<b>BA009</b>	CONNECTOR BA009 CONNECTEUR BA009 STECKVERBINDUNG BA009 CONNETTORE BA009 CONECTOR BA009	90581940
<b>BA010</b>	CONNECTOR BA010 CONNECTEUR BA010 STECKVERBINDUNG BA010 CONNETTORE BA010 CONECTOR BA010	70438840
<b>BA012</b>	CONNECTOR BA012 CONNECTEUR BA012 STECKVERBINDUNG BA012 CONNETTORE BA012 CONECTOR BA012	30959990
<b>BB010</b>	CATHODE RAY TUBE SOCKET $\Delta$ SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	80298800
<b>BJ010</b>	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	10037440
<b>BJ011</b>	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS	20392900
<b>BL111, BP005</b>	CABLE FLAT 21 PINS 70MM CABLE NAPPE 21 VOIES 70MM KABEL FLACH 21 PINS 70MM CAVO FALDO 21 SPINOTTI 70MM CABLE 21 11 PUNTOS 70MM	25413180
<b>BQ012</b>	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK	10539510
<b>BR001</b>	CONNECTOR BR001 CONNECTEUR BR001 STECKVERBINDUNG BR001 CONNETTORE BR001 CONECTOR BR001	20459464
<b>BV300</b>	CONNECTOR BV300 CONNECTEUR BV300 STECKVERBINDUNG BV300 CONNETTORE BV300 CONECTOR BV300	80448080
<b>BX004</b>	CONNECTOR BX004 CONNECTEUR BX004 STECKVERBINDUNG BX004 CONNETTORE BX004 CONECTOR BX004	20487680

<b>BX100,200,300</b>	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONECTOR	25421870
<b>CH200</b>	ON/OFF SWITCH MSB2000 $\Delta$ CONTACTEUR MARCHE/ARRET MSB2000 EIN-AUS SCHALTER MSB2000 CONTATTORE ACCESO/ SPENTO MSB2000 CONTACTOR MARCHA/PARADA MSB2000	10276500
<b>CJ020</b>	CABLE WITH CONNECTOR 10 PINS 380MM CABLE AVEC CONNECTEUR 10 VOIES 380MM KABEL MIT VERBINDER 10 PINS 380MM CAVO CON CONNETTORE 10 SPINOTTI 380MM CABLE CON CONECTOR 10 PUNTOS 380MM	25434810
<b>CJ030</b>	CABLE WITH CONNECTOR 6 PINS 500MM CABLE AVEC CONNECTEUR 6 VOIES 500MM KABEL MIT VERBINDER 6 PINS 500MM CAVO CON CONNETTORE 6 SPINOTTI 500MM CABLE CON CONECTOR 6 PUNTOS 500MM	25460570
<b>CJ035</b>	CABLE WITH CONNECTOR 3 PINS 580MM CABLE AVEC CONNECTEUR 3 VOIES 580MM KABEL MIT VERBINDER 3 PINS 580MM CAVO CON CONNETTORE 3 SPINOTTI 580MM CABLE CON CONECTOR 3 PUNTOS 580MM	30020170
<b>CJ050</b>	CABLE WITH CONNECTOR 7 PINS 500MM WHITE CABLE AVEC CONNECTEUR 7 VOIES 500MM BLANC KABEL MIT VERBINDER 7 PINS 500MM WEIB CAVO CON CONNETTORE 7 SPINOTTI 500MM BIANCO CABLE CON CONECTOR 7 PUNTOS 500MM BLANCO	25018710
<b>CJ100</b>	THT CABLE $\Delta$ CABLE THT KABEL THT CAVO THT CABLE THT	10664300
<b>CJ105</b>	CABLE 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED KABEL 460MM 20KV HT STRIPPED CAVO 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED	10369650
<b>CJ130</b>	CABLE WITH CONNECTOR 6 PINS 740MM RED CABLE AVEC CONNECTEUR 6 VOIES 740MM ROUGE KABEL MIT VERBINDER 6 PINS 740MM ROT CAVO CON CONNETTORE 6 SPINOTTI 740MM ROSSO CABLE CON CONECTOR 6 PUNTOS 740MM ROJO	25485670

<b>FP001</b>	2A5T 250V TIME-LAG FUSE $\Delta$ 2A5T 250V FUSIBLE TEMPORISE 2A5T 250V SICHERUNG 2A5T 250V FUSIBILE TEMPORIZZATO 2A5T 250V FUSIBLE TEMPORIZADO	10246750
<b>NH001</b>	CTT5010 UHF/VHF TUNER CTT5010 TETE UHF/VHF CTT5010 UHF/VHF TUNER CTT5010 TUNER UHF/VHF CTT5010 SINTONIZADOR UHF/VHF	20812280
<b>SK101,102,103,104</b>	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUPTORE MICROCONTACTOR	30011100
<b>SP015</b>	RELAY 12V RELAIS 12V RELAIS 12V RELE 12V RELE 12V	$\Delta$ 90294100

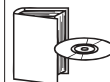
**EQUIPMENT/PRESENTATION  
EQUIPEMENT/PRESENTATION  
AUSSTATTUNG/GEHAEUSE  
PARTI VARIE  
EQUIPO/PRESENTACION**

FRONT PANEL SI04TH	25582260
FACADE SI04TH	
FRONTPLATTE SI04TH	
PANNELLO FRONTALE SI04TH	
PANEL FRONTAL SI04TH	
REAR PANEL GY37TH	△ 25582240
DOS GY37TH	
RUECKWAND GY37TH	
PANNELLO POSTERIORE GY37TH	
TAPA POSTERIOR GY37TH	
JACK PANEL GY37TH	△ 25526850
TABEAU DE PRISES GY37TH	
JACK FRONTPLATTE GY37TH	
QUADRO DI PRESA JACK GY37TH	
TABLERO DE TOMA JACK GY37TH	
LOUDSPEAKER GRID BOOMER GY37TH	25539940
GRILLE HAUT PARLEUR GRAVES GY37TH	
LAUTSPRECHER GITTER TIEFTOENER GY37TH	
GRIGLIA ALTOPARLANTE SUPERIOR GY37TH	
REJILLA ALTAVOZ GRAVES GY37TH	
FLAT RIGHT 100HZ SI04TH	25582450
VOLET DROIT 100HZ SI04TH	
KLAPPE RECHTS 100HZ SI04TH	
SPORTELLO DESTRO 100HZ SI04TH	
TAPA DERECHA 100HZ SI04TH	
FLAP LEFT SI04TH	25582460
VOLET GAUCHE SI04TH	
KLAPPE LINKS SI04TH	
SPORTELLO SINISTRO SI04TH	
TAPA IZQUIERDO SI04TH	
SPRING CATCH, PLASTIC	65040100
LOQUETEAU PLASTIQUE	
DRUCKSCHNAPPER	
CHIUSURA DI PLASTICA	
PESTILLO PLASTICO	
LOGO THOMSON	25481300
LOGO THOMSON	
SCHRIFTZUG THOMSON	
MARCHIO THOMSON	
LOGOTIPO THOMSON	
CHASSIS SUPPORT	25413970
SUPPORT CHASSIS	
CHASSIS HALTER	
SUPPORTO CHASSIS	
SOPORTE CHASSIS	
CHASSIS SLIDE SECURING	25413960
GLISSIERE FIXATION CHASSIS	
SCHIEBER BEFESTIGUNG CHASSIS	
SVIVOLO DI FISSAGGIO CHASSIS	
CORREDERA DE SUJECION CHASIS	
LOUSPEAKER GUIDE	25464180
CORNET ACOUSTIQUE	
FUEHRUNGSSCHIENE LAUTSPRECHER	
GUIDA ALTOPARLANTE	
GUIA ALTAVOZ	
8R OHM 15W LOUDSPEAKER 60X125	10467060
8R OHM 15W HAUT PARLEUR 60X125	
8R OHM 15W LAUTSPRECHER 60X125	
8R OHM 15W ALTOPARLANTE 60X125	
8R OHM 15W ALTAVOZ 60X125	

8R OHM 15W LOUDSPEAKER 27X42	10317160
8R OHM 15W HAUT PARLEUR 27X42	
8R OHM 15W LAUTSPRECHER 27X42	
8R OHM 15W ALTOPARLANTE 27X42	
8R OHM 15W ALTAVOZ 27X42	
SUPPORT CU AND BUTTON SI04TH	25582270
SUPPORT CU ET TOUCHES SI04TH	
HALTER CU UND TASTE SI04TH	
SUPPORTO CU E TASTO SI04TH	
SOPORTE CU Y TECLA SI04TH	
ON/OFF SWITCH SUPPORT	25315270
SUPPORT CONTACTEUR MARCHE/ARRET	
HALTER EIN-AUS SCHALTER	
SUPPORTO CONTATTORE ACCESO/SPENTO	
SOPORTO CONTACTOR MARCHA/PARADA	
ON/OFF BUTTON SI04TH	25582310
TOUCHE MARCHE/ARRET SI04TH	
EIN-AUS TASTE SI04TH	
TASTA ACCESSO/SPENTO SI04TH	
TECLA MARCHA/PARADA SI04TH	
POWER SUPPLY LEAD	△ 10260880
CORDON D'ALIMENTATION	
NETZKABEL	
CAVO DI ALIMENTAZIONE	
CABLE DE ALIMENTACION	
CORD STOPPER	25071420
ATTACHE CORDON SECTEUR	
ZUGENTLASTUNG	
BRIDA CORDONE DI ALIMENTAZIONE	
SUJECION CABLE DE ALIMENTACION	
A68EJZ011X121 CATHODE RAY TUBE	△ 10676020
A68EJZ011X121 TUBE CATHODIQUE	
A68EJZ011X121 FARBBILDROEHRE	
A68EJZ011X121 TUBO CATODICO	
A68EJZ011X121 T.R.C	
DEGAUSSING COIL 1077MM	△ 10669710
BOBINE DE DEMAGNETISATION 1077MM	
ENTMAGNETISIERUNGSSPULE 1077MM	
BOBINA DI SMAGNETIZZAZIONE 1077MM	
BOBINA DE DESMANTACION 1077MM	
RCT100 REMOTE CONTROL	10546340
RCT100 TELECOMMANDE	
RCT100 FERNBEDIENUNG	
RCT100 TELECOMANDO	
RCT100 TELEMANDO	
FOLDING BOX	25418560
EMBALLAGE CARTON	
KARTON	
IMBALLAGGIO CARTONE	
EMBALAJE CARTON	
FITTING UPPER	25414600
CALE SUPERIEURE	
POLSTER OBEN	
DISTANZIATORE SUPERIORE	
CALZO SUPERIOR	
FITTING DOWNER	25414590
CALE INFERIEURE	
POLSTER UNTEN	
DISTANZIATORE INFERIORE	
CALZO INFERIOR	

**MAINTENANCE TOOLS  
MAINTENANCE  
WERKZEUG FUER DAS GERAET  
UTENSILI DI MANUTENZIONE  
MANTENIMIENTO**

ICC20 POWER SUPPLY REPAIR KIT	35134130
ICC20 KIT DE MAINTENANCE ALIMENTATION	
ICC20 REPARATURSET NETZTEIL TV	
ICC20 KIT PER RIPARARE L'ALIMENTAZIONE	
ICC20 KIT DE REPARACION DE ALIMENTACION	
EXTENSION CABLE 21 PINS 350MM	35120540
CABLE PROLONGATEUR 21 VOIES 350MM	
VERLAENGERUNGSKABEL 21 PINS 350MM	
CAVO DI PROLUNGA 21 SPINOTTI 350MM	
CABLE PROLONGADOR 21 PINS 350MM	



ICC20 SM PACK	35149810
ICC20 SM PACK	
ICC20 SM PACK	
ICC20 SM PACK	
ICC20 SM PACK	
29DF400G PARTS LIST	35191580
29DF400G LISTE DE PIECES DETACHEES	
29DF400G ERSATZTEILLISTE	
29DF400G LISTA PARTI DI RICAMBIO	
29DF400G LISTA DE PIEZAS DE REPUESTO	
CDROM ICC20 VERSION 2	35183760
CDROM ICC20 VERSION 2	
CDROM ICC20 VERSION 2	
CDROM ICC20 VERSION 2	
CDROM ICC20 VERSION 2	
ICC20 SERVICE MANUAL SUPPLEMENT	35180550
ICC20 DOC TECHNIQUE ADDITIF	
ICC20 SECHNISCHE DOKUMENTATION ZUSAT	
ICC20 DOCUMENTAZIONE ADDITIVO	
ICC20 DOCUMENTACION ADITIVO	
ICC20 SERVICE MANUAL EUROPE	35118540
ICC20 DOC TECHNIQUE EUROPE	
ICC20 TECHNISCHE DOKUMENTATION EUROPE	
ICC20 DOCUMENTAZIONE TECNICA EUROPE	
ICC20 DOCUMENTACION TECNICA EUROPE	
C20 UM 15 LANGUAGE	25490140
C20 NU 15 LANGUES	
C20 BA 15 SPRACHE	
C20 IU 15 LINGUA	
C20 IU 15 LENGUA	

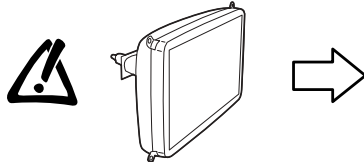
**OPTION  
OPTION  
OPTION  
OPZIONE  
OPCION**

STTX290I TV STAND	35147250
STTX290I MEUBLE TV	
STTX290I TV-SCHRANK	
STTX290I MOBILE TV	
STTX290I MUEBLE TV	

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**PARTS LIST**  
**LISTE PIECES DETACHEES**  
**ERSATZTEILLISTE**  
**LISTA PARTI DI RICAMBIO**  
**LISTA DE PIEZAS DE REPUESTO**

**THOMSON**  
**29DF400G**  
**Chassis ICC20**



**A68EJZ011X121** ▷ **Version 1 : 29DF400G1**  
**A68QCP893X007** ▷ **Version 2 : 29DF400G2**

## 29DF400G Version 2

### MODULES

**PSB C20PB20 B\*ER\*\*\*\*0\*** R **10792920**  
**SSB C20SB20 B5\*\*02R011** R **10695260**



<b>GK101</b>	TSOP1333	25358570
<b>IA000</b>	TDA7269	10348790
<b>IA001</b>	MSP3410G-QA-B6 FLAT	10668490
<b>IA003</b>	MC4558CD FLAT IC	10276220
<b>IB001</b>	TDA6108JF	10616240
<b>IC001</b>	TDA9321H FLAT	25394190
<b>IF001</b>	TDA8177F	10352880
<b>IP020</b>	VIPER20DIP	25408950
<b>IP050</b>	TEA2262	10495720
<b>IP070</b>	TLP621 GR(D4-LF2 T)	△ 20827900
<b>IP170</b>	LM393/NJM2903D	46069900
<b>IP220</b>	TDA8139	10044580
<b>IR001</b>	ST92R195 CUT 2.2 FLAT	10588150
<b>IR002</b>	IC-ROM THOMSON V1.20-0	1068569B
<b>IR002</b>	IC-ROM THOMSON V1.30-0	1071974B
<b>IR002</b>	MX27C8000MC-10 V1.00-0	25463740
<b>IR004</b>	CXK581000AM-70LL FLAT	10331960
<b>IR005</b>	M24C16MN6 FLAT	25348520
<b>IR006</b>	TCE2ACU FLAT	10314670
<b>IR007</b>	74LS00 FLAT	10487230
<b>IU304,IV520</b>	LM358D FLAT	25335740
<b>IU308</b>	DMUO-UP FLAT	10325580
<b>IU309</b>	SAA4956TJ FLAT	10645970
<b>IU390</b>	LE33CD FLAT	10670590
<b>IV100</b>	TDA9178	10648660
<b>IV200</b>	TDA9330H FLAT	10648670
<b>ZL221,251</b>	MP125	△ 10469180

<b>ZL231</b>	MP40	△ 10469170
<b>ZP009</b>	MP315	△ 10575090
<b>ZR001,002</b>	MP63	△ 10472270
<b>ZR003,004</b>	MP32	△ 25405650
<b>TA130,145,</b>	BCR141 SMD	16006890
<b>TI003,006,</b>		
<b>TR013,030,060</b>		
<b>TB001,TL311</b>	BF422	16003090
<b>TF041,TL312,</b>	BC556B	16001020
<b>TP173,179</b>		
<b>TG001</b>	BF199	16002950
<b>TG002</b>	BF370	25420830
<b>TG006</b>	BD140-16	25425020
<b>TG007</b>	BD139-16	16001760
<b>TG011,TL003,</b>	BC546B	45001866
<b>TP026,080,115,</b>		
<b>151,152,158,</b>		
<b>160,161,184,</b>		
<b>185,197,221,</b>		
<b>TV513</b>		
<b>TI010,030,</b>	BC846B SMD	16006260
<b>TR062,120,</b>		
<b>TT080,TU321,</b>		
<b>322,TV008,300,</b>		
<b>310,320,TX110,</b>		
<b>111,112,116,</b>		
<b>131,231,251,</b>		
<b>252,256,257,</b>		
<b>307,327,500,</b>		
<b>503,605,623,</b>		
<b>643</b>		
<b>TL004</b>	MPSW01A	70436520
<b>TL005</b>	MPS750	16001340
<b>TL010</b>	2SC5588	25576370
<b>TL029</b>	STP10NB20FP	25414550
<b>TP020</b>	STH13NB60FI	25381050
<b>TP057</b>	BC337-40	45001466
<b>TP150</b>	STP22NF03L (TO220)	2534195A

<b>TR015,061,</b>	BC856B SMD	16006310
<b>TT050,060,070,</b>		
<b>TU300,304,308,</b>		
<b>330,TV006,011,</b>		
<b>031,051,286,</b>		
<b>TX115,235,305,</b>		
<b>309,325,329,</b>		
<b>600,607,620,</b>		
<b>627,640,647</b>		
<b>TR020,TV521,</b>	DTC113ZK SMD	10550750
<b>522,526</b>		
<b>TU303,305,307</b>	BF660 SMD	16005830
<b>TU306</b>	BF799 SMD	35031670
<b>TV277</b>	BC327-40	16000450
<b>TX109,209</b>	BCR191 SMD	16006910
<b>DA090,092,</b>	BAV103 SMD	10155030
<b>DV271,276,</b>		
<b>DX107,207,230</b>		
<b>DA110</b>	LL42 SMD	16012530
<b>DA130,145,</b>	LL4148 SMD	16012450
<b>DH030,DR030,</b>		
<b>113,DU386,</b>		
<b>DV286,520,521,</b>		
<b>523,524,529,</b>		
<b>530,531,DX253,</b>		
<b>522,527</b>		
<b>DB004</b>	1N4004	44009009
<b>DB006,030,031,</b>	BAV21	44044407
<b>050,051,070,</b>		
<b>071,DL043,305,</b>		
<b>DP023</b>		
<b>DF011</b>	BZW04-58	10368210
<b>DF031,033,</b>	RGP10G	10459090
<b>DL302,303,</b>		
<b>DP061,220</b>		

