

HITACHI

TP

No.0006



V21318

VT-700 Series

SERVICE MANUAL SUPPLEMENT

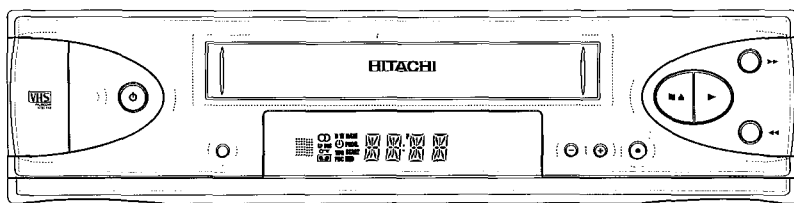
Wartungsanleitung Ergänzung

Documentation Technique Supplément

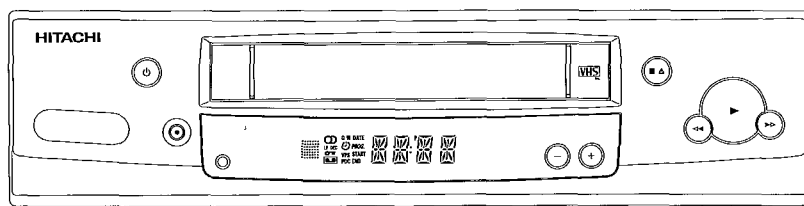
THIS SUPPLEMENT SHOULD BE USED IN CONJUNCTION WITH THE SERVICE MANUAL FOR VT-600 SERIES No 0005.

Diese Ergänzung ist in Verbindung mit Wartungsanleitung VT-600 SERIE Nr. 0005 zu verwenden.

Ce supplément doit être utilisé en association avec la Documentation Technique de la série VT-600 N° 0005.



FX752ELN, MX702EL, MX705EVPS, MX710EPV, MX730EVPS, MX732EL



MX705EUK, FX742ELN

VT-FX742ELN
VT-FX752ELN
VT-MX702EL
VT-MX705EUK
VT-MX705EVPS
VT-MX710EPV
VT-MX730EVPS
VT-MX732EL

VHS

This video deck is a VHS type video recorder. For proper operation, only the VHS type cassette must be used.

VHS

Dieser Video-Recorder entspricht dem VHS-Format. Für richtigen Betrieb müssen daher VHS-Magnetband-Cassetten verwendet werden.

VHS

Cet appareil est un magnétoscope format VHS. Pour un fonctionnement optimal n'utiliser que des cassettes VHS.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT
Änderungen der technischen Daten und Teile im Sinne ständiger Verbesserung vorbehalten.
A des fins d'amélioration, les spécifications et les pièces sont sujets à modifications.

VIDEO CASSETTE RECORDER

Video-Cassettenrecorder

Magnétoscope à cassette

PCS 93771

April 1998

HITACHI HOME ELECTRONICS EUROPE

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		Roller unit right	
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Features

	Modulator		System				Tuning System				Mechanism				Video				Audio		Programming		Special features				Connectors		Cinch connectors																
	VT-FX742ELN	VT-FX752ELN	VT-MX702EL	VT-MX705EUK	VT-MX705EVPS	VT-MX710EPV	VT-MX730EVPS	VT-MX732EL	Splitter for France	Autosearch	Autoinstall	Cable tuner	Tuner only mode	Videoheads	Audioheads linear mono	Audioheads FM	Winding Time 260s (E180)	Rewind Time 170s (E180)	Tape counter linear	NTSC Playback	VISS next/previous	Quick view	Longplay (8h)	Studio picture control	NICAM	Stereo HIFI	Daily/weekly	Showview / Video+	VPS / PDC / VPS + PDC	Record prep. mode Scart 2	Child lock	OTR / Remote	Time download	Follow TV	Low power standby (W)	Backup time of clock (h)	Scartconnectors	Video in front	Audio in front (left & right)	Audio out rear (left & right)					
									✓	✓	✓	✓	4	1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SV	VPDC	✓	✓	✓	✓	✓	6	7	2				✓					
									✓	✓	✓	✓	4	1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SV	VPDC	✓	✓	✓	✓	✓	6	7	2	✓	✓	✓				✓		
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				✓					✓	✓	✓	✓	4	1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SV	VPDC	✓	✓	✓	✓	✓	6	7	2									

Survey of sets and PCB's

		QMB - MOTHERBOARD																					Chapter 4			
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		PAL I	PAL BG	SECAM BG	SECAM L/L'									QTP2-xU	QDCE1-xP	QDCE2-xU	QDCH2-xU	CINCH rear	QBOC1	QNIC	WDQ-P2/0	WDQ-P2/0LP	WDQ-S4/0	WDQ-S4/2		
	VT-FX742ELN	✓	✓	✓	✓									✓			✓	✓		✓						
	VT-FX752ELN	✓	✓	✓	✓									✓			✓	✓		✓						
	VT-MX702EL	✓	✓	✓	✓									✓				✓								
	VT-MX705EUK	✓												✓												
	VT-MX705EVPS		✓											✓							✓					
	VT-MX710EPV		✓											✓								✓				
	VT-MX730EVPS		✓											✓								✓				
	VT-MX732EL	✓	✓	✓										✓								✓				


(GB) Safety instructions

- Safety regulations demand that the set be restored to its original condition and that components identical with the original types be used
Safety components are marked by the symbol 
- All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist strap with resistance. Keep components and tools on the same potential
- A set to be repaired should always be connected to the mains via a suitable isolating transformer
- Never replace any modules or any other parts while the set is switched on
- Use plastic instead of metal alignment tools. This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable

Remarks

- The direct voltages and oscillograms ought to be measured relative to the set mass
EXCEPTION
At the power supply, the DC voltages and the oscillograms at the primary side are measured to LIVE GND
- The direct voltages and oscillograms mentioned in the diagrams ought to be measured with a colour bar signal and the picture carrier at 503.25 MHz (C25)
- The oscillograms and direct voltages have been measured in RECORD or PLAY mode
- The semiconductors, which are mentioned in the circuit diagram and in the parts lists, are fully exchangeable per position with the semiconductors in the set, irrespective of the type designation of these semiconductors

(D) Sicherheitshinweise

- Die Sicherheitsvorschriften erfordern es, daß sich das Gerät nach der Reparatur in seinem originalen Zustand befindet und daß die zur Reparatur benutzten Ersatzteile mit den Originalersatzteilen identisch sind
Sicherheits-Bauteile sind mit der Markierung  versehen
- Alle IC's und Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD). Unvorschriftsmässige Behandlung von Halbleitern im Reparaturfall kann zur Zerstörung dieser Bauteile oder zu einer drastischen Reduzierung der Lebensdauer führen. Sorgen Sie dafür, daß Sie sich im Reparaturfall über ein Armband mit Widerstand auf dem gleichen Potential, wie die Masse des Gerätes befinden. Alle Bauteile, Werkzeuge und Hilfsmittel sind auf das gleiche Potential zu legen.
- Ein zu reparierendes Gerät ist immer über einen Trenntransformator an die Netzspannung anzuschließen.
- Bei eingeschaltetem Gerät dürfen keine Module oder sonstige Einzelteile ausgetauscht werden
- Zum Abgleich sind ausschließlich Kunststoffwerkzeuge zu benutzen (keine Metallwerkzeuge verwenden). Dadurch wird vermieden, daß ein Kurzschluß entstehen kann oder eine Schaltung instabil wird

Anmerkungen

- Die Gleichspannung und Oszillogramme sind gegen Gerätemasse zu messen
AUSNAHME
Beim Netzteil sind die Gleichspannungen und Oszillogramme auf der Primärseite gegen Live GND gemessen.
- Die Gleichspannungen und Oszillogramme angeführt in den Schaltbildern sollen unter folgenden Bedingungen gemessen werden: Farbbalkensignal, Bildträger auf 503.25 MHz (C25)
- Die Oszillogramme und Gleichspannungen sind in RECORD oder PLAY gemessen. Die in den Stücklisten aufgeführten Bauteile sind positionsweise voll auswechselbar gegen die Bauteile in dem Gerät, ungeachtet der etwaigen Typenbezeichnungen

(F) Avertissements

- Les normes de sécurité exigent qu'après réparation l'appareil soit remis dans son état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées


Les composants de sécurité sont marqués 

- Tout les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharger statiques (ESD). Leur longévité pourrait être considérablement écourté par le fait qu'aucune précaution n'est prise à leur manipulation. Lors de réparations s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.
- Toujours alimenter un appareil à réparer à travers un transfo d'isolement
- Ne jamais remplacer les modules ni d'autres composants quand l'appareil est sous tension
- Pour l'ajustage, utiliser des outils en plastique au lieu d'instruments métalliques. Ceci afin d'éviter les court-circuits et exclure l'instabilité dans certains circuits

Observations

- La mesure des tensions continues et des oscillogrammes doit se faire par rapport à la terre de l'appareil
EXCEPTION
Sur l'unité d'alimentation la tension continue et l'oscillogramme sont mesurés sur le côté primaire en Live GND
- La mesure des tensions continues et des oscillogrammes figurant sur le schéma doit se faire dans un signal de barre couleur porteuse image sur 503.25 MHz (C25)
- Les oscillogrammes et tension sont mesurées en mode RECORD ou PLAY
- Les semi-conducteurs indiqués dans le schéma de principe et à la liste des composants, sont interchangeable par repère sur ce chassis avec les semi-conducteurs de l'appareil quelle que soit la désignation de type donnée sur ces semi-conducteurs


(NL) Veiligheidsinstructies

- Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, indientiek aan de oorspronkelijke, worden toegepast
De veiligheidsonderdelen zijn aangeduid met het symbool 
- Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor, dat U tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal
- Sluit een apparaat dat gerepareerd wordt altijd via een scheidingstransformator aan op de netspanning
- Verwissel nooit modules of andere onderdelen terwijl het apparaat is ingeschakeld.
- Gebruik voor het afregelen plastic i.p.v. metalen gereedschap. Dit om mogelijke kortsluiting te voorkomen of een bepaalde schakeling instabil te maken

Opmerkingen

- De gelijkspanningen en oscillogrammen dienen gemeten te worden ten opzichte van de apparaat aarde
- De gelijkspanningen en oscillogrammen vermeld in de schema's dienen gemeten te worden met een kleurbalkensignaal beeldraaggolf op 503.25 MHz (C25).
- De oscillogrammen en gelijkspanningen zijn in RECORD of PLAY mode gemeten.
- De halfgeleiders, die in het pricipeschema en in de stuklijsten, zijn vermeld, zijn per positie volledig uitwisselbaar met de halfgeleiders in het apparaat, ongeacht de typeaanduiding op deze halfgeleiders

I Avvertimenti

- Le prescrizioni di sicurezza richiedono che l'apparecchio sia ricondotto alle condizioni originali e che siano usati ricambi originali
Componenti di sicurezza sono marcati con 
- Tutti gli IC e semiconduttori sono sensibili a scariche elettrostatiche (ESD) Noncuranze durante la riparazione di semiconduttori possono danneggiarli o condurre ad una riduzione drastica della durata. Durante la riparazione assicurarsi di essere collegati allo stesso potenziale attraverso un bracciale di protezione contro scariche elettrostatiche. Inoltre tenere anche tutti i componenti e gli attrezzi a questo potenziale
- Apparecchi da riparare bisogna collegarli sempre via un trasformatore isolante (separator) alla tensione normale
- Non scambiare moduli o altri componenti quando l'apparecchio è in funzione
- Per l'accordo usare soltanto attrezzi di plastica (non usare attrezzi metallici). Così si evitano cortocircuiti e collegamenti instabili

Osservazioni

- Misurare le tensioni continue e gli oscillogrammi riferendosi alla massa dell'apparecchio
ECCEZIONE
Le tensioni continue e gli oscillogrammi dall'alimentatore sono misurati sulla parte primaria contro GND-Live
- Le tensioni continue e gli oscillogrammi indicati negli schemi di collegamento devono essere misurati secondo le condizioni seguenti: segnale barre colore, portante dell'immagine su 503.25 MHz (C25).
- Gli oscillogrammi e le tensioni continue sono misurati in RECORD o PLAYBACK
- I componenti indicati nelle liste sono intercambiabili con quelli nell'apparecchio nonostante l'eventuale denominazione di modelli

GB WARNING FOR LITHIUM BATTERIES!

Lithium batteries, if incorrectly used (excessive heat, wrong connection of terminals, short circuit) represent a danger of explosion!

Lithium batteries must be replaced only by original spare parts.

D WARNHINWEIS ZU LITHIUM-BATTERIEN!

Bei falscher Handhabung (Überhitzung, Falschpolung oder Kurzschluss) der Lithium-Batterien besteht Explosionsgefahr!

Lithium-Batterien dürfen nur gegen Originalersatzteile getauscht werden

F ATTENTION!


Pile au lithium

Danger d'explosion si traitée incorrectement. Ne peut être remplacée que par un spécialiste (comme décrit dans les instructions de réparation)

NL OPGELET MET LITHIUM-BATTERIJEN!

Bij foutieve behandeling (oververhitting, foutieve poling of kortsluiting) van lithium-batterijen bestaat er explosiegevaar! Lithium-batterijen mogen slechts door originele onderdelen vervangen worden

E Avisos

- Las instrucciones de seguridad exigen que después de la reparación el aparato se encuentre en el estado original y que las piezas de repuesto, utilizadas para la reparación, sean idénticas a las originales.
Los componentes de seguridad están marcados con 
- Todos los IC y semiconductores son sensibles a descargas electrostáticas (ESD). Un tratamiento no conforme a las instrucciones de semiconductores en caso de reparación, podría llevar a la destrucción de estos componentes, o a una reducción drástica de la duración. Tenga cuidado de que, en caso de reparación, estar al mismo potencial que la masa del aparato, por una pulsera con resistencia. Ponga todos los componentes, herramientas y recursos al mismo potencial
- Para reparar un aparato hay que conectarlo siempre a la alimentación a través de un transformador de aislamiento.
- Cuando un aparato está en marcha no pueden ser cambiados módulos u otras piezas de repuesto
- Para los ajustes hay que utilizar exclusivamente herramientas de plástico (nunca herramientas metálicas). Así se evitan cortocircuitos y circuitos inestables

Notas

- Hay que medir las tensiones continuas y los oscilogramas contra la masa del aparato
UITZONDERING
Bij het netgedeelte zijn de gelijkspanningen in oscilogrammen aan de primaire kant tegen Live GND gemeten.
- Las tensiones continuas y los oscilogramas mencionados en los esquemas tienen que ser medidos de manera siguiente: señal barra de color portadora de imagen en 503.25MHz (C25)
- Los oscilogramas y las tensiones continuas son medidas en „RECORD“ y „PLAYBACK“
- Los componentes mencionados en las listas se los puede cambiar por los componentes en el aparato, a pesar de eventuales designaciones de tipos

I ATTENZIONE CON LE PILE AL LITIO!

In caso di utilizzo errato (surriscaldamento, errata posizione dei poli o cortocircuito) delle pile al litio consiste pericolo di esplosione! Le pile al litio si possono sostituire solo con pezzi di ricambio originali.

E AVISO!

Bateria de litio

Por una inadecuada intervención puede explotar.

Solo debe ser cambiada por una persona con conocimientos técnicos (como en la guía de reparación se describe)

DK ADVARSEL!

Lithium batteri Eksplosionsfare

Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanualen.

S VARNING!

Eksplosionsfara vid felaktigt batteribyte!

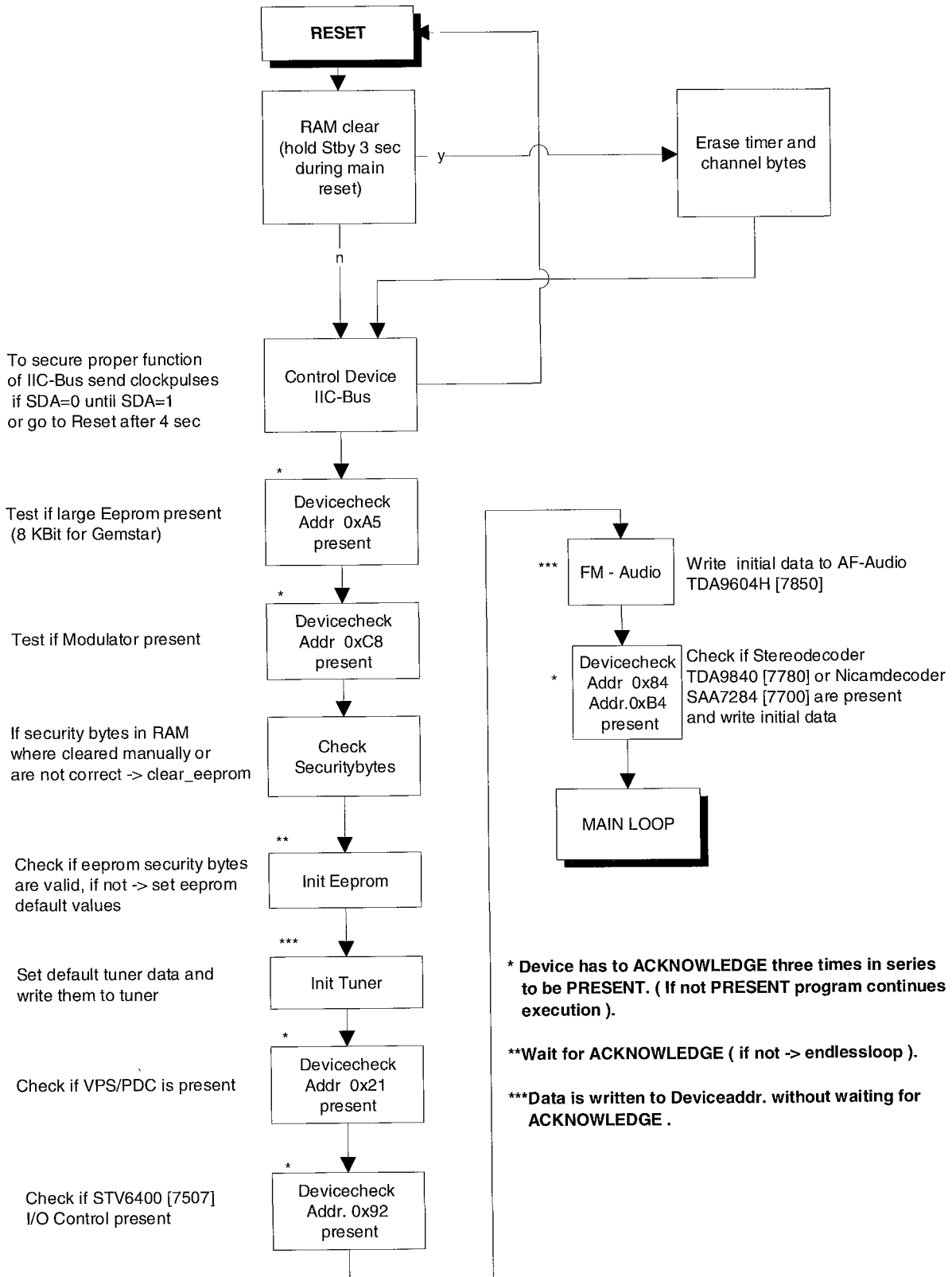
Ånvänd samma batterityp eller ekvivalent typ som rekommenderas av apparattillverkaren

SF VAROITUS!

Paristo voi räjähtää, jos se on virheellisesti asennettu!

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin

Start - up Phase of the display control - μ P



GB

TECHNICAL DATA

Mains voltage	Netzspannung
Mains frequency	Netzfrequenz
Power consumption:	Leistungsaufnahme
without Low Power Standby	Standby
with Low Power Standby	Standby mit geringem Verbrauch
Ambient temperature	Raumtemperatur
Relative humidity	Relative Luftfeuchtigkeit
Dimensions	Abmessungen
Weight	Gewicht
Fast forward/rewind time (turbo)	Vor-/Rückspulzeit (turbo)
Position of use	Betriebslage
Video resolution	Video-Auflösung
Audio	Audio

D

TECHNISCHE DATEN

F

CARACTERISTIQUES

Tension secteur	220 - 240 V, +/- 10%
Fréquence	45 - 65 Hz
Puissance absorbée:	mono 12.5 W during operation
	HiFi 16 W during operation
	mono 9.5 W
	HiFi 11 W
mode veille normale	< 6 W standby
mode veille faible consommation	< 6 W standby
Température ambiante	+10°C to +35°C
Humidité relative	20 - 80 %
Encombrement	380 x 260 x 94 mm
Poids	3,7 kg
Temps (re-)bobinage (turbo)	typ. 100s (E180 cass)
Position d'emploi	horizontally, max 15°
Puissance absorbée	≥240 lines
Audio SP. Linear Audio	80Hz - 10kHz (≤8dB)
Audio LP. Linear Audio	80Hz - 5kHz (≤8dB)
Stereo FM Audio	20Hz - 20kHz (≤3dB)

NL

TECHNISCHE GEGEVENS

Netspanning	Tensión de red
Netfrequentie	Frecuencia de red
Opgenomen vermogen	Consumo de potencia:
zonder Low Power Standby	sin standby de bajo consumo
met Low Power Standby	con standby de bajo consumo
Omgevingstemperatuur	Temperatura ambiente
Relatieve vochtigheid	Humedad relativa
Afmetingen	Dimensiones
Gewicht	Peso
Vooruit/terugspoeltijd (turbo)	tiempo de (re-)bobinado (turbo)
Gebruikspositie	Posición de uso
Oplossend vermogen	Resolución video
Audio	Audio

E

DATOS TECNICOS

I

DATI TECNICI

Tensione di alimentazione	220 - 240 V
Frequenza di rete	45 - 65 Hz
Potenza assorbita:	mono 12.5 W during operation
	HiFi 16 W during operation
	mono 9.5 W during standby
	HiFi 11 W during standby
in attesa non a basso consumo	< 6 W standby
in attesa a basso consumo	< 6 W standby
Temperatura ambiente	+10°C to +35°C
Umidità relativa	20 - 80 %
Dimensioni	380 x 260 x 94 mm
Peso	3,7 kg
Tempo di (ri-)avvolgimento (turbo)	typ. 100s (E180 cass.)
Posizione di funzionamento	horizontally, max 15°
Risoluzione video	≥240 lines
Audio SP. Linear Audio	80Hz - 10kHz (≤8dB)
Audio LP. Linear Audio	80Hz - 5kHz (≤8dB)
Stereo FM Audio	20Hz - 20kHz (≤3dB)

Euroconnector (AV1) SCART plug 1

Connection to TV, monitor, projection TV

Pin 1 ARO (audio right out)	500 mV _{rms} +/- 3 dB	R _{out} 1 kOhm
Pin 2 ARI (audio right in)	0,2 V _{rms} to 2 V _{rms}	R _{in} 10 kOhm
Pin 3 ALO (audio left out)	500 mV _{rms} +/- 3 dB	R _{out} 1 kOhm
Pin 6 ALI (audio left in)	0,2 V _{rms} to 2 V _{rms}	R _{in} 10 kOhm
Pin 7 Blue (out) **)		
Pin 8 Switching output.	(with R _{load} = 10kOhm, C _{load} < 2nF)	
	low: 2 V	
	high: 9.5 V	
	rise time: 5 ms	

Pin 11 Green (out) **)

Pin 15 Red (out) **)

Pin 16 Blanking (out) **) loop through enabled during standby, view-mode

Pin 19 CVBS II (video out) 1 V_{pp} +/- 2dB R_{out} 75 OhmPin 20 CVBS I (video in) 1 V_{pp} +/- 3dB R_{in} 75 Ohm

**) passive loop through from AV2

Euroconnector (AV2) SCART plug 2

Connection to decoder, SAT tuner, video disc, 2nd VCR

Pin 1 ARO (audio right out)	500 mV _{rms} +/- 3 dB	R _{out} 1 kOhm
Pin 2 ARI (audio right in)	0,2 V _{rms} to 2 V _{rms}	R _{in} 10 kOhm
Pin 3 ALO (audio left out)	500 mV _{rms} +/- 3 dB	R _{out} 1 kOhm
Pin 6 ALI (audio left in)	0,2 V _{rms} to 2 V _{rms}	R _{in} 10 kOhm
Pin 7 Blue (in) *)		
Pin 8 Switching input only	low: 2 V (low)	R _{in} 10 kOhm
	high: 4.5 V (high)	R _{in} 10 kOhm

Pin 11 Green (in) *)

Pin 15 Red (in) *)

Pin 16 Blanking (in) **) loop through enabled during standby, view-mode

Pin 19 CVBS II (video out) 1 V_{pp} +/- 2dB R_{out} 75 OhmPin 20 CVBS I (video in) 1 V_{pp} +/- 3dB R_{in} 75 Ohm

**) passive loop through to Euroconnector AV1

Cinch Audio/Video input on front panel (OPTION)**Audio:**

AINFR (audio right in) red	0.2 V _{rms} to 2 V _{rms}	typ. 500 mV _{rms}
AINFL (audio left in) white	0.2 V _{rms} to 2 V _{rms}	typ. 500 mV _{rms}
Input impedance	47 kOhm	

Video:

VFR yellow	1 V _{pp} +/- 3/-3 dB
Input impedance	75 Ohm

Cinch Audio Out Rear (OPTION)

AOUT1R (audio right out) red	500 mV _{rms} +/- 3 dB	R _{out} 1 kOhm
AOUT1L (audio left out) white	500 mV _{rms} +/- 3 dB	R _{out} 1 kOhm

This outputs are in parallel with the corresponding outputs on Euroconnector 1.

TUMOD**Modulator:**

Frequency range loop through	45 MHz - 860 MHz
Gain ANT IN - TV OUT	2 dB +/- 3/-2 dB
ANT IN - TUN OUT	2 dB +/- 3/-2 dB
Switch for RF input attenuation	NO
Frequency range out (tuned by IIC bus) Ch 21 - Ch55	

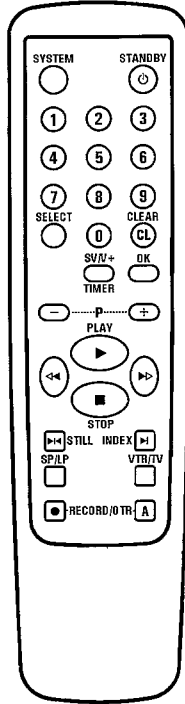
Tuner:

Frequency range	43 MHz - 860 MHz
for UK	450 MHz - 860MHz

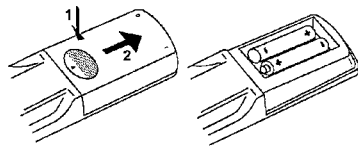
Input voltage max.	< 100 dBμV
min	> 60 dBμV

OPERATING INSTRUCTIONS IN BRIEF

The remote control

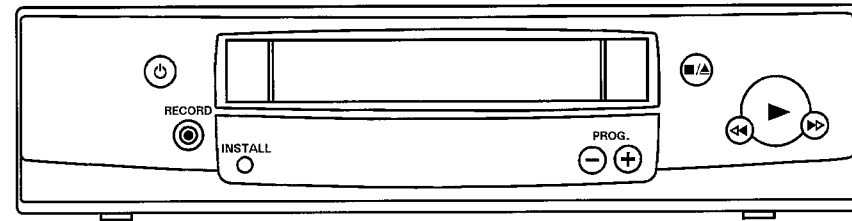


- SYSTEM** Special function
- STANDBY** Standby
- 0-9** Digit buttons 0-9
- SELECT** Function selector
- CLEAR (CL)** Reset, clear
- SV/V+/TIMER** "TIMER" programming
- OK** Confirm button
- P-** Down/Minus, number plus
- P+** Up/Plus, number minus
- PLAY** Playback
- ◀◀** Rewind/Reverse scanning
- ▶▶** Forward wind/ Forward scanning
- STOP** Pause/Stop, Tuner-mode
- STILL** Still picture
- INDEX** Index search
- SP/LP** SP/LP selection
- VTR/TV** TV monitor function
- RECORD/OTR** Record
 - A** Activate record button
(**RECORD/OTR** and **A** button simultaneously)



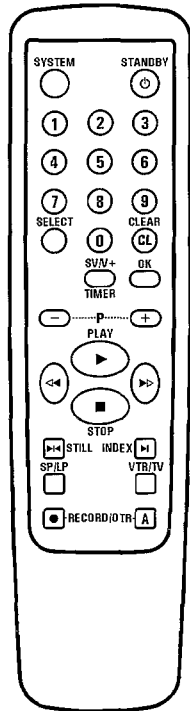
Front of the video recorder

- Standby** (power icon)
- RECORD** (cassette icon) Record
- INSTALL** Installation button
- PROG. -** Down/Minus, number
- PROG. +** Up/Plus, number
- Stop/Cassette eject** (square with triangle icon)
- ◀◀** Rewind/Reverse scanning
- ▶** Playback
- ▶▶** Forward wind/ Forward scanning

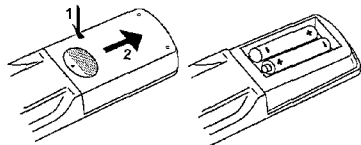


OPERATING INSTRUCTIONS IN BRIEF

The remote control

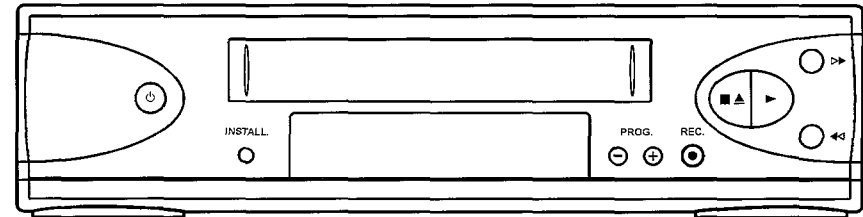


- SYSTEM** Special function
- STANDBY** Standby
- 0-9** Digit buttons 0-9
- SELECT** Function selector
- CLEAR (CL)** Reset, clear
- SV/V+ /TIMER** 'VIDEOPlus' or 'TIMER' programming
- OK** Confirm button
- P-** Down/Minus, programme number
- P+** Up/Plus, programme number
- PLAY** Playback
- ◀◀** Rewind/Reverse scanning
- ▶▶** Forward wind/ Forward scanning
- STOP** Pause/Stop, Tuner-mode
- STILL** Still picture
- INDEX** Index search
- SP/LP** (SP/LP) selection
- VTR/TV** TV monitor function
- RECORD/OTR** Record
- A** Activate record button
(**RECORD/OTR** and **A** button simultaneously).



