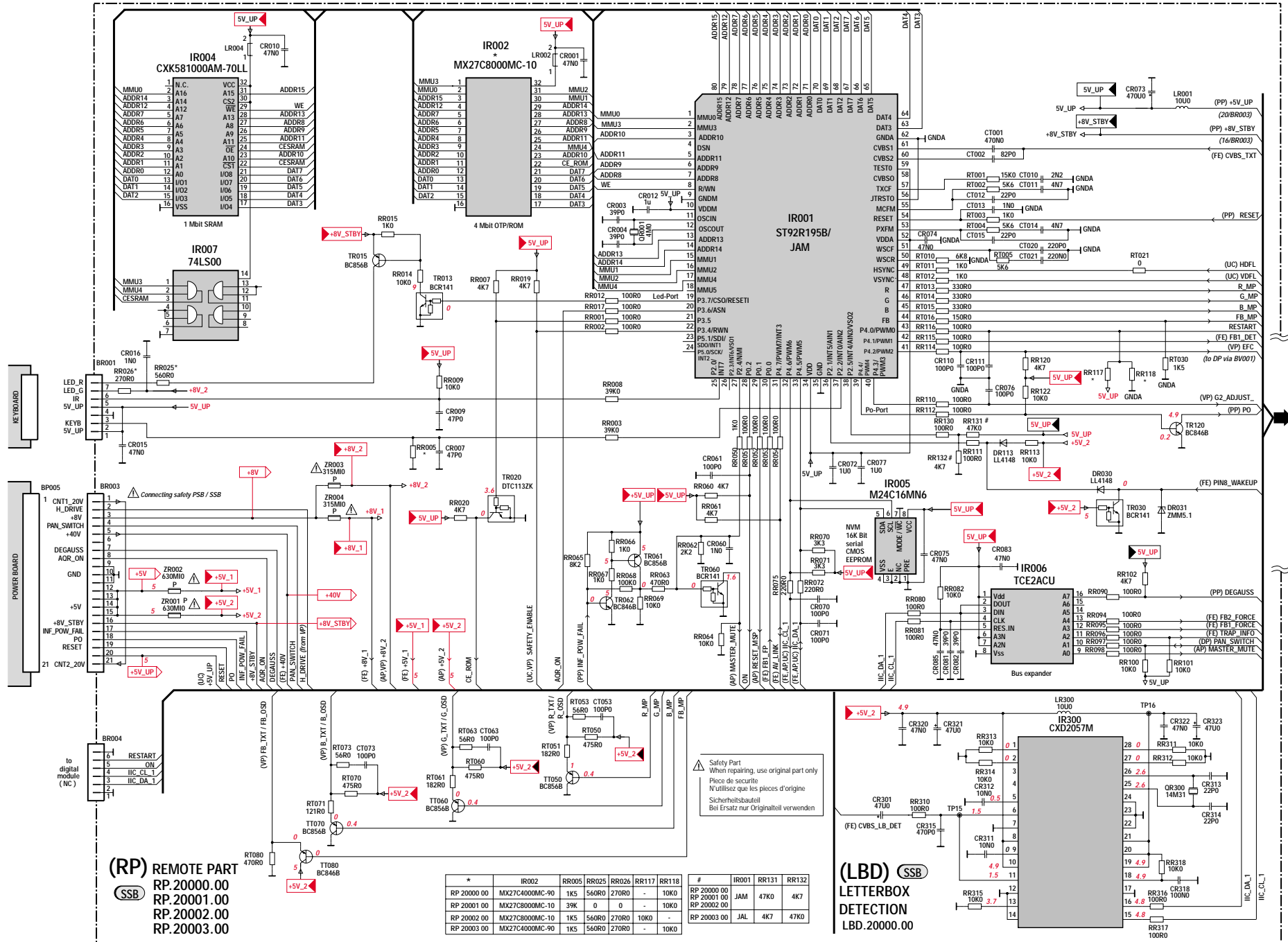


**SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
 REMOTE / MICROCONTROLLER - GESTION / MICROCONTROLEUR - FERNBEDIENUNGS- UND MICROCONTROLLERSTUFEN - MICROPROCESSORE - REMOTO / MICROCONTROLADOR**



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

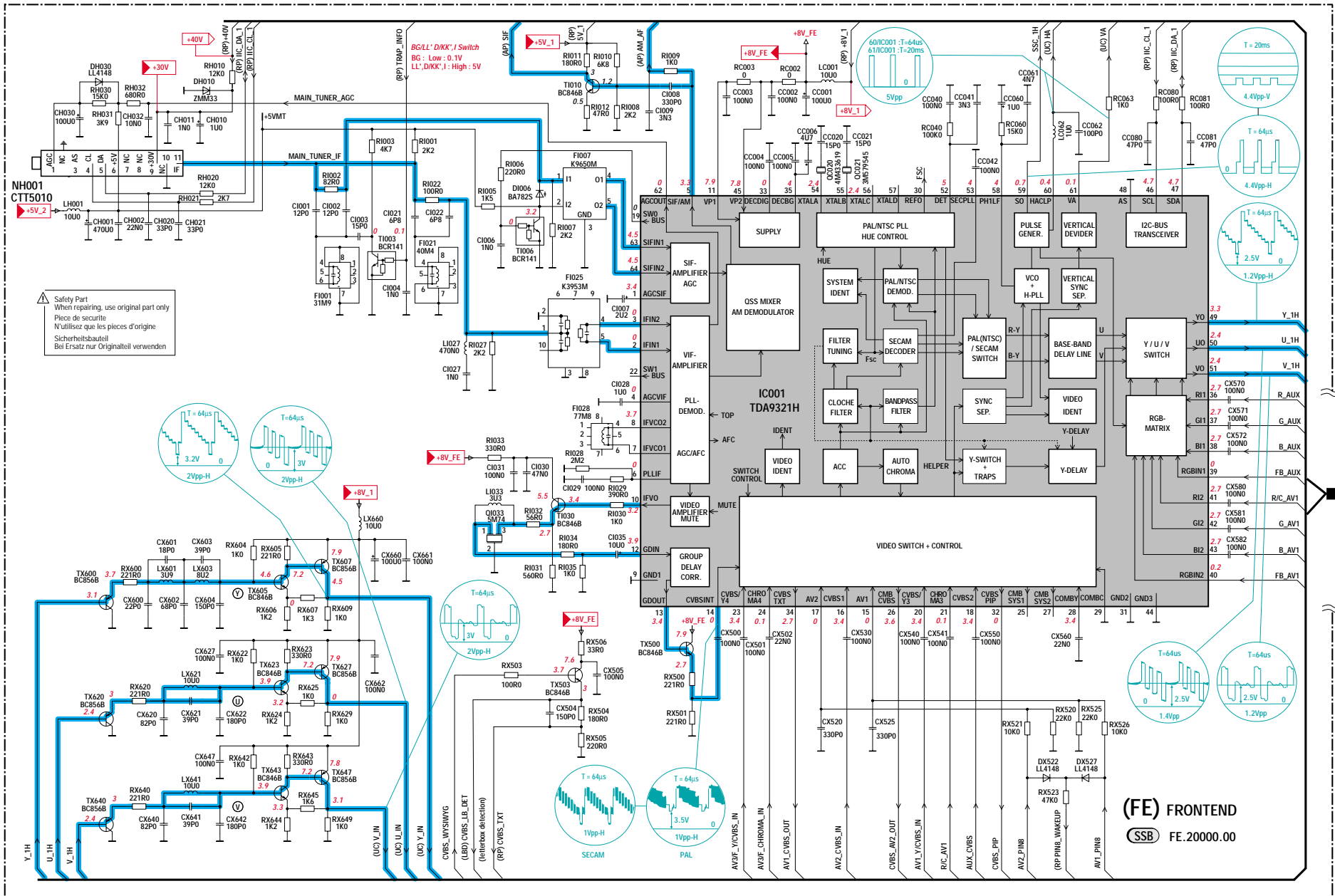
*	IR002	RR005	RR025	RR026	RR117	RR118	#	IR001	RR131	RR132
RP 20000.00	MX27C4000MC-90	1K5	560R0	270R0	-	10K0	RP 20000.00	JAM	47K0	4K7
RP 20001.00	MX27C8000MC-10	39K	0	0	-	10K0	RP 20001.00			
RP 20002.00	MX27C8000MC-10	1K5	560R0	270R0	10K0	10K0	RP 20003.00	JAL	4K7	47K0
RP 20003.00	MX27C4000MC-90	1K5	560R0	270R0	-	10K0				

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

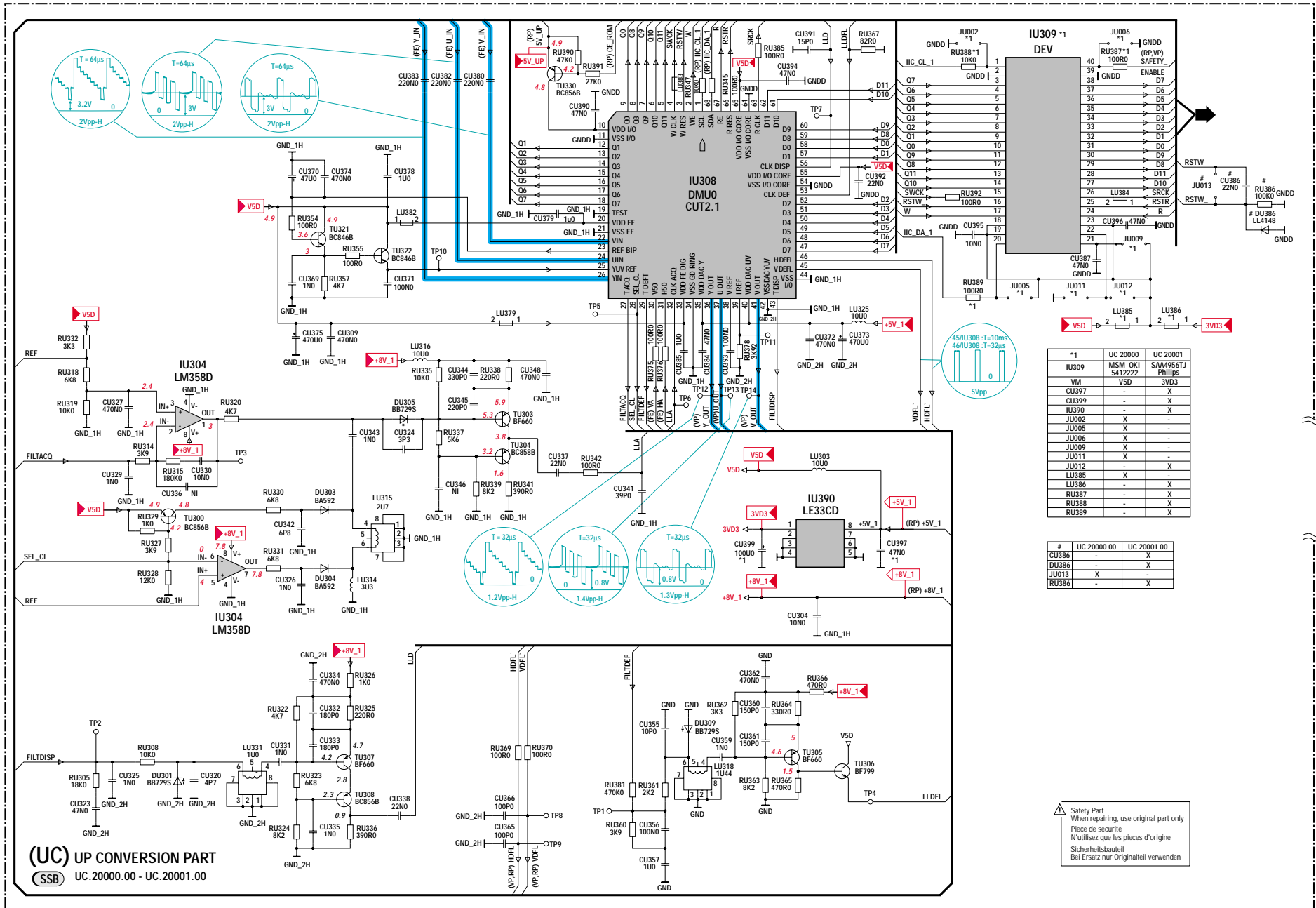
⚠ Safety Part
 When repairing, use original part only
 Pièce de sécurité
 N'utilisez que les pièces d'origine
 Sicherheitsbauteil
 Bei Ersatz nur Originalteil verwenden

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



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



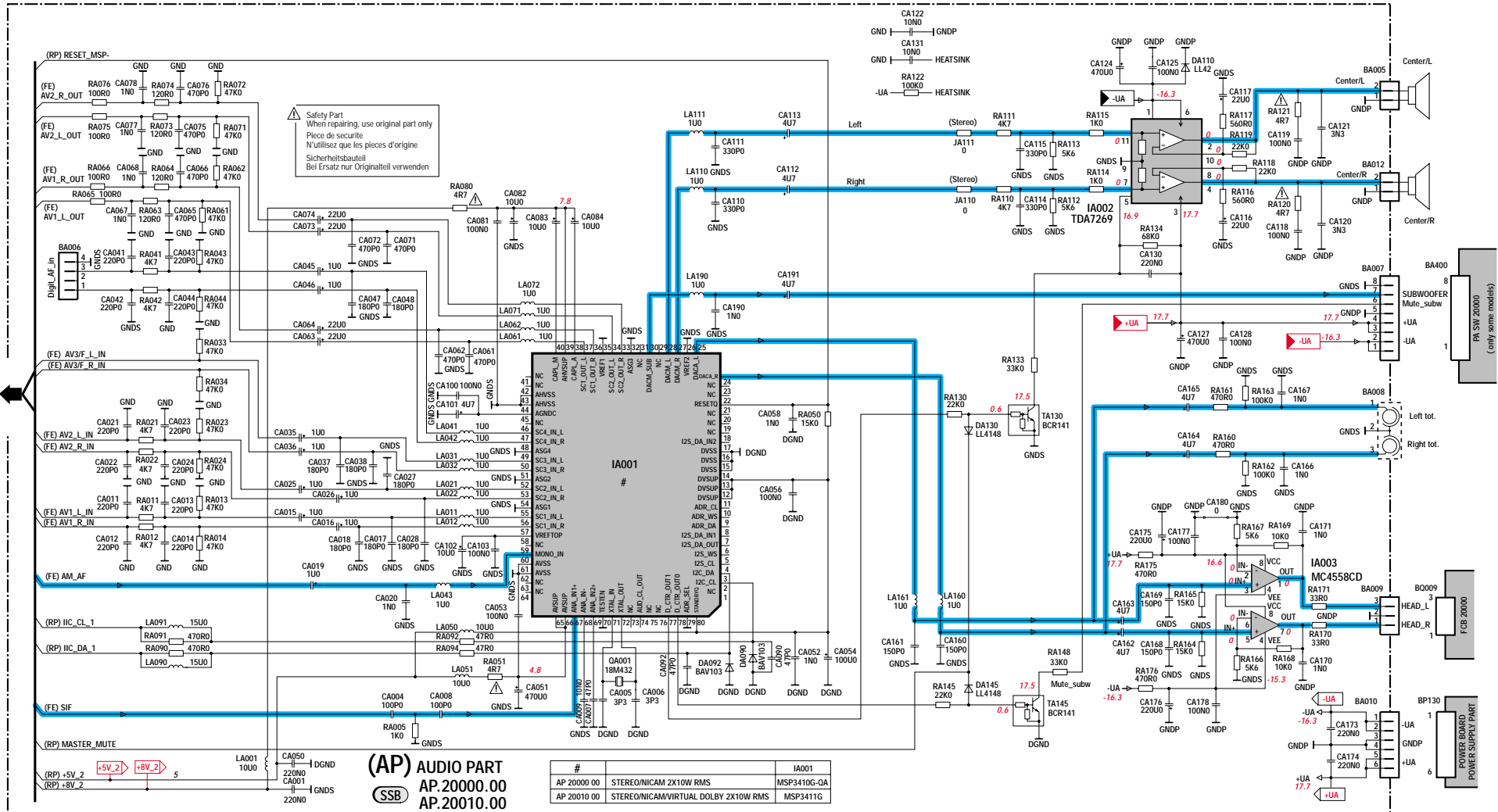
*1	UC 20000	UC 20001
IU309	MSM DK1 5412222	SA4956TJ Philips
VM	VSD	3VD3
CU397	-	X
CU399	-	X
IU390	-	X
JU002	X	-
JU005	X	-
JU006	X	-
JU009	X	-
JU011	X	-
JU012	-	X
LU385	X	-
LU386	-	X
RU387	-	X
RU388	-	X
RU389	-	X

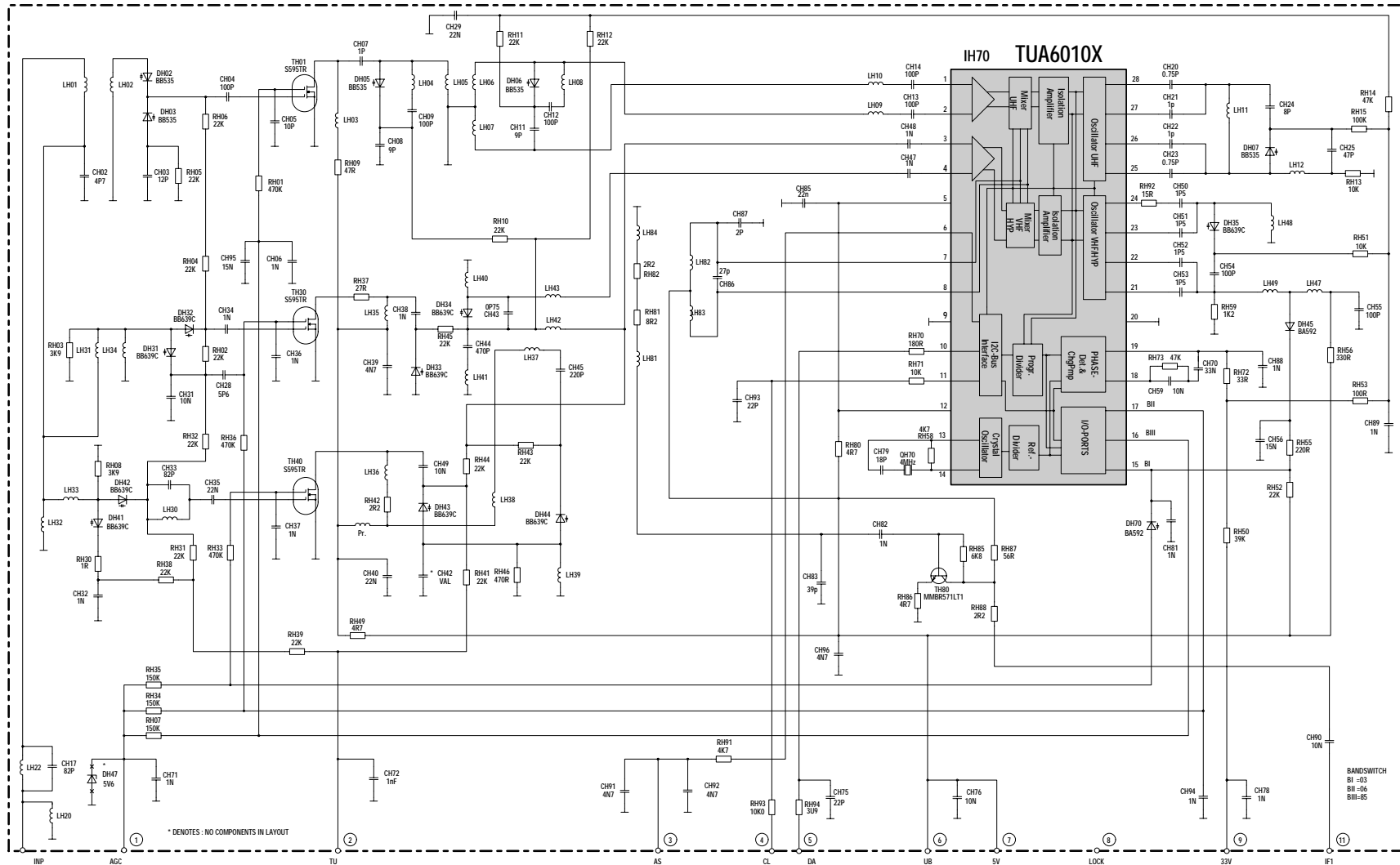
#	UC 20000 00	UC 20001 00
CU386	-	X
JU013	X	-
RU386	-	X

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

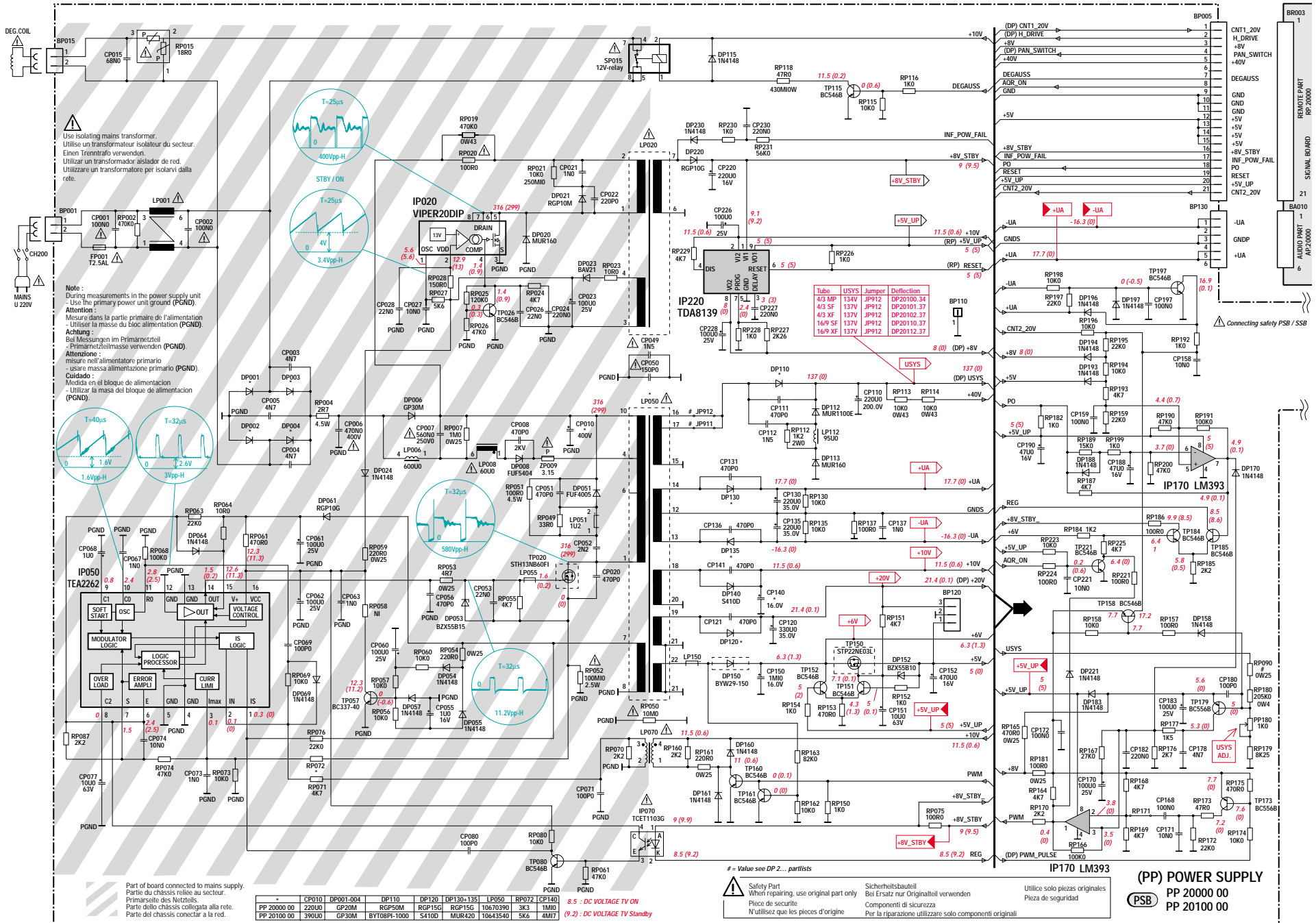
(UC) UP CONVERSION PART
 (SSB) UC.20000.00 - UC.20001.00

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

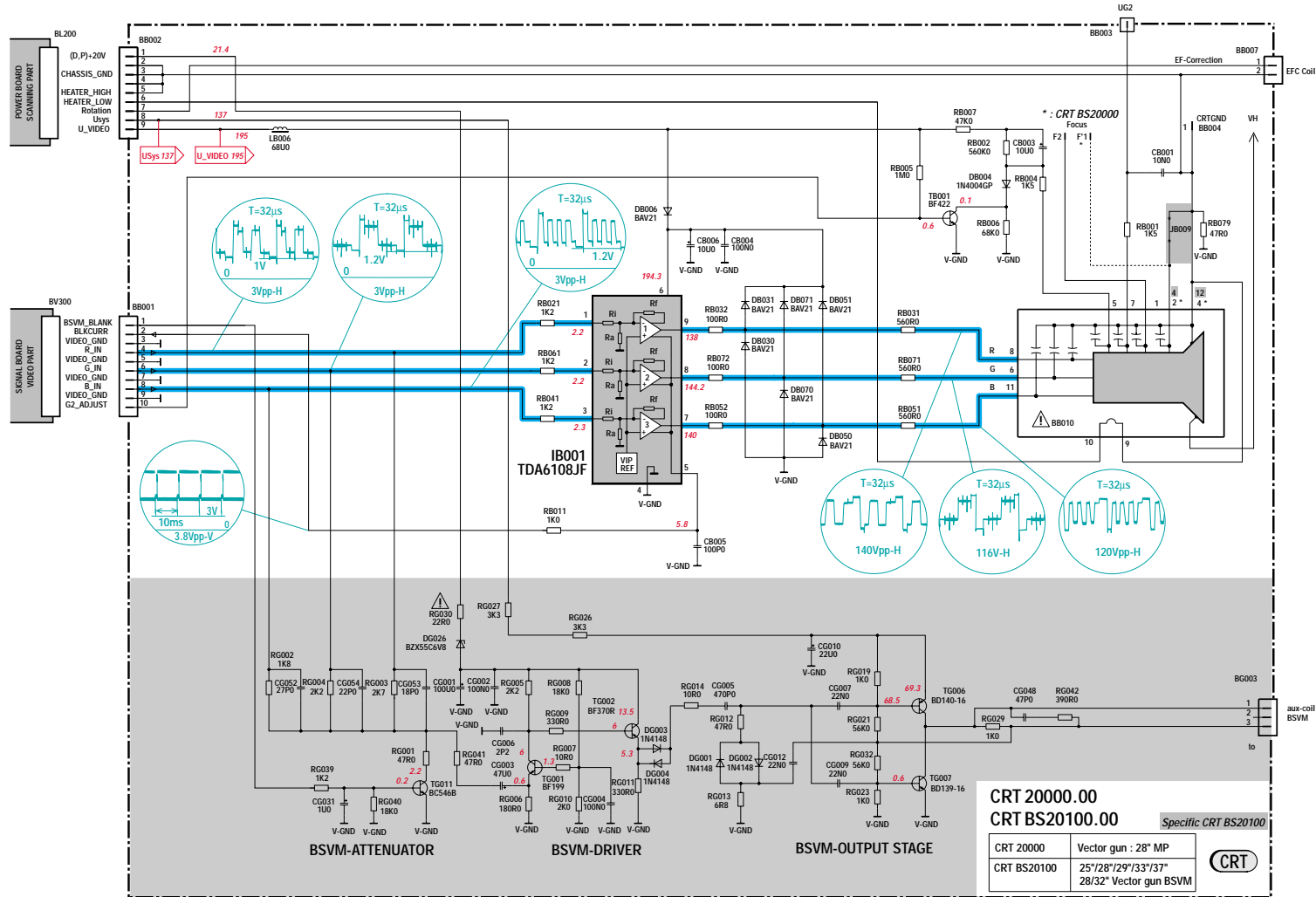




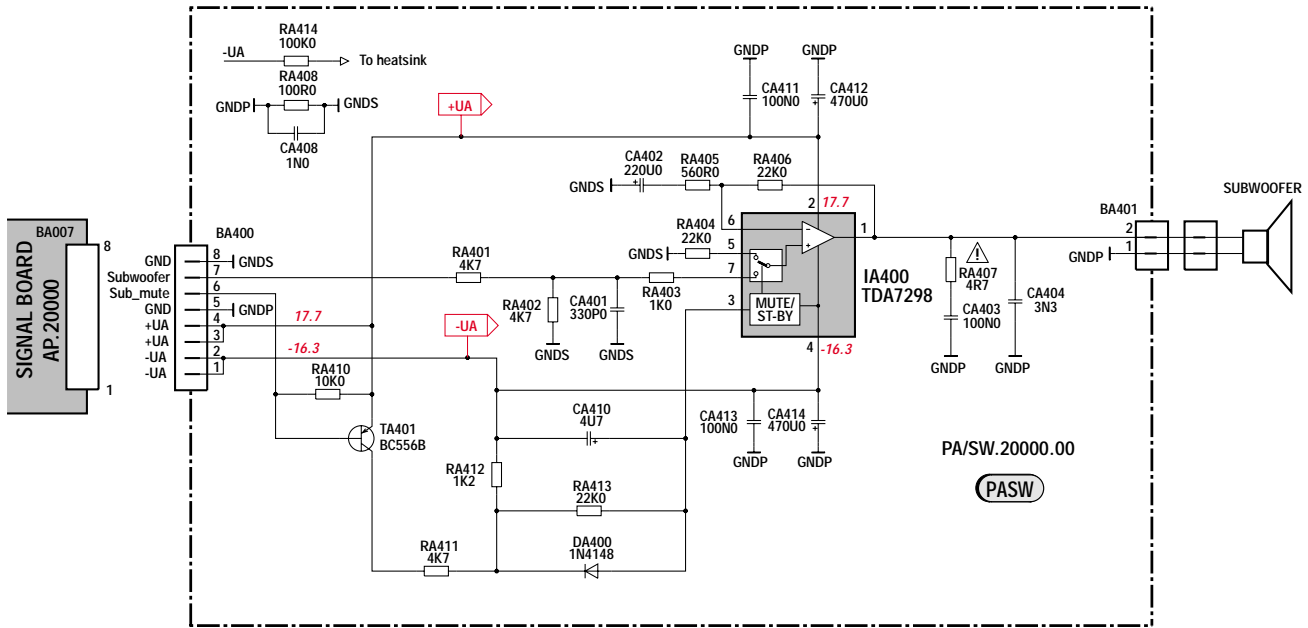
POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS
 POWER SUPPLY PART - PARTIE ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN



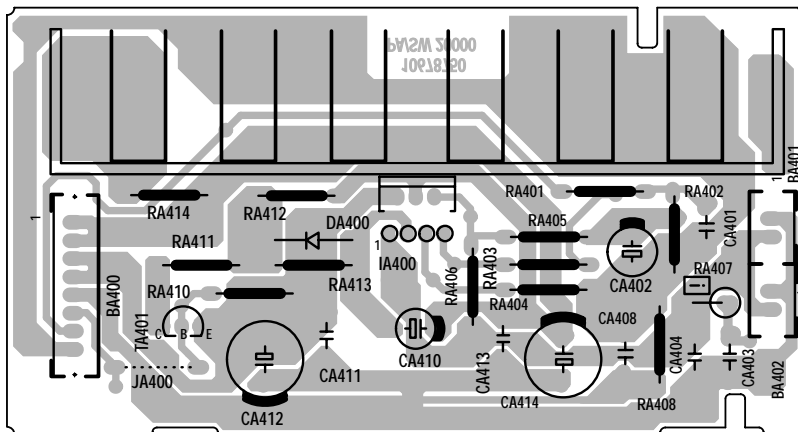
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
 CRT 20000.00 - CRT BS20100.00



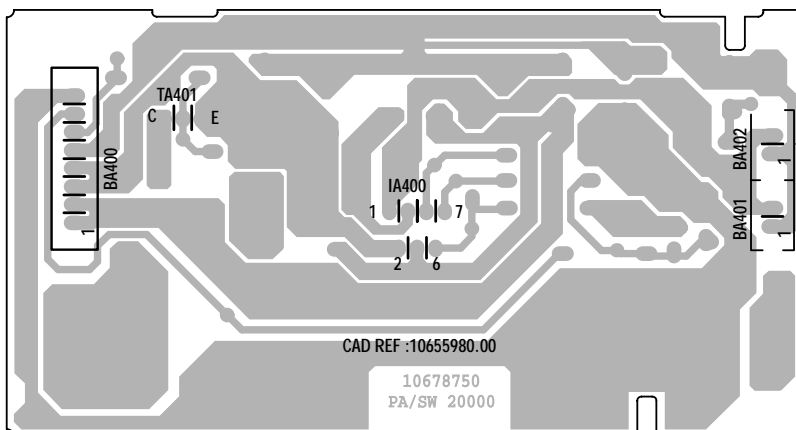
**SUBWOOFER AMPLIFIER - AMPLIFICATEUR SUBWOOFER - SUBWOOFER VERSTÄRKER -
AMPLIFICATORE SUBWOOFER - AMPLIFICADOR SUBWOOFER**



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

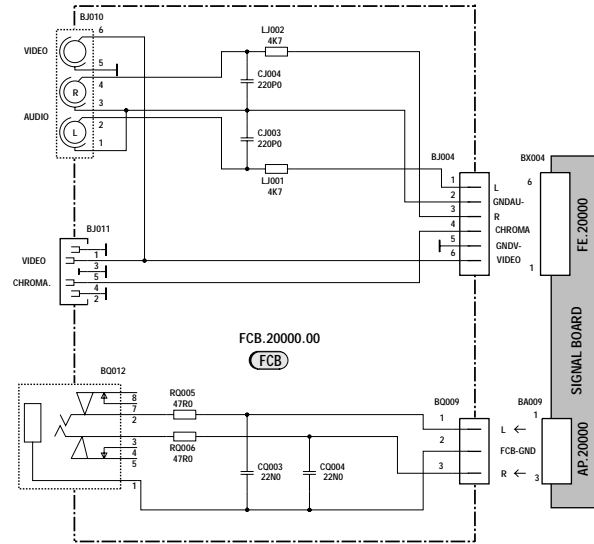


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

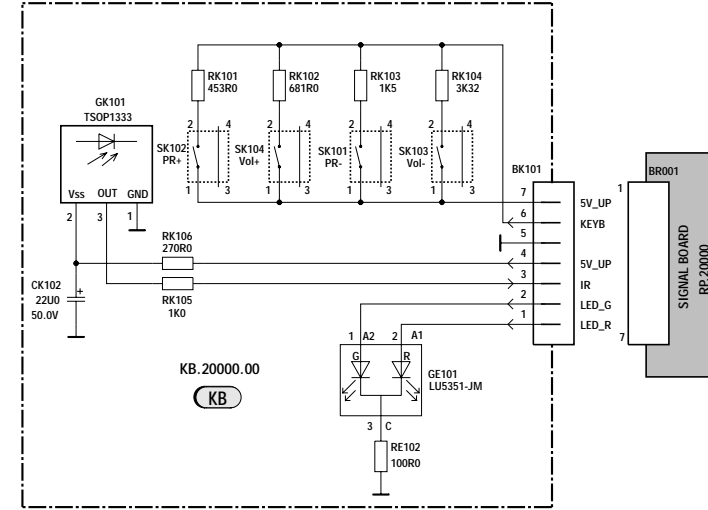


**FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER -FRONT ANSCHLUSSPLATTE -
PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL**

FCB.20000.00

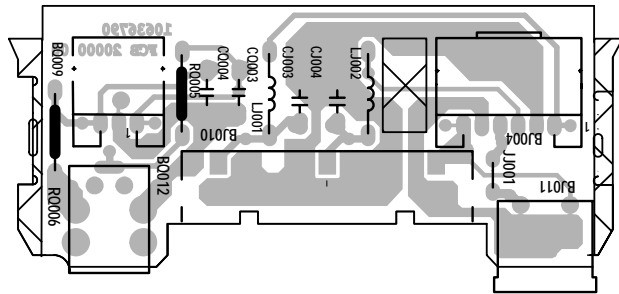


KB.20000.00

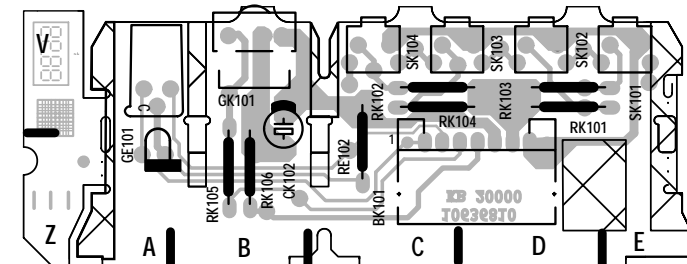


COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES

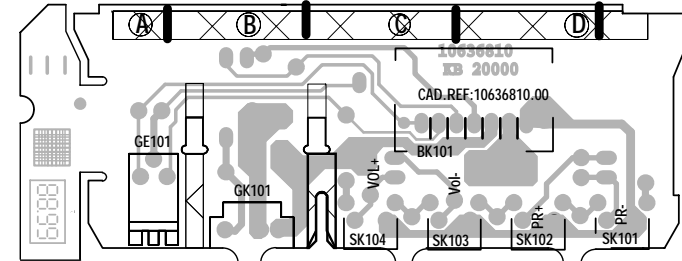
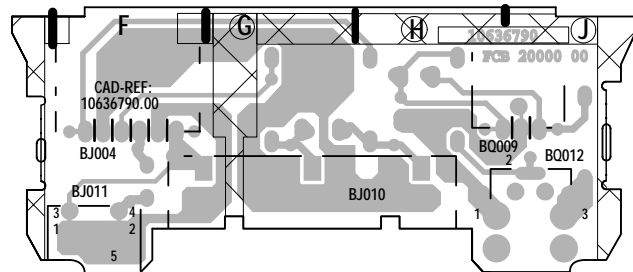
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



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

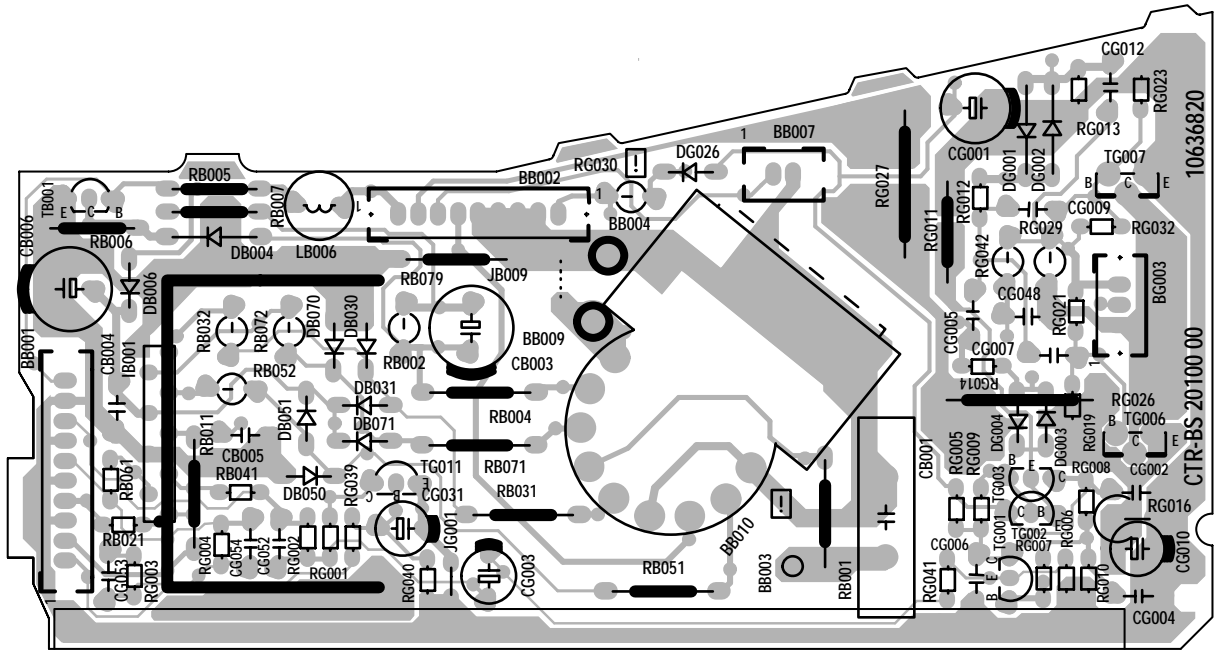


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

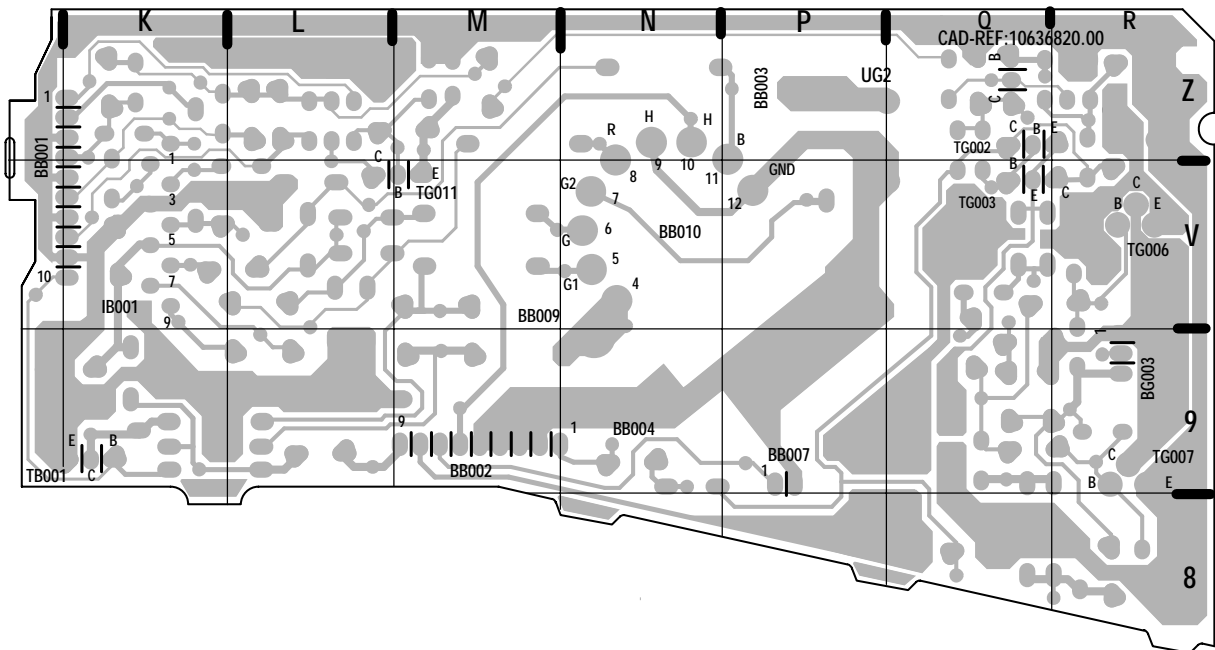


**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO -
VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO -
PLATINA AMPLIFICADOR VIDEO**

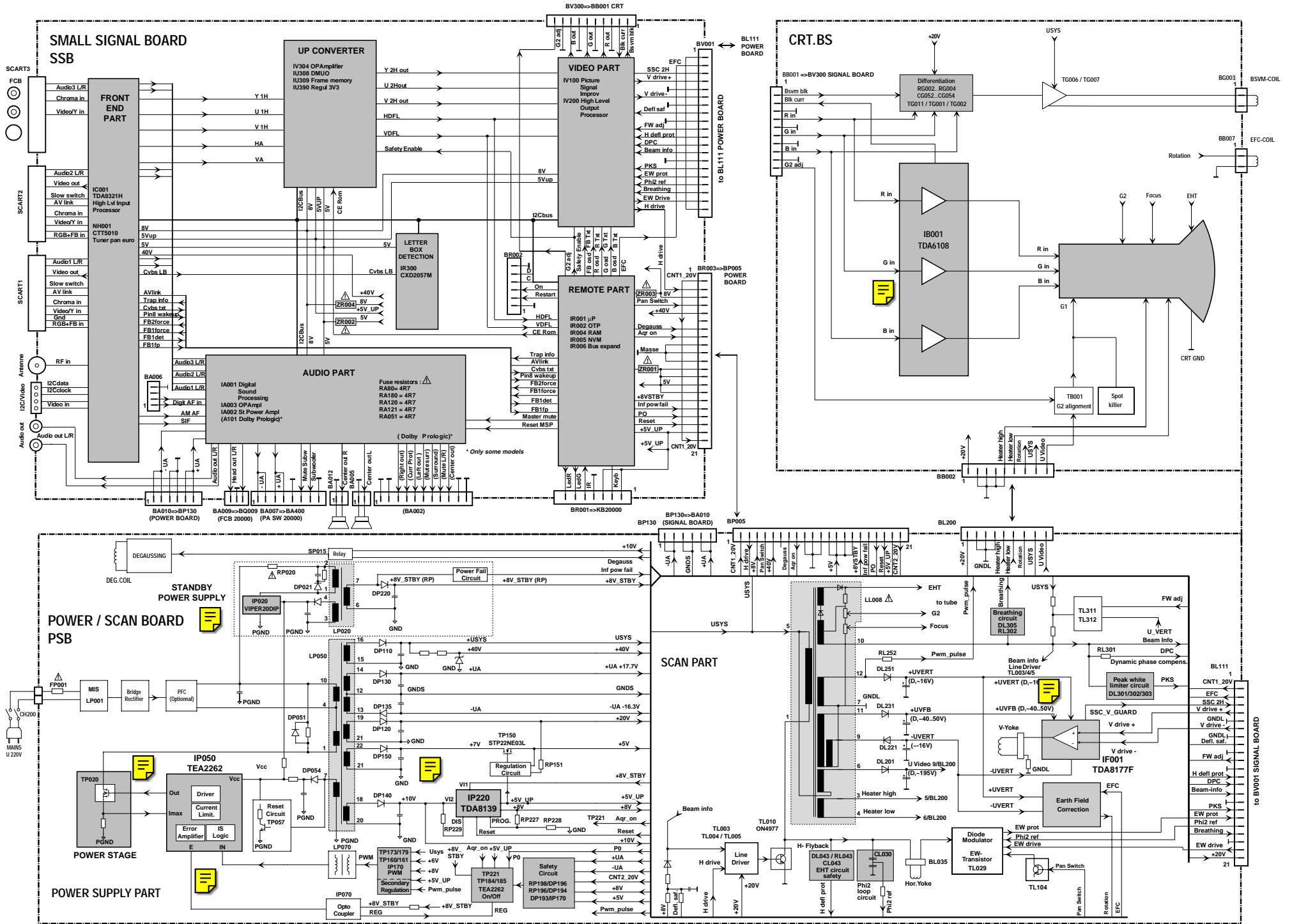
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