**R : RECYCLED PART**  
**: PIECE RECYCLEE**  
**: AUSTAUSCHTEILE**  
**: RICAMBIO RICICLATO**  
**: MODULO REPROCESADO**

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**VERSION 1 03 / 2002 35191580**  
**VERSION 2 11 / 2002**



DG001,002,003,004,DL001,073,DP024,054,055,057,064,069,115,158,160,161,170,183,188,193,194,196,197,221,230	1N4148	44009209
DG026	BZX55C6V8	50890650
DH010	ZMM33 SMD	10376460
DI006	BA782S SMD	20542050
DL012,012	RGP15G	10272800
DL028,222,252	1N4001	16008160
DL029	RGP02-20	10472330
DL030	DTV32F-1500	10452490
DL032	STTA806DI	25422190
DL034,036	EGP10D	20953640
DL201,DP112	MUR1100E	10360280
DL221,251,DP008	FUF5404	20150190
DL221,251	FUF5402	10458530
DL231,DP020,051,113	FUF4005/MUR160	16009580
DL301	BZX85C18	50890010
DP001,002,003,004,006	GP30M	10455410
DP021	RGP10M	10455320
DP053	BZX55B15/ZPD15 2%	80444020
DP110	BYT08PI-1000	25442210
DP120,140	S410D	10527250
DP130,135	MUR420	16009630
DP150	BYW29-150	16009140
DP152	ZPD10 2%	80444160
DR031	ZMM5,1 SMD	70446740
DU301,305,309	BB729S SMD	20265900
DU303,304	BA592 SMD	16012160
DV006	ZMM2,7 SMD	16030100
DV270	ZMM3,9 SMD	16030210
DX101,103,105,201,203,205	ZMM6,8 SMD	70439940
DX250	BZX84B8V2 SMD	25385640
GE101	TLUV5300 LED	11137650



FI007	OFWK9650M FOS	10545440
FI025	OFWK3953M FOS	20687810
QA001	18M432HZ	10334670
QC020	4M433619HZ	10397980
QC021	3M579545HZ	10087720
QI033	5M74HZ	20338170
QR001	4M0HZ	10254300
QV400	12M0HZ	25418130



FI001	31M9HZ	10552630
FI021	40M4HZ	20300950
FI028	77M8HZ	10559760
LL029	118UH	10659760
LL034		10153270
LP112		13080320
LU315	2U7F	25441650
LU318	1U44H	25441620
LU331	1U0H	25441610



PP180	1K0 OHM	70434550
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RA051,080,120,121	4R7 OHM 5% 0,35W	△ 10226310
RB001,004	1K5 OHM 5% 0,50W	10121880
RB031,051,071	560R0 OHM 10% 0,50W	10257590
RB032,052,072,RE102,RP181	100R0 OHM 5% 0,25W	30943330
RF003,006	1K3 OHM 1% 0,40W	15012810
RF008	1R5 OHM 1% 0,70W	10451140
RF011,012	1R0 OHM 1% 0,70W	10254220
RG026,027	3K3 OHM 5% 3W	30941170
RG030	22R0 OHM 5% 0,25W	△ 35031220
RK101	453R0 OHM 1% 0,250W	15018140
RK102	681R0 OHM 1% 0,25W	15020310
RK103	1K5 OHM 1% 0,25W	80437630
RK104	3K32 OHM 1% 0,25W	15017270
RL015	5R6 OHM 5% 0,30W	△ 41098509
RL021,RL025	1R82 OHM 1% 0,70W	10451420
RL022,RP228	1K0 OHM 1% 0,25W	15012570
RL023	3M9 OHM 2% 0,40W	13057750
RL024	100K0 OHM 1% 0,25W	15010160
RL027	2K2 OHM 5% 0,50W	△ 10239310
RL037	330R0 OHM 10% 0,50W	14050190
RL044	562K0 OHM 1% 0,25W	90572070
RL221,251	0R27 OHM 5% 2,50W	10263600
RL231	4R7 OHM 5% 2,5W	10471330
RL303	33K2 OHM 1% 0,25W	15016530
RL308	17K4 OHM 1% 0,25W	15012140
RL310	46K4 OHM 1% 0,70W	10403710
RL311	2K21 OHM 1% 0,25W	15015480
RP004	2R7 OHM 5% 4,50W	10379110
RP015	18R0 OHM 220V PTC	△ 41398800
RP020	100R0 OHM 5% 0,75W	△ 10230030
RP027	3K9 OHM +5% 140MI0W	15008110
RP027,179	8K25 OHM 1% 0,25W	15021830
RP049	33R0 OHM 5% 2W	50888890
RP050	10M0 OHM 5% 0,70W	△ 20564520
RP051	100R0 OHM 5% 4,50W	10379830
RP052	0R1 OHM 5% 2,50W	△ 10288160
RP090	22K1 OHM 1% 0,25W	60442350
RP112	1K2 OHM 5% 2W	10134060
RP166	47K 5% 0,140W	15008400
RP180	205K0 OHM 1% 0,40W	15013970
RP227	2K26 OHM 1% 0,25W	15015500
RV008	330R0 OHM +5% 62MI5W	10134870



CB001	10N0F 3K0V	14036450
CB004,CL043	100N0F 20% 250V	13072860
CL028	100P0F 20% 1K0V	14035280
CL030	1N9F 2.5% 2K0V	10532420
CL031	10N0F 2,5% 2KV	10734180
CL032	27N0F 5% 630V	10679680
CL034	12N0F 2% 400V	10672180
CL035	350N0F 5% 400V	10647350
CL038,039	27N0F 5% 250V	50895120
CL201,221,231,251	330P0F 20% 1K0V	14035270
CL301	10N0F 5% 400V	10588870
CP001,002	100N0F 20% 275V	△ 10331520
CP003,004,005	4N7F 1K0V	10058740
CP006	470N0F 10% 400V	10469630
CP007	560N0F 5% 250V	10376360
CP008,051,121,131,136,141	470P0F 10% 2K0V	10099390
CP010	390U0F 20% 400V	25444380
CP015	68N0F 20% 250V	10256210
CP018	330NF 10% 63V	13076090
CP020,020,111	470P0F 10% 2K0V	25392030
CP021	1N0F 5% 400V	13055520
CP022	220P0F 10% 1K0V	25460410
CP027	22N0F +10% 63.0V	13078160
CP027	10NF 2.5% 63V	13074070
CP030	4N7F +10% 100.0V	70427740
CP049	1N5F 20% 400V	△ 10442770
CP050	150P0F 20% 400V	△ 20738090
CP052	2N2F 10% 1K0V	13090980
CP112,112	1N5F 10% 1K0V	43402900
CR012,072,074,077,CU357,378,379,385	1U0F 10% 16V SMD	15413370
CU324,342	10P0F +0P5F -0P5F 50V	20548230
CU337	22N0F 10% 25V	20947360
CU341	39P0F 5% 50V	20719460
CU343	1N0F 10% 50V	10138550
CU344,345	180P0F 5% 50V	20779170



LL001		10778220
LL008	DSTFBT 1372.0097	△ 10775830
LL037		△ 10518230
LP001		△ 10203560
LP006	600U0H	10660260
LP008	35U0H	10651740
LP020	STAND-BY	△ 25425970
LP050	SMT7LZ	△ 10643540
LP070	DRIVER	△ 60412091

**OTHER PARTS  
AUTRES PIECES  
SONSTIGE TEILE  
ALTRE PARTI  
OTRAS PIEZAS**

<b>BA005</b>	CONNECTOR BA005 CONNECTEUR BA005 STECKVERBINDUNG BA005 CONNETTORE BA005 CONECTOR BA005	11095570
<b>BA007</b>	CONNECTOR BA007 CONNECTEUR BA007 STECKVERBINDUNG BA007 CONNETTORE BA007 CONECTOR BA007	90581950
<b>BA008</b>	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	90541842
<b>BA009</b>	CONNECTOR BA009 CONNECTEUR BA009 STECKVERBINDUNG BA009 CONNETTORE BA009 CONECTOR BA009	90581940
<b>BA010</b>	CONNECTOR BA010 CONNECTEUR BA010 STECKVERBINDUNG BA010 CONNETTORE BA010 CONECTOR BA010	70438840
<b>BA012</b>	CONNECTOR BA012 CONNECTEUR BA012 STECKVERBINDUNG BA012 CONNETTORE BA012 CONECTOR BA012	30959990
<b>BB010</b>	CATHODE RAY TUBE SOCKET $\Delta$ SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	80298800
<b>BJ010</b>	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	10037440
<b>BJ011</b>	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS	20392900
<b>BL111, BP005</b>	CABLE FLAT 21 PINS 70MM CABLE NAPPE 21 VOIES 70MM KABEL FLACH 21 PINS 70MM CAVO FALDO 21 SPINOTTI 70MM CABLE 21 11 PUNTOS 70MM	25413180
<b>BQ012</b>	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK	10539510
<b>BR001</b>	CONNECTOR BR001 CONNECTEUR BR001 STECKVERBINDUNG BR001 CONNETTORE BR001 CONECTOR BR001	20459464
<b>BV300</b>	CONNECTOR BV300 CONNECTEUR BV300 STECKVERBINDUNG BV300 CONNETTORE BV300 CONECTOR BV300	80448080
<b>BX004</b>	CONNECTOR BX004 CONNECTEUR BX004 STECKVERBINDUNG BX004 CONNETTORE BX004 CONECTOR BX004	20487680

<b>BX100,200,300</b>	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONECTOR	25421870
<b>CH200</b>	ON/OFF SWITCH MSB2000 $\Delta$ CONTACTEUR MARCHE/ARRET MSB2000 EIN-AUS SCHALTER MSB2000 CONTATTORE ACCESO/ SPENTO MSB2000 CONTACTOR MARCHA/PARADA MSB2000	10276500
<b>CJ020</b>	CABLE WITH CONNECTOR 10 PINS 380MM CABLE AVEC CONNECTEUR 10 VOIES 380MM KABEL MIT VERBINDER 10 PINS 380MM CAVO CON CONNETTORE 10 SPINOTTI 380MM CABLE CON CONECTOR 10 PUNTOS 380MM	25434810
<b>CJ030</b>	CABLE WITH CONNECTOR 6 PINS 500MM CABLE AVEC CONNECTEUR 6 VOIES 500MM KABEL MIT VERBINDER 6 PINS 500MM CAVO CON CONNETTORE 6 SPINOTTI 500MM CABLE CON CONECTOR 6 PUNTOS 500MM	25460570
<b>CJ035</b>	CABLE WITH CONNECTOR 3 PINS 580MM CABLE AVEC CONNECTEUR 3 VOIES 580MM KABEL MIT VERBINDER 3 PINS 580MM CAVO CON CONNETTORE 3 SPINOTTI 580MM CABLE CON CONECTOR 3 PUNTOS 580MM	30020170
<b>CJ050</b>	CABLE WITH CONNECTOR 7 PINS 500MM WHITE CABLE AVEC CONNECTEUR 7 VOIES 500MM BLANC KABEL MIT VERBINDER 7 PINS 500MM WEIB CAVO CON CONNETTORE 7 SPINOTTI 500MM BIANCO CABLE CON CONECTOR 7 PUNTOS 500MM BLANCO	25018710
<b>CJ100</b>	THT CABLE $\Delta$ CABLE THT KABEL THT CAVO THT CABLE THT	10664300
<b>CJ105</b>	CABLE 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED KABEL 460MM 20KV HT STRIPPED CAVO 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED	10369650
<b>CJ130</b>	CABLE WITH CONNECTOR 6 PINS 740MM RED CABLE AVEC CONNECTEUR 6 VOIES 740MM ROUG KABEL MIT VERBINDER 6 PINS 740MM ROT CAVO CON CONNETTORE 6 SPINOTTI 740MM ROS CABLE CON CONECTOR 6 PUNTOS 740MM ROJO	25485670

<b>FP001</b>	2A5T 250V TIME-LAG FUSE $\Delta$ 2A5T 250V FUSIBLE TEMPORISE 2A5T 250V SICHERUNG 2A5T 250V FUSIBILE TEMPORIZZATO 2A5T 250V FUSIBLE TEMPORIZADO	10246750
<b>NH001</b>	CTT5010 UHF/VHF TUNER CTT5010 TETE UHF/VHF CTT5010 UHF/VHF TUNER CTT5010 TUNER UHF/VHF CTT5010 SINTONIZADOR UHF/VHF	20812280
<b>SK101,102,103,104</b>	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUPTORE MICROCONTACTOR	30011100
<b>SP015</b>	RELAY 12V RELAIS 12V RELAIS 12V RELE 12V RELE 12V	$\Delta$ 90294100

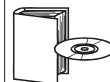
**EQUIPMENT/PRESENTATION  
EQUIPEMENT/PRESENTATION  
AUSSTATTUNG/GEHAEUSE  
PARTI VARIE  
EQUIPO/PRESENTACION**

FRONT PANEL SI04TH	25582260
FACADE SI04TH	
FRONTPLATTE SI04TH	
PANNELLO FRONTALE SI04TH	
PANEL FRONTAL SI04TH	
REAR PANEL GY37TH	△ 25582240
DOS GY37TH	
RUECKWAND GY37TH	
PANNELLO POSTERIORE GY37TH	
TAPA POSTERIOR GY37TH	
JACK PANEL GY37TH	△ 25622740
TABEAU DE PRISES GY37TH	
JACK FRONTPLATTE GY37TH	
QUADRO DI PRESA JACK GY37TH	
TABLERO DE TOMA JACK GY37TH	
LOUDSPEAKER GRID BOOMER GY37TH	25539940
GRILLE HAUT PARLEUR GRAVES GY37TH	
LAUTSPRECHER GITTER TIEFTOENER GY37TH	
GRIGLIA ALTOPARLANTE SUPERIOR GY37TH	
REJILLA ALTAVOZ GRAVES GY37TH	
FLAT RIGHT 100HZ SI04TH	25582450
VOLET DROIT 100HZ SI04TH	
KLAPPE RECHTS 100HZ SI04TH	
SPORTELLI DESTRO 100HZ SI04TH	
TAPA DERECHA 100HZ SI04TH	
FLAP LEFT SI04TH	25582460
VOLET GAUCHE SI04TH	
KLAPPE LINKS SI04TH	
SPORTELLI SINISTRO SI04TH	
TAPA IZQUIERDO SI04TH	
SPRING CATCH, PLASTIC	65040100
LOQUETEAU PLASTIQUE	
DRUCKSCHNAPPER	
CHIUSURA DI PLASTICA	
PESTILLO PLASTICO	
LOGO THOMSON	25481300
LOGO THOMSON	
SCHRIFTZUG THOMSON	
MARCHIO THOMSON	
LOGOTIPO THOMSON	
CHASSIS SUPPORT	25413970
SUPPORT CHASSIS	
CHASSIS HALTER	
SUPPORTO CHASSIS	
SOPORTE CHASSIS	
CHASSIS SLIDE SECURING	25413960
GLISSIERE FIXATION CHASSIS	
SCHIEBER BEFESTIGUNG CHASSIS	
SVIVOLO DI FISSAGGIO CHASSIS	
CORREDERA DE SUJECION CHASIS	
LOUSPEAKER GUIDE	25464180
CORNET ACOUSTIQUE	
FUEHRUNGSSCHIENE LAUTSPRECHER	
GUIDA ALTOPARLANTE	
GUIA ALTAVOZ	
8R OHM 15W LOUDSPEAKER 60X125	10467060
8R OHM 15W HAUT PARLEUR 60X125	
8R OHM 15W LAUTSPRECHER 60X125	
8R OHM 15W ALTOPARLANTE 60X125	
8R OHM 15W ALTAVOZ 60X125	

8R OHM 15W LOUDSPEAKER 27X42	10317160
8R OHM 15W HAUT PARLEUR 27X42	
8R OHM 15W LAUTSPRECHER 27X42	
8R OHM 15W ALTOPARLANTE 27X42	
8R OHM 15W ALTAVOZ 27X42	
SUPPORT CU AND BUTTON SI04TH	25582270
SUPPORT CU ET TOUCHES SI04TH	
HALTER CU UND TASTE SI04TH	
SUPPORTO CU E TASTO SI04TH	
SOPORTE CU Y TECLA SI04TH	
ON/OFF SWITCH SUPPORT	25315270
SUPPORT CONTACTEUR MARCHE/ARRET	
HALTER EIN-AUS SCHALTER	
SUPPORTO CONTATTORE ACCESSO/SPENTO	
SOPORTE CONTACTOR MARCHA/PARADA	
ON/OFF BUTTON SI04TH	25582310
TOUCHE MARCHE/ARRET SI04TH	
EIN-AUS TASTE SI04TH	
TASTA ACCESSO/SPENTO SI04TH	
TECLA MARCHA/PARADA SI04TH	
POWER SUPPLY LEAD	△ 10260880
CORDON D'ALIMENTATION	
NETZKABEL	
CAVO DI ALIMENTAZIONE	
CABLE DE ALIMENTACION	
CORD STOPPER	25071420
ATTACHE CORDON SECTEUR	
ZUGENTLASTUNG	
BRIDA CORDONE DI ALIMENTAZIONE	
SUJECION CABLE DE ALIMENTACION	
A68QCP893X007 CATHODE RAY TUBE	△ 10774740
A68QCP893X007 TUBE CATHODIQUE	
A68QCP893X007 FARBBILDROEHRE	
A68QCP893X007 TUBO CATODICO	
A68QCP893X007 T.R.C	
DEGAUSSING COIL 1077MM	△ 10745760
BOBINE DE DEMAGNETISATION 1077MM	
ENTMAGNETISIERUNGSSPULE 1077MM	
BOBINA DI SMAGNETIZZAZIONE 1077MM	
BOBINA DE DESMANTACION 1077MM	
RCT100 REMOTE CONTROL	10546340
RCT100 TELECOMMANDE	
RCT100 FERNBEDIENUNG	
RCT100 TELECOMANDO	
RCT100 TELEMANDO	
FOLDING BOX	25418560
EMBALLAGE CARTON	
KARTON	
IMBALLAGGIO CARTONE	
EMBALAJE CARTON	
FITTING UPPER	25414600
CALE SUPERIEURE	
POLSTER OBEN	
DISTANZIATORE SUPERIORE	
CALZO SUPERIOR	
FITTING DOWNER	25414590
CALE INFERIEURE	
POLSTER UNTEN	
DISTANZIATORE INFERIORE	
CALZO INFERIOR	

**MAINTENANCE TOOLS  
MAINTENANCE  
WERKZEUG FUER DAS GERAET  
UTENSILI DI MANUTENZIONE  
MANTENIMIENTO**

ICC20 POWER SUPPLY REPAIR KIT	35134130
ICC20 KIT DE MAINTENANCE ALIMENTATION	
ICC20 REPARATURSET NETZTEIL TV	
ICC20 KIT PER RIPARARE L'ALIMENTAZIONE	
ICC20 KIT DE REPARACION DE ALIMENTACION	
EXTENSION CABLE 21 PINS 350MM	35120540
CABLE PROLONGATEUR 21 VOIES 350MM	
VERLAENGERUNGSKABEL 21 PINS 350MM	
CAVO DI PROLUNGA 21 SPINOTTI 350MM	
CABLE PROLONGADOR 21 PINS 350MM	