Front of the video recorder

- Standby** (power icon)
- INSTALL** Installation button
- PROG. -** Down/Minus, programme number
- PROG. +** Up/Plus, programme number
- REC.** Record
- Stop/Cassette eject** (stop icon)
- Playback** (play icon)
- Forward wind/ Forward scanning** (fast forward icon)
- Rewind/Reverse scanning** (fast rewind icon)



List of abbreviations

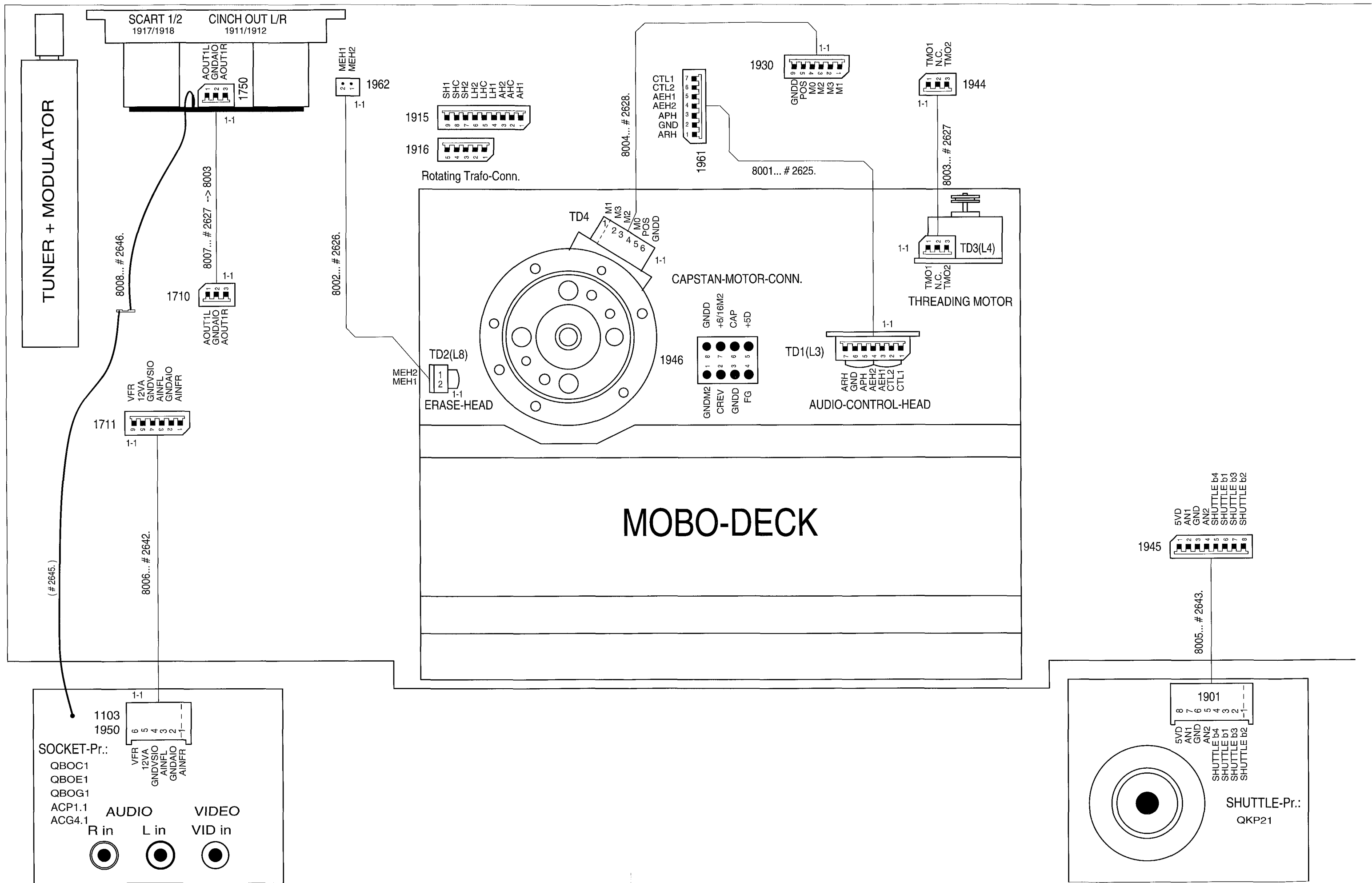
Signal	Description	Application											
+5AS	+5V analog after fuse 1700												QNIC
+5ASS	+5V digital, after coil 5706												QNIC
+5D	+5V digital			DE									QNIC
-28V	-28V display supply	PS			DC			IO					
-7V	-7V I/O-switches supply							IO					
12SW	+12V analog (< 6W switched)	PS					AL		FV				QNIC
12VA	+12V analog	PS						IO	FV	AF			
14VM1	+14V for threading- and headmotor	PS		DE									
2FSC	2x Colour subcarrier					VS						OS	
33V	+33V for tuner tuning voltage	PS							FV				
5VA	+5V analog	PS						IO	FV	AF	OS		
5VASW	+5V analog (< 6W switched)	PS	HA	DE		VS			SE	FV		OS	QNIC
5VASW2	+5V analog after coil 5802											OS	
5VASWB	+5V analog after coil 5726									FV			
5VD	+5V digital	PS		DE	DC					FV			
5VD1	+5V digital, after coil 5200				DC								
5VD2	+5V digital, after coil 5400			DE									
8SC1	Scart 1 pin 8 output			DE				IO					
8SC2	Scart 2 pin 8 input			DE				IO					
9/14VM2	Capstan motor supply, switched	PS		DE									
AEH1/2	Audio erase head							AL					
AF1	Audio from frontend, left							AL	IO		FV	AF	
AF2	Audio from frontend, right										FV	AF	
AFC	Automatic frequency control				DC						FV		
AFE	Audio from frontend										FV		QNIC
AGC	Automatic gain control			DE							FV		
AH1/2/C	Audio heads		HA										
AIN1	Audio input scart 1							AL	IO				
AIN1L	Audio input scart 1, left								IO			AF	
AIN1R	Audio input scart 1, right								IO			AF	
AIN2	Audio input scart 2							AL	IO				
AIN2L	Audio input scart 2, left								IO			AF	
AIN2R	Audio input scart 2, right								IO			AF	
AINFL	Audio left from Front connector								IO			AF	
AINFR	Audio right from front connector								IO			AF	
AMCO	Audio to the modulator										FV	AF	
AML	Audio mono playback							AL	IO		FV	AF	
AMLR	Audio mono record							AL	IO			AF	
AN1/2	Analog voltage from keyboard matrix				DC								
ANIL	NICAM Audio, left										FV		QNIC
ANIR	NICAM Audio, right										FV		QNIC
AOUT1L	Audio output from scart 1, left								IO			AF	
AOUT1R	Audio output from scart 1, right								IO			AF	
AOUT2L	Audio output from scart 2, left								IO			AF	
AOUT2R	Audio output from scart 2, right								IO			AF	
APH	Audio playback head							AL					
ARH	Audio record head							AL					
BLANKING	Blanking pulse RGB loophrough								IO				
BLUE	Blue signal between scart 1/2								IO				
CAP	Capstan control voltage			DE									
CKDET	Colour system information			DE		VS							
CLKD1	Serial bus clock			DE	DC								
CREV	Capstan reverse			DE									
CROT	Colour rotation on/off			DE		VS							

Signal	Description	Application																		
CSCP	Colour phase switching for LP feature mode			DE		VS														
CSI	Colour system information			DE							SE									
CSP	Chrominance secam playback					VS					SE									
CSR	Chrominance secam record			HA							SE									
CSW	8V/14V switching for capstan motor	PS		DE																
CSYNC/1/2	Composite sync pulse			HA	DE		VS				SE								OS	
CTL1/2	Control track signal			DE						AL										
DATD1/2	Serial bus data			DE	DC															
DEC	Audio switching voltage										IO									
ENVC	Envelope comparator signal			HA	DE															
FFP	Feature frame pulse			DE		VS														
FG	Capstan tach pulse			DE																
FGD	Capstan tach pulse digital			DE																
FMAP	FM audio playback			HA															AF	
FMAR	FM audio record			HA															AF	
FMPV	FM video playback			HA			VS				SE									
FMRV	FM video record			HA			VS													
FOME	Follow Me (video signals equal)			DE															OS	
FTA	Threading tach			DE																
FTAD	Threading tach digital			DE																
GND A	Ground analog										IO		FV						QNIC	
GND A1/A2	Ground analog QNIC																			QNIC
GND AF	Ground analog AF																		AF	
GND AIO	Ground analog IO										IO									
GND AL	Ground analog AL										AL									
GND D	Ground digital			DE							IO								AF	QNIC
GND EO	Ground erase oscillator										AL									
GND M	Ground capstan motor			DE																
GND VS	Ground signal electronics																		AF	
GND VSIO	Ground analog VS, IO										IO									
GREEN	Green signal between scart1/2										IO									
HEHI	Heater for displaytube high	PS				DC														
HELO	Heater for displaytube low	PS				DC														
HEST	Heater voltage control signal					DC														
HP2	Head pulse audio			HA	DE														AF	
I/R	Deck switch / Record protection				DE															
I LED	LED-tower supply				DE															
INIT	Deck switch				DE															
IPOR	Inverse power on reset				DE	DC														
IRAF	Inverse record FM-audio			HA	DE															
IREV	Dubbing oscillator on/off				DE		VS	AL												
ISTBY	Inverse stand by	PS				DC														
ISWS	Video-FM mute				DE		VS													
IWIND	Control pulse amplification low				DE															
LH1/2/C	Long play heads			HA																
MEH1/2	Main erase head										AL									
MON	Monitor loop through scart 1/2										IO									
MOT0-3	Head motor Control lines				DE															
MTA	Audio mute				DE			AL												
NC	Not connected				DE															
OCLK	OSD-bus clock					DC													OS	
OCS	OSD chip select					DC													OS	
ODAT	OSD-bus data					DC													OS	
OPF	Frame pulse				DE														OS	

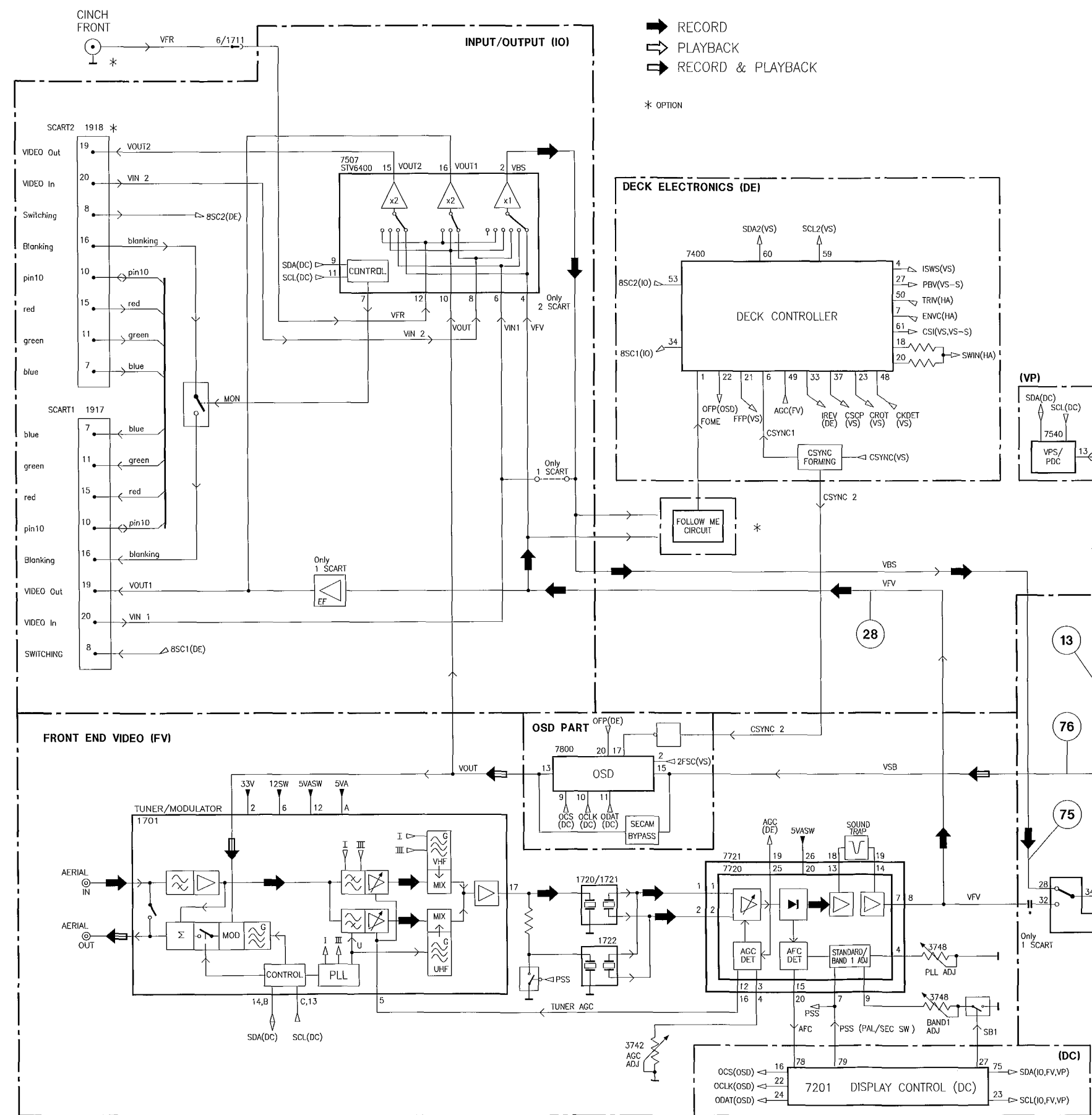
Signal	Description	Application													
		DE	DC	VS	IO	FV	AF	OS	QNIC	HA	SE				
PBV	Playback	DE							SE						
PG/FG	Head wheel position/-speed	DE													
POS	Position pulse headwheel	DE													
PSS	PAL or secam-L		DC					FV							
RECP	Record protection	DE													
RED	Red signal between scart 1/2						IO								
REEL	Head wheel control	DE													
SB1	Secam band 1		DC					FV							
SCL	IIC bus clock					IO		FV	AF	OS	QNIC				
SCL2	Serial bus clock	DE	VS												
SDA	IIC bus data					IO		FV	AF	OS	QNIC				
SDA2	Serial bus data	DE	VS												
SFS	Sound filter switch		DC					FV							
SH1/2/C	Standard play heads	HA													
SSIF	Second sound interfrequency							FV			QNIC				
SWIN	Head switching pulse	HA	DE												
SYNC	Control track pulse	DE													
TAE	Tape end detection	DE													
TAS	Tape start detection	DE													
THIO	Threading motor in/out	DE													
TMO	Threading motor on/off	DE													
TMO1/2	Threading motor connection	DE													
TRIA/ALI	Tracking information audio / Audio level indication	DE							AF						
TRIV	Tracking information video	HA	DE												
VBS	Video input			VS	IO						OS				
VFR	Video from front connector				IO										
VFV	Video from frontend			VS	IO			FV		OS					
VIN1	Video input scart 1				IO										
VIN2	Video input scart 2				IO										
VISS	Control sync pulse inversion	DE													
VMOD	Video to the modulator				IO			FV							
VOUT	Video from OSD part				IO						OS				
VREC	Video record from I/O			VS		SE					OS				
VREF	Reference voltage					SE									
VS	Video from signal electronics			VS							OS				
W/R	Control track write/read	DE													
WTL	Wind tacho left	DE													
WTLD	Wind tacho left digital	DE													
WTR	Wind tacho right	DE													
WTRD	Wind tacho right digital	DE													

PS	Power Supply	page 3-8
HA	Head Amplifier	page 3-9
DE	Deck Electronics	page 3-10
DC	Display Control	page 3-11
VS	Video Signal Processing	page 3-12
AL	Audio Linear	page 3-12
IO	In/Out	page 3-13
SE	Secam Processing	page 3-14
FV	Frontend	page 3-15
AF	Audio Processing	page 3-16
OS	On Screen Display	page 3-17
QNIC	Nicam Board	page 3-18

Wiring Diagram

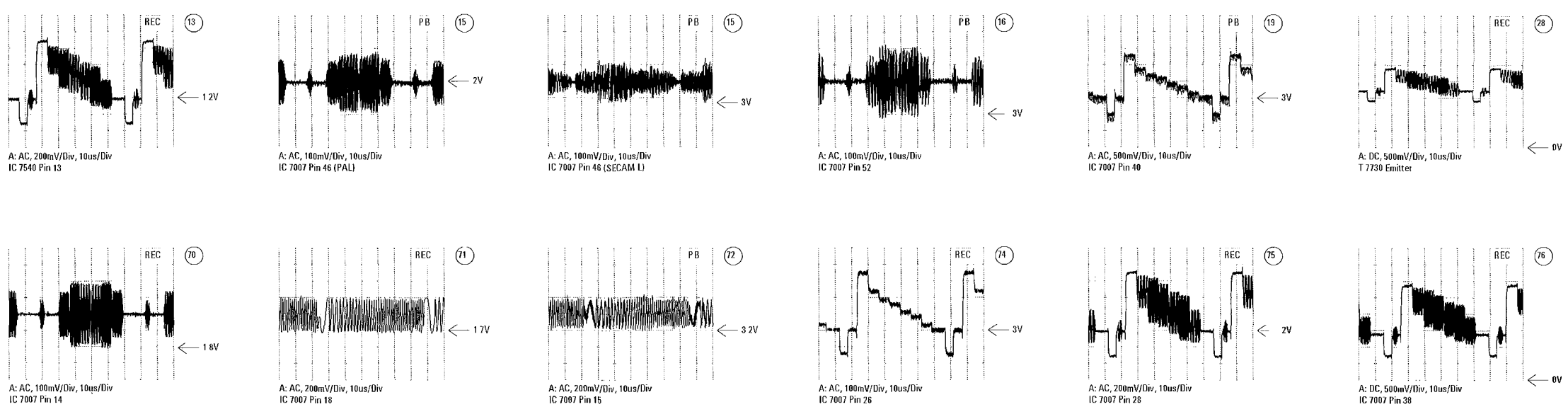


Block Diagram Video



→ RECORD
 ⇌ PLAYBACK
 ⇌ RECORD & PLAYBACK

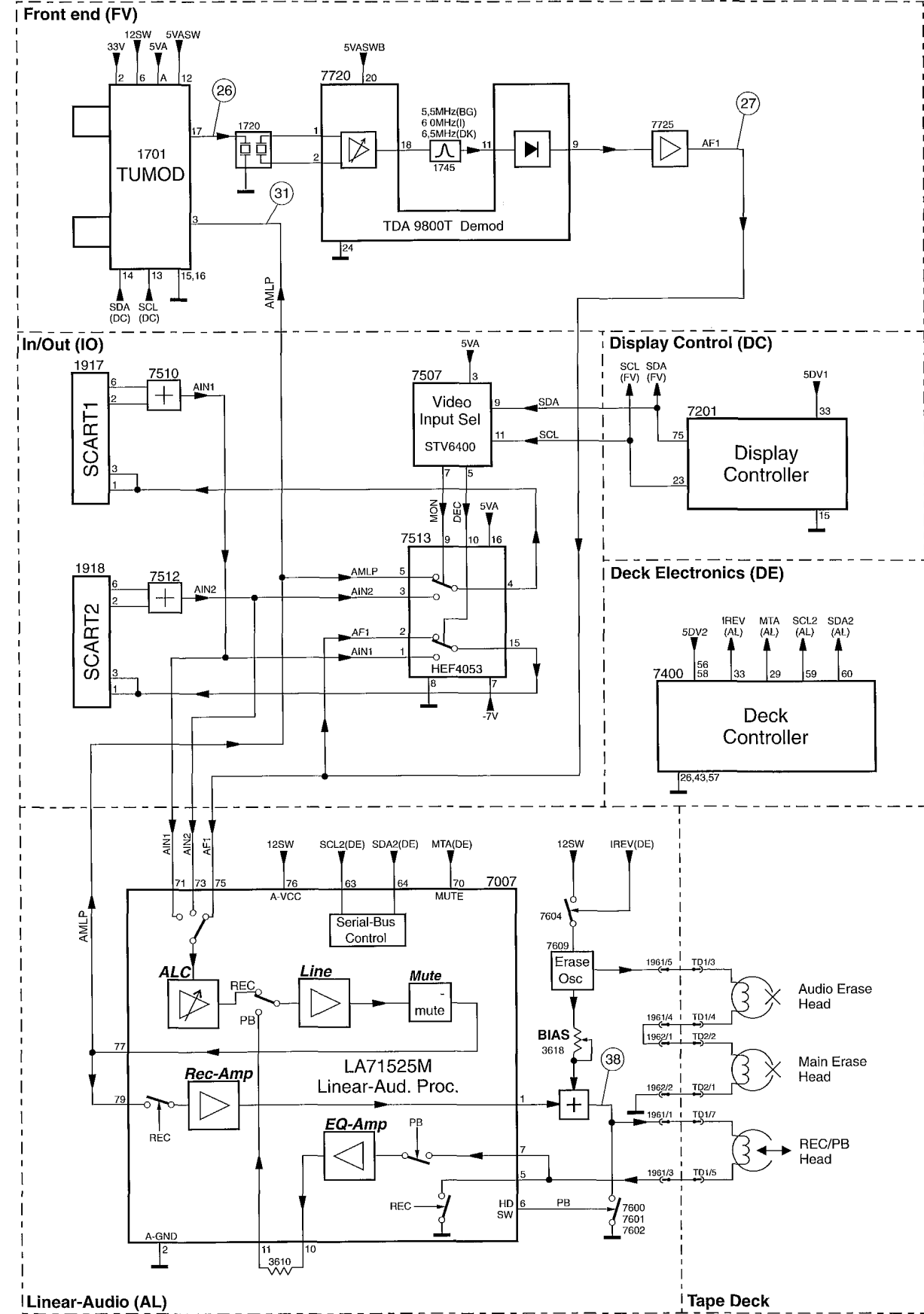
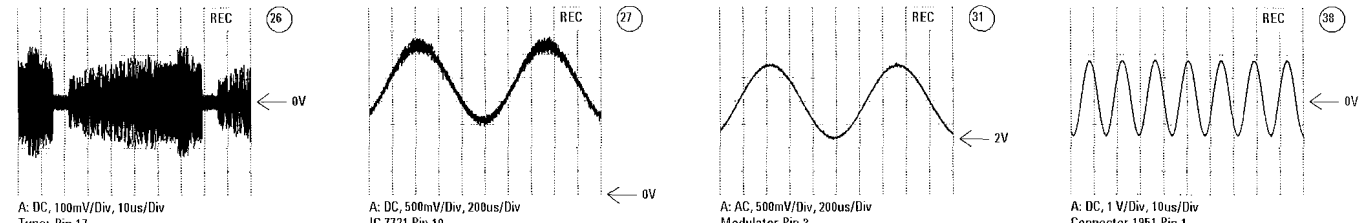
* OPTION



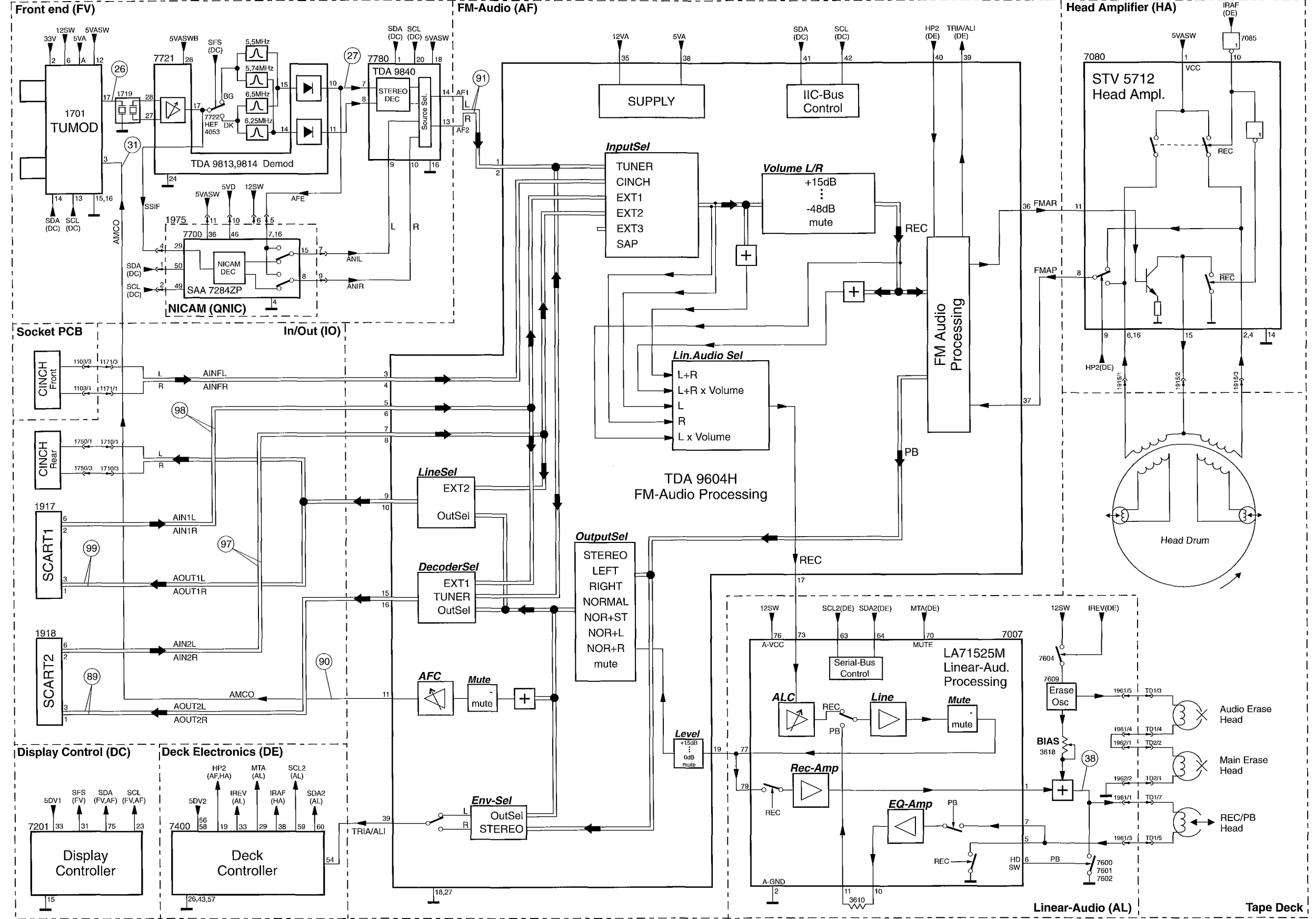
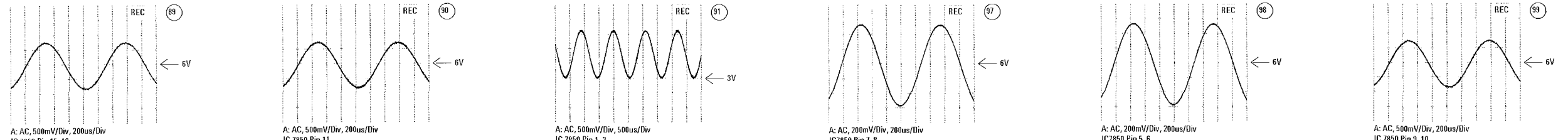
Interconnections:

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IO page 3-13	OSD page 3-17	PS page 3-8	QNIC page 3-18	VP/PD page 3-17	VS page 3-12	VS_S page 3-14