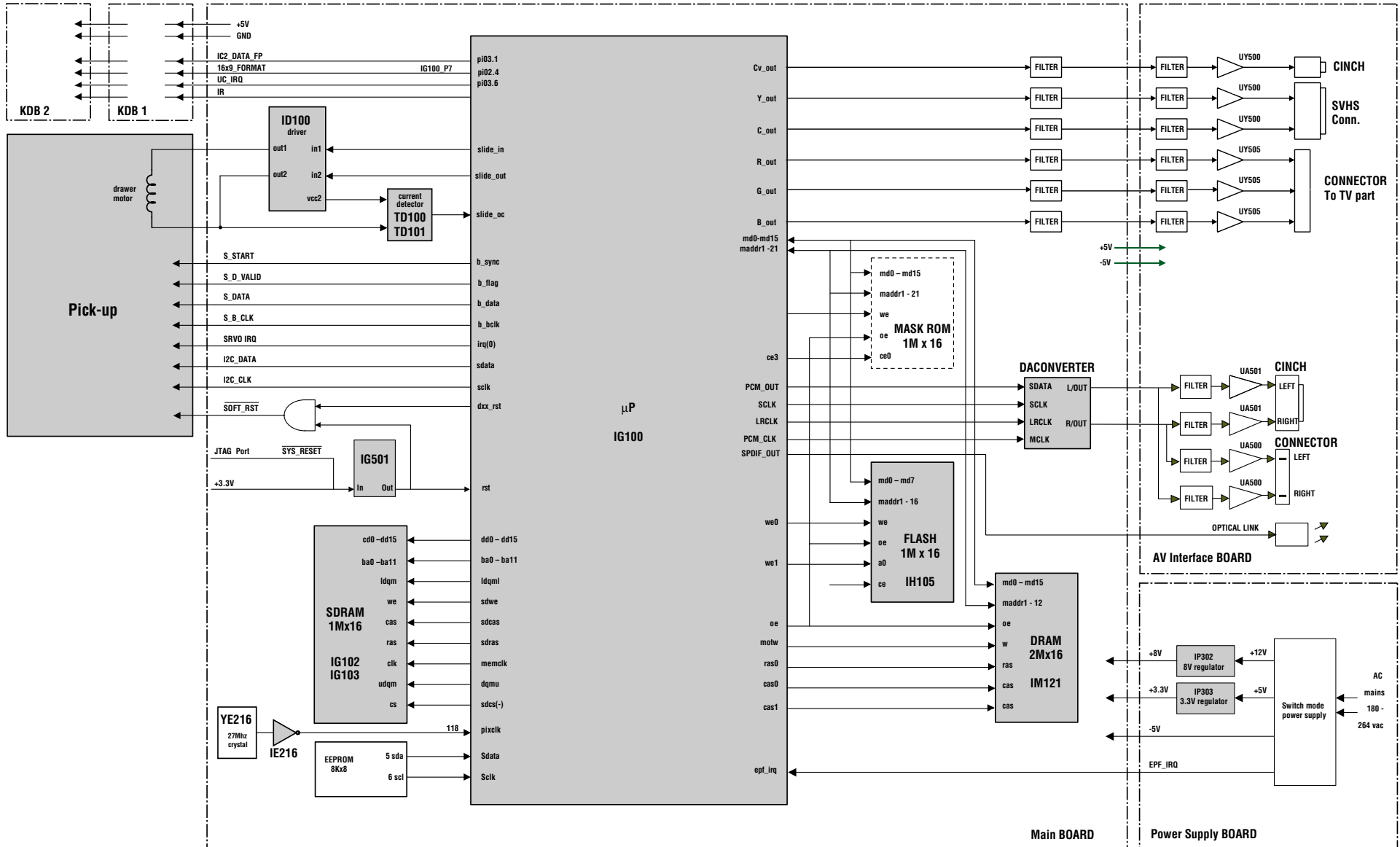
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



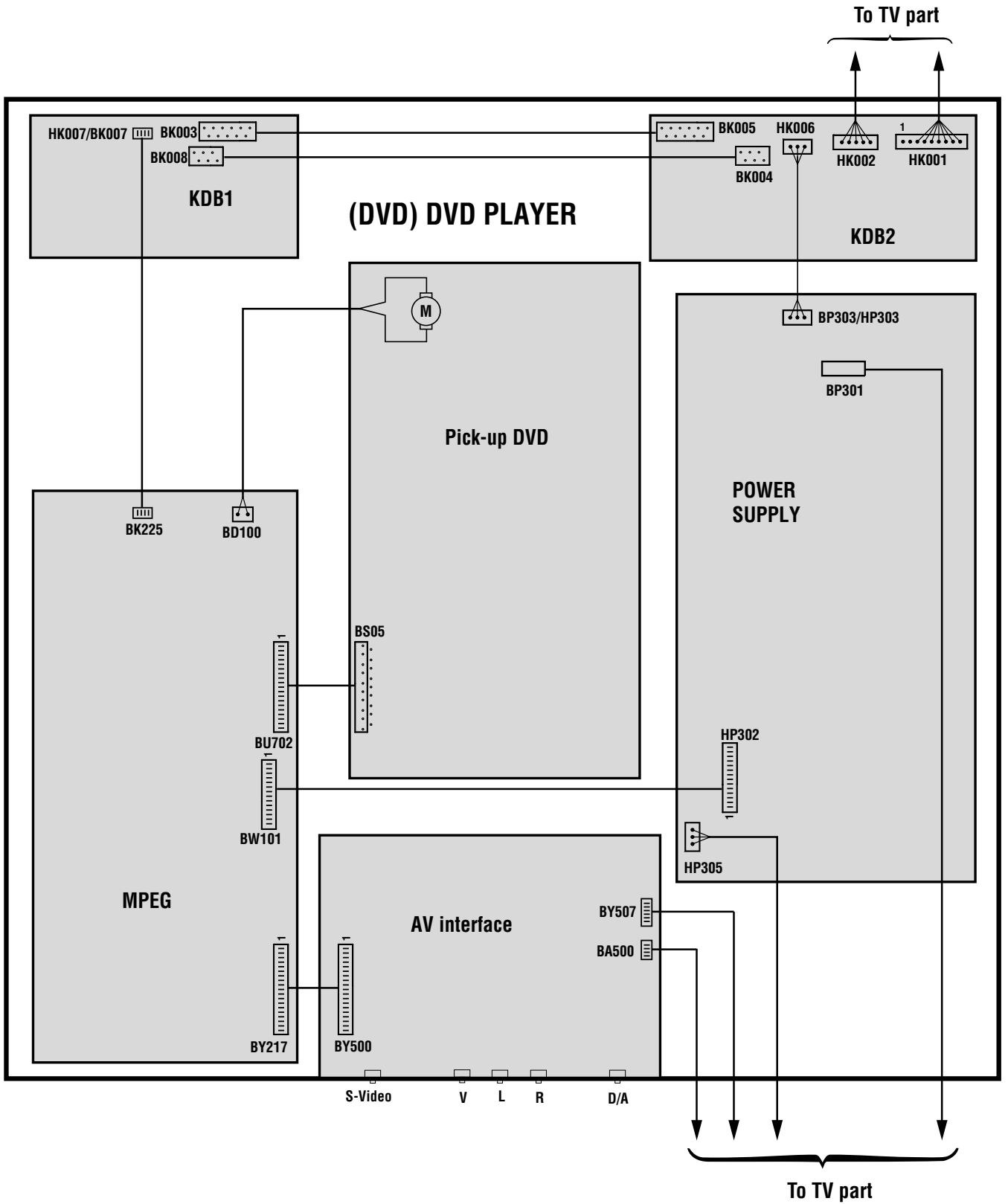
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIKD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



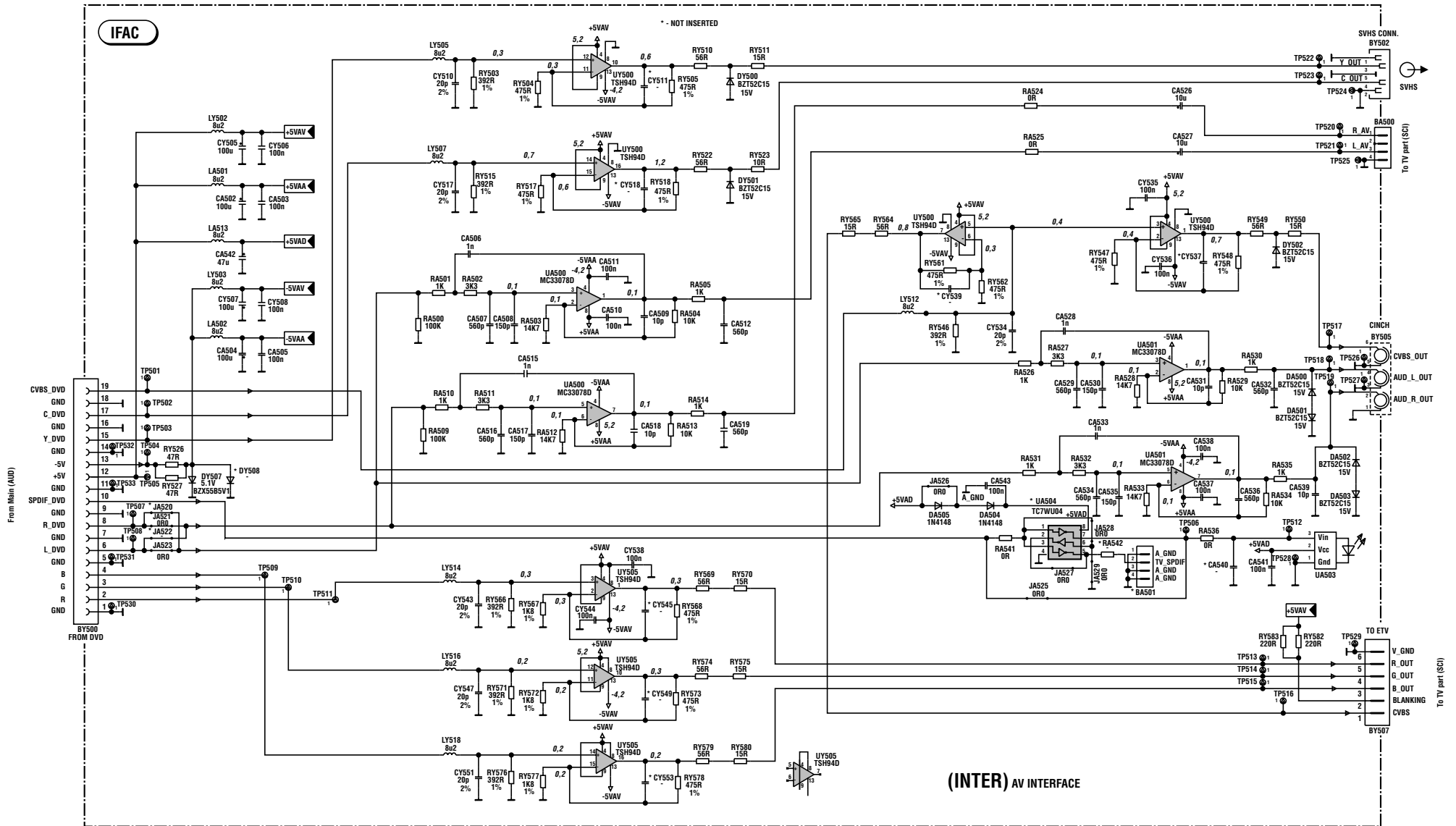
GENERAL BLOCK DIAGRAM - SYNOPTIQUE GÉNÉRAL - BLOCKSCHALTBIKD ALLGEMEIN - SCHEMA A BLOCCHI GENERALE - ESQUEMA DE BLOQUES GENERAL



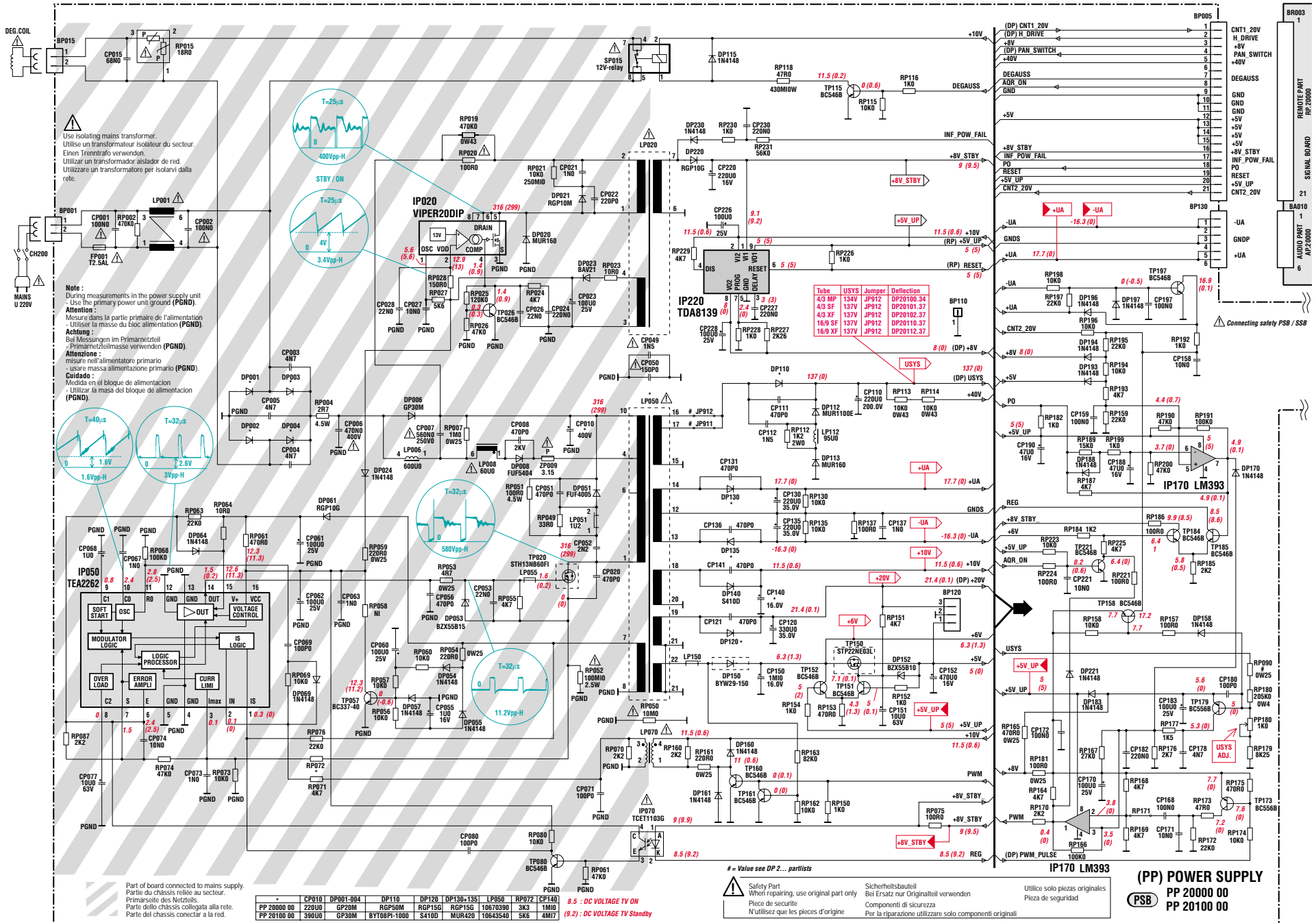
**WIRING DIAGRAM - SCHÉMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN -
 DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES**



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



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



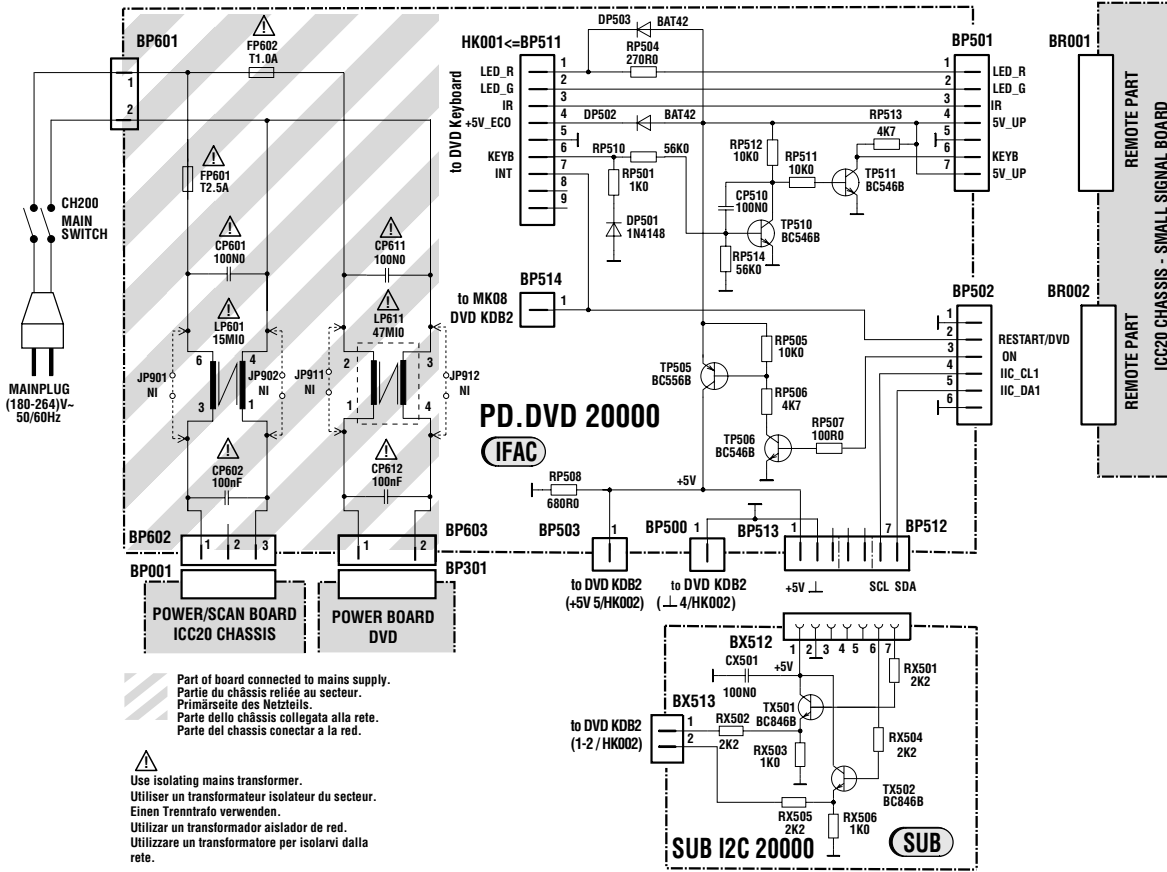
Use Isolating mains transformer.
 Utilisez un transformateur isolateur du secteur.
 Einen Trenntrafo verwenden.
 Utilizar un transformador aislador de red.
 Utilizzare un trasformatore per isolarvi dalla rete.

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).

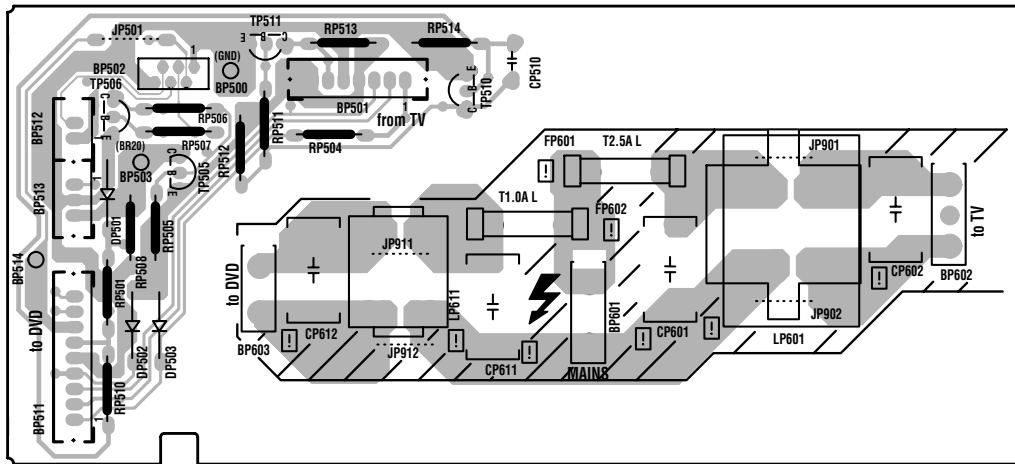
= Value see DP 2...artists
 Safety Part
 When repairing, use original part only
 Bei Ersatz nur Originalteil verwenden
 Pièce de sécurité
 N'utilisez que les pièces d'origine
 Componenti di sicurezza
 Per la riparazione utilizzare solo componenti originali
 Utilice solo piezas originales
 Pieza de seguridad

(PP) POWER SUPPLY
 PP 20000 00
 PP 20100 00

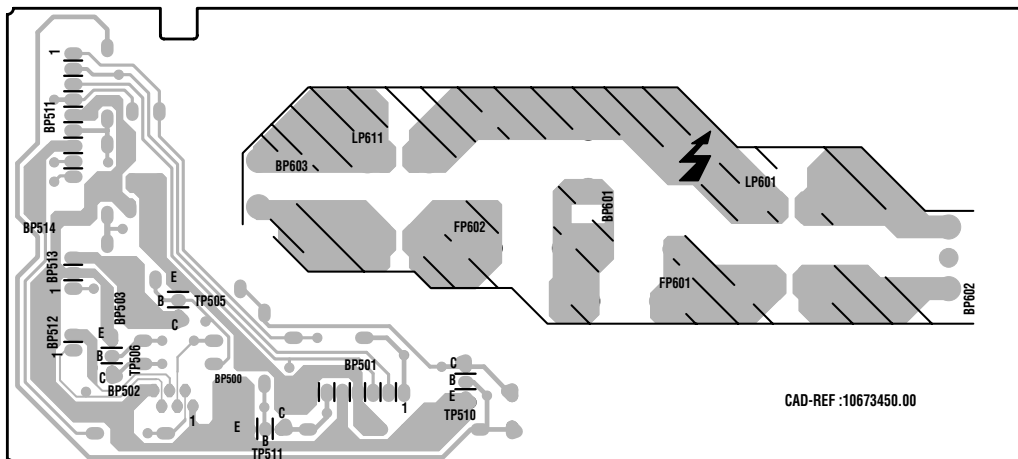
POWER DISTRIBUTION BOARD - INTERFACE SECTEUR - LEITERPLATTE SPANNUNGSVERTEILUNG PIASTRA DISTRIBUZIONE ALIMENTAZIONI - PLACA DE DISTRIBUCION DE LA ALIMENTACION



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



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



CAD-REF :10673450.00

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.
 Utilizar un transformador aislador de red.
 Utilizzare un trasformatore per isolarvi dalla rete.

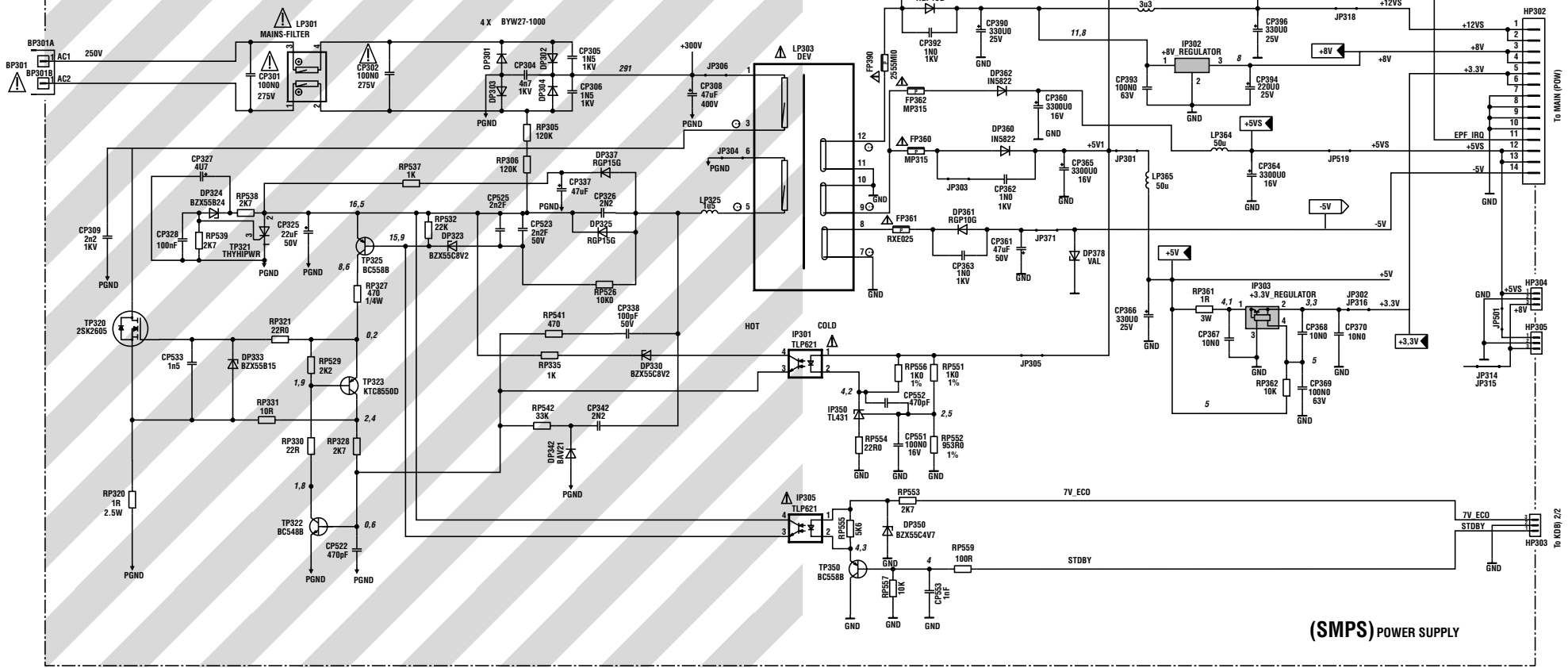
Note :
 During measurements in the power supply unit
 - Use the primary power unit ground (PGND).
Attention :
 Mesure dans la partie primaire de l'alimentation
 - Utiliser la masse du bloc alimentation (PGND).
Achtung :
 Bei Messungen im Primärnetzteil
 - Primärnetzteilmasse verwenden (PGND).
Attenzione :
 misure nel 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

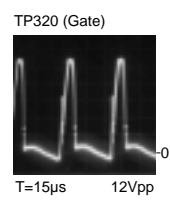
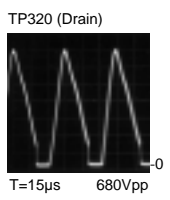
Sicherheitsbauteil
 Bei Ersatz nur Originalteile verwenden
 Componenti di sicurezza
 Per la riparazione utilizzare solo componenti originali

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.

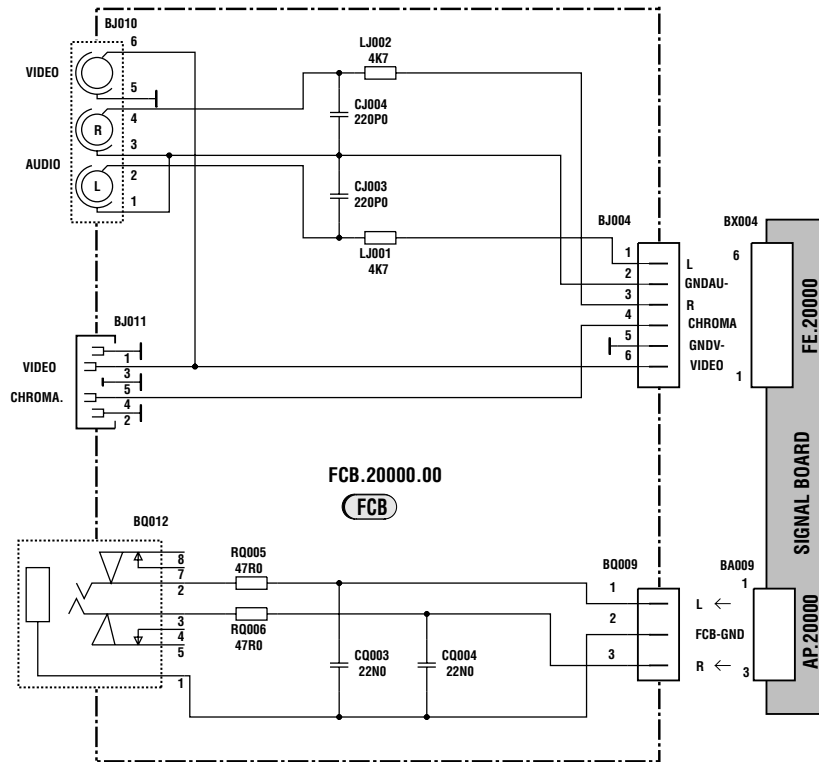


(SMPS) POWER SUPPLY

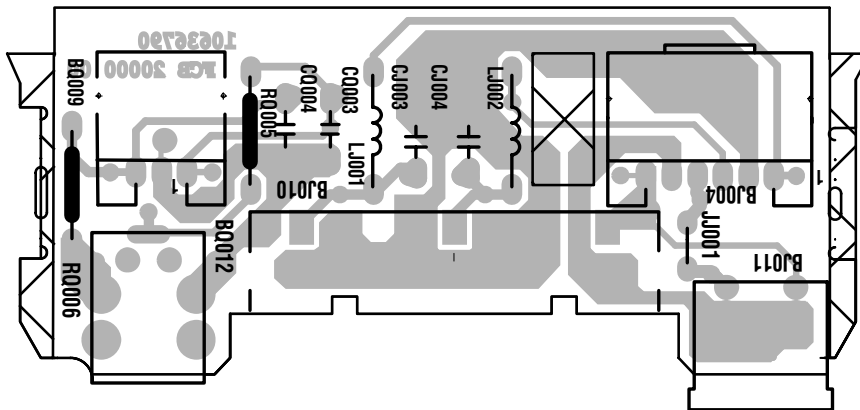


**FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU
CLAVIER -FRONT ANSCHLUSSPLATTE -
PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL**

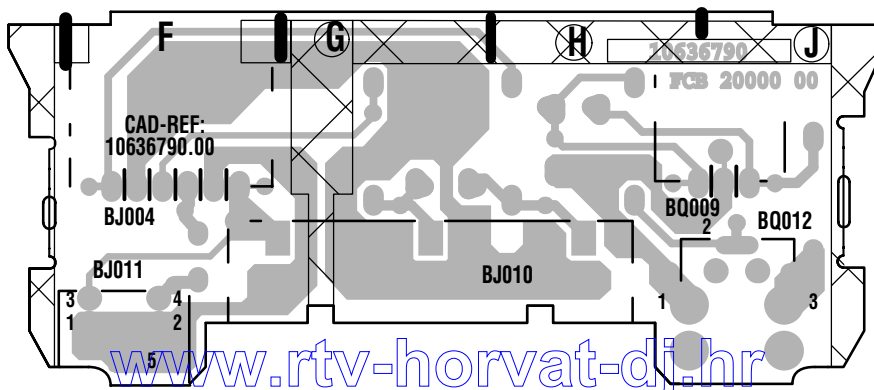
FCB.20000.00



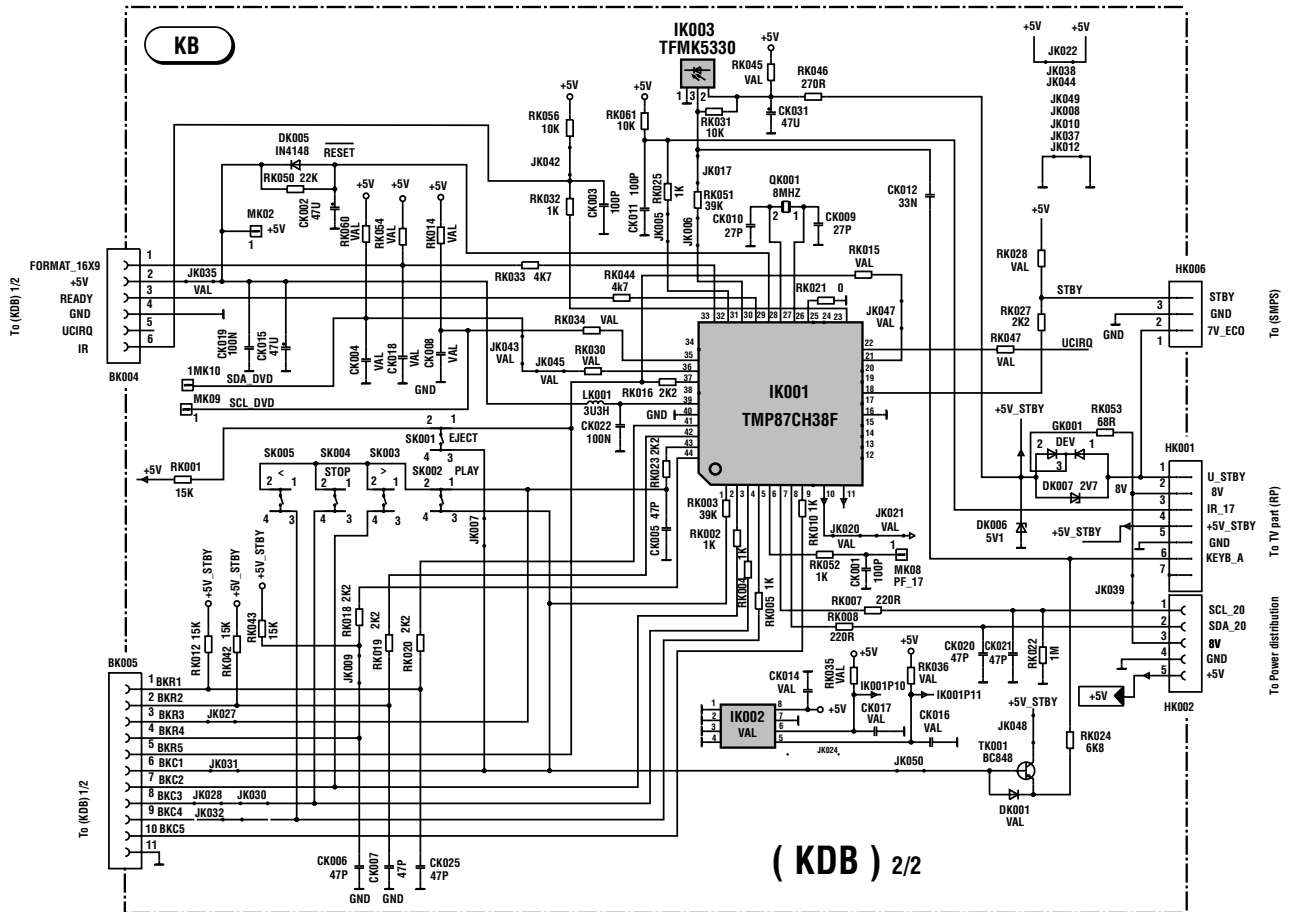
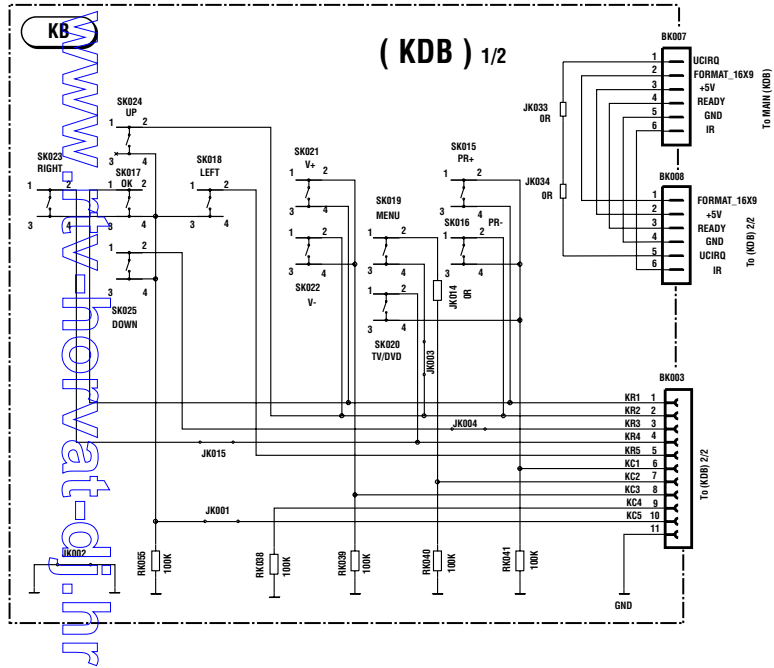
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI -
LADO COMPONENTES



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

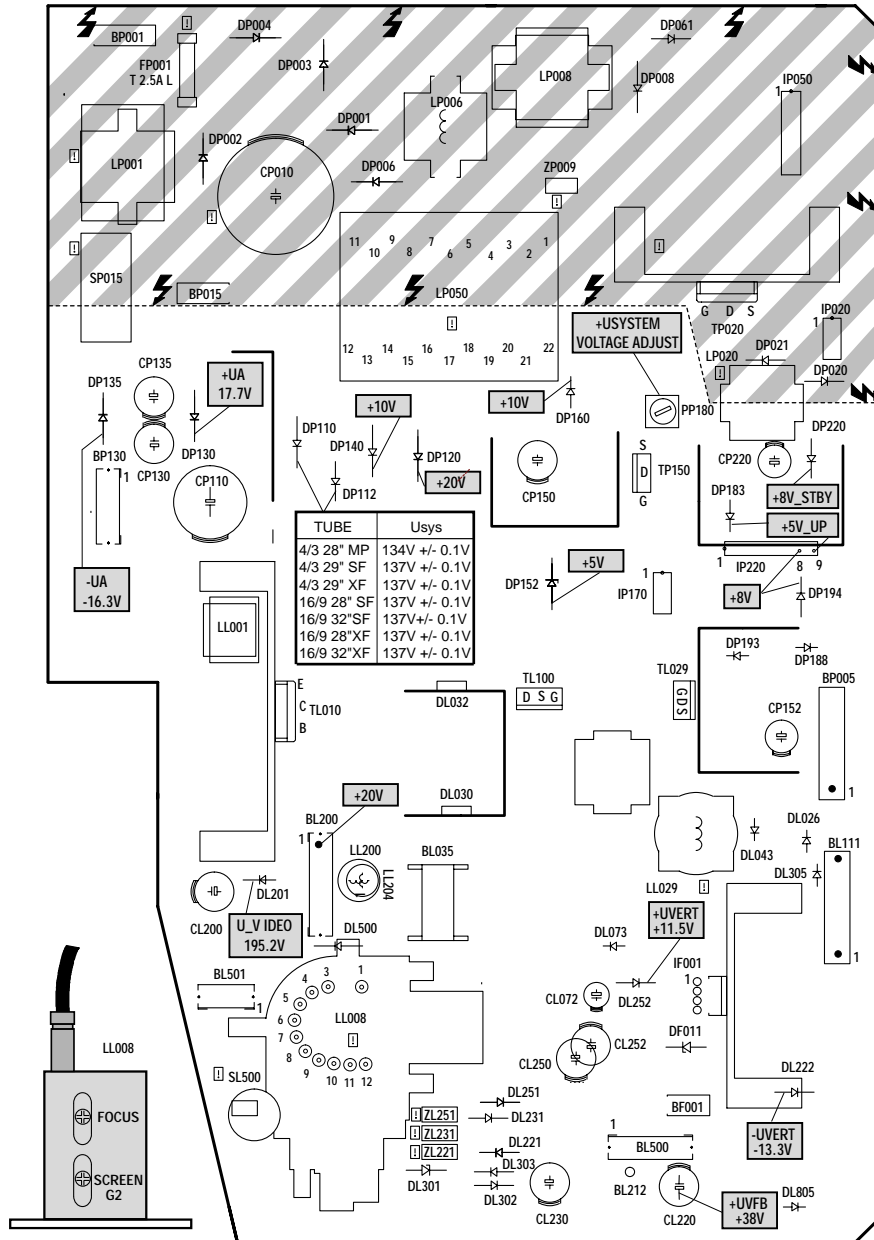



KEYBOARD SCHEMATIC DIAGRAM - SCHEMA DES CIRCUITS COMMANDES - SCHALTBILD BEDIENTEIL - SCHEMA DEI CIRCUITI TASTIERA - ESQUEMA DE LOS CIRCUITOS MANDOS









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

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES



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

U Sys	PP180	Standard TV - Settings :  +  = 50% TV to AV1 : Black test pattern	 DP 110	<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>A66EJZ011X121</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	A66EJZ011X121	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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W66EJV011X121	16/9 28" XF	JP912	137V +/- 0.1V																																	
W76EJV011X121	16/9 32" XF	JP912	137V +/- 0.1V																																	
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 SCREEN potentiometer (LL008) so that the retrace lines are just visible. - Now carefully adjust the SCREEN 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 "SCREEN" (LL008) pour apercevoir le retour des lignes. - Régler ensuite le potentiomètre "SCREEN" 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 SCREEN (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 SCREEN (LL008) per rendere visibili le ritrace sullo schermo Regolare il potenziometro SCREEN per eliminare le ritrace 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 SCREEN (LL008) hasta hacer visibles las líneas de retrazado. - Ajustar el potenciómetro SCREEN 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)** **MODO SERVIZIO (E)**

I - ENTER/EXIT SERVICE MODE - ENTREES/SORTIE DU MODE SERVICE - EIN-AUSSTIEG 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.

Note:

In service mode:

- The exit key function is re-initialized
- Clear any wake-up/standby timers
- Pin if of the sport plug has to be ignored
- AV-Link WSS Detection and letterbox detection (autoformat) have to be disabled
- Automatic standby functions, in case of no antenna signal have to be disabled
- Sharpness = middle (nominal)
- Instal Mode disabled
- Default format and zoom
- The Chassis Variator will be checked and stored

1 ACCES AU MODE SERVICE

Accès avec le clavier du téléviseur

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.

Note:

En mode service:

- Le verrouillage parental est effacé (réinitialisé)
- La programmation des heures "réveil/min" est annulée
- Pin if de la prise SCART ignorée
- AV-Link, la détection WSS et la détection letterbox ne sont pas activées
- La fonction de veille automatique en cas d'absence de signal d'antenne n'est pas validée
- Le contour est réglé à la valeur moyenne
- Le mode d'installation n'est pas pas valide
- Zoom et format ignorés
- Le type de châssis est contrôlé et mémorisé

1 EINSTIEG IN DEN SERVICE MODE

Zugriff über die Tastatur des Fernsehgeräts

Schalten Sie das Gerät mit der Fernbedienung in Standby.

Drücken Sie die VOL- Taste und dann die PR-Taste am Nebenelement 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.

Anmerkung:

Im SERVICE MODE:

- Die Funktion "Blockade Kinders" wird reinitialisiert
- Alle Ein- und Ausschaltzeitgeber gelöscht
- Die Funktion SCART- Schaltungsperrung nicht ausgewertet
- AV-Link WSS Detection und Letterbox Detection (Autoformat) sind abgeschaltet
- Die Funktion automatische Abschaltung bei fehlendem Antennensignal gestoppt
- Die Kontrast wird auf Mittelwert (normal) gesetzt
- Die Modus Installation ist deaktiviert
- Die Standardformat bzw. der Standard-Zoom-Modus gewählt
- Die Chassis-Variante wird überprüft und gespeichert

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.

Nota:

Nel service mode:

- La funzione "Bloqueo niños" es reinitializada
- Anula todos los horarios programados
- La pñella de del SCART es ignorada
- La rilevazione AV-Link WSS e rilevazione letterbox (formato) è stata disabilitata
- La funzione automatica di standby, nel caso di mancanza del segnale d'antenna, è disabilitata
- Milazzo media (normale)
- Il modo d'installazione è disabilitato
- Il formato ignorato e zoom
- Le varianti del telaio verranno controllate e memorizzate

1 ACCESO AL MODU SERVICIO

Acceso panel control TV

Con el TV encendido, apagarlo con la tecla "Standby" del telemando. Asegurarse 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.

Nota:

En modo servicio:

- La función "Bloqueo niños" es reinitializada
- Anula todos los horarios programados
- La pñella de del SCART es ignorada
- La detección de AV-Link WSS y "todo button" (autoformat) se desactiva
- El apagado automático en caso de ausencia de señal de antena es desactivado
- La nitidez se ajusta al punto medio
- El modo instalación es desactivado
- El zoom y formato ignorados
- El tipo de chassis será comprobado y memorizado

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 validés)

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

2 VORÜBERGEHENDES VERLASSEN DES SERVICE MODE

Auf der Fernbedienung EXIT drücken.

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

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

2 USCITA TEMPORANEA DAL SERVICE MODE

Premere Exit sul telecomando.

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

È possibile rientrare nel Menu Service tramite il pulsante Blue.

2 SALIDA TEMPORAL DEL MODU SERVICIO

Pulse Exit en el mando a distancia.

Con el botón Menu puede acceder al menú de uso cotidiano. (Télexto 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

Mémo commande 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 écrites en NVM.

3 ENDGÜLTIGES VERLASSEN DES SERVICE MODES

Fernbedienung TV Bedientfeld Netzschalter

Wenn der Cursor im Hauptmenü des Service-Modus 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-Modus 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 Modo 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 MODU 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

Select option / Option auswählen / Selektieren / Optione / Seleccionar / Optione

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

Navigation up Navigation down

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

Select option / Option auswählen / Selektieren / Optione / Seleccionar / Optione

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

Navigation up Navigation down

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 / Hexadecimales / Valore esadecimale / Valor hexadecimal

Set value

Display >+ NVM value Display == < NVM value

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

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

Select option / Option auswählen / Selektieren / Optione / Seleccionar / Optione

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

5 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHERN DER WERTE - MEMORIZZAEZ 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.