29DF400G PARTS LIST	35191580
29DF400G LISTE DE PIECES DETACHEES	
29DF400G ERSATZTEILLISTE	
29DF400G LISTA PARTI DI RICAMBIO	
29DF400G LISTA DE PIEZAS DE REPUESTO	
CDROM ICC20 VERSION 2	35183760
CDROM ICC20 VERSION 2	
CDROM ICC20 VERSION 2	
CDROM ICC20 VERSION 2	
CDROM ICC20 VERSION 2	
ICC20 SERVICE MANUAL SUPPLEMENT	35180550
ICC20 DOC TECHNIQUE ADDITIF	
ICC20 SECHNISCHE DOKUMENTATION ZUSAT	
ICC20 DOCUMENTAZIONE ADDITIVO	
ICC20 DOCUMENTACION ADITIVO	
ICC20 SM PACK	35149810
ICC20 SM PACK	
ICC20 SM PACK	
ICC20 SM PACK	
ICC20 SM PACK	
ICC20 SERVICE MANUAL EUROPE	35118540
ICC20 DOC TECHNIQUE EUROPE	
ICC20 TECHNISCHE DOKUMENTATION EUROPE	
ICC20 DOCUMENTAZIONE TECNICA EUROPE	
ICC20 DOCUMENTACION TECNICA EUROPE	
C20 UM 15 LANGUAGE	25490140
C20 NU 15 LANGUES	
C20 BA 15 SPRACHE	
C20 IU 15 LINGUA	
C20 IU 15 LENGUA	

**OPTION  
OPTION  
OPTION  
OPZIONE  
OPCION**

STTX290I TV STAND	35147250
STTX290I MUEBLE TV	
STTX290I TV-SCHRANK	
STTX290I MOBILE TV	
STTX290I MUEBLE TV	

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**PARTS LIST**  
**LISTE PIECES DETACHEES**  
**ERSATZTEILLISTE**  
**LISTA PARTI DI RICAMBIO**  
**LISTA DE PIEZAS DE REPUESTO**

**THOMSON**  
**28EX42E**  
**Chassis ICC20**

**MODULES**

**PSB C20PB20 B\*BP\*\*\*\*0\* R 10659450**  
**SSB C20SB20 B5\*\*02R001 R 10638090**



<b>GK101</b>	TSOP1333	25358570
<b>IB001</b>	TDA6108JF	10616240
<b>IF001</b>	TDA8177F	10352880
<b>IP020</b>	VIPER20DIP	25408950
<b>IP050</b>	TEA2262	10495720
<b>IP070</b>	TLP621 GR(D4-LF2 T)	△ 20827900
<b>IP170</b>	LM393/NJM2903D	46069900
<b>IP220</b>	TDA8139	10044580
<b>ZL221,251</b>	MP125	△ 10469180
<b>ZL231</b>	MP40	△ 10469170
<b>ZP009</b>	MP315	△ 10575090



<b>TB001,TL311</b>	BF422	16003090
<b>TF041,TL312,TP173,179</b>	BC556B	16001020
<b>TL003,TP026,080,115,151,152,158,160,161,184,185,197,221</b>	BC546B	45001866
<b>TL004</b>	MPSW01A	70436520
<b>TL005</b>	MPS750	16001340
<b>TL010</b>	ON4977/BU2525AX	10461310
<b>TL029</b>	STP10NB20FP	25414550
<b>TP020</b>	STH13NB60FI	25381050
<b>TP057</b>	BC337-40	45001466
<b>TP150</b>	STP22NE03L (T0220)	25341950
<b>TP21</b>	BF423	16003110



<b>DB004</b>	1N4004	44009009
<b>DB006,030,031,050,051,070,071,DL043,305,DP023</b>	BAV21	44044407
<b>DF011</b>	BZW04-58	10368210
<b>DF031,033,DL302,303,DP061,220</b>	RGPI0G	10459090
<b>DL001,073,DP024,054,055,057,064,069,115,158,160,161,170,183,188,193,194,196,197,221,230</b>	1N4148	44009209
<b>DL028,222,252</b>	1N4001	16008160
<b>DL029</b>	RGPI02-20	10472330
<b>DL030</b>	DTV32F-1500	10452490
<b>DL032</b>	STTA806DI	25422190
<b>DL201,DP112</b>	MUR1100E	10360280
<b>DL221,251</b>	FUF5402	10458530
<b>DL231,DP020,051,113</b>	FUF4005/MUR160	16009580
<b>DL301</b>	BZX85C18	50890010
<b>DP001,002,003,004</b>	GP20M 1K0V 2.0A	25365510
<b>DP006</b>	GP30M	10455410
<b>DP008</b>	FUF5404	20150190
<b>DP021</b>	RGPI0M	10455320
<b>DP053</b>	BZX55B15/ZPD15 2%	80444020
<b>DP110</b>	BYT08PI-1000	10670920
<b>DP110</b>	RGPI50M	10298160
<b>DP120,130,135</b>	RGPI5G	10272800
<b>DP140</b>	S410D	10527250
<b>DP150</b>	BYW29-150	16009140
<b>DP152</b>	ZPD10 2%	80444160
<b>GE101</b>	TLUV5300 LED	11137650



<b>LF020</b>	22UOH 10% 1,6A	10470180
<b>LL029</b>	118UH	10659760



<b>PP180</b>	1K0 OHM	70434550
<b>RB001,004</b>	1K5 OHM 5% 0,50W	10121880
<b>RB031,051,071</b>	560R0 OHM 10% 0,50W	10257590
<b>RB032,052,072,RE102,RP181</b>	100R0 OHM 5% 0,25W	30943330
<b>RF003,006</b>	1K3 OHM 1% 0,40W	15012810
<b>RF008,RL021,025</b>	1R5 OHM 1% 0,70W	10451140
<b>RF011,012</b>	1R0 OHM 1% 0,70W	10254220
<b>RG026,027</b>	3K3 OHM 5% 3W	30941170
<b>RK101</b>	453R0 OHM 1% 0,250W	15018140
<b>RK102</b>	681R0 OHM 1% 0,25W	15020310
<b>RK103</b>	1K5 OHM 1% 0,25W	80437630
<b>RK104</b>	3K32 OHM 1% 0,25W	15017270
<b>RL015</b>	6R8 OHM 5% 0,25W	△ 41023309
<b>RL022,RP228</b>	1K0 OHM 1% 0,25W	15012570
<b>RL023</b>	3M3 OHM 2% 0,40W	13052690
<b>RL024</b>	100K0 OHM 1% 0,25W	15010160
<b>RL027</b>	2K2 OHM 5% 0,50W	△ 10239310
<b>RL037</b>	330R0 OHM 10% 0,50W	14050190
<b>RL044</b>	402K0 OHM 1% 0,25W	15017710
<b>RL221,251</b>	0R27 OHM 5% 2,50W	10263600
<b>RL231</b>	4R7 OHM 5% 2,5W	10471330
<b>RL303</b>	33K2 OHM 1% 0,25W	15016530
<b>RL308</b>	45K3 OHM 1% 0,25W	15018160
<b>RL310</b>	46K4 OHM 1% 0,70W	10403710
<b>RL311</b>	2K21 OHM 1% 0,25W	15015480
<b>RP004</b>	2R7 OHM 5% 4,50W	10379110
<b>RP015</b>	18R0 OHM 220V PTC	△ 41398800
<b>RP020</b>	100R0 OHM 5% 0,75W	△ 10230030
<b>RP049</b>	33R0 OHM 5% 2W	50888890
<b>RP050</b>	10M0 OHM 5% 0,70W	△ 20564520
<b>RP051</b>	100R0 OHM 5% 4,50W	10379830
<b>RP052</b>	0R1 OHM 5% 2,50W	△ 10288160
<b>RP090</b>	16K5 OHM 1% 0,25W	15011960
<b>RP179</b>	8K25 OHM 1% 0,25W	15021830
<b>RP180</b>	205K0 OHM 1% 0,40W	15013970
<b>RP227</b>	2K26 OHM 1% 0,25W	15015500

**R : RECYCLED PART**  
**: PIECE RECYCLEE**  
**: AUSTAUSCHTEILE**  
**: RICAMBIO RICICLATO**  
**: MODULO REPROCESADO**

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**04 / 2001** **35153220**  
**REV. N° 0 00 / 00** **00000000**  
**1/3**



CB001	10NOF 3KOV	14036450
CB004,CL043	100NOF 20% 250V	13072860
CL030	680POF 2,5% 2KOV	10662260
CL031	11N6F 2,5% 2KOV	40406501
CL032	27NOF 5% 400V	10263540
CL035	410NOF 5% 400V	10180780
CL038,039	12NOF 2% 400V	10672180
CL201,221,231,251	330POF 20% 1KOV	14035270
CL301	10NOF 5% 400V	10588870
CP001,002	100NOF 20% 275V	△ 10331520
CP003,004,005	4N7F 1KOV	10058740
CP006	470NOF 10% 400V	10469630
CP007	560NOF 5% 250V	10376360
CP008,051,121,131,136,141	470POF 10% 2KOV	10099390
CP010	220UOF 20% 400V	10660180
CP015	68NOF 20% 250V	10256210
CP020,022	220POF 10% 1KOV	25460410
CP021	1NOF 5% 400V	13055520
CP027	10NOF 10% 100V	70427750
CP049	1N5F 20% 400V	△ 10442770
CP050	150POF 20% 400V	△ 20738090
CP052,112	2N2F 10% 1KOV	13090980
CP111	470POF 10% 2KOV	25392030



LL001		10669660
LL008	DSTFBT 1372.0042	△ 10649040
LL037		△ 10518230
LP001		△ 10203560
LP006,008	35UOH	10651740
LP020	STAND-BY	△ 25425970
LP050	SMT7	△ 10670390
LP070	DRIVER	△ 60412091

## OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS

BB010	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	△ 80298800
BJ010	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	10037440
BJ011	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS	20392900
BQ012	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK	10539510

CH200	ON/OFF SWITCH MSB2000 CONTACTEUR MARCHE/ARRET MSB2000 EIN-AUS SCHALTER MSB2000 CONTATTORE ACCESO/ SPENTO MSB2000 CONTACTOR MARCHA/PARADA MSB2000	△ 10276500
CJ015	CABLE WITH CONNECTOR 9 PINS 380MM CABLE AVEC CONNECTEUR 9 VOIES 380MM KABEL MIT VERBINDER 9 PINS 380MM CAVO CON CONNETTORE 9 SPINOTTI 380MM CABLE CON CONNECTOR 9 PUNTOS 380MM	10512510
CJ020	CABLE WITH CONNECTOR 10 PINS 380MM CABLE AVEC CONNECTEUR 10 VOIES 380MM KABEL MIT VERBINDER 10 PINS 380MM CAVO CON CONNETTORE 10 SPINOTTI 380MM CABLE CON CONNECTOR 10 PUNTOS 380MM	25434810
CJ030	CABLE WITH CONNECTOR 6 PINS 500MM CABLE AVEC CONNECTEUR 6 VOIES 500MM KABEL MIT VERBINDER 6 PINS 500MM CAVO CON CONNETTORE 6 SPINOTTI 500MM CABLE CON CONNECTOR 6 PUNTOS 500MM	25460570
CJ035	CABLE WITH CONNECTOR 3 PINS 580MM CABLE AVEC CONNECTEUR 3 VOIES 580MM KABEL MIT VERBINDER 3 PINS 580MM CAVO CON CONNETTORE 3 SPINOTTI 580MM CABLE CON CONNECTOR 3 PUNTOS 580MM	30020170
CJ050	CABLE WITH CONNECTOR 7 PINS 500MM CABLE AVEC CONNECTEUR 7 VOIES 500MM KABEL MIT VERBINDER 7 PINS 500MM CAVO CON CONNETTORE 7 SPINOTTI 500MM CABLE CON CONNECTOR 7 PUNTOS 500MM	25018710
CJ100	THT CABLE CABLE THT KABEL THT CAVO THT CABLE THT	△ 10664300
CJ105	CABLE 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED KABEL 460MM 20KV HT STRIPPED CAVO 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED	△ 10369650
FP001	2A5T 250V TIME-LAG FUSE 2A5T 250V FUSIBLE TEMPORISE 2A5T 250V SICHERUNG 2A5T 250V FUSIBILE TEMPORIZZATO 2A5T 250V FUSIBLE TEMPORIZADO	△ 10246750

SK101,102,103,104	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	30011100
SP015	RELAY 12V RELAIS 12V RELAIS 12V RELE 12V RELE 12V	△ 90294100

## EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAUSE PARTI VARIE EQUIPO/PRESENTACION

DEGAUSSING COIL BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETIZZAZIONE BOBINA DE DESMANTACION	△ 47320183
FRONT PANEL FACADE FRONTPLATTE PANNELLO FRONTALE PANEL FRONTAL	25415530
JACK PANEL GY20TH TABLEAU DE PRISES GY20TH JACK FRONTPLATTE GY20TH QUADRO DI PRESA JACK GY20TH TABLERO DE TOMA JACK GY20TH	△ 25440650
REAR PANEL DOS RUECKWAND PANNELLO POSTERIORE TAPA POSTERIOR	△ 25459780
INFRARED WINDOW GLACE INFRAROUGE INFRAROTFENSTER VETRO INFRAROSSO CRISTAL INFRARROJO	25461500
FLAT 100HZ VOLET 100HZ KLAPPE 100HZ SPORTELLO 100HZ TAPA 100HZ	25462870
SPRING CATCH, PLASTIC LOQUETEAU PLASTIQUE DRUCKSCHNAPPER CHIUSURA DI PLASTICA PESTILLO PLASTICO	65040100
LOGO THOMSON LOGO THOMSON SCHRIFTZUG THOMSON MARCHIO THOMSON LOGOTIPO THOMSON	25367520
CHASSIS SUPPORT SUPPORT CHASSIS CHASSIS HALTER SUPPORTO CHASSIS SOPORTE CHASSIS	25413970
CHASSIS SLIDE SECURING GLISSIERE FIXATION CHASSIS SCHIEBER BEFESTIGUNG CHASSIS SVIVOLO DI FISSAGGIO CHASSIS CORREDERA DE SUJECION CHASIS	25413960
LOUSPEAKER GUIDE CORNET ACOUSTIQUE FUEHRUNGSSCHIENE LAUTSPRECHER GUIDA ALTOPARLANTE GUIA ALTAVOZ	25423150

8R OHM 15W LOUDSPEAKER 60X125	10467060
8R OHM 15W HAUT PARLEUR 60X125	
8R OHM 15W LAUTSPRECHER 60X125	
8R OHM 15W ALTOPARLANTE 60X125	
8R OHM 15W ALTAVOZ 60X125	
8R OHM 15W LOUDSPEAKER 27X42	10317160
8R OHM 15W HAUT PARLEUR 27X42	
8R OHM 15W LAUTSPRECHER 27X42	
8R OHM 15W ALTOPARLANTE 27X42	
8R OHM 15W ALTAVOZ 27X42	
ON/OFF BUTTON	25323140
TOUCHE MARCHE/ARRET	
EIN-AUS TASTE	
TASTO ACCESSO/SPENTO	
TECLA MARCHA/PARADA	
BUTTON ASSY	25386250
ENSEMBLE DE TOUCHES	
TASTENEINHEIT	
ASSIEME TASTI	
CONJUNTO DE TECLAS	
POWER SUPPLY LEAD	△ 25420360
CORDON D'ALIMENTATION	
NETZKABEL	
CAVO DI ALIMENTAZIONE	
CABLE DE ALIMENTACION	
CORD STOPPER	25071420
ATTACHE CORDON SECTEUR	
ZUGENTLASTUNG	
BRIDA CORDONE DI ALIMENTAZIONE	
SUJECION CABLE DE ALIMENTACION	
EXTENSION CABLE 21 PINS 350MM	35120540
CABLE PROLONGATEUR 21 VOIES 350MM	
VERLAENGERUNGSKABEL 21 PINS 350MM	
CAVO DI PROLUNGA 21 SPINOTTI 350MM	
CABLE PROLONGADOR 21 PINS 350MM	
A66EHJ13X12 CATHODE RAY TUBE	△ 10716870
A66EHJ13X12 TUBE CATHODIQUE	
A66EHJ13X12 FARBBIDROEHRE	
A66EHJ13X12 TUBO CATODICO	
A66EHJ13X12 T.R.C	
MB2100 REMOTE CONTROL	21107460
MB2100 REMOTE CONTROL	
MB2100 FERNBEDIENUNG	
MB2100 TELECOMANDO	
MB2100 TELEMANDO	
FOLDING BOX	25373550
EMBALLAGE CARTON	
KARTON	
IMBALLAGGIO CARTONE	
EMBALAJE CARTON	
FITTING UPPER	25408770
CALE SUPERIEURE	
POLSTER OBEN	
DISTANZIATORE SUPERIORE	
CALZO SUPERIOR	
FITTING DOWNER	25408760
CALE INFERIEURE	
POLSTER UNTEN	
DISTANZIATORE INFERIORE	
CALZO INFERIOR	

## MAINTENANCE TOOLS MAINTENANCE WERKZEUG FUER DAS GERAET UTENSILI DI MANUTENZIONE MANTENIMIENTO

ICC20 POWER SUPPLY REPAIR KIT 35134130  
ICC20 KIT DE MAINTENANCE ALIMENTATION  
ICC20 REPARATURSET NETZTEIL  
ICC20 KIT PER RIPARARE L'ALIMENTAZIONE  
ICC20 KIT DE REPARACION DE ALIMENTACION



28EX42E PARTS LIST 35153220  
28EX42E LISTE DE PIECES DETACHEES  
28EX42E ERSATZTEILLISTE  
28EX42E LISTA PARTI DI RICAMBIO  
28EX42E LISTA DE PIEZAS DE REPUESTO

ICC20 SERVICE MANUAL EUROPE 35118540  
ICC20 DOC TECHNIQUE EUROPE  
ICC20 TECHNISCHE DOKUMENTATION EUROPE  
ICC20 DOCUMENTAZIONE TECNICA EUROPE  
ICC20 DOCUMENTACION TECNICA EUROPE

CDROM ICC20 35128440  
CDROM ICC20  
CDROM ICC20  
CDROM ICC20  
CDROM ICC20

C20 15 LANGUAGE UM 25490140  
C20 15 LANGUES UM  
C20 15 SPRACHE UM  
C20 15 LINGUA UM  
C20 15 LENGUA UM

## OPTION OPTION OPTION OPZIONE OPCION

ST7040SB TV STAND 35151900  
ST7040SB MEUBLE TV  
ST7040SB TV-SCHRANK  
ST7040SB MOBILE TV  
ST7040SB MUEBLE TV

### 28EX42E

3/3

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**PARTS LIST  
LISTE PIECES DETACHEES  
ERSATZTEILLISTE  
LISTA PARTI DI RICAMBIO  
LISTA DE PIEZAS DE REPUESTO**