Block Diagram Audio Mono



Block Diagram Audio Stereo



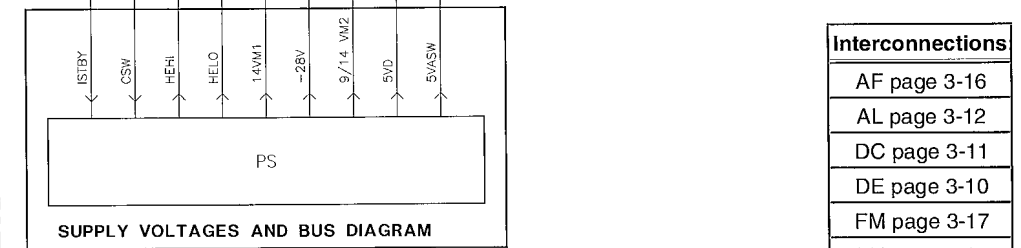
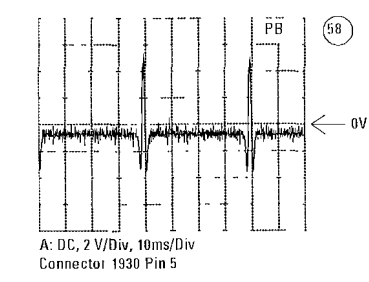
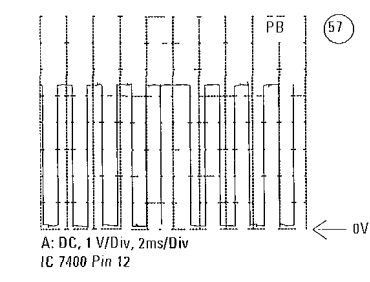
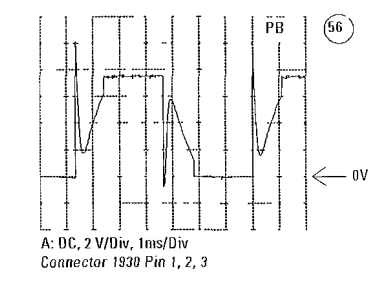
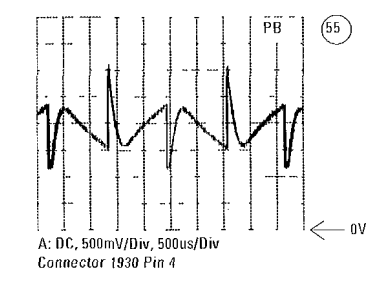
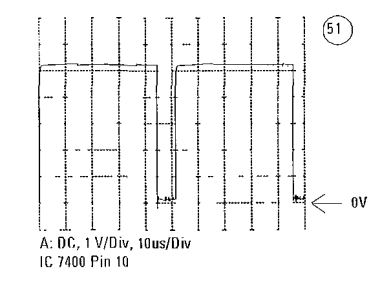
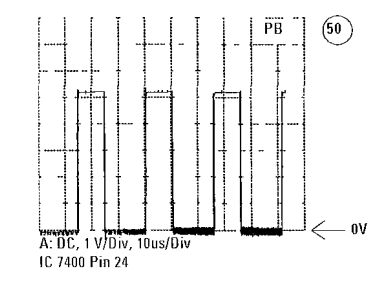
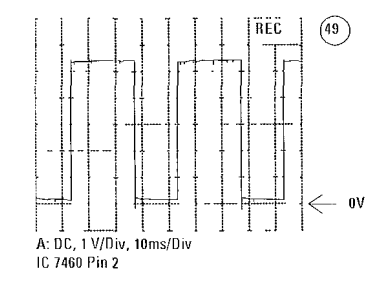
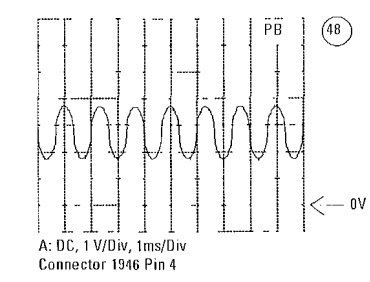
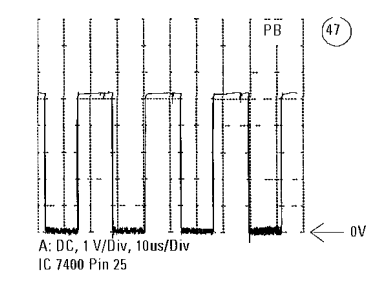
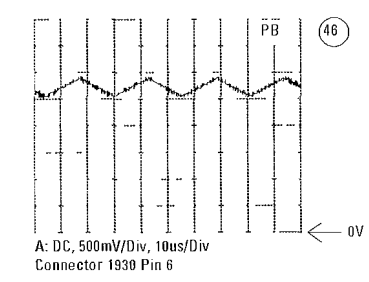
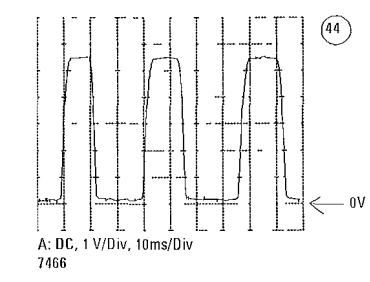
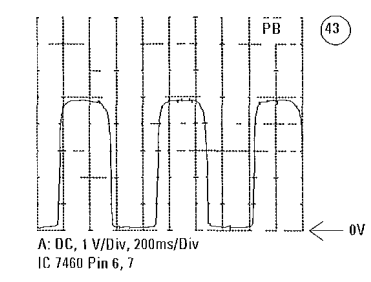
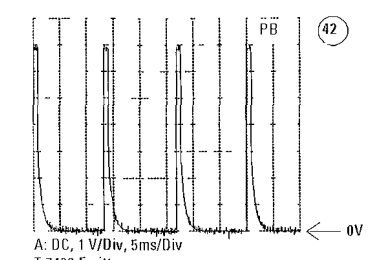
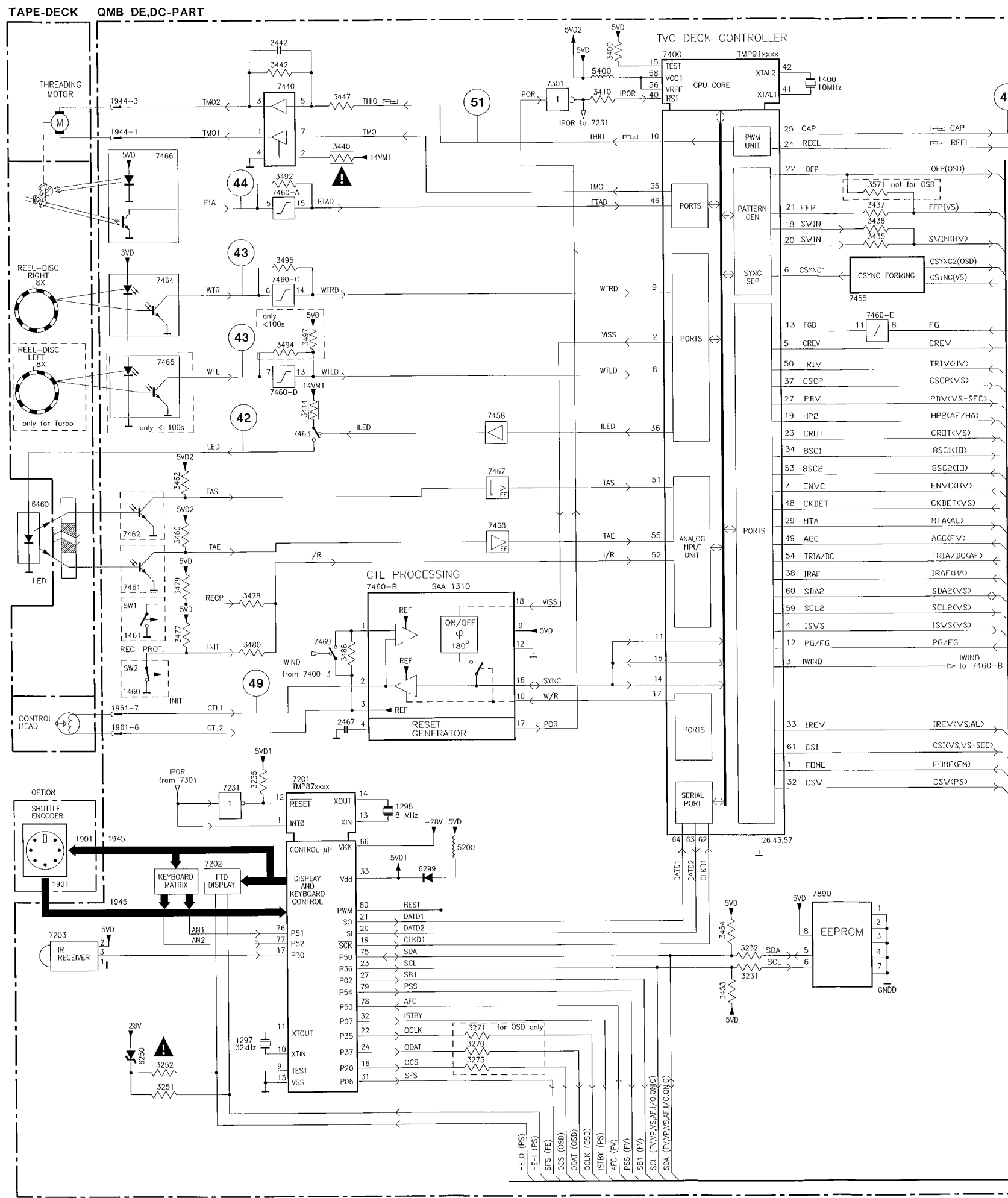
Interconnections:

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- DE page 3-10
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- FV page 3-15
- HA, HV page 3-9
- I/O page 3-13
- OSD page 3-17
- PS page 3-8
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- VP/PD page 3-17
- VS page 3-12
- VS_S page 3-14

Interconnections:

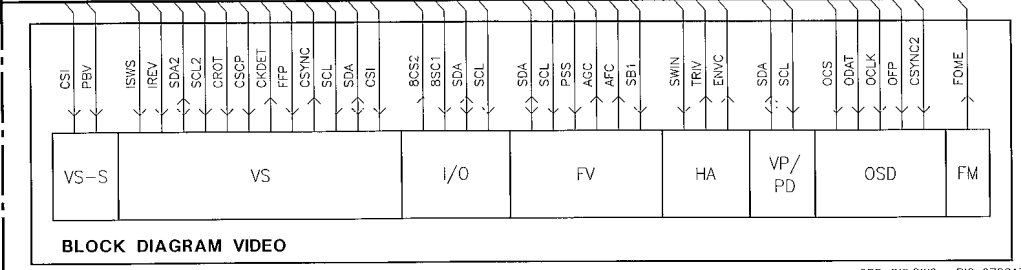
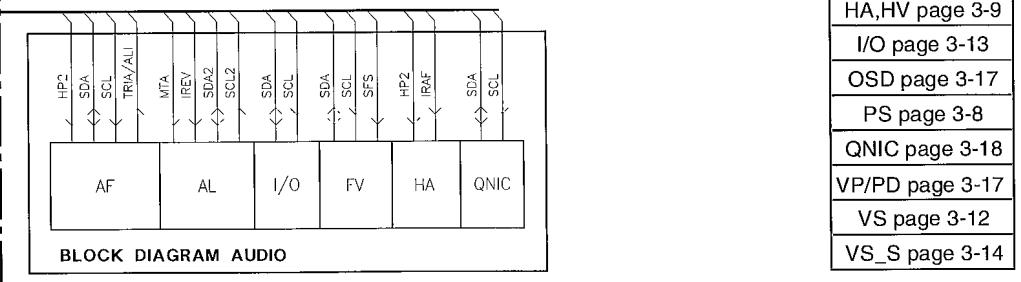
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Block Diagram Digital



Interconnections

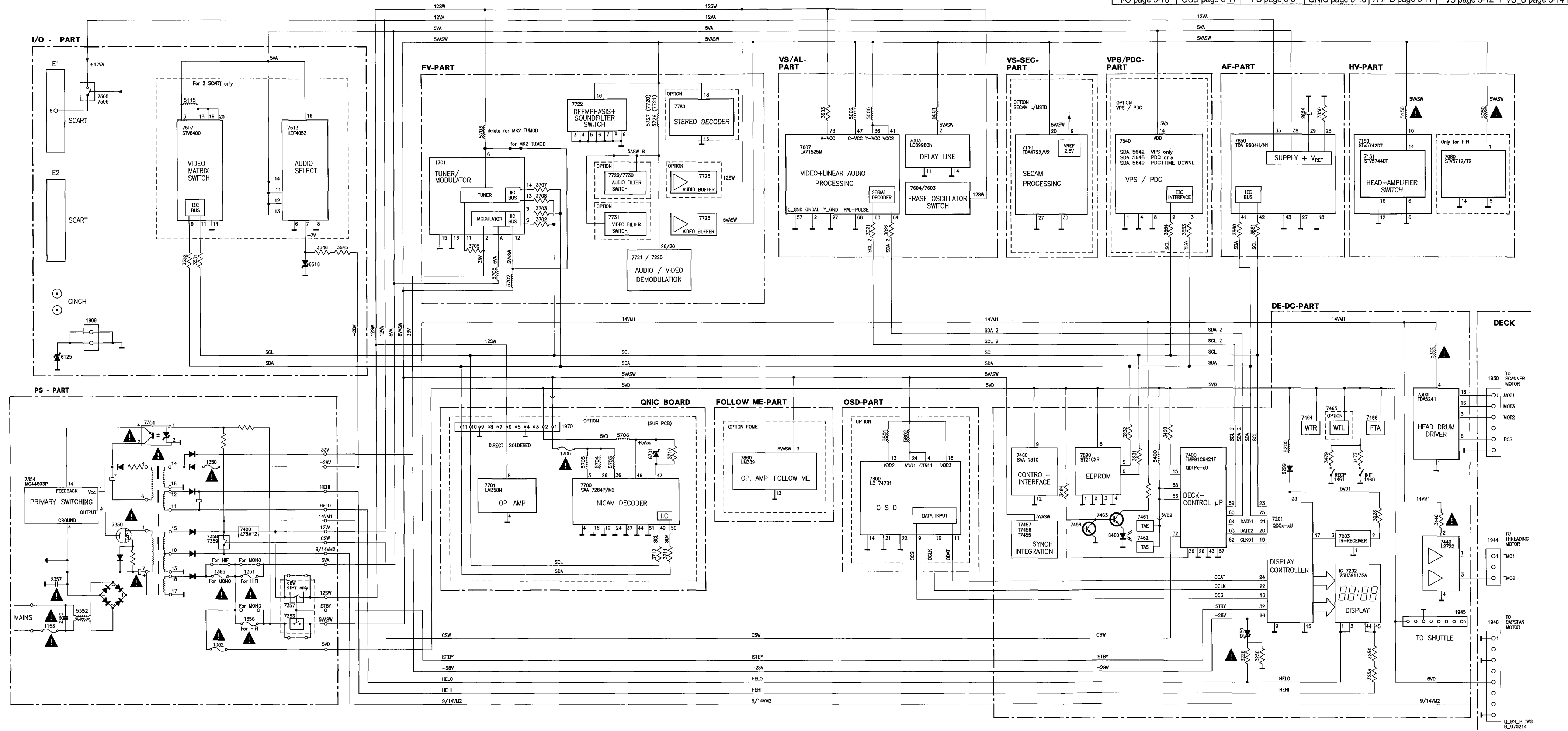
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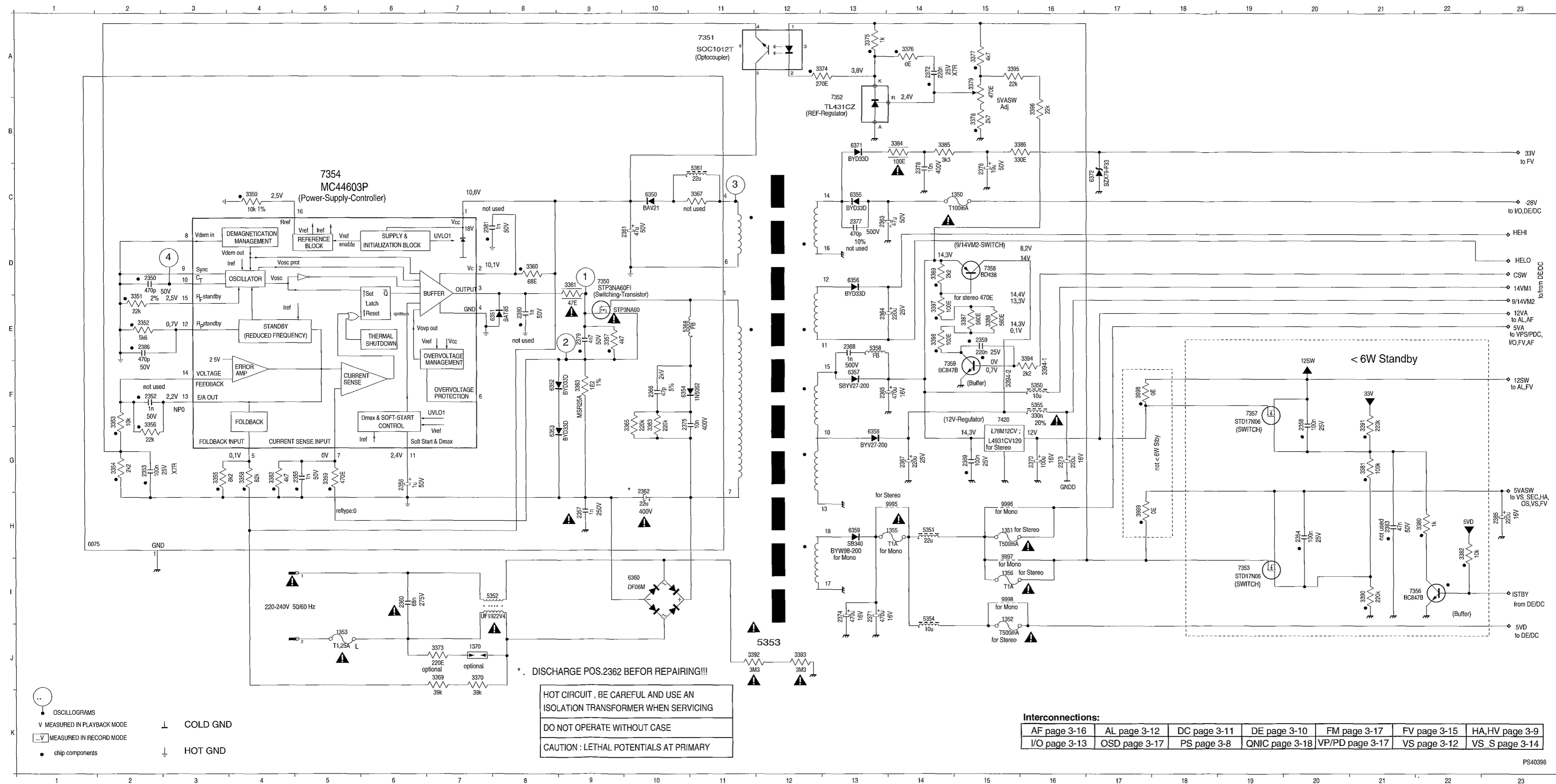
Supply Voltages and Bus Diagram

Interconnections:

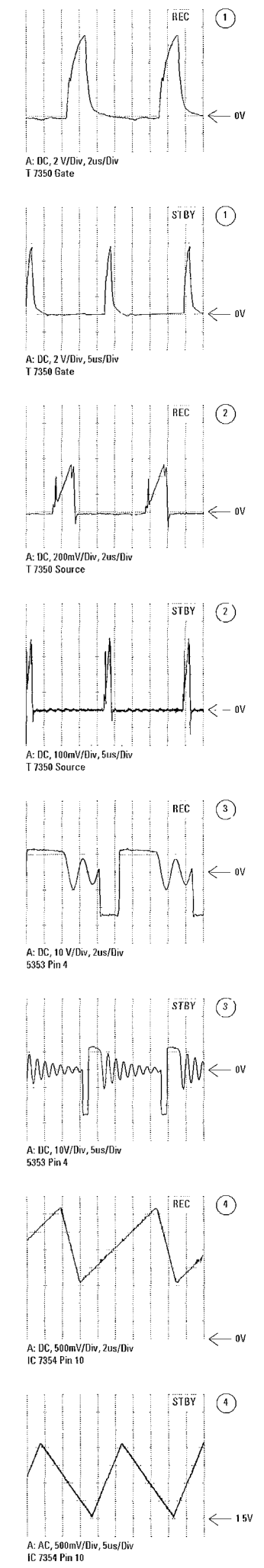
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I/O page 3-13	OSD page 3-17	PS page 3-8	QNIC page 3-18	VP/PD page 3-17	VS page 3-12	VS_S page 3-14



Power Supply (PS)



- 0075 H 1
- 1350 C15
- 1351 H15
- 1352 I15
- 1353 J5
- 1355 H14
- 1356 I15
- 1370 J7
- 2350 D 2
- 2352 F 2
- 2353 G 2
- 2354 H20
- 2355 G 5
- 2356 G 6
- 2357 H 9
- 2358 F20
- 2359 E15
- 2360 I 6
- 2361 D10
- 2362 H10
- 2363 C13
- 2364 E13
- 2365 F13
- 2366 F10
- 2367 G14
- 2368 E13
- 2369 G15
- 2370 G16
- 2371 H13
- 2372 A14
- 2373 G16
- 2374 I13
- 2375 F10
- 2376 C15
- 2377 C13
- 2378 C14
- 2379 E 9
- 2380 E 8
- 2381 C7
- 2383 H21
- 2385 H23
- 2386 E 2
- 3350 C 4
- 3351 E 2
- 3352 E 2
- 3353 F 2
- 3354 G 2
- 3355 G 2
- 3356 F 2
- 3357 E 9
- 3358 G 4
- 3359 G 5
- 3360 D 8
- 3361 D 9
- 3362 G 4
- 3363 F 9
- 3365 F10
- 3367 C11
- 3369 J 7
- 3370 J 7
- 3373 J 7
- 3374 A13
- 3375 A13
- 3376 A14
- 3377 A15
- 3378 H22
- 3383 F10
- 3384 B14
- 3385 B14
- 3386 B16
- 3387 E15
- 3388 E15
- 3389 D14
- 3390 I21
- 3391 F21
- 3392 J11
- 3393 J12
- 3394 E16
- 3395 A15
- 3396 B16
- 3397 E14
- 3398 E14
- 3399 F17
- 3399 H17
- 5350 F16
- 5351 H14
- 5352 I 8
- 5353 J12
- 5354 I14
- 5355 F16
- 5358 E13
- 5361 C11
- 5368 E10
- 6350 C10
- 6351 E 8
- 6352 F 8
- 6353 G 8
- 6354 F10
- 6355 C13
- 6356 D13
- 6357 F13
- 6358 G13
- 6359 H13
- 6360 I10
- 6371 B13
- 6372 C17
- 7350 D 9
- 7351 A11
- 7352 B13
- 7353 I19
- 7354 C 5



*** DISCHARGE POS.2362 BEFORE REPAIRING!!!**

HOT CIRCUIT , BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING

DO NOT OPERATE WITHOUT CASE

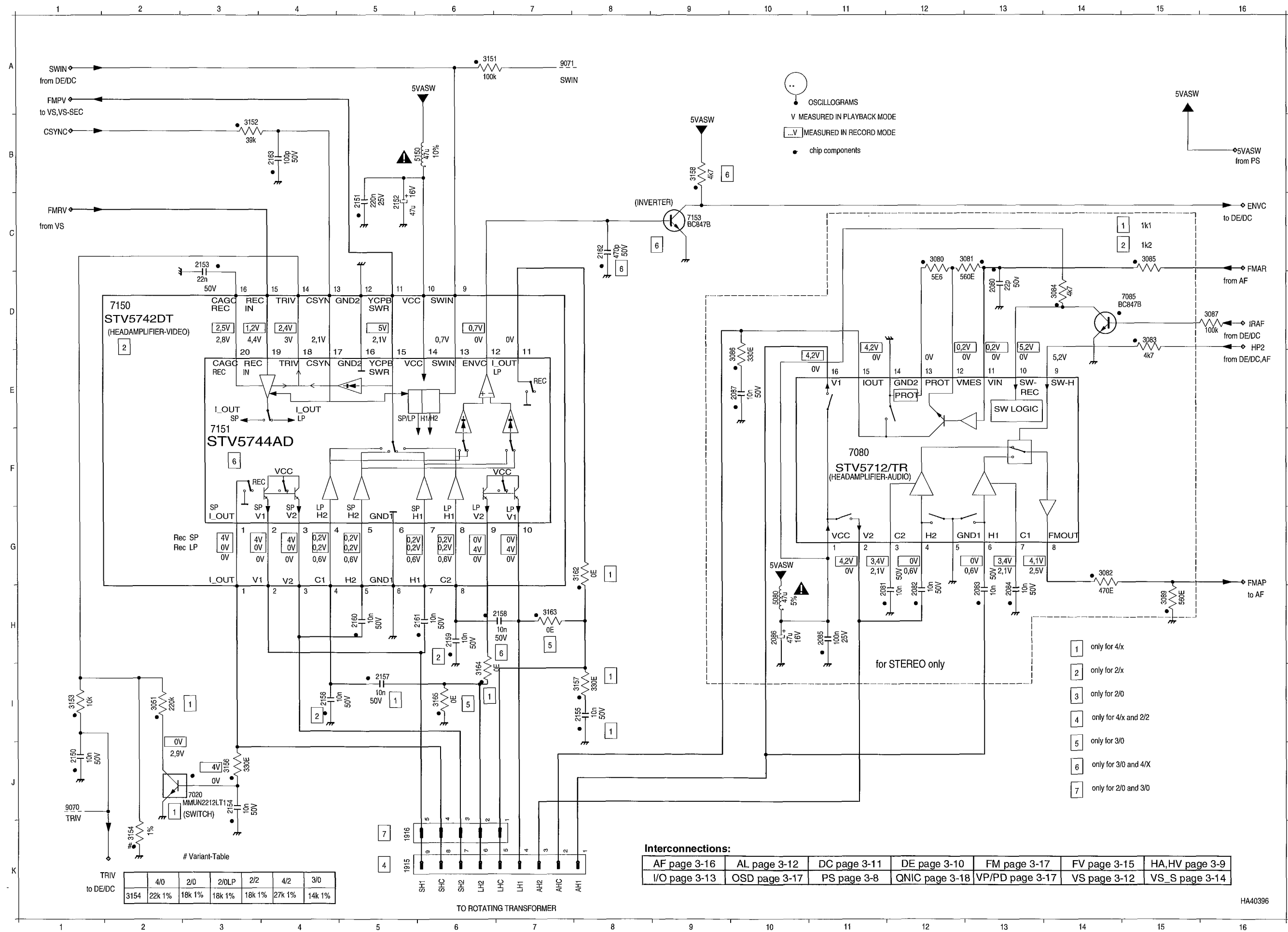
CAUTION : LETHAL POTENTIALS AT PRIMARY

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- OSCILLOGRAMS
- V MEASURED IN PLAYBACK MODE
- ⌊ MEASURED IN RECORD MODE
- chip components
- ⊥ COLD GND
- ⌋ HOT GND

Head Amplifier (HA)



- 1915 K5
- 1916 K5
- 2080 D13
- 2081 H11
- 2082 H12
- 2083 H13
- 2084 H13
- 2085 H11
- 2086 H10
- 2087 E10
- 2150 J1
- 2151 C5
- 2152 C5
- 2153 C3
- 2154 J3
- 2155 I8
- 2156 I4
- 2157 I5
- 2158 H7
- 2159 H6
- 2160 H5
- 2161 H6
- 2162 C8
- 2163 B4
- 3051 I2
- 3080 C12
- 3081 C13
- 3082 G14
- 3083 D15
- 3084 D14
- 3085 C15
- 3086 E10
- 3087 D16
- 3089 H15
- 3151 A6
- 3152 B3
- 3153 I1
- 3154 K2
- 3156 J3
- 3157 I8
- 3158 B9
- 3162 G8
- 3163 H7
- 3164 I6
- 3165 I6
- 5080 H10
- 5150 B6
- 7020 J3
- 7080 F11
- 7085 D15
- 7150 D2
- 7151 F2
- 7153 C9
- 9070 J1
- 9071 A7