Dopo la regolazione 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'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

Recevoir composition / Composition de Récepteur / Aufbau des Empfängers / Composizione del ricevitore / Composición del receptor

Software Version / Version software / Software Version / Versión software / Versión software

Counter / Zähler / Compteur / Contador / Contatore

Self Ver. / V.00-5 / Caric. / WSS-V / 0013 / Serial No. / AM456789

Serial Number / N° de série / Numéro série / N° serie / Alignment / Alignement / Allineamento / Regolazione / Alineación

ILUBE / SETUP / GEOMETRY / VIDEO / # / ERROR

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

Config. WSS_V

Character 1: Tube type: "A" = A43, "W" = W169

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 Dabby, "D"=Dabby prologic

Character 5: Noise Reduction upconversion memory detected: "N" = detected, "-" = not

Character 6: not used / spare

Character 7: not used / spare

SERIAL N°: AT5...

Character 1: Factory, A= August, B= Barcelona, Z= Zyrardov

Character 2: Year, P= 1986, A= 1987 etc. (International code UTEC00511)

Character 3: Month, from 1= January to 9=September, 0=October, N=November

Character 4: Day=December

Character 4-9: Serial N°.

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 hexadécimal.

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

ADC: Take Over IF PLL_VCO

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

ERROR CODES

GB

- 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)

F

- 10 Fonction clef enfant active
- 11 Mode timer
- 12 Audio MSP ne répond plus
- 13 Audio-Dpl ne répond plus
- 14 TDA9330H ne répond plus
- 15 TDA9321 ne répond plus
- 16 DMU0 ne répond plus
- 17 SAA4956 ne répond plus
- 18 TDA9178 ne répond plus
- 19 Tuner ne répond plus
- 20 I2C-bus bloqué
- 21 I2C-bus data forcé au niveau bas
- 23 I2C-bus clock forcé au niveau bas
- 25 Le "5V commuté" n'est pas disponible
- 26 Tube ne chauffe pas a temps
- 27 Plus que 3-fois la déflexion a détecté une "protection"
- 28 Sécurité déviation verticale active
- 29 Sécurité déviation horizontale active
- 31 Appel par pointeur non alloué
- 32 Logiciel-timer non disponible
- 34 NVM (mémoire) ne répond plus
- 35 5V et 8V non disponibles
- 36 NVM adresse erronée
- 37 Niveau incorrect sur la ligne NMI
- 38 Pile pleine - Il n'y a plus de RAM disponible pour l'opération requise
- 39 I2C-bus data non récupérable
- 41 Détection mauvaise alimentation TDA9178
- 42 Erreur de reset TDA9320
- 43 Erreur de reset TDA9330
- 44 Problème bit NRF (information usine seulement)
- 45 Problème bit FLS (information usine seulement)
- 46 Problème bit NHF (information usine seulement)
- 47 Problème bit NDF (information usine seulement)
- 48 Problème bit XPR (information usine seulement)
- 49 Problème avec les bits SXA...D (information usine seulement)

D

- 10 Kindersicherung aktiv
- 11 Weckerfunktion aktiv
- 12 Audio-MSP antwortet nicht
- 13 Audio-Dpl antwortet nicht
- 14 TDA9330H antwortet nicht
- 15 TDA9321 antwortet nicht
- 16 DMU0 antwortet nicht
- 17 SAA4956 antwortet nicht
- 18 TDA9178 antwortet nicht
- 19 Tuner antwortet nicht
- 20 I2C Bus ist blockiert
- 21 I2C Bus Data ist immer L
- 23 I2C Bus Clock ist immer L
- 25 Geschaltete 5V nicht vorhanden
- 26 Bildrohr ist nicht rechtzeitig aufgeheizt
- 27 Schutzschaltung hat dreimal ausgelöst
- 28 Vertikal-Schutzschaltung ist aktiv
- 29 Horizontal-Schutzschaltung ist aktiv
- 31 Softwarefehler (nur für Produktionsstätten)
- 32 Softwarefehler (nur für Produktionsstätten)
- 34 NVM (EEPROM) antwortet nicht
- 35 5V und 8V nicht vorhanden
- 36 Softwarefehler (nur für Produktionsstätten)
- 37 Unerwarteter Zustand auf NMI-Leitung
- 38 Softwarefehler (nur für Produktionsstätten)
- 39 I2C Bus Data-Leitung nicht reaktivierbar
- 41 Power down detection TDA9178 (PSI)
- 42 Problem während des Resets TDA9320 (HIP)
- 43 Problem während des Resets TDA9330 (HOP)
- 44 NRF Bit Problem (nur für Produktionsstätten)
- 45 FLS Bit Problem (nur für Produktionsstätten)
- 46 NHF Bit Problem (nur für Produktionsstätten)
- 47 NDF Bit Problem (nur für Produktionsstätten)
- 48 XPR Bit Problem (nur für Produktionsstätten)
- 49 Problem mit Bits SXA...D (nur für Produktionsst.)

I

- 10 Funzione child lock attiva
- 11 Modo timer
- 12 MSP-Audio non risponde
- 13 DPL-Audio non risponde
- 14 TDA9330H non risponde
- 15 TDA9321 non risponde
- 16 DMU0 non risponde
- 17 SAA4956 non risponde
- 18 TDA9178 non risponde
- 19 Tuner non risponde
- 20 I2C Bus è bloccato
- 21 I2C Bus data forzata bassa
- 23 I2C Bus clock forzata bassa
- 25 Tensione 5V commutata non disponibile
- 26 Tubo non trasmette informazione caldo entro il tempo stabilito
- 27 Deflessione rileva>3 volte protezione
- 28 Protezione deflessione verticale attiva
- 29 Protezione deflessione orizzontale attiva
- 31 Chiamata al pointer non assegnata
- 32 Logica timer non disponibile
- 34 L'integrato NVM non risponde
- 35 5V e 8V non disponibili
- 36 Indirizzamento NVM errato
- 37 Livello incorretto sulla linea NMI
- 38 Pila piena - RAM non disponibile per l'operazione richiesta
- 39 Linea I2C Bus non recuperabile
- 41 Rilevazione mancata alimentazione el TDA9178 (PSI)
- 42 Errore di reset TDA9320 (HIP)
- 43 Errore di reset TDA9330 (HOP)
- 44 Problema di bit NRF (informazione solo per fabbrica)
- 45 Problema di bit FLS (informazione solo per fabbrica)
- 46 Problema di bit NHF (informazione solo per fabbrica)
- 47 Problema di bit NDF (informazione solo per fabbrica)
- 48 Problema di bit XPR (informazione solo per fabbrica)
- 49 Problema con bit SXA...D (informazione di fabbrica)

E



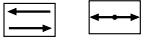
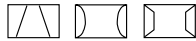

- 10 Función "bloqueo niños" activa
- 11 Modo "timer" activado
- 12 El procesador de audio MSP no responde
- 13 El DPL de audio no responde
- 14 El TDA9330H no responde
- 15 El TDA9321 no responde
- 16 El DMU 0 no responde
- 17 El SAA4956 no responde
- 18 El TDA9178 no responde
- 19 El sintonizador no responde
- 20 El bus I2C está bloqueado
- 21 La línea de datos del bus I2C forzada a nivel bajo
- 23 La línea clock del bus I2C forzada a nivel bajo
- 25 Faltan los +5V conmutados
- 26 El TRC no se calienta en el tiempo establecido
- 27 La deflexión detecta una protección > de 3 veces
- 28 Seguridad de la deflexión vertical activada
- 29 Seguridad de la deflexión horizontal activada
- 31 El puntero no puede encontrar la posición solicitada
- 32 Una solicitud de "timer" no está disponible
- 34 La NVM no responde
- 35 Faltan los 5V y los 8V
- 36 Dirección errónea solicitada por el bus
- 37 Encontrado un nivel inesperado en la línea NMI
- 38 Pila llena. No queda RAM disponible para la operación solicitada
- 39 Línea de datos del bus I2C no recuperable
- 41 Detección de fallo en alimentación TDA9178 (PSI)
- 42 Error de reset en el encendido TDA9320 (HIP)
- 43 Error de reset en el encendido TDA9330 (HOP)
- 44 Fallo en el bit NRF (información sólo para fábrica)
- 45 Fallo en el bit FLS (información sólo para fábrica)
- 46 Fallo en el bit NHF (información sólo para fábrica)
- 47 Fallo en el bit NDF (información sólo para fábrica)
- 48 Fallo en el bit NDF (información sólo para fábrica)
- 49 Fallo en los bits SXA...D (información sólo para fábrica)

GEOMETRY MODE ALIGNMENT

4/3 picture tube

A ICC20 4/3 set needs a geometry alignment only in the 4/3 Zoom 0 mode. All other formats and zoom mode are calculated.
 Un chassis ICC20 4/3 ne nécessite des réglages de géométrie que dans le mode 4/3 zoom 0. La géométrie des autres formats et zoom est calculée.
 Beim Chassis ICC20 4/3 ist ein Geometrie-Abgleich nur im Bildformat 4/3 Zoom 0 notwendig. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.
 Il telaio ICC20 4/3 richiede l'allineamento solo nel formato 4/3 zoom 0. Tutti gli altri formati zoom sono calcolati.
 Un TV ICC20 4/3 sólo necesita ajustar la geometría en modo 4/3 Zoom 0. Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

<p>4 / 3 standard mode zoom 0</p>		<p style="text-align: center;">Overscan V=107% , H=107%</p> <ol style="list-style-type: none"> 1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity  <ol style="list-style-type: none"> 3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  <ol style="list-style-type: none"> 4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,  <ol style="list-style-type: none"> 5-Adjust EW Symmetry and Horizontal parallelogram 
--	---	--

16/9 picture tube

A ICC20 16/9 set needs a complete geometry alignment in the 16/9 Zoom 0 mode and additionally an alignment of H-amplitude (104%), EW-Amplitude, H-position and EW-trapezium in Cinerama mode (if fitted). All others formats and zoom mode are calculated.

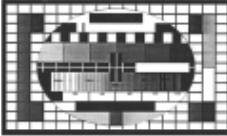
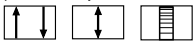

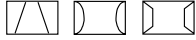

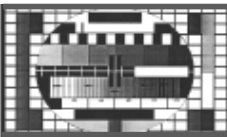


Un chassis ICC20 16/9 ne nécessite un alignement complet des réglages de géométrie que dans le mode 16/9 zoom 0 et en outre des réglages de H-amplitude (104%), EW-Amplitude, H-position et EW-trapèze en mode Cinérama (si les circuits correspondants sont insérés). La géométrie des autres formats et zoom est calculée.

Beim Chassis ICC20 16/9 ist ein vollständiger Geometrie-Abgleich nur im Bildformat 16/9 Zoom 0 notwendig. Wenn das Bildformat Cinerama verfügbar ist, müssen für diesen H-Amplitude (104%), EW-Amplitude, H-Position und EW-Trapezium abgeglichen werden. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.

Il telaio ICC20 16/9 richiede l'allineamento nel formato 16/9 zoom 0 e un allineamento supplementare dell' Ampiezza H (104%), Ampiezza EW Posizione H e Trapezio EW nel modo Cinerama. Tutte le regolazioni negli altri formati zoom sono calcolate.

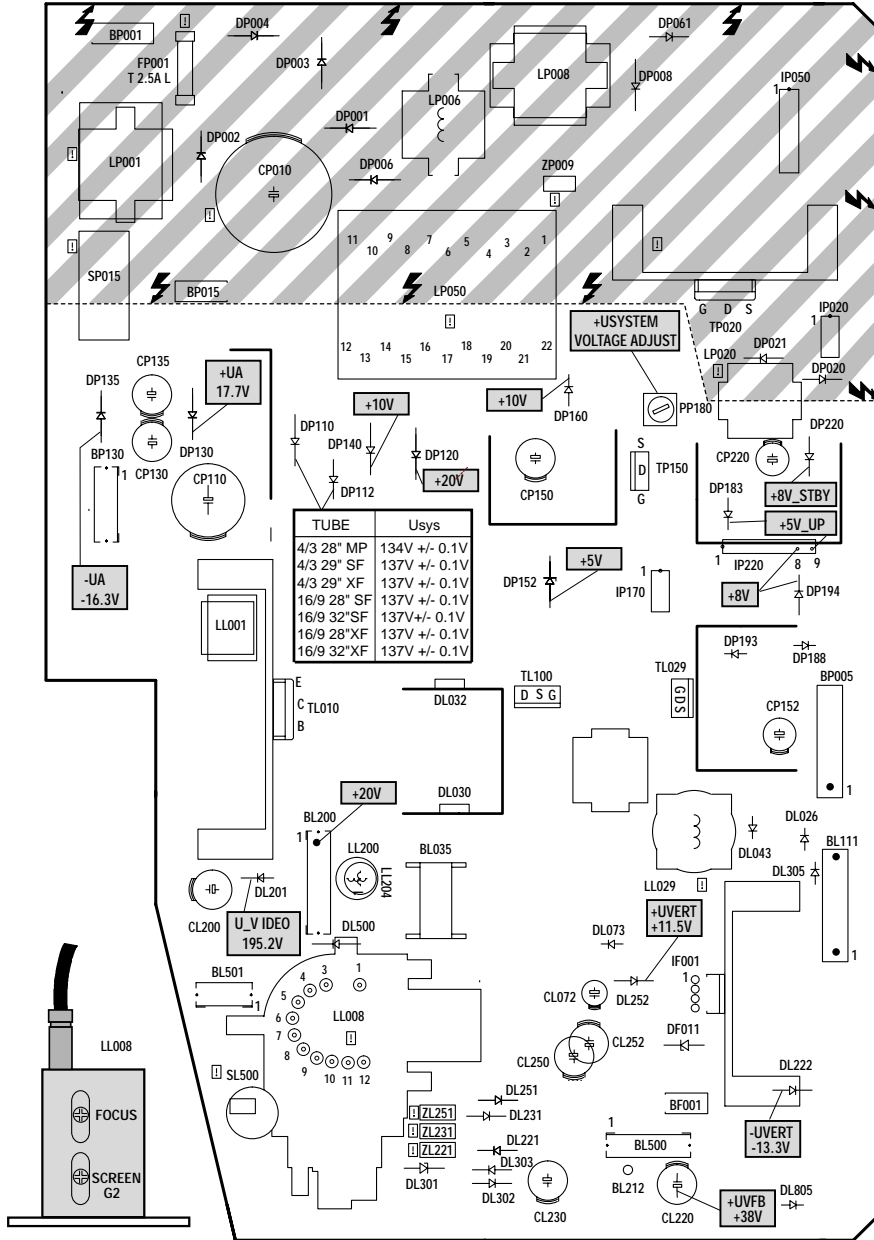
Un TV ICC20 16/9 necesita un ajuste completo de geometría en el modo 16/9 zoom 0 y además un ajuste de la anchura horizontal (104%), posición horizontal y amplitud / trapezio EW en modo "Cinerama" (si está incorporado). Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

<p>16 / 9 standard mode zoom 0</p>		<p style="text-align: center;">Overscan V=107%, H=104%</p> <ol style="list-style-type: none"> 1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity  <ol style="list-style-type: none"> 3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  <ol style="list-style-type: none"> 4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,  <ol style="list-style-type: none"> 5-Adjust EW Symmetry and Horizontal parallelogram 
<p>4 / 3 CINERAMA mode</p>		<p style="text-align: center;">Mode CINERAMA Overscan V=114%, H=104%</p> <ol style="list-style-type: none"> 1- Adjust Horizontal position and Horizontal amplitude  <ol style="list-style-type: none"> 2- Adjust EW Amplitude, EW Trapezium 

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

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES



Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte delo chasis 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

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>A66EJZ011X121</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	A66EJZ011X121	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 SCREEN potentiometer (LL008) so that the retrace lines are just visible. - Now carefully adjust the SCREEN 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 "SCREEN" (LL008) pour apercevoir le retour des lignes. - Régler ensuite le potentiomètre "SCREEN" 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 SCREEN (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 SCREEN (LL008) per rendere visibili le ritrace sullo schermo Regolare il potenziometro SCREEN per eliminare le ritrace 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 SCREEN (LL008) hasta hacer visibles las líneas de retrazado. - Ajustar el potenciómetro SCREEN 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			Sharp picture																																

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

I - ENTER/EXIT SERVICE MODE - ENTREES/SORTIE DU MODE SERVICE - EIN-AUSSTIEG 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

Accès avec le clavier du téléviseur

- 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

Zugriff über die Tastatur des Fernsehgeräts

- Schalten Sie das Gerät mit der Fernbedienung in Standby.
- Drücken Sie die VOL- Taste und dann die PR-Taste am Nebenelement 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 SERVIZIO

Acceso panel control TV

- Con el TV encendido, apagarlo con la tecla "Standby" del telemando. Esperar 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. (Text 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 valides)

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

2 VORÜBERGEHENDES VERLASSEN DES SERVICE MODE

Auf der Fernbedienung EXIT drücken. Mit der Taste Menu gelangen Sie zum Menü "Übersicht". (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. (Télétexto 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 écrites en NVM.

3 ENDLÜTTIGES VERLASSEN DES SERVICE MODES

Fernbedienung TV Bedientfeld Netzschalter

Wenn der Cursor im Hauptmenü des Service-Modus 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-Modus 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 verificare (selezionata) la casella. Para poner en funcionamiento una función verifique (seleñta) la casilla.

Implemented function Not implemented function

Select option / Option auswählen / Selektieren / Optione / Seleccionar / Opzione

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

Navigation up/down

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

Select option / Option auswählen / Selektieren / Optione / Seleccionar / Opzione

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

Navigation up/down

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 / Hexadecimales / Hexadecimales / Valore esadecimale / Valor hexadecimal

Set value

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

4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS EIN-UND AUSSCHALT FUNKTIONEN - FUNZIONI DI COMMUTAZIONE - FUNCIÓN CONMUTACION

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 verificare (selezionata) la casella. Para poner en funcionamiento una función verifique (seleñta) la casilla.

Implemented function Not implemented function

Select option / Option auswählen / Selektieren / Optione / Seleccionar / Opzione

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

5 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHERN DER WERTE - MEMORIZZAZIONE 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. Dopo la regolazione 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. En cours d'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 / Composición del Receptor / Composizione del Ricevitore

Software Version / Version software / Software Version / Version software / Version software

Counter / Zähler / Contador / Contatore

Serial No. / Numéro de série / Serien-Nr. / Numero serie / N° serie

SW-Ver. / V1.00-5

Card / WSZ-V

Serial No. / 0013

AM456789

Serial Number / N° de série / Serien-Nr. / Numero serie / N° serie

ILBUE

SETUP

GEOMETRY

VIDEO

IF

ERROR

Alignment / Alignement / Regolazione / Allineazione

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

Config. WSZ_V

Character 1: Tube type: "A" = 43, "W" = 16/9

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 Dabty, "D"=Dabty prologic

Character 5: Noise Reduction upconversion memory detected: "N" = detected, "-" = not

Character 6: not used / spare

Character 7: not used / spare

SERIAL-N°: AT5...

Character 1: Factory, A= August, B= Barbecue, Z= Zylinder

Character 2: Year, F= 1986, A= 1987 etc. (International code UTEC00511)

Character 3: Month, from 1= January to 9=September, 0=October, N=November

Character 4: Day, 0=December

Character 4-9: Serial N°.

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 hexadécimal.

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

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

ADC: Take Over 84 84

IF PLL: VCO

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

FF: = Bit

Default

Store

Restore

ERROR CODES

GB

- 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)

F

- 10 Fonction clef enfant active
- 11 Mode timer
- 12 Audio MSP ne répond plus
- 13 Audio-Dpl ne répond plus
- 14 TDA9330H ne répond plus
- 15 TDA9321 ne répond plus
- 16 DMU0 ne répond plus
- 17 SAA4956 ne répond plus
- 18 TDA9178 ne répond plus
- 19 Tuner ne répond plus
- 20 I2C-bus bloqué
- 21 I2C-bus data forcé au niveau bas
- 23 I2C-bus clock forcé au niveau bas
- 25 Le "5V commuté" n'est pas disponible
- 26 Tube ne chauffe pas a temps
- 27 Plus que 3-fois la déflexion a détecté une "protection"
- 28 Sécurité déviation verticale active
- 29 Sécurité déviation horizontale active
- 31 Appel par pointeur non alloué
- 32 Logiciel-timer non disponible
- 34 NVM (mémoire) ne répond plus
- 35 5V et 8V non disponibles
- 36 NVM adresse erronée
- 37 Niveau incorrect sur la ligne NMI
- 38 Pile pleine - Il n'y a plus de RAM disponible pour l'opération requise
- 39 I2C-bus data non récupérable
- 41 Détection mauvaise alimentation TDA9178
- 42 Erreur de reset TDA9320
- 43 Erreur de reset TDA9330
- 44 Problème bit NRF (information usine seulement)
- 45 Problème bit FLS (information usine seulement)
- 46 Problème bit NHF (information usine seulement)
- 47 Problème bit NDF (information usine seulement)
- 48 Problème bit XPR (information usine seulement)
- 49 Problème avec les bits SXA...D (information usine seulement)

D

- 10 Kindersicherung aktiv
- 11 Weckerfunktion aktiv
- 12 Audio-MSP antwortet nicht
- 13 Audio-Dpl antwortet nicht
- 14 TDA9330H antwortet nicht
- 15 TDA9321 antwortet nicht
- 16 DMU0 antwortet nicht
- 17 SAA4956 antwortet nicht
- 18 TDA9178 antwortet nicht
- 19 Tuner antwortet nicht
- 20 I2C Bus ist blockiert
- 21 I2C Bus Data ist immer L
- 23 I2C Bus Clock ist immer L
- 25 Geschaltete 5V nicht vorhanden
- 26 Bildrohr ist nicht rechtzeitig aufgeheizt
- 27 Schutzschaltung hat dreimal ausgelöst
- 28 Vertikal-Schutzschaltung ist aktiv
- 29 Horizontal-Schutzschaltung ist aktiv
- 31 Softwarefehler (nur für Produktionsstätten)
- 32 Softwarefehler (nur für Produktionsstätten)
- 34 NVM (EEPROM) antwortet nicht
- 35 5V und 8V nicht vorhanden
- 36 Softwarefehler (nur für Produktionsstätten)
- 37 Unerwarteter Zustand auf NMI-Leitung
- 38 Softwarefehler (nur für Produktionsstätten)
- 39 I2C Bus Data-Leitung nicht reaktivierbar
- 41 Power down detection TDA9178 (PSI)
- 42 Problem während des Resets TDA9320 (HIP)
- 43 Problem während des Resets TDA9330 (HOP)
- 44 NRF Bit Problem (nur für Produktionsstätten)
- 45 FLS Bit Problem (nur für Produktionsstätten)
- 46 NHF Bit Problem (nur für Produktionsstätten)
- 47 NDF Bit Problem (nur für Produktionsstätten)
- 48 XPR Bit Problem (nur für Produktionsstätten)
- 49 Problem mit Bits SXA...D (nur für Produktionsst.)

I

- 10 Funzione child lock attiva
- 11 Modo timer
- 12 MSP-Audio non risponde
- 13 DPL-Audio non risponde
- 14 TDA9330H non risponde
- 15 TDA9321 non risponde
- 16 DMU0 non risponde
- 17 SAA4956 non risponde
- 18 TDA9178 non risponde
- 19 Tuner non risponde
- 20 I2C Bus è bloccato
- 21 I2C Bus data forzata bassa
- 23 I2C Bus clock forzata bassa
- 25 Tensione 5V commutata non disponibile
- 26 Tubo non trasmette informazione caldo entro il tempo stabilito
- 27 Deflessione rileva>3 volte protezione
- 28 Protezione deflessione verticale attiva
- 29 Protezione deflessione orizzontale attiva
- 31 Chiamata al pointer non assegnata
- 32 Logica timer non disponibile
- 34 L'integrato NVM non risponde
- 35 5V e 8V non disponibili
- 36 Indirizzamento NVM errato
- 37 Livello incorretto sulla linea NMI
- 38 Pila piena - RAM non disponibile per l'operazione richiesta
- 39 Linea I2C Bus non recuperabile
- 41 Rilevazione mancata alimentazione el TDA9178 (PSI)
- 42 Errore di reset TDA9320 (HIP)
- 43 Errore di reset TDA9330 (HOP)
- 44 Problema di bit NRF (informazione solo per fabbrica)
- 45 Problema di bit FLS (informazione solo per fabbrica)
- 46 Problema di bit NHF (informazione solo per fabbrica)
- 47 Problema di bit NDF (informazione solo per fabbrica)
- 48 Problema di bit XPR (informazione solo per fabbrica)
- 49 Problema con bit SXA...D (informazione di fabbrica)

E



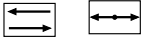
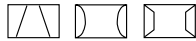

- 10 Función "bloqueo niños" activa
- 11 Modo "timer" activado
- 12 El procesador de audio MSP no responde
- 13 El DPL de audio no responde
- 14 El TDA9330H no responde
- 15 El TDA9321 no responde
- 16 El DMU 0 no responde
- 17 El SAA4956 no responde
- 18 El TDA9178 no responde
- 19 El sintonizador no responde
- 20 El bus I2C está bloqueado
- 21 La línea de datos del bus I2C forzada a nivel bajo
- 23 La línea clock del bus I2C forzada a nivel bajo
- 25 Faltan los +5V conmutados
- 26 El TRC no se calienta en el tiempo establecido
- 27 La deflexión detecta una protección > de 3 veces
- 28 Seguridad de la deflexión vertical activada
- 29 Seguridad de la deflexión horizontal activada
- 31 El puntero no puede encontrar la posición solicitada
- 32 Una solicitud de "timer" no está disponible
- 34 La NVM no responde
- 35 Faltan los 5V y los 8V
- 36 Dirección errónea solicitada por el bus
- 37 Encontrado un nivel inesperado en la línea NMI
- 38 Pila llena. No queda RAM disponible para la operación solicitada
- 39 Línea de datos del bus I2C no recuperable
- 41 Detección de fallo en alimentación TDA9178 (PSI)
- 42 Error de reset en el encendido TDA9320 (HIP)
- 43 Error de reset en el encendido TDA9330 (HOP)
- 44 Fallo en el bit NRF (información sólo para fábrica)
- 45 Fallo en el bit FLS (información sólo para fábrica)
- 46 Fallo en el bit NHF (información sólo para fábrica)
- 47 Fallo en el bit NDF (información sólo para fábrica)
- 48 Fallo en el bit NDF (información sólo para fábrica)
- 49 Fallo en los bits SXA...D (información sólo para fábrica)

GEOMETRY MODE ALIGNMENT

4/3 picture tube

A ICC20 4/3 set needs a geometry alignment only in the 4/3 Zoom 0 mode. All other formats and zoom mode are calculated.
 Un chassis ICC20 4/3 ne nécessite des réglages de géométrie que dans le mode 4/3 zoom 0. La géométrie des autres formats et zoom est calculée.
 Beim Chassis ICC20 4/3 ist ein Geometrie-Abgleich nur im Bildformat 4/3 Zoom 0 notwendig. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.
 Il telaio ICC20 4/3 richiede l'allineamento solo nel formato 4/3 zoom 0. Tutti gli altri formati zoom sono calcolati.
 Un TV ICC20 4/3 sólo necesita ajustar la geometría en modo 4/3 Zoom 0. Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

4 / 3 standard mode zoom 0		<p style="text-align: center;">Overscan V=107% , H=107%</p> <ol style="list-style-type: none"> 1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity  <ol style="list-style-type: none"> 3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  <ol style="list-style-type: none"> 4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,  <ol style="list-style-type: none"> 5-Adjust EW Symmetry and Horizontal parallelogram 
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16/9 picture tube

A ICC20 16/9 set needs a complete geometry alignment in the 16/9 Zoom 0 mode and additionally an alignment of H-amplitude (104%), EW-Amplitude, H-position and EW-trapezium in Cinerama mode (if fitted). All others formats and zoom mode are calculated.

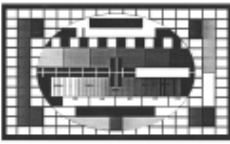
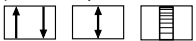

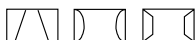

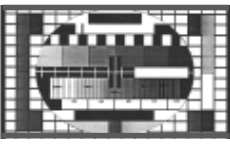


Un chassis ICC20 16/9 ne nécessite un alignement complet des réglages de géométrie que dans le mode 16/9 zoom 0 et en outre des réglages de H-amplitude (104%), EW-Amplitude, H-position et EW-trapèze en mode Cinérama (si les circuits correspondants sont insérés). La géométrie des autres formats et zoom est calculée.

Beim Chassis ICC20 16/9 ist ein vollständiger Geometrie-Abgleich nur im Bildformat 16/9 Zoom 0 notwendig. Wenn das Bildformat Cinerama verfügbar ist, müssen für diesen H-Amplitude (104%), EW-Amplitude, H-Position und EW-Trapezium abgeglichen werden. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.

Il telaio ICC20 16/9 richiede l'allineamento nel formato 16/9 zoom 0 e un allineamento supplementare dell' Ampiezza H (104%), Ampiezza EW Posizione H e Trapezio EW nel modo Cinerama. Tutte le regolazioni negli altri formati zoom sono calcolate.

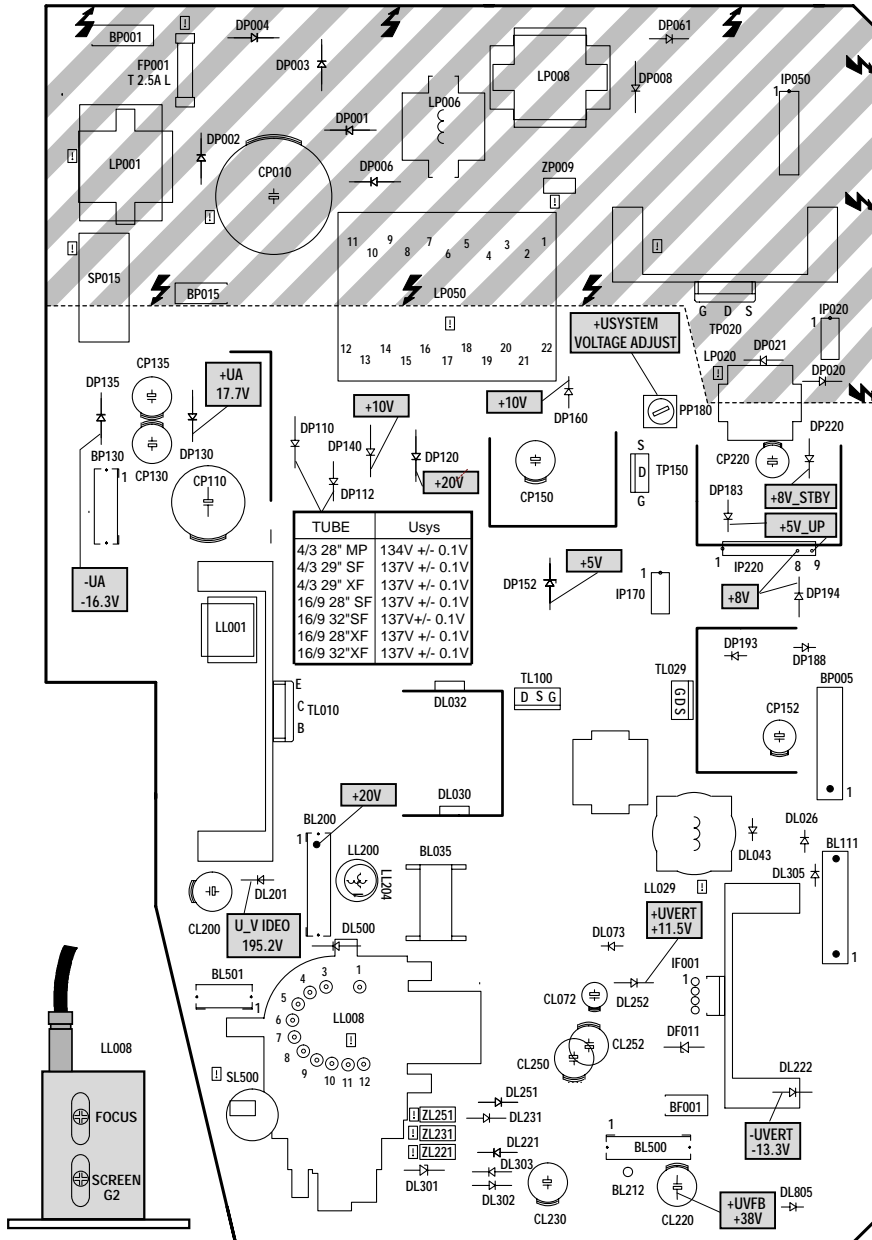
Un TV ICC20 16/9 necesita un ajuste completo de geometría en el modo 16/9 zoom 0 y además un ajuste de la anchura horizontal (104%), posición horizontal y amplitud / trapezio EW en modo "Cinerama" (si está incorporado). Todos los otros formatos y modos de zoom, son calculados.


Signal : 4/3 test pattern


16 / 9 standard mode zoom 0		<p style="text-align: center;">Overscan V=107%, H=104%</p> <ol style="list-style-type: none"> 1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity  <ol style="list-style-type: none"> 3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  <ol style="list-style-type: none"> 4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,  <ol style="list-style-type: none"> 5-Adjust EW Symmetry and Horizontal parallelogram 
4 / 3 CINERAMA mode		<p style="text-align: center;">Mode CINERAMA Overscan V=114%, H=104%</p> <ol style="list-style-type: none"> 1- Adjust Horizontal position and Horizontal amplitude  <ol style="list-style-type: none"> 2- Adjust EW Amplitude, EW Trapezium 







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

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES



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

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

U Sys	PP180	Standard TV - Settings :  +  +  =50% TV to AV1 : Black test pattern	 DP 110	<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>A66EJ2011X121</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>W66EJY011X121</td> <td>16/9 28" XF</td> <td>JP912</td> <td>137V +/- 0.1V</td> </tr> <tr> <td>W76EJY011X121</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	A66EJ2011X121	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	W66EJY011X121	16/9 28" XF	JP912	137V +/- 0.1V	W76EJY011X121	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 SCREEN potentiometer (LL008) so that the retrace lines are just visible. - Now carefully adjust the SCREEN 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 "SCREEN" (LL008) pour apercevoir le retour des lignes. - Régler ensuite le potentiomètre "SCREEN" 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 SCREEN (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 SCREEN (LL008) per rendere visibili le ritrace sullo schermo Regolare il potenziometro SCREEN per eliminare le ritrace 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 SCREEN (LL008) hasta hacer visibles las líneas de retrazado. - Ajustar el potenciómetro SCREEN 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)** **MODO SERVIZIO (E)**

I - ENTER/EXIT SERVICE MODE - ENTREES/SORTIE DU MODE SERVICE - EIN-AUSSTIEG 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

Zugriff über die Tastatur des Fernsehgeräts

Schalten Sie das Gerät mit der Fernbedienung in Standby.

Drücken Sie die VOL- Taste und dann die PR-Taste am Nebenelement 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 SERVIZIO

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.

Note:

In service mode:

- The exit key function is re-initialized
- Clear any wake-up/standby timers
- Pin if of the sport plug has to be ignored
- AV-Link WSS Detection and Letterbox detection (autoformat) have to be disabled
- Automatic standby function, in case of no antenna signal have to be disabled
- Sharpness - middle (nominal)
- Instal Mode disabled
- Default format and zoom.
- The Chassis Variator will be checked and stored.

Note:

En mode service:

- Le verrouillage parental est effacé (réinitialisé)
- La programmation des heures "réveil/min" est annulée.
- Pin if de la prise SCART ignorée
- AV-Link, la détection WSS et la détection letterbox ne sont pas activées
- La fonction de veille automatique en cas d'absence de signal d'antenne n'est pas validée
- Le contour est réglé à la valeur moyenne.
- Le mode d'installation n'est pas pas valide
- Zoom et format ignorés.
- Le type de chassis est contrôlé et mémorisé.

Anmerkung:

Im SERVICE MODE:

- Die Funktion "Blockier Kind" ist reinitialisiert
- Alle Weck- und Ausschaltzeitgeber gelöscht
- Die Funktion SCART - Sportsteuerung nicht ausgewertet
- AV-Link WSS Detection und Letterbox Detection (Autoformat) sind abgeschaltet
- Die Funktion automatische Abschaltung bei fehlendem Antennensignal gestoppt
Die Kontrast wird auf Mittelwert (normal) gesetzt
- Die Modus Installation ist deaktiviert
- Die Standbyformat bzw. der Standard-Zoom-Modus gewählt
- Die Chassis-Variante wird überprüft und gespeichert

Note:

Nel service mode:

- La funzione "Bloqueo niños" es reinitializada
- Anula todos los Alarma programados
- La pantalla del SCART es ignorada
- La rilevazione AV-Link WSS e rilevazione letterbox (formato) si sono disattivate
- La funzione automatica di standby, nel caso di mancanza del segnale d'antenna, è disattivata
- Milazzo media (normale)
- Il Modo Installazione è disattivato
- Il formato ignorato e zoom.
- Le varianti del telaio verranno controllate e memorizzate.

Note:

En modo servicio:

- La función "Bloqueo niños" es reinitializada
- Anula todos los Alarma programados
- La pantalla del SCART es ignorada
- La detección de AV-Link WSS y "todo button" (autoformat) se desactiva
- El apagado automático en caso de ausencia de señal de antena es desactivado
- La nitidez se ajusta al punto medio
- El Modo Instalación es desactivado
- El zoom y formato ignorados
- El tipo de chassis será comprobado y memorizado

2 TEMPORARY EXIT FROM SERVICE MODE

Press Exit on the Remote control.

Everyday use menu can be accessed via Menu button. (Text 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 validés)

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

2 VORÜBERGEHENDS VERLASSEN DES SERVICE MODE

Auf der Fernbedienung EXIT drücken.

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

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

2 USCITA TEMPORANEA DAL SERVICE MODE

Premere Exit sul telecomando.

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

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. (Télétexto 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

Mémo commande 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 écrites en NVM.

3 ENDLÜTIGES VERLASSEN DES SERVICE MODES

Fernbedienung TV Bedientfeld Netzschalter

Wenn der Cursor im Hauptmenü des Service-Modus 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-Modus 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

Select option
Option auswählen
Selecioneira opção
Seleccionar opción

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

4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS EN-UND AUSSTICH 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

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

Select option
Option auswählen
Selecioneira opção
Seleccionar opción

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

5 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHERN 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.

Dopo la regolazione 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.

En cours d'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
Copia le valori RAM en NVM
Kopieren des Wertes von RAM nach NVM
Copiar valores RAM en NVM

Restore → Copies all values from NVM into RAM
Copia todos los valores de NVM en RAM
Kopiert alle NVM-Datenwerte in das 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.

3 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES VALEURS - ANZEIGE DES EINSTELLUNGSWERTE VISUALIZACION 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

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. V1.00-5
WSZ-V

Serial No. AM454793

0013

Serial Number
Nº de serie
Numéro de série
Número serial
Nº serie

Alignment
Alignement
Regolazione
Alineación

TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION - CONFIGURAZIONE DEL TV - CONFIGURACION Y 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=Nickon, "V"=Virtual Dabby, "D"=Dabby prologic

Character 5: Noise Reduction upconversion memory detected: "N" = detected, "-" = not

Character 6: not used / spare

Character 7: not used / spare

SERIAL N° AT5...

Character 1: Factory, "A" = August, "B" = Barcelona, "Z" = Zyrardov

Character 2: Year, "F" = 1986, "M" = 1987 etc. (International code UTEC00511)

Character 3: Month, from 1 = January to 9=September, 0=October, N=November

Character 4: Day=December

Character 4-9: Serial N°.

2 SUBMENU - SOUS-MENU

IF SECAM L

Return 84 94

ADC: Take Over IF PLL VCO

Hexadecimal value
valeur hexadécimale de réglage
Alphazifferwert
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

FF: = Bit
Default
Store
Restore

ERROR CODES

GB

- 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)

F

- 10 Fonction clef enfant active
- 11 Mode timer
- 12 Audio MSP ne répond plus
- 13 Audio-Dpl ne répond plus
- 14 TDA9330H ne répond plus
- 15 TDA9321 ne répond plus
- 16 DMU0 ne répond plus
- 17 SAA4956 ne répond plus
- 18 TDA9178 ne répond plus
- 19 Tuner ne répond plus
- 20 I2C-bus bloqué
- 21 I2C-bus data forcé au niveau bas
- 23 I2C-bus clock forcé au niveau bas
- 25 Le "5V commuté" n'est pas disponible
- 26 Tube ne chauffe pas a temps
- 27 Plus que 3-fois la déflexion a détecté une "protection"
- 28 Sécurité déviation verticale active
- 29 Sécurité déviation horizontale active
- 31 Appel par pointeur non alloué
- 32 Logiciel-timer non disponible
- 34 NVM (mémoire) ne répond plus
- 35 5V et 8V non disponibles
- 36 NVM adresse erronée
- 37 Niveau incorrect sur la ligne NMI
- 38 Pile pleine - Il n'y a plus de RAM disponible pour l'opération requise
- 39 I2C-bus data non récupérable
- 41 Détection mauvaise alimentation TDA9178
- 42 Erreur de reset TDA9320
- 43 Erreur de reset TDA9330
- 44 Problème bit NRF (information usine seulement)
- 45 Problème bit FLS (information usine seulement)
- 46 Problème bit NHF (information usine seulement)
- 47 Problème bit NDF (information usine seulement)
- 48 Problème bit XPR (information usine seulement)
- 49 Problème avec les bits SXA...D (information usine seulement)

D

- 10 Kindersicherung aktiv
- 11 Weckerfunktion aktiv
- 12 Audio-MSP antwortet nicht
- 13 Audio-Dpl antwortet nicht
- 14 TDA9330H antwortet nicht
- 15 TDA9321 antwortet nicht
- 16 DMU0 antwortet nicht
- 17 SAA4956 antwortet nicht
- 18 TDA9178 antwortet nicht
- 19 Tuner antwortet nicht
- 20 I2C Bus ist blockiert
- 21 I2C Bus Data ist immer L
- 23 I2C Bus Clock ist immer L
- 25 Geschaltete 5V nicht vorhanden
- 26 Bildrohr ist nicht rechtzeitig aufgeheizt
- 27 Schutzschaltung hat dreimal ausgelöst
- 28 Vertikal-Schutzschaltung ist aktiv
- 29 Horizontal-Schutzschaltung ist aktiv
- 31 Softwarefehler (nur für Produktionsstätten)
- 32 Softwarefehler (nur für Produktionsstätten)
- 34 NVM (EEPROM) antwortet nicht
- 35 5V und 8V nicht vorhanden
- 36 Softwarefehler (nur für Produktionsstätten)
- 37 Unerwarteter Zustand auf NMI-Leitung
- 38 Softwarefehler (nur für Produktionsstätten)
- 39 I2C Bus Data-Leitung nicht reaktivierbar
- 41 Power down detection TDA9178 (PSI)
- 42 Problem während des Resets TDA9320 (HIP)
- 43 Problem während des Resets TDA9330 (HOP)
- 44 NRF Bit Problem (nur für Produktionsstätten)
- 45 FLS Bit Problem (nur für Produktionsstätten)
- 46 NHF Bit Problem (nur für Produktionsstätten)
- 47 NDF Bit Problem (nur für Produktionsstätten)
- 48 XPR Bit Problem (nur für Produktionsstätten)
- 49 Problem mit Bits SXA...D (nur für Produktionsst.)

I

- 10 Funzione child lock attiva
- 11 Modo timer
- 12 MSP-Audio non risponde
- 13 DPL-Audio non risponde
- 14 TDA9330H non risponde
- 15 TDA9321 non risponde
- 16 DMU0 non risponde
- 17 SAA4956 non risponde
- 18 TDA9178 non risponde
- 19 Tuner non risponde
- 20 I2C Bus è bloccato
- 21 I2C Bus data forzata bassa
- 23 I2C Bus clock forzata bassa
- 25 Tensione 5V commutata non disponibile
- 26 Tubo non trasmette informazione caldo entro il tempo stabilito
- 27 Deflessione rileva>3 volte protezione
- 28 Protezione deflessione verticale attiva
- 29 Protezione deflessione orizzontale attiva
- 31 Chiamata al pointer non assegnata
- 32 Logica timer non disponibile
- 34 L'integrato NVM non risponde
- 35 5V e 8V non disponibili
- 36 Indirizzamento NVM errato
- 37 Livello incorretto sulla linea NMI
- 38 Pila piena - RAM non disponibile per l'operazione richiesta
- 39 Linea I2C Bus non recuperabile
- 41 Rilevazione mancata alimentazione el TDA9178 (PSI)
- 42 Errore di reset TDA9320 (HIP)
- 43 Errore di reset TDA9330 (HOP)
- 44 Problema di bit NRF (informazione solo per fabbrica)
- 45 Problema di bit FLS (informazione solo per fabbrica)
- 46 Problema di bit NHF (informazione solo per fabbrica)
- 47 Problema di bit NDF (informazione solo per fabbrica)
- 48 Problema di bit XPR (informazione solo per fabbrica)
- 49 Problema con bit SXA...D (informazione di fabbrica)

E




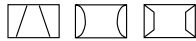
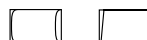
- 10 Función "bloqueo niños" activa
- 11 Modo "timer" activado
- 12 El procesador de audio MSP no responde
- 13 El DPL de audio no responde
- 14 El TDA9330H no responde
- 15 El TDA9321 no responde
- 16 El DMU 0 no responde
- 17 El SAA4956 no responde
- 18 El TDA9178 no responde
- 19 El sintonizador no responde
- 20 El bus I2C está bloqueado
- 21 La línea de datos del bus I2C forzada a nivel bajo
- 23 La línea clock del bus I2C forzada a nivel bajo
- 25 Faltan los +5V conmutados
- 26 El TRC no se calienta en el tiempo establecido
- 27 La deflexión detecta una protección > de 3 veces
- 28 Seguridad de la deflexión vertical activada
- 29 Seguridad de la deflexión horizontal activada
- 31 El puntero no puede encontrar la posición solicitada
- 32 Una solicitud de "timer" no está disponible
- 34 La NVM no responde
- 35 Faltan los 5V y los 8V
- 36 Dirección errónea solicitada por el bus
- 37 Encontrado un nivel inesperado en la línea NMI
- 38 Pila llena. No queda RAM disponible para la operación solicitada
- 39 Línea de datos del bus I2C no recuperable
- 41 Detección de fallo en alimentación TDA9178 (PSI)
- 42 Error de reset en el encendido TDA9320 (HIP)
- 43 Error de reset en el encendido TDA9330 (HOP)
- 44 Fallo en el bit NRF (información sólo para fábrica)
- 45 Fallo en el bit FLS (información sólo para fábrica)
- 46 Fallo en el bit NHF (información sólo para fábrica)
- 47 Fallo en el bit NDF (información sólo para fábrica)
- 48 Fallo en el bit NDF (información sólo para fábrica)
- 49 Fallo en los bits SXA...D (información sólo para fábrica)

GEOMETRY MODE ALIGNMENT

4/3 picture tube

A ICC20 4/3 set needs a geometry alignment only in the 4/3 Zoom 0 mode. All other formats and zoom mode are calculated.
 Un chassis ICC20 4/3 ne nécessite des réglages de géométrie que dans le mode 4/3 zoom 0. La géométrie des autres formats et zoom est calculée.
 Beim Chassis ICC20 4/3 ist ein Geometrie-Abgleich nur im Bildformat 4/3 Zoom 0 notwendig. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.
 Il telaio ICC20 4/3 richiede l'allineamento solo nel formato 4/3 zoom 0. Tutti gli altri formati zoom sono calcolati.
 Un TV ICC20 4/3 sólo necesita ajustar la geometría en modo 4/3 Zoom 0. Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

<p>4 / 3 standard mode zoom 0</p>		<p style="text-align: center;">Overscan V=107% , H=107%</p> <p>1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity</p> <p style="text-align: center;">  </p> <p>3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude</p> <p style="text-align: center;">  </p> <p>4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,</p> <p style="text-align: center;">  </p> <p>5-Adjust EW Symmetry and Horizontal parallelogram</p> <p style="text-align: center;">  </p>
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16/9 picture tube

A ICC20 16/9 set needs a complete geometry alignment in the 16/9 Zoom 0 mode and additionally an alignment of H-amplitude (104%), EW-Amplitude, H-position and EW-trapezium in Cinerama mode (if fitted). All others formats and zoom mode are calculated.