**SABA  
S7044C  
Chassis ICC20**

**MODULES**

**PSB C20PB20 B\*BP\*\*\*\*0\* R 10659450**  
**SSB C20SB20 B5\*\*08R001 R 10675290**



GK101	TSOP1333	25358570
IB001	TDA6108JF	10616240
IF001	TDA8177F	10352880
IP020	VIPER20DIP	25408950
IP050	TEA2262	10495720
IP070	TLP621 GR(D4-LF2 T)	△ 20827900
IP170	LM393/NJM2903D	46069900
IP220	TDA8139	10044580
ZL221,251	MP125	△ 10469180
ZL231	MP40	△ 10469170
ZP009	MP315	△ 10575090



TB001, TL311	BF422	16003090
TF041, TL312, TP173,179	BC556B	16001020
TL003, TP026, 080,115,151,152,158,160,161,184,185,197,221	BC546B	45001866
TL004	MPSW01A	70436520
TL005	MPS750	16001340
TL010	ON4977/BU2525AX	10461310
TL029	STP10NB20FP	25414550
TP020	STH13NB60FI	25381050
TP057	BC337-40	45001466
TP150	STP22NE03L (T0220)	25341950



DB004	1N4004	44009009
DB006,030,031,050,051,070,071,DL043,305,DP023	BAV21	44044407
DF011	BZW04-58	10368210
DF031,033,DL302,303,DP061,220	RGPI0G	10459090
DL001,073,DP024,054,055,057,064,069,115,158,160,161,170,183,188,193,194,196,197,221,230	1N4148	44009209
DL028,222,252	1N4001	16008160
DL029	RGPI02-20	10472330
DL030	DTV32F-1500	10452490
DL032	STTA806DI	25422190
DL201,DP112	MUR1100E	10360280
DL221,251	FUF5402	10458530
DL231,DP020,051,113	FUF4005/MUR160	16009580
DL301	BZX85C18	50890010
DP001,002,003,004	GP20M 1K0V 2.0A	25365510
DP006	GP30M	10455410
DP008	FUF5404	20150190
DP021	RGPI0M	10455320
DP053	BZX55B15/ZPD15 2%	80444020
DP110	BYT08PI-1000	10670920
DP110	RGPI50M	10298160
DP120,130,135	RGPI5G	10272800
DP140	S410D	10527250
DP150	BYW29-150	16009140
DP152	ZPD10 2%	80444160
GE101	TLUV5300 LED	11137650



LF020	22UOH 10% 1,6A	10470180
LL029	118UH	10659760



PP180	1K0 OHM	70434550
RB001,004	1K5 OHM 5% 0,50W	10121880
RB031,051,071	560R0 OHM 10% 0,50W	10257590
RB032,052,072,RE102,RP181	100R0 OHM 5% 0,25W	30943330
RF003,006	1K3 OHM 1% 0,40W	15012810
RF008,RL021,025	1R5 OHM 1% 0,70W	10451140
RF011,012	1R0 OHM 1% 0,70W	10254220
RG026,027	3K3 OHM 5% 3W	30941170
RK101	453R0 OHM 1% 0,250W	15018140
RK102	681R0 OHM 1% 0,25W	15020310
RK103	1K5 OHM 1% 0,25W	80437630
RK104	3K32 OHM 1% 0,25W	15017270
RL015	6R8 OHM 5% 0,25W	△ 41023309
RL022,RP228	1K0 OHM 1% 0,25W	15012570
RL023	3M3 OHM 2% 0,40W	13052690
RL024	100K0 OHM 1% 0,25W	15010160
RL027	2K2 OHM 5% 0,50W	△ 10239310
RL037	330R0 OHM 10% 0,50W	14050190
RL044	402K0 OHM 1% 0,25W	15017710
RL221,251	0R27 OHM 5% 2,50W	10263600
RL231	4R7 OHM 5% 2,5W	10471330
RL303	33K2 OHM 1% 0,25W	15016530
RL308	45K3 OHM 1% 0,25W	15018160
RL310	46K4 OHM 1% 0,70W	10403710
RL311	2K21 OHM 1% 0,25W	15015480
RP004	2R7 OHM 5% 4,50W	10379110
RP015	18R0 OHM 220V PTC	△ 41398800
RP020	100R0 OHM 5% 0,75W	△ 10230030
RP049	33R0 OHM 5% 2W	50888890
RP050	10M0 OHM 5% 0,70W	△ 20564520
RP051	100R0 OHM 5% 4,50W	10379830
RP052	0R1 OHM 5% 2,50W	△ 10288160
RP090	16K5 OHM 1% 0,25W	15011960
RP166	47K 5% 0.140W	15008400
RP179	8K25 OHM 1% 0,25W	15021830
RP180	205K0 OHM 1% 0,40W	15013970
RP227	2K26 OHM 1% 0,25W	15015500

R : RECYCLED PART  
: PIECE RECYCLEE  
: AUSTAUSCHTEILE  
: RICAMBIO RICICLATO  
: MODULO REPROCESADO

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VERSION 1 10 / 2001 35176720  
VERSION 2 00 / 0000



<b>CB001</b>	10NOF 3KOV	14036450
<b>CB004,CL043</b>	100NOF 20% 250V	13072860
<b>CL030</b>	680POF 2,5% 2KOV	10662260
<b>CL031</b>	11N6F 2,5% 2KOV	40406501
<b>CL032</b>	27NOF 5% 400V	10263540
<b>CL035</b>	41NOF 5% 400V	10180780
<b>CL038,039</b>	12NOF 2% 400V	10672180
<b>CL201,221,231,251</b>	330POF 20% 1KOV	14035270
<b>CL301</b>	10NOF 5% 400V	10588870
<b>CP001,002</b>	100NOF 20% 275V	△ 10331520
<b>CP003,004,005</b>	4N7F 1KOV	10058740
<b>CP006</b>	470NOF 10% 400V	10469630
<b>CP007</b>	560NOF 5% 250V	10376360
<b>CP008,051,121,131,136,141</b>	470POF 10% 2KOV	10099390
<b>CP010</b>	220UOF 20% 400V	10660180
<b>CP015</b>	68NOF 20% 250V	10256210
<b>CP020,022</b>	220POF 10% 1KOV	25460410
<b>CP021</b>	1NOF 5% 400V	13055520
<b>CP027</b>	10NOF 10% 100V	70427750
<b>CP027</b>	10NF 2.5% 63V	13074070
<b>CP049</b>	1N5F 20% 400V	△ 10442770
<b>CP050</b>	150POF 20% 400V	△ 20738090
<b>CP052,112</b>	2N2F 10% 1KOV	13090980
<b>CP111</b>	470POF 10% 2KOV	25392030
<b>CP182</b>	330NF 10% 63V	13076090



<b>LL001</b>		10669660
<b>LL008</b>	DSTFBT 1372.0042	△ 10649040
<b>LL037</b>		△ 10518230
<b>LP001</b>		△ 10203560
<b>LP006,008</b>	35UOH	10651740
<b>LP020</b>	STAND-BY	△ 25425970
<b>LP050</b>	SMT7	△ 10670390
<b>LP070</b>	DRIVER	△ 60412091

## OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS

<b>BB010</b>	CATHODE RAY TUBE SOCKET △ SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	80298800
<b>BJ010</b>	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	10037440
<b>BJ011</b>	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS	20392900
<b>BQ012</b>	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK	10539510
<b>CH200</b>	ON/OFF SWITCH MSB2000 △ CONTACTEUR MARCHE/ARRET MSB2000 EIN-AUS SCHALTER MSB2000 CONTATTORE ACCESO/ SPENTO MSB2000 CONTACTOR MARCHA/PARADA MSB2000	10276500
<b>CJ015</b>	CABLE WITH CONNECTOR 9 PINS 380MM CABLE AVEC CONNECTEUR 9 VOIES 380MM KABEL MIT VERBINDER 9 PINS 380MM CAVO CON CONNETTORE 9 SPINOTTI 380MM CABLE CON CONECTOR 9 PUNTOS 380MM	10512510
<b>CJ020</b>	CABLE WITH CONNECTOR 10 PINS 380MM CABLE AVEC CONNECTEUR 10 VOIES 380MM KABEL MIT VERBINDER 10 PINS 380MM CAVO CON CONNETTORE 10 SPINOTTI 380MM CABLE CON CONECTOR 10 PUNTOS 380MM	25434810
<b>CJ030</b>	CABLE WITH CONNECTOR 6 PINS 500MM CABLE AVEC CONNECTEUR 6 VOIES 500MM KABEL MIT VERBINDER 6 PINS 500MM CAVO CON CONNETTORE 6 SPINOTTI 500MM CABLE CON CONECTOR 6 PUNTOS 500MM	25460570
<b>CJ035</b>	CABLE WITH CONNECTOR 3 PINS 580MM CABLE AVEC CONNECTEUR 3 VOIES 580MM KABEL MIT VERBINDER 3 PINS 580MM CAVO CON CONNETTORE 3 SPINOTTI 580MM CABLE CON CONECTOR 3 PUNTOS 580MM	30020170

<b>CJ050</b>	CABLE WITH CONNECTOR 7 PINS 500MM WHITE CABLE AVEC CONNECTEUR 7 VOIES 500MM BLANC KABEL MIT VERBINDER 7 PINS 500MM WEIB CAVO CON CONNETTORE 7 SPINOTTI 500MM BIANCO CABLE CON CONECTOR 7 PUNTOS 500MM BLANCO	25018710
<b>CJ100</b>	THT CABLE CABLE THT KABEL THT CAVO THT CABLE THT	△ 10664300
<b>CJ105</b>	CABLE 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED KABEL 460MM 20KV HT STRIPPED CAVO 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED	△ 10369650
<b>CJ130</b>	CABLE WITH CONNECTOR 6 PINS 740MM RED CABLE AVEC CONNECTEUR 6 VOIES 740MM ROUGE KABEL MIT VERBINDER 6 PINS 740MM ROT CAVO CON CONNETTORE 6 SPINOTTI 740MM ROSSO CABLE CON CONECTOR 6 PUNTOS 740MM ROJO	25485670
<b>FP001</b>	2A5T 250V TIME-LAG FUSE △ 2A5T 250V FUSIBLE TEMPORISE 2A5T 250V SICHERUNG 2A5T 250V FUSIBILE TEMPORIZATO 2A5T 250V FUSIBLE TEMPORIZADO	10246750
<b>SK101,102,103,104</b>	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	30011100
<b>SP015</b>	RELAY 12V RELAIS 12V RELAIS 12V RELE 12V RELE 12V	△ 90294100



**EQUIPMENT/PRESENTATION  
EQUIPEMENT/PRESENTATION  
AUSSTATTUNG/GEHAEUSE  
PARTI VARIE  
EQUIPO/PRESENTACION**

EXTENSION CABLE 21 PINS 350MM CABLE PROLONGATEUR 21 VOIES 350MM VERLAENGERUNGSKABEL 21 PINS 350MM CAVO DI PROLUNGA 21 SPINOTTI 350MM CABLE PROLONGADOR 21 PINS 350MM	35120540
FRONT PANEL GY25TH FACADE GY25TH FRONTPLATTE GY25TH PANNELLO FRONTALE GY25TH PANEL FRONTAL GY25TH	25552080
REAR PANEL GY26TH DOS GY26TH RUECKWAND GY26TH PANNELLO POSTERIORE GY26TH TAPA POSTERIOR GY26TH	△ 25552090
JACK PANEL GY20TH TABLEAU DE PRISES GY20TH JACK FRONTPLATTE GY20TH QUADRO DI PRESA JACK GY20TH TABLERO DE TOMA JACK GY20TH	△ 25440650
LOGO SABA LOGO SABA SCHRIFTZUG SABA MARCHIO SABA LOGOTIPO SABA	25295070
CHASSIS SUPPORT SUPPORT CHASSIS CHASSIS HALTER SUPPORTO CHASSIS SOPORTE CHASSIS	25413970
CHASSIS SLIDE SECURING GLISSIERE FIXATION CHASSIS SCHIEBER BEFESTIGUNG CHASSIS SVIVOLO DI FISSAGGIO CHASSIS CORREDERA DE SUJECION CHASIS	25413960
8R OHM 15W LOUDSPEAKER 80X160 8R OHM 15W HAUT PARLEUR 80X160 8R OHM 15W LAUTSPRECHER 80X160 8R OHM 15W ALTOPARLANTE 80X160 8R OHM 15W ALTAVOZ 80X160	10317130
ON/OFF BUTTON GY25TH TOUCHE MARCHE/ARRET GY25TH EIN-AUS TASTE GY25TH TASTO ACCESO/SPENTO GY25TH TECLA MARCHA/PARADA GY25TH	25552110
BUTTON ASSY GY25TH ENSEMBLE DE TOUCHES GY25TH TASTENEINHEIT GY25TH ASSIEME TASTI GY25TH CONJUNTO DE TECLAS GY25TH	25552830
POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION	△ 10260880
CORD STOPPER ATTACHE CORDON SECTEUR ZUGENTLASTUNG BRIDA CORDONE DI ALIMENTAZIONE SUJECION CABLE DE ALIMENTACION	25071420

A66EHJ13X12 CATHODE RAY TUBE A66EHJ13X12 TUBE CATHODIQUE A66EHJ13X12 FARBBIDROEHRE A66EHJ13X12 TUBO CATODICO A66EHJ13X12 T.R.C	△ 10716870
DEGAUSSING COIL BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETTIZZAZIONE BOBINA DE DESMANTACION	△ 47320183
MB2100 REMOTE CONTROL MB2100 REMOTE CONTROL MB2100 FERNBEDIENUNG MB2100 TELECOMANDO MB2100 TELEMANDO	21107460
FOLDING BOX EMBALLAGE CARTON KARTON IMBALLAGGIO CARTONE EMBALAJE CARTON	25552390
FITTING DOWNER CALE INFERIEURE POLSTER UNTEN DISTRANZIATORE INFERIORE CALZO INFERIOR	25412730
FITTING UPPER CALE SUPERIEURE POLSTER OBEN DISTRANZIATORE SUPERIORE CALZO SUPERIOR	25412740

**MAINTENANCE TOOLS  
MAINTENANCE  
WERKZEUG FUER DAS  
GERAET  
UTENSILI DI MANUTENZIONE  
MANTENIMIENTO**

ICC20 POWER SUPPLY REPAIR KIT ICC20 KIT DE MAINTENANCE ALIMENTATION ICC20 REPARATURSET NETZTEIL TV ICC20 KIT PER RIPARARE L'ALIMENTAZIONE ICC20 KIT DE REPARACION DE ALIMENTACION	35134130
	
S7044C PARTS LIST S7044C LISTE DE PIECES DETACHEES S7044C ERSATZTEILLISTE S7044C LISTA PARTI DI RICAMBIO S7044C LISTA DE PIEZAS DE REPUESTO	35176720
CDROM ICC20 CDROM ICC20 CDROM ICC20 CDROM ICC20 CDROM ICC20	35128440
ICC20 SERVICE MANUAL EUROPE ICC20 DOC TECHNIQUE EUROPE ICC20 TECHNISCHE DOKUMENTATION EUROPE ICC20 DOCUMENTAZIONE TECNICA EUROPE ICC20 DOCUMENTACION TECNICA EUROPE	35118540
C20 15 LANGUAGE UM C20 15 LANGUES UM C20 15 SPRACHE UM C20 15 LINGUA UM C20 15 LENGUA UM	25490140

**S7044C**

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SYSTÈME DE CODAGE POUR RÉPARATION EACEM-IRIS

TABLE DES CODES SYMPTÔMES



Table with 5 columns: CODE SYMPTÔME ETENDU (\*), CODE SYMPTÔME, PAS DE FONCTION, NIVEAU, QUALITÉ, BRUIT. Rows are categorized by GENERALITES, COMMUNICATION, IMAGE, COULEUR, SON, MECANISMES, TRAITEMENT DE DONNEES, IMPRESSION/NUMERISATION (SCAN).

Table with 8 columns: INSTABILITÉ, PROBLÈMES PHYSIQUES OU D'ENREGISTREMENT, FONCTION SPÉCIALE, AUTRES CONDITIONS, PROBLÈME DE TÉLÉCOMMANDE, DOMMAGE PHYSIQUE, DÉFAUT DE LA FONCTION GÉNÉRALE, DEMANDES SPÉCIALES. Rows are categorized by INSTABILITÉ, PROBLÈMES PHYSIQUES OU D'ENREGISTREMENT, FONCTION SPÉCIALE, AUTRES CONDITIONS, MAUVAISE RÉCEPTION, MAUVAISE QUALITÉ D'IMAGE, MAUVAISE QUALITÉ DE COULEUR, MAUVAISE QUALITÉ DE SON, INSTABILITÉ MÉCANIQUE, DOMMAGE AUX MÉDIAS (DISQUE, CASSETTE), PROBLÈME DE PÉRIPHÉRIQUE (HORS ENREGISTREMENT), PROBLÈME DE STOCKAGE DES DONNÉES, MAUVAIS TRAITEMENT SPÉCIAL DE DONNÉES, MAUVAIS FONCTION D'IMPRESSIION (SCAN), MAUVAISE FONCTION DE POLICES/ CARACTÈRES.

