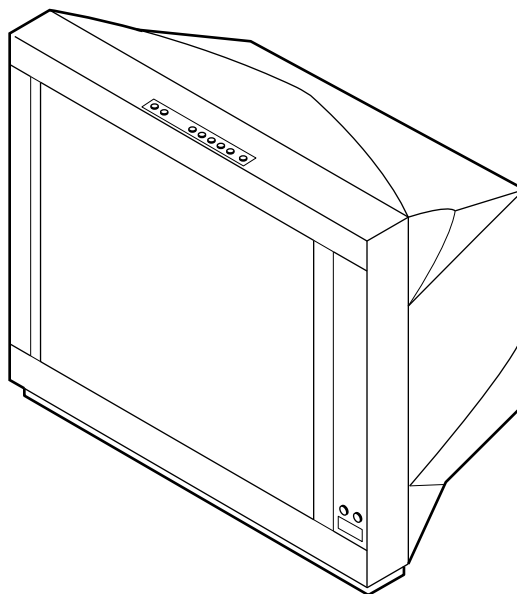
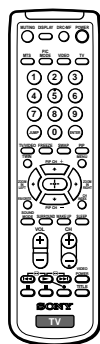


SERVICE MANUAL

AG3 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KV-ES34K90	RM-959	KOREAN	SCC-P41B-A				



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

		Note
Power requirements	110-220 V AC, 60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	M	
Color system	NTSC3.58	
Stereo/Bilingual system	Korean Stereo	
Channel coverage	VHF: 2 ch to 13 ch / UHF: 14 ch to 69 ch / CATV: 1 ch to 125 ch	
⌚ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W	10% distortion
Number of terminal		
Video	Input: 4 Output: 1	Phono jacks; 1 V _{p-p} , 75 ohms
Audio	Input: 4 Output: 1	Phono jacks; 500 mV _{rms}
S Video	Input: 2	Y : 1 V _{p-p} , 75 ohms, unbalanced, sync negative C : 0.286 V _{p-p} , 75 ohms
Component Video (DVD) IN	Input: 1	Phono jacks Y : 1 V _{p-p} , 75 ohms, sync negative C _B : 0.7 V _{p-p} , 75 ohms C _R : 0.7 V _{p-p} , 75 ohms Audio : 500 mV _{rms}
DIGITAL IN	Input: 1	Phono jack; 0.5 V _{p-p} , 75 ohms
🎧 (Headphones)	Output: 1	Stereo minijack
Picture tube	34 inch	
Tube size (cm)	86	Measured diagonally
Screen size (cm)	80	Measured diagonally
Dimension (w/h/d, mm)	859 x 650 x 573	
Mass (kg)	84	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
	SELF DIAGNOSIS FUNCTION	4			
1. GENERAL		8	6. DIAGRAMS		
2. DISASSEMBLY			6-1. Block Diagram	67	
2-1. Rear Cover Removal		32	6-2. Frame Schematic Diagram	85	
2-2. Speaker Box Removal		32	6-3. Circuit Boards Location	88	
2-3. H2 Board Removal		32	6-4. Schematic Diagrams and Printed Wiring Boards ..	88	
2-4. Chassis Assy Removal		33	(1) Schematic Diagram of A Board	93	
2-5. Service Position		33	(2) Schematic Diagram of D Board	97	
2-6. DH Board Removal		33	(3) Schematic Diagram D1 Board	105	
2-7. J Board Removal		33	(4) Schematic Diagrams of C, F1 and VM Boards	113	
2-8. B3, D1 and E Boards Removal		34	(5) Schematic Diagram of E Board	117	
2-9. A and D Boards Removal		34	(6) Schematic Diagrams of H1, H2 and H3 Boards	124	
2-10. H1 Board Removal		34	(7) Schematic Diagram of B3 (1/6) Board	129	
2-11. F2 Board Removal		34	(8) Schematic Diagram of B3 (2/6) Board	133	
2-12. Demagnetization Coil Removal		35	(9) Schematic Diagram of B3 (3/6) Board	137	
2-13. Top Switch Removal CH3 Board Removal		35	(10) Schematic Diagram of B3 (4/6) Board	141	
2-14. G2 Lead Removal		35	(11) Schematic Diagram of B3 (5/6) Board	145	
2-15. Picture Tube Removal		36	(12) Schematic Diagrams of B3 (6/6) and F2 Boards ...	149	
2-16. Frame Sub-Assy Disassembly		36	(13) Schematic Diagram of DH Board	153	
			(14) Schematic Diagram of A1 Board	159	
3. SERVICE JIG			(15) Schematic Diagram of BC4 Board	163	
3-1. Jig Required for Servicing		39	(16) Schematic Diagram of J Board	173	
4. SET-UP ADJUSTMENTS			6-5. Semiconductors	177	
4-1. Beam Landing		40	7. EXPLODED VIEWS		
4-2. Convergence Adjustment		41	7-1. Speaker Bracket	181	
4-3. Focus Adjustment		43	7-2. Chassis	182	
4-4. Neck Assy Twist Adjustment		43	7-3. Picture Tube	183	
4-5. G2 (Screen) and White Balance Adjustments		44	8. ELECTRICAL PARTS LIST	184	
5. CIRCUIT ADJUSTMENTS					
5-1. Adjustments with Commander		45			
5-2. Adjustment Method		46			
5-3. Picture Quality Adjustments		60			
5-4. Deflection Adjustment		62			
5-5. A Board Adjustment After IC003 (memory) Replacement		63			
5-6. Picture Distortion Adjustment		64			

SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

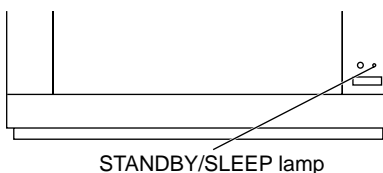