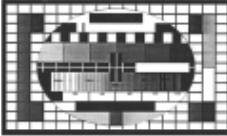
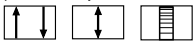

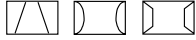

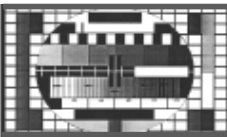


Un chassis ICC20 16/9 ne nécessite un alignement complet des réglages de géométrie que dans le mode 16/9 zoom 0 et en outre des réglages de H-amplitude (104%), EW-Amplitude, H-position et EW-trapèze en mode Cinérama (si les circuits correspondants sont insérés). La géométrie des autres formats et zoom est calculée.

Beim Chassis ICC20 16/9 ist ein vollständiger Geometrie-Abgleich nur im Bildformat 16/9 Zoom 0 notwendig. Wenn das Bildformat Cinerama verfügbar ist, müssen für diesen H-Amplitude (104%), EW-Amplitude, H-Position und EW-Trapezium abgeglichen werden. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.

Il telaio ICC20 16/9 richiede l'allineamento nel formato 16/9 zoom 0 e un allineamento supplementare dell' Ampiezza H (104%), Ampiezza E/W Posizione H e Trapezio EW nel modo Cinerama. Tutte le regolazioni negli altri formati zoom sono calcolate.

Un TV ICC20 16/9 necesita un ajuste completo de geometría en el modo 16/9 zoom 0 y además un ajuste de la anchura horizontal (104%), posición horizontal y amplitud / trapezio E/W en modo "Cinerama" (si está incorporado). Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

<p>16 / 9 standard mode zoom 0</p>		<p style="text-align: center;">Overscan V=107%, H=104%</p> <p>1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity</p> <p style="text-align: center;">  </p> <p>3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude</p> <p style="text-align: center;">  </p> <p>4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,</p> <p style="text-align: center;">  </p> <p>5-Adjust EW Symmetry and Horizontal parallelogram</p> <p style="text-align: center;">  </p>
<p>4 / 3 CINERAMA mode</p>		<p style="text-align: center;">Mode CINERAMA Overscan V=114%, H=104%</p> <p>1- Adjust Horizontal position and Horizontal amplitude</p> <p style="text-align: center;">  </p> <p>2- Adjust EW Amplitude, EW Trapezium</p> <p style="text-align: center;">  </p>

SERVICE MODE (GB) **MODE SERVICE (F)** **SERVICE-MODE (D)** **SERVICE - MODE (I)** **MODO 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

Zugriff über die Tastatur des Fernsehgeräts

Schalten Sie das Gerät mit der Fernbedienung in Standby.

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

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

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 MODU SERVIZIO

Acceso panel control TV

Con el TV encendido, apagarlo con la tecla "Standby" del telemando. Esperar 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. (Text 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 valides)

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

2 VORÜBERGEHENDES VERLASSEN DES SERVICE MODE

Auf der Fernbedienung EXIT drücken.

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

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

2 USCITA TEMPORANEA DAL SERVICE MODE

Premere Exit sul telecomando.

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

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. (Télextéxt 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 écrites en NVM.

3 ENDLÜTIGES VERLASSEN DES SERVICE MODES

Fernbedienung TV Bedientfeld Netzschalter

Wenn der Cursor im Hauptmenü des Service-Modus 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-Modus 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
Seleccióneir Opzione
Selecționare opțiune

"Change" value
"Wert ändern"
"Cambiare" valore
"Cambiar" valor

Navigation up/down

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
value hexadécimale
Hexadecimaleswert
Valore esadecimale
Valor hexadecimal

Set value
: NVM value

Display >+ > NVM value < < < NVM value

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
Composiçao do receptor

Software Version
Version software
Software Version
Versiön software
Versiön software

Counter
Zähler
Contador
Contatore

Self Ver. V1.00-5
Code WSZ-V
Serial No. AM456789 0013

Serial Number
Nº de série
Seriennr.
Número serie
Nº serie

ILUBE
SETUP
GEOMETRY
VIDEO
IF
ERROR

Alignment
Alignement
Regolazione
Alineação

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

Config. WSZ_V

Character 1: Tube type: "A" = 43, "W" = 16/9
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 Dabty, "D"=Dabty prologic
Character 5: Noise Reduction upconversion memory detected: "N" = detected, "-" = not
Character 6: not used / spare
Character 7: not used / spare

SERIAL-Nº AT5...

Character 1: Factory, "A" = August, "B" = February, "Z" = Zylinder
Character 2: Year, "F" = 1986, "A" = 1987 etc. (International code UTEC90511)
Character 3: Month, from 1 = January to 9=September, 0=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 hexadécimale.

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

Il contatore indica il numero di ore di servizio del TV. Puntare 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 84

ADC: Take Over IF PL/FLC/VO

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

FF: = Bit
Default
Store
Restore

ERROR CODES

GB

- 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)

F

- 10 Fonction clef enfant active
- 11 Mode timer
- 12 Audio MSP ne répond plus
- 13 Audio-Dpl ne répond plus
- 14 TDA9330H ne répond plus
- 15 TDA9321 ne répond plus
- 16 DMU0 ne répond plus
- 17 SAA4956 ne répond plus
- 18 TDA9178 ne répond plus
- 19 Tuner ne répond plus
- 20 I2C-bus bloqué
- 21 I2C-bus data forcé au niveau bas
- 23 I2C-bus clock forcé au niveau bas
- 25 Le "5V commuté" n'est pas disponible
- 26 Tube ne chauffe pas a temps
- 27 Plus que 3-fois la déflexion a détecté une "protection"
- 28 Sécurité déviation verticale active
- 29 Sécurité déviation horizontale active
- 31 Appel par pointeur non alloué
- 32 Logiciel-timer non disponible
- 34 NVM (mémoire) ne répond plus
- 35 5V et 8V non disponibles
- 36 NVM adresse erronée
- 37 Niveau incorrect sur la ligne NMI
- 38 Pile pleine - Il n'y a plus de RAM disponible pour l'opération requise
- 39 I2C-bus data non récupérable
- 41 Détection mauvaise alimentation TDA9178
- 42 Erreur de reset TDA9320
- 43 Erreur de reset TDA9330
- 44 Problème bit NRF (information usine seulement)
- 45 Problème bit FLS (information usine seulement)
- 46 Problème bit NHF (information usine seulement)
- 47 Problème bit NDF (information usine seulement)
- 48 Problème bit XPR (information usine seulement)
- 49 Problème avec les bits SXA...D (information usine seulement)

D

- 10 Kindersicherung aktiv
- 11 Weckerfunktion aktiv
- 12 Audio-MSP antwortet nicht
- 13 Audio-Dpl antwortet nicht
- 14 TDA9330H antwortet nicht
- 15 TDA9321 antwortet nicht
- 16 DMU0 antwortet nicht
- 17 SAA4956 antwortet nicht
- 18 TDA9178 antwortet nicht
- 19 Tuner antwortet nicht
- 20 I2C Bus ist blockiert
- 21 I2C Bus Data ist immer L
- 23 I2C Bus Clock ist immer L
- 25 Geschaltete 5V nicht vorhanden
- 26 Bildrohr ist nicht rechtzeitig aufgeheizt
- 27 Schutzschaltung hat dreimal ausgelöst
- 28 Vertikal-Schutzschaltung ist aktiv
- 29 Horizontal-Schutzschaltung ist aktiv
- 31 Softwarefehler (nur für Produktionsstätten)
- 32 Softwarefehler (nur für Produktionsstätten)
- 34 NVM (EEPROM) antwortet nicht
- 35 5V und 8V nicht vorhanden
- 36 Softwarefehler (nur für Produktionsstätten)
- 37 Unerwarteter Zustand auf NMI-Leitung
- 38 Softwarefehler (nur für Produktionsstätten)
- 39 I2C Bus Data-Leitung nicht reaktivierbar
- 41 Power down detection TDA9178 (PSI)
- 42 Problem während des Resets TDA9320 (HIP)
- 43 Problem während des Resets TDA9330 (HOP)
- 44 NRF Bit Problem (nur für Produktionsstätten)
- 45 FLS Bit Problem (nur für Produktionsstätten)
- 46 NHF Bit Problem (nur für Produktionsstätten)
- 47 NDF Bit Problem (nur für Produktionsstätten)
- 48 XPR Bit Problem (nur für Produktionsstätten)
- 49 Problem mit Bits SXA...D (nur für Produktionsst.)

I

- 10 Funzione child lock attiva
- 11 Modo timer
- 12 MSP-Audio non risponde
- 13 DPL-Audio non risponde
- 14 TDA9330H non risponde
- 15 TDA9321 non risponde
- 16 DMU0 non risponde
- 17 SAA4956 non risponde
- 18 TDA9178 non risponde
- 19 Tuner non risponde
- 20 I2C Bus è bloccato
- 21 I2C Bus data forzata bassa
- 23 I2C Bus clock forzata bassa
- 25 Tensione 5V commutata non disponibile
- 26 Tubo non trasmette informazione caldo entro il tempo stabilito
- 27 Deflessione rileva>3 volte protezione
- 28 Protezione deflessione verticale attiva
- 29 Protezione deflessione orizzontale attiva
- 31 Chiamata al pointer non assegnata
- 32 Logica timer non disponibile
- 34 L'integrato NVM non risponde
- 35 5V e 8V non disponibili
- 36 Indirizzamento NVM errato
- 37 Livello incorretto sulla linea NMI
- 38 Pila piena - RAM non disponibile per l'operazione richiesta
- 39 Linea I2C Bus non recuperabile
- 41 Rilevazione mancata alimentazione el TDA9178 (PSI)
- 42 Errore di reset TDA9320 (HIP)
- 43 Errore di reset TDA9330 (HOP)
- 44 Problema di bit NRF (informazione solo per fabbrica)
- 45 Problema di bit FLS (informazione solo per fabbrica)
- 46 Problema di bit NHF (informazione solo per fabbrica)
- 47 Problema di bit NDF (informazione solo per fabbrica)
- 48 Problema di bit XPR (informazione solo per fabbrica)
- 49 Problema con bit SXA...D (informazione di fabbrica)

E




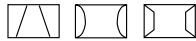
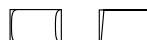
- 10 Función "bloqueo niños" activa
- 11 Modo "timer" activado
- 12 El procesador de audio MSP no responde
- 13 El DPL de audio no responde
- 14 El TDA9330H no responde
- 15 El TDA9321 no responde
- 16 El DMU 0 no responde
- 17 El SAA4956 no responde
- 18 El TDA9178 no responde
- 19 El sintonizador no responde
- 20 El bus I2C está bloqueado
- 21 La línea de datos del bus I2C forzada a nivel bajo
- 23 La línea clock del bus I2C forzada a nivel bajo
- 25 Faltan los +5V conmutados
- 26 El TRC no se calienta en el tiempo establecido
- 27 La deflexión detecta una protección > de 3 veces
- 28 Seguridad de la deflexión vertical activada
- 29 Seguridad de la deflexión horizontal activada
- 31 El puntero no puede encontrar la posición solicitada
- 32 Una solicitud de "timer" no está disponible
- 34 La NVM no responde
- 35 Faltan los 5V y los 8V
- 36 Dirección errónea solicitada por el bus
- 37 Encontrado un nivel inesperado en la línea NMI
- 38 Pila llena. No queda RAM disponible para la operación solicitada
- 39 Línea de datos del bus I2C no recuperable
- 41 Detección de fallo en alimentación TDA9178 (PSI)
- 42 Error de reset en el encendido TDA9320 (HIP)
- 43 Error de reset en el encendido TDA9330 (HOP)
- 44 Fallo en el bit NRF (información sólo para fábrica)
- 45 Fallo en el bit FLS (información sólo para fábrica)
- 46 Fallo en el bit NHF (información sólo para fábrica)
- 47 Fallo en el bit NDF (información sólo para fábrica)
- 48 Fallo en el bit NDF (información sólo para fábrica)
- 49 Fallo en los bits SXA...D (información sólo para fábrica)

GEOMETRY MODE ALIGNMENT

4/3 picture tube

A ICC20 4/3 set needs a geometry alignment only in the 4/3 Zoom 0 mode. All other formats and zoom mode are calculated.
 Un chassis ICC20 4/3 ne nécessite des réglages de géométrie que dans le mode 4/3 zoom 0. La géométrie des autres formats et zoom est calculée.
 Beim Chassis ICC20 4/3 ist ein Geometrie-Abgleich nur im Bildformat 4/3 Zoom 0 notwendig. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.
 Il telaio ICC20 4/3 richiede l'allineamento solo nel formato 4/3 zoom 0. Tutti gli altri formati zoom sono calcolati.
 Un TV ICC20 4/3 sólo necesita ajustar la geometría en modo 4/3 Zoom 0. Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

<p>4 / 3 standard mode zoom 0</p>		<p style="text-align: center;">Overscan V=107% , H=107%</p> <p>1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity</p> <p style="text-align: center;">  </p> <p>3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude</p> <p style="text-align: center;">  </p> <p>4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,</p> <p style="text-align: center;">  </p> <p>5-Adjust EW Symmetry and Horizontal parallelogram</p> <p style="text-align: center;">  </p>
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16/9 picture tube

A ICC20 16/9 set needs a complete geometry alignment in the 16/9 Zoom 0 mode and additionally an alignment of H-amplitude (104%), EW-Amplitude, H-position and EW-trapezium in Cinerama mode (if fitted). All others formats and zoom mode are calculated.

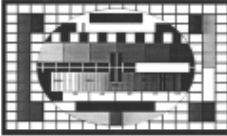
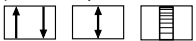

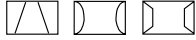

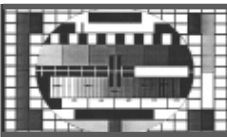


Un chassis ICC20 16/9 ne nécessite un alignement complet des réglages de géométrie que dans le mode 16/9 zoom 0 et en outre des réglages de H-amplitude (104%), EW-Amplitude, H-position et EW-trapèze en mode Cinérama (si les circuits correspondants sont insérés). La géométrie des autres formats et zoom est calculée.

Beim Chassis ICC20 16/9 ist ein vollständiger Geometrie-Abgleich nur im Bildformat 16/9 Zoom 0 notwendig. Wenn das Bildformat Cinerama verfügbar ist, müssen für diesen H-Amplitude (104%), EW-Amplitude, H-Position und EW-Trapezium abgeglichen werden. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.

Il telaio ICC20 16/9 richiede l'allineamento nel formato 16/9 zoom 0 e un allineamento supplementare dell' Ampiezza H (104%), Ampiezza EW Posizione H e Trapezio EW nel modo Cinerama. Tutte le regolazioni negli altri formati zoom sono calcolate.

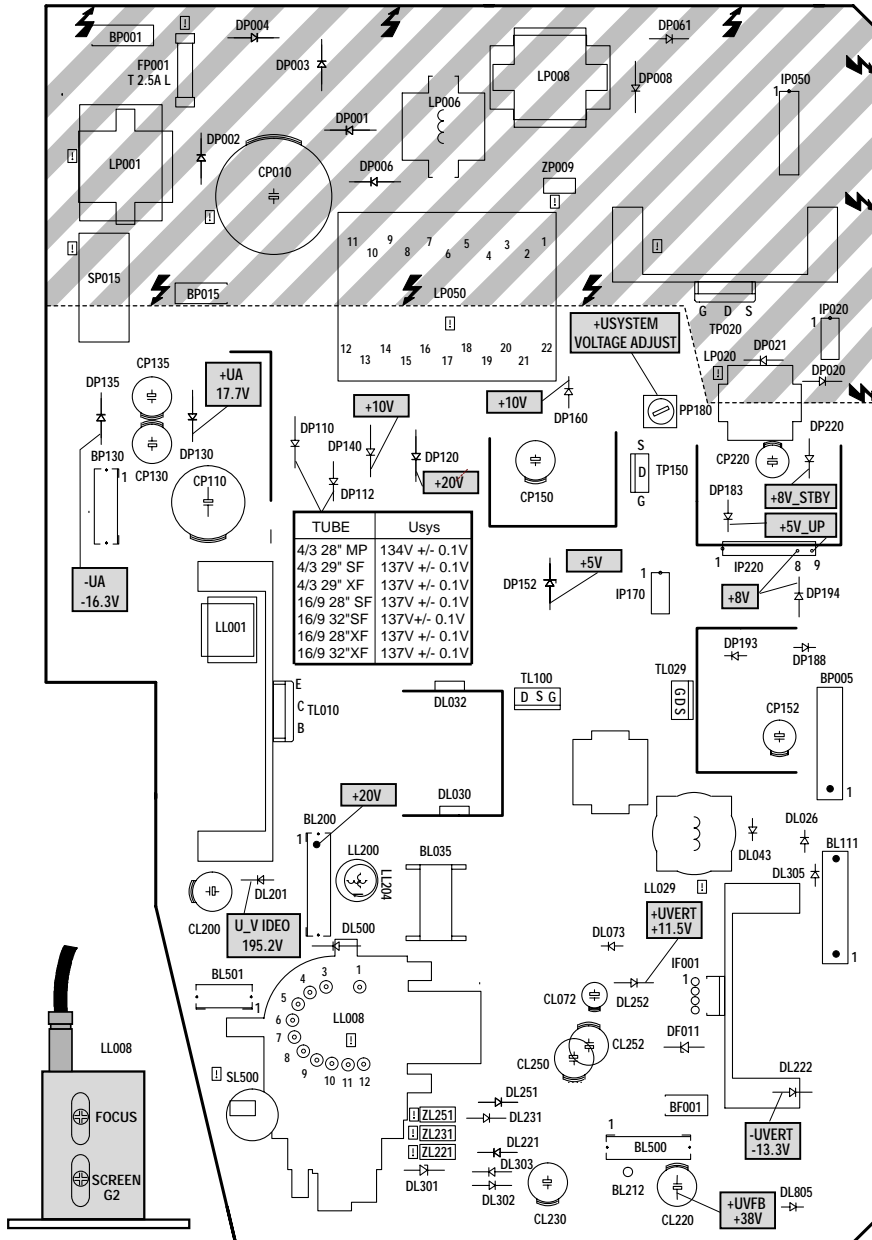
Un TV ICC20 16/9 necesita un ajuste completo de geometría en el modo 16/9 zoom 0 y además un ajuste de la anchura horizontal (104%), posición horizontal y amplitud / trapezio EW en modo "Cinerama" (si está incorporado). Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

<p>16 / 9 standard mode zoom 0</p>		<p style="text-align: center;">Overscan V=107%, H=104%</p> <p>1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity</p> <p style="text-align: center;">  </p> <p>3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude</p> <p style="text-align: center;">  </p> <p>4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,</p> <p style="text-align: center;">  </p> <p>5-Adjust EW Symmetry and Horizontal parallelogram</p> <p style="text-align: center;">  </p>
<p>4 / 3 CINERAMA mode</p>		<p style="text-align: center;">Mode CINERAMA Overscan V=114%, H=104%</p> <p>1- Adjust Horizontal position and Horizontal amplitude</p> <p style="text-align: center;">  </p> <p>2- Adjust EW Amplitude, EW Trapezium</p> <p style="text-align: center;">  </p>

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

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES



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

U Sys	PP180	Standard TV - Settings : + = 50% TV to AV1 : Black test pattern	DP 110	<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>A66EJZ011X121</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	A66EJZ011X121	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 SCREEN potentiometer (LL008) so that the retrace lines are just visible. - Now carefully adjust the SCREEN 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 "SCREEN" (LL008) pour apercevoir le retour des lignes. - Régler ensuite le potentiomètre "SCREEN" 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 SCREEN (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 SCREEN (LL008) per rendere visibili le ritrace sullo schermo Regolare il potenziometro SCREEN per eliminare le ritrace 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 SCREEN (LL008) hasta hacer visibles las líneas de retrazado. - Ajustar el potenciómetro SCREEN 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																																

ERROR CODES

GB

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- 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
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- 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)

F

- 10 Fonction clef enfant active
- 11 Mode timer
- 12 Audio MSP ne répond plus
- 13 Audio-Dpl ne répond plus
- 14 TDA9330H ne répond plus
- 15 TDA9321 ne répond plus
- 16 DMU0 ne répond plus
- 17 SAA4956 ne répond plus
- 18 TDA9178 ne répond plus
- 19 Tuner ne répond plus
- 20 I2C-bus bloqué
- 21 I2C-bus data forcé au niveau bas
- 23 I2C-bus clock forcé au niveau bas
- 25 Le "5V commuté" n'est pas disponible
- 26 Tube ne chauffe pas a temps
- 27 Plus que 3-fois la déflexion a détecté une "protection"
- 28 Sécurité déviation verticale active
- 29 Sécurité déviation horizontale active
- 31 Appel par pointeur non alloué
- 32 Logiciel-timer non disponible
- 34 NVM (mémoire) ne répond plus
- 35 5V et 8V non disponibles
- 36 NVM adresse erronée
- 37 Niveau incorrect sur la ligne NMI
- 38 Pile pleine - Il n'y a plus de RAM disponible pour l'opération requise
- 39 I2C-bus data non récupérable
- 41 Détection mauvaise alimentation TDA9178
- 42 Erreur de reset TDA9320
- 43 Erreur de reset TDA9330
- 44 Problème bit NRF (information usine seulement)
- 45 Problème bit FLS (information usine seulement)
- 46 Problème bit NHF (information usine seulement)
- 47 Problème bit NDF (information usine seulement)
- 48 Problème bit XPR (information usine seulement)
- 49 Problème avec les bits SXA...D (information usine seulement)

D

- 10 Kindersicherung aktiv
- 11 Weckerfunktion aktiv
- 12 Audio-MSP antwortet nicht
- 13 Audio-Dpl antwortet nicht
- 14 TDA9330H antwortet nicht
- 15 TDA9321 antwortet nicht
- 16 DMU0 antwortet nicht
- 17 SAA4956 antwortet nicht
- 18 TDA9178 antwortet nicht
- 19 Tuner antwortet nicht
- 20 I2C Bus ist blockiert
- 21 I2C Bus Data ist immer L
- 23 I2C Bus Clock ist immer L
- 25 Geschaltete 5V nicht vorhanden
- 26 Bildrohr ist nicht rechtzeitig aufgeheizt
- 27 Schutzschaltung hat dreimal ausgelöst
- 28 Vertikal-Schutzschaltung ist aktiv
- 29 Horizontal-Schutzschaltung ist aktiv
- 31 Softwarefehler (nur für Produktionsstätten)
- 32 Softwarefehler (nur für Produktionsstätten)
- 34 NVM (EEPROM) antwortet nicht
- 35 5V und 8V nicht vorhanden
- 36 Softwarefehler (nur für Produktionsstätten)
- 37 Unerwarteter Zustand auf NMI-Leitung
- 38 Softwarefehler (nur für Produktionsstätten)
- 39 I2C Bus Data-Leitung nicht reaktivierbar
- 41 Power down detection TDA9178 (PSI)
- 42 Problem während des Resets TDA9320 (HIP)
- 43 Problem während des Resets TDA9330 (HOP)
- 44 NRF Bit Problem (nur für Produktionsstätten)
- 45 FLS Bit Problem (nur für Produktionsstätten)
- 46 NHF Bit Problem (nur für Produktionsstätten)
- 47 NDF Bit Problem (nur für Produktionsstätten)
- 48 XPR Bit Problem (nur für Produktionsstätten)
- 49 Problem mit Bits SXA...D (nur für Produktionsst.)

I

- 10 Funzione child lock attiva
- 11 Modo timer
- 12 MSP-Audio non risponde
- 13 DPL-Audio non risponde
- 14 TDA9330H non risponde
- 15 TDA9321 non risponde
- 16 DMU0 non risponde
- 17 SAA4956 non risponde
- 18 TDA9178 non risponde
- 19 Tuner non risponde
- 20 I2C Bus è bloccato
- 21 I2C Bus data forzata bassa
- 23 I2C Bus clock forzata bassa
- 25 Tensione 5V commutata non disponibile
- 26 Tubo non trasmette informazione caldo entro il tempo stabilito
- 27 Deflessione rileva>3 volte protezione
- 28 Protezione deflessione verticale attiva
- 29 Protezione deflessione orizzontale attiva
- 31 Chiamata al pointer non assegnata
- 32 Logica timer non disponibile
- 34 L'integrato NVM non risponde
- 35 5V e 8V non disponibili
- 36 Indirizzamento NVM errato
- 37 Livello incorretto sulla linea NMI
- 38 Pila piena - RAM non disponibile per l'operazione richiesta
- 39 Linea I2C Bus non recuperabile
- 41 Rilevazione mancata alimentazione el TDA9178 (PSI)
- 42 Errore di reset TDA9320 (HIP)
- 43 Errore di reset TDA9330 (HOP)
- 44 Problema di bit NRF (informazione solo per fabbrica)
- 45 Problema di bit FLS (informazione solo per fabbrica)
- 46 Problema di bit NHF (informazione solo per fabbrica)
- 47 Problema di bit NDF (informazione solo per fabbrica)
- 48 Problema di bit XPR (informazione solo per fabbrica)
- 49 Problema con bit SXA...D (informazione di fabbrica)

E



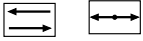
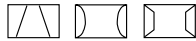

- 10 Función "bloqueo niños" activa
- 11 Modo "timer" activado
- 12 El procesador de audio MSP no responde
- 13 El DPL de audio no responde
- 14 El TDA9330H no responde
- 15 El TDA9321 no responde
- 16 El DMU0 no responde
- 17 El SAA4956 no responde
- 18 El TDA9178 no responde
- 19 El sintonizador no responde
- 20 El bus I2C está bloqueado
- 21 La línea de datos del bus I2C forzada a nivel bajo
- 23 La línea clock del bus I2C forzada a nivel bajo
- 25 Faltan los +5V conmutados
- 26 El TRC no se calienta en el tiempo establecido
- 27 La deflexión detecta una protección > de 3 veces
- 28 Seguridad de la deflexión vertical activada
- 29 Seguridad de la deflexión horizontal activada
- 31 El puntero no puede encontrar la posición solicitada
- 32 Una solicitud de "timer" no está disponible
- 34 La NVM no responde
- 35 Faltan los 5V y los 8V
- 36 Dirección errónea solicitada por el bus
- 37 Encontrado un nivel inesperado en la línea NMI
- 38 Pila llena. No queda RAM disponible para la operación solicitada
- 39 Línea de datos del bus I2C no recuperable
- 41 Detección de fallo en alimentación TDA9178 (PSI)
- 42 Error de reset en el encendido TDA9320 (HIP)
- 43 Error de reset en el encendido TDA9330 (HOP)
- 44 Fallo en el bit NRF (información sólo para fábrica)
- 45 Fallo en el bit FLS (información sólo para fábrica)
- 46 Fallo en el bit NHF (información sólo para fábrica)
- 47 Fallo en el bit NDF (información sólo para fábrica)
- 48 Fallo en el bit NDF (información sólo para fábrica)
- 49 Fallo en los bits SXA...D (información sólo para fábrica)

GEOMETRY MODE ALIGNMENT

4/3 picture tube

A ICC20 4/3 set needs a geometry alignment only in the 4/3 Zoom 0 mode. All other formats and zoom mode are calculated.
 Un chassis ICC20 4/3 ne nécessite des réglages de géométrie que dans le mode 4/3 zoom 0. La géométrie des autres formats et zoom est calculée.
 Beim Chassis ICC20 4/3 ist ein Geometrie-Abgleich nur im Bildformat 4/3 Zoom 0 notwendig. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.
 Il telaio ICC20 4/3 richiede l'allineamento solo nel formato 4/3 zoom 0. Tutti gli altri formati zoom sono calcolati.
 Un TV ICC20 4/3 sólo necesita ajustar la geometría en modo 4/3 Zoom 0. Todos los otros formatos y modos de zoom, son calculados.

Signal : 4/3 test pattern

4 / 3 standard mode zoom 0		<p style="text-align: center;">Overscan V=107% , H=107%</p> <ol style="list-style-type: none"> 1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity  <ol style="list-style-type: none"> 3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  <ol style="list-style-type: none"> 4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,  <ol style="list-style-type: none"> 5-Adjust EW Symmetry and Horizontal parallelogram 
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16/9 picture tube

A ICC20 16/9 set needs a complete geometry alignment in the 16/9 Zoom 0 mode and additionally an alignment of H-amplitude (104%), EW-Amplitude, H-position and EW-trapezium in Cinerama mode (if fitted). All others formats and zoom mode are calculated.

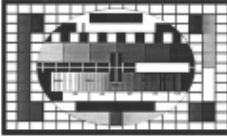
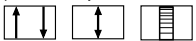

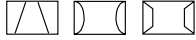

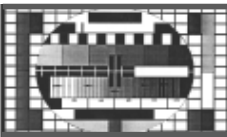


Un chassis ICC20 16/9 ne nécessite un alignement complet des réglages de géométrie que dans le mode 16/9 zoom 0 et en outre des réglages de H-amplitude (104%), EW-Amplitude, H-position et EW-trapèze en mode Cinérama (si les circuits correspondants sont insérés). La géométrie des autres formats et zoom est calculée.

Beim Chassis ICC20 16/9 ist ein vollständiger Geometrie-Abgleich nur im Bildformat 16/9 Zoom 0 notwendig. Wenn das Bildformat Cinerama verfügbar ist, müssen für diesen H-Amplitude (104%), EW-Amplitude, H-Position und EW-Trapezium abgeglichen werden. Die Werte für alle weiteren Formate und Zoomstufen werden berechnet.

Il telaio ICC20 16/9 richiede l'allineamento nel formato 16/9 zoom 0 e un allineamento supplementare dell' Ampiezza H (104%), Ampiezza EW Posizione H e Trapezio EW nel modo Cinerama. Tutte le regolazioni negli altri formati zoom sono calcolate.

Un TV ICC20 16/9 necesita un ajuste completo de geometría en el modo 16/9 zoom 0 y además un ajuste de la anchura horizontal (104%), posición horizontal y amplitud / trapezio EW en modo "Cinerama" (si está incorporado). Todos los otros formatos y modos de zoom, son calculados.

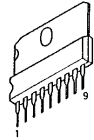
Signal : 4/3 test pattern

16 / 9 standard mode zoom 0		<p style="text-align: center;">Overscan V=107%, H=104%</p> <ol style="list-style-type: none"> 1- Adjust Vertical position and Vertical amplitude 2- Adjust Vertical Slope and linearity  <ol style="list-style-type: none"> 3- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  <ol style="list-style-type: none"> 4-Adjust EW Amplitude, EW Shape and Trapezium, EW Corner,  <ol style="list-style-type: none"> 5-Adjust EW Symmetry and Horizontal parallelogram 
4 / 3 CINERAMA mode		<p style="text-align: center;">Mode CINERAMA Overscan V=114%, H=104%</p> <ol style="list-style-type: none"> 1- Adjust Horizontal position and Horizontal amplitude  <ol style="list-style-type: none"> 2- Adjust EW Amplitude, EW Trapezium 

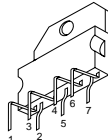
**LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABBREVIACIONES**

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

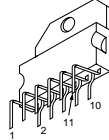
**INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
 CIRCUITOS INTEGRADOS Y TRANSISTORES**



TDA 8139
TDA6111Q
TEA5101B



TDA 8177



TDA7269



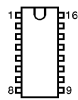
4N25TV



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



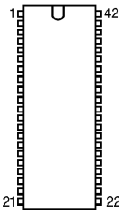
TL084C



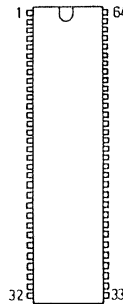
STV2145



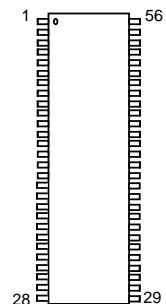
TEA6415C



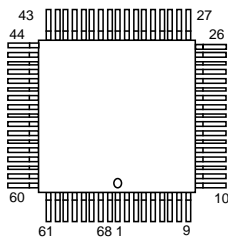
TDA9811



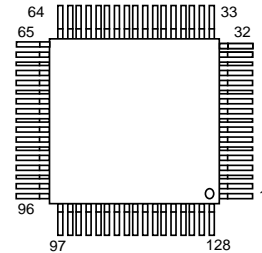
MPS3400
MPS3410



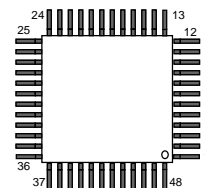
STV2040
STV2162



MS3400C-PS
MSP3410D-PS
ST90R92



IC-QP128



MC141627



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



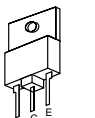
BC368
BC639
BF421
BF 422
BF423



BC327
BC 337
BC547B
BC557B
BC 548B
BC 558B



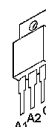
2SA1837
2SC4793
2SC3675
BD 241
TIP122



BUL810TH
BUV48CFITH16
BW93CFI
BW94CFI
ON4977



7805
7812
L7912CV



BT806 -600C



STP6 NA60F1
STP22NE03L
2SK1460

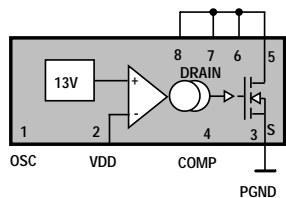


TR03-400T

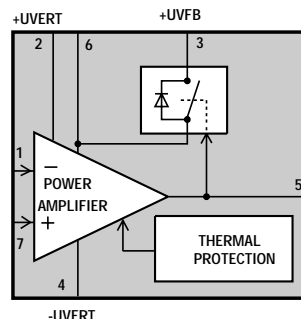
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIEDER
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

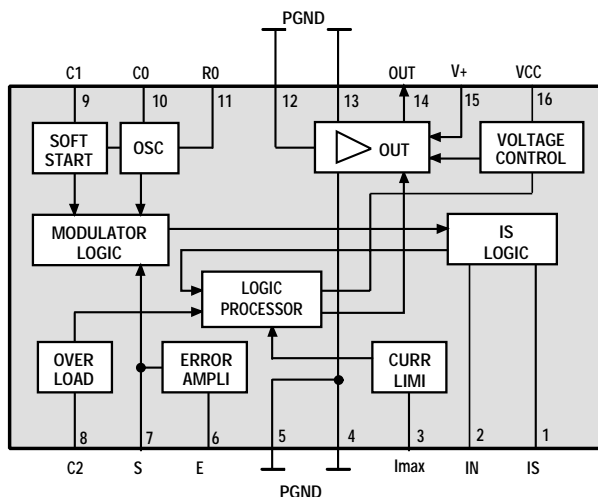
IP020 - VIPER20DIP



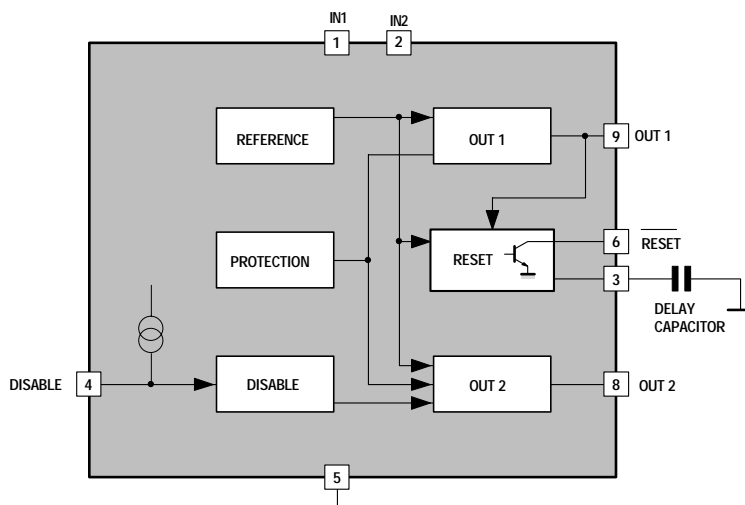
IF001 - TDA8177F



IP050 - TEA2262



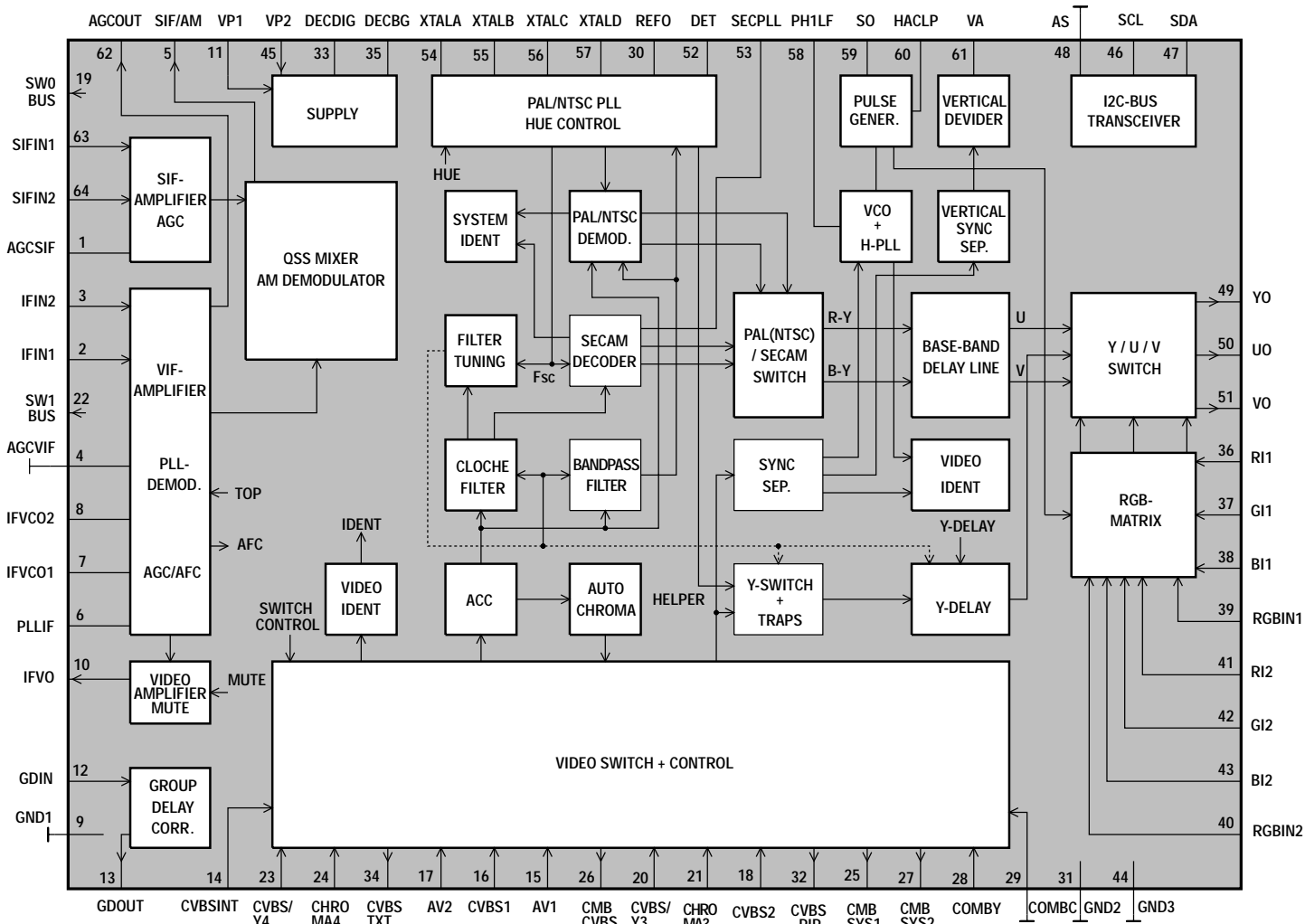
IP220 - TDA8139



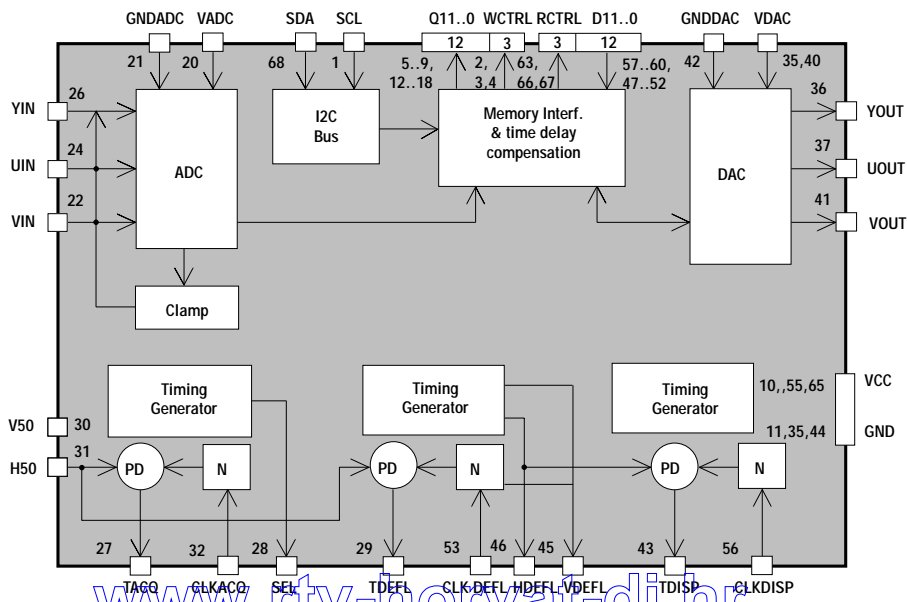
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

IC001 - TDA9321H



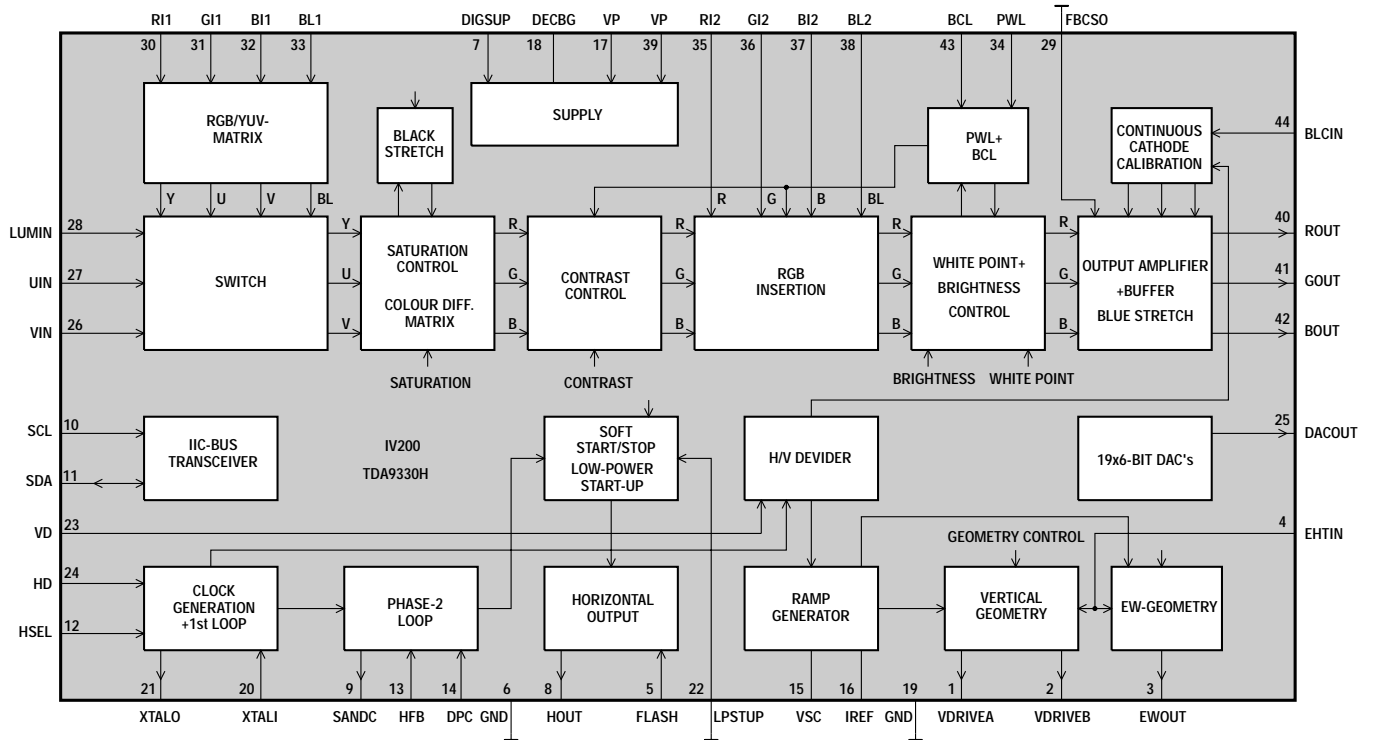
IU308 - DMU0



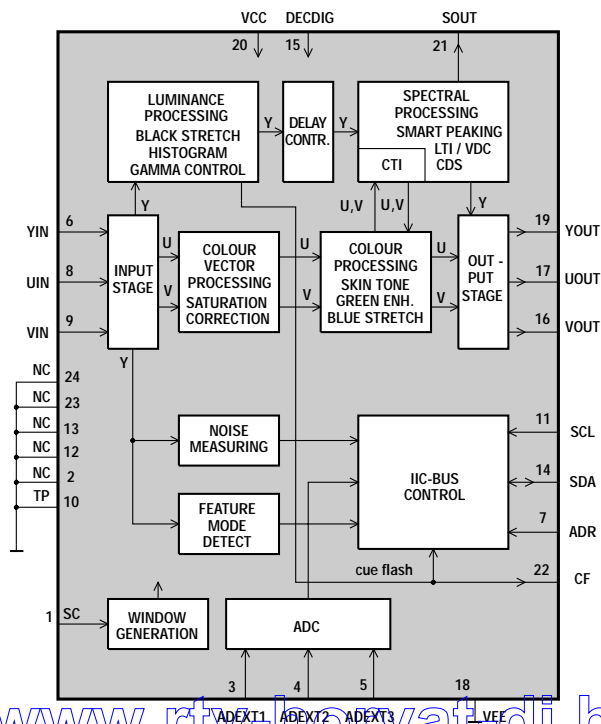
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