# EACEM - CODES DE SECTION

COMMUN	
<b>ANT</b>	ÉTAGE D'ANTENNE
<b>APR</b>	TRAITEMENT DES SIGNAUX (ANALOGIQUE)
<b>BCH</b>	CHARGEMENT DE BATTERIE
<b>CLK</b>	ÉTAGE DE MINUTERIE
<b>CPA</b>	TRAITEMENT COULEUR ANALOGIQUE
<b>CTR</b>	PANNEAU DE CONTRÔLE
<b>DPR</b>	TRAITEMENT DES SIGNAUX (NUMÉRIQUE)
<b>ERA</b>	CIRCUIT EFFACEMENT
<b>FLX</b>	PLAQUETTE FLEXIBLE
<b>HFS</b>	ÉTAGE DE HAUTE FRÉQUENCE
<b>IDS</b>	CIRCUIT DE DISPLAY
<b>IFC</b>	CIRCUIT FI
<b>ILN</b>	SECTION I.LINK (IEEE1394)
<b>INP</b>	ÉTAGE D'ENTRÉE DES SIGNAUX
<b>IRD</b>	CIRCUIT INFRAROUGE (IrDA)
<b>MEM</b>	ÉTAGE DE MÉMOIRE
<b>OUT</b>	ÉTAGE DE SORTIE DES SIGNAUX
<b>PRG</b>	ÉTAGE DE PROGRAMMATION
<b>PRT</b>	CIRCUIT DE PROTECTION/CIRCUIT
<b>PSU</b>	ALIMENTATION
<b>PWA</b>	AMPLIFICATEUR DE PUISSANCE
<b>REM</b>	TELECOMMANDE
<b>RFU</b>	AMPLIFICATEUR/UNITÉ RF
<b>SFT</b>	SOFTWARE (BANDE/DISQUE/ETC.)
<b>SNS</b>	UNITÉ DE DÉTECTION
<b>SVO</b>	ÉTAGE D'ASSERVISSEMENT
<b>SYS</b>	ÉTAGE DU SYSTÈME DE CONTRÔLE
<b>TUN</b>	ÉTAGE DE SYNTONISATION
<b>TXT</b>	TRAITEMENT DE TEXTE

VIDÉO	
<b>LCD</b>	SECTION LCD
<b>LMP</b>	CIRCUIT LAMPE/FLASH
<b>VPA</b>	TRAITEMENT VIDÉO ANALOGIQUE
<b>VPD</b>	TRAITEMENT VIDÉO DIGITAL
<b>VWF</b>	VISEUR

PC	
<b>FDD</b>	ENTRAÎNEMENT DU DISQUE FLEXIBLE
<b>FMW</b>	PROGRAMMATION FIXE
<b>HDD</b>	ENTRAÎNEMENT DU DISQUE DUR
<b>ISA</b>	SECTION ISA
<b>JST</b>	MANETTE DE JEU
<b>KBD</b>	CLAVIER
<b>MDM</b>	CIRCUIT MODEM
<b>NIF</b>	INTERFACE RÉSEAU
<b>PAR</b>	PORTE PARALLÈLE
<b>PCC</b>	CARTE PC
<b>PCI</b>	CIRCUIT PCI
<b>SCS</b>	PORTE SCSI
<b>SER</b>	PORTE SÉRIE
<b>USB</b>	PORTE USB

MÉCANIQUE	
<b>ARM</b>	MÉCANISME DU BRAS
<b>BZL</b>	COUVERCLE
<b>CBT</b>	BOÎTIER
<b>CHA</b>	CHÂSSIS
<b>DDM</b>	ÉTAGE D'ENTRAÎNEMENT DU DISQUE
<b>EXC</b>	CONNECTEUR EXTERNE
<b>HCM</b>	MÉCANISME DE SUPPORT DE TÊTE
<b>HOL</b>	SUPPORT DE CASSETTE
<b>INC</b>	CONNECTEUR INTERNE
<b>LDG</b>	MÉCANISME DE CHARGEMENT
<b>LNM</b>	MÉCANISME DE LENTILLE
<b>PFM</b>	MÉCANISME D'AVANCEMENT DU PAPIER
<b>PIN</b>	GALET/LEVIER PRESSEUR
<b>PRI</b>	BLOC D'IMPRIMANTE
<b>RFM</b>	MÉCANISME D'AVANCEMENT DU RUBAN
<b>RHD</b>	TÊTE(S) ROTATIVE(S)
<b>SLD</b>	MÉCANISME DE DÉPLACEMENT
<b>SRS</b>	ÉTAGE DE LA BOBINE DÉBITRICE
<b>STA</b>	BLOQUE STATIQUE
<b>TDM</b>	MÉCANISME D'ENTRAÎNEMENT DE LA BANDE
<b>THR</b>	MÉCANISME DE MISE EN PLACE
<b>TNR</b>	LEVIER DE RÉGLAGE DE LA TENSION DE BANDE
<b>TPT</b>	PARCOURS DE BANDE
<b>TRS</b>	ÉTAGE DE LA BOBINE RÉCEPTRICE
<b>WIR</b>	CÂBLE
<b>XXX</b>	PIÈCES ESTHÉTIQUES

AUDIO	
<b>APA</b>	TRAITEMENT AUDIO ANALOGIQUE
<b>APD</b>	TRAITEMENT AUDIO DIGITAL
<b>CDC</b>	CHANGEUR DE DISQUES
<b>CDS</b>	SECTION CD
<b>MDC</b>	CHANGEUR MD
<b>MDS</b>	CIRCUIT MINIDISQUE
<b>MIC</b>	ÉTAGE DE MICROPHONE
<b>PUD</b>	PHONOLECTEUR
<b>SHD</b>	TÊTE(S) FIXE(S)
<b>SPK</b>	HAUT-PARLEUR

VIDÉO	
<b>CAM</b>	CIRCUIT CAMERA
<b>CPD</b>	TRAITEMENT COULEUR DIGITAL
<b>CRT</b>	ÉCRAN CATHODIQUE
<b>DFL</b>	CIRCUIT DE DÉVIATION
<b>DVD</b>	SECTION DVD
<b>FPK</b>	CIRCUIT DE MISE AU POINT
<b>IMG</b>	UNITÉ D'AFFICHAGE D'IMAGES

## CODES DE DÉFAUTS

MÉCANIQUE	
<b>A</b>	USÉ (OU DÉFAUT MÉCANIQUE GÉNÉRAL)
<b>A1</b>	MAUVAIS FONCTIONNEMENT
<b>B</b>	SALE/MACULÉ
<b>C</b>	DÉRÉGLAGE MÉCANIQUE
<b>D</b>	COUPURE/DÉFECTUEUX
<b>E</b>	DÉFORMATION
<b>F</b>	ENCLÈCHEMENT/CALAGE
<b>G</b>	RAYÉ/ÈBRÉCHÉ/BORDS COUPANTS
<b>H</b>	CRAQUELÉ/DÉCOLLÉ/ROUILLÉ/FONDU
<b>I</b>	LÂCHE/DÉTACHÉ/DÉNUDÉ
<b>J</b>	INSTABLE
<b>K</b>	FUITE MÉCANIQUE
<b>L</b>	SEC (PAS DE LUBRIFIANT)
<b>M</b>	OBJET/CORPS ÉTRANGER

ÉLECTRIQUE	
<b>N</b>	COMPOSANT/MODULE ÉLECTRIQUE DÉFECTUEUX
<b>O</b>	BRÛLÉ/ARC/PIXELS MANQUANTS
<b>P</b>	DÉRÉGLAGE ÉLECTRIQUE/AJUSTAGE INCORRECT
<b>Q</b>	COURT-CIRCUIT
<b>R</b>	OUVERTURE
<b>S</b>	FUITE ÉLECTRIQUE
<b>T</b>	MAUVAIS CONTACT/SOUURE
<b>T1</b>	MAUVAISE TERRE
<b>U</b>	CIRCUIT OUVERT
<b>V</b>	PLAQUETTE FISSURÉE
<b>W</b>	SOUURE SÈCHE OU MANQUANTE
<b>X</b>	SOUURE EN PONT
<b>Y</b>	PIÈCE/MODULE ERRONÉ
<b>Z</b>	PIÈCE/MODULE MANQUANT
<b>1</b>	PROBLÈME DE LOGICIEL
<b>11</b>	PERTE DES DONNÉES EN MÉMOIRE
<b>12</b>	MAUVAIS PROGRAMME D'INSTALLATION
<b>13</b>	LOGICIEL DÉFECTUEUX OU INCOMPLÈT
<b>14</b>	PROBLÈME DE MISE EN PLACE DU LOGICIEL
<b>15</b>	PAS D'IDENTIFICATION/AUTHENTIFICATION DU PRODUIT OU DE L'UTILISATEUR
<b>2</b>	ÉPUISE/ÉMISSION FAIBLE
<b>3</b>	RAS - DANS LES SPÉCIFICATIONS
<b>4</b>	RAS - UTILISATION PARTICULIÈRE
<b>5</b>	NO PROBLEM FOUND - LOCAL CONDITIONS
<b>51</b>	MAUVAISE TENSION SECTEUR
<b>6</b>	DIAGNOSTIC IMPOSSIBLE
<b>7</b>	CÂBLAGE OU ASSEMBLAGE INCORRECT
<b>81</b>	RACCORDEMENT INCORRECT DE L'ÉQUIPEMENT
<b>9</b>	MAUVAISE UTILISATION
<b>93</b>	MODIFICATION NON AUTORISÉE

## CODES DE RÉPARATION

<b>A</b>	REPLACEMENT
<b>B</b>	RÉGLAGE MÉCANIQUE
<b>C</b>	ELECTRICAL ALIGNMENT
<b>D</b>	RESSOUDEURE PRÉVENTIVE
<b>D1</b>	RETOUCHE/REMISE EN BONNE POSITION (CONNECTEUR/TUBE ...)
<b>E</b>	NETTOYAGE
<b>F</b>	LUBRIFICATION
<b>G</b>	RÉPARATION PIÈCES ÉLECTRIQUES
<b>H</b>	RÉPARATION PIÈCES MÉCANIQUES
<b>I</b>	MODIFICATION DEMANDÉE PAR LE FABRICANT
<b>J</b>	ENLEVÉ/RETIRÉ
<b>K</b>	AJOUTÉ
<b>L</b>	CONTRÔLE FONCTIONNEL
<b>M</b>	MESURE DES SPÉCIFICATIONS
<b>N</b>	ENTRETIEN
<b>O</b>	REMISE EN ÉTAT
<b>P</b>	REPLACEMENT PRÉVENTIF DE PIÈCES

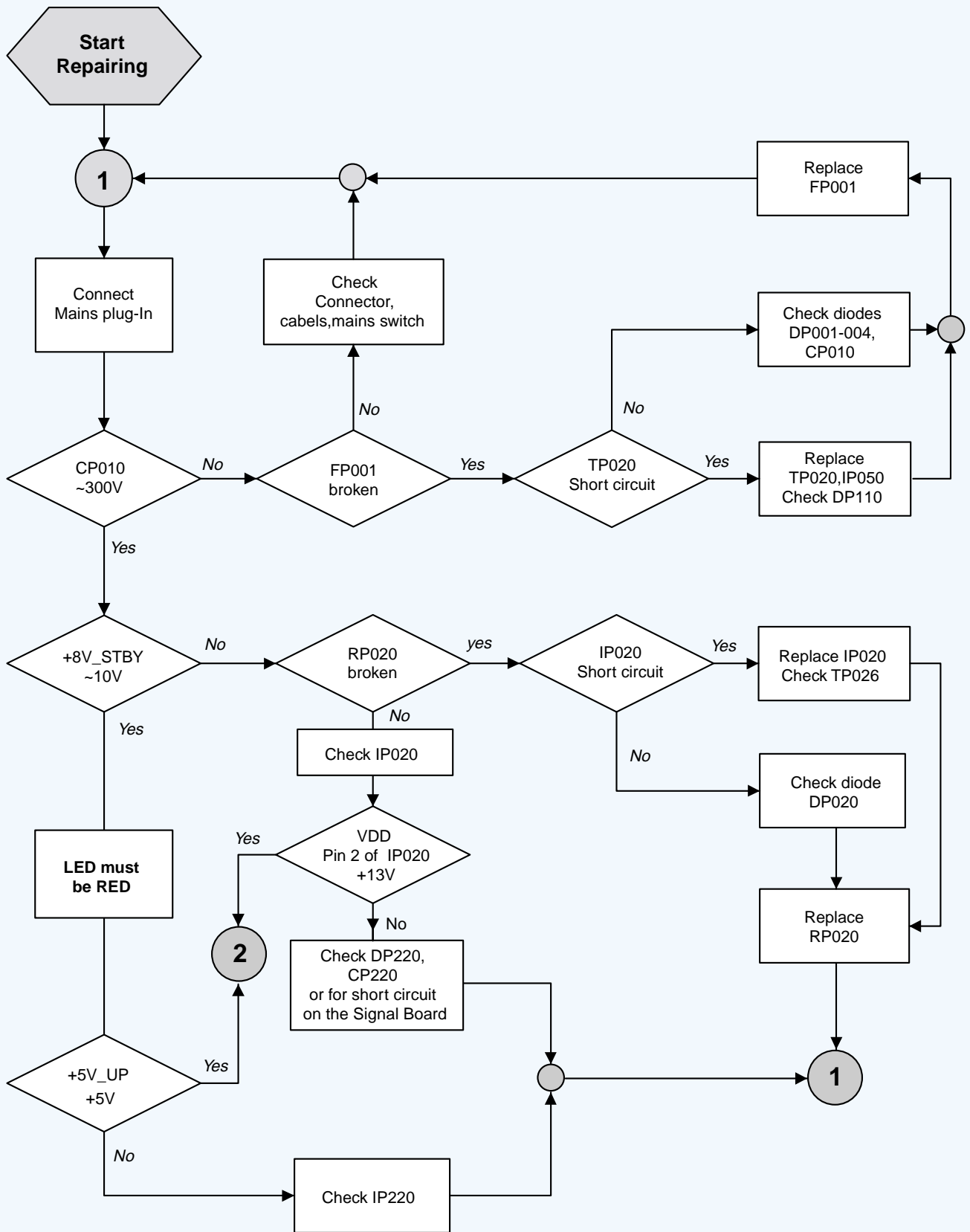
<b>Q</b>	ACTION PRÉVENTIVE SANS REMPLACEMENT DE PIÈCES
<b>U</b>	EXPLICATIONS COMPLÉMENTAIRES
<b>V</b>	DEVIS REFUSÉ
<b>W</b>	DEVIS AVEC PIÈCES
<b>X</b>	DEVIS SANS PIÈCES
<b>Y</b>	RETOUR AU CLIENT SANS RÉPARATION
<b>Z</b>	ÉCHANGE D'APPAREIL
<b>Z1</b>	ÉCHANGE PRODUIT (RÉPARATION TROP COÛTEUSE)
<b>Z2</b>	ÉCHANGE PRODUIT (TROP D'INTERVENTIONS)
<b>Z3</b>	ÉCHANGE PRODUIT (PIÈCE NON DISPONIBLE)
<b>Z4</b>	ÉCHANGE PRODUIT (RÉPARATION IMPOSSIBLE)
<b>Z5</b>	ÉCHANGE PRODUIT (DEMANDE REVENDEUR)
<b>Z6</b>	ÉCHANGE PRODUIT (DEMANDE FABRICANT)
<b>1</b>	CORRECTION DE LOGICIEL/RÉINITIALISATION
<b>2</b>	REMISE À NIVEAU DU LOGICIEL
<b>3</b>	REMISE À NIVEAU DU PRODUIT

### EXEMPLE

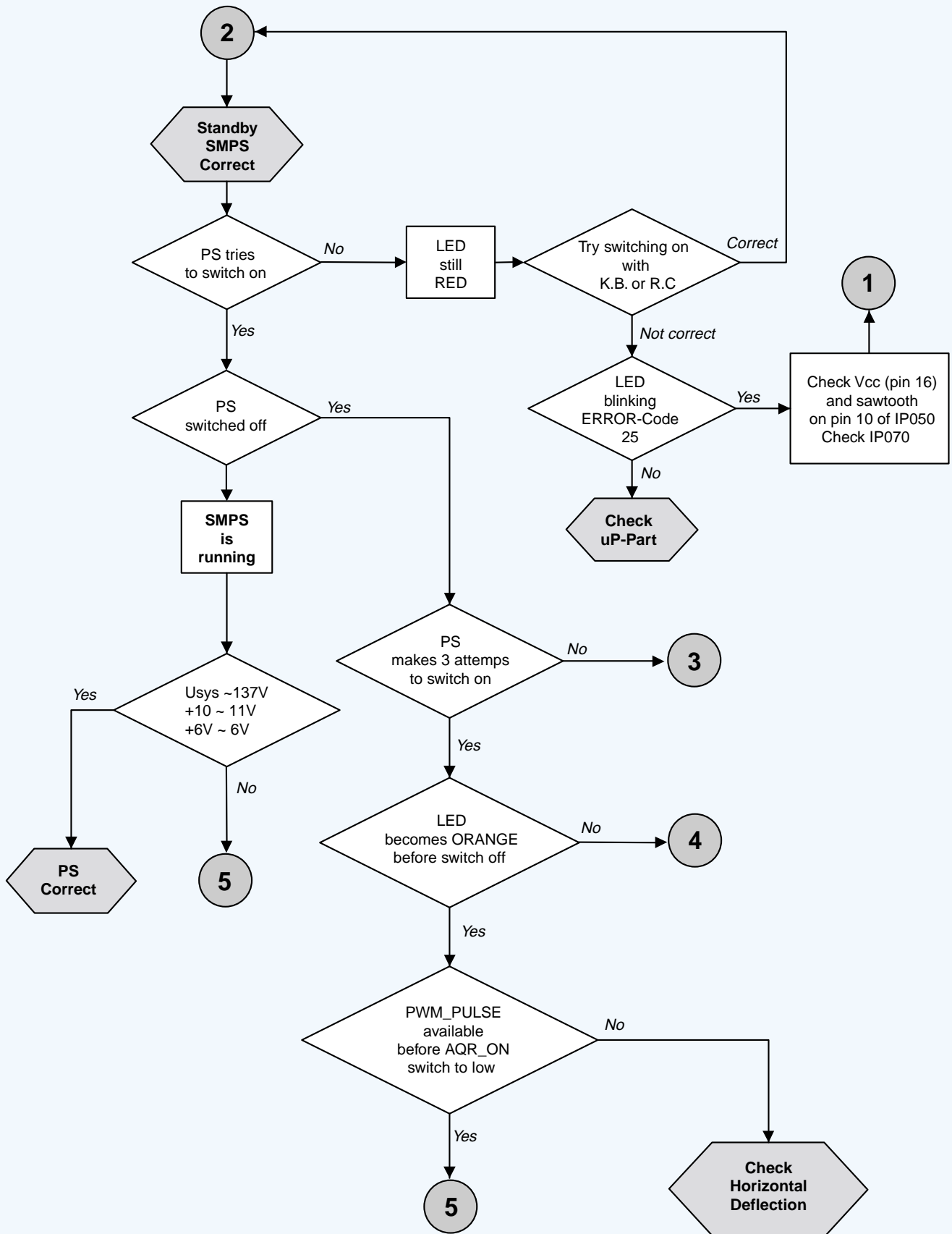
CODE SYMPTÔME	RÉFÉRENCE PIÈCE	RÉFÉRENCE SCHEMA	CODE SECTION	CODE PLAQUETTE	CODE DÉFAUT	CODE RÉPARATION	NOMBRE
1 4 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R 1 2 3 . . . .	T D M	Y A 2 2 . . .	C 1	Z 1	. . .
3 6 4 1	3 4 5 6 7 8 9 X X X X X X X X X X	1 1 1 . . . . .	1 1 1				. . .