Variant-Table

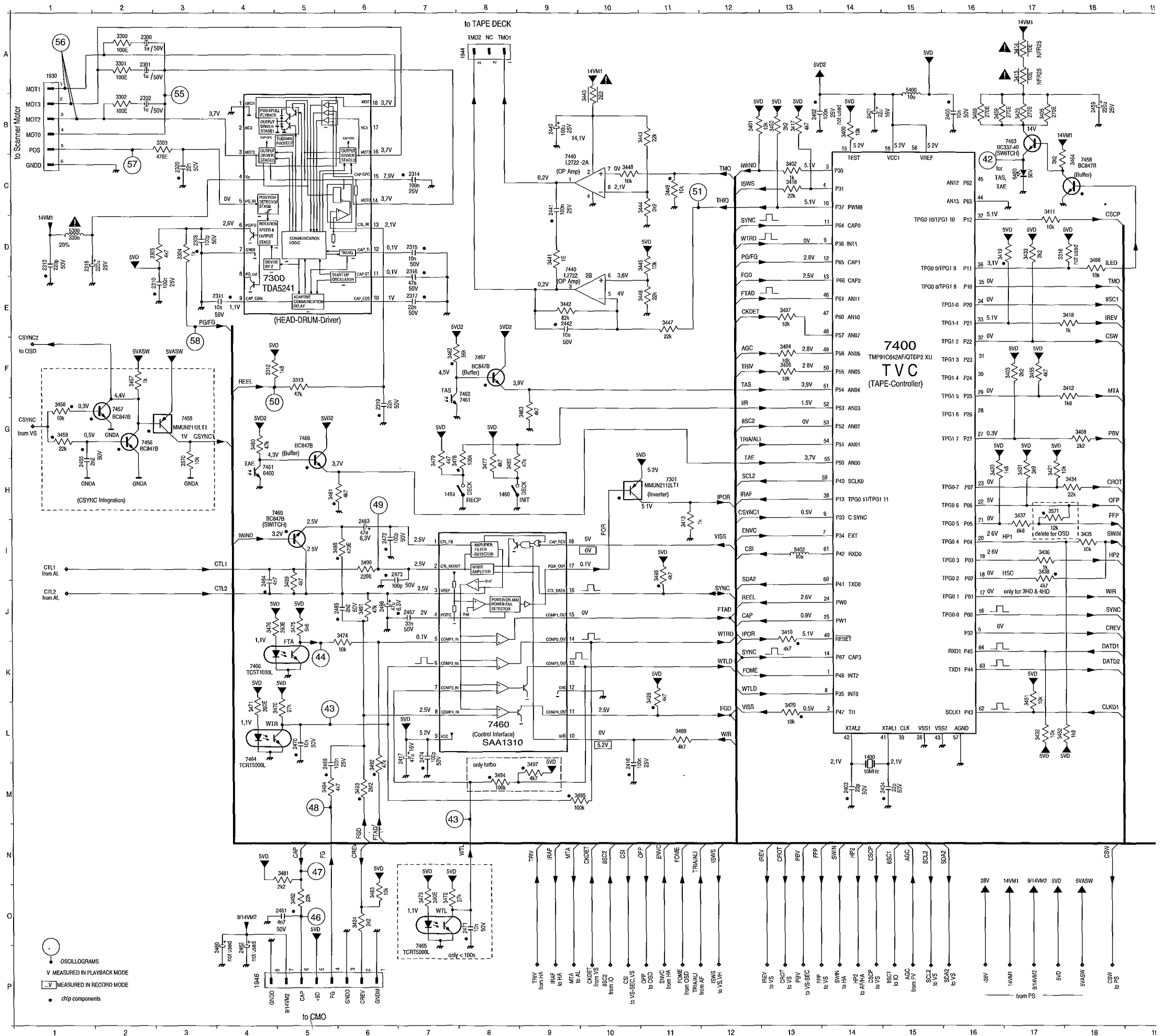
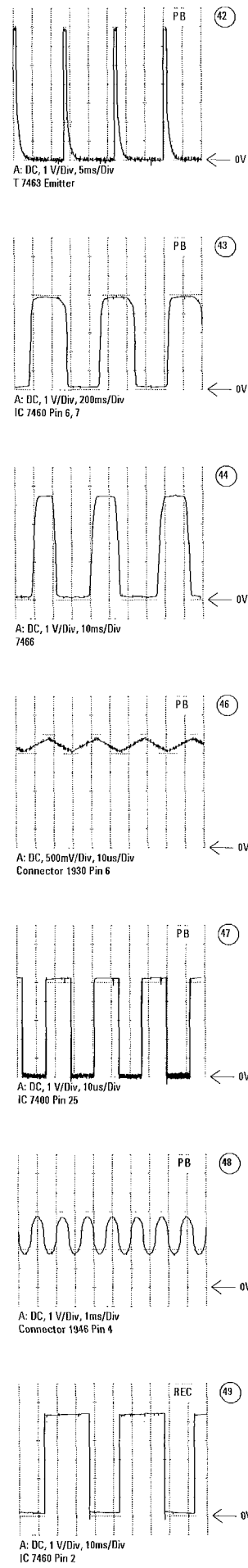
TRIV to DE/DC	3154	22k 1%	18k 1%	18k 1%	18k 1%	27k 1%	14k 1%
		4/0	2/0	2/0LP	2/2	4/2	3/0

Interconnections:

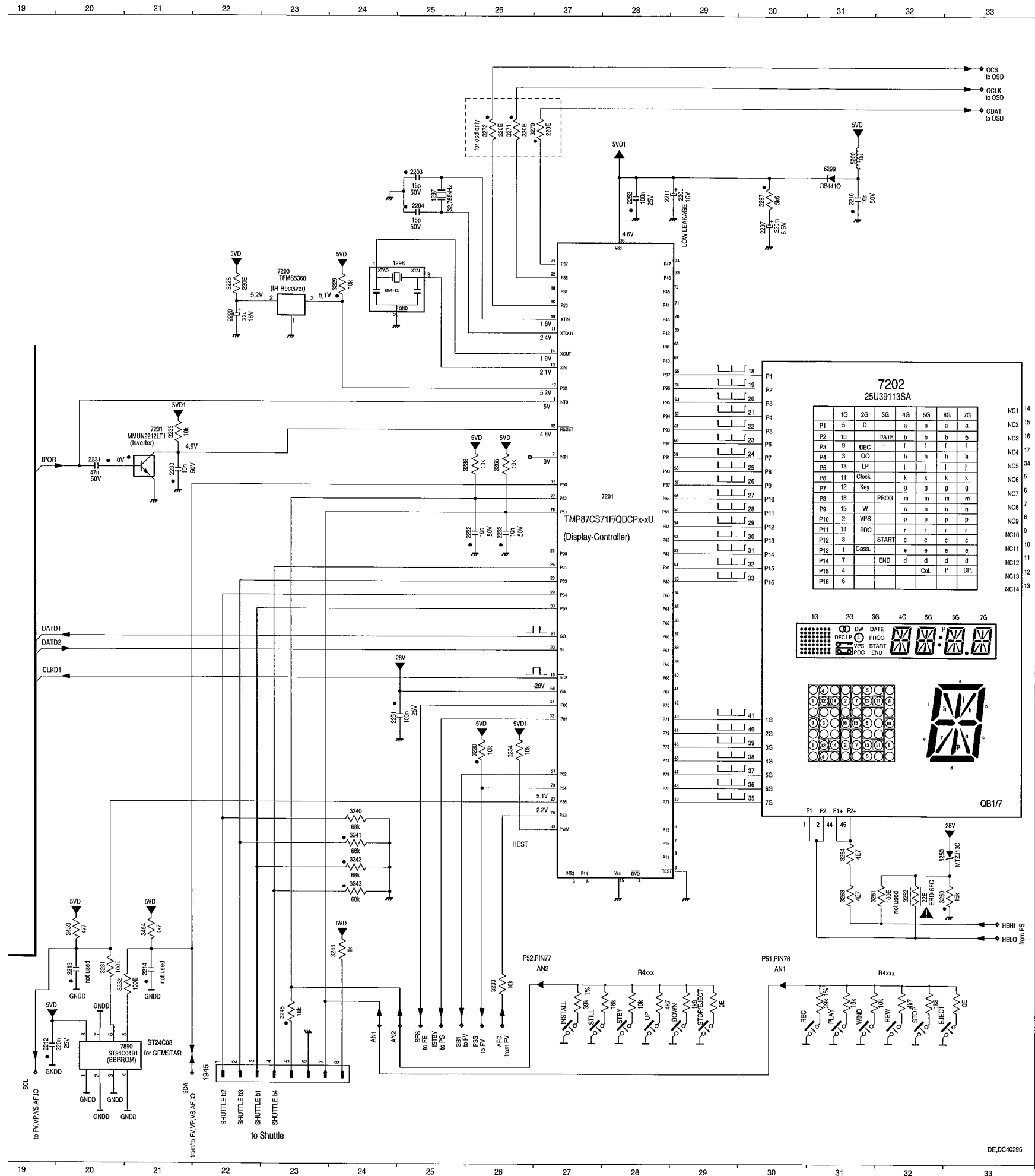
AF page 3-16	AL page 3-12	DC page 3-11	DE page 3-10	FM page 3-17	FV page 3-15	HA, HV page 3-9
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HA40396

Deck Electronics (DE)



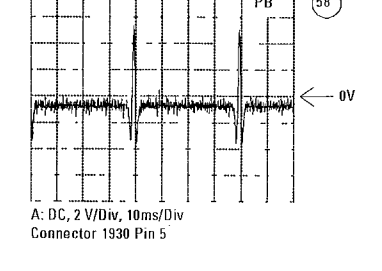
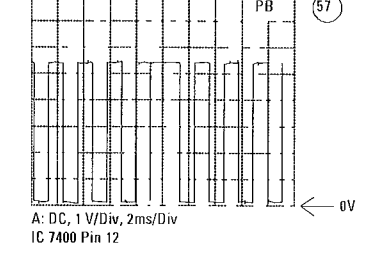
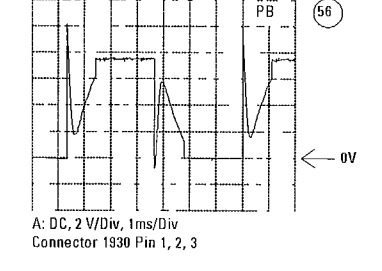
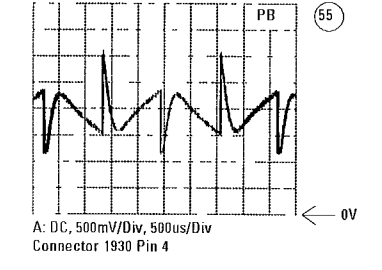
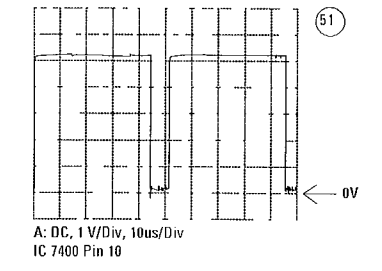
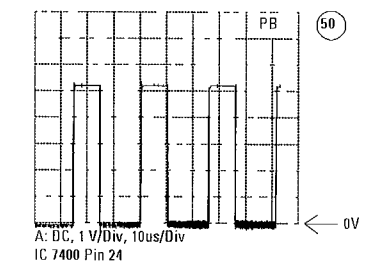
Display Control (DC)



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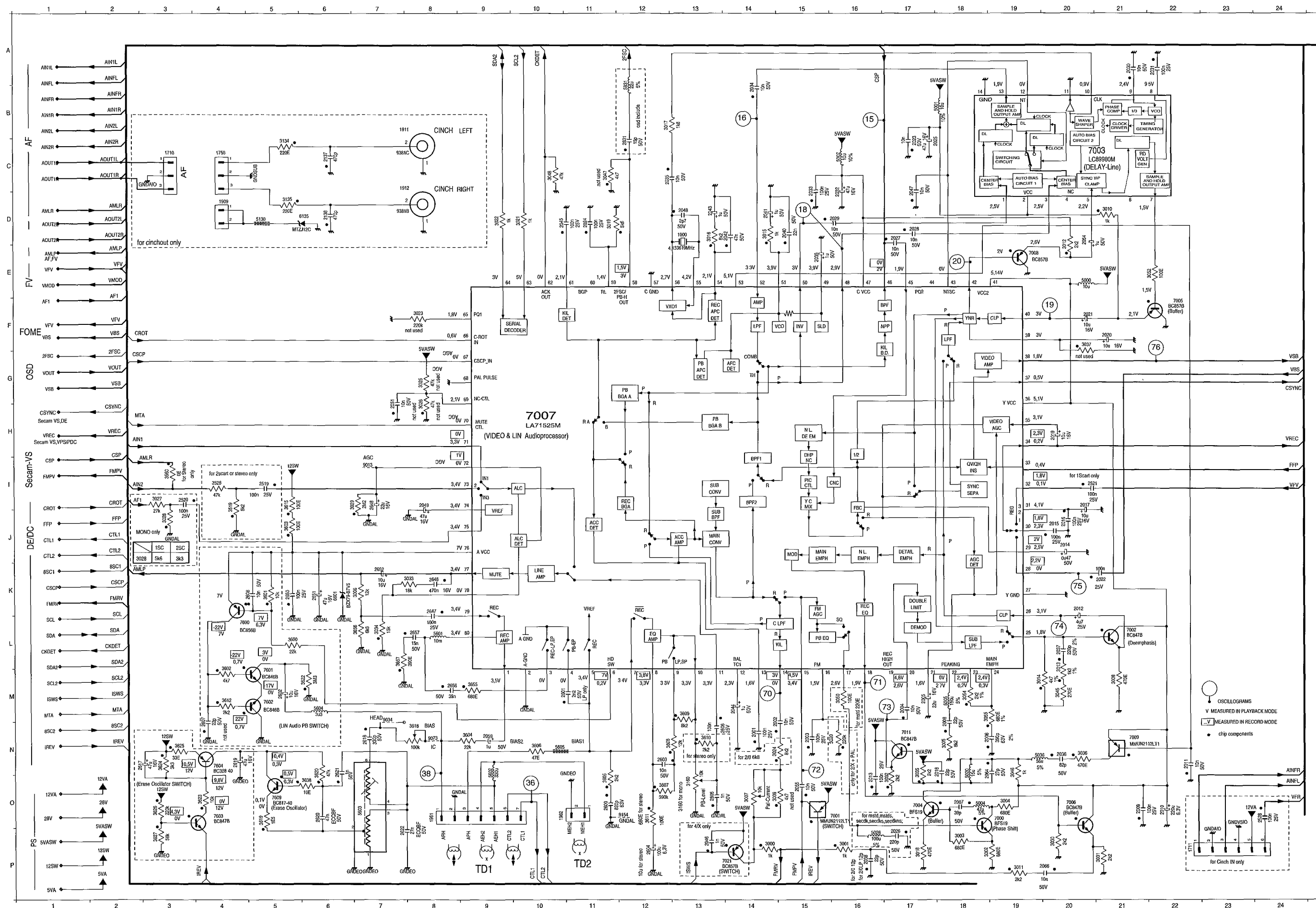
- 1297 C25
- 1298 D25
- 1400 L14
- 1460 H 8
- 1461 H 8
- 1930 A 1
- 1944 A 8
- 1945 Q22
- 1946 P 4
- 2203 B25
- 2204 C25
- 2210 C31
- 2211 C29
- 2212 Q20
- 2213 N20
- 2214 N21
- 2220 D22
- 2230 Q21
- 2231 Q20
- 2232 H26
- 2233 H26
- 2251 J25
- 2252 C28
- 2297 C30
- 2300 A 3
- 2301 A 3
- 2302 B 3
- 2308 D 3
- 2310 E 3
- 2311 E 4
- 2313 D 1
- 2314 C 7
- 2315 D 7
- 2316 D 7
- 2317 E 7
- 2318 D 2
- 2319 G 6
- 2320 C 3
- 2400 B16
- 2401 B15
- 2402 B14
- 2403 M14
- 2404 M15
- 2416 L11
- 2417 L 7
- 2440 B 9
- 2441 C 9
- 2442 E10
- 2455 G 2
- 2459 B18
- 2460 O 4
- 2461 O 5
- 2462 O 4
- 2463 H 6
- 2464 L 5
- 2465 L 6
- 2466 J 6
- 2467 J 7
- 2468 L 6
- 2470 L 5
- 2471 O 9
- 2472 L 7
- 2473 L 7
- 2474 L 7
- 3228 D22
- 3229 D24
- 3230 K26
- 3231 N20
- 3232 N21
- 3233 N26
- 3234 K26
- 3235 F21
- 3238 G26
- 3240 L24
- 3241 L24
- 3242 L24
- 3243 M24
- 3244 N24
- 3245 O23
- 3250 M33
- 3251 M32
- 3252 M32
- 3253 M31
- 3254 L31
- 3265 G26
- 3270 B27
- 3271 B26
- 3273 B26
- 3297 C30
- 3300 A 2
- 3301 A 2
- 3302 B 2
- 3303 B 3
- 3304 D 3
- 3305 D 3
- 3312 F 5
- 3313 F 5
- 3316 D18
- 3400 B14
- 3401 B13
- 3402 C13
- 3403 F17
- 3404 F13
- 3405 B17
- 3406 F13
- 3407 E13
- 3408 G18
- 3410 J13
- 3411 C17
- 3412 F18
- 3413 H11
- 3414 A17
- 3415 A17
- 3416 C13
- 3417 B13
- 3418 E18
- 3419 D17
- 3420 K13
- 3421 H18
- 3423 B17
- 3424 O 6
- 3430 H17
- 3431 H17
- 3432 L17
- 3433 D17
- 3434 H18
- 3435 H8
- 3436 H17
- 3437 H17
- 3438 H17
- 3440 A10
- 3441 D 9
- 3442 E 9
- 3443 B11
- 3444 C11
- 3445 D11
- 3446 E11
- 3447 E11
- 3448 C11
- 3449 C11



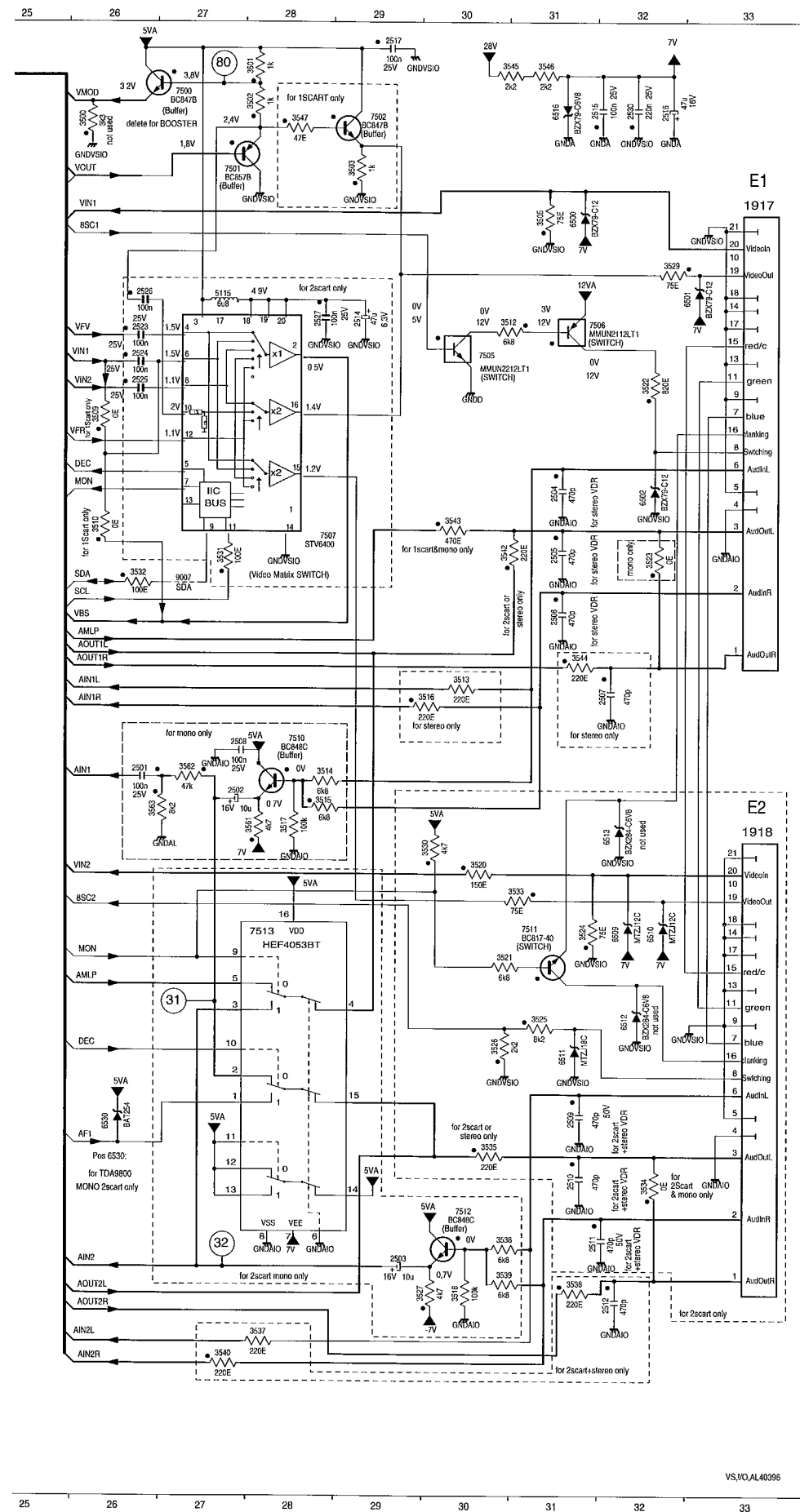
Keyfunction	AN2	4xxx	Voltage pin77	P52
STOP/EJECT		0E	0V	
DOWN		1k8	0.808V	
UP		4k7	1.695V	
STBY		10k	2.65V	
STILL		19k	3.41V	
INSTALL		39k	4.22V	

Keyfunction	AN1	4xxx	Voltage pin76	P51
EJECT		0E	0V	
STOP		1k8	0.808V	
REWIND		4k7	1.695V	
WIND		10k	2.65V	
PLAY		19k	3.41V	
RECORD		39k	4.22V	

Video Signal Processing (VS), Audio Linear (AL)



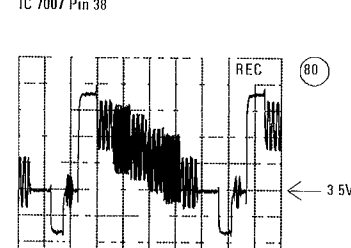
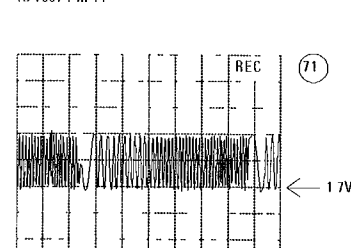
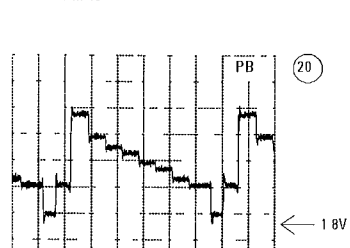
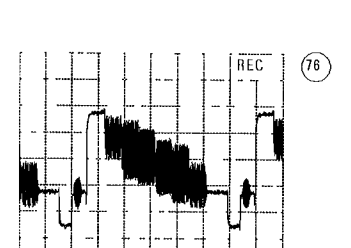
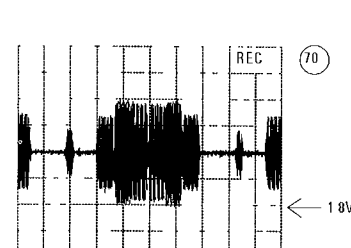
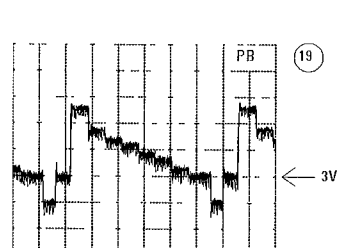
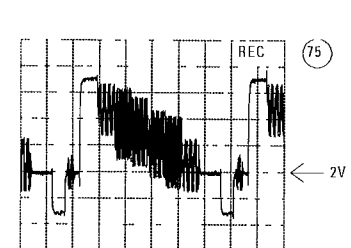
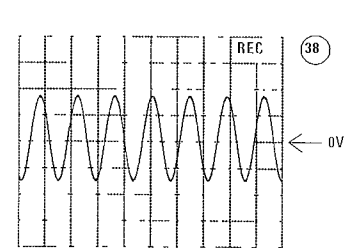
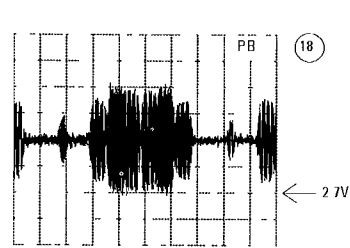
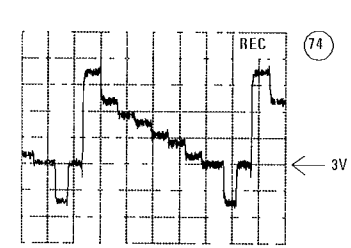
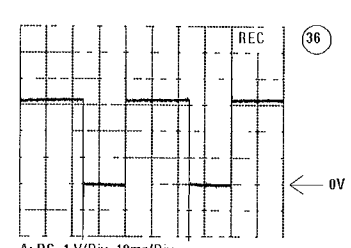
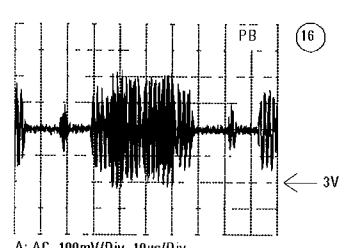
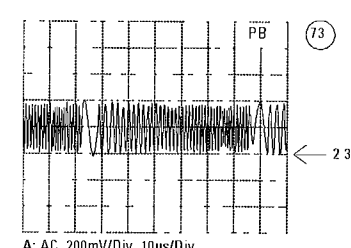
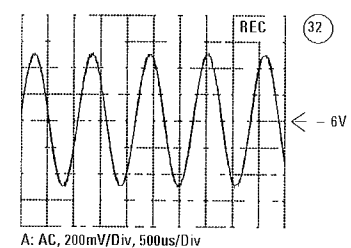
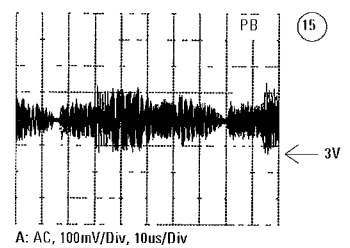
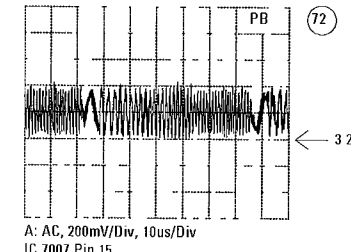
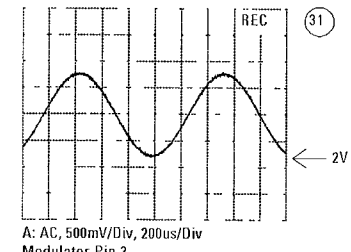
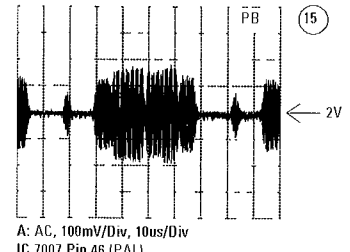
In/Out (I/O)



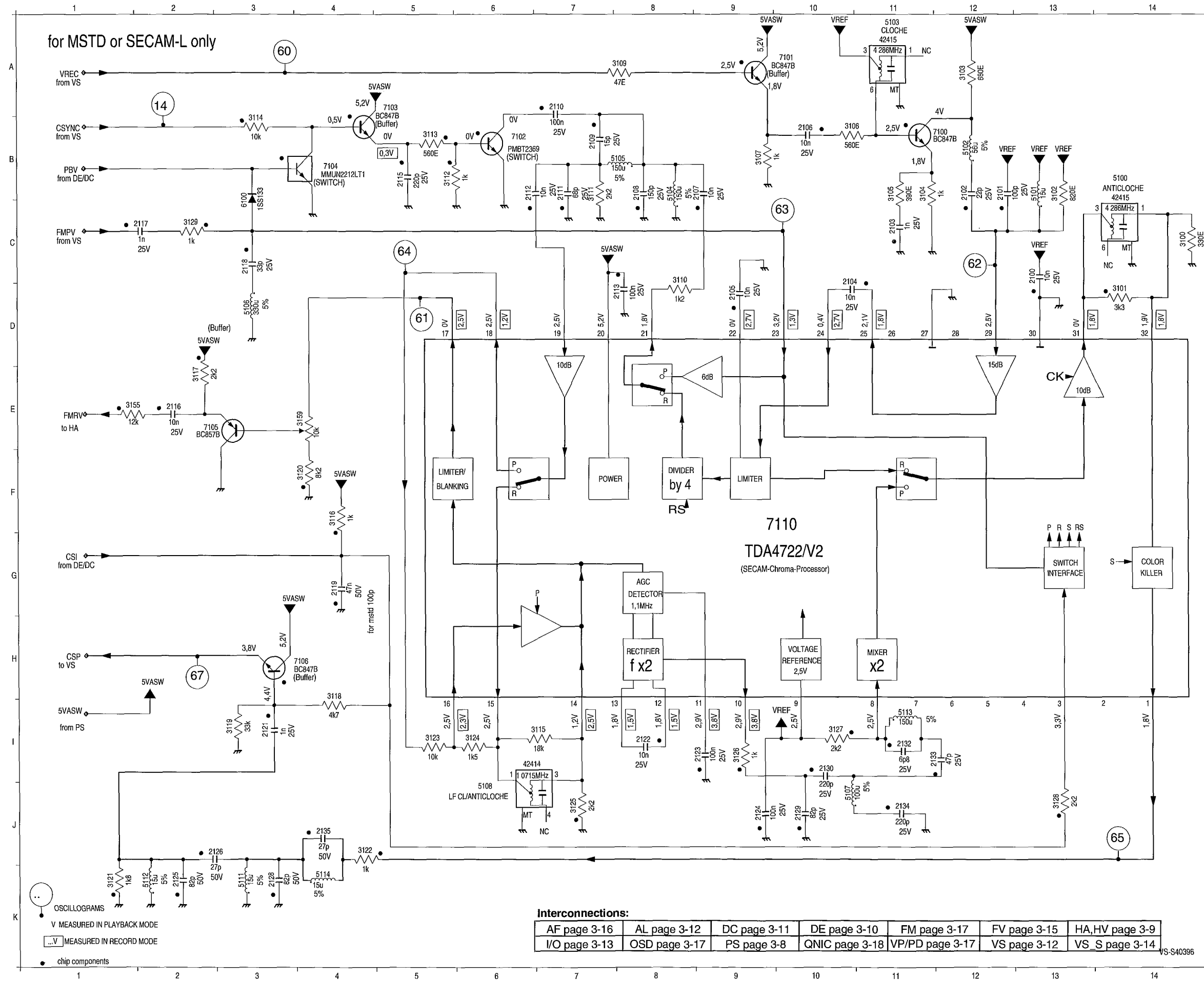
1000 D13	3022 D 9	7500 A27
1710 C 3	3023 F 8	7501 B27
1711 P22	3024 N14	7502 A29
1750 C 4	3025 G 8	7505 D30
1909 D 4	3026 G 8	7506 D31
1911 B 8	3027 L 3	7507 F29
1912 C 8	3028 J 3	7510 H28
1917 B33	3029 J 7	7511 J31
1918 I33	3030 P20	7512 N30
1961 O 8	3031 P21	7513 J28
1962 O10	3032 O17	7600 L 5
2001 N14	3033 K 8	7601 M 5
2002 M14	3034 L 7	7602 M 5
2003 N15	3035 N17	7603 O 4
2004 M17	3036 N20	7604 N 4
2005 M17	3037 F20	7609 O 5
2006 N18	3045 M20	9007 F27
2007 O18	3046 N19	9013 L 7
2008 M18	3047 C11	9034 M 7
2009 O21	3048 C10	9073 N 8
2010 O22	3050 M16	9154 O12
2011 N22	3052 E22	
2012 K20	3054 M18	
2013 O16	3055 M18	
2014 O20	3134 C 5	
2015 J20	3135 D 5	
2016 J20	3160 O13	
2017 J20	3500 A26	
2018 N18	3501 N18	
2019 H20	3502 A28	
2020 F21	3503 B29	
2021 F20	3505 B31	
2022 K21	3506 C26	
2023 C17	3510 F26	
2024 D11	3512 D30	
2025 C17	3513 H30	
2026 P17	3514 H28	
2027 D17	3515 H28	
2028 D17	3516 H30	
2029 D16	3517 I28	
2030 A21	3518 C30	
2031 A22	3519 I 4	
2032 C16	3520 J30	
2033 C15	3521 K30	
2034 B14	3522 D32	
2035 C12	3523 F32	
2036 N20	3524 J31	
2037 L20	3525 K31	
2038 P16	3526 L30	
2039 E16	3527 O30	
2040 D15	3528 I 4	
2041 D14	3529 C32	
2042 D14	3530 I30	
2043 D13	3531 F27	
2044 M14	3532 F26	
2045 D10	3533 J31	
2046 P13	3534 M32	
2047 C17	3535 M30	
2048 D13	3536 N31	
2049 I 8	3537 O28	
2051 G 7	3538 N30	
2052 N9	3539 D20	
2055 O15	3540 O27	
2059 N 9	3542 F30	
2064 N18	3543 F30	
2066 P20	3544 G31	
2137 C 6	3545 A31	
2138 D 6	3546 A31	
2501 P26	3547 A28	
2502 I27	3550 I 3	
2503 N29	3551 I28	
2504 E31	3552 I27	
2505 F31	3553 E28	
2506 G31	3554 L 5	
2507 H32	3555 K 5	
2508 H27	3556 M 4	
2509 M31	3557 J 5	
2510 M31	3558 N 9	
2511 N31	3559 O11	
2512 O32	3560 N10	
2514 C29	3561 O12	
2515 A31	3562 N12	
2516 A32	3563 M13	
2517 A29	3564 N13	
2519 I 5	3565 O12	
2520 I 3	3566 L 4	
2521 I20	3567 L 5	
2523 D26	3568 N 8	
2524 D26	3569 O 5	
2525 D26	3570 N 6	
2526 C26	3572 M 6	
2527 C28	3573 O 4	
2528 O24	3574 N 3	
2530 A32	3575 N 3	
2600 O11	3576 O 3	
2601 M10	3577 P 3	
2602 M 5	3578 O 6	
2603 N12	3579 M 9	
2604 P12	3580 L 7	
2605 O13	3581 L 7	
2606 N13	5000 E20	
2607 M 4	5001 D18	
2608 K 5	5002 B16	
2617 N 2	5004 O18	
2618 N 7	5005 M18	
2619 N 4	5020 N18	
2620 O 6	5021 P16	
2621 N 6	5036 N19	
2622 P 7	5115 C27	
2646 K 8	5130 D 5	
2647 I 8	5201 L 8	
2648 I 7	5602 N 9	
2650 K 5	5603 O 7	
2651 K 6	5604 M 6	
2652 K 7	5605 N10	
2656 M 8	5831 A12	
2657 L 8	6135 D 6	
2831 C12	6500 B31	
3016 D13	6501 C32	
3001 P16	6502 F32	
3002 P18	6509 J32	
3003 P18	6510 J32	
3004 O19	6511 L31	
3005 N18	6512 K32	
3006 K 7	6513 I32	
3007 O14	6516 A31	
3011 P19	6508 M21	
3012 D20	7000 L21	
3013 L20	7003 C20	
3014 M19	7004 O17	
3015 D14	7005 F22	
3016 D13	7006 O20	
3017 B12	7007 H10	
3018 P17	7008 E19	
3019 D11	7009 N21	
3020 N15	7011 N17	
3021 D10	7021 P15	