IV200 - TDA9330H



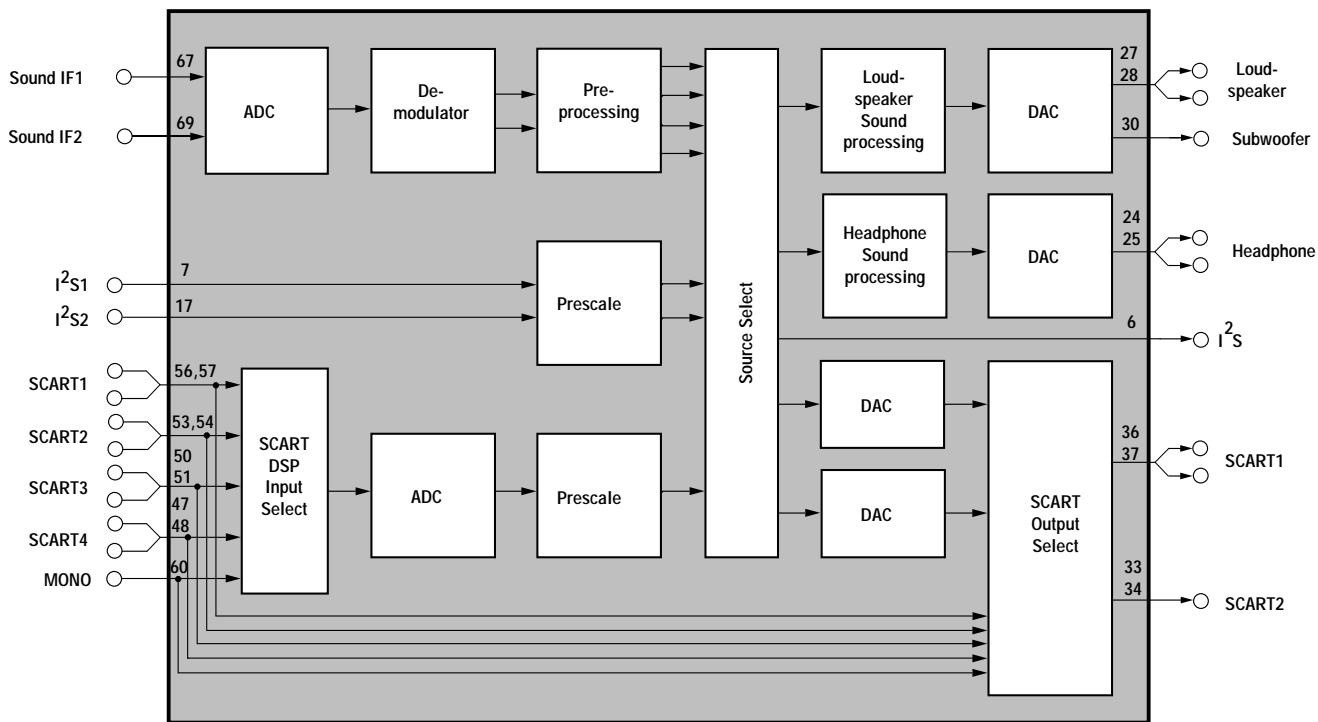
IV100 - TDA9178



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

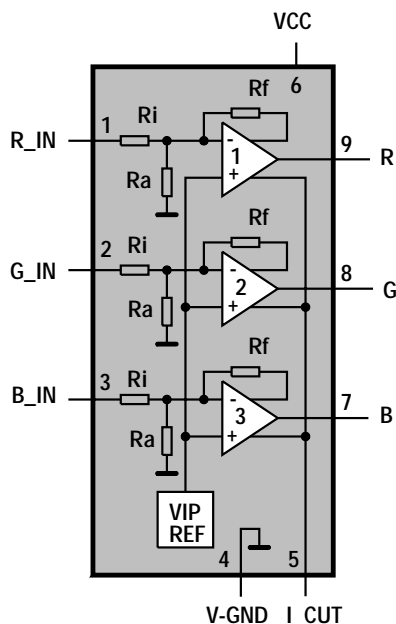
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -
 PIASTRA PICCOLI SEGNAli - PLACA PEQUEÑA SEÑAL

IA001 - MSP 34X0G



VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG -
 ELABORAZIONE VIDEO - TRATAMENTO VIDEO

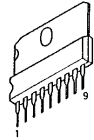
IB001 - TDA6108JF



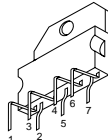
**LIST OF ABBREVIATIONS - LISTE DES ABBREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABBREVIACIONES**

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

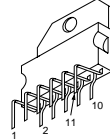
**INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
 CIRCUITOS INTEGRADOS Y TRANSISTORES**



TDA 8139
TDA6111Q
TEA5101B



TDA 8177



TDA7269



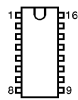
4N25TV



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



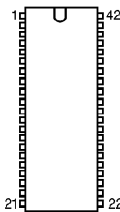
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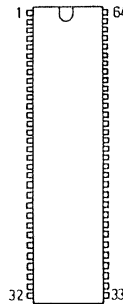
STV2145



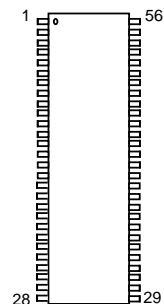
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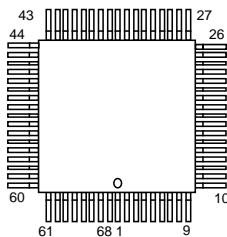
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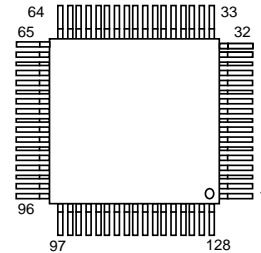
MPS3400
MPS3410



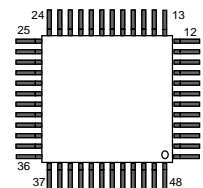
STV2040
STV2162



MS3400C-PS
MSP3410D-PS
ST90R92



IC-QP128



MC141627



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



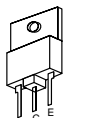
BC368
BC639
BF421
BF 422
BF423



BC327
BC 337
BC547B
BC557B
BC 548B
BC 558B



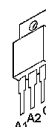
2SA1837
2SC4793
2SC3675
BD 241
TIP122



BUL810TH
BUV48CFITH16
BW93CFI
BW94CFI
ON4977



7805
7812
L7912CV



BT806 -600C



STP6 NA60F1
STP22NE03L
2SK1460

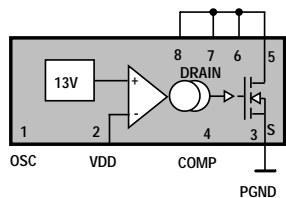


TR03-400T

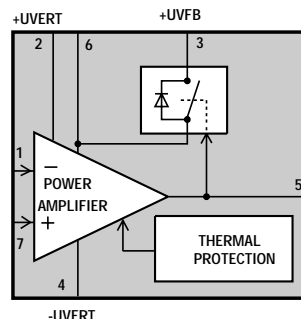
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIEDER
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

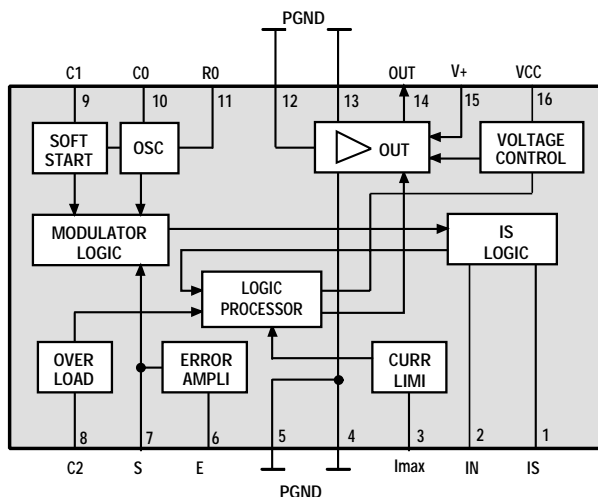
IP020 - VIPER20DIP



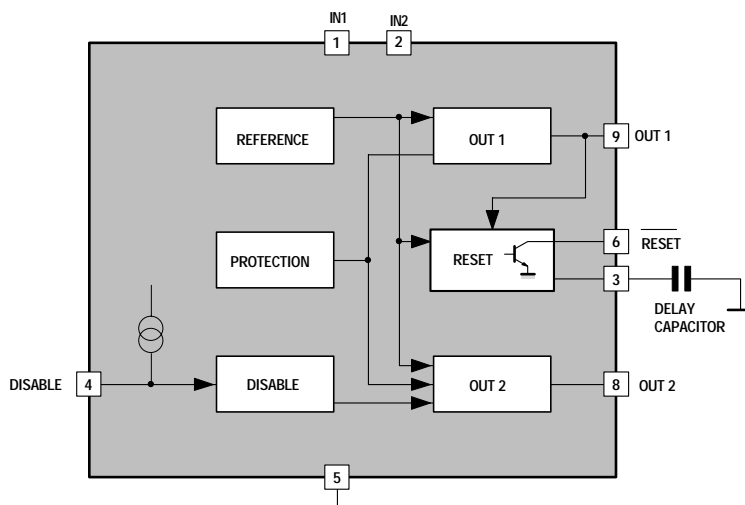
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IP050 - TEA2262



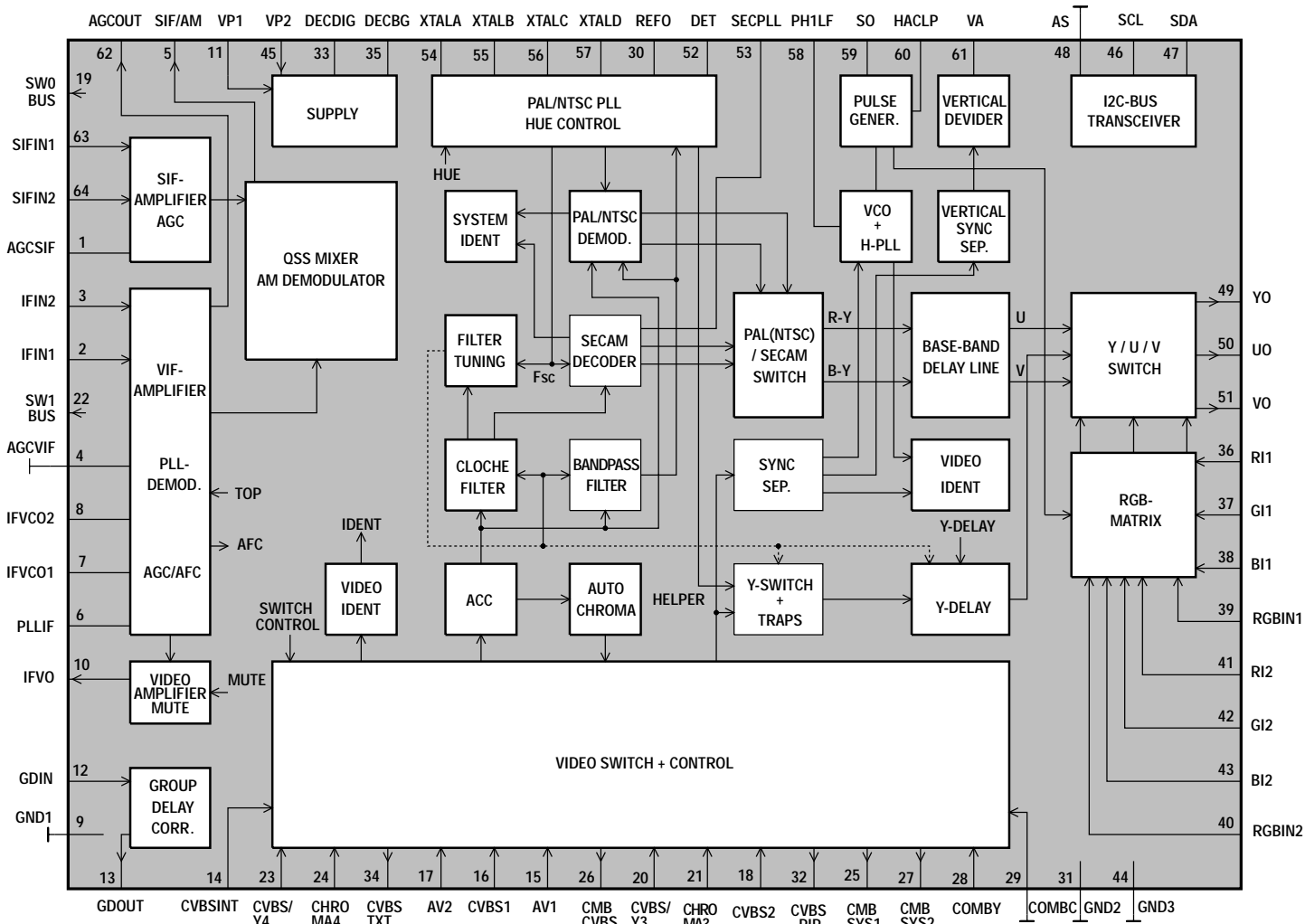
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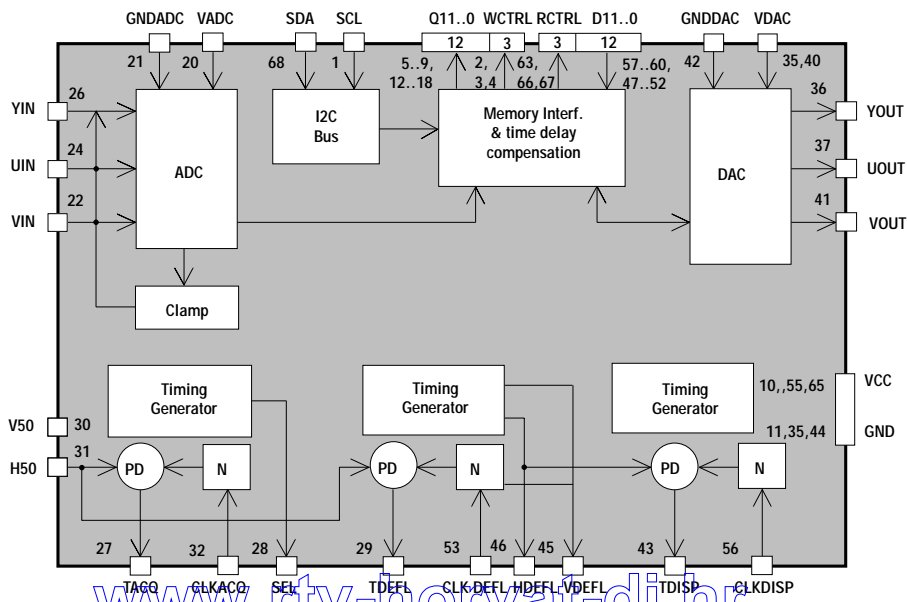
INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

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

IC001 - TDA9321H



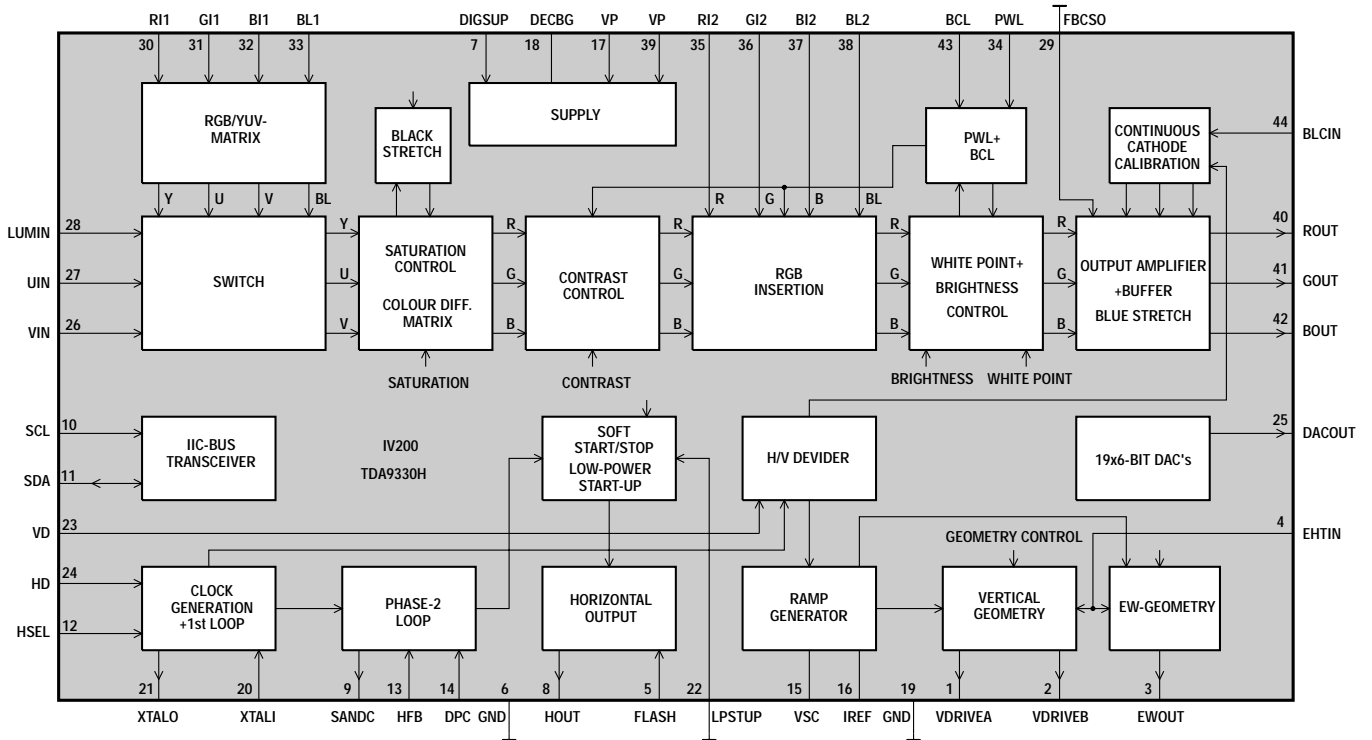
IU308 - DMU0



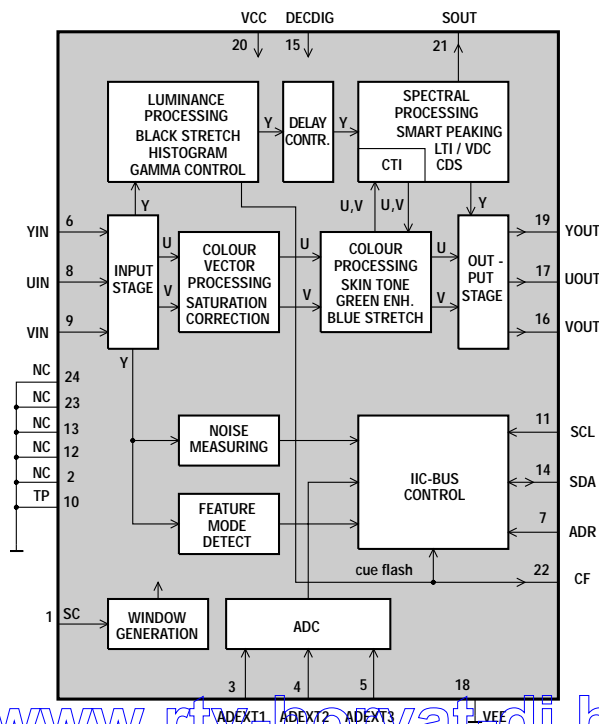
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

IV200 - TDA9330H



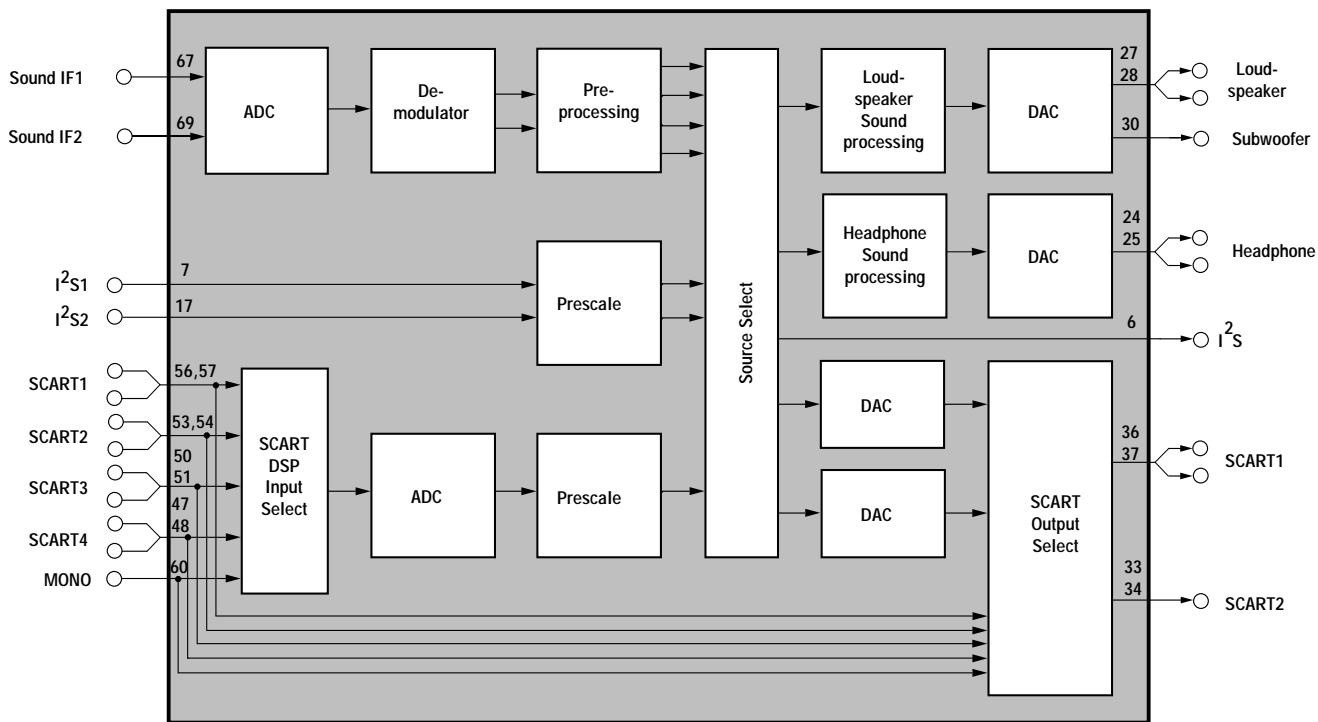
IV100 - TDA9178



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

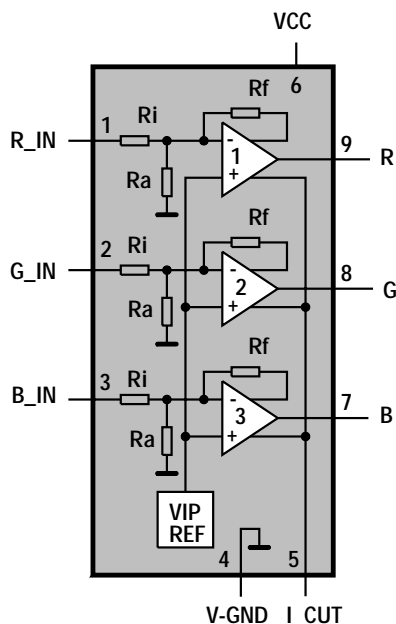
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -
 PIASTRA PICCOLI SEGNAli - PLACA PEQUEÑA SEÑAL

IA001 - MSP 34X0G



VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG -
 ELABORAZIONE VIDEO - TRATAMENTO VIDEO

IB001 - TDA6108JF





SYSTÈME DE CODAGE POUR RÉPARATION

EACEM-IRIS

TABLE DES CODES SYMPTÔMES

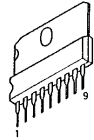


CODE CONDITION	CODE SYMPTÔME	CODE SYMPTÔME ETENDU (*1)	1 PAS DE FONCTION	2 NIVEAU	3 QUALITÉ	4 BRUIT		
1	CONSTANT							
2	INTERMITTENT							
3	APRÈS UN CERTAIN DELAI							
4	A FROID							
5	A CHAUD							
6	À LA MISE EN ROUTE							
7	VIBRATIONS							
8	EN MILIEU HUMIDE/PLUIE/NEIGE							
9	APRÈS UNE CHUTE/ DOMMAGE DE TRANSPORT							
10	APRÈS UN COUP DE FOUDRE							
11	SEULEMENT CERTAINS STATIONS/ MODE/ CANAL/ FRÉQUENCES/ RÉSEAU(X)							
12	QUELQUES STANDARDS SEULEMENT							
13	SUR UN SEUL CANAL							
14	QUELQUES ENTRÉES SEULEMENT							
15	QUELQUES SORTIES SEULEMENT							
16	EN VIELLE OU À L'ARRÊT							
17	JU AU POINT EDIT							
18	LORS QU'ON CONNECTE							
19	TRACES DE LIQUIDE							
20	PEU APRÈS LA MISE EN ROUTE							
21	N'APRÈS COPIE							
22	SOUS CONDITIONS NON NORMALES DE CHARGE							
23	LORS DE L'ARRÊT							
24	GENERALITES							
25	COMMUNICATION							
26	IMAGE							
27	COULEUR							
28	SON							
29	MÉCANISMES							
30	TRAITEMENT DE DONNÉES							
31	IMPRESSION/NUMÉRIISATION (SCAN)							
32	110	PROBLEME D'ALIMENTATION OU PAS DE FONCTION	120	PROBLEME DE CHARGEMENT	130	DEFAUT D'AFFICHAGE	140	BRUITS PARTICULIERS
33	111	PAS D'ALIMENTATION	121	PAS DE CHARGEMENT DE LA BATTERIE	131	DEFAUT D'AFFICHAGE	141	BRUITS PARTICULIERS PAR DÉCHARGE DU TUBE CATHODIQUE
34	112	PAS D'ALIMENTATION AVEC ADAPTATEUR SECTEUR	122	CHARGEMENT INCOMPLÈT DE LA BATTERIE	132	LAMP/LED DEFECTUEUX	142	BRUITS PARTICULIERS PAR DÉCHARGE DE LA THT
35	113	PAS D'ALIMENTATION AVEC FILS SECHES	123	TEMPS DE CHARGE TROP LONG	133	VU/METRE DEFECTUEUX	143	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
36	114	PAS D'ALIMENTATION AVEC BATTERIE	12X	AUTRE PROBLEME DE CHARGE	134	AFFICHAGE NON CORRECT	144	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
37	115	RECHARGE D'ACCORD			135	DEFECTUEUX	145	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
38	116	PAS D'ALIMENTATION AVEC BATTERIE SOLAIRE			136	AFFICHAGE MÉCANIQUE D'ACCORD	146	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
39	117	PAS D'ALIMENTATION AVEC BATTERIE VOITURE			137	AFFICHAGE DU TIME CODE DEFECTUEUX	147	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
40	118	COURTE DURÉE DE BATTERIE			138	AFFICHAGE DU TIME CODE D'ACCORD	148	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
41	119	NE S'ÉTEINT PAS			139	AFFICHAGE DU TIME CODE D'ACCORD	149	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
42	120	PAS DE MISE EN ROUTE À PARTIR DE LA POSITION NELLE			140	AFFICHAGE DU TIME CODE D'ACCORD	150	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
43	121	UNIQUEMENT ALIMENTATION: PAS DE FONCTIONNEMENT			141	AFFICHAGE DU TIME CODE D'ACCORD	151	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
44	122	MARCHE/ARRÊT CYCLOQUES			142	AFFICHAGE DU TIME CODE D'ACCORD	152	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
45	123	FUSIBLE EXTÉRIEUR (SECTEUR) FONDU			143	AFFICHAGE DU TIME CODE D'ACCORD	153	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
46	124	L'APPAREIL S'ARRÊTE PAR LUI-MÊME			144	AFFICHAGE DU TIME CODE D'ACCORD	154	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
47	125	PROBLEME DE BATTERIE DE SAUVEGARDE			145	AFFICHAGE DU TIME CODE D'ACCORD	155	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
48	126	NE FONCTIONNE PAS			146	AFFICHAGE DU TIME CODE D'ACCORD	156	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
49	127	PAS D'ARRÊT À MISE EN ROUTE AUTOMATIQUE			147	AFFICHAGE DU TIME CODE D'ACCORD	157	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
50	128	INTERRUPTEUR/FUSIBLE DE PROTECTION SE DÉCLINENT			148	AFFICHAGE DU TIME CODE D'ACCORD	158	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
51	129	BATTERIE RECHARGEABLE NON RECONNUE			149	AFFICHAGE DU TIME CODE D'ACCORD	159	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
52	130	AUTRE PROBLEME D'ALIMENTATION			150	AFFICHAGE DU TIME CODE D'ACCORD	160	BRUITS PARTICULIERS DÔS À L'ENSTRES/LE/ CROUQUÉMENT DU TIROIR
53	210	PAS DE RECEPTION/CONNEXION	220	PROBLEME DU NIVEAU DE RECEPTION/CONNEXION	230	PROBLEME DE TRANSMISSION/CONNEXION	240	COMMUNICATION BRUITÉE
54	211	PAS DE RECEPTION AM	221	RECEPTION AM FAIBLE	231	PAS D'EMISSION/CONNEXION	241	BRUIT DE LIGNE
55	212	PAS DE RECEPTION FM	222	RECEPTION FM FAIBLE	232	RECEPTION TROP FAIBLE/CONNEXION	242	OSCILLATION
56	213	PAS DE RECEPTION AC	223	RECEPTION AC FAIBLE	233	EMISSION TROP FORTE	243	INTERFERENCE ENTRE STATIONS
57	214	PAS DE RECEPTION HF	224	RECEPTION HF FAIBLE	234	PAS DE RECEPTION ENTRE LA BASE ET LE COMBINÉ/PORTEABLE	244	RECEPTION DE TRANSMISSION OU RECEPTION BRUITÉE
58	215	PAS DE RECEPTION VLF	225	RECEPTION VLF FAIBLE	235	TRANSMISSION FAIBLE ENTRE LA BASE ET LE COMBINÉ/PORTEABLE	245	
59	216	PAS DE RECEPTION SATELLITE	226	RECEPTION SATELLITE FAIBLE	236	PAS DE TRANSMISSION IRRADIÉE	246	
60	217	PAS DE RECEPTION SUR HAUTE DÉFINITION	227	RECEPTION HQS FAIBLE	237	PROBLEME DANS LES SENS	247	
61	218	PAS DE RECEPTION SUR DIFFUSION NUMÉRIQUE	22A	RECEPTION DE MAUVAISE QUALITÉ SUR DIFFUSION	238	MODEM PÈRE LA LIGNE PENDANT LA CONNEXION	248	
62	219	PAS DE RECEPTION IRRADIÉE	22B	RECEPTION IRRADIÉE DE MAUVAISE QUALITÉ	239	AUTRE PROBLEME DE TRANSMISSION/CONNEXION	249	
63	220	PAS DE TONALITÉ	22C	RECEPTION DE MAUVAISE QUALITÉ SUR DIFFUSION	240		250	COMMUNICATION INSTABLE
64	221	PAS DE TONALITÉ	22D	RECEPTION IRRADIÉE DE MAUVAISE QUALITÉ	241		251	DÉRIVE D'ACCORD
65	222	PAS DE LIASON FADOM/DEM	22E	RECEPTION DE MAUVAISE QUALITÉ SUR DIFFUSION	242		252	FADING/DISPERSION DU SIGNAL
66	223	MODEM NE REÇON PAS/PAUS DE PORTEUSE	22F	RECEPTION DE MAUVAISE QUALITÉ SUR DIFFUSION	243		253	RECEPTION INTERMITTENTE/INTERRUPTION DU SIGNAL
67	224	PAS DE CONNEXION RÉSEAU / L'INITIALISATION RÉSEAU NE RÉUSSIT PAS	22G	RECEPTION DE MAUVAISE QUALITÉ SUR DIFFUSION	244		254	CONNEXION INSTABLE OU INSTABLE AVEC AFFICHAGE DE SIGNAL FAIBLE
68	225	AUTRE PROBLEME DE RECEPTION	22H	RECEPTION DE MAUVAISE QUALITÉ SUR DIFFUSION	245		255	AUTRE PROBLEME D'INSTABILITÉ DE RECEPTION OU TRANSMISSION
69	310	ABSENCE D'IMAGE	320	DEFAUT DU NIVEAU D'IMAGE	330	MAUVAISE QUALITÉ D'IMAGE	340	IMAGE INSTABLE
70	311	ABSENCE D'IMAGE EN MODE EE	321	IMAGE TROP SOMBRE	331	DEFINITION ERRORE DE L'IMAGE	341	NEIGE
71	312	ABSENCE D'IMAGE EN LIÈVRE	322	IMAGE TROP CLAIR	332	FOURTEUR/ARRÊT DE L'IMAGE	342	POMPAGE DE L'IMAGE
72	313	ABSENCE D'IMAGE DANS LE VISEUR	323	CONTRASTE FAIBLE	333	FANGES SUR L'IMAGE	343	JITTER DANS L'IMAGE
73	314	ABSENCE D'IMAGE/TRAJEC SEULE	324	LIÈVRE/ARRÊT EXCESSIF	334	LIÈVRE/ARRÊT EXCESSIF	344	VALLETS DANS L'IMAGE (HORIZONTAL OU VERTICAL)
74	315	PAS DE TRANSMISSION D'IMAGE	325	LINÉARITÉ ET GÉOMÉTRIE ERRORE	335	ROULEMENT DANS L'IMAGE	345	EFFACEMENT INOPINE DE L'IMAGE
75	316	LIGNE HORIZONTALE SEULEMENT	326	OMBRÉ	336	HALOS DANS L'IMAGE	346	ENREGISTREMENT D'UNE SÈCLE TRAME
76	317	PAS D'IMAGE SUR LE LCD	32X	IMAGE TROUQUÉE	337	CENTRAGE ERRORE DE L'IMAGE	347	ENREGISTREMENT D'UN OBJET EN MOUVEMENT
77	318	PAS D'AFFICHAGE SUR LE ZÈME MONITEUR			338	IMAGE INCLINÉE	348	BRUIT DE COMBUSTION DES TÊTES
78	319	AUTRE PROBLEME D'ABSENCE D'IMAGE			339	V-SIZE INSUFFISANT	349	BRUIT DE SURMODULATION
79	320				340	H-ZIZE INSUFFISANT	350	BRUIT DE MOSAÏQUE
80	321				341	AUTRE PROBLEME DE GÉOMÉTRIE D'IMAGE	351	IMAGE COCQ
81	322				342		352	SALT/REPRODUCTION D'IMAGE
82	323				343		353	AUTRE PROBLEME D'INSTABILITÉ DE L'IMAGE
83	324				344		354	
84	325				345		355	
85	326				346		356	
86	327				347		357	
87	328				348		358	
88	329				349		359	
89	330				350		360	
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91	332				352		362	
92	333				353		363	
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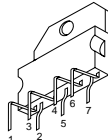
**LIST OF ABBREVIATIONS - LISTE DES ABBREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABBREVIACIONES**

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

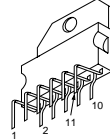
**INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
 CIRCUITOS INTEGRADOS Y TRANSISTORES**



TDA 8139
TDA6111Q
TEA5101B



TDA 8177



TDA7269



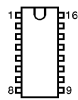
4N25TV



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



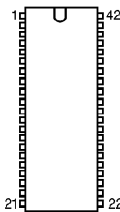
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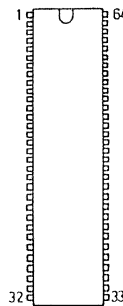
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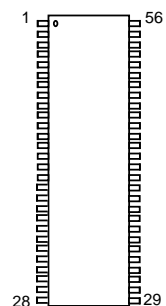
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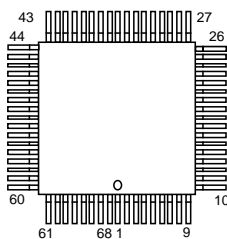
TDA9811



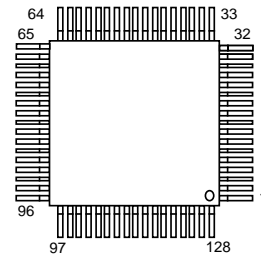
MPS3400
MPS3410



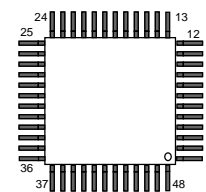
STV2040
STV2162



MS3400C-PS
MSP3410D-PS
ST90R92



IC-QP128



MC141627



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



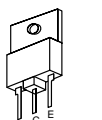
BC368
BC639
BF421
BF 422
BF423



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

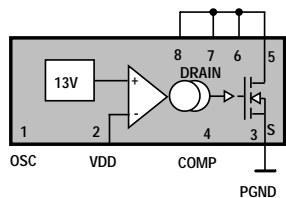


TR03-400T

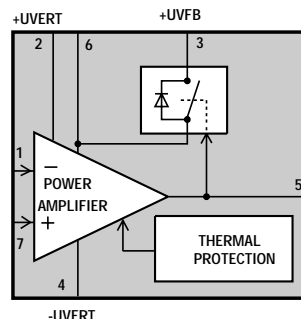
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIEDER
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

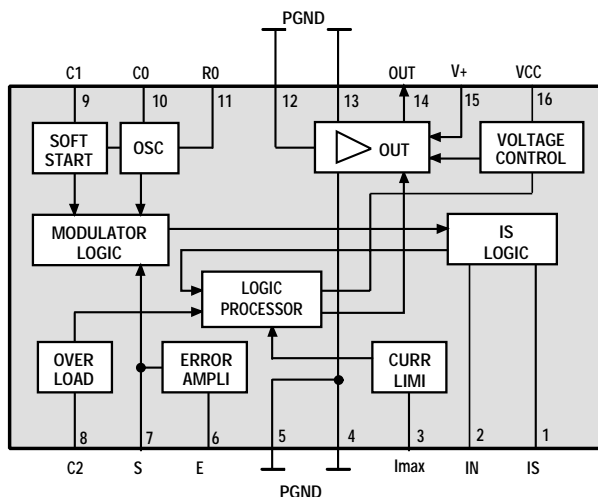
IP020 - VIPER20DIP



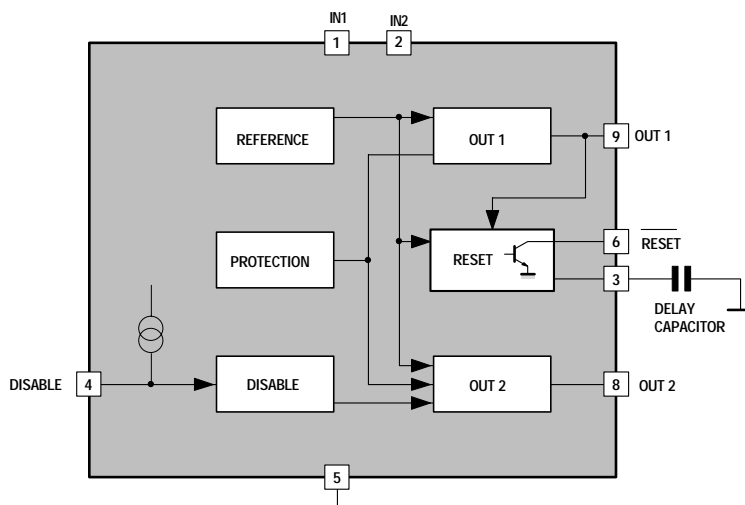
IF001 - TDA8177F



IP050 - TEA2262



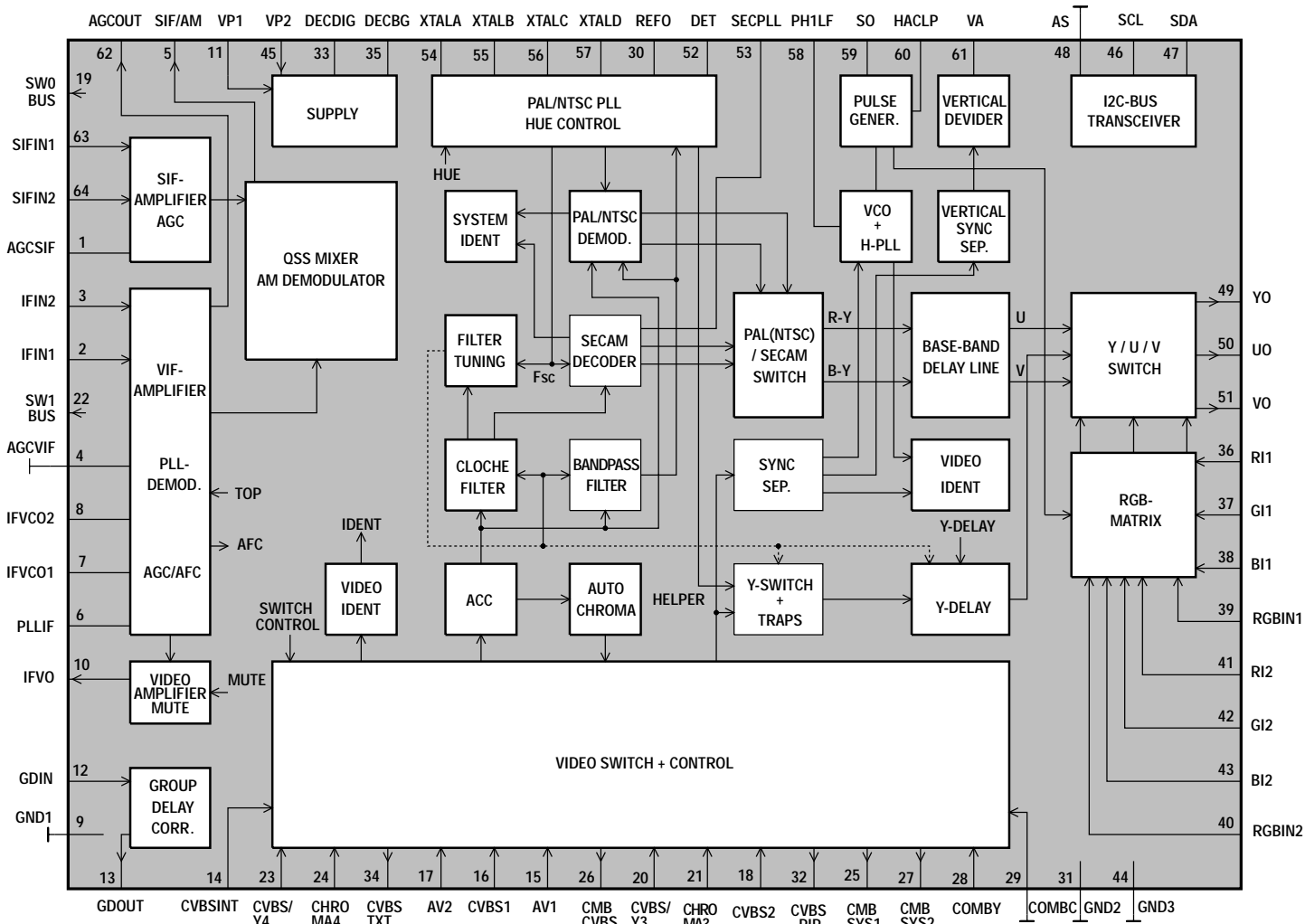
IP220 - TDA8139



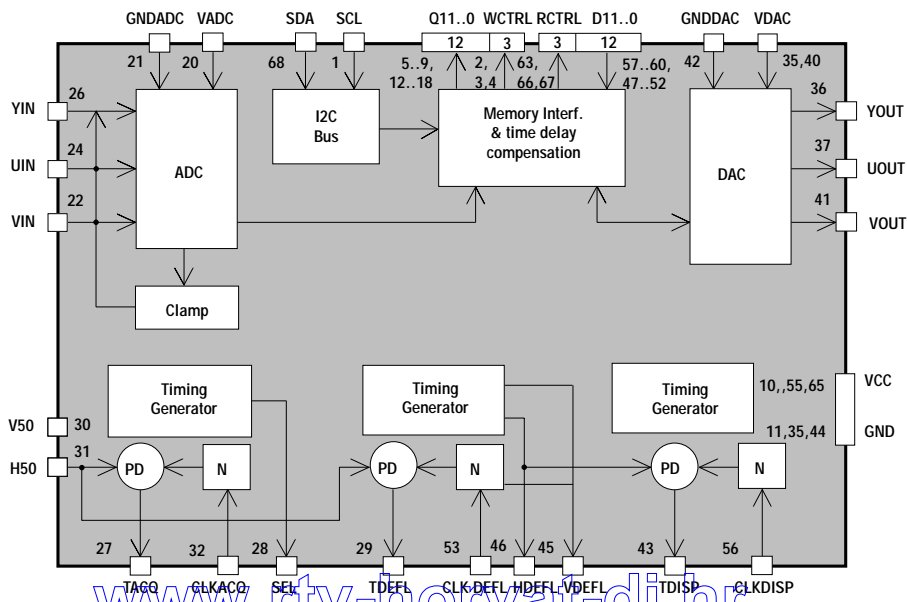
INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