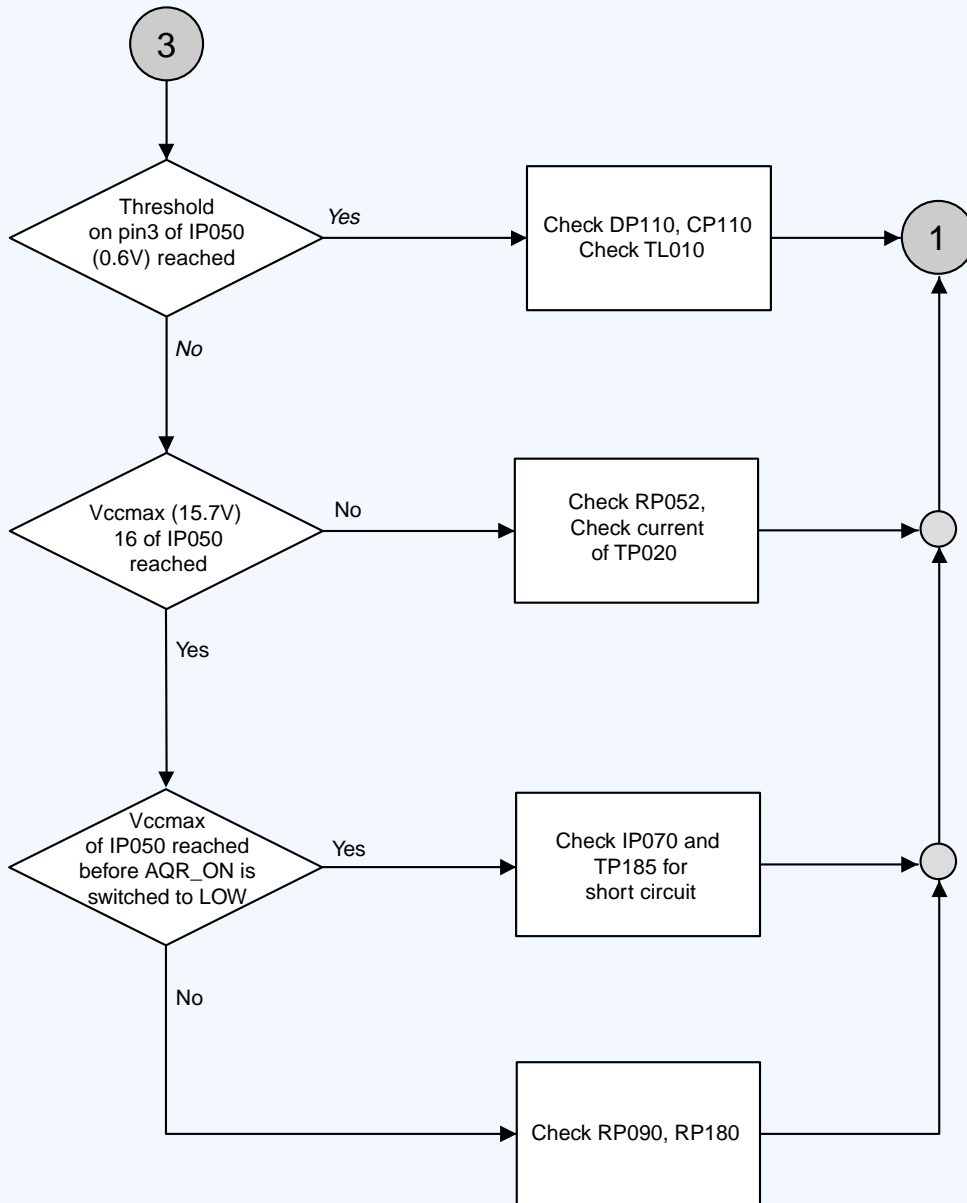
# MAIN POWER SUPPLY CHECK



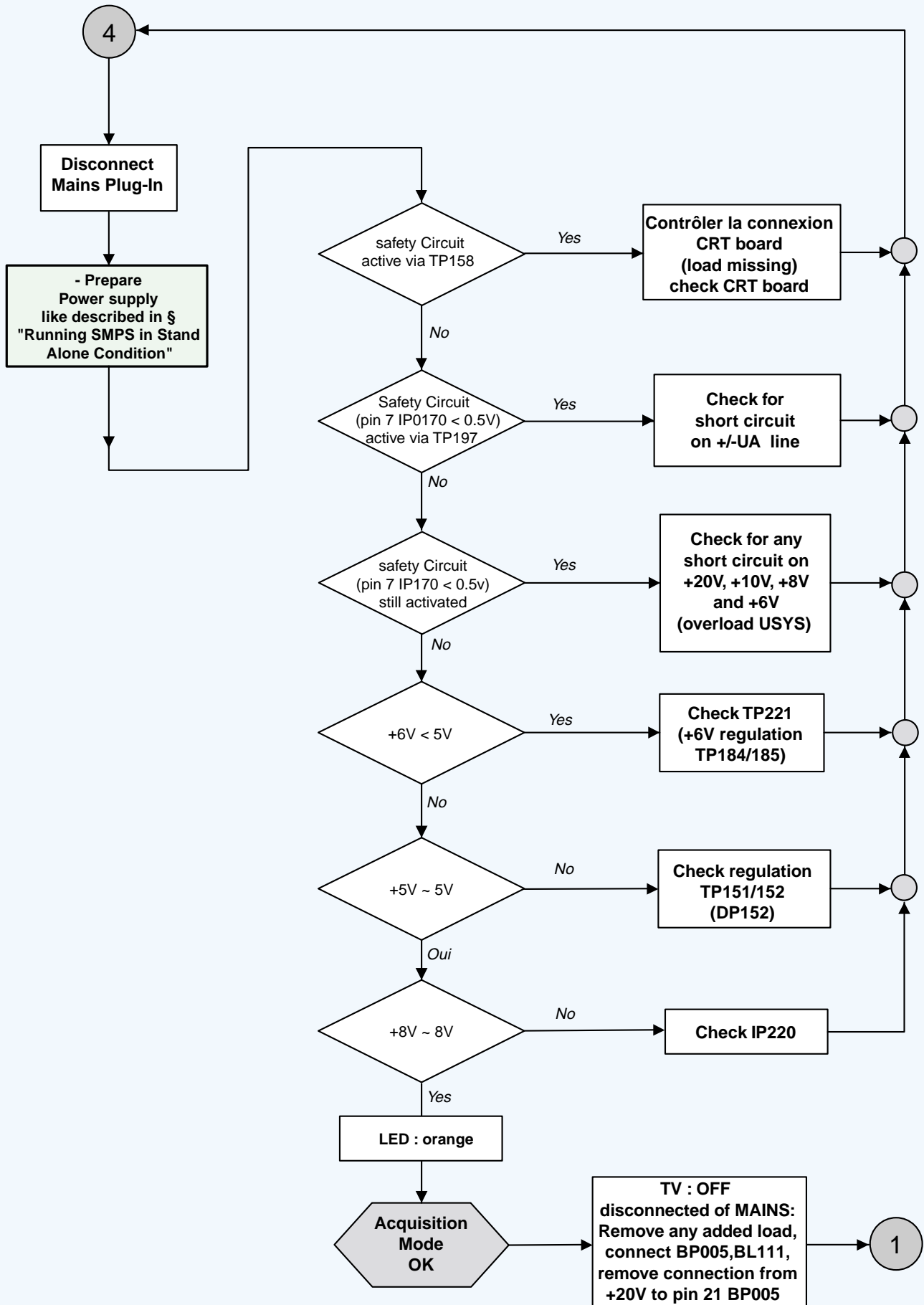
# MAIN POWER SUPPLY CHECK



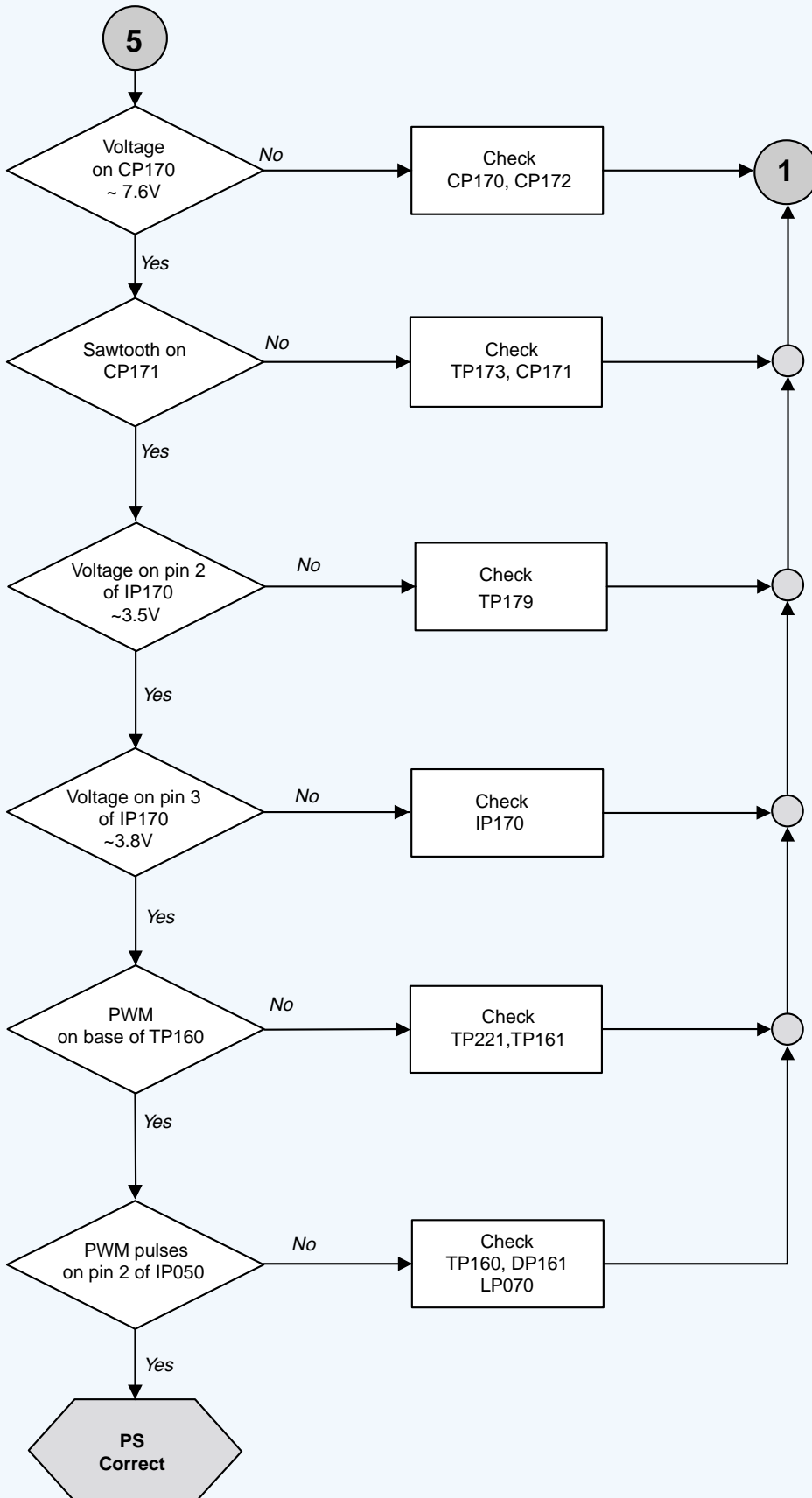
# MAIN POWER SUPPLY CHECK



# MAIN POWER SUPPLY CHECK



# MAIN POWER SUPPLY CHECK



## RUNNING POWER SUPPLY IN STAND ALONE CONDITION



All of the following tests must be carried out with the MAINS switched OFF.

Any operations carried out with the MAINS switched ON may lead to components being destroyed.

With the following configuration it is possible to start the power supply in stand alone function.

- Disconnect mains.
  - Remove connector BP005 and BL111.
  - Make a connection between pin 18 (PO) of BP005 to GND .
  - Connect pin 21 (CNT2\_20V) of BP005 to cathode of DP120 (+20V).
  - Connect a resistor 12R0/5W between +5V and GND.
  - Connect a resistor 18R0/5W between +8V and GND.
  - Connect a resistor 4k0/10W between USYS and GND.
- ONLY NECESSARY IF NO CRT BOARD CONNECTED**

- Connect mains .
- Switch «ON».
- Remove connection between pin 18 (PO) of BP005 and GND.

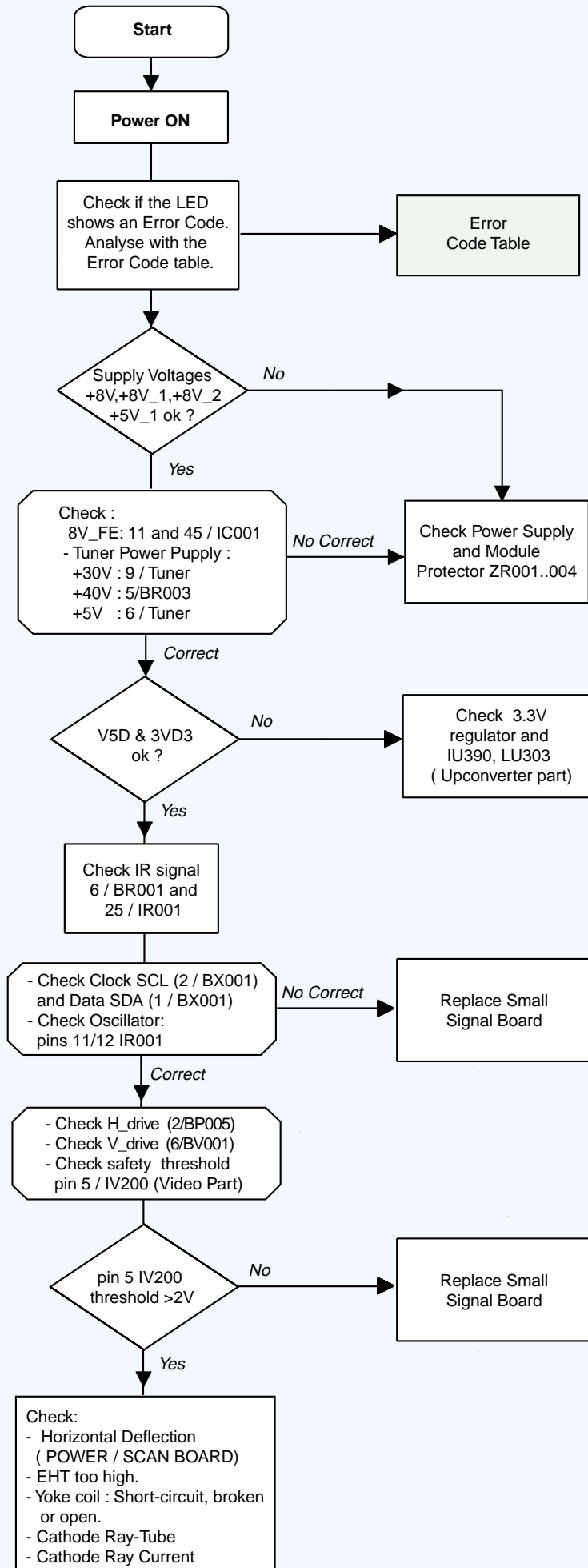
- Measure the following voltages :

Voltage	Value
<b>Usyst</b> ( C / DP110) (G/7)*	185V +/-10V
<b>+20V</b> ( C / DP120) ( G/5)*	25.5V +/- 1V
<b>+10V</b> ( C / DP140) (G/6)*	11.5V +/-0.6V
<b>+8V</b> ( C / DP194) (H/1)*	8.15V +/-0.25V
<b>+6V</b> ( C / DP150) (F/5)*	6.1V +/-0.2V
<b>+5V</b> ( A / DP152) (H/3)*	5.1V +/-0.15V
<b>+UA</b> ( C / DP130) (F/9)*	22V +/-2V
<b>-UA</b> ( A / DP135) (J/8)*	-20V +/-2V

(\*) Components location reference

**NOTE : Don't forget to remove all additional loads, the connection between pin 21 of BP005 and +20V and reconnect BP005, BL111 after stand alone function.**

# CHECK SMALL SIGNAL BOARD



# GENERAL INFORMATION

## METHODOLOGY

### 1 - SWITCHING "ON" THE TV:

- Observe the behaviour of the two-coloured LED: note the various stages and compare them with the normal cycle of events.

By watching this, the point at which the problem arises and the part of the circuit which needs to be investigated can be identified.

### 2 - TROUBLESHOOTING PROCEDURE : LED BEHAVIOUR :

In certain cases a flashing LED signifies the transmission of an error code message:

LED flashes : Message transmission.

- Count the flashes : coded into bursts separated by a pause of 0.7s and repeated several times.  
répétées plusieurs fois.

See the ***ERROR CODE TABLE***.

### 3 - FAULT FINDING :

The ICC20 chassis being equipped with two main boards it is necessary to identify in a first time the defective board and what security is available.

After the check of the ***GOOD CONNECTION BETWEEN THE TWO MAIN BOARDS***

- Operation stages 1 and 2:

#### a - The chassis set operates fully or partially:

- Use LED message observation fault finding methods 1 and 2.  
see also the fault related to fault finding by "***Symptom***".

#### b - The chassis set goes into permanent or cyclical security mode :

b.1- **Observe LED behaviour** (flashing red, stable orange followed by flashing, etc...)  
Select the relevant box in the column : "***LED behavior fault finding***".

See the Error Code Table information.

For example :

Three attempts to switch on the power supply before standby :

- Error code 25 : +5V not available
- Error Code 35 : +5V and +8V not available.
- error Code 37 : No correct level on the NMI (POWER FAIL) line

indicate a problem of "***POWER / SCAN BOARD***".

Please Note :

These information give only an indication because, they don't display all the cases : since various fault generates the same error code or signale a secondary effect relative to the "***SMALL SIGNAL BOARD***" for example.

In the service mode, it is possible to consult a record of the latest error codes which have occurred in the television set.

#### b.2- LED stays off :

Make beforehand the diagnosis of the "***POWER / SCAN BOARD***".



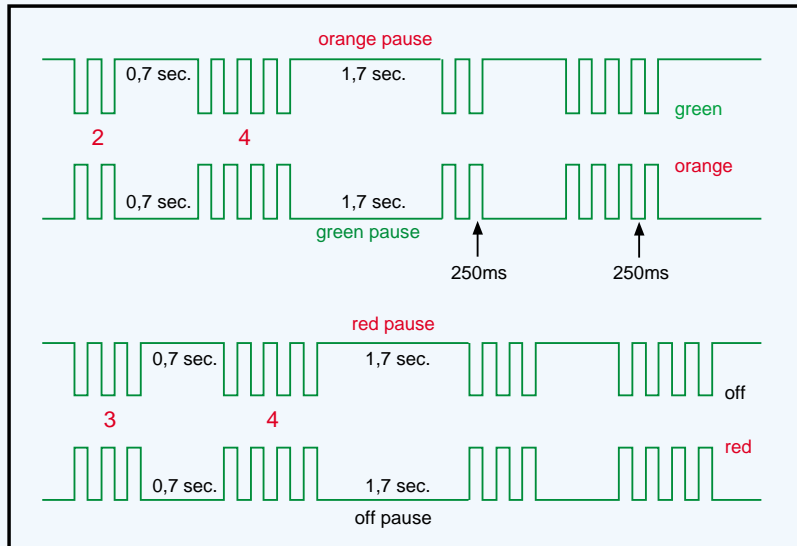
## GENERAL INFORMATION - LED BEHAVIOUR

### LED FLASHES

Message transmission.  
The Error codes are signalled by the RED Standby LED.

Count number of flashes : error code is signalled in two burst separated by a 0.7 s pause and repeated several times.