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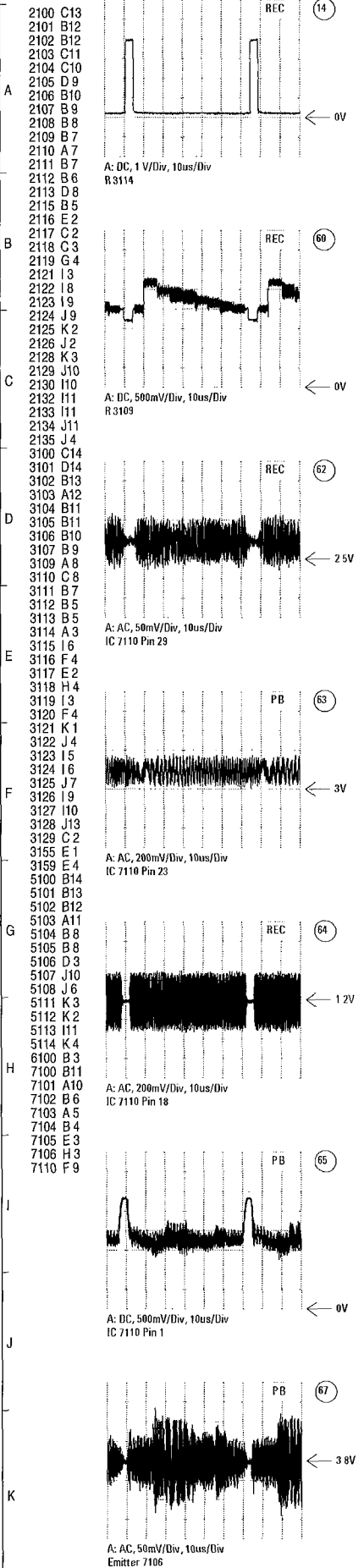


Video Signal Processing Secam (VS_S)

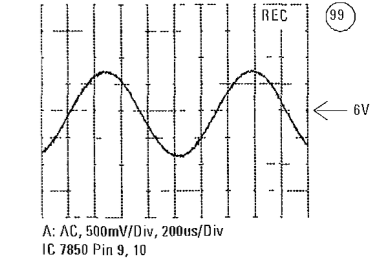
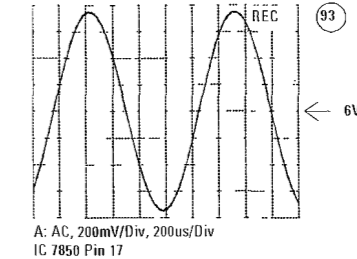
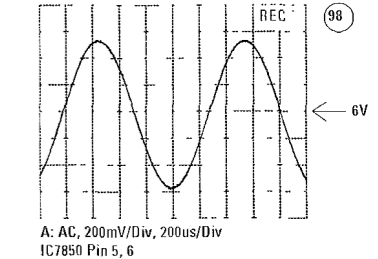
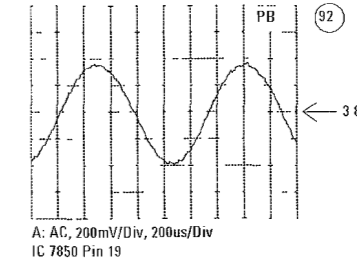
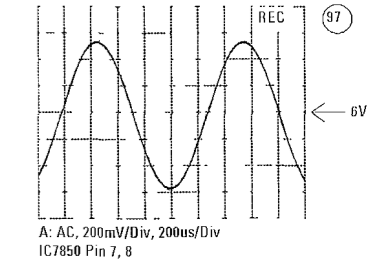
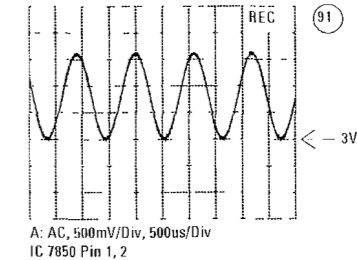
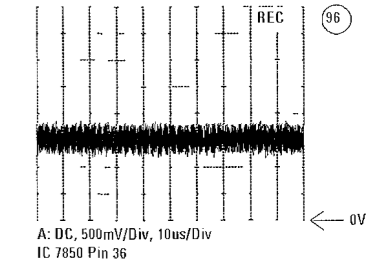
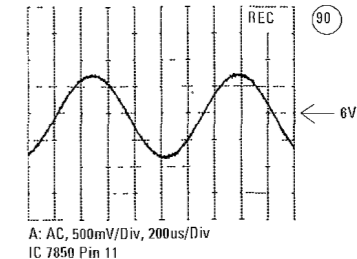
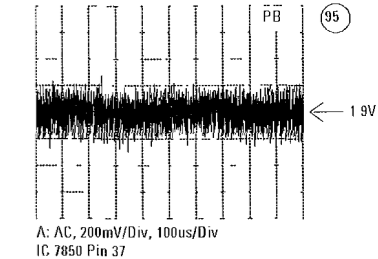
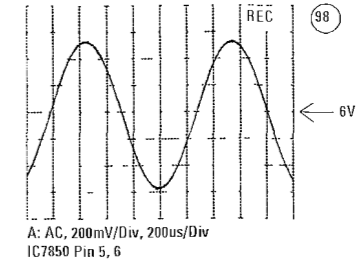
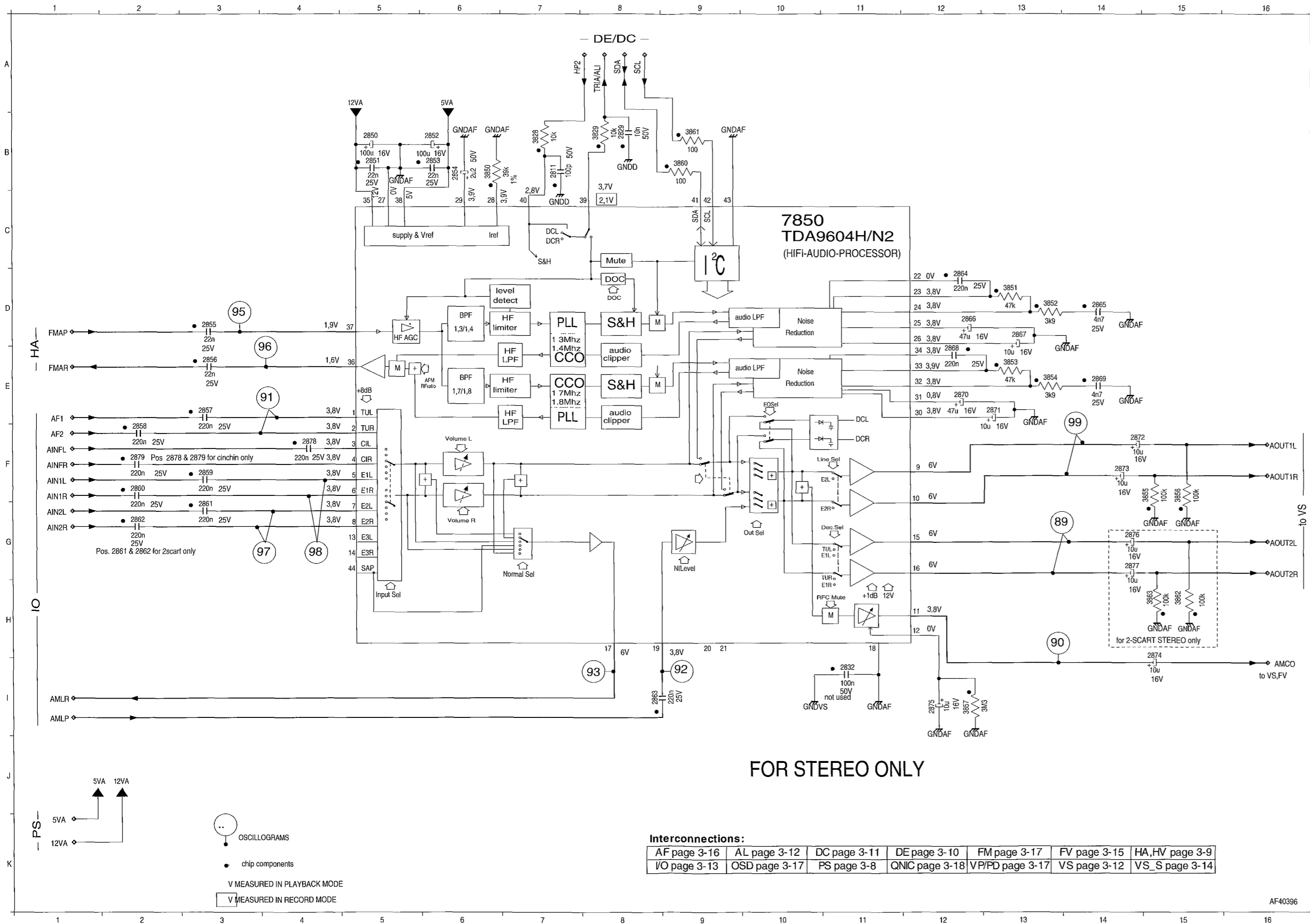


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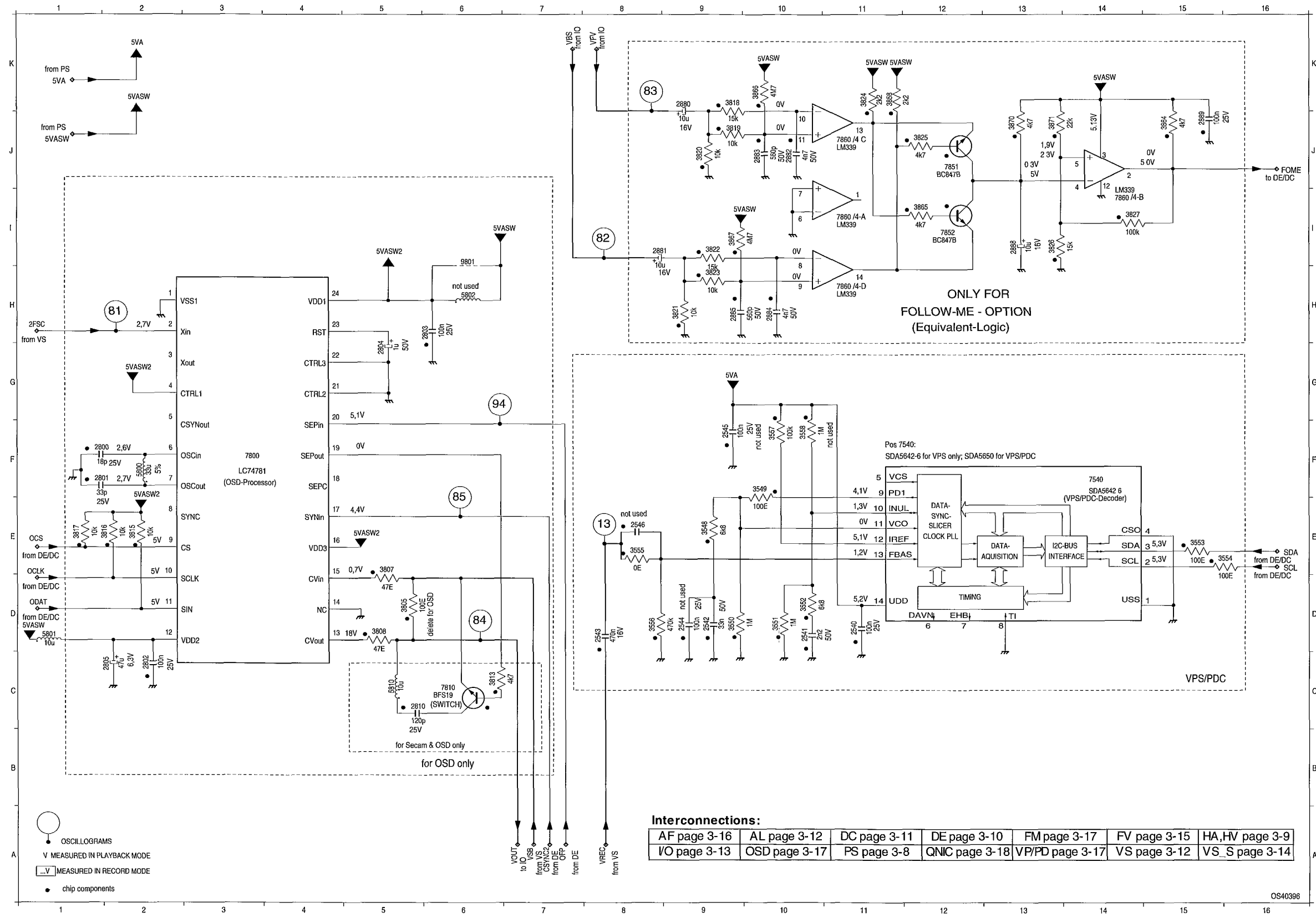


Audio FM Processing (AF)



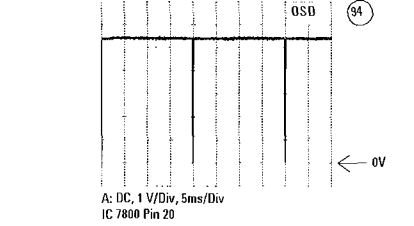
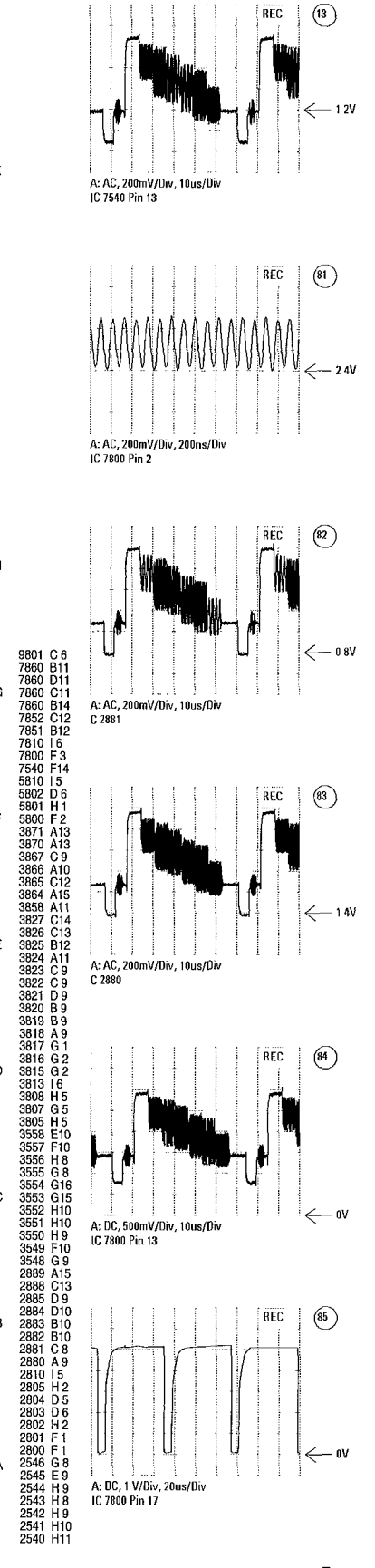
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2829 B 8
2832 I 11
2850 B 5
2851 G 5
2852 B 6
2853 B 6
2854 B 6
2855 D 3
2856 E 3
2857 E 3
2858 F 2
2859 F 3
2860 F 2
2861 G 3
2862 G 2
2863 I 8
2864 D 12
2865 D 14
2866 D 12
2867 D 13
2868 E 12
2869 E 14
2870 E 12
2871 E 13
2872 F 14
2873 F 14
2874 I 15
2875 I 12
2876 G 14
2877 G 14
2878 F 4
2879 F 2
3829 B 8
3850 B 6
3851 D 13
3852 D 13
3853 E 13
3854 E 13
3855 F 15
3856 F 15
3857 I 2
3860 B 9
3861 B 9
3862 H 15
3863 H 15
7850 C 10

On Screen Display (OS), Follow Me (FM), Video Programming System / Programm Delivery Control (VP/PD)



Interconnections:

AF page 3-16	AL page 3-12	DC page 3-11	DE page 3-10	FM page 3-17	FV page 3-15	HA, HV page 3-9
I/O page 3-13	OSD page 3-17	PS page 3-8	QNIC page 3-18	VP/PD page 3-17	VS page 3-12	VS_S page 3-14

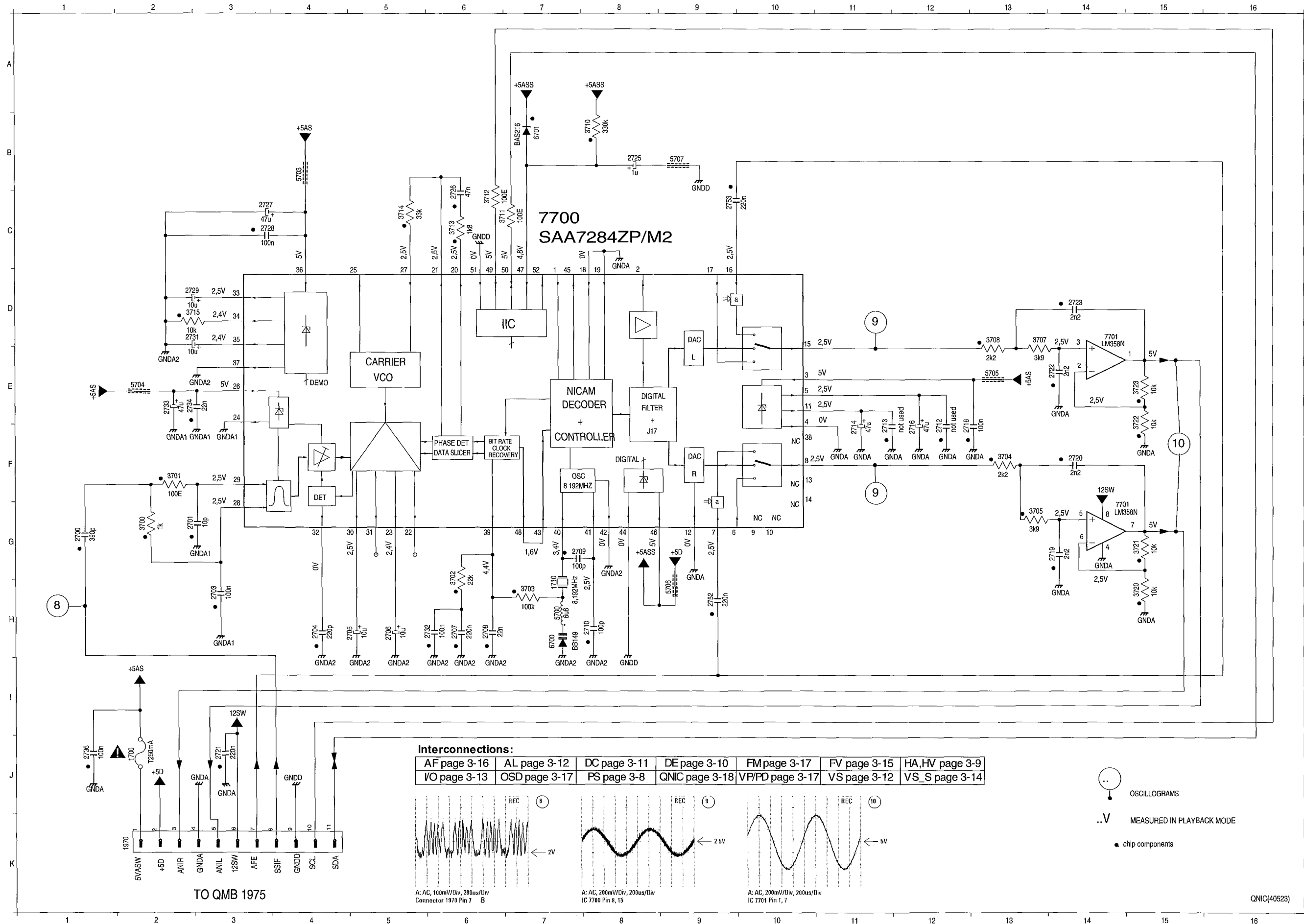


A: DC, 1 V/Div, 5ms/Div IC 7800 Pin 20

○ OSCILLOGRAMS
 V MEASURED IN PLAYBACK MODE
 ...V MEASURED IN RECORD MODE
 ● chip components

OS40396

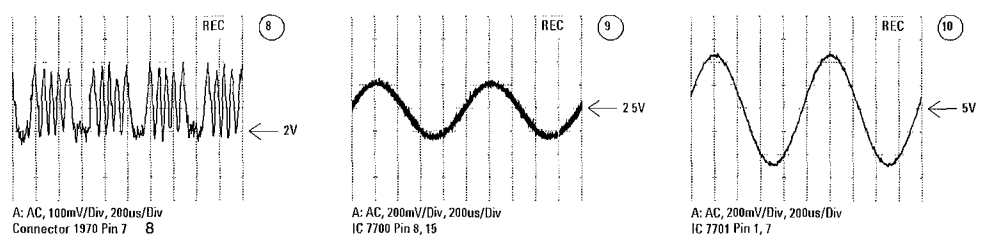
Nicam Board (QNIC)



- 1700 J2
- 1710 H7
- 1970 K2
- 2700 G1
- 2701 G2
- 2703 H3
- 2704 H4
- 2705 H5
- 2706 H5
- 2707 H6
- 2708 H6
- 2709 G7
- 2710 H8
- 2712 F12
- 2713 F11
- 2714 F11
- 2716 F12
- 2718 F12
- 2719 G14
- 2720 F14
- 2721 J3
- 2722 E14
- 2723 D14
- 2725 B8
- 2726 C6
- 2727 C3
- 2728 C3
- 2729 D2
- 2731 D2
- 2732 H6
- 2733 E2
- 2734 E2
- 2736 J1
- 2752 H9
- 2753 C9
- 3700 G2
- 3701 F2
- 3702 G6
- 3703 H7
- 3704 F13
- 3705 G13
- 3707 D13
- 3708 D13
- 3710 B8
- 3711 C7
- 3712 C6
- 3713 C6
- 3714 C5
- 3715 D3
- 3720 H15
- 3721 G15
- 3722 E15
- 3723 E15
- 5700 H7
- 5703 B4
- 5704 E2
- 5705 E13
- 5706 H9
- 5707 B9
- 6700 H7
- 6701 B7
- 7700 C7
- 7701 D14
- 7701 G14

Interconnections:

AF page 3-16	AL page 3-12	DC page 3-11	DE page 3-10	FM page 3-17	FV page 3-15	HA, HV page 3-9
VO page 3-13	OSD page 3-17	PS page 3-8	QNIC page 3-18	VP/PD page 3-17	VS page 3-12	VS_S page 3-14

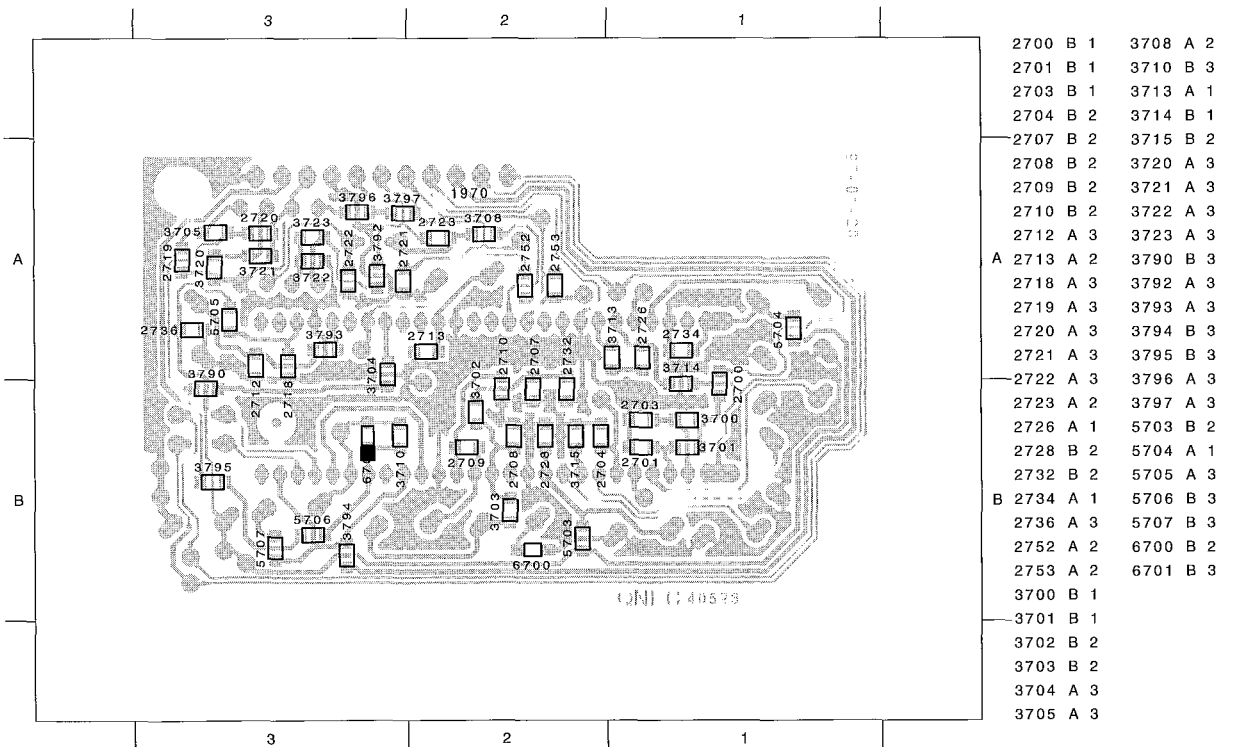
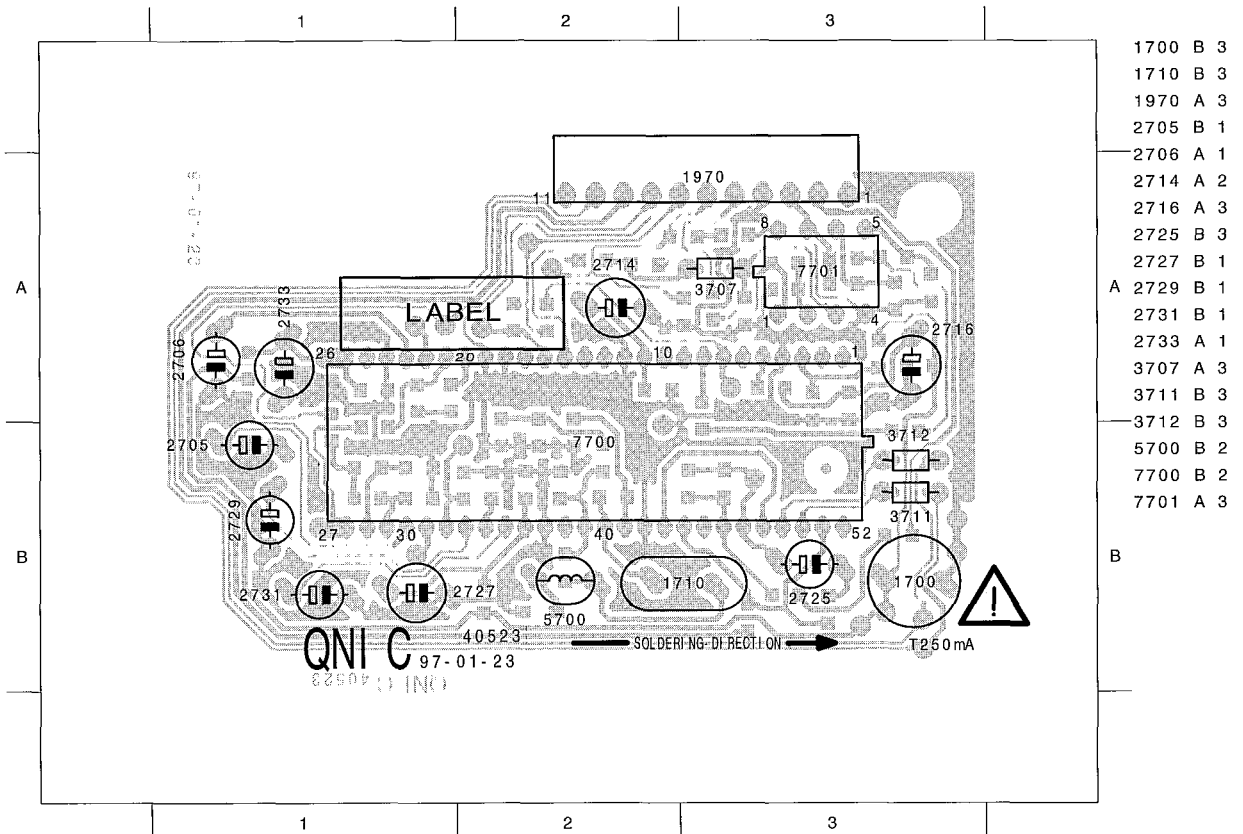