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

IC001 - TDA9321H



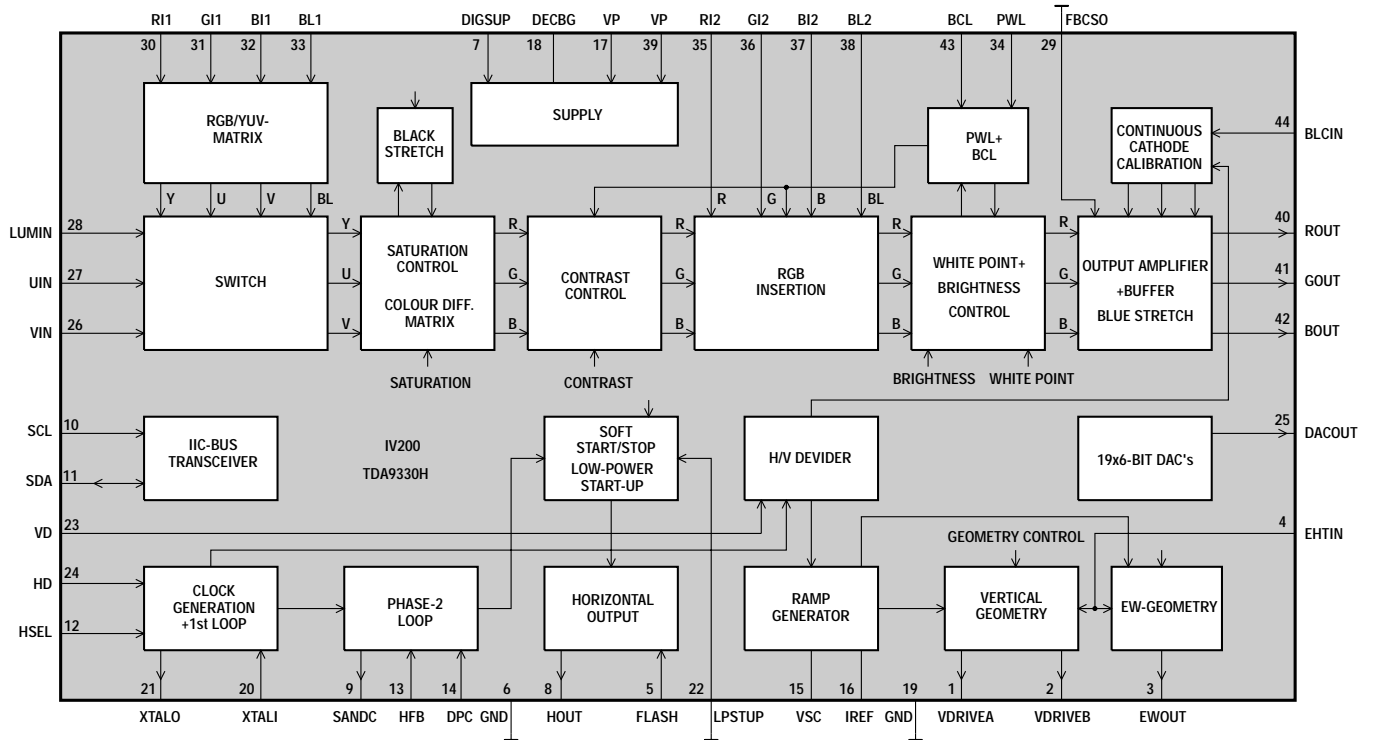
IU308 - DMU0



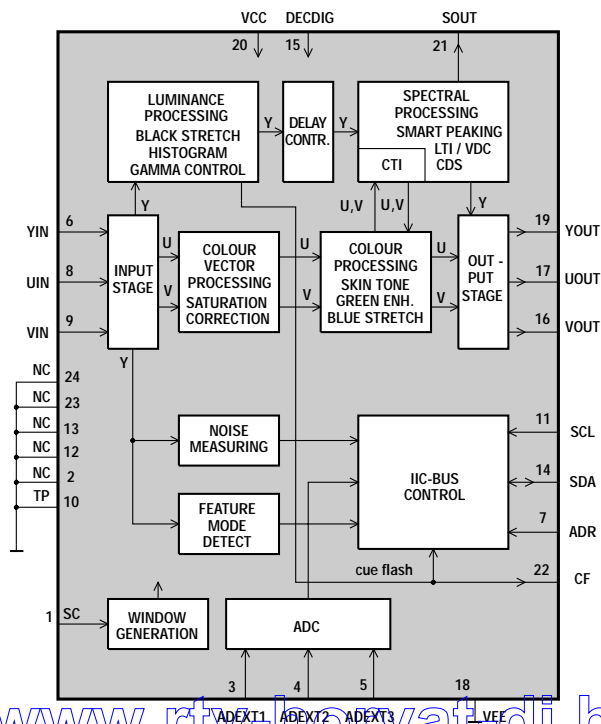
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

IV200 - TDA9330H



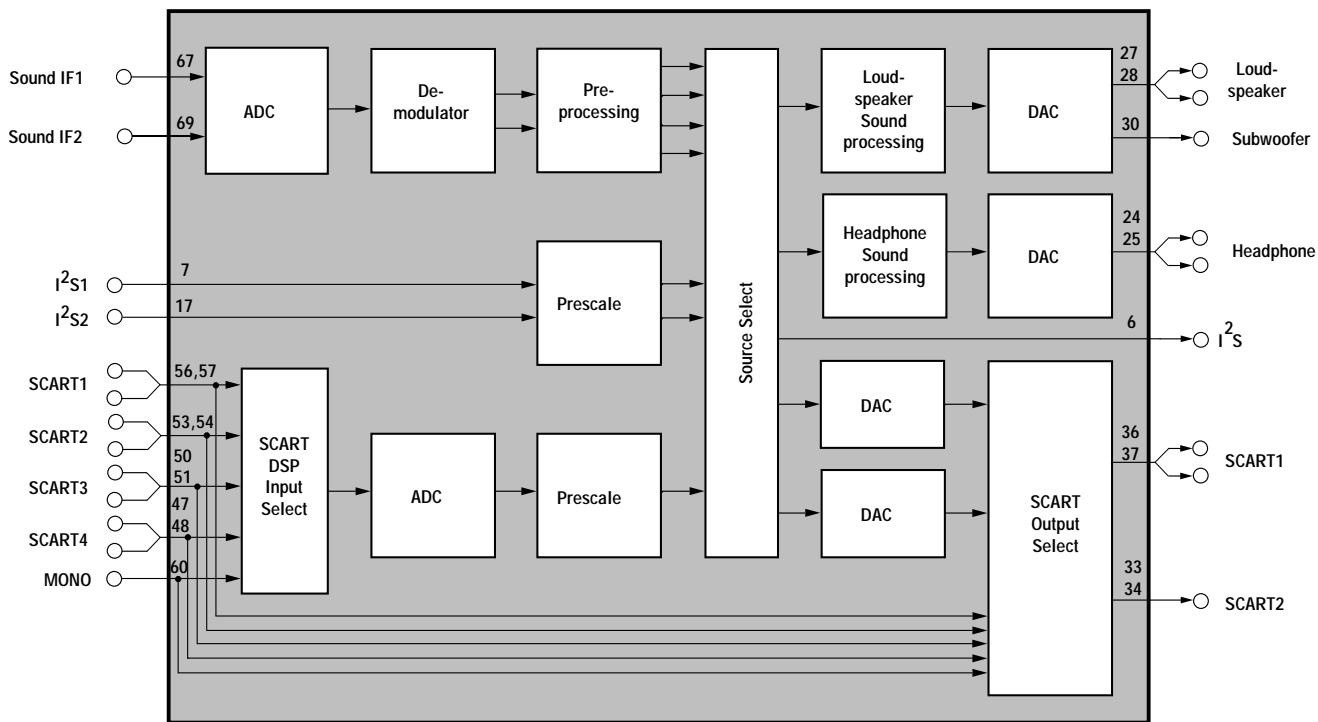
IV100 - TDA9178



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

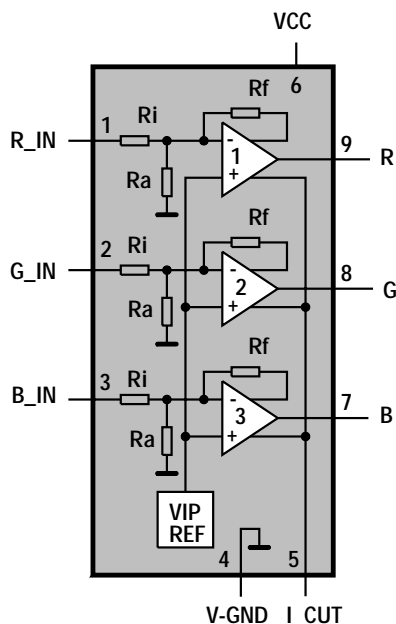
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -
 PIASTRA PICCOLI SEGNAli - PLACA PEQUEÑA SEÑAL

IA001 - MSP 34X0G



VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG -
 ELABORAZIONE VIDEO - TRATAMENTO VIDEO

IB001 - TDA6108JF





EACEM-IRIS REPARATURCODESYSTEM

SYMPTOMCODE-TABELLE



1	2	3	4
STANDIG VORHANDEN	KEINE FUNKTION	PEGEL	QUALITÄT
100	NETZTELPROBLEM ODER KEINE FUNKTION	120	AUFLADUNGSFEHLER
110	KEIN STROM MIT NETZANSCHLUSS	121	FEHLERBEHEBUNG DER BATTERIE
120	KEIN STROM MIT NETZADAPTER	122	UNVOLLSTÄNDIGE AUFLADUNG DER BATTERIE
130	KEIN STROM MIT TROCKENBATTERIE	123	LADENZEIT ZU LANG
140	KEIN STROM MIT AUFLADBARER BATTERIE	124	ANDERS: AUFLADUNGSPROBLEM
150	KEIN STROM MIT SOLARBATTERIE	125	FEHLERHAFT ELEKTRONISCHE BESCHÄDIGUNG FUNKTION
160	KEIN STROM MIT AUTOBATTERIE	126	KURZE FUNKTIONSDAUER / BATTERIEDAUER
170	KEIN AUSSCHALTEN	127	KEIN AUSSCHALTEN
180	KEIN AUSSCHALTEN	128	KEIN AUSSCHALTEN
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1000	KEIN AUSSCHALTEN	210	KEIN AUSSCHALTEN

5	6	7	8
INSTABIL	AUFNAHME UND PHYSISCHE PROBLEME	SONDERFUNKTION	SONSTIGES
150	FERNBEDIENUNGS FEHLERHAFT	160	SCHADEN AN GEHÄUSE / AUßERES
151	FERNBEDIENUNG KEINE FUNKTION	161	BESCHÄDIGTES / DEFORMIERTES GEHÄUSE / BEDIENTEIL
152	FUNKTION ODER FERNBEDIENUNG	162	BESCHÄDIGTER GRIF / SCHLAUFE
153	PROGRAMMIERUNG / LERNBEFRIEDER	163	SCHADEN AN TASTEN / BEDIENKNOPF / TASTATUR
154	SCHWACHE EMPFINDLICHKEIT DER FERNBEDIENUNG (EMPFÄNGER / SENDE)	164	SCHADEN AN KLAPPE / DECKEL
155	ANDERS: FERNBEDIENUNGS-PROBLEM	165	SCHADEN AN DICHTUNG
156	ANDERS: FERNBEDIENUNGS-PROBLEM	166	BAUTTEILE VERFÄHRUNG / BUCHSE / ANSCHLUSSLEISTE / STECKERVERBINDER
157	ANDERS: FERNBEDIENUNGS-PROBLEM	167	SCHADEN AN OBJEKTIV
158	ANDERS: FERNBEDIENUNGS-PROBLEM	168	SCHADEN AN TONABNEHMER / NADEL
159	ANDERS: FERNBEDIENUNGS-PROBLEM	169	SCHADEN AN ANTEILE
160	ANDERS: FERNBEDIENUNGS-PROBLEM	170	SCHADEN AN BILDROHRE / SUCHER / LCD-ANZEIGE
161	ANDERS: FERNBEDIENUNGS-PROBLEM	171	FEHLERHAFTES TEIL ODER ZERBRUT
162	ANDERS: FERNBEDIENUNGS-PROBLEM	172	AUFGEDRUCKTE MARKIERUNGEN GLEICHST / ABGELOST
163	ANDERS: FERNBEDIENUNGS-PROBLEM	173	AUDIBLEICHE OBERFLÄCHENSCHADUNG (BLASEN WERDEN/ABGELOST/VERROSTET/VERKRATZT)
164	ANDERS: FERNBEDIENUNGS-PROBLEM	174	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
165	ANDERS: FERNBEDIENUNGS-PROBLEM	175	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
166	ANDERS: FERNBEDIENUNGS-PROBLEM	176	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
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176	ANDERS: FERNBEDIENUNGS-PROBLEM	186	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
177	ANDERS: FERNBEDIENUNGS-PROBLEM	187	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
178	ANDERS: FERNBEDIENUNGS-PROBLEM	188	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
179	ANDERS: FERNBEDIENUNGS-PROBLEM	189	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
180	ANDERS: FERNBEDIENUNGS-PROBLEM	190	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
181	ANDERS: FERNBEDIENUNGS-PROBLEM	191	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
182	ANDERS: FERNBEDIENUNGS-PROBLEM	192	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
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187	ANDERS: FERNBEDIENUNGS-PROBLEM	197	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
188	ANDERS: FERNBEDIENUNGS-PROBLEM	198	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
189	ANDERS: FERNBEDIENUNGS-PROBLEM	199	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN
190	ANDERS: FERNBEDIENUNGS-PROBLEM	200	GERÄT WIRD SEHR HEIß / TIELE SCHMELZEN

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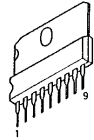
ACHTUNG

ERWEITERTE SYMPTOMCODE "X" CODES ("*-X") NUR VERWENDET WENN IN DER SYMPTOMGRUPPE KEINE GEEIGNETE SYMPTOM-BEZEICHNUNG ZULIEGT IST

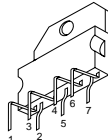
**LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABBREVIACIONES**

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

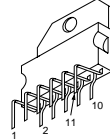
**INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
 CIRCUITOS INTEGRADOS Y TRANSISTORES**



TDA 8139
TDA6111Q
TEA5101B



TDA 8177



TDA7269



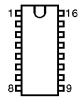
4N25TV



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



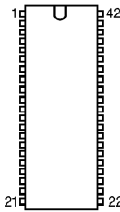
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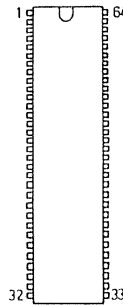
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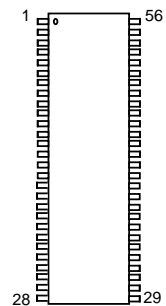
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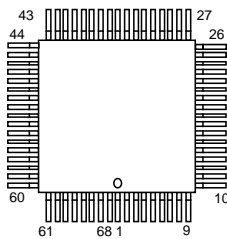
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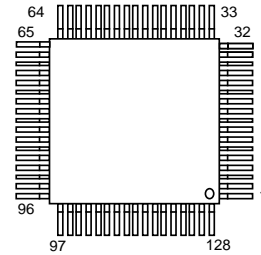
MPS3400
MPS3410



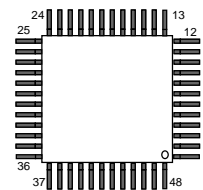
STV2040
STV2162



MS3400C-PS
MSP3410D-PS
ST90R92



IC-QP128



MC141627



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



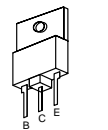
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BC639
BF421
BF 422
BF423



BC327
BC 337
BC547B
BC557B
BC 548B
BC 558B



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2SC4793
2SC3675
BD 241
TIP122



BUL810TH
BUV48CFITH16
BW93CFI
BW94CFI
ON4977



7805
7812
L7912CV



BT806 -600C



STP6 NA60F1
STP22NE03L
2SK1460

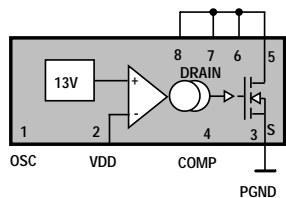


TR03-400T

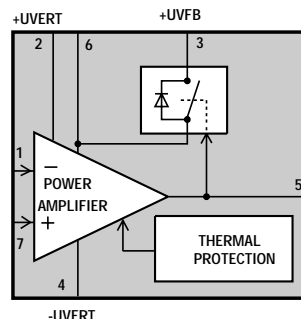
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIEDER
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

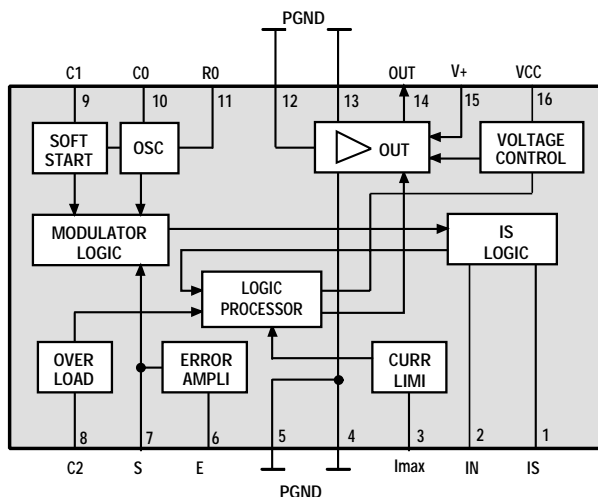
IP020 - VIPER20DIP



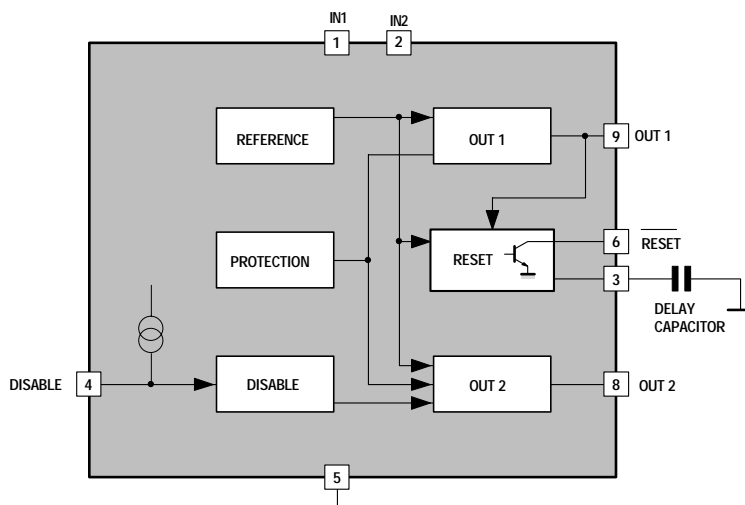
IF001 - TDA8177F



IP050 - TEA2262



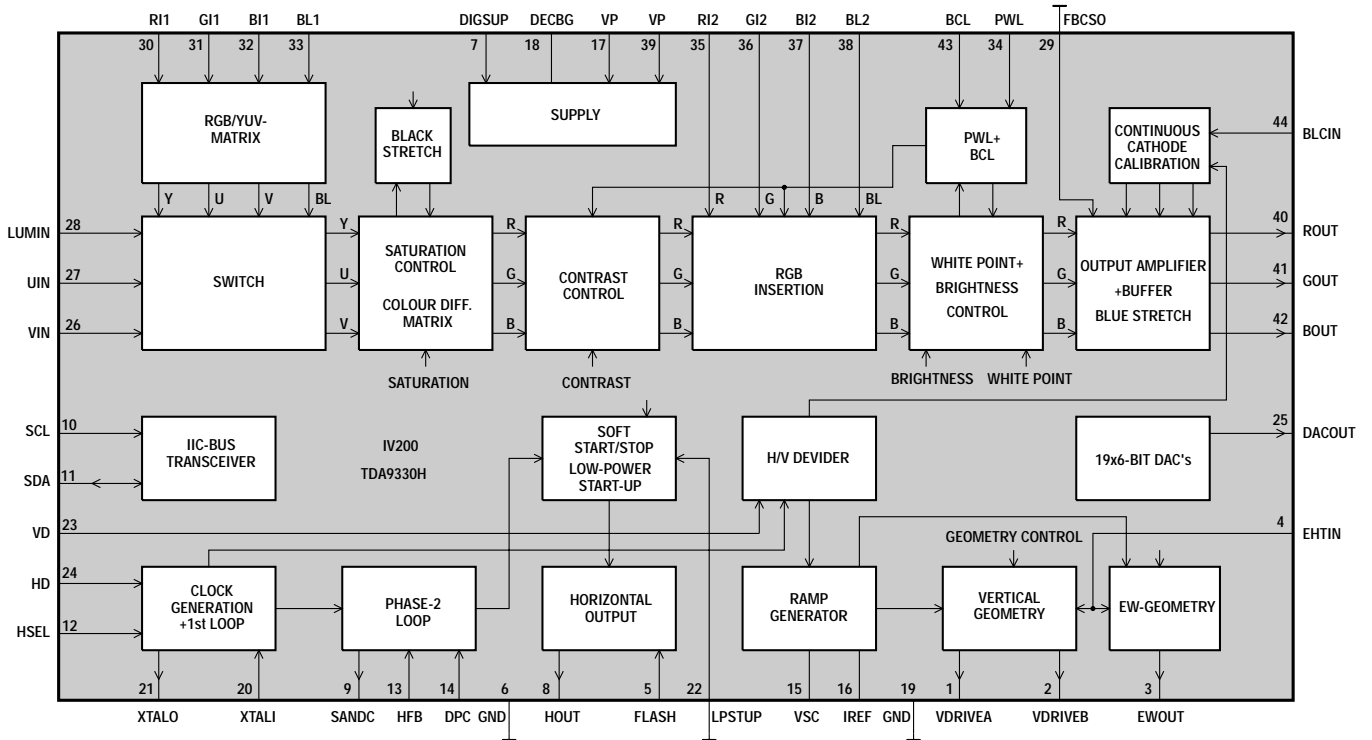
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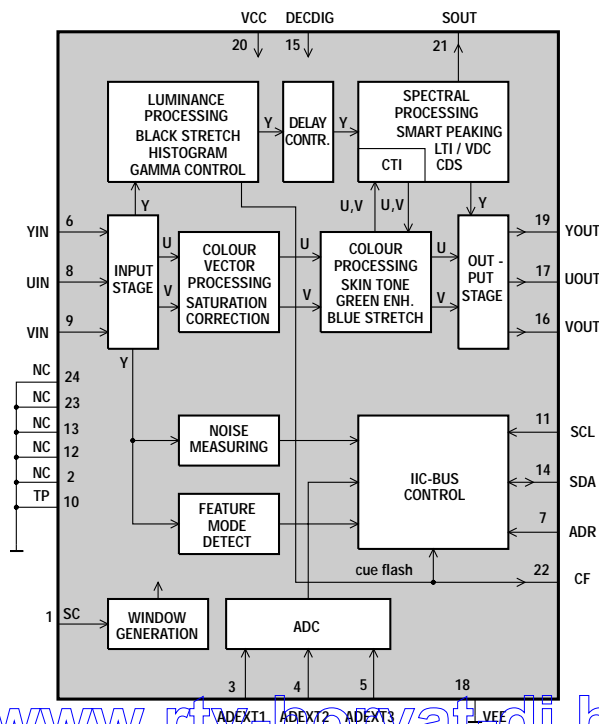
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

IV200 - TDA9330H



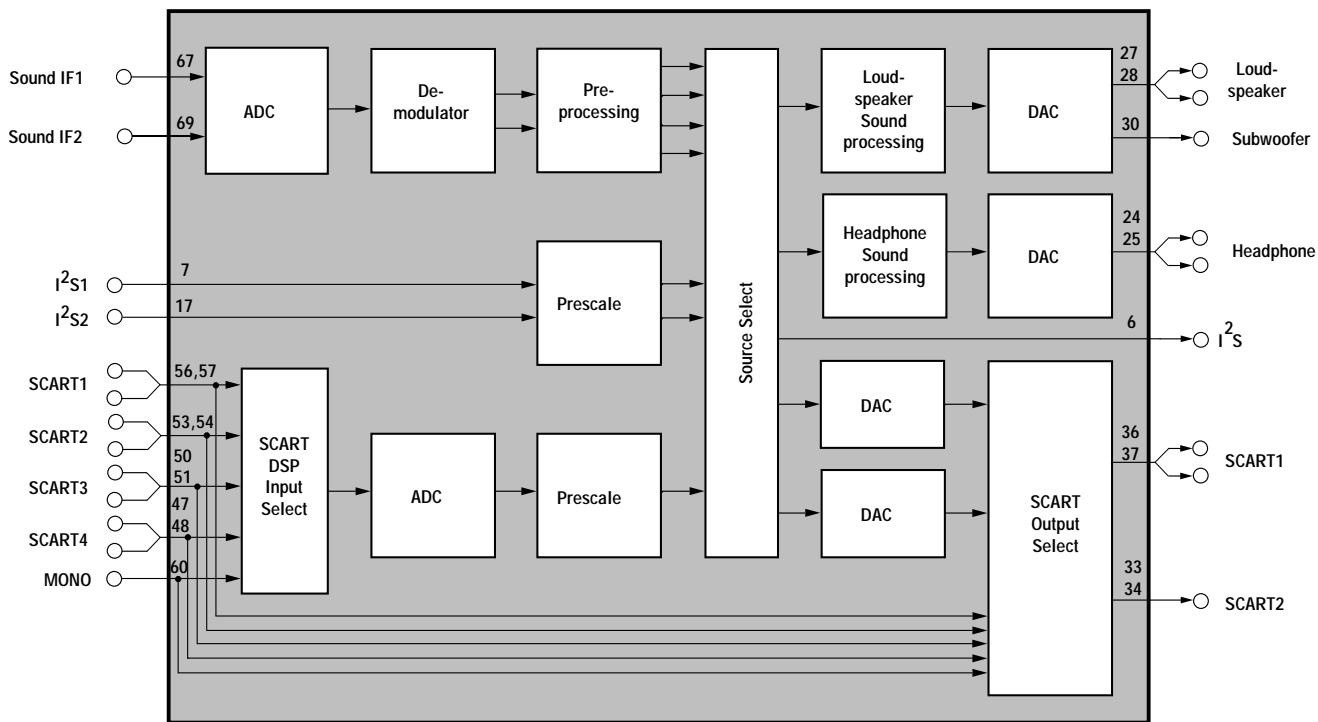
IV100 - TDA9178



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

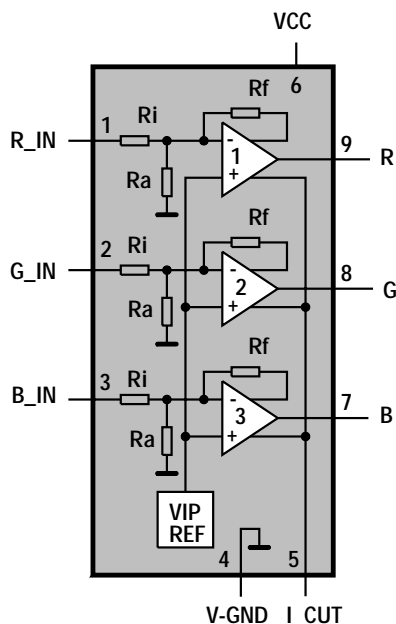
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -
 PIASTRA PICCOLI SEGNAli - PLACA PEQUEÑA SEÑAL

IA001 - MSP 34X0G



VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG -
 ELABORAZIONE VIDEO - TRATAMENTO VIDEO

IB001 - TDA6108JF

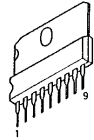


CODICE SINTOMO ESTESO (*)		CONDIZIONE				CONDIZIONE				CONDIZIONE					
CONDIZIONE		CONDIZIONE				CONDIZIONE				CONDIZIONE					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1		2		3		4		5		6		7		8	
NON FUNZIONANTE		LIVELLO		QUALITÀ		RUMORE		INSTABILE		DANNI FISICI O PROBLEMI DI REGISTRAZIONE		FUNZIONE SPECIALE		ALTRE CONDIZIONI	
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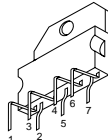
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● AV1_8	PIN_8 DETECTOR	● INF_POW_FAIL	POWER FAIL INFORMATION
● AV_LINK	AV_LINK DATAS VCR/TV	● IR	INFRARED RECEIVER
● AV_R_OUT	AUDIO RIGHT-OUT	● LDR	LED DISPLAY
● AV_L_OUT	AUDIO LEFT-OUT	● MUTE	MUTES AUDIO AMPLIFIERS
● AV_R_IN	AUDIO RIGHT-IN	● NMI	NON MASKABLE INTERRUPT
● AV_L_IN	AUDIO LEFT-IN	● PAN_SWITCH	SIGNAL FOR PANORAMA CIRCUIT
● AV_B	BLUE SIGNAL FROM AV	● PHI2_REF	PHI2 REFERENCE SIGNAL
● AV_G	GREEN SIGNAL FROM AV	● PIF	PICTURE IF SIGNAL
● AV_R	RED SIGNAL FROM AV	● PKS	PEAK SENSING
● AV_C_IN	CHROMA-IN	● PO	POWER ON
● AV_FB	FAST BLANK SIGNAL FROM AV SCART	● PWM	PULSE WIDTH MODULATION
● AV_Y_IN	VIDEO-IN	● RES_MSP	MSP RESET
● BEAM_INFO	BEAM CURRENT INFORMATION	● RESET	RESET TO MICROPROCESSOR
● BLKCURR	CUT OFF CURRENT	● ROTATION	OUTPUT OF EARTH FIELD CORRECTION STAGE
● B_TXT	BLUE SIGNAL OUTPUT (TEXT)	● R_OUT	RED SIGNAL TO VIDEO AMPLIFIER
● B_OUT	BLUE SIGNAL TO VIDEO AMPLIFIER	● R_TXT	RED SIGNAL OUTPUT (TEXT)
● BREATHING	COMPENSATE BREATHING PICTURE SIGNAL	● PIF	PICTURE IF SIGNAL
● BSVM	BEAM SCAN VELOCITY MODULATION	● SIF	SOUND IF SIGNAL
● CNT1_20V	SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BV001- BL111)	● SSC	SUPER SAND CASTLE
● CNT2_20V	SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BR003- BP005)	● SSC_V_GUARD	SAFETY DATA GENERATED BY THE VERTICAL AMPLIFIER TDA8177F
● CRT	CATHODE RAY TUBE	● TRAP_INFO	BG/L,L',D/K K' I SWITCH
● CVBS	VIDEO	● +USYS	SYSTEM VOLTAGE
● CVBS_LB_DET	LETTERBOX VIDEO DETECTION	● +/- UA	SOUND VOLTAGE
● DEFL_SAFETY	SAFETY INFORMATION FROM DEFLECTION	● +UVERT	POSITIVE SUPPLY VERTICAL VOLTAGE
● DEGAUSS	DEGAUSS SIGNAL	● -UVERT	NEGATIVE SUPPLY VERTICAL VOLTAGE
● DPC	DYNAMIC PHASE COMPENSATION SIGNAL	● +UVFB	POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER STAGE
● EFC	EARTH FIELD CORRECTION	● +UVIDEO	VIDEO VOLTAGE FOR THE CRT BOARD
● EHT	EXTREMELY HIGH TENSION	● U_IN	U FROM CHROMA DECODER
● E.W_DRIVE	EAST - WEST DRIVE SIGNAL	● V_IN	V FROM CHROMA DECODER
● EW_PROT	SAFETY SIGNAL FROM DIODE MODULATOR	● V_DRIVE	VERTICAL DEFLECTION DRIVE SIGNAL
● FB DETEC	FAST BLANKING DETECT	● Y_IN	Y FROM CHROMA DECODER
● FB_TXT	FAST BLANKING (TEXT)	● 5 V	5V POWER SUPPLY SIGNAL BOARD
● FW ADJ.	FULL WHITE ADJUSTMENT	● 6 V	6V POWER SUPPLY
● G_OUT	GREEN SIGNAL TO VIDEO AMPLIFIER	● 5V_UP	MICROPROCESSOR SUPPLY VOLTAGE
● G_TXT	GREEN SIGNAL OUTPUT (TEXT)	● 10 V	10V POWER SUPPLY
● H_DRIVE	DRIVE SIGNAL FOR HORIZONTAL DEFLECTION	● 8 V	8V SUPPLY SIGNAL BOARD
● HEATER	HEATER OUTPUT FROM THE DST TO CRT	● 8V_STBY	8V STANDBY
● H DEFL. PROT.	HORIZONTAL DEFLECTION PROTECTION	● 40V	SUPPLY VOLTAGE TUNER
		● 20V	SUPPLY VOLTAGE HORIZONTAL DRIVER AND BSVM CRT

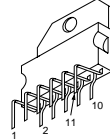
INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
 CIRCUITOS INTEGRADOS Y TRANSISTORES



TDA 8139
 TDA6111Q
 TEA5101B



TDA 8177



TDA7269



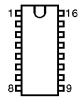
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 M24C32BNI
 MC7805CT
 MC7812CT
 MC33076/P1
 ST24C04-B1
 TDA4605
 X24164



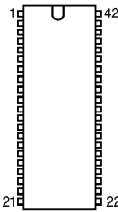
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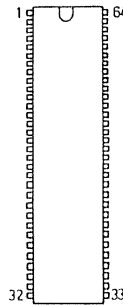
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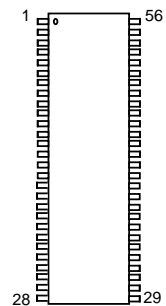
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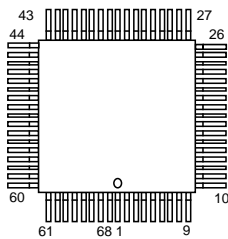
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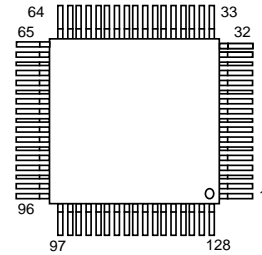
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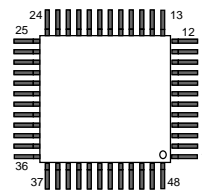
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 STV2162



MS3400C-PS
 MSP3410D-PS
 ST90R92



IC-QP128



MC141627



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



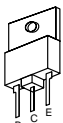
BC368
 BC639
 BF421
 BF 422
 BF423



BC327
 BC 337
 BC547B
 BC557B
 BC 548B
 BC 558B



2SA1837
 2SC4793
 2SC3675
 BD 241
 TIP122



BUL810TH
 BUV48CFITH16
 BW93CFI
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 ON4977



7805
 7812
 L7912CV



BT806 -600C



STP6 NA60F1
 STP22NE03L
 2SK1460

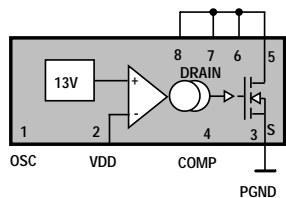


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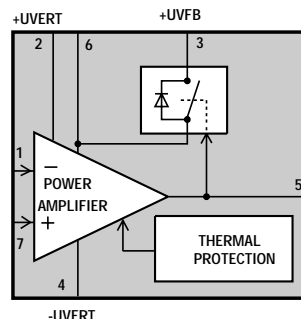
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 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIEDER
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

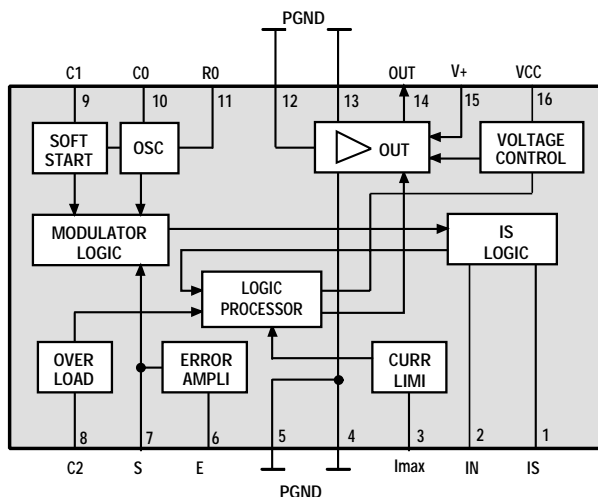
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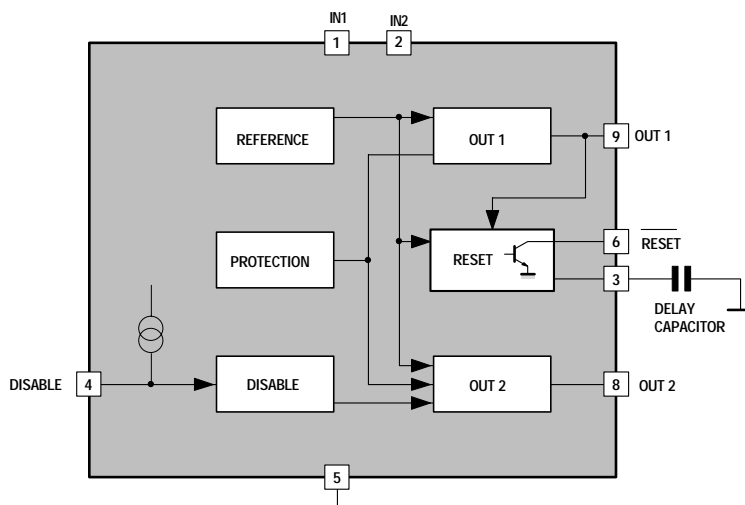
IF001 - TDA8177F



IP050 - TEA2262



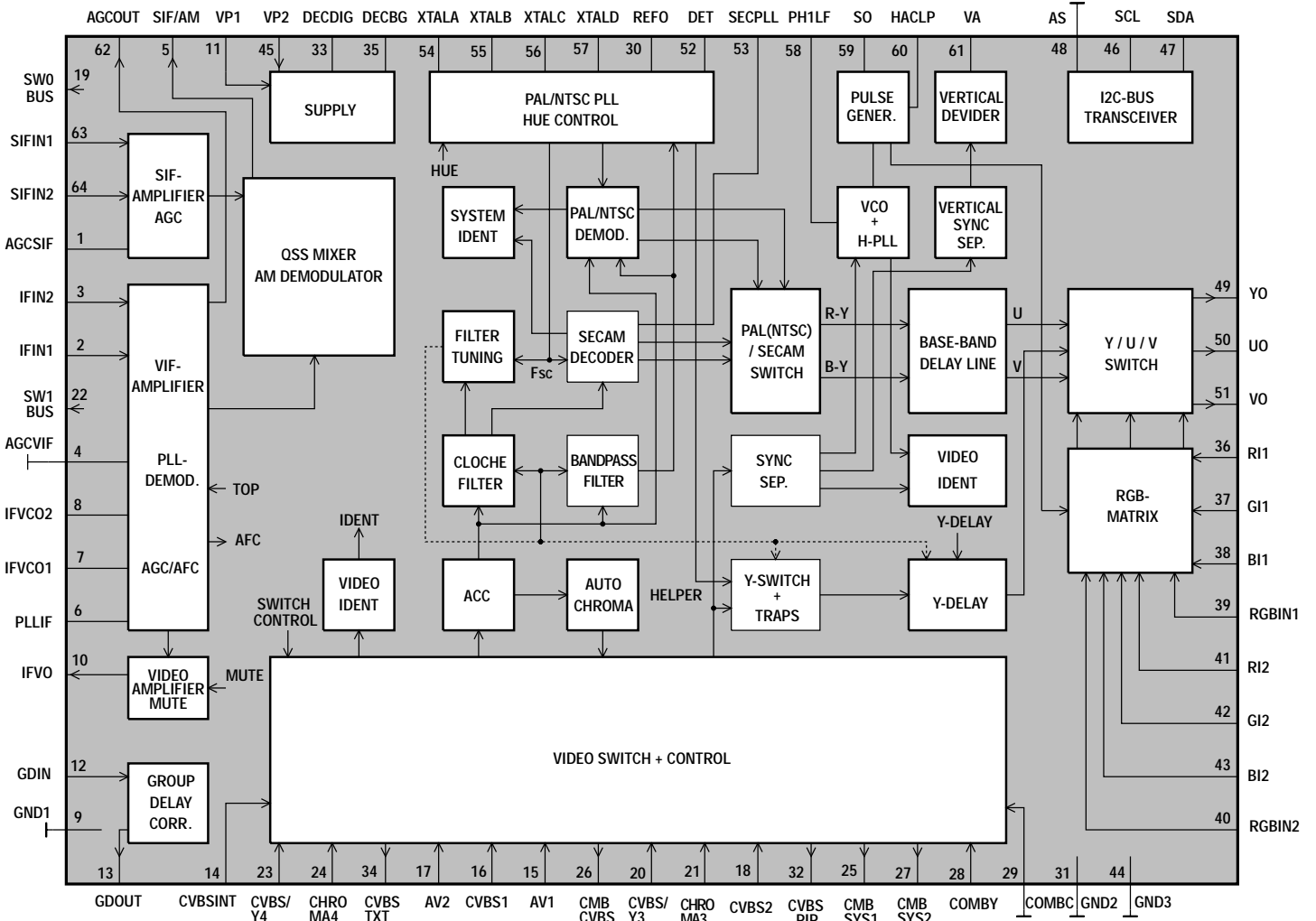
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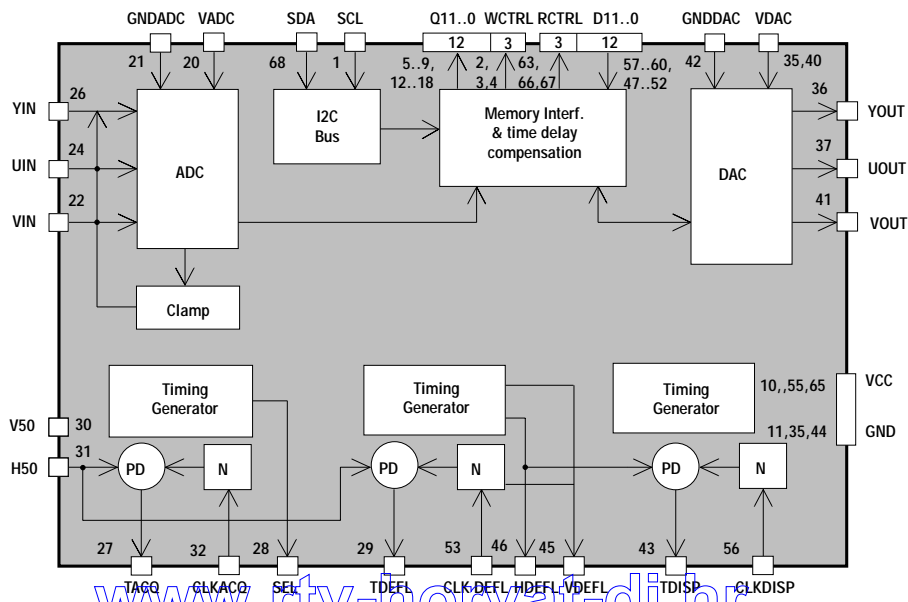
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

IC001 - TDA9321H



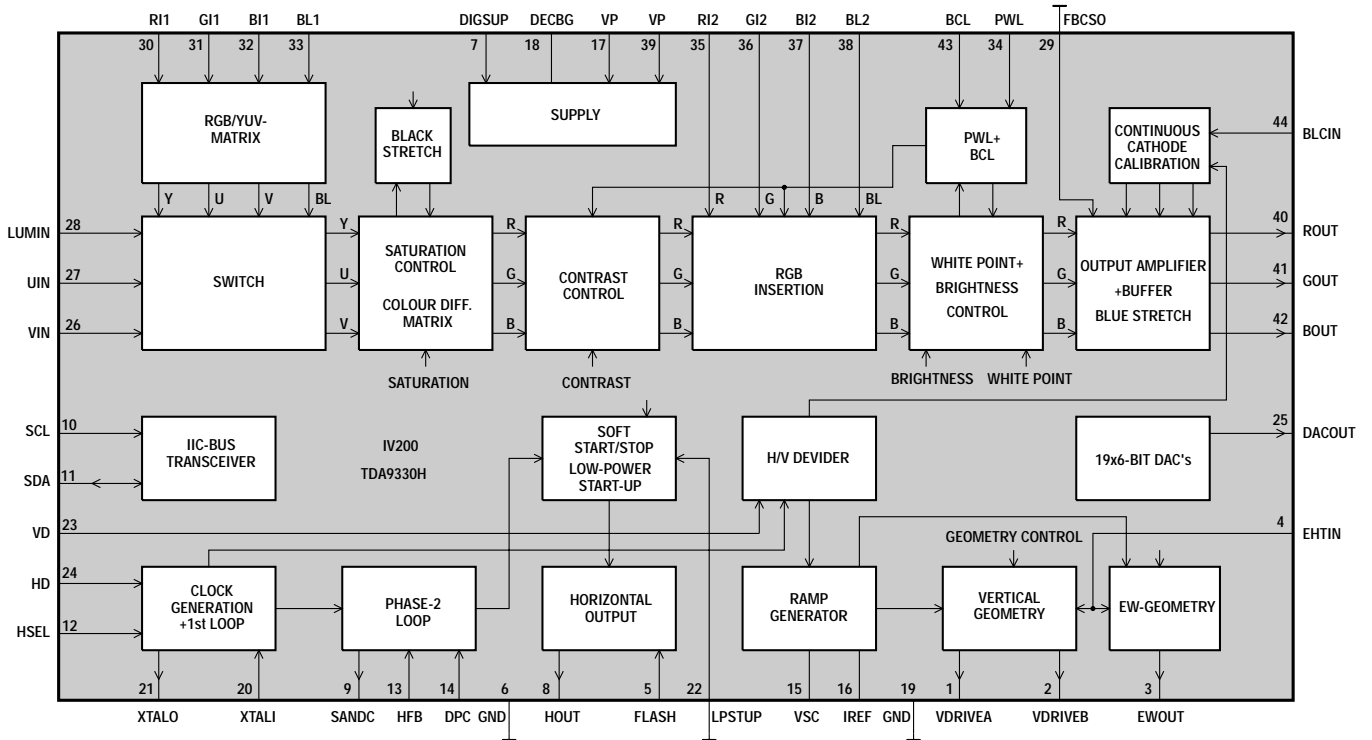
IU308 - DMU0



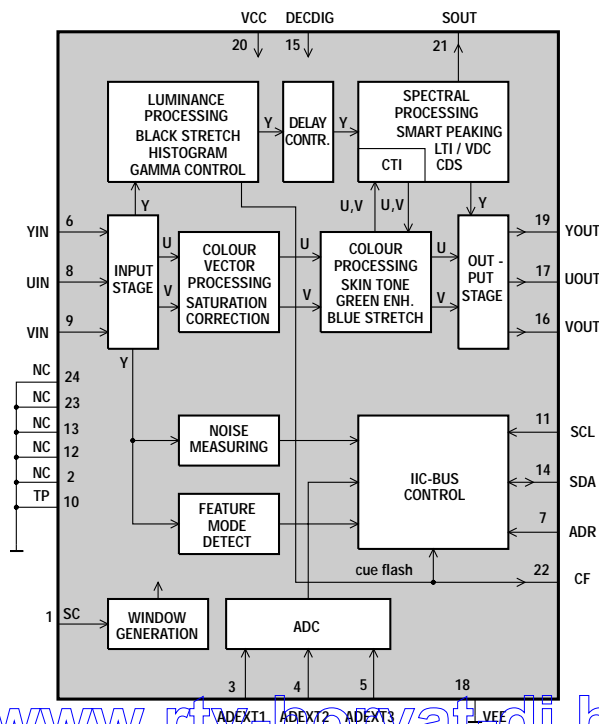
**INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