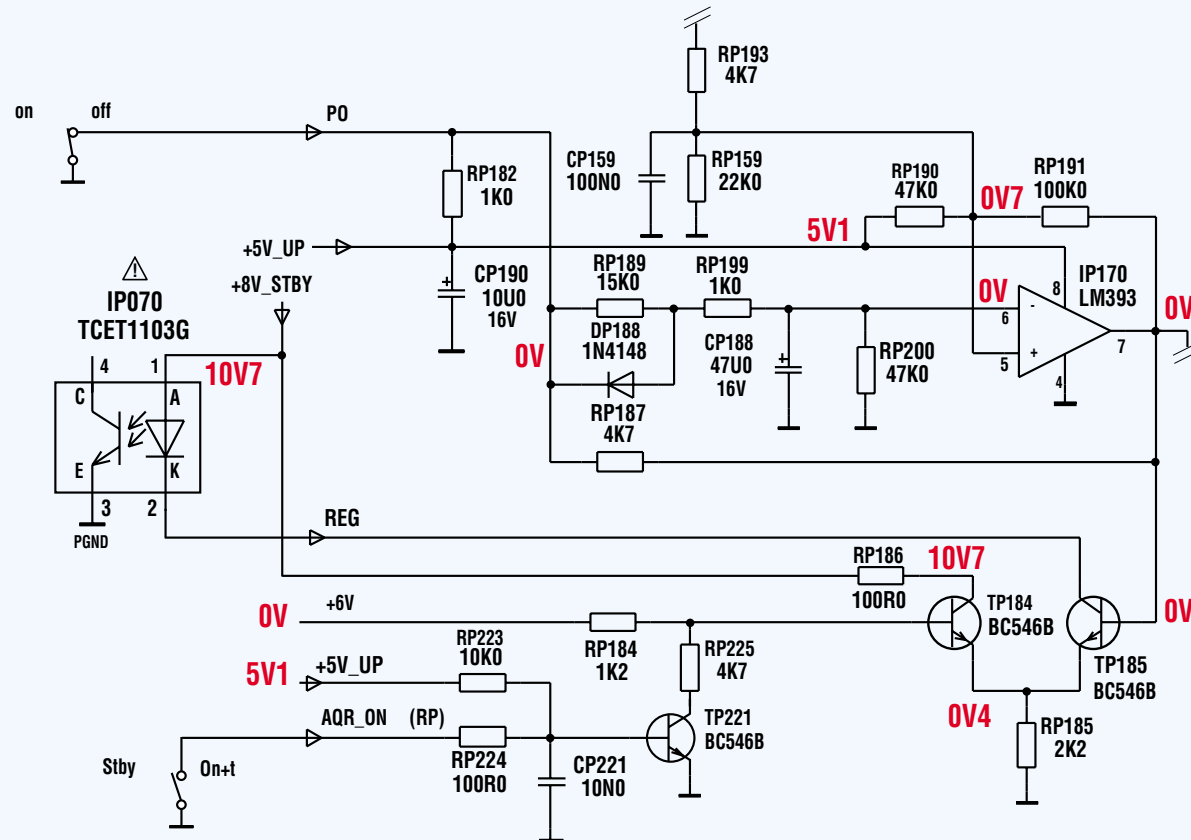
There is 1.7 s between each code sequence .



CODES	DEFAULT
10	Display effective child lock mode
11	Display timer mode
12	Audio-MSP doesn't answer anymore
13	Audio-Dpl doesn't answer anymore
14	TDA9330H doesn't answer anymore
15	TDA9321 doesn't answer anymore
16	DMU0 doesn't answer anymore
17	SAA4956 doesn't answer anymore
18	TDA9178 doesn't answer anymore
19	Tuner doesn't answer anymore
20	I2C Bus is locked
21	I2C Bus data line held low
23	I2C Bus clock line held low
25	Switched 5V not available
26	Tube gets not warm in time
27	Deflection detects >3 times prot
28	Vertical deflection safety is effective
29	Horizontal deflection safety is effective
31	Call with pointer that was not allocated
32	A software-timer has been requested but isn't available yet
34	The NVM chip doesn't answer anymore
35	5V and 8V not available
36	Wrong address passed to the bus-handler
37	Unexpected level on NMI line found
38	Heap full - There is no RAM available for the requested operation
39	I2C Bus data line not recoverable
41	Power down detection TDA9178 (PSI)
42	Power on reset error TDA9320 (HIP)
43	Power on reset error TDA9330 (HOP)
44	NRF bit problem (only factory information)
45	FLS bit problem (only factory information)
46	NHF bit problem (only factory information)
47	NDF bit problem (only factory information)
48	XPR bit problem (only factory information)
49	Problem with bits SXA...D (factory information)

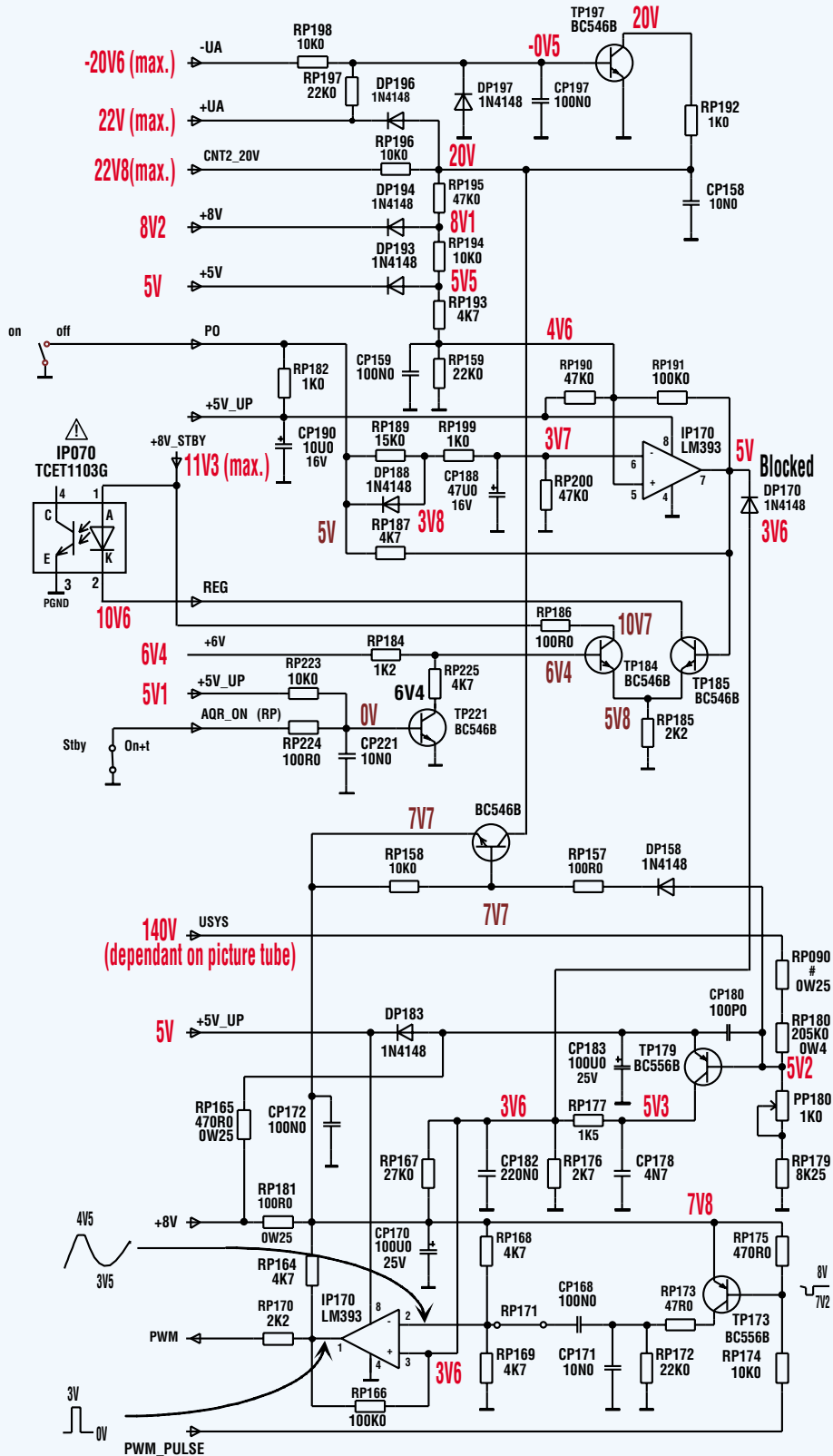
# SECONDARY SAFETY VOLTAGES MEASUREMENTS

## STANDBY MODE



# SECONDARY SAFETY VOLTAGES MEASUREMENTS

ON MODE



## ICC20 Small Signal Board (SSB) exchange method

### Escaping production mode

The replacement board will be delivered in the production mode; this can be easily switched to normal operation once the television has been switch ON by pressing and holding the VOL – (minus) button for approximately 5-seconds.

### Setting the language

The board will be delivered with its menus in French.

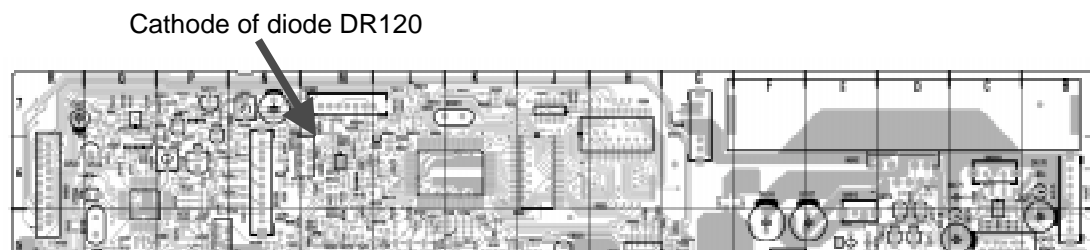
If you want to select another language proceed as follows: -

- Press the "Menu" key on the remote control unit (RCU)
- In the "Sommaire" menu select the "Installation" sub-menu, and then select "Reglages personnels".
- In the "Reglages personnels" menu select "Langues des menus".
- Now select the menu language you require, once selected press the "Exit" key on the RCU.

### Saving the NVM data

Once fitted, the board has to be aligned and adjusted in the Service Mode, however it is possible to save time by copying the contents of the NVM onto a computer without de-soldering it from the board as follow: -

1. Force the microprocessor into the reset mode by connecting the **reset** pin to ground. The best point to pull down the **reset line** is at the cathode of diode DR120 (not fitted).
2. Temporally re-connect the faulty SSB board.
3. Switch "ON" the television.
4. Now the contents of the NVM can be saved to a PC via the TECl bus, an interface kit for copy the NVM content is available from After Sales under Part No. **10613570**



# TECHNICAL INFORMATION

**Finished products / Chassis concerned : ICC20**

**Object / Improvement of the demodulated picture in L standard (France only)**

**Symptom / Problem observed :**

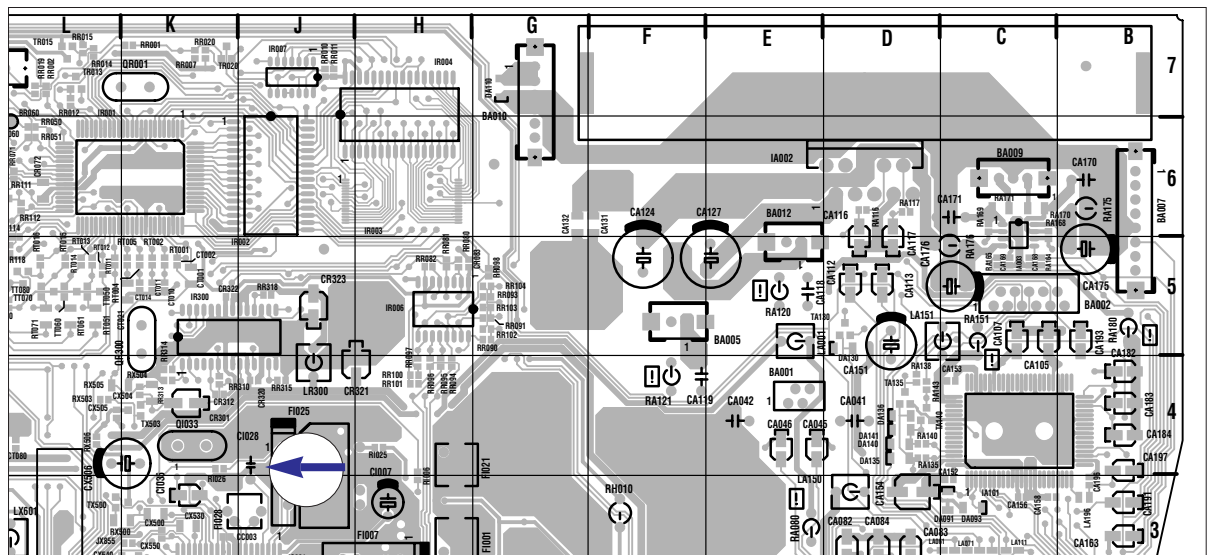
Light horizontal band at the top of the picture, mainly visible on programme 5. (Ia 5 & Arte)

**Cause :**

AGC too time constant too fast.

**Solution :**

Replace metalised polyester capacitor in position CI028 (1 $\mu$ F) by 2.2 $\mu$ F 50V. **(Part N° 13085600)**



**IRIS CODE :** The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

Condition/ Symptom/	Part Code Number	Qty	Position	Section	Fault Code	Repair Code
1 3 2 X	1 3 0 8 5 6 0 0	0 1	C I 0 2 8	I F C	Y	A

You do not need to write anything in the white boxes

# TECHNICAL INFORMATION

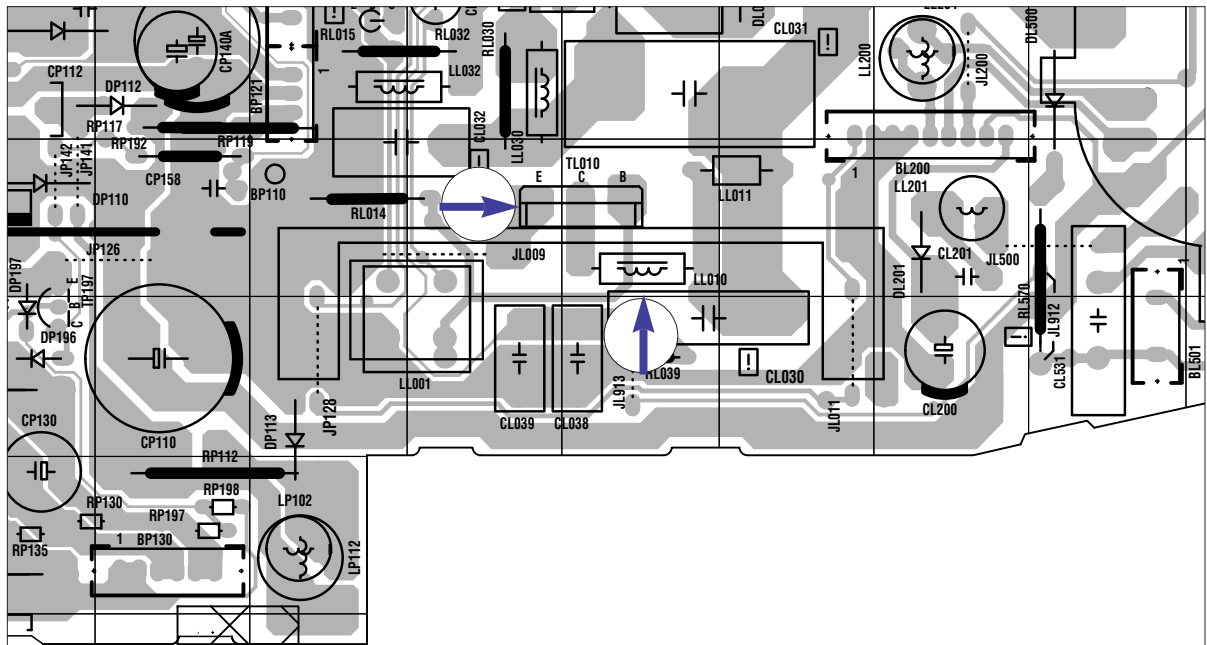
**Finished products / Chassis concerned : ICC20**

**Symptom / Problem observed :**

Light vertical band down the centre of the screen.

**Solution :**

Add an RGP15G diode (**Part No. 10272800**) in parallel with inductor LL010 on copper side of the power and deflection printed circuit board. (diodes cathode to the collector of TL010)



**IRIS CODE :** The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

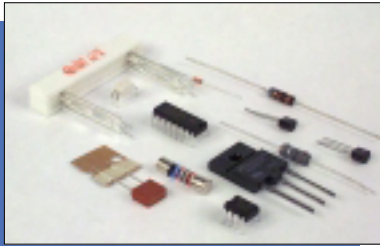
Condition/ Symptom/	Part Code Number	Qty	Position	Section	Fault Code	Repair Code
1 3 2 X	1 0 2 7 2 8 0 0	0 1	D L 0 1 2	D F L	Z	K

You do not need to write anything in the white boxes



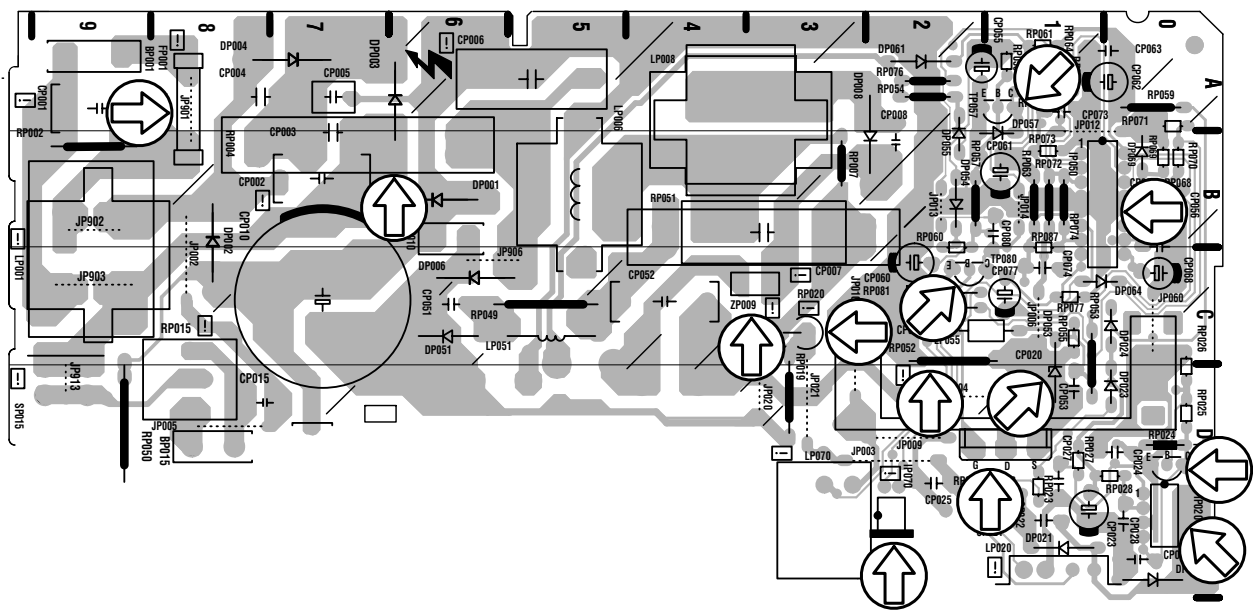
# Maintenance kits

## Power supply repair kit for chassis ICC20



35134130

Description	Qty	Position
BZX55B15 (ZPD15)	1	DP053
2A5T 250V	1	FPO01
VIPER20DIP	1	IP020
TEA2262	1	IP050
TLP621 GR (D4-LF2 T)	1	IP070
2.7Ω 5% 4.50W	1	RP004
100Ω 5% 0.750W	1	RP020
0.1Ω 5% 2.50W	1	RP052
STH13NB60FI	1	TP020
BC546B	2	TP026-TP080
BC337-40	1	TP057
MP315 (3.15A - 65V)	1	ZP009





# Télévision

Chassis ICC20



**Versions : Tubes Cathodiques**

## Section :

**Alimentation**

**Circuit de déviation\_H**

**Circuit de déviation\_V**

**Circuit HF-FI**

**Connecteurs - Scart**

**Mécanique**

**Panneau de contrôle**

**Traitement des données**

**Traitement audio**

**Traitement vidéo**

**Tube - Ecran**

**Autres / Généralités**





## Alimentation

### Description du symptôme

Bruit de l'alimentation.