- ⋯ OSCILLOGRAMS
- ..V MEASURED IN PLAYBACK MODE
- chip components

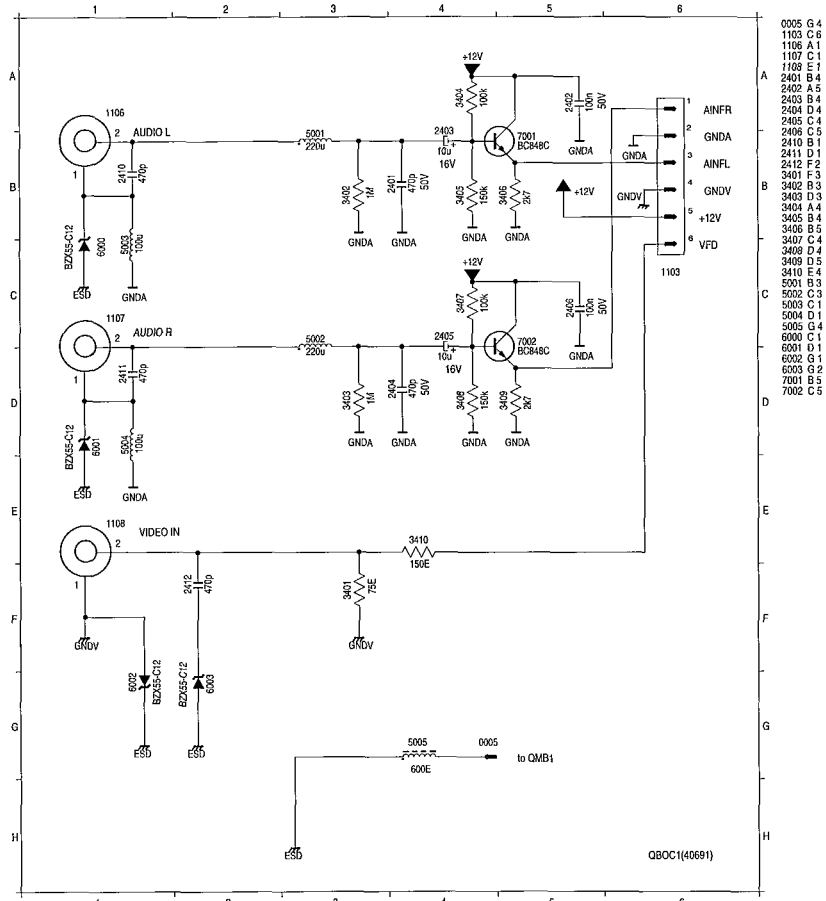
TO QMB 1975

QNIC(40523)

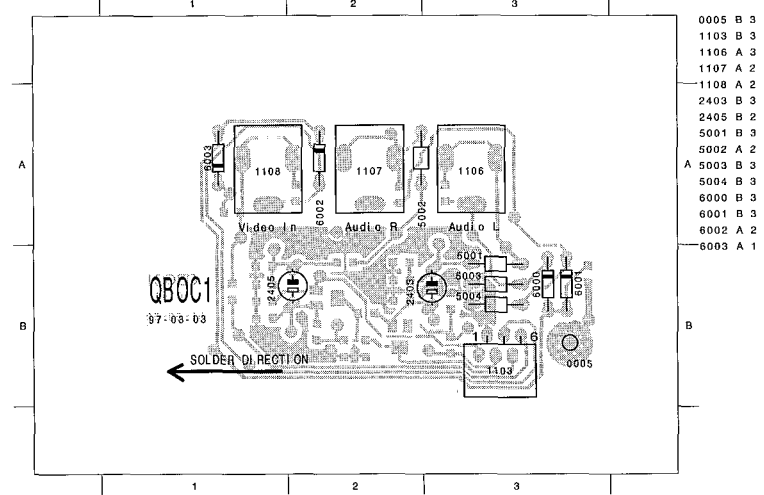
Nicam Board (QNIC)



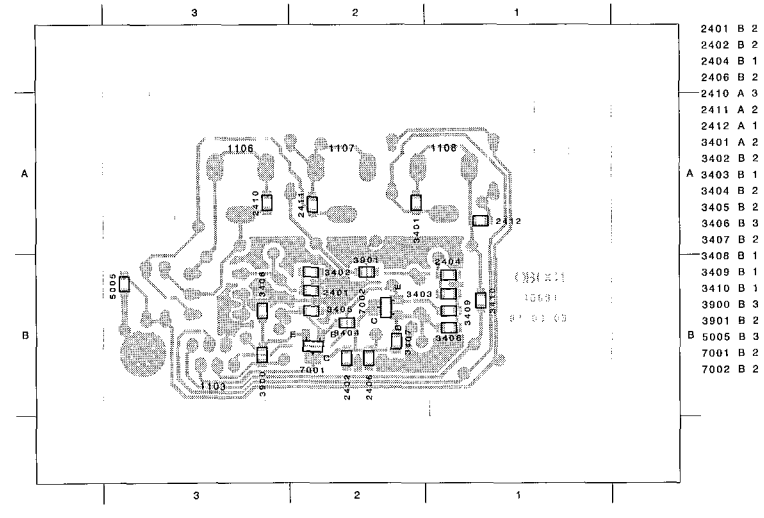
Socket Board QBOC1



- 0005 G 4
- 1103 C 6
- 1106 A 1
- 1107 C 1
- 1108 E 7
- 2401 B 4
- 2402 A 5
- 2403 B 4
- 2404 D 4
- 2405 C 4
- 2406 C 5
- 2410 B 1
- 2411 D 1
- 2412 F 2
- 3401 F 3
- 3402 B 3
- 3403 D 3
- 3404 A 4
- 3405 B 4
- 3406 B 5
- 3407 C 4
- 3408 D 4
- 3409 D 5
- 3410 F 4
- 5001 B 3
- 5002 C 3
- 5003 C 1
- 5004 D 1
- 5005 G 4
- 6000 C 1
- 6001 D 1
- 6002 G 1
- 6003 G 2
- 7001 B 5
- 7002 C 5



- 0005 B 3
- 1103 B 3
- 1106 A 3
- 1107 A 2
- 1108 A 2
- 2403 B 3
- 2405 B 2
- 5001 B 3
- 5002 A 2
- A 5003 B 3
- 5004 B 3
- 6000 B 3
- 6001 B 3
- 6002 A 2
- 6003 A 1



- 2401 B 2
- 2402 B 2
- 2404 B 1
- 2406 B 2
- 2410 A 3
- 2411 A 2
- 2412 A 1
- 3401 A 2
- 3402 B 2
- A 3403 B 1
- 3404 B 2
- 3405 B 2
- 3406 B 3
- 3407 B 2
- 3408 B 1
- 3409 B 1
- 3410 B 1
- 3900 B 3
- 3901 B 2
- B 5005 B 3
- 7001 B 2
- 7002 B 2

4. DRIVE ASSEMBLY

4.1 MECHANICAL PARTS LIST

Pos.	Description	K I T S							Code number 4822
		B	I	L	P	Q	R	S	
1	Rec. protection lever (with spring)								402 10202
2	Chassis mounting spring (2x)								492 71022
5	Main brake left				P				
6	Main brake spring (2x)				P				
9	Damping roller *)								528 70782
10	Main brake right				P				
11	Tension arm spring								492 33317
12	Tension crank								403 70551
13	Slip ring						R		
14	Tension band				P				
15	Tension arm								403 70547
16	Erase head								249 10522
17	Swivelling gear						R		
18	Brake gear (2x)						R		
19	Swivelling plate						R		
20	Reel table (S)						R		
20a	Reel table (T)						R		
21	Headamplifier holder							T	
22	Bracket							T	
23	Roller unit left								528 70771
24	Loading arm left	B							
25	Loading arm right	B							
26	Roller unit right								528 70772
27	Loading gear	B							
30	Reverse clip					Q			
31	Reverse lever					Q			
32	Intermediate lever					Q			
33	Head disc 2/0								691 10583
33	Head disc 2/0-LP								691 10585
33	Head disc 4/0								691 10674
33	Head disc 4/0 Secam								691 21012
33	Head disc 4/2								691 10548
33	Head disc 4/2 Secam								691 10551
34	Scanner motor 2/0 (with screws)								361 10963
34	Scanner motor 4/0 (with screws)								361 10819
34	Scanner motor 4/2 (with screws)								361 10901
35	Cleaning roller								528 70773
36	A/C Head (with clip and screws)								249 10468
37	Pressure roller (with spring)								528 70774
38	Threading motor								361 10809
39	Threading belt								358 20421
40	Motor holder							T	
41	Pressure roller guide							S	
42	Reverse brake				P				
44	Slider gear	B						S	
45	Cam wheel							S	
46	Cam shaft							S	
47	Pulley shaft								528 81462
48	Worm shaft							S	
49	Chassis mounting clip							T	
50	WD-holder							T	

Pos.	Description	K I T S							Code number 4822
		B	I	L	P	Q	R	S	
101	Cassette loader trigger			L					
102	Clip			L					
103	Cassette loader gear1			L					
104	Cassette loader spring			L					
105	Cassette loader gear2			L					
106	Spindle								535 93277
111	Cam wheel reverse	B							
112	Tension lever							T	
113	Cam wheel tension	B							
114	Clutch lever (with spring)								403 70549
115	Clutch								528 20736
116	Changing gear		I						
117	Double gear		I						
118	Light prism							T	
119	Init flap and holder							T	
120	Cam wheel lever							T	
121	S-VHS lever							T	
122	Prism rihgt							T	
123	Prism left							T	
125	Main slider							T	
126	Driving belt								358 31166
127	Capstan motor (with screws)								361 10805
129	Reverse kicker with transmission gears *)								522 20451
128	Gear pulley		I						
150	Lift								443 64112
	KIT B								310 31955
	KIT I								310 31963
	KIT L								310 32116
	KIT P								310 32191
	KIT Q								310 10658
	KIT R								310 10659
	KIT S								310 10661
	KIT T								310 10662

*) optional

Um eine hohen Reparaturstandard zu gewährleisten sind mit Ausnahme von Kit T immer alle im Kit enthaltenen Teile zu tauschen

In order to guarantee a high repairstandard all spare parts included in a kit have to be replaced with the exception of kit T

Per una riparazione garantita occorre sostituire tutti i pezzi contenuti nei kit, fatta eccezione per il kit T

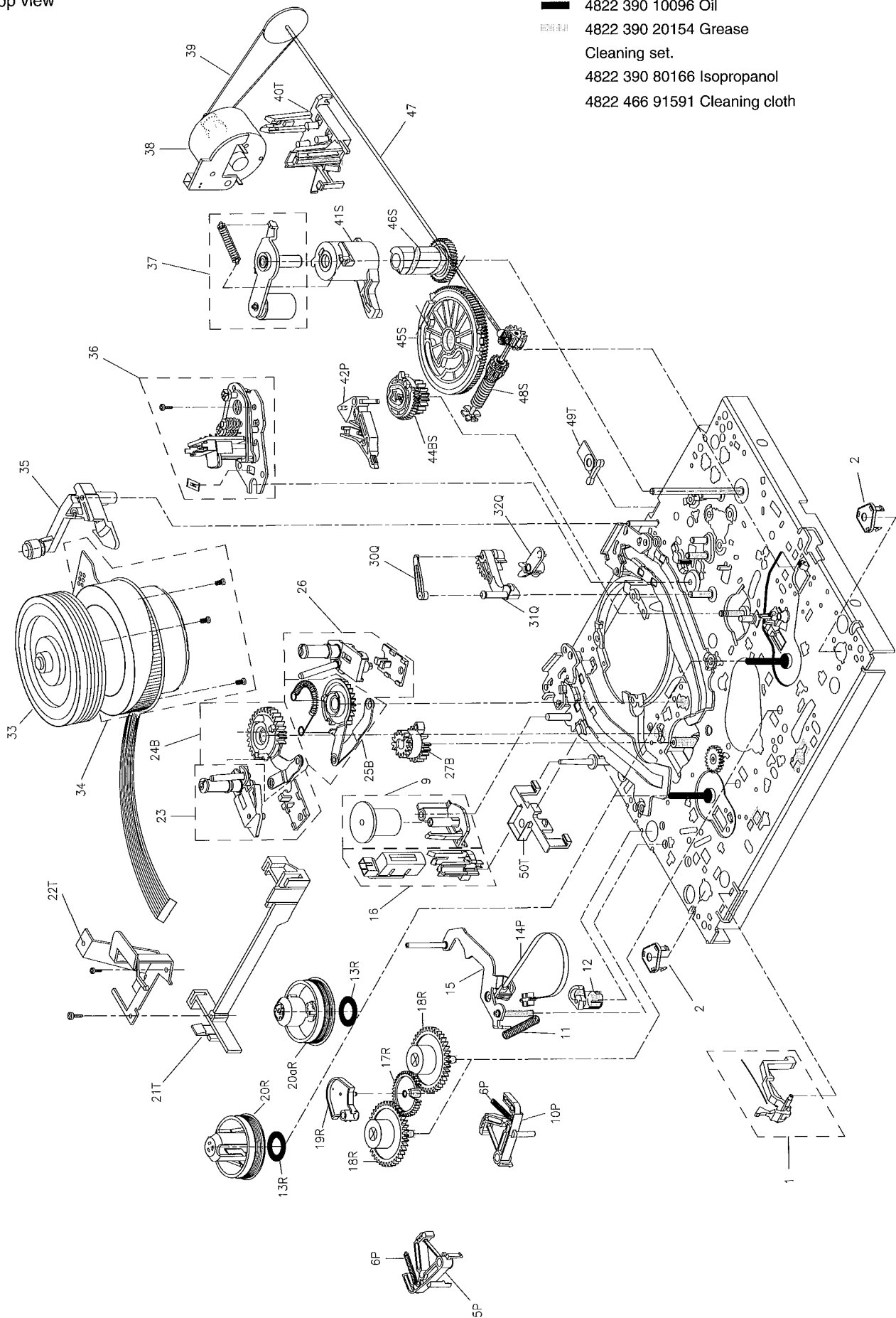
Para obtener un estándar de reparaciones elevado, es necesario cambiar todas las partes contenidas en el kit, la única excepción es para el kit T

A fin d'obtenir un standard de réparations élevé, toutes les pièces de rechange incluses dans un kit sont à remplacer, exception faite du kit T.

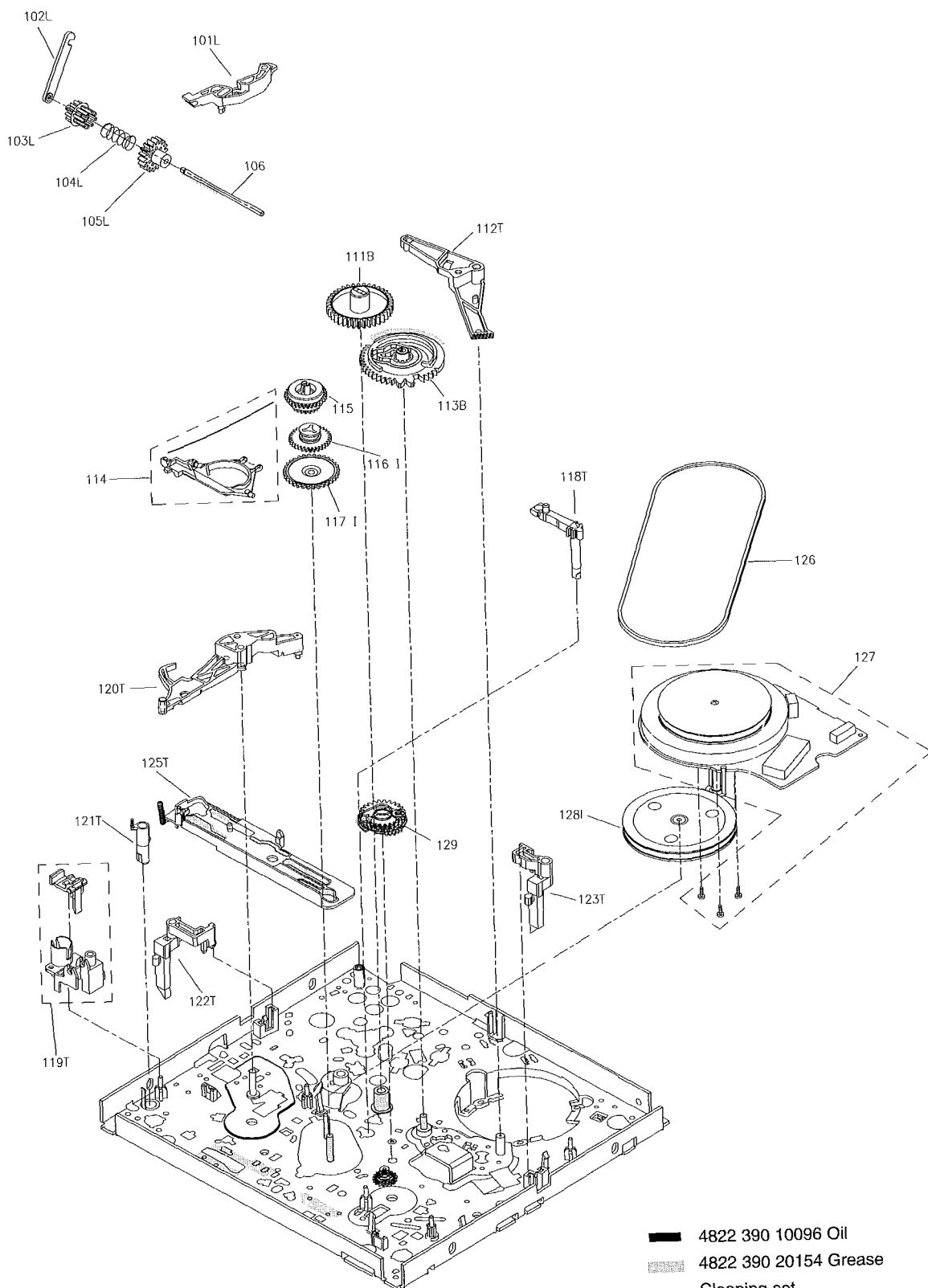
Om een hoge reparatiekwaliteit te waarborgen moeten, met uitzondering van kit T, altijd alle zich in een kit bevindende onderdelen worden vervangen.

4.2 Exploded view

Top view

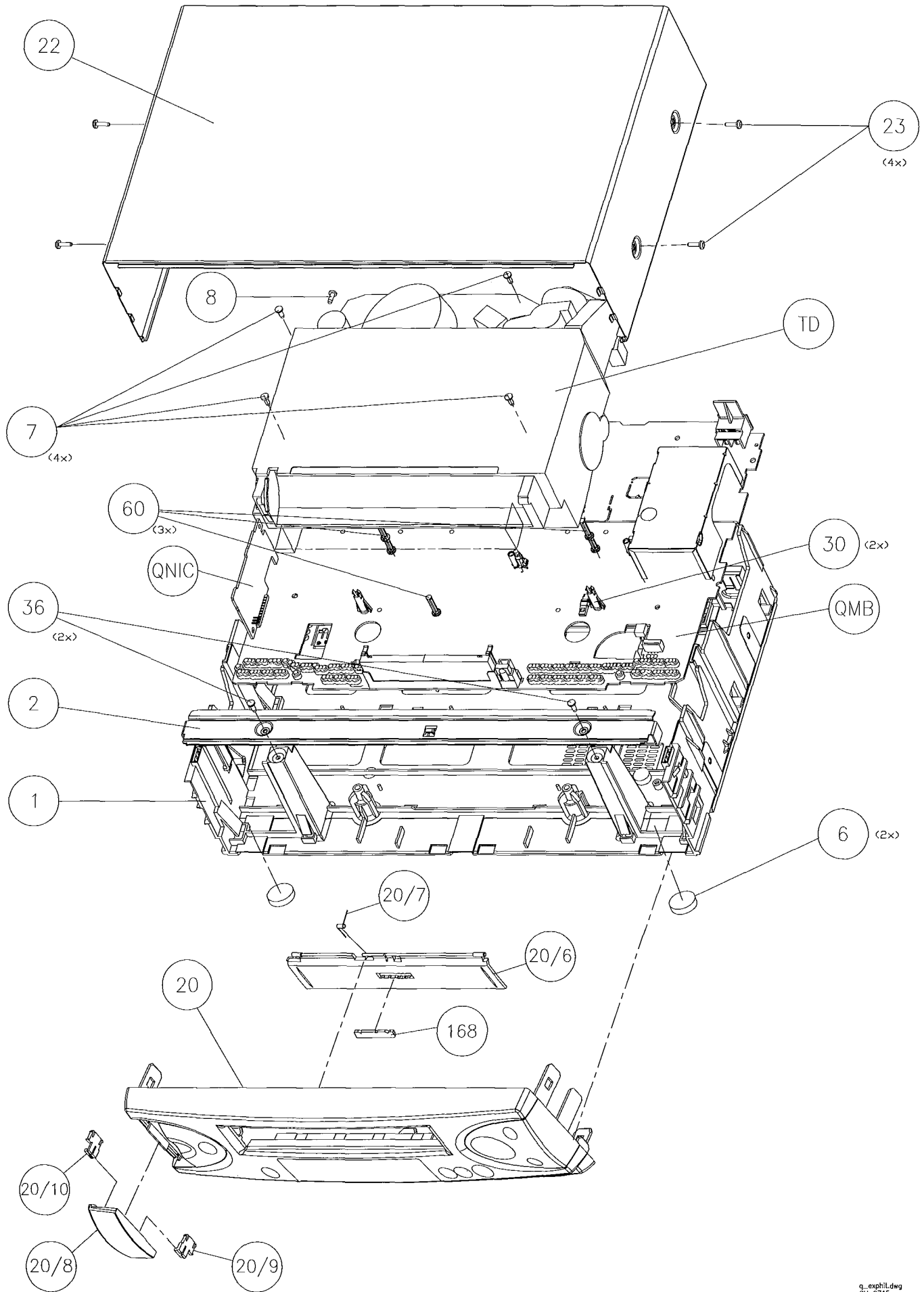


Underside view



- 4822 390 10096 Oil
- ▨ 4822 390 20154 Grease
- Cleaning set.
- 4822 390 80166 Isopropanol
- 4822 466 91591 Cleaning cloth

Exploded View set



PARTS LISTS
Cabinet parts

Pos	Service code	Description	VT-FX742ELN	VT-FX752ELN	VT-MX702EL	VT-MX705EUK	VT-MX705EVPS	VT-MX710EPV	VT-MX730EVPS	VT-MX732EL
1	R3103 138 86070	FRAME STEREO	✓	✓						
	R3103 138 86290	FRAME 2SCART			✓	✓	✓	✓	✓	✓
2	R3103 141 22800	BRACKET	✓	✓	✓	✓	✓	✓	✓	✓
6	R3103 184 00830	FOOT	✓	✓	✓	✓	✓	✓	✓	✓
7	R3103 100 42400	SCREW 3,5X16	✓	✓	✓	✓	✓	✓	✓	✓
8	R3103 100 42530	SCREENING SCREW	✓	✓	✓	✓	✓	✓	✓	✓
20	R3103 138 88150	CONTROL PANEL	✓							
	R3103 138 88130	CONTROL PANEL		✓						
	R3103 138 88100	CONTROL PANEL			✓					
	R3103 138 88160	CONTROL PANEL				✓				
	R3103 138 88080	CONTROL PANEL					✓			
	R3103 138 88140	CONTROL PANEL						✓		
	R3103 138 88090	CONTROL PANEL							✓	
	R3103 138 88110	CONTROL PANEL								✓
20/6	R3103 178 23290	LIFT FLAP	✓							
	R3103 178 23230	LIFT FLAP		✓						
	R3103 178 23170	LIFT FLAP			✓					✓
	R3103 178 23340	LIFT FLAP				✓				
	R3103 178 23160	LIFT FLAP					✓		✓	
	R3103 178 23240	LIFT FLAP						✓		
20/7	R3103 111 02450	LEG SPRING	✓	✓	✓	✓	✓	✓	✓	✓
20/8	R3103 178 21470	FLAP FRONT		✓						
20/9	R3112 404 10420	HINGE		✓						
20/10	R3112 404 10430	HINGE		✓						
22	R3103 141 23170	COVER LACQUERED	✓			✓				
	R3103 141 23160	COVER LACQUERED		✓	✓		✓	✓	✓	✓
23	R3112 400 40220	SCREW 3,5X10	✓	✓	✓	✓	✓	✓	✓	✓
30	R3103 107 61760	DISTANCE HOLDER DECK	✓	✓	✓	✓	✓	✓	✓	✓
36	R3103 100 41320	SCREW 2,9X12	✓	✓	✓	✓	✓	✓	✓	✓
60	R3103 104 20111	DISTANCE HOLDER MOBO	✓	✓	✓	✓	✓	✓	✓	✓
151	R8622 661 73301	REMOTE RT173/301 GB				✓	✓	✓	✓	
	R8622 661 73304	REMOTE RT173/304 FR	✓	✓	✓					✓
152	R3103 166 20610	DIR.FOR USE FR	✓							
	R3103 166 20620	DIR.FOR USE FR		✓						
	R3103 166 20380	DIR.FOR USE FR			✓					
	R3103 166 20630	DIR.FOR USE GB				✓				
	R3103 166 20400	DIR.FOR USE D, I, E, S					✓			
	R3103 166 20600	DIR.FOR USE N, S						✓		
	R3103 166 20370	DIR.FOR USE D, I, E, S							✓	
	R3103 166 20390	DIR.FOR USE FR								✓
168	R3103 110 01280	WORDMARK HITACHI		✓	✓		✓	✓	✓	✓

Motherboard PAL, SECAM, MONO, STEREO

CONNECTORS

1001▲	R4822 267 10577	MAINS PLUG
1002	R4822 267 10498	CONN 3p
1710	R4822 265 30989	CONN. 3p
1711	R4822 267 41062	CONN. 6p
1750	R4822 267 10458	CONN 3p
1908	R4822 267 10584	CONN 1p
1909	R4822 267 10583	CONN 1p
1910	R4822 267 10584	CONN. 1p
1911	R4822 265 10938	CINCH 2p white
1912	R4822 265 10939	CINCH 2p red
1915	R4822 267 10364	CONN. 9p
1916	R4822 267 41199	CONN. 5p
1917	R4822 264 10345	SCART CONN. ORANGE
1918	R4822 264 10346	SCART CONN BLUE
1930	R4822 267 41062	CONN 6p
1944	R4822 265 30989	CONN 3p
1945	R4822 267 51261	CONN. 8p
1946	R4822 267 10366	CONN 8p
1961	R4822 267 31512	CONN 7p
1962	RF5322 268 90415	CONN. 2p
1969	R4822 267 10458	CONN 3p