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

IV200 - TDA9330H



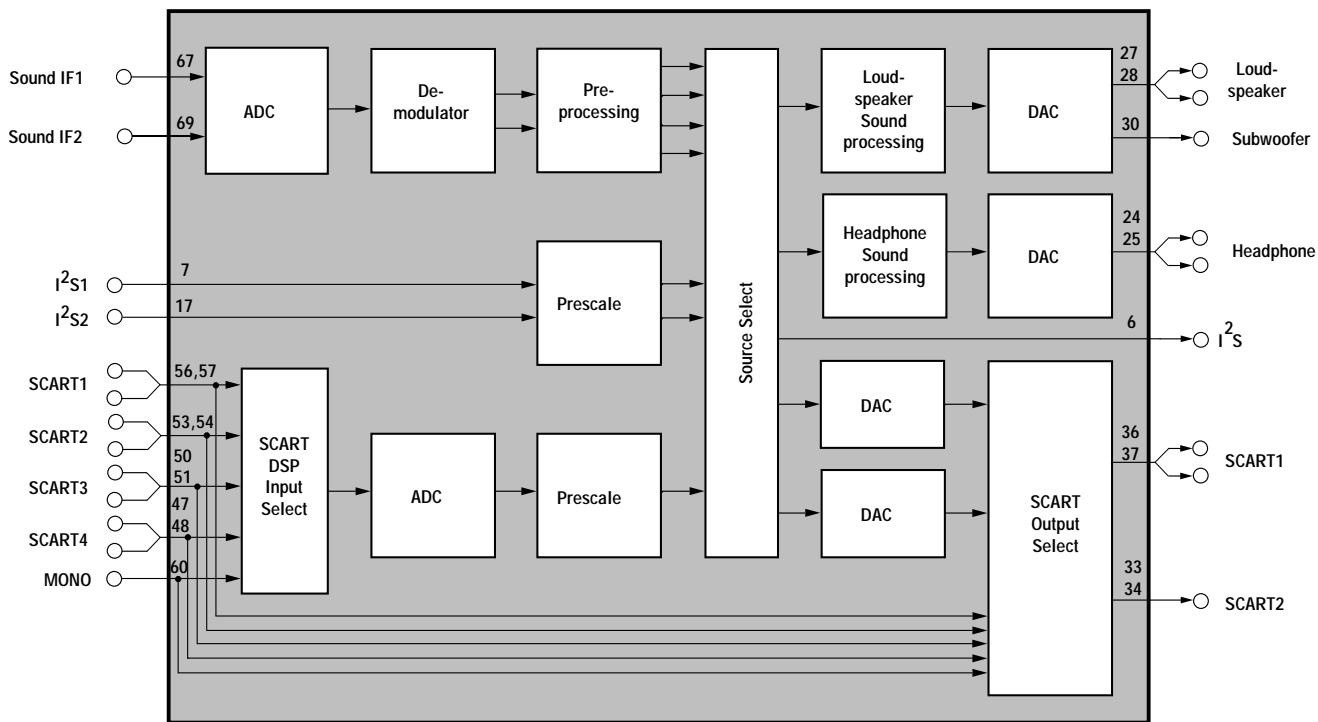
IV100 - TDA9178



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

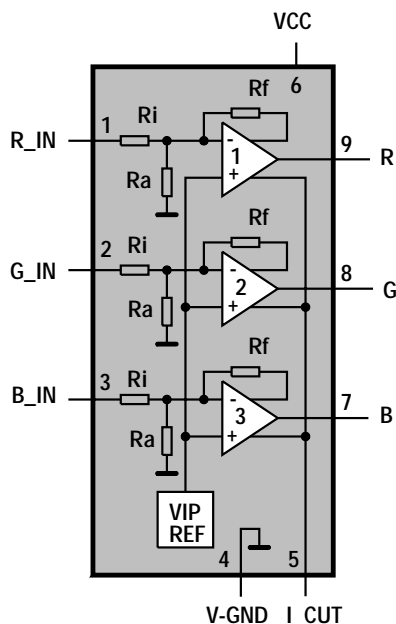
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE -
 PIASTRA PICCOLI SEGNAli - PLACA PEQUEÑA SEÑAL

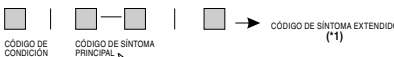
IA001 - MSP 34X0G



VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG -
 ELABORAZIONE VIDEO - TRATAMENTO VIDEO

IB001 - TDA6108JF





SISTEMA DE LOS CÓDIGOS DE REPARACIÓN EACEM-IRIS

TABLA DE LOS CÓDIGOS DE SÍNTOMA



CÓDIGO DE CONDICIÓN	CÓDIGO DE SÍNTOMA PRINCIPAL	CÓDIGO DE SÍNTOMA EXTENDIDO (*)	1	2	3	4
1	1		INACTIVO	NIVEL	CALIDAD	RUIDO
2	110		PROBLEMA DE ALIMENTACIÓN O NO FUNCIONA	PROBLEMA DE CARGA	PROBLEMA DE LA INDICACIÓN	RUIDO ANORMAL
3	111		NO HAY ALIMENTACIÓN	NO HAY CARGA DE BATERIA	FALLO EN EL INDICADOR	RUIDO DE DESCARGA DEL TUBO CATÓDICO
4	112		NO HAY ALIMENTACIÓN CON ADAPTADOR DE C.A.	CARGA INCOMPLETA DE BATERIA	FALLO EN LA OPERACIÓN DE LA LÍNEA	RUIDO DE DESCARGA DEL BLOQUE DE ALTA TENSION
5	113		NO HAY ALIMENTACIÓN CON BATERIAS SECAS	TIEMPO DE CARGA MUY LARGO	LAMPADILLO	TENSION
6	114		NO HAY ALIMENTACIÓN CON BATERIAS RECARGABLES	OTRO PROBLEMA DE CARGA	FALLO EN LA OPERACIÓN DEL MEDIDOR DE NIVEL	MUEBRES RUIDOSOBANDEJA CRUJIENTE
7	115		NO HAY ALIMENTACIÓN CON BATERIAS SECAS		FALLO EN LA OPERACIÓN DE LA INDICACIÓN	TRANSFORMADOR RUIDOSO/ZUMBIDO
8	116		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		FALLO EN LA INDICACIÓN DE LA SINTONÍA	CONECTOR TERMINAL/ZOCALOCORRUPTO DAÑADO
9	117		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		ELECTRÓNICA	VIBRACION
10	118		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		FALLO EN LA INDICACIÓN DE LA SINTONÍA	CHASQUIDO
11	119		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		FALLO EN LA INDICACIÓN DEL CÓDIGO DE TIEMPO	RUIDO DE RELOJ
12	120		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		FALLO EN LA INDICACIÓN DE ALARM/ERROR	RUIDO DE RELOJ
13	121		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		DISPLAY BORROSOS/OPACOS/ OSCURO	DAÑO DEL TUBO CATÓDICO/SOR/INDICADOR LCD
14	122		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		MENSAJE EN EL DISPLAY INCORRECTO	PIEZAS O MATERIA PERDIDAS
15	123		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		NO FUNCIONA LA LINEA INTERNA	MARCA BORRADA
16	124		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		NO INDICACIÓN DE "SEEPS"	CIRCUITERIA QUEMADA/SALE HUMO
17	125		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		NO FUNCIONA LA LUZ DE PRESELECCIÓN	DAÑO EN SUPERFICIE EXTERNA (BURBUJEANTE/PELADO/CORROIDA/ARAÑADO)
18	126		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE		OTRO PROBLEMA DE LA INDICACIÓN	16H HUELE
19	127		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H ALTAVOZ DETERIORADO
20	128		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H APARATO MUY CALIENTE/COMPONENTE FUNDIDO
21	129		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H SISTEMA EXTRA CENTRO DEL APARATO
22	130		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H MARCAS DE ARDER
23	131		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H SUPERFICIE INTERIOR DAÑADA (BURBUJEANTE/PELADO/CORROIDA/ARAÑADA)
24	132		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H CABLE DE RED DETERIORADO
25	133		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H ACCESORIO DETERIORADO
26	134		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H DESCOLORACION
27	135		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			16H OTRO PROBLEMA DE DAÑO FÍSICO
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120	228		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
121	229		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
122	230		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
123	231		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
124	232		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
125	233		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
126	234		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
127	235		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
128	236		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
129	237		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
130	238		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
131	239		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
132	240		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
133	241		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
134	242		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
135	243		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
136	244		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
137	245		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
138	246		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
139	247		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
140	248		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
141	249		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
142	250		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
143	251		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
144	252		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
145	253		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
146	254		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
147	255		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
148	256		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
149	257		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
150	258		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
151	259		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
152	260		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
153	261		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
154	262		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
155	263		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
156	264		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
157	265		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
158	266		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
159	267		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
160	268		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
161	269		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
162	270		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
163	271		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
164	272		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
165	273		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
166	274		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
167	275		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
168	276		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			240
169	277		NO HAY ALIMENTACIÓN CON BATERIAS SÓLIDE			

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

United Kingdom

ok

3 - Choice of reference

4 - Validation

- set-up
- warnings
- glossary
- a
- quit

Choice of another language and a new password

Security information

Supplementary information

Exit from application



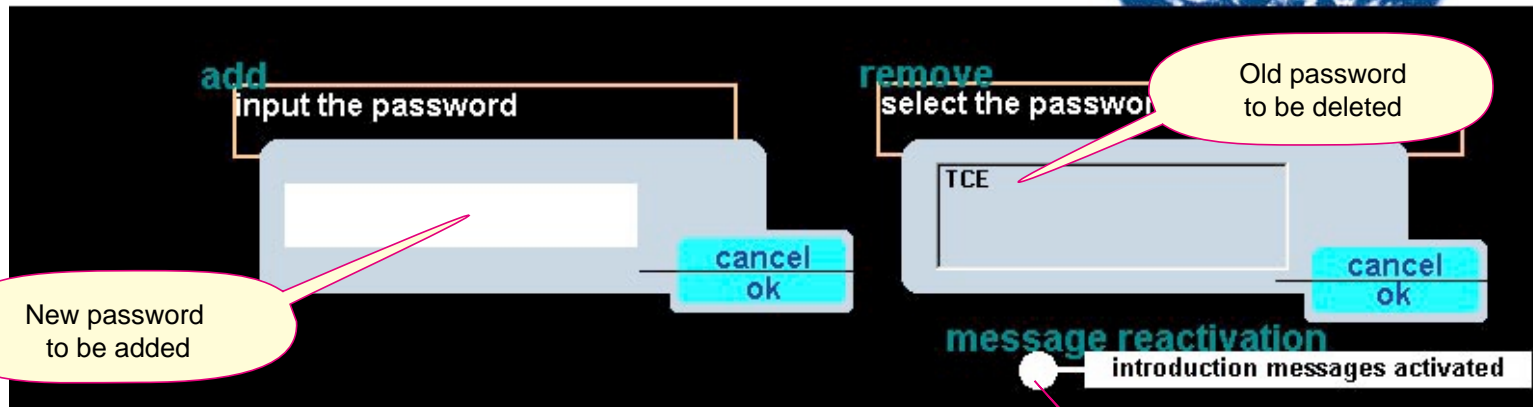
Return to the Previous page

Store modifications to retrieve them for use the next time

country



Language selection



Old password to be deleted

New password to be added

Activation of the presentation message visible during the first use

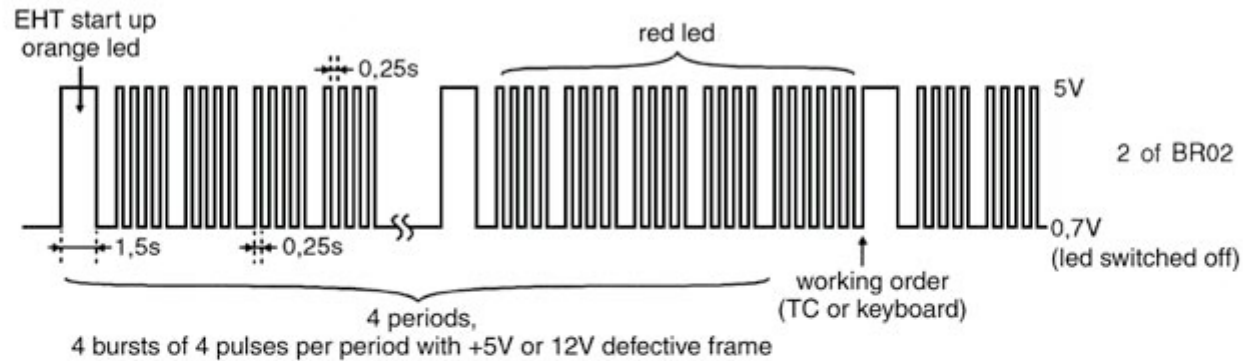
The image shows a Thomson troubleshooting interface with several callouts:

- Repair advise by symptom or front LED status**: Points to the **search** button.
- Repair method**: Points to the **methods** button.
- Performances Improvement**: Points to the **particular cases** button.
- Select Repair method**: Points to the list of repair methods in the **select** panel.
- Open Spare Parts List**: Points to the **SPL** button in the bottom navigation bar.
- Open Method file**: Points to the **Protection device checking method** in the **methods** panel.

The interface includes a top navigation bar with **search**, **methods**, and **particular cases** buttons. Below this is a main content area with two panels: **select** and **methods**. The **select** panel lists: **Checking the protection devices**, **Standby power supply troubleshooting**, **Checking the main PS and time base (LV)**, and **Checking the main PS w/o time base (220 VAC)**. The **methods** panel shows **Protection device checking method**. A bottom navigation bar contains: **72MK89DU**, **SPL**, **set-up**, **warnings**, **glossary**, **a**, and **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
->IRIS<-

-circuit-breaking when switching to set voltage
->IRIS<-

IRIS code
table display

← search

LED

blinking

4 times

72MK89DV

SPL

set-up

warnings

glossary

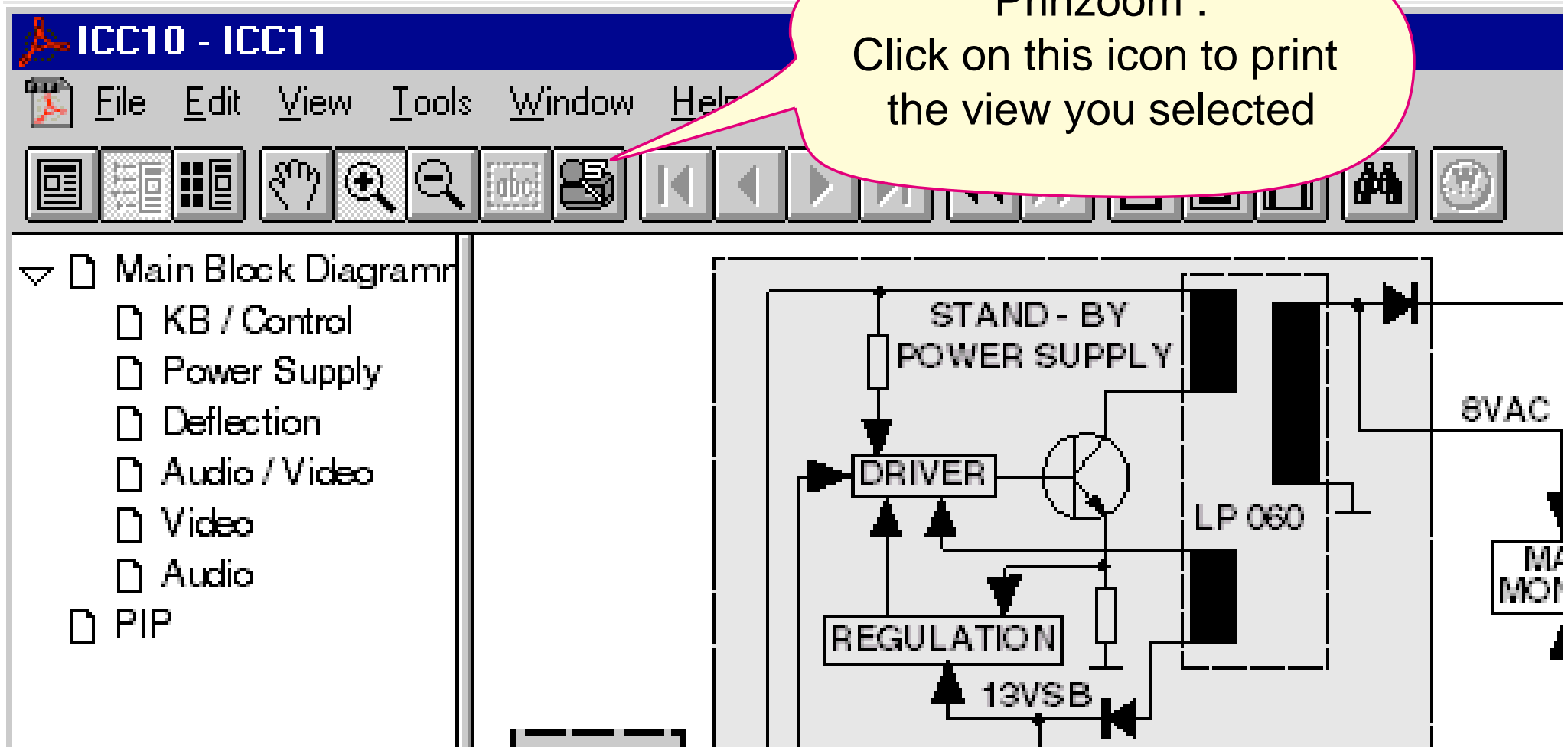
menu

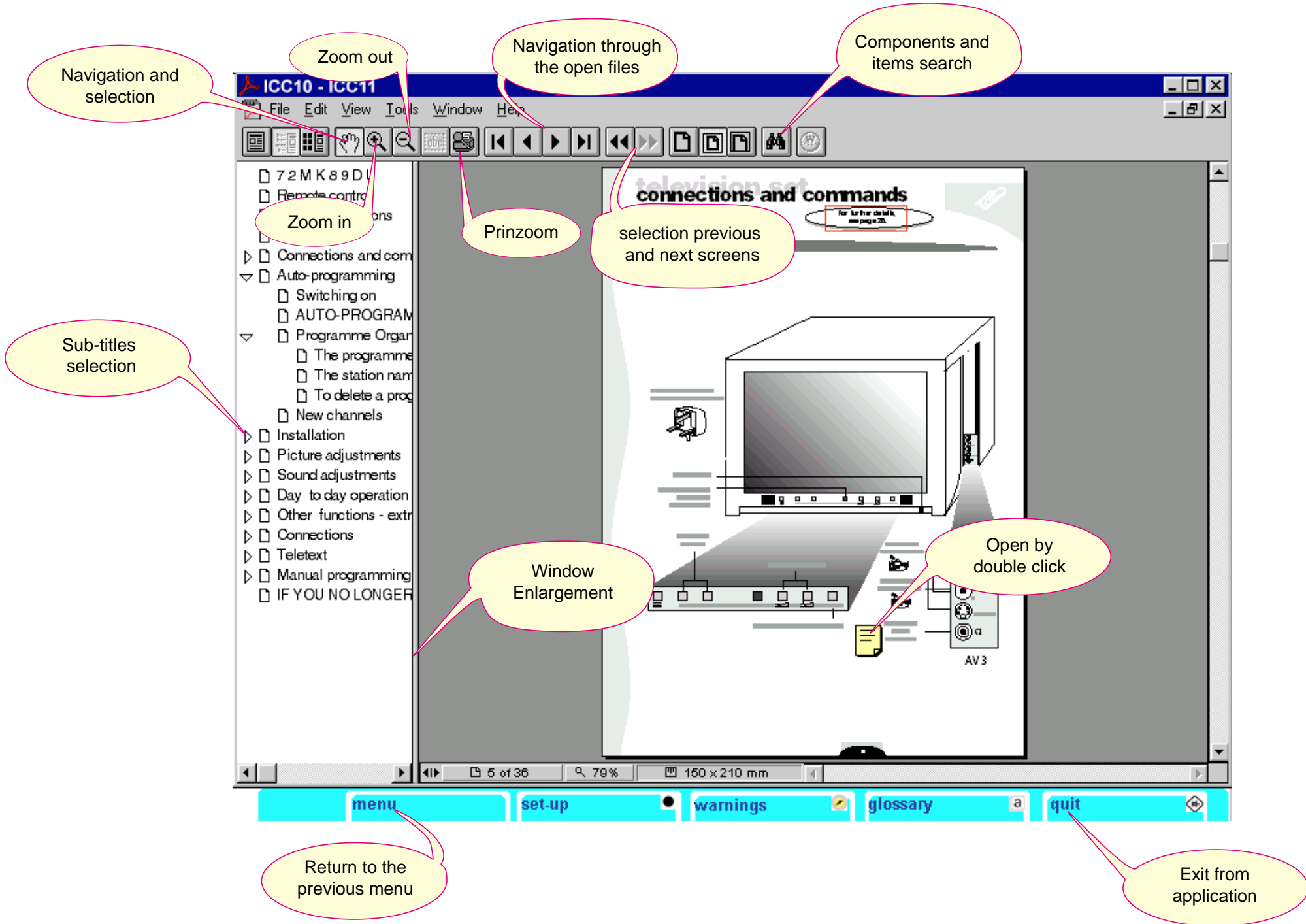
Navigation inside
the trouble shooting

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 navigation bar with buttons for '14MG10U', 'SPL', 'set-up', 'warnings', 'glossary', 'a', 'menu', and a back arrow. A yellow callout bubble points to the 'new note' window with the text '3 - Type in the title of your new note'. Another yellow callout bubble points to the end of the text in the input field with the text '2 - Click here to place the cursor at the end of the line, then press return key'. A third yellow callout bubble points to the 'save' button with the text '4 - Save the new note to disk'. A fourth yellow callout bubble points to the 'quit' button with the text '1 - Create a new note'. A fifth yellow callout bubble points to the 'quit' button with the text 'Exit'.

THOMSON

diagrams

new note

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

3 - Type in the title of your new note

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

14MG10U
complete PCB
connection and
VHF/UHF tuner

Exit

save quit

14MG10U SPL set-up warnings glossary a menu

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

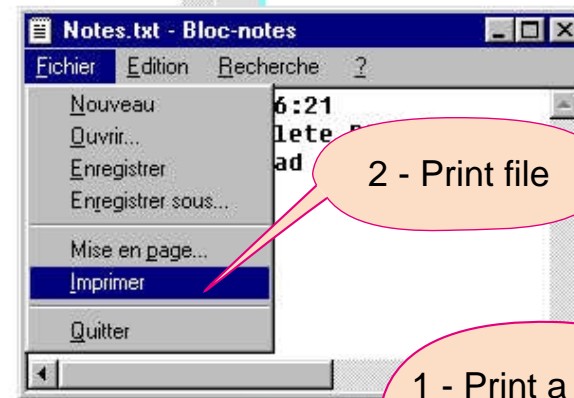
quit

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

1 - Print a copy of the notes

Insert a new note

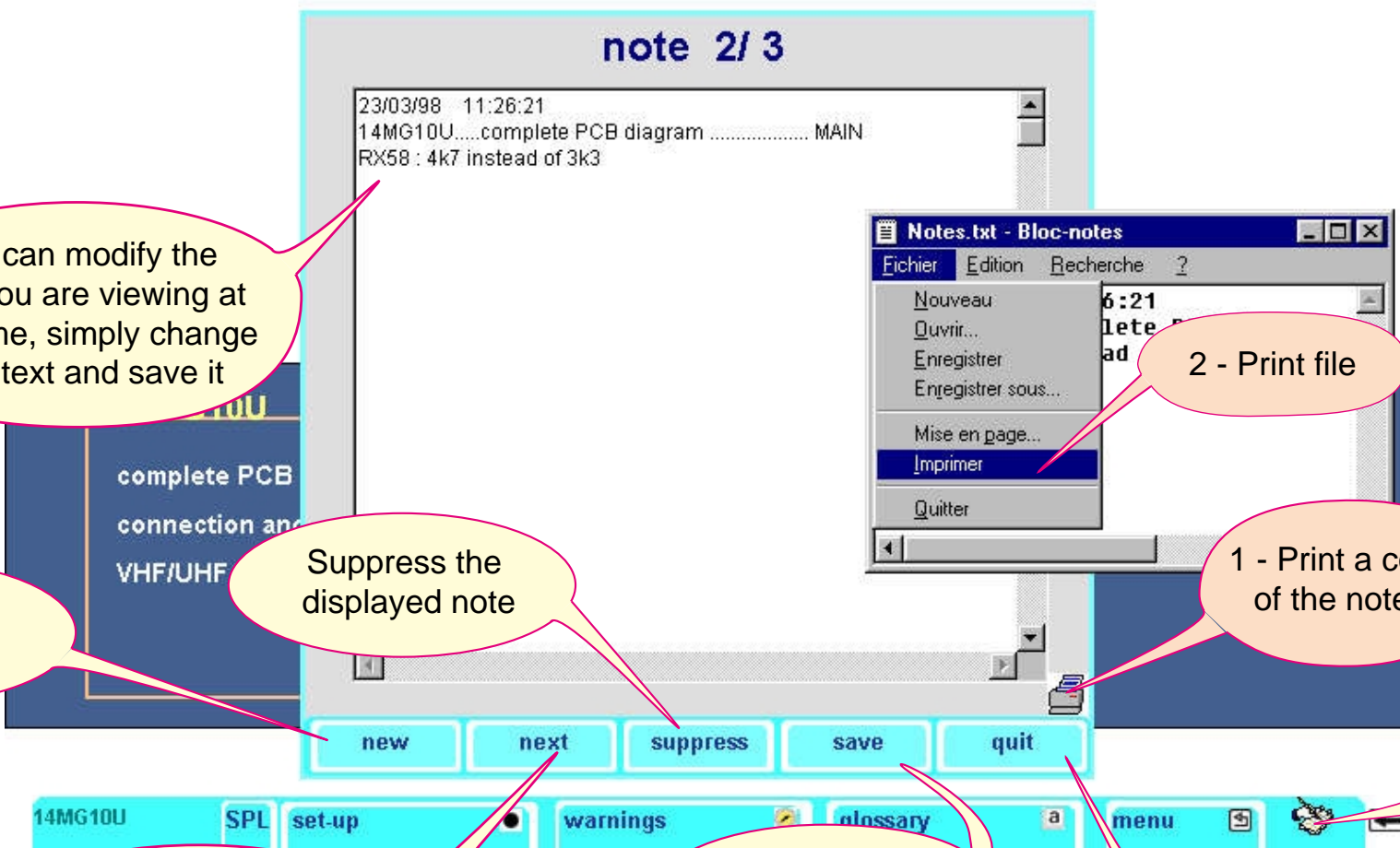
Suppress the displayed note

View the notes

Navigate around the different notes available in the open Acrobat file

Save the modifications

Exit the notes programme



TECHNICAL INFORMATION

Finished products / Chassis concerned : ICC20

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

Symptom / Problem observed :

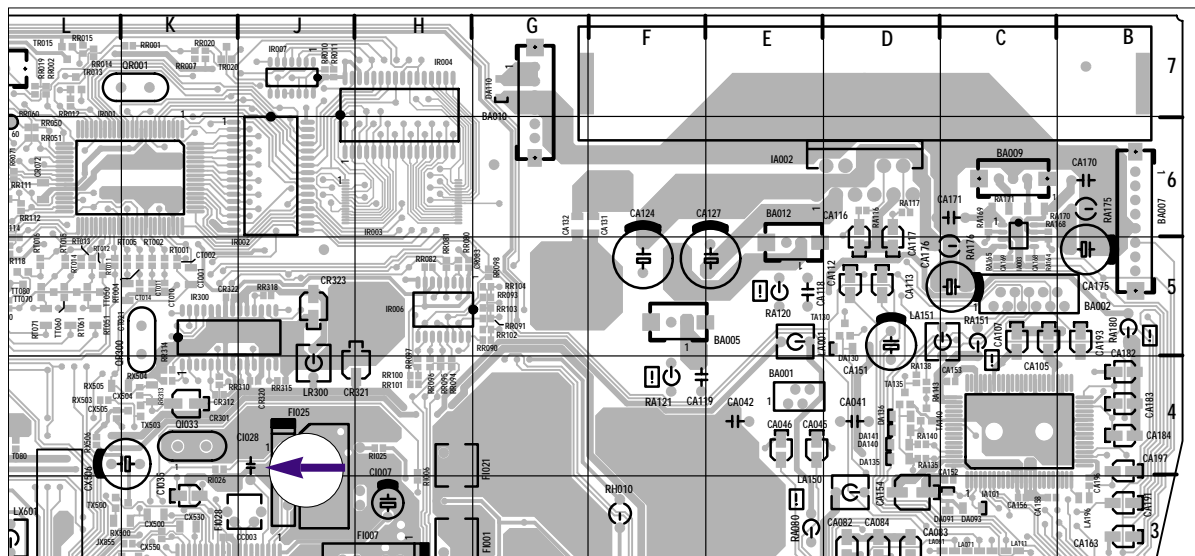
Light horizontal band at the top of the picture, mainly visible on programme 5. (Ia 5 & Arte)

Cause :

AGC too time constant too fast.

Solution :

Replace metalised polyester capacitor in position CI028 (1 μ F) by 2.2 μ 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

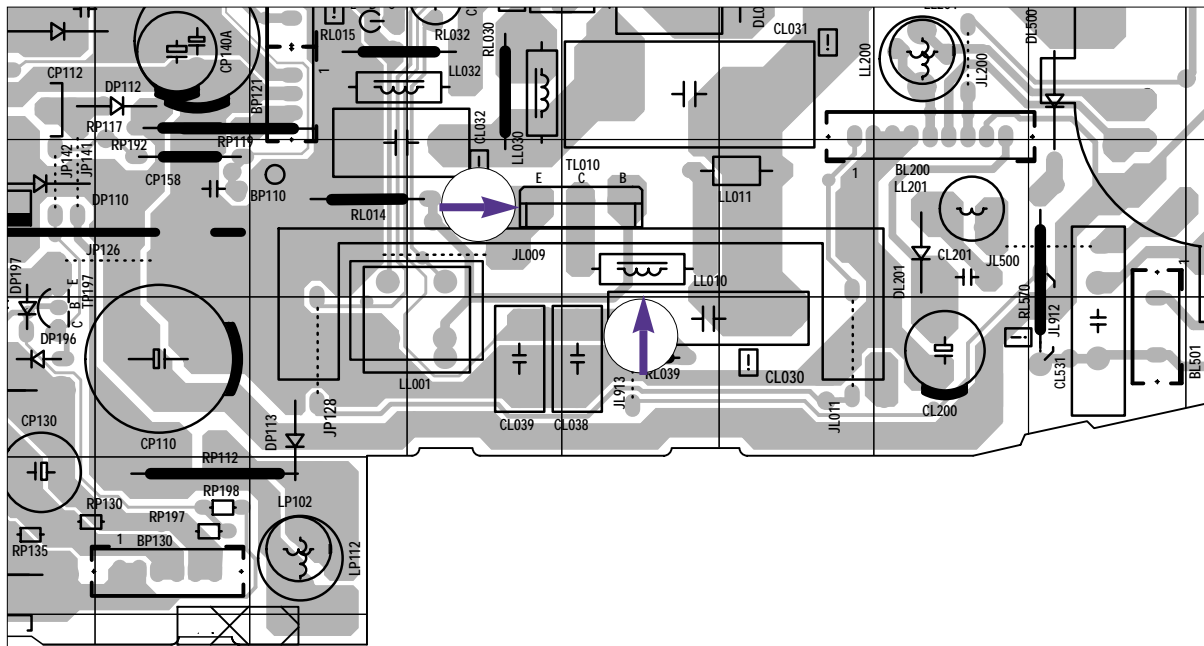
Finished products / Chassis concerned : ICC20

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)

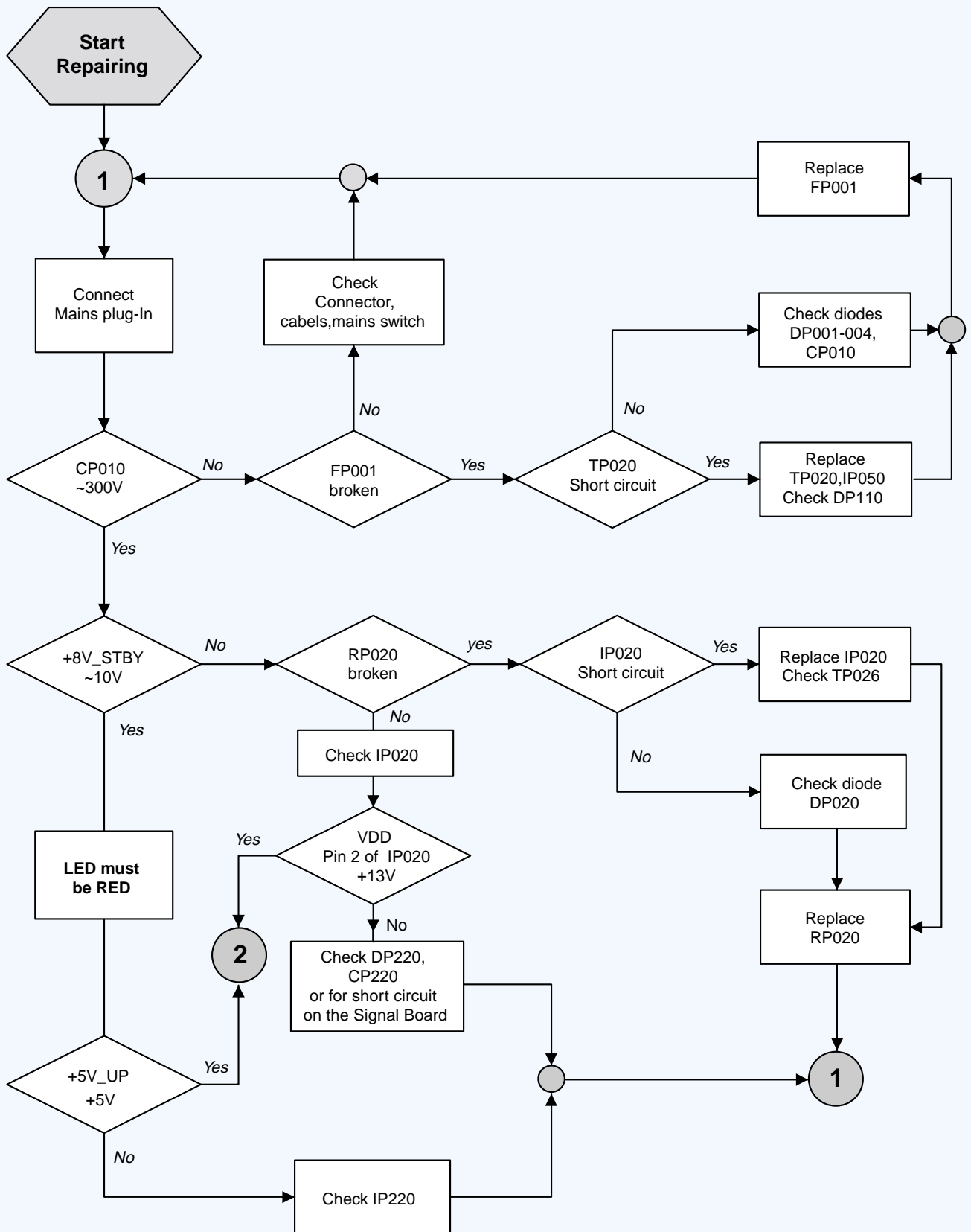


IRIS CODE : The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

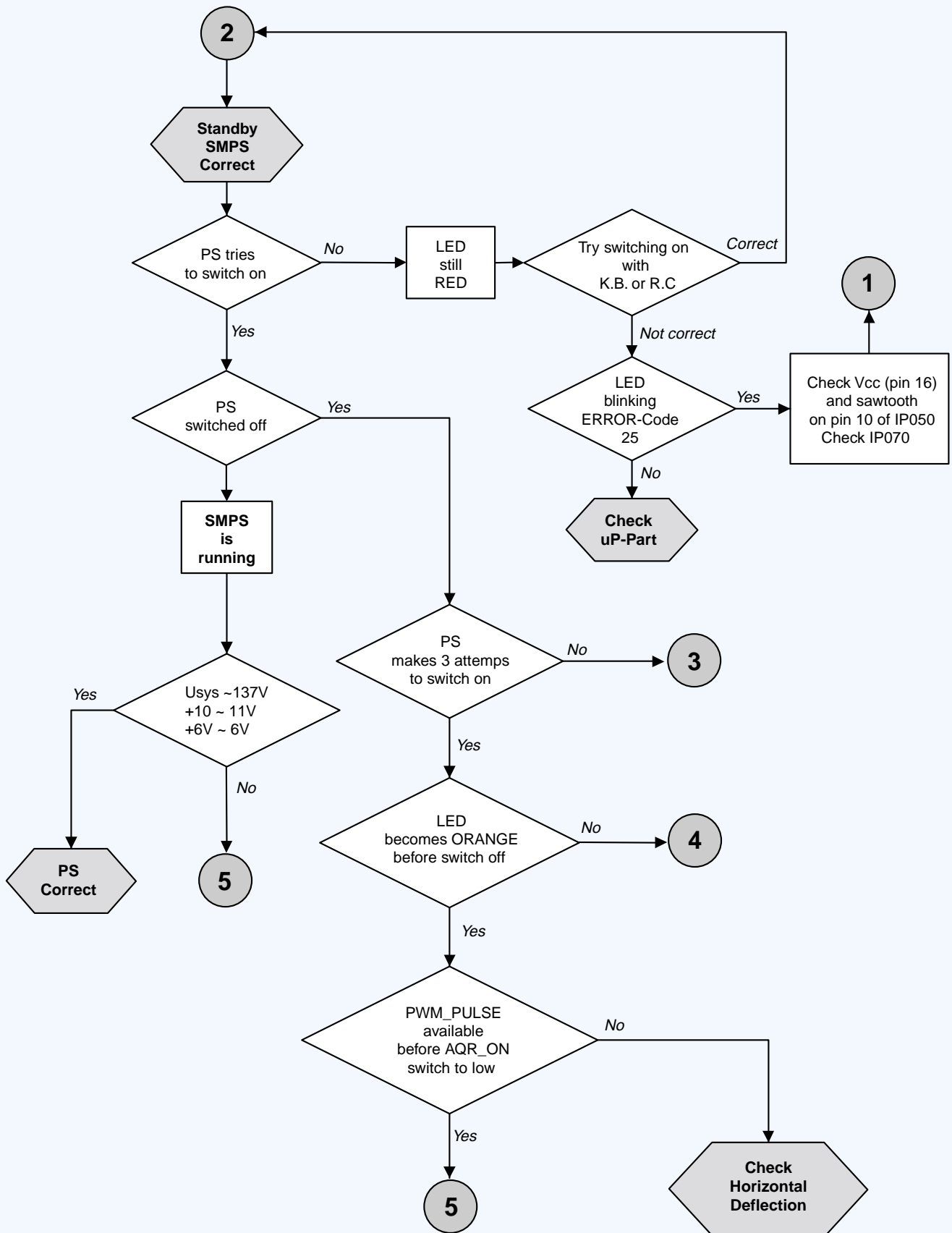
Condition/ Symptom/	Part Code Number	Qty	Position	Section	Fault Code	Repair Code
1 3 2 X	1 0 2 7 2 8 0 0	0 1	D L 0 1 2	D F L	Z	K

You do not need to write anything in the white boxes

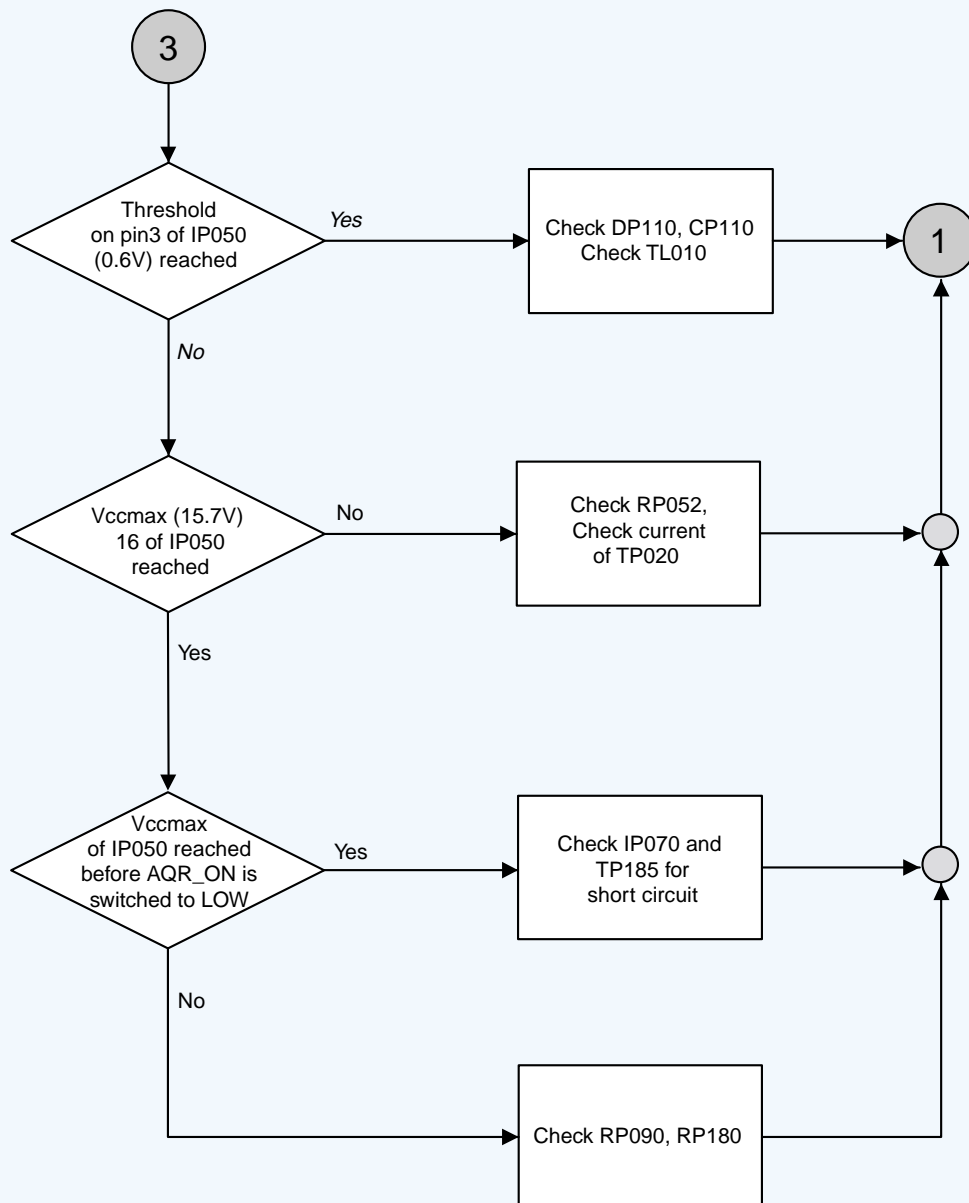
MAIN POWER SUPPLY CHECK



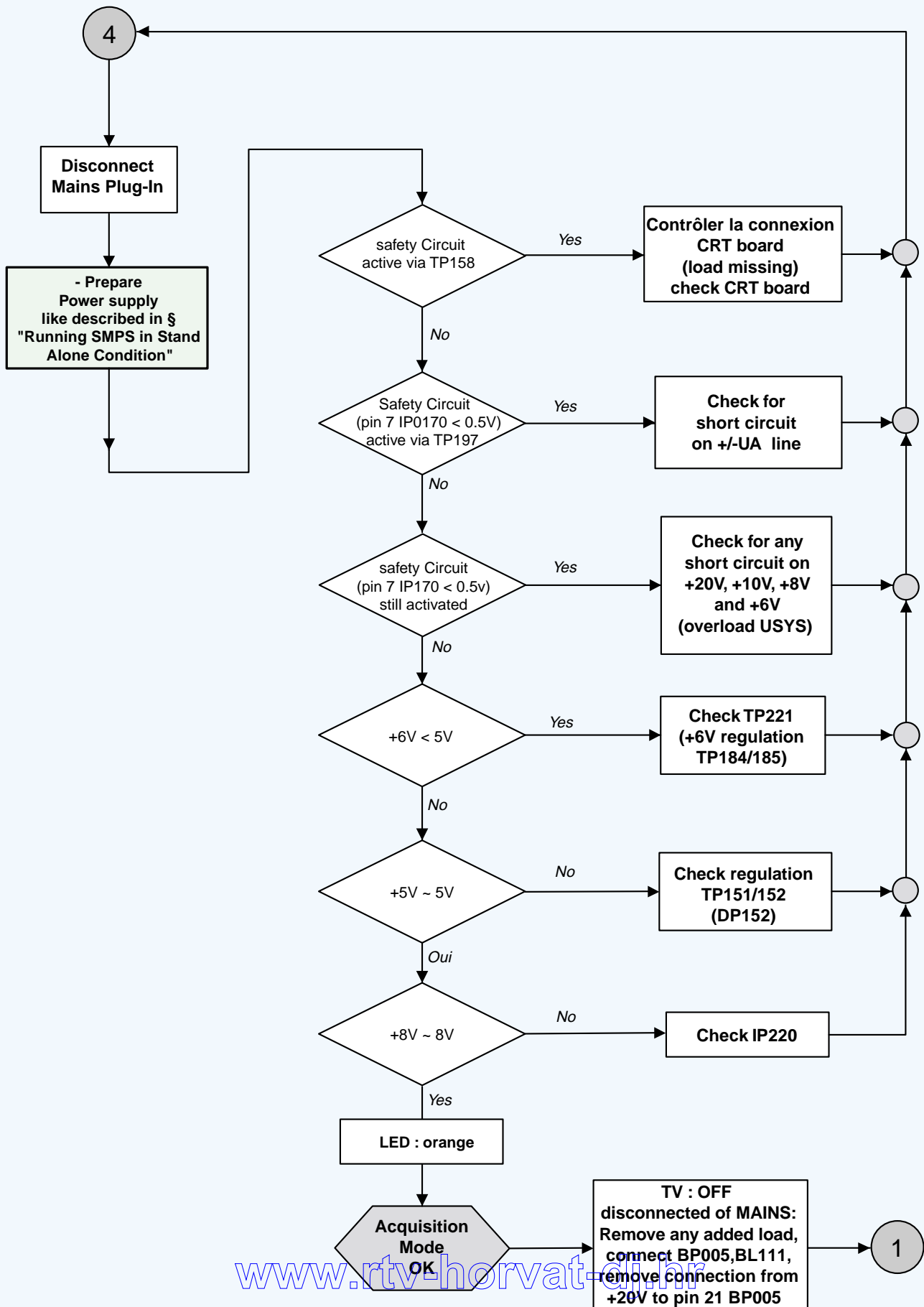
MAIN POWER SUPPLY CHECK



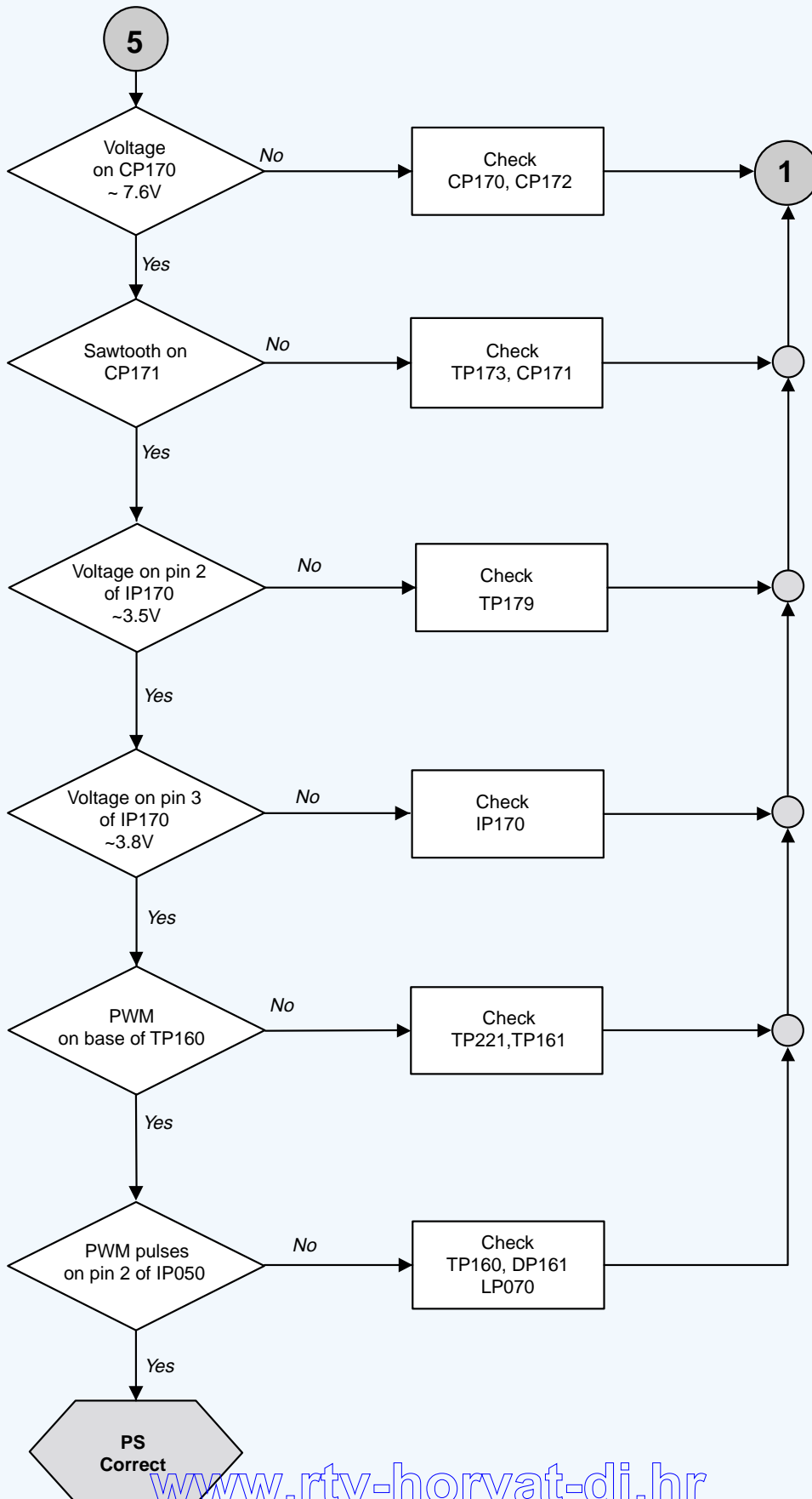
MAIN POWER SUPPLY CHECK



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.