Bruit de l'alimentation. (harmoniques au-dessus de 100Hz et de faible niveau) ou destruction de la diode DP110.

Défaut de pureté.

Destruction de la diode DP110.

Destruction du transistor en position TP320.

La tension aux bornes du condensateur CP110 peut dépasser sa tension d'isolement (200V).

Le TV ne démarre pas ou ne sort pas de veille.

Ligne verticale ou moirage sur l'écran.

Variation de l'amplitude horizontale (ondulation).



## Circuit de déviation\_H

### Description du symptôme

Bande verticale claire au centre de l'écran. ( 1 )

Bande verticale claire au centre de l'écran. ( 2 )

Le TV ne "démarré" pas.

Repli trame en bas de l'image.

Rotation de l'image.



## Circuit de déviation\_V

### Description du symptôme

Instabilité verticale de l'image (Jitter).



## Circuit HF-FI

### Description du symptôme

Bande claire en haut de l'image, visible principalement sur la 5ème chaîne (La 5, Arte).  
Moirage.



## Traitement des données

### Description du symptôme

Changement aléatoire du format 16/9 (letter box).

L'écran est noir et les bases de temps "démarrent".

Pas de son émanant du subwoofer dû à une mauvaise configuration du son.



## Traitement vidéo

### Description du symptôme

Blocage en mode Zoom.

Décadrement de l'image à droite de l'écran.

En Stand-by, le TV redémarre de lui-même de façon aléatoire.



## Tube - Ecran

### Description du symptôme

Evolution du tube cathodique.	( 1 )
Evolution du tube cathodique.	( 2 )



## Autres/Généralités

### Description du symptôme

Changement de couleurs.

Liste des platines SSB réparables.





## Input / output - Scart

### Symptom description

Failure of diode LL4148 in position DX522.



# trade marks

selected

- Brandt
- FERGUSON
- NORDMENDE
- SABA
- TELEFUNKEN
- THOMSON

1 - Choice of brand name

- United Kingdom
- Scandinavia
- Export

2 - Country selection, if it is not the same as the chosen language

**trade mark**  
this reference contains  
72MK89DU

select a reference  
72MK89DU

ok

United Kingdom

3 - Choice of reference

4 - Validation

- set-up
- warnings
- glossary
- quit

Choice of another language and a new password

Security information

Supplementary information

Exit from application



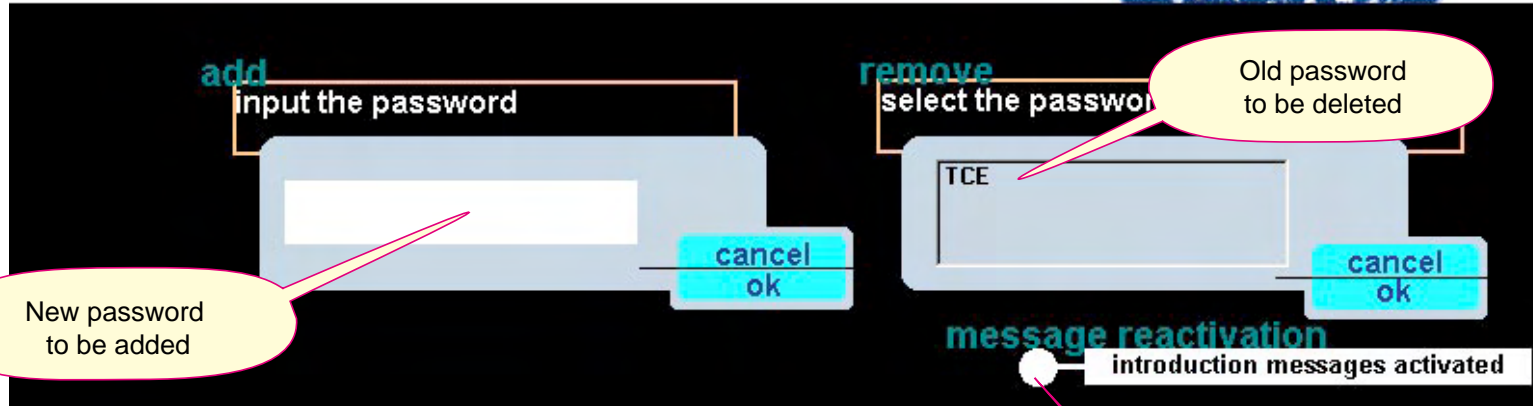
Return to the Previous page

Store modifications to retrieve them for use the next time

country



Language selection



New password to be added

Old password to be deleted

Activation of the presentation message visible during the first use



The image shows a screenshot of a Thomson troubleshooting interface. At the top, there are three menu items: **search**, **methods**, and **particular cases**. Below these is a large blue-bordered area divided into two sections: **select** and **methods**. The **select** section contains a list of repair methods, with the first one, "Checking the protection devices", highlighted. The **methods** section shows a detailed view of the "Protection device checking method". At the bottom, there is a navigation bar with buttons for "72MK89DU", "SPL", "set-up", "warnings", "glossary", and "menu".

Repair advise by symptom or front LED status

Repair method

Performances Improvement

search methods particular cases

**select**

- Checking the protection devices
- Standby power supply troubleshooting
- Checking the main PS and time base (LV)
- Checking the main PS w/o time base (220 VAC)

**methods**

Protection device checking method

Open Method file

Select Repair method

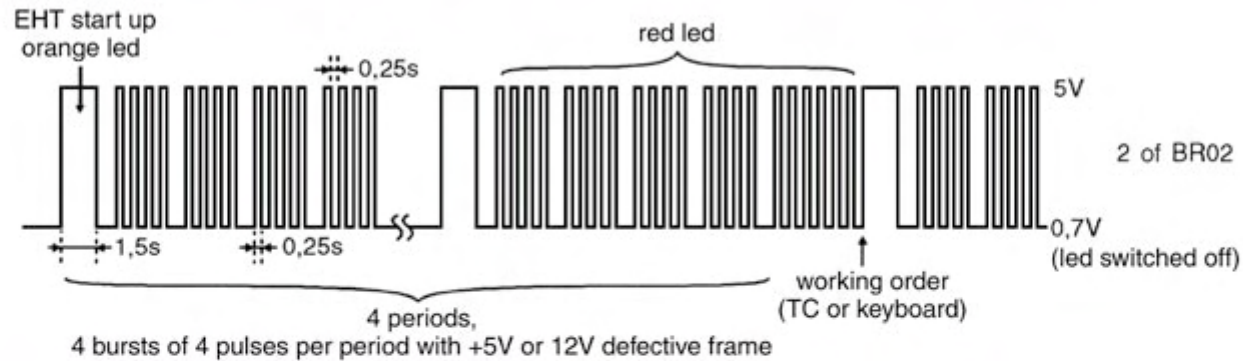
Open Spare Parts List

← methods

72MK89DU SPL set-up warnings glossary menu

# troubleshooting

THOMSON MULTIMEDIA



search methods particular cases

### select

- red/unlit
- orange/green
- start orange, red/unlit 2 times
- start orange, red/unlit 3 times
- start orange, red/unlit 4 times

### probable causes

FAILURE 4 CODE  
corresponds to the startup of the IL001 scan circuit "PROT" PROTECTION input

Characteristic failures and listed causes:

- \*4 EHT startups and stops are noted
- circuit-breaking when switching to set voltage

IRIS code table display

← search LED blinking 4 times

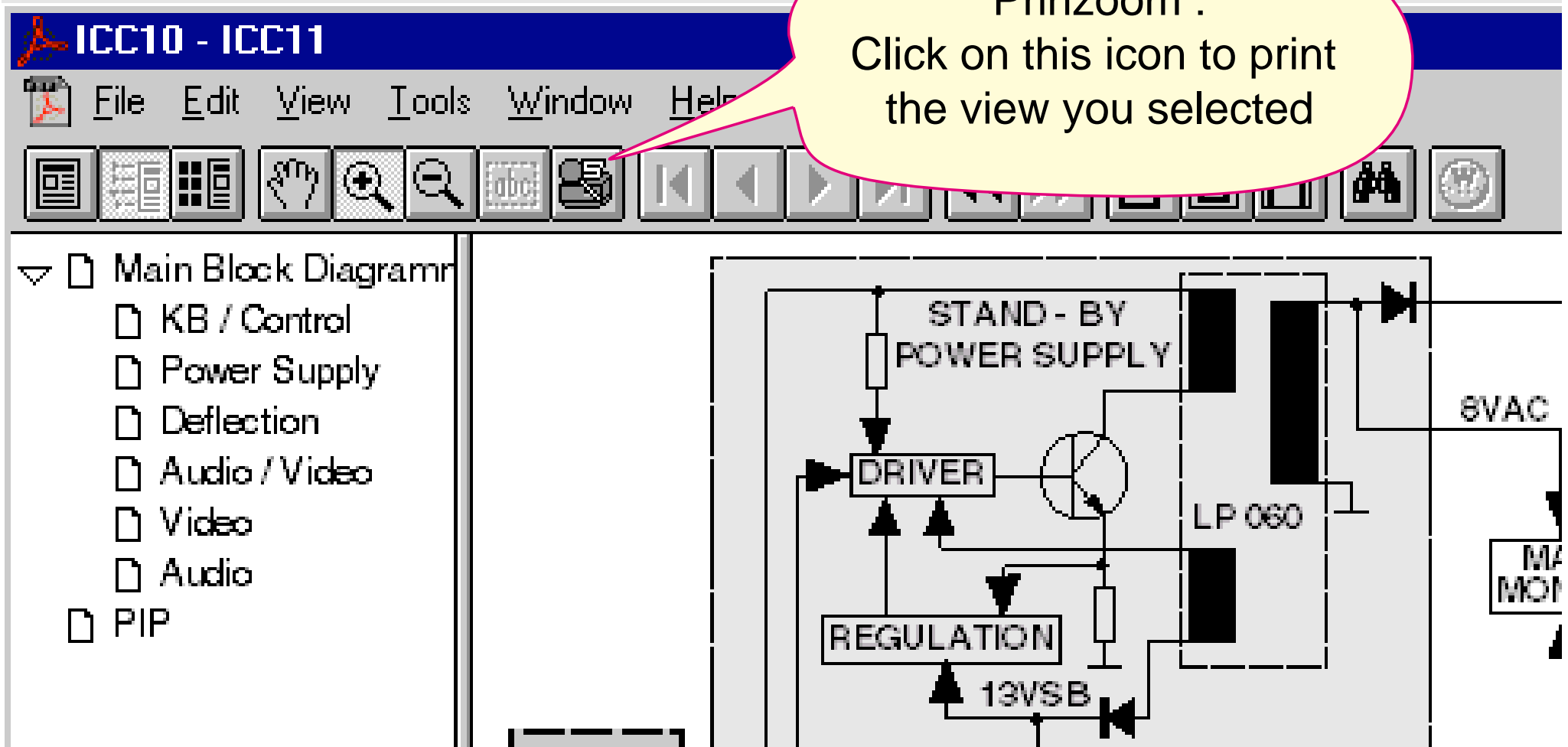
72MK89DV SPL set-up warnings glossary menu

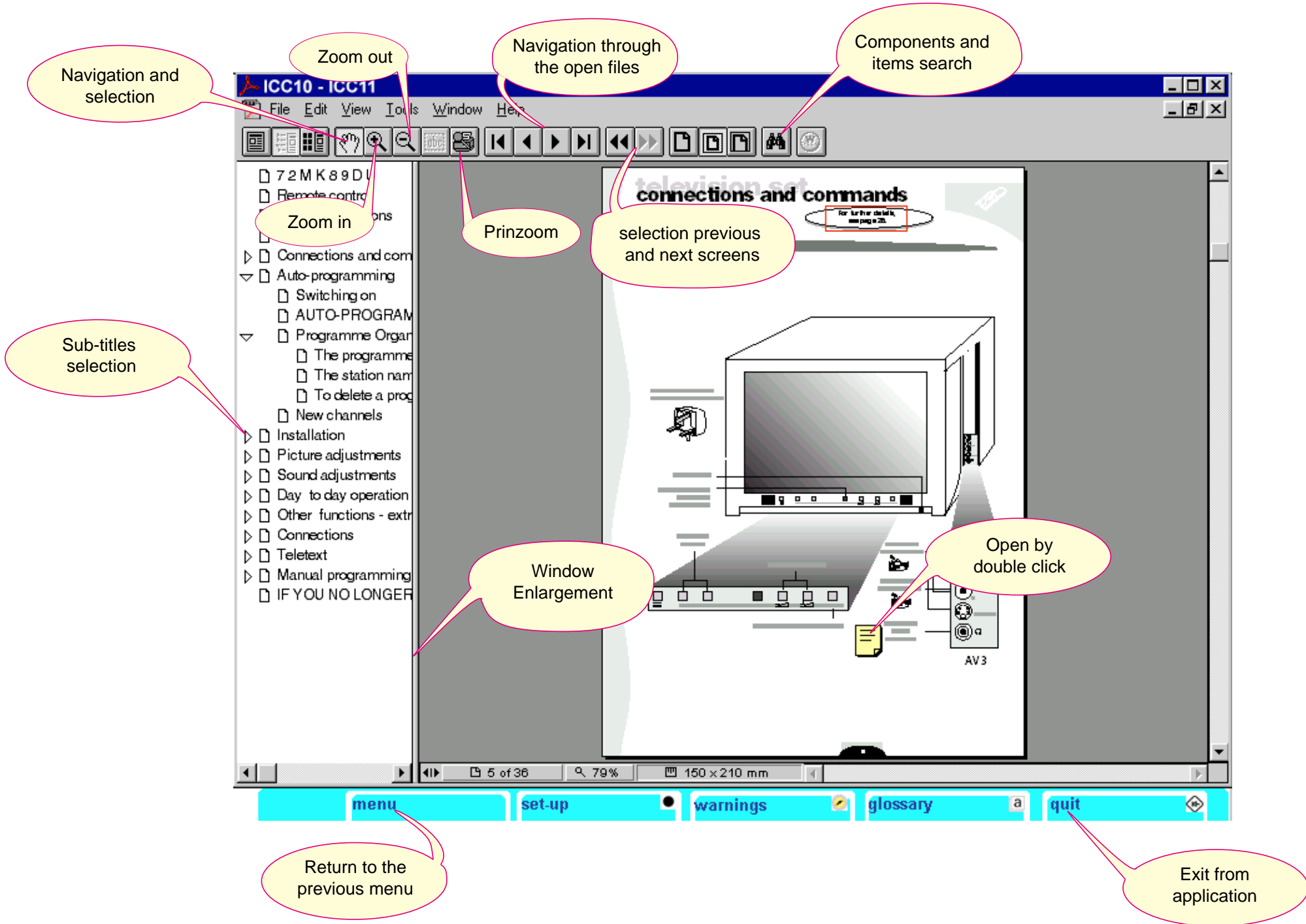
Navigation inside the trouble shooting

Going back to main menu

To set-up the printing, choose the configuration in Print Manager of Windows

Prinzoom :  
Click on this icon to print  
the view you selected





Navigation and selection

Zoom out

Navigation through the open files

Components and items search

Zoom in

Prinzoom

selection previous and next screens

Sub-titles selection

Window Enlargement

Open by double click

Return to the previous menu

Exit from application



After opening an Acrobat file,

The screenshot shows the Thomson diagrams software interface. At the top, the text 'diagrams' is on the left and 'THOMSON' is on the right. A central window titled 'new note' contains a text input field with the text '14MG10U.....connection and control board .. FCB/KB'. Below this window is a toolbar with buttons for 'save' and 'quit'. At the bottom of the screen is a menu bar with items: '14MG10U', 'SPL', 'set-up', 'warnings', 'glossary', 'a', 'menu', and a back arrow. A dark blue sidebar on the left contains the text '14MG10U', 'complete PCB', 'connection and', and 'VHF/UHF tuner'. A yellow callout bubble labeled 'Exit' points to the 'quit' button. Four other yellow callout bubbles provide instructions: '1 - Create a new note' points to a button in the top right of the 'new note' window; '2 - Click here to place the cursor at the end of the line, then press return key' points to the end of the text in the input field; '3 - Type in the title of your new note' points to the text in the input field; and '4 - Save the new note to disk' points to the 'save' button.

THOMSON

diagrams

new note

14MG10U.....connection and control board .. FCB/KB

14MG10U  
complete PCB  
connection and  
VHF/UHF tuner

save quit

14MG10U SPL set-up warnings glossary a menu

Exit

2 - Click here to place the cursor at the end of the line, then press return key

3 - Type in the title of your new note

4 - Save the new note to disk

1 - Create a new note

# trade marks

selected

**Brandt**

## note management

warnings  
instruction booklet  
spare parts list  
product datasheet  
maintenance kits and tools

2 - Click to open the chosen note

**14MG10U**

training  
instruction booklet  
product datasheet  
maintenance kits and tools

quit

14MG10U

set-up

warnings

glossary

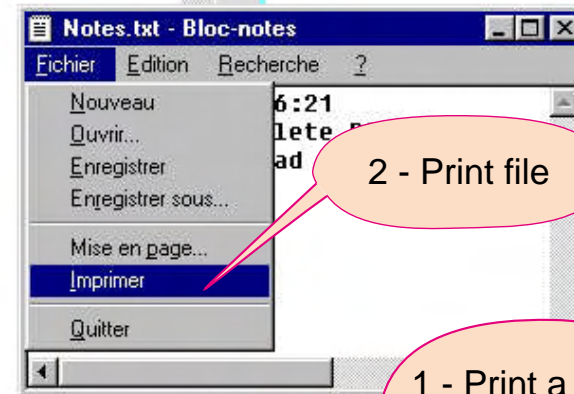
quit

Exit

1 - View the help messages for the menu in operation

note 2 / 3

23/03/98 11:26:21  
14MG10U.....complete PCB diagram ..... MAIN  
RX58 : 4k7 instead of 3k3



You can modify the note you are viewing at any time, simply change the text and save it

2 - Print file

Insert a new note

Suppress the displayed note

1 - Print a copy of the notes

View the notes

Navigate around the different notes available in the open Acrobat file

Save the modifications

Exit the notes programme