MISCELLANEOUS

0005	R4822 256 10355	DISPLAY HOLDER
0007	R4822 256 10195	HOLDER
0008	R4822 256 10196	HOLDER
0020	R4822 256 10197	HOLDER
0021	R4822 256 10197	HOLDER
0022	R4822 256 10197	HOLDER
1000	R4822 242 81067	Crystal 4.433 619 MHZ
1113	R4822 276 13951	SWITACT 1P 20MA 15V
1132	R4822 276 13951	SWITACT 1P 20MA 15V
1144	R4822 276 13951	SWITACT 1P 20MA 15V
1145	R4822 276 13951	SWITACT 1P 20MA 15V
1155	R4822 276 13951	SWITACT 1P 20MA 15V
1178	R4822 276 13951	SWITACT 1P 20MA 15V
1181	R4822 276 13951	SWITACT 1P 20MA 15V
1183	R4822 276 13951	SWITACT 1P 20MA 15V
1185	R4822 276 13951	SWITACT 1P 20MA 15V
1192	R4822 276 13951	SWITACT 1P 20MA 15V
1193	R4822 276 13951	SWITACT 1P 20MA 15V
1224	R4822 276 13951	SWITACT 1P 20MA 15V
1227	R4822 276 13951	SWITACT 1P 20MA 15V
1230	R4822 276 13951	SWITACT 1P 20MA 15V
1232	R4822 276 13951	SWITACT 1P 20MA 15V
1233	R4822 276 13951	SWITACT 1P 20MA 15V
1236	R4822 276 13951	SWITACT 1P 20MA 15V
1297	R5322 242 73682	Crystal 32 768 KHZ
1298	R4822 242 82114	Crystal 8 00 MHZ
1350▲	R4822 252 11234	Fuse 100 mA
1351▲	R4822 071 55001	Fuse 500 mA
1352▲	R4822 071 55001	Fuse 500 mA
1353▲	R4822 070 31252	Fuse 1.25 A
1355▲	R4822 252 11235	Fuse 1 0 A
1356▲	R4822 252 11235	Fuse 1.0 A
1400	R4822 242 82059	Crystal 10 MHZ
1460	R4822 277 11521	Switch
1461	R4822 277 11521	Switch
1701	R4822 210 10786	TP916MK2 PAL BG
		(TMRG1-108A compatible)
1701	R4822 210 10787	TMRG1-110A PAL I (IRL)
		(TP944MK2, TMRB1102A comp.)
1701	R4822 210 10785	TP926MK2 Booster SECAM
		(TMRG2-104A compatible)
1719	R4822 242 10688	OFWK9456M SEC-LL'
1720	R4822 242 81964	G1984 stereo PAL-G
1720	R4822 242 81737	G1965 mono SEC
1720	R4822 242 81436	OFWK3953M stereo SEC
1721	R4822 242 81388	OFWG1961M mono PAL-G

1721	R4822 242 10575	OFWJ1980M PAL-I
1740	R4822 242 72586	TPS 5,5MB-TF20 PAL-G
1740	R4822 242 81572	TPS 6,0MB-TF21 PAL-I
1745	R4822 242 70279	SFE 6,0MB SEC-L, PAL-I
1745	R4822 242 10428	EFCT5R5YS5A PAL-G
1746	R4822 242 10428	EFCT5R5YS5A
1747	R4822 242 10563	EFCT5R74YS5A stereo FM
1781	R4822 242 82059	Crystal 10 MHZ

CAPACITORS

2001	R4822 126 10002	100nF20%Y5V 25V
2002	R4822 122 33177	10nF 20% X7R 50V
2003	R4822 126 10002	100nF20%Y5V 25V
2004	R4822 122 33177	10nF 20% X7R 50V
2005	R4822 124 23055	22µF20% 16V
2006	R4822 126 13222	390pF 2% np0 63V
2007	R5322 122 32966	39pF 5%np0 50V
2008	R5322 122 32658	22pF 5% 50V
2009	R4822 126 10002	100nF20%Y5V 25V
2010	R4822 124 80987	220µF20% 6,3V
2011	R4822 122 33177	10nF 20% X7R 50V
2012	R4822 124 11569	4,7µF 20% 25V
2013	R4822 126 10002	100nF20%Y5V 25V
2014	R4822 124 80975	0,47µF20% 50V
2015	R4822 126 10002	100nF20%Y5V 25V
2016	R4822 126 10002	100nF20%Y5V 25V
2017	R4822 124 22826	10µF 16V
2018	R5322 122 32658	22pF 5% 50V
2019	R4822 124 22826	10µF 16V
2020	R4822 124 22826	10µF 16V
2021	R4822 124 22826	10µF 16V
2022	R4822 126 10002	100nF20%Y5V 25V
2023	R4822 122 33177	10nF 20% X7R 50V
2024	R4822 126 10002	100nF20%Y5V 25V
2025	R4822 124 11568	47µF 20% 16V
2026	R4822 122 33575	220pF 5% 50V
2027	R4822 122 33177	10nF 20% X7R 50V
2028	R4822 122 33177	10nF 20% X7R 50V
2029	R4822 122 33177	10nF 20% X7R 50V
2030	R4822 122 33177	10nF 20% X7R 50V
2031	R4822 126 10002	100nF20%Y5V 25V
2032	R4822 124 11568	47µF 20% 16V
2033	R4822 126 10002	100nF20%Y5V 25V
2034	R4822 122 33177	10nF 20% X7R 50V
2035	R4822 122 33177	10nF 20% X7R 50V
2036	R4822 122 33515	82pF 5% 63V
2037	R4822 126 14124	220pF 2%
2038	R5322 122 32658	22pF 5% 50V
2038	R5322 122 32139	12pF 2% 50V for 2 heads
2039	R4822 124 23053	1µF20% 63V
2040	R5322 122 32654	22nF10%X7R 63V
2041	R4822 124 23053	1µF20% 63V
2042	R4822 122 33797	47nF20%Y5V 50V
2043	R4822 124 41969	1µF20% 50V
2044	R4822 124 23053	1µF20% 63V
2045	R4822 126 13196	100nF10%X7R 50V
2046	R5322 122 34123	1nF10%X7R 50V
2048	R5322 122 31873	2,7pF0,5% 100V
2047	R4822 122 33177	10nF 20% X7R 50V
2049	R4822 124 11568	47µF 20% 16V
2054	R4822 124 41969	1µF20% 50V
2055	R4822 122 33177	10nF 20% X7R 50V
2059	R4822 124 23053	1µF20% 63V
2064	R5322 122 31946	27pF 5% 63V
2066	R4822 122 33177	10nF 20% X7R 50V
2080	R5322 122 32658	22pF 5% 50V
2081	R4822 122 33177	10nF 20% X7R 50V
2082	R4822 122 33177	10nF 20% X7R 50V
2083	R4822 122 33177	10nF 20% X7R 50V
2084	R4822 122 33177	10nF 20% X7R 50V
2085	R4822 126 10002	100nF20%Y5V 25V
2086	R4822 124 11568	47µF 20% 16V

Motherboard PAL, SECAM, MONO, STEREO

2087	R4822 122 33177	10nF 20% X7R 50V	
2100	R4822 122 33177	10nF 20% X7R 50V	
2101	R5322 122 32531	100pF 5% 50V	
2102	R5322 122 32658	22pF 5% 50V	
2103	R5322 122 34123	1nF10%X7R 50V	
2104	R4822 122 33177	10nF 20% X7R 50V	
2105	R4822 122 33177	10nF 20% X7R 50V	
2106	R4822 122 33177	10nF 20% X7R 50V	
2107	R4822 122 33177	10nF 20% X7R 50V	
2108	R5322 122 33538	150pF 2% 63V	
2109	R5322 122 32481	15pF 5% 50V	
2110	R4822 126 10002	100nF20%Y5V 25V	
2111	R4822 126 13694	68pF 1% 63V	
2112	R4822 122 33177	10nF 20% X7R 50V	
2113	R4822 126 10002	100nF20%Y5V 25V	
2115	R4822 122 33575	220pF 5% 50V	
2116	R4822 122 33177	10nF 20% X7R 50V	
2117	R5322 122 34123	1nF10%X7R 50V	
2118	R5322 122 32659	33pF 5% 50V	
2119	R5322 122 32531	100pF 5% 50V for mstd /39	
2119	R4822 122 33797	47nF 20% 50V	
2121	R5322 122 34123	1nF10%X7R 50V	
2122	R4822 122 33177	10nF 20% X7R 50V	
2123	R4822 126 10002	100nF20%Y5V 25V	
2124	R4822 126 10002	100nF20%Y5V 25V	
2125	R4822 122 33515	82pF 5% 63V	
2126	R5322 122 31946	27pF 5% 63V	
2128	R4822 122 33515	82pF 5% 63V	
2129	R4822 122 33515	82pF 5% 63V	
2130	R4822 122 33575	220pF 5% 50V	
2132	R5322 122 32269	6,8pF 5% 50V	
2133	R5322 122 32452	47pF 5% 63V	
2134	R4822 122 33575	220pF 5% 50V	
2135	R5322 122 31946	27pF 5% 63V	
2137	R4822 116 10056	VDR 0805 1MA/ 8V	
2138	R4822 116 10056	VDR 0805 1MA/ 8V	
2150	R4822 122 33177	10nF 20% X7R 50V	
2151	R4822 126 13061	220nF20% Y5V 25V	
2152	R4822 124 11568	47µF 20% 16V	
2153	R5322 122 32654	22nF 10% X7R 63V	
2154	R4822 122 33177	10nF 20% X7R 50V	
2155	R4822 122 33177	10nF 20% X7R 50V	
2156	R4822 122 33177	10nF 20% X7R 50V	
2157	R4822 122 33177	10nF 20% X7R 50V	
2158	R4822 122 33177	10nF 20% X7R 50V	
2159	R4822 122 33177	10nF 20% X7R 50V	
2160	R4822 122 33177	10nF 20% X7R 50V	
2161	R4822 122 33177	10nF 20% X7R 50V	
2162	R5322 122 32268	470pF 10% 50V	
2163	R5322 122 32531	100pF 5% 50V	
2203	R5322 122 32481	15pF 5% 50V	
2204	R5322 122 32481	15pF 5% 50V	
2210	R4822 122 33177	10nF 20% X7R 50V	
2211	R4822 124 81112	220µF20% 10V	
2212	R4822 126 13061	220nF20% Y5V 25V	
2220	R4822 124 23055	22µF20% 16V	
2230	R4822 122 33177	10nF 20% X7R 50V	
2231	R4822 122 33797	47nF20%Y5V 50V	
2232	R4822 122 33177	10nF 20% X7R 50V	
2233	R4822 122 33177	10nF 20% X7R 50V	
2251	R4822 126 10002	100nF20%Y5V 25V	
2252	R4822 126 10002	100nF20%Y5V 25V	
2297	R4822 124 11968	220mF +80-20% 5,5V	
2300	R4822 124 80407	1µF20% 50V	
2301	R4822 124 80407	1µF20% 50V	
2302	R4822 124 80407	1µF20% 50V	
2308	R5322 122 32531	100pF 5% 50V	
2310	R4822 126 10002	100nF20%Y5V 25V	
2311	R4822 122 33177	10nF 20% X7R 50V	
2313	R4822 122 33575	220pF 5% 50V	
2314	R4822 126 10002	100nF20%Y5V 25V	
2315	R4822 122 33177	10nF 20% X7R 50V	
2316	R4822 122 33797	47nF20%Y5V 50V	
2317	R5322 122 32654	22nF10%X7R 63V	
2318	R4822 124 22263	220µF20% 25V	
2319	R5322 122 32654	22nF10%X7R 63V	
2320	R5322 122 32654	22nF10%X7R 63V	
2350	R4822 126 14125	470pF 2%	
2353	R4822 126 13196	100nF10% X7R25V	
2354	R4822 126 10002	100nF20%Y5V 25V	
2355	R5322 122 34123	1nF10%X7R 50V	
2356	R4822 124 23053	1µF20% 63V	
2357▲	R4822 126 13841	1nF 20% 250V	
2358	R4822 126 10002	100nF20%Y5V 25V	
2359	R4822 126 13061	220nF20% Y5V 25V	
2360▲	R4822 121 10667	68nF 20% 275V	
2361	R4822 124 22864	47µF 50V	
2362▲	R4822 124 11969	22µF 20% 400V	
2363	R4822 124 22864	47µF 50V	
2364	R4822 124 11899	220µF 20% 25V	
2365	R4822 124 11971	470µF 20% 16V	
2366	R4822 126 14126	47pF 5% 2KV	
2367	R4822 124 11899	220µF 20% 25V	
2368	R4822 122 31175	1nF 10% 500V	
2369	R4822 126 10002	100nF20%Y5V 25V	
2370	R4822 124 23052	100µF20% 16V	
2371	R4822 124 11971	470µF 20% 16V	
2372	R4822 126 13061	220nF20% Y5V 25V	
2373	R4822 124 11486	220µF 20% 16V	
2374	R4822 124 11971	470µF 20% 16V	
2375	R4822 121 42004	10nF 10% 400V	
2376	R4822 124 22833	10µF 50V	
2378	R4822 121 42004	10nF 10% 400V	
2379	R5322 126 10223	4,7nF10%X7R 63V	
2385	R4822 124 11486	220µF 20% 16V	
2386	R5322 122 32268	470pF 10% 50V	
2400	R4822 122 33177	10nF 20% X7R 50V	
2401	R4822 124 23055	22µF20% 16V	
2403	R5322 122 32658	22pF 5% 50V	
2404	R5322 122 32658	22pF 5% 50V	
2416	R4822 126 10002	100nF20%Y5V 25V	
2417	R4822 124 81295	47µF20% 6,3V	
2440	R4822 124 81029	100µF20% 25V	
2441	R4822 126 10002	100nF20%Y5V 25V	
2442	R4822 122 33177	10nF 20% X7R 50V	
2455	R4822 122 33175	2,2nF 20% X7R50V	
2459	R4822 124 22263	220µF20% 25V	
2461	R5322 126 10223	4,7nF10%X7R 63V	
2463	R4822 124 23027	47µF 6.3V	
2464	R5322 126 10223	4,7nF10%X7R 63V	
2465	R4822 122 33175	2,2nF 20% X7R50V	
2466	R4822 124 23027	47µF 6.3V	
2467	R4822 122 33342	33nF10%X7R 63V	
2468	R4822 126 10002	100nF20%Y5V 25V	
2470	R4822 122 33177	10nF 20% X7R 50V	
2471	R4822 122 33177	10nF 20% X7R 50V	
2472	R5322 122 32531	100pF 5% 50V	
2473	R5322 122 32531	100pF 5% 50V	
2474	R5322 122 32531	100pF 5% 50V	
2501	R4822 126 10002	100nF20%Y5V 25V	
2502	R4822 124 22826	10µF 16V	
2503	R4822 124 22826	10µF 16V	
2504	R4822 116 10056	VDR 0805 1MA/ 8V for stereo	
2504	R5322 122 32268	470pF 10% 50V for mono	
2505	R5322 122 32268	470pF 10% 50V for mono	
2505	R4822 116 10056	VDR 0805 1MA/ 8V for stereo	
2506	R4822 116 10056	VDR 0805 1MA/ 8V for stereo	
2506	R5322 122 32268	470pF 10% 50V for mono	
2507	R4822 116 10056	VDR 0805 1MA/ 8V	
2508	R4822 126 10002	100nF20%Y5V 25V	
2509	R5322 122 32268	470pF 10% 50V for mono	
2509	R4822 116 10056	VDR 0805 1MA/ 8V for stereo	
2510	R5322 122 32268	470pF 10% 50V for mono	
2510	R4822 116 10056	VDR 0805 1MA/ 8V for stereo	
2511	R4822 116 10056	VDR 0805 1MA/ 8V for stereo	
2511	R5322 122 32268	470pF 10% 50V for mono	
2512	R4822 116 10056	VDR 0805 1MA/ 8V	
2514	R4822 124 23027	47µF 6.3V	
2515	R4822 126 10002	100nF20%Y5V 25V	
2516	R4822 124 11568	47µF 20% 16V	

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2517	R4822	126 10002	100nF20%Y5V	25V	2782	R4822	126 10002	100nF20%Y5V	25V
2519	R4822	126 10002	100nF20%Y5V	25V	2783	R5322	126 10184	680p 5%	50V
2520	R4822	126 10002	100nF20%Y5V	25V	2784	R4822	124 11568	47µF 20%	16V
2521	R4822	126 10002	100nF20%Y5V	25V	2785	R5322	122 32531	100pF 5%	50V
2523	R4822	126 10002	100nF20%Y5V	25V	2786	R4822	124 11569	4,7µF 20%	25V
2524	R4822	126 10002	100nF20%Y5V	25V	2787	R4822	124 11569	4,7µF 20%	25V
2525	R4822	126 10002	100nF20%Y5V	25V	2788	R5322	122 32654	22nF10% X7R	63V
2526	R4822	126 10002	100nF20%Y5V	25V	2789	R4822	122 33177	10nF 20% X7R	50V
2527	R4822	126 10002	100nF20%Y5V	25V	2790	R4822	122 33177	10nF 20% X7R	50V
2530	R4822	126 13061	220nF20% Y5V	25V	2791	R4822	124 11569	4,7µF 20%	25V
2540	R4822	126 10002	100nF20%Y5V	25V	2792	R4822	124 11569	4,7µF 20%	25V
2541	R4822	122 33175	2,2nF 20% X7R	50V	2793	R5322	122 32481	15pF 5%	50V
2542	R4822	122 33342	33nF10%X7R	63V	2794	R4822	126 10002	100nF20%Y5V	25V
2543	R4822	126 13482	470nF80/20%	16V	2795	R5322	122 34123	1nF10%X7R	50V
2545	R4822	126 10002	100nF20%Y5V	25V	2796	R4822	124 11569	4,7µF 20%	25V
2600	R5322	126 10184	680p 5%	50V	2800	R4822	126 13689	18pF 1%	63V
2601	R4822	122 33175	2,2nF 20% X7R	50V	2801	R5322	122 32659	33pF 5%	50V
2602	R4822	124 22826	10µF	16V	2802	R4822	126 14118	100nF -20+80%	50V
2603	R4822	122 33177	10nF 20% X7R	50V	2802	R4822	126 10002	100nF20%Y5V	25V
2604	R4822	124 22739	100µF	50V for mono	2803	R4822	126 10002	100nF20%Y5V	25V
2604	R4822	124 22826	10µF	16V for stereo	2804	R4822	124 23053	1µF20%	63V
2605	R5322	122 34123	1nF10%X7R	50V	2805	R4822	124 23027	47µF	6.3V
2606	R4822	126 10002	100nF20%Y5V	25V	2810	R5322	122 33861	120pF10%	50V
2608	R4822	122 33177	10nF 20% X7R	50V	2811	R5322	122 32531	100pF 5%	50V
2617	R4822	124 11568	47µF 20%	16V	2829	R4822	122 33177	10nF 20% X7R	50V
2618	R5322	122 31863	330pF 5%	50V	2831	R5322	122 32481	15pF 5%	50V
2619	R4822	124 11568	47µF 20%	16V	2850	R4822	124 23052	100µF20%	16V
2620	R4822	121 51655	47nF	50V	2851	R5322	122 32654	22nF10% X7R	63V
2621	R5322	122 34123	1nF10%X7R	50V	2852	R4822	124 23052	100µF20%	16V
2622	R4822	121 43873	27nF 5%	50V	2853	R5322	122 32654	22nF10% X7R	63V
2646	R4822	126 13482	470nF80/20%	16V	2854	R4822	124 40786	2,2µF20%	63V
2647	R4822	126 10002	100nF20%Y5V	25V	2855	R5322	122 32654	22nF10% X7R	63V
2648	R4822	124 23055	22µF20%	16V	2856	R5322	122 32654	22nF10% X7R	63V
2650	R4822	126 10002	100nF20%Y5V	25V	2857	R4822	126 13061	220nF20% Y5V	25V
2651	R4822	124 11568	47µF 20%	16V	2858	R4822	126 13061	220nF20% Y5V	25V
2652	R4822	124 22826	10µF	16V	2859	R4822	126 13061	220nF20% Y5V	25V
2656	R4822	126 14127	39nF 10%	50V	2860	R4822	126 13061	220nF20% Y5V	25V
2657	R4822	122 33128	15nF10%X7R	63V	2861	R4822	126 13061	220nF20% Y5V	25V
2700	R4822	126 10002	100nF20%Y5V	25V	2862	R4822	126 13061	220nF20% Y5V	25V
2701	R4822	126 10002	100nF20%Y5V	25V	2863	R4822	126 13061	220nF20% Y5V	25V
2702	R4822	126 10002	100nF20%Y5V	25V	2864	R4822	126 13061	220nF20% Y5V	25V
2704	R4822	124 23052	100µF20%	16V	2865	R5322	126 10223	4,7nF10%X7R	63V
2705	R5322	122 32268	470pF 10%	50V	2866	R4822	124 11568	47µF 20%	16V
2706	R4822	122 33575	220pF 5%	50V	2867	R4822	124 22826	10µF	16V
2707	R5322	122 33861	120pF10%	50V	2868	R4822	126 13061	220nF20% Y5V	25V
2708	R4822	124 23055	22µF20%	16V	2869	R5322	126 10223	4,7nF10%X7R	63V
2709	R4822	126 10002	100nF20%Y5V	25V	2870	R4822	124 11568	47µF 20%	16V
2715	R5322	122 32661	56pF 5%	50V	2871	R4822	124 22826	10µF	16V
2716	R5322	122 32661	56pF 5%	50V	2872	R4822	124 22826	10µF	16V
2722	R5322	122 34123	1nF10%X7R	50V	2873	R4822	124 22826	10µF	16V
2723	R4822	122 33177	10nF 20% X7R	50V	2874	R4822	124 22826	10µF	16V
2726	R4822	126 12104	12nF 5%X7R	63V	2875	R4822	124 22826	10µF	16V
2727	R4822	124 23055	22µF20%	16V	2876	R4822	124 22826	10µF	16V
2728	R4822	124 23055	22µF20%	16V	2877	R4822	124 22826	10µF	16V
2729	R4822	122 33177	10nF 20% X7R	50V	2880	R4822	124 22826	10µF	16V
2730	R5322	122 32452	47pF 5%	63V	2881	R4822	124 22826	10µF	16V
2731	R5322	122 32452	47pF 5%	63V	2882	R5322	126 10223	4,7nF10%X7R	63V
2732	R5322	122 32452	47pF 5%	63V	2883	R5322	116 80853	560pF 5%	63V
2733	R4822	122 33177	10nF 20% X7R	50V	2884	R5322	126 10223	4,7nF10%X7R	63V
2734	R4822	126 10002	100nF20%Y5V	25V	2885	R5322	116 80853	560pF 5%	63V
2735	R5322	122 32452	47pF 5%	63V	2888	R4822	124 22826	10µF	16V
2740	R4822	124 41576	2,2µF 20%	50V	2889	R4822	126 10002	100nF20%Y5V	25V
2741	R4822	126 10002	100nF20%Y5V	25V					
2742	R4822	124 23055	22µF20%	16V					
2743	R4822	126 13061	220nF20% Y5V	25V					
2744	R4822	124 40786	2,2µF20%	63V					
2745	R4822	122 33575	220pF 5%	50V					
2746	R4822	126 10002	100nF20%Y5V	25V					
2747	R4822	126 10002	100nF20%Y5V	25V					
2748	R4822	126 12945	8,2pF 2%						
2749	R4822	126 13061	220nF20% Y5V	25V					
2750	R4822	124 40786	2,2µF20%	63V					
2752	R4822	126 13061	220nF20% Y5V	25V					
2780	R4822	124 22826	10µF	16V					
2781	R4822	122 33177	10nF 20% X7R	50V					

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RESISTORS

3000	R4822 051 10102	1K00	2%	0,25W	
3001	R4822 051 10102	1K00	2%	0,25W	
3002	R4822 116 52228	680E	5%	0,5W	
3003	R4822 116 52228	680E	5%	0,5W	
3004	R4822 116 52228	680E	5%	0,5W	
3005	R4822 116 52303	8K2	5%	0,5W	
3006	R4822 116 52238	12K	5%	0,5W	
3007	R4822 100 12157	10K	30%	POT	
3008	R4822 116 83883	470E	5%	0,5W	
3010	R4822 051 10102	1K00	2%	0,25W	
3011	R4822 117 11449	2K2	1%	0,1W	
3012	R4822 117 11449	2K2	1%	0,1W	
3013	R4822 117 11721	1K3	2%	0,1W	
3014	R4822 116 83903	4K7	2%	0,1W	
3015	R4822 051 10102	1K00	2%	0,25W	
3016	R4822 051 20822	8K20	5%	0,1W	
3017	R4822 116 52249	1K8	5%	0,5W	
3018	R4822 116 83883	470E	5%	0,5W	
3019	R4822 051 20562	5K60	5%	0,1W	
3020	R4822 051 20224	220K0	5%	0,1W	
3021	R4822 050 11002	1K00	1%	0,4W	
3022	R4822 050 11002	1K00	1%	0,4W	
3024	R4822 051 20822	8K20	1%	0,1W	
3024	R4822 051 20682	6K80	5%	0,1W	for 2/x
3027	R4822 116 52264	27K	5%	0,5W	
3028	R4822 051 20562	5K60	5%	0,1W	for 1 scart
3028	R4822 051 20332	3K30	5%	0,1W	for 2 scart
3029	R4822 051 20225	2M20	5%	0,1W	
3030	R4822 116 52256	2K2	5%	0,5W	
3031	R4822 116 52256	2K2	5%	0,5W	
3032	R4822 117 11449	2K2	1%	0,1W	
3033	R4822 117 10965	18K	5%	0,5W	
3034	R4822 051 20153	15K00	5%	0,1W	
3035	R4822 117 11449	2K2	1%	0,1W	
3036	R4822 051 20471	470R0	5%	0,1W	
3045	R4822 116 83876	270E	5%	0,5W	
3046	R4822 050 11002	1K00	1%	0,4W	
3048	R4822 116 83884	47K	5%	0,5W	
3050	R4822 116 83872	220R	5%	0,5W	for mstd
3050	R4822 116 52175	100E	5%	0,5W	
3051	R4822 051 20224	220K0	5%	0,1W	
3052	R4822 116 52175	100E	5%	0,5W	
3054	R4822 117 11449	2K2	1%	0,1W	
3055	R4822 117 10361	680R	1%	0,1W	
3080	R4822 051 20568	5R60	5%	0,1W	
3081	R4822 051 20561	560R0	5%	0,1W	
3082	R4822 051 20471	470R0	5%	0,1W	
3083	R4822 051 20472	4K70	5%	0,1W	
3084	R4822 051 20472	4K70	5%	0,1W	
3085	R4822 051 20112	1K10	5%	0,1W	
3086	R4822 051 20331	330R0	5%	0,1W	
3087	R4822 116 52234	100K	5%	0,5W	
3089	R4822 051 20561	560R0	5%	0,1W	
3100	R4822 116 52219	330E	5%	0,5W	
3101	R4822 051 20332	3K30	5%	0,1W	
3102	R4822 116 52231	820E	5%	0,5W	
3103	R4822 116 52228	680E	5%	0,5W	
3104	R4822 050 11002	1K00	1%	0,4W	
3105	R4822 116 52222	390E	5%	0,5W	
3106	R4822 116 52226	560E	5%	0,5W	
3107	R4822 050 11002	1K00	1%	0,4W	
3109	R4822 116 52195	47E	5%	0,5W	
3110	R4822 116 52207	1K2	5%	0,5W	
3111	R4822 116 52256	2K2	5%	0,5W	
3112	R4822 051 10102	1K00	2%	0,25W	
3113	R4822 051 20561	560R0	5%	0,1W	
3114	R4822 117 10833	10K	1%	0,1W	
3115	R4822 116 52251	18K	5%	0,5W	
3116	R4822 051 10102	1K00	2%	0,25W	
3117	R4822 116 52256	2K2	5%	0,5W	
3118	R4822 116 52283	4K7	5%	0,5W	
3119	R4822 116 52271	33K	5%	0,5W	
3120	R4822 116 52303	8K20	5%	0,5W	
3121	R4822 051 20182	1K80	5%	0,1W	
3122	R4822 051 10102	1K00	2%	0,25W	
3123	R4822 116 83864	10K	5%	0,5W	
3124	R4822 116 52243	1K5	5%	0,5W	
3125	R4822 117 11449	2K2	1%	0,1W	
3126	R4822 051 10102	1K00	2%	0,25W	
3127	R4822 117 11449	2K2	1%	0,1W	
3128	R4822 117 11449	2K2	1%	0,1W	
3129	R4822 051 10102	1K00	2%	0,25W	
3134	R4822 117 11503	220R	1%	0,1W	
3135	R4822 117 11503	220R	1%	0,1W	
3151	R4822 051 20104	100K00	5%	0,1W	
3152	R4822 051 20393	39K00	5%	0,1W	
3153	R4822 117 10833	10K	1%	0,1W	
3154	R4822 117 12605	27K	1%	0,1W	for 4/2
3154	R4822 117 10354	22K	1%	0,1W	for 4/0
3154	R4822 117 12141	14K	1%	0,1W	for 3/0
3154	R4822 117 12342	18K	1%	0,1W	for 2/x
3155	R4822 117 11383	12K	1%	0,1W	for 2/x
3155	R4822 051 20153	15K00	5%	0,1W	for 4/x
3156	R4822 051 20331	330R00	5%	0,1W	
3157	R4822 051 20331	330R00	5%	0,1W	
3158	R4822 051 20472	4K70	5%	0,1W	
3159	R4822 100 12157	10K	30%	POT	
3160	R4822 100 12157	10K	30%	POT	
3162	R4822 051 20008	OR00 JUMP (0805)			
3163	R4822 051 20008	OR00 JUMP (0805)			
3164	R4822 051 20008	OR00 JUMP (0805)			
3165	R4822 051 20008	OR00 JUMP (0805)			
3228	R4822 116 83872	220E	5%	0,5W	
3229	R4822 117 10833	10K	1%	0,1W	
3230	R4822 117 10833	10K	1%	0,1W	
3231	R4822 116 52175	100E	5%	0,5W	
3232	R4822 051 20101	100E	5%	0,5W	
3233	R4822 116 83864	10K	5%	0,5W	
3234	R4822 116 83864	10K	5%	0,5W	
3235	R4822 116 83864	10K	5%	0,5W	
3238	R4822 116 83864	10K	5%	0,5W	
3240	R4822 116 52297	68K	5%	0,5W	
3241	R4822 051 20683	68K00	5%	0,1W	
3242	R4822 051 20683	68K00	5%	0,1W	
3243	R4822 051 20683	68K00	5%	0,1W	
3244	R4822 050 11002	1K00	1%	0,4W	
3245	R4822 051 20183	18K00	5%	0,1W	
3250	R4822 051 20153	15K00	5%	0,1W	
3252▲	R4822 117 11593	22E	5%		
3253	R4822 050 24708	4R70	1%	0,6W	
3254	R4822 050 24708	4R70	1%	0,6W	
3265	R4822 116 83864	10K	5%	0,5W	
3270	R4822 117 11503	220R	1%	0,1W	
3271	R4822 117 11503	220R	1%	0,1W	
3273	R4822 117 11503	220R	1%	0,1W	
3297	R4822 051 20562	5K60	5%	0,1W	
3300	R4822 116 52175	100E	5%	0,5W	
3301	R4822 116 52175	100E	5%	0,5W	
3302	R4822 116 52175	100E	5%	0,5W	
3303	R4822 116 83883	470E	5%	0,5W	
3304	R4822 050 11002	1K00	1%	0,4W	
3305	R4822 116 52283	4K7	5%	0,5W	
3312	R4822 116 52249	1K8	5%	0,5W	
3313	R4822 116 83884	47K	5%	0,5W	
3350	R4822 117 10833	10K	1%	0,1W	
3351	R4822 051 20223	22K00	5%	0,1W	
3352	R4822 051 20562	5K60	5%	0,1W	
3353	R4822 117 10833	10K	1%	0,1W	
3354	R4822 117 11449	2K2	1%	0,1W	
3355	R4822 051 20822	8K20	5%	0,1W	
3356	R4822 051 20223	22K00	5%	0,1W	
3357	R4822 051 20472	4K70	5%	0,1W	
3358	R4822 117 11149	82K	1%	0,1W	
3359	R4822 051 20471	470R00	5%	0,1W	
3360	R4822 051 20689	68R00	5%	0,1W	
3361▲	R4822 052 10479	47R00	5%	0,33W	
3362	R4822 051 20472	4K70	5%	0,1W	
3363	R4822 050 21208	1R20	1%	0,6W	