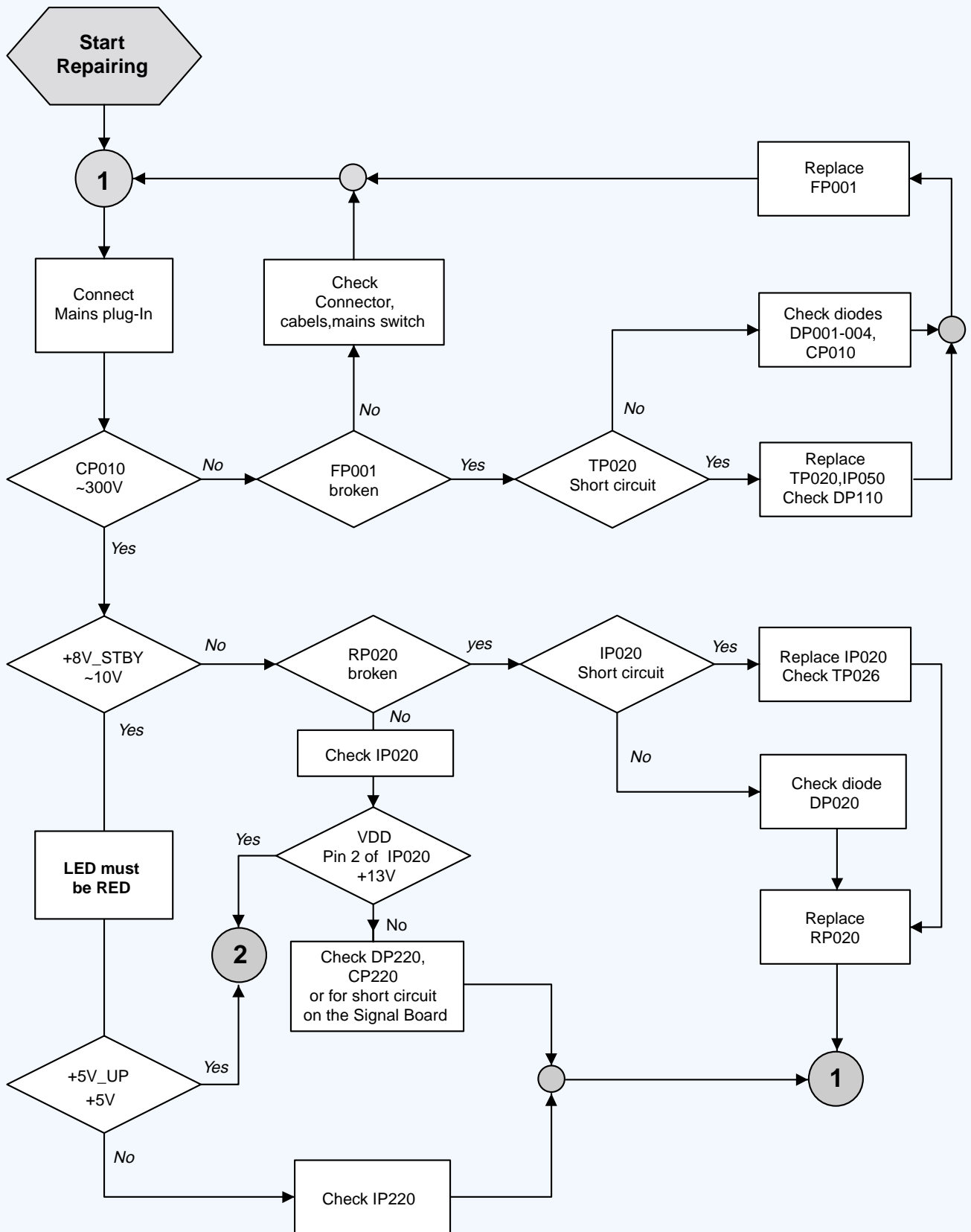
- Measure the following voltages :

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

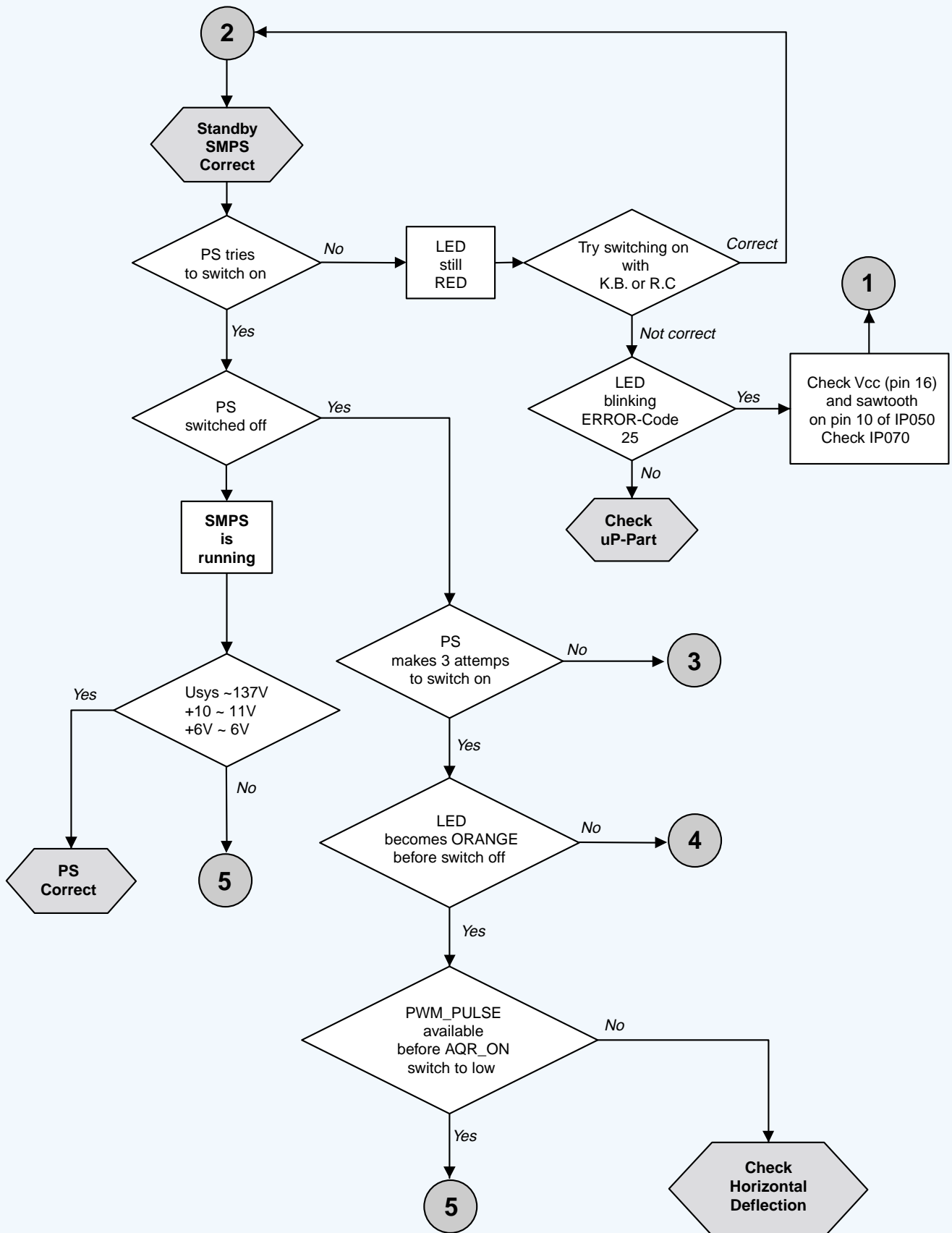
(*) Components location reference

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.

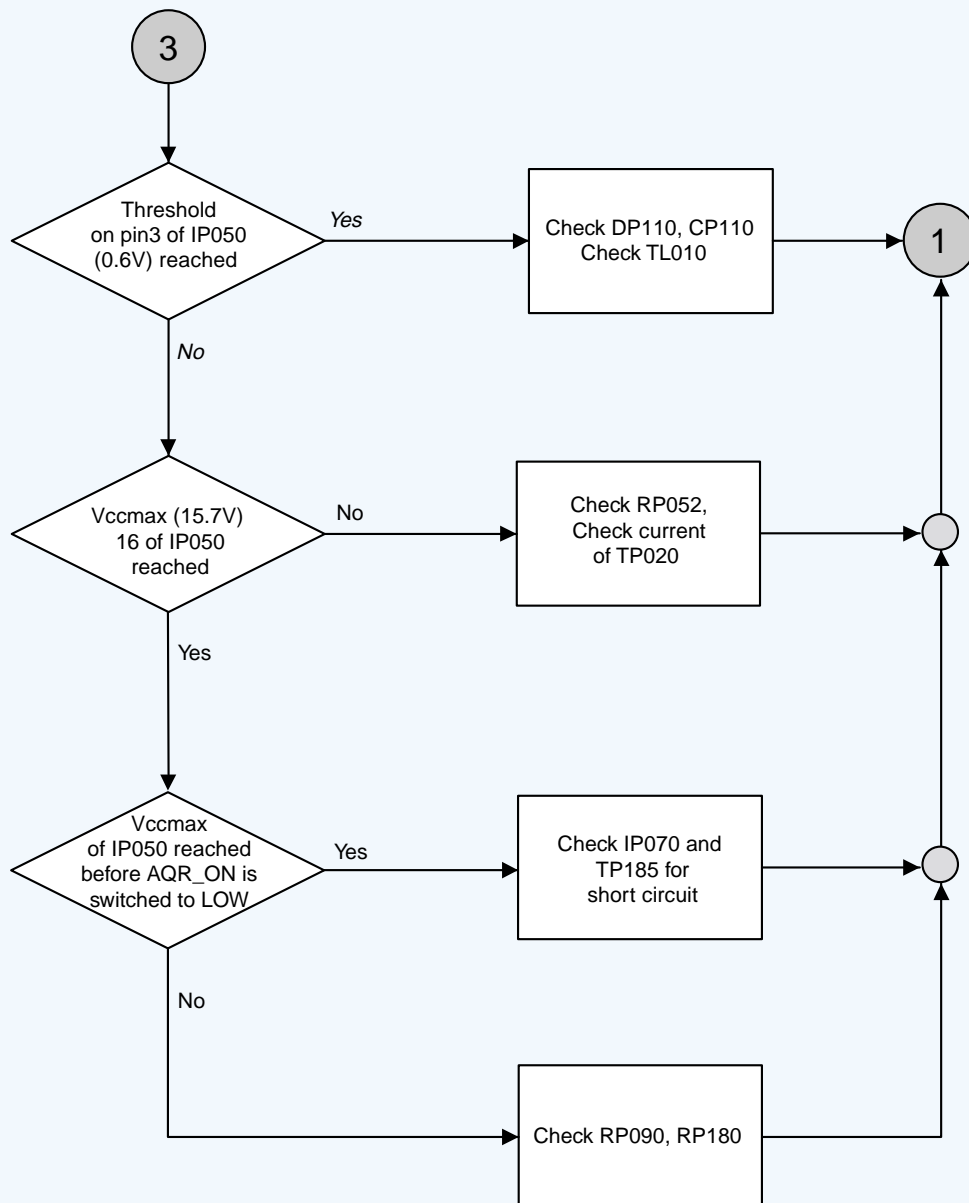
MAIN POWER SUPPLY CHECK



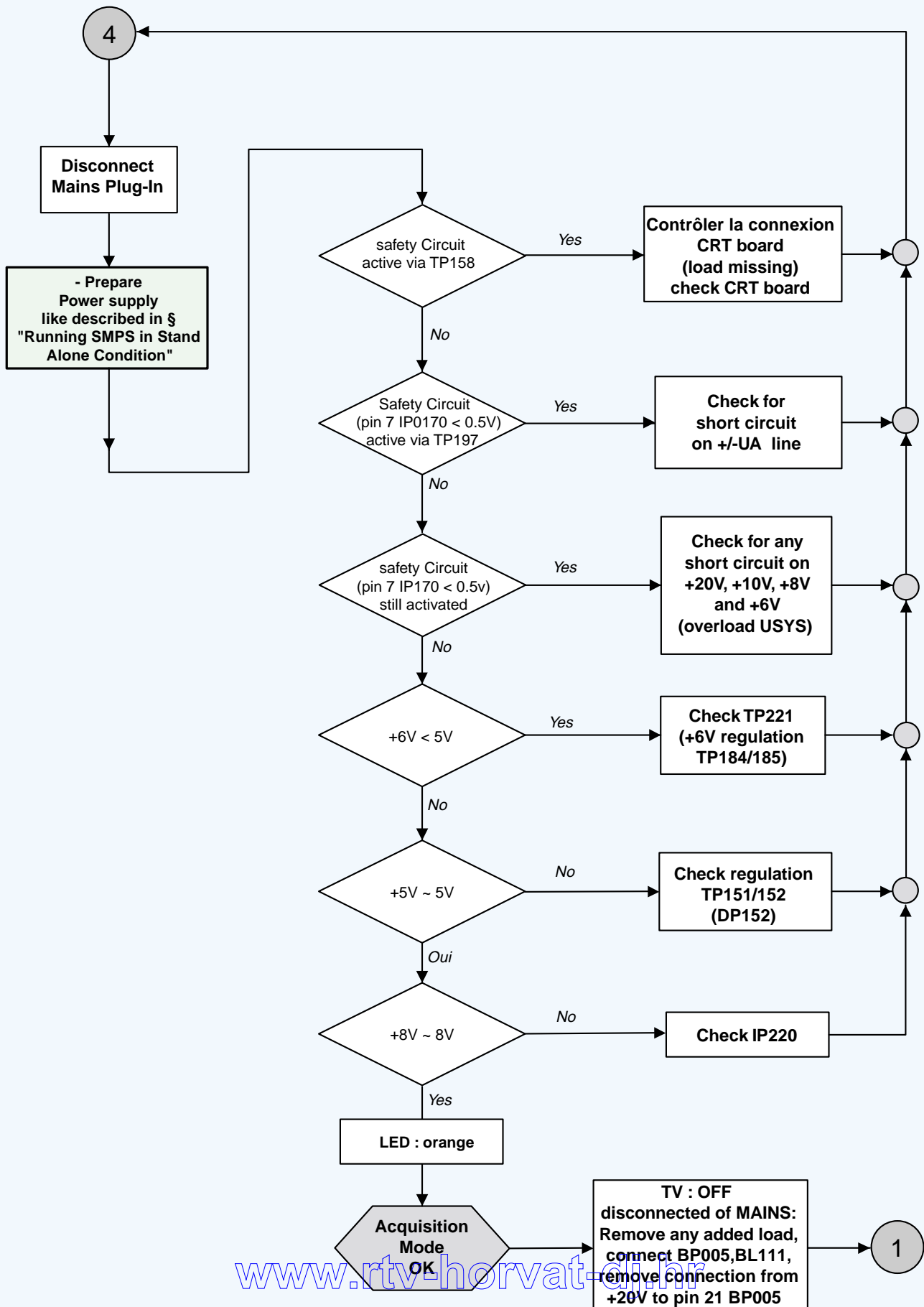
MAIN POWER SUPPLY CHECK



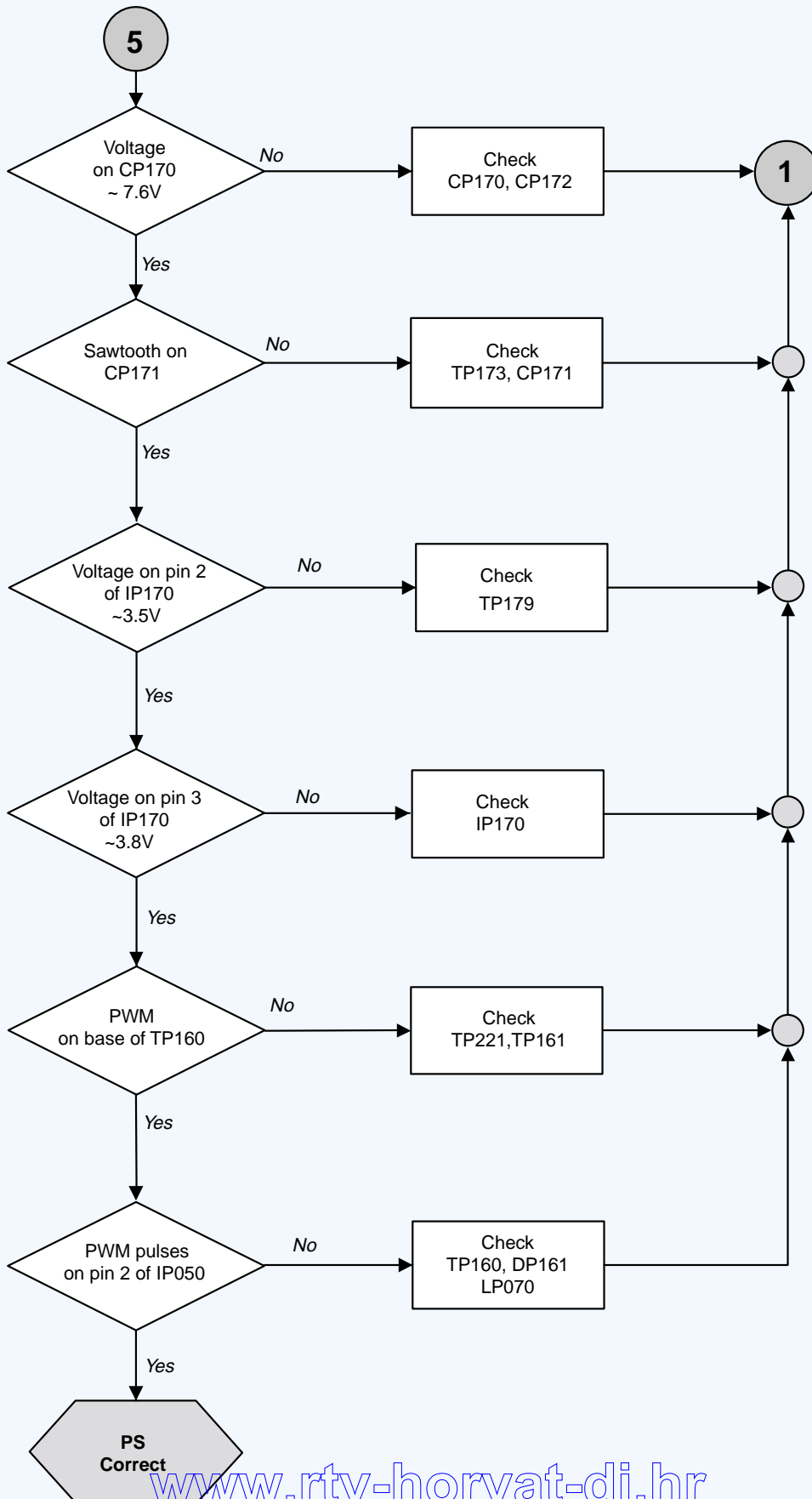
MAIN POWER SUPPLY CHECK



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.

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 - 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.

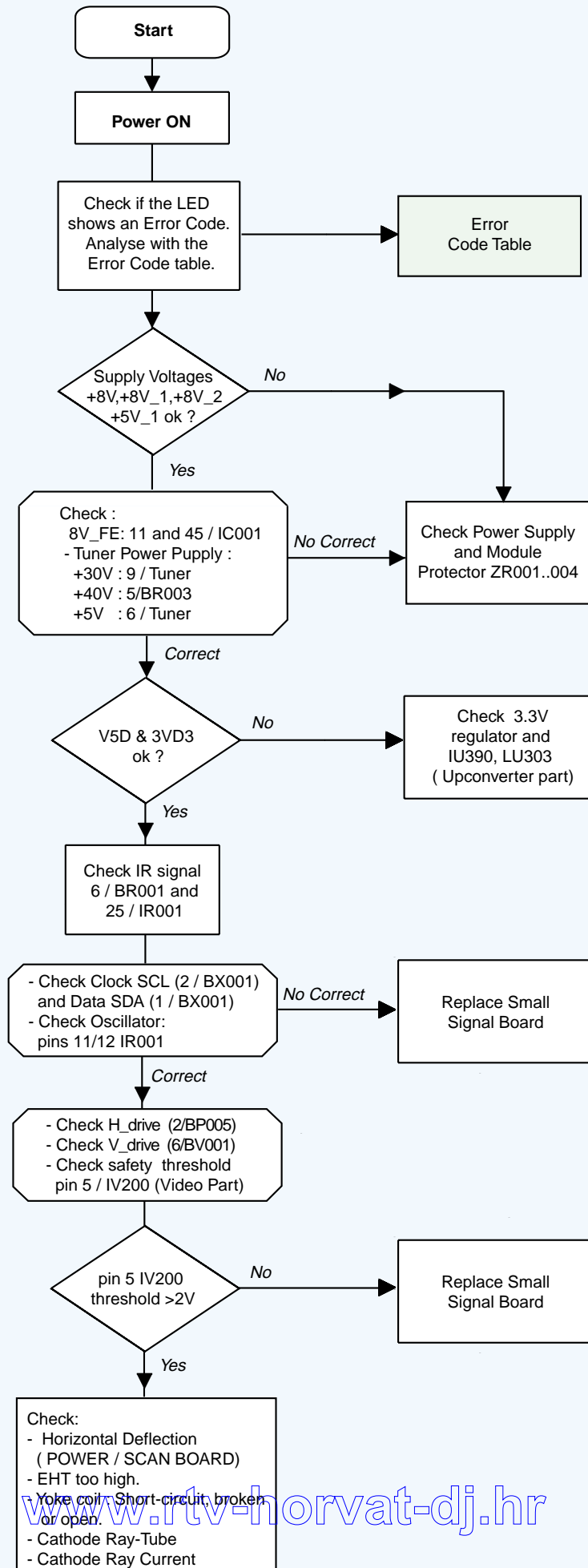
- Measure the following voltages :

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+8V (C / DP194) (H/1)*	8.15V +/-0.25V
+6V (C / DP150) (F/5)*	6.1V +/-0.2V
+5V (A / DP152) (H/3)*	5.1V +/-0.15V
+UA (C / DP130) (F/9)*	22V +/2V
-UA (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



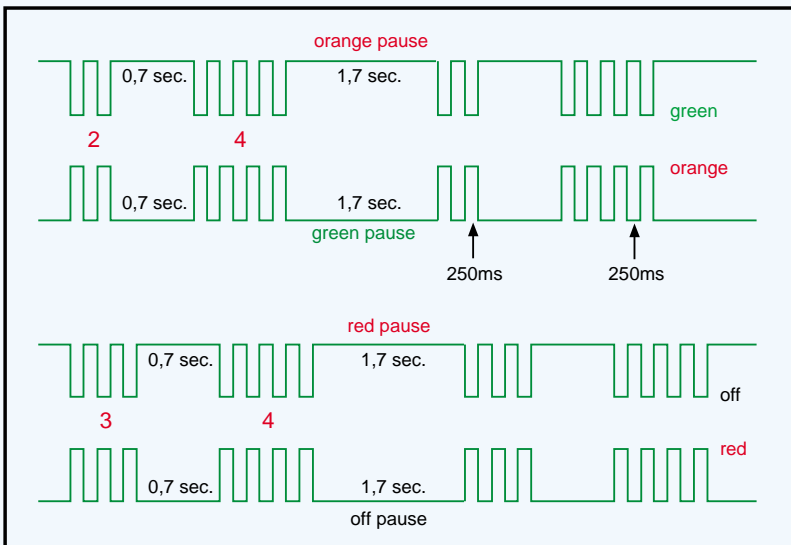
GENERAL INFORMATION - LED BEHAVIOUR

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)

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 signal 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***".

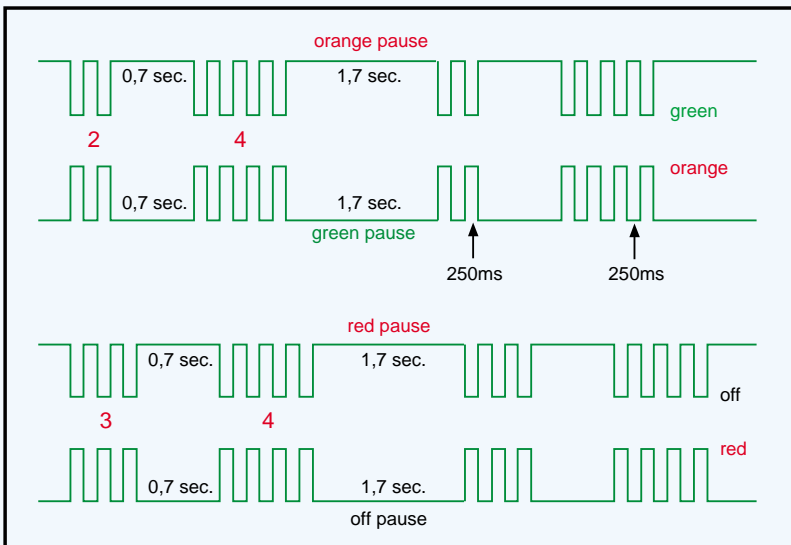
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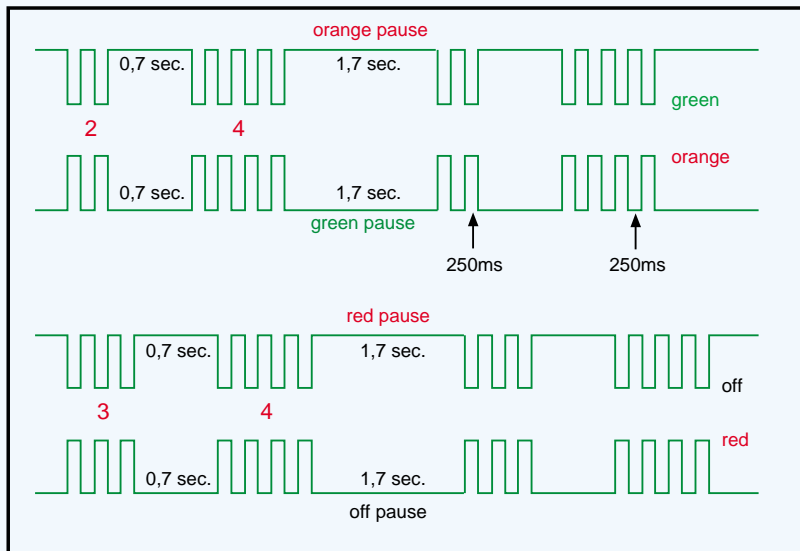
CODES	DEFAULT
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15	TDA9321 doesn't answer anymore
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17	SAA4956 doesn't answer anymore
18	TDA9178 doesn't answer anymore
19	Tuner doesn't answer anymore
20	I2C Bus is locked
21	I2C Bus data line held low
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48	XPR bit problem (only factory information)
49	Problem with bits SXA...D (factory information)

ALLGEMEINE INFORMATIONEN - LED VERHALTEN

LED BLINKZEICHEN

Übermittlung von Informationen
Die Fehler-Codes werden von der roten LED angezeigt.

Zählen Sie die Leuchtimpulse: Sie werden in zwei Blinkfolgen, abgetrennt durch eine Pause von 0,7 sek., eingeteilt und verschiedene Male wiederholt. Zwischen jeweils zwei Codes ist eine Pause von 1,7 sek.



CODES	FEHLER
10	Kindersicherung aktiv
11	Weckerfunktion aktiv
12	Audio-MSP antwortet nicht
13	Audio-Dpl antwortet nicht
14	TDA9330H antwortet nicht
15	TDA9321 antwortet nicht
16	DMU0 antwortet nicht
17	SAA4956 antwortet nicht
18	TDA9178 antwortet nicht
19	Tuner antwortet nicht
20	I2C Bus ist blockiert
21	I2C Bus Data ist immer L
23	I2C Bus Clock ist immer L
25	Geschaltete 5V nicht vorhanden
26	Bildrohr ist nicht rechtzeitig aufgeheizt
27	Schutzschaltung hat dreimal ausgelöst
28	Vertikal-Schutzschaltung ist aktiv
29	Horizontal-Schutzschaltung ist aktiv
31	Softwarefehler (nur für Produktionsstätten)
32	Softwarefehler (nur für Produktionsstätten)
34	NVM (EEPROM) antwortet nicht
35	5V und 8V nicht vorhanden
36	Softwarefehler (nur für Produktionsstätten)
37	Unerwarteter Zustand auf NMI-Leitung
38	Softwarefehler (nur für Produktionsstätten)
39	I2C Bus Data-Leitung nicht reaktivierbar
41	Power down detection TDA9178 (PSI)
42	Problem während des Resets TDA9320 (HIP)
43	Problem während des Resets TDA9330 (HOP)
44	NRF Bit Problem (nur für Produktionsstätten)
45	FLS Bit Problem (nur für Produktionsstätten)
46	NHF Bit Problem (nur für Produktionsstätten)
47	NDF Bit Problem (nur für Produktionsstätten)
48	XPR Bit Problem (nur für Produktionsstätten)
49	Problem mit Bits SXA...D (nur für Produktionsst.)



SERVICE POSITION - POSITION SERVICE - SERVICESTELLUNG - POSIZIONE SERVIZIO - POSIÇÃO SERVIÇO

A - CHASSIS - CHASIS

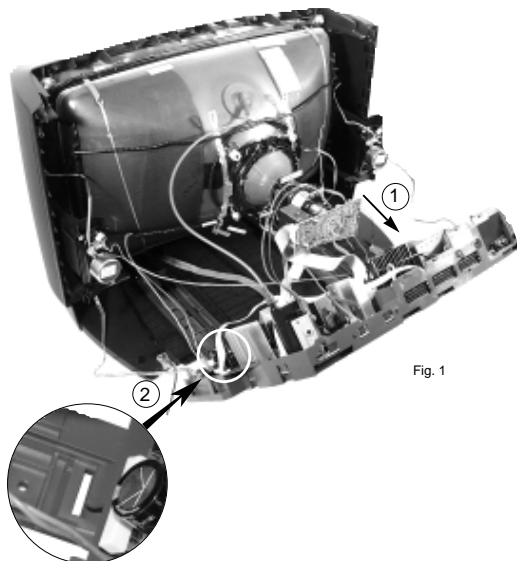


Fig. 1

- 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 réglettes 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).

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

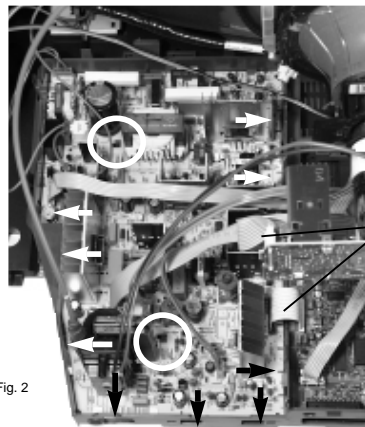


Fig. 2

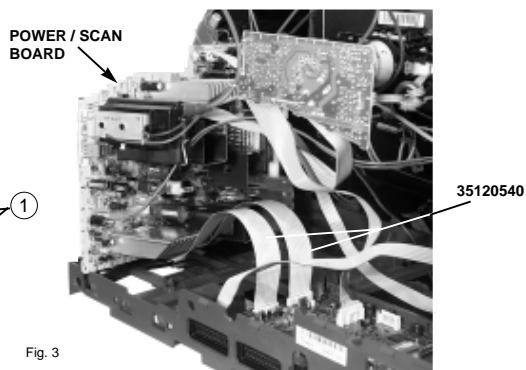


Fig. 3

- 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).

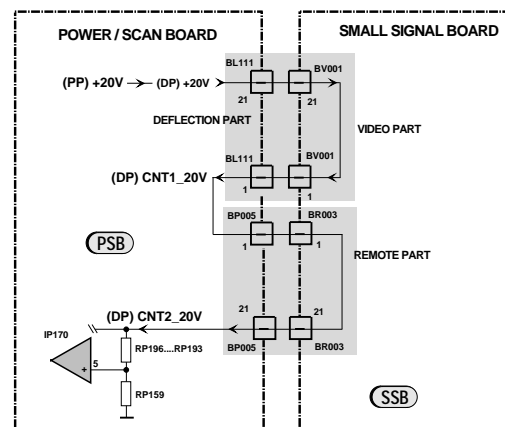
- 1- Togliere i due cavi di collegamento PSB/SSB (1) (Fig.2) e liberare la piastra "PSB" dal telaio premendo il linguetto di fissaggio (9 periferiche e due interne) collegare le prolunghe PSB/SSB (35120540) (Fig.3).
- 2- Sistemare la piastra PSB in posizione di service (Fig. 3).

- 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)

ICC20

First issue 05 / 00

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 BV001.

CNT1_20V => sécurité de la nappe BL111 / BV001

CNT2_20V => sécurité de la nappe BP005 / BR003.

Si l'une de ces tensions (20V inclue) 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 fototransistor 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

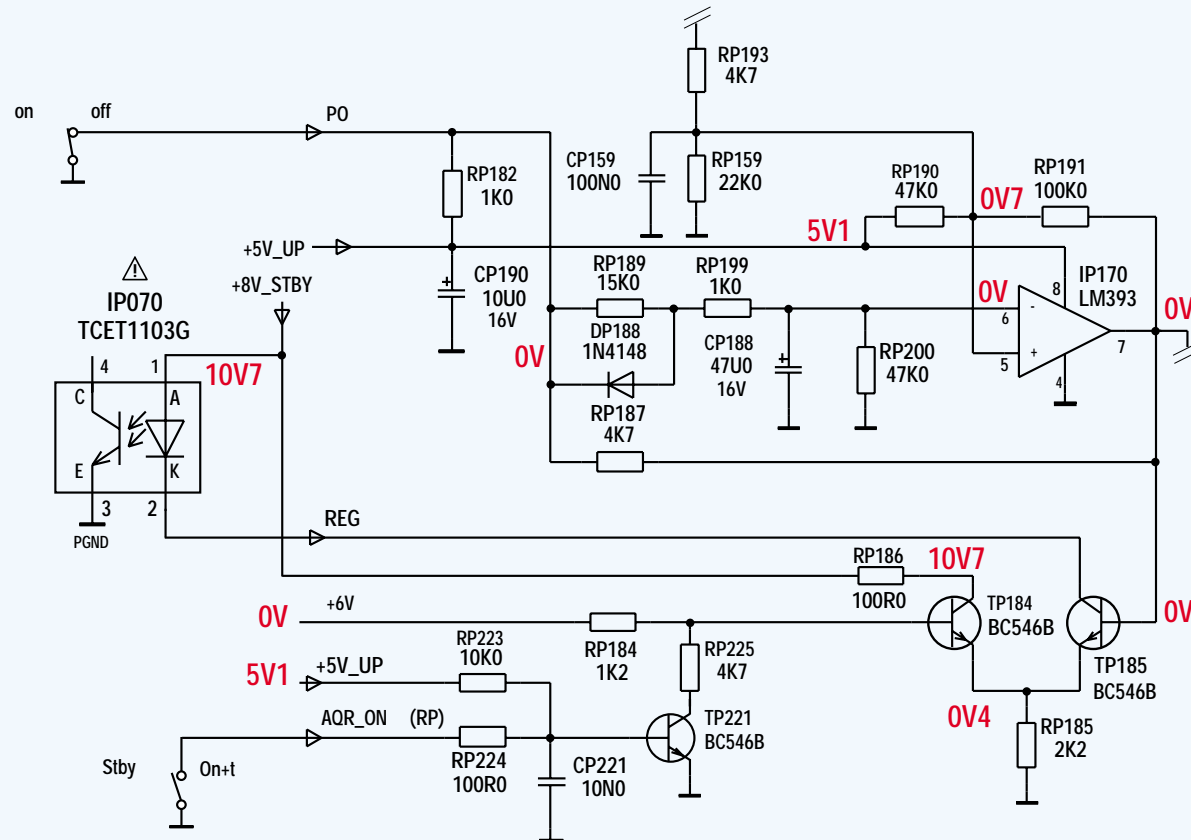
CNT1_20V => seguridad del mazo BL111 / BV001

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)

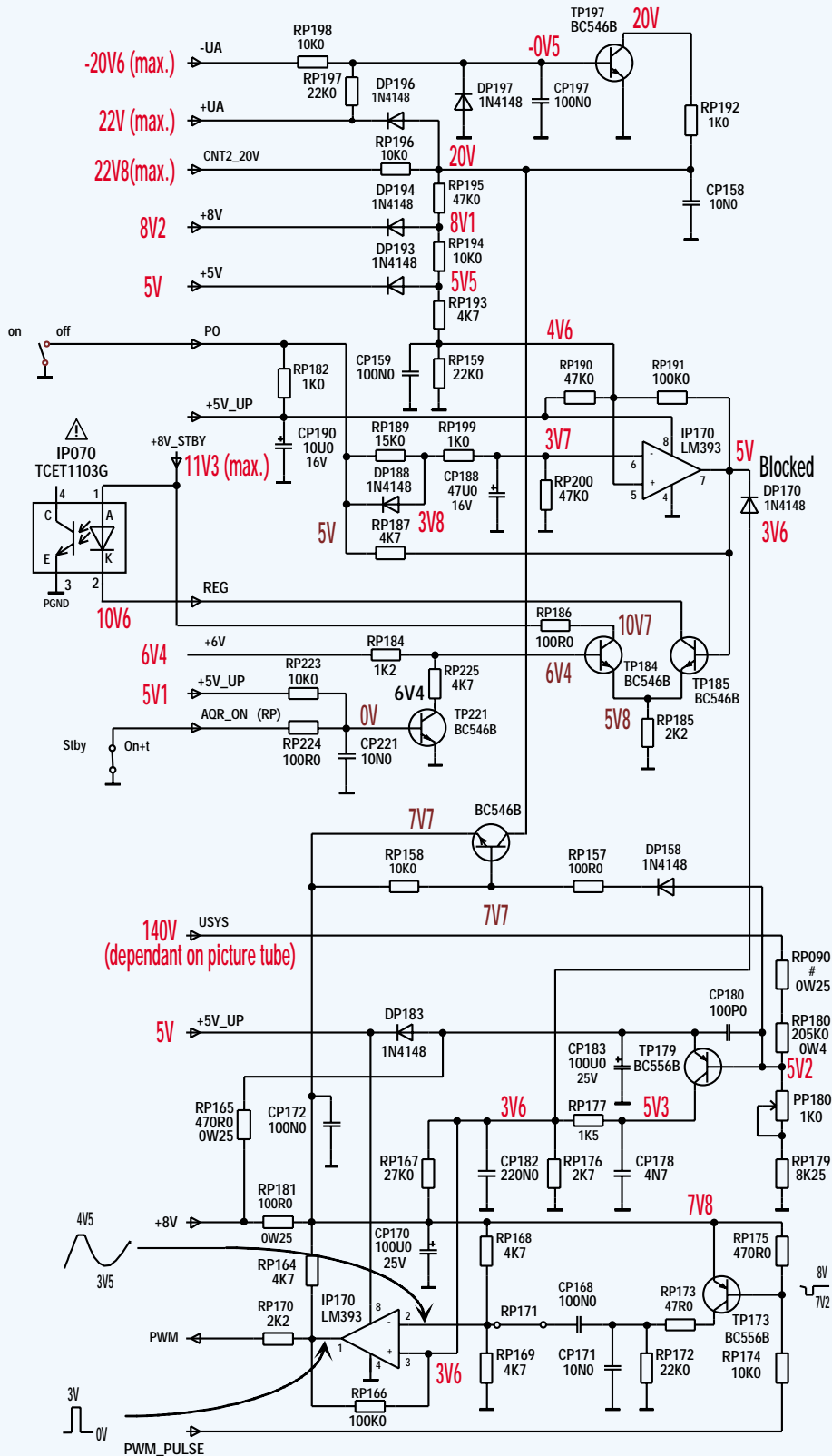
SECONDARY SAFETY VOLTAGES MEASUREMENTS

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**

Cathode of diode DR120