Motherboard PAL, SEÇAM, MONO, STEREO

3365	R4822 116 83874	220K	5%	0,5W	3453	R4822 116 52283	4K7	5%	0,5W
3369	R4822 116 83882	39K	5%	0,5W	3454	R4822 116 52283	4K7	5%	0,5W
3370	R4822 116 83882	39K	5%	0,5W	3455	R4822 116 52283	4K7	5%	0,5W
3374	R4822 051 20271	270R00	5%	0,1W	3456	R4822 117 10833	10K	1%	0,1W
3375	R4822 051 10102	1K00	2%	0,25W	3457	R4822 050 11002	1K00	1%	0,4W
3376	R4822 051 20008	0R00 JUMP (0805)			3458	R4822 051 20223	22K00	5%	0,1W
3377	R4822 051 20472	4K70	5%	0,1W	3459	R4822 116 83876	270E	5%	0,5W
3378	R4822 051 20272	2K70	5%	0,1W	3460	R4822 116 83884	47K	5%	0,5W
3379	R4822 101 11383	470E	30%	POT	3461	R4822 051 20472	4K70	5%	0,1W
3380	R4822 051 10102	1K00	2%	0,25W	3462	R4822 051 20563	56K00	5%	0,1W
3381	R4822 051 20104	100K00	5%	0,1W	3463	R4822 116 52283	4K7	5%	0,5W
3382	R4822 117 10833	10K	1%	0,1W	3464	R4822 116 52256	2K2	5%	0,5W
3383	R4822 116 83874	220K	5%	0,5W	3466	R4822 116 83864	10K	5%	0,5W
3384▲	R4822 052 10101	100R00	5%	0,33W	3469	R4822 116 83876	270E	5%	0,5W
3385	R4822 116 52269	3K30	1%	0,4W	3470	R4822 116 52264	27K	5%	0,5W
3386	R4822 116 52219	330R00	1%	0,4W	3471	R4822 116 52222	390E	5%	0,5W
3387	R4822 116 52226	560R00	5%	0,5W	3472	R4822 116 52264	27K	5%	0,5W
3387	R4822 116 83883	470R00	5%	0,5W for stereo	3473	R4822 116 52222	390E	5%	0,5W
3388	R4822 116 52226	560R00	5%	0,5W	3474	R4822 116 83864	10K	5%	0,5W
3388	R4822 116 83883	470R00	5%	0,5W for stereo	3475	R4822 116 52289	5K6	5%	0,5W
3389	R4822 117 11449	2K2	1%	0,1W	3476	R4822 116 52222	390E	5%	0,5W
3390	R4822 051 20224	220K00	5%	0,1W	3477	R4822 116 52283	4K7	5%	0,5W
3391	R4822 051 20224	220K00	5%	0,1W	3478	R4822 051 20104	100K00	5%	0,1W
3392▲	R4822 053 21335	3M30	5%	0,5W	3479	R4822 116 52283	4K7	5%	0,5W
3393▲	R4822 053 21335	3M30	5%	0,5W	3480	R4822 116 83884	47K	5%	0,5W
3394	R4822 116 52256	2K2	5%	0,5W	3481	R4822 116 52256	2K2	5%	0,5W
3395	R4822 116 52257	22K	5%	0,5W	3482	R4822 116 52257	22K	5%	0,5W
3396	R4822 116 52257	22K	5%	0,5W	3483	R4822 116 83864	10K	5%	0,5W
3397	R4822 051 20101	100E	5%	0,5W	3484	R4822 116 52283	4K7	5%	0,5W
3398	R4822 051 20101	100E	5%	0,5W	3488	R4822 051 20471	470R00	5%	0,1W
3400	R4822 116 83864	10K	5%	0,5W	3489	R4822 116 52283	4K7	5%	0,5W
3401	R4822 116 83864	10K	5%	0,5W	3490	R4822 116 83872	220R	5%	0,5W
3402	R4822 050 11002	1K00	1%	0,4W	3491	R4822 116 83884	47K	5%	0,5W
3403	R4822 116 52256	2K2	5%	0,5W	3492	R4822 051 20473	47K00	5%	0,1W
3404	R4822 116 83864	10K	5%	0,5W	3493	R4822 051 20225	2M20	5%	0,1W
3405	R4822 116 83876	270E	5%	0,5W	3494	R4822 051 20104	100K00	5%	0,1W
3406	R4822 116 83864	10K	5%	0,5W	3495	R4822 051 20104	100K00	5%	0,1W
3407	R4822 116 83864	10K	5%	0,5W	3496	R4822 051 20472	4K70	5%	0,1W
3408	R4822 116 52256	2K2	5%	0,5W	3497	R4822 051 20472	4K70	5%	0,1W
3410	R4822 051 20472	4K70	5%	0,1W	3498	R4822 051 20472	4K70	5%	0,1W
3411	R4822 116 83864	10K	5%	0,5W	3499	R4822 116 52283	4K7	5%	0,5W
3412	R4822 116 52249	1K8	5%	0,5W	3501	R4822 051 10102	1K00	2%	0,25W
3413	R4822 050 11002	1K00	1%	0,4W	3502	R4822 051 10102	1K00	2%	0,25W
3414▲	R4822 052 10109	10R00	5%	0,33W	3503	R4822 051 10102	1K00	2%	0,25W
3415▲	R4822 052 10109	10R00	5%	0,33W	3505	R4822 051 20759	75R00	5%	0,1W
3416	R4822 116 52257	22K	5%	0,5W	3509	R4822 051 20008	0R00 JUMP (0805)		
3417	R4822 116 52283	4K7	5%	0,5W	3510	R4822 051 20008	0R00 JUMP (0805)		
3418	R4822 050 11002	1K00	1%	0,4W	3512	R4822 051 20682	6K80	5%	0,1W
3419	R4822 051 20472	4K70	5%	0,1W	3513	R4822 116 83872	220E	5%	0,5W
3420	R4822 117 10833	10K	1%	0,1W	3514	R4822 116 83961	6K80	5%	
3421	R4822 116 83864	10K	5%	0,5W	3515	R4822 051 20682	6K80	5%	0,1W
3423	R4822 116 83876	270R	5%	0,5W	3516	R4822 117 11503	220R	1%	0,1W
3424	R4822 116 52256	2K2	5%	0,5W	3517	R4822 116 52234	100K	5%	0,5W
3430	R4822 116 52249	1K8	5%	0,5W	3518	R4822 116 52234	100K	5%	0,5W
3431	R4822 116 52276	3K9	5%	0,5W	3519	R4822 051 20822	8K20	5%	0,1W
3432	R4822 116 83864	10K	5%	0,5W	3520	R4822 117 10353	150R	1%	0,1W
3433	R4822 116 52256	2K2	5%	0,5W	3521	R4822 116 83961	6K8	5%	
3434	R4822 116 52257	22K	5%	0,5W	3522	R4822 051 20821	820R00	5%	0,1W
3435	R4822 116 83864	10K	5%	0,5W	3523	R4822 051 20008	0R00 JUMP (0805)		
3436	R4822 050 11002	1K00	1%	0,4W	3524	R4822 051 20759	75R00	5%	0,1W
3437	R4822 116 83961	6K8	5%	0,5W	3525	R4822 051 20822	8K20	5%	0,1W
3438	R4822 051 20472	4K70	5%	0,1W	3526	R4822 117 11449	2K20	1%	0,1W
3440▲	R4822 052 10228	2R20	5%	0,33W	3527	R4822 051 20472	4K70	5%	0,1W
3441	R4822 116 80176	1E	5%	0,5W	3528	R4822 116 83884	47K	5%	0,5W
3442	R4822 116 52304	82K	5%	0,5W	3529	R4822 051 20759	75R00	5%	0,1W
3443	R4822 116 52257	22K	5%	0,5W	3530	R4822 051 20472	4K70	5%	0,1W
3444	R4822 116 52276	3K9	5%	0,5W	3531	R4822 051 20101	100R00	5%	0,1W
3445	R4822 116 83864	10K	5%	0,5W	3532	R4822 051 20101	100R00	5%	0,1W
3446	R4822 116 52257	22K	5%	0,5W	3533	R4822 051 20759	75R00	5%	0,1W
3447	R4822 116 52257	22K	5%	0,5W	3534	R4822 051 20008	0R00 JUMP (0805)		
3448	R4822 116 83864	10K	5%	0,5W	3535	R4822 117 11503	220E	1%	0,1W
3449	R4822 117 10833	10K	1%	0,1W	3536	R4822 117 11503	220E	1%	0,1W
3450	R4822 116 52256	2K2	5%	0,5W	3537	R4822 116 83872	220E	5%	0,5W
3451	R4822 116 83864	10K	5%	0,5W	3538	R4822 116 83961	6K8	5%	
3452	R4822 116 52249	1K8	5%	0,5W	3539	R4822 116 83961	6K8	5%	

Motherboard PAL, SECAM, MONO, STEREO

3911	R4822 051 20008	OR00 JUMP (0805)
3912	R4822 051 20008	OR00 JUMP (0805)
3913	R4822 051 20008	OR00 JUMP (0805)
3915	R4822 051 20008	OR00 JUMP (0805)
3916	R4822 051 20008	OR00 JUMP (0805)
3917	R4822 051 20008	OR00 JUMP (0805)
3918	R4822 051 20008	OR00 JUMP (0805)
3919	R4822 051 20008	OR00 JUMP (0805)
3922	R4822 051 20008	OR00 JUMP (0805)
3923	R4822 051 20008	OR00 JUMP (0805)
3925	R4822 051 20008	OR00 JUMP (0805)
3926	R4822 051 20008	OR00 JUMP (0805)
3927	R4822 051 20008	OR00 JUMP (0805)
3928	R4822 051 20008	OR00 JUMP (0805)
3929	R4822 051 20008	OR00 JUMP (0805)
3930	R4822 051 20008	OR00 JUMP (0805)
3931	R4822 051 20008	OR00 JUMP (0805)
3941	R4822 051 20008	OR00 JUMP (0805)
3942	R4822 051 20008	OR00 JUMP (0805)
3943	R4822 051 20008	OR00 JUMP (0805)
3944	R4822 051 20008	OR00 JUMP (0805)
3945	R4822 051 20008	OR00 JUMP (0805)
3946	R4822 051 20008	OR00 JUMP (0805)
3947	R4822 051 20008	OR00 JUMP (0805)
3950	R4822 051 20008	OR00 JUMP (0805)
3951	R4822 051 20008	OR00 JUMP (0805)
3956	R4822 051 20008	OR00 JUMP (0805)
3960	R4822 051 20008	OR00 JUMP (0805)
3961	R4822 051 20008	OR00 JUMP (0805)
3962	R4822 051 20008	OR00 JUMP (0805)
3965	R4822 051 20008	OR00 JUMP (0805)
3966	R4822 051 20008	OR00 JUMP (0805)
3967	R4822 051 20008	OR00 JUMP (0805)
3970	R4822 051 20008	OR00 JUMP (0805)
3972	R4822 051 20008	OR00 JUMP (0805)
3973	R4822 051 20008	OR00 JUMP (0805)
3984	R4822 051 20008	OR00 JUMP (0805)
3985	R4822 051 20008	OR00 JUMP (0805)
3986	R4822 051 20008	OR00 JUMP (0805)
3988	R4822 051 20008	OR00 JUMP (0805)
3989	R4822 051 20008	OR00 JUMP (0805)
3990	R4822 051 20008	OR00 JUMP (0805)
3998	R4822 051 20008	OR00 JUMP (0805)
3999	R4822 051 20008	OR00 JUMP (0805)
4523	R4822 117 10833	10K 1% 0,1W
4563	R4822 117 10833	10K 1% 0,1W
4580	R4822 117 12708	39K00 5% 0,1W
4591	R4822 117 12708	39K00 5% 0,1W
4653	R4822 051 20182	1K80 5% 0,1W
4659	R4822 051 20182	1K80 5% 0,1W
4665	R4822 051 20472	4K70 5% 0,1W for UP
4671	R4822 051 20472	4K70 5% 0,1W for UP
4683	R4822 051 20008	OR00 JUMP (0805)
4684	R4822 117 12708	39K00 5% 0,1W for REC
4745	R4822 051 20008	OR00 JUMP (0805) for ST/EJ
4752	R4822 051 20472	4K70 5% 0,1W
4758	R4822 117 10965	18K00 5% 0,1W for PLAY
4764	R4822 117 10833	10K 1% 0,1W for WIND
4764	R4822 117 10965	18K00 5% 0,1W for PLAY
4772	R4822 117 10833	10K 1% 0,1W for WIND
4772	R4822 051 20472	4K70 5% 0,1W for REW

COILS

5000	R4822 157 11234	10μH 5%
5001	R4822 152 20677	10μH
5002	R4822 152 20677	10μH
5004	R4822 157 11142	47μH 5%
5005	R4822 157 11145	150μH 5%
5020	R4822 157 10972	15μH 5%
5026	R4822 157 11228	LAN02TB101J
5036	R4822 157 11149	56μH 5%
5080▲	R4822 157 11226	47μH 5%
5100	R4822 157 63661	FIL LC VAR 4M286 5VS

5101	R4822 157 10972	15μH 5%
5102	R4822 157 11149	56μH 5%
5103	R4822 157 63661	FIL LC VAR 4M286 5VS
5104	R4822 157 11227	150μH 5%
5105	R4822 157 11227	150μH 5%
5106	R4822 157 11151	330μH 5%
5107	R4822 157 11228	LAN02TB101J
5108	R4822 157 63659	FIL LC VAR 1G072 5V2
5111	R4822 157 11229	15μH 5%
5112	R4822 157 10972	15μH 5%
5113	R4822 157 11145	150μH 5%
5114	R4822 157 10972	15μH 5%
5115	R4822 157 63717	6,8μH
5130	R4822 157 71206	BLM21A10PT
5150▲	R4822 157 53906	47μH
5200	R4822 152 20677	10μH
5300▲	R4822 157 53005	0μH33 20%
5350	R4822 157 51462	10μH
5351	R4822 157 71461	22μH 10%
5352▲	R4822 157 10454	LINE FILTER
5353▲	R4822 146 10786	SRW32ES-E01(TRAFO)
5353/80	R4822 466 11688	ISOL PLATE (TRAFO 5353)
5354	R4822 157 51462	10μH
5355▲	R4822 157 53005	0μH33 20%
5358	R4822 157 60147	2,2μH
5361	R4822 157 52286	22μH
5368	R4822 157 60147	2,2μH
5400	R4822 152 20677	10μH
5402	R4822 152 20677	10μH
5601	R4822 157 11249	10.000UF 5%
5602	R4822 157 11151	330μH 5%
5603	R4822 157 53531	COIL
5604	R4822 157 11251	3,3μH 10%
5605	R4822 157 71206	BLM21A10PT
5700	R4822 157 71206	BLM21A10PT
5702	R4822 152 20677	10μH
5703	R4822 152 20677	10μH
5705	R4822 152 20677	10μH
5720	R4822 157 11231	LAN02TB1R0J
5721	R4822 157 70877	H292ONS-6785NK
5725	R4822 157 70877	H292ONS-6785NK
5726	R4822 051 20008	OR00 JUMP (0805)
5740	R4822 157 11232	12μH 5% for SECAM LL'
5740	R4822 157 11229	15μH 5% for PAL
5741	R4822 157 11223	39μH 5%
5780	R4822 157 70038	10μH 10%
5800	R4822 157 11233	LAN02TB330J
5801	R4822 152 20677	10μH
5810	R4822 157 11234	10μH 5%
5831	R4822 157 11235	LAN02TB220J

DIODES

6100	R4822 130 32778	1SS133
6135	R4822 130 34197	BZX79-B12 (MTZJ12C)
6250	R4822 130 34197	BZX79-B12
6299	R4822 130 10869	RB441
6350	R4822 130 30842	BAV21
6351	R4822 130 31983	BAT85
6352	R4822 130 42488	BYD33D
6353	R4822 130 42488	BYD33D
6354	R4822 130 80858	1N5062
6355	R4822 130 42488	BYD33D
6356	R4822 130 42488	BYD33D
6357	R4822 130 10871	DIODE RECT SBYV2
6358	R5322 130 31938	BYV27-200
6359	R4822 130 32715	SB340 for stereo
6359	R4822 130 83909	BYW98-200RL for mono
6360	R4822 130 83147	DF06M
6371	R4822 130 42488	BYD33D
6372	R4822 130 34142	BZX79-B33
6460	R4822 130 10231	SET: 2x Sens + 1x Led
6500	R4822 130 34197	BZX79-B12
6501	R4822 130 34197	BZX79-B12

Motherboard PAL, SECAM, MONO, STEREO

6502	R4822 130 34197	BZX79-B12
6509	R4822 130 34197	BZX79-B12
6510	R4822 130 34197	BZX79-B12
6511	R4822 130 10884	MTZJ18C
6516	R4822 130 34278	BZX79-B6V8
6530	R4822 130 10654	BAT254
6601	R4822 130 30861	BZX79-B7V5
6760	R4822 130 10414	BA792
6761	R4822 130 10414	BA792

TRANSISTORS & IC's

7000	R4822 130 42353	BSF19-F2
7001	R4822 130 10872	MMUN2112LT1
7002	R4822 130 60511	BC847B
7003	R4822 209 15526	LC89980M
7004	R4822 130 42353	BSF19-F2
7005	R5322 130 60508	BC857B
7006	R4822 130 60511	BC847B
7007	R4822 209 15527	LA71525M
7008	R5322 130 60508	BC857B
7009	R4822 130 10872	MMUN2112LT1
7011	R4822 130 60511	BC847B
7020	R4822 130 63732	MMUN2212
7021	R5322 130 60508	BC857B
7080	R4822 209 90421	STV5712
7085	R4822 130 60511	BC847B
7100	R4822 130 60511	BC847B
7101	R4822 130 60511	BC847B
7102	R4822 209 73852	PMBT2369
7103	R4822 130 60511	BC847B
7104	R4822 130 63732	MMUN2212
7105	R5322 130 60508	BC857B
7106	R4822 130 60511	BC847B
7110	R4822 209 90189	TDA4722/V2
7150	R4822 209 13121	STV5742
7151	R4822 209 15548	STV5744AD
7153	R4822 130 60511	BC847B
7201	R4822 209 15516	TMP87CS71F QDCE1-xP
7201	R4822 209 15517	TMP87CS71F QDCE2-xU
7201	R4822 209 15519	TMP87CS71F QDCH2-xU
7202	R4822 135 00115	25U39113SA (Display)
7203	R4822 212 30842	TSOP1736 (IR-receiver)
7231	R4822 130 63732	MMUN2212
7300	R4822 209 13126	TDA5241
7301	R4822 130 10872	MMUN2112LT1
7350▲	R4822 130 63794	STP3NA60
7350/2	R4822 255 10387	COOLING BLOCK (HEAT SINK)
7350/3	R4822 502 14482	SCREW M3x6
7351▲	R4822 209 32126	SOC1012T (OPTO)
7352	R4822 209 81397	TL431CLpST
7353	R4822 130 10214	STD17N06
7354	R4822 209 90025	MC44603P
7356	R4822 130 60511	BC847B
7357	R4822 130 10214	STD17N06
7358	R4822 130 40995	BD438
7359	R4822 130 60511	BC847B
7400	R4822 209 15529	TMP91C642AF QTDP2-xU
7420	R4822 209 90313	L4812CV for stereo
7420	R4822 209 81726	MC7812CT for mono
7440	R4822 209 30146	L2722
7455	R4822 130 10872	MMUN2112LT1
7456	R4822 130 60511	BC847B
7457	R4822 130 60511	BC847B
7458	R4822 130 60511	BC847B
7460	R4822 209 30836	SAA1310/N2
7461	R4822 130 10231	SET: 2x Sens + 1x Led
7462	R4822 130 10231	SET: 2x Sens + 1x Led
7463	R4822 130 41344	BC337-40
7464	R4822 130 10233	TCRT5000L
7465	R4822 130 10233	TCRT5000L
7466	R4822 130 10234	TCST1030L
7467	R4822 130 60511	BC847B
7468	R4822 130 60511	BC847B

7469	R4822 130 60511	BC847B
7500	R4822 130 60511	BC847B
7501	R5322 130 60508	BC857B
7502	R4822 130 60511	BC847B
7505	R4822 130 63732	MMUN2212
7506	R4822 130 10872	MMUN2112LT1
7507	R4822 209 90016	STV6400
7510	R5322 130 42136	BC848C
7511	R4822 130 42615	BC817-40
7512	R5322 130 42136	BC848C
7513	R5322 209 14481	HEF4053BT
7513	R5322 209 14481	HEF4053BT
7540	R4822 209 15504	SDA5650 for VPS/PDC
7540	R4822 209 15958	SDA5642.6 for VPS only
7600	R4822 130 60373	BC856B
7601	R5322 130 60159	BC846B
7602	R5322 130 60159	BC846B
7603	R4822 130 60511	BC847B
7604	R4822 130 41715	BC328-40
7609	R4822 130 42615	BC817-40
7720	R4822 209 90288	TDA9800T/V3
7721	R4822 209 90018	TDA9812T for SECAM mono
7721	R4822 209 90431	TDA9813T/V2 for PAL FM stereo
7721	R4822 209 90452	TDA9814T/V3 for SECAM stereo
7722	R5322 209 14481	HEF4053BT
7723	R5322 130 60508	BC857B
7724	R5322 130 42136	BC848C
7725	R4822 130 60511	BC847B
7726	R4822 130 63732	MMUN2212
7728	R4822 130 10802	BSS138
7729	R4822 130 60511	BC847B
7730	R4822 130 60511	BC847B
7731	R4822 130 63732	MMUN2212
7780	R4822 209 32501	TDA9840T/V2
7800	R4822 209 15524	LC74781-9663
7810	R4822 130 42353	BSF19-F2
7850	R4822 209 15525	TDA9604H/N1
7851	R4822 130 60511	BC847B
7852	R4822 130 60511	BC847B
7860	R4822 209 60177	LM339D
7890	R4822 209 33113	ST24C08CB6 for GEMSTAR
7890	R4822 209 30953	ST24C04CB6

QNIC

MISCELLANEOUS

1700▲	R4822 071 52501	Fuse	250mA
1710	R4822 242 10433	Crystal	8,192 MHz
1970	R4822 265 10943	CONN	11P

CAPACITORS

2700	R4822 122 33172	390pF	5%	50V
2701	R5322 122 32448	10pF	5%	50V
2703	R4822 126 10002	100nF	20%	25V
2704	R4822 122 33575	220pF	5%	50V
2705	R4822 124 22826	10µF		16V
2706	R4822 124 22826	10µF		16V
2707	R4822 126 13061	220nF	20%	25V
2708	R5322 122 32654	22nF	10%	63V
2709	R5322 122 32531	100pF	5%	50V
2710	R5322 122 32531	100pF	5%	50V
2714	R4822 124 23027	47µF		6.3V
2716	R4822 124 23027	47µF		6.3V
2718	R4822 126 10002	100nF	20%	25V
2719	R4822 122 33175	2,2nF	20%	50V
2720	R4822 122 33175	2,2nF	20%	50V
2721	R4822 126 13061	220nF	20%	25V
2722	R4822 122 33175	2,2nF	20%	50V
2723	R4822 122 33175	2,2nF	20%	50V
2725	R4822 124 23053	1µF	20%	63V
2726	R4822 122 33797	47nF	20%	50V
2727	R4822 124 23027	47µF		6.3V
2728	R4822 126 10002	100nF	20%	25V
2729	R4822 124 22826	10µF		16V
2731	R4822 124 22826	10µF		16V
2732	R4822 126 10002	100nF	20%	25V
2733	R4822 124 23027	47µF		6.3V
2734	R5322 122 32654	22nF	10%	63V
2736	R4822 126 10002	100nF	20%	25V
2752	R4822 126 13061	220nF	20%	25V
2753	R4822 126 13061	220nF	20%	25V

RESISTORS

3700	R4822 051 10102	1K00	2%	0,25W
3701	R4822 051 20101	100R00	5%	0,1W
3702	R4822 051 20223	22K00	5%	0,1W
3703	R4822 051 20104	100K00	5%	0,1W
3704	R4822 117 11449	2K2	1%	0,1W
3705	R4822 051 20392	3K90	5%	0,1W
3707	R4822 116 52276	3K9	5%	0,5W
3708	R4822 117 11449	2K2	1%	0,1W
3710	R4822 051 20334	330K00	5%	0,1W
3711	R4822 116 52175	100E	5%	0,5W
3712	R4822 116 52175	100E	5%	0,5W
3713	R4822 051 20182	1K80	5%	0,1W
3714	R4822 051 20333	33K00	5%	0,1W
3715	R4822 117 10833	10K	1%	0,1W
3720	R4822 117 10833	10K	1%	0,1W
3721	R4822 117 10833	10K	1%	0,1W
3722	R4822 117 10833	10K	1%	0,1W
3723	R4822 117 10833	10K	1%	0,1W
3790	R4822 051 20008	0R00	JUMP (0805)	
3792	R4822 051 20008	0R00	JUMP (0805)	
3793	R4822 051 20008	0R00	JUMP (0805)	
3794	R4822 051 20008	0R00	JUMP (0805)	
3795	R4822 051 20008	0R00	JUMP (0805)	
3796	R4822 051 20008	0R00	JUMP (0805)	
3797	R4822 051 20008	0R00	JUMP (0805)	

COILS

5700	R4822 157 63717	6,8µH
5703	R4822 157 71206	BLM21A10
5704	R4822 157 71206	BLM21A10
5705	R4822 157 71206	BLM21A10
5706	R4822 157 71206	BLM21A10
5707	R4822 157 71206	BLM21A10

DIODES

6700	R4822 130 10652	BB149
6701	R4822 130 83757	BAS216

TRANSISTORS & IC's

7700	R4822 209 14809	SAA7284Z
7701	R5322 209 61487	LM358N

CABLES & SUB MODULS

CABLES

8001	R4822 320 11889	FFC TD1-1961
8002	R4822 323 10374	CABLE TREE TD2-1962
8003	R4822 320 11891	FFC TD3-1944
8004	R4822 320 11892	FFC TD4-1930
8006	R4822 320 12343	FFC 1103-1711
8007	R4822 320 11891	FFC 1710-1750
8008	R4822 323 10373	ESD-GND CONN
	▲ R4822 321 10886	MAINS CORD (+FUSE) for UK
	▲ R4822 321 10249	MAINS CORD
	R4822 320 50377	ANTENNA cable
	R4822 321 63002	SCART cable

SUB MODULS

R4822 214 12238	CINCH print rear
R3103 198 69940	QBOC1 Cinch print front

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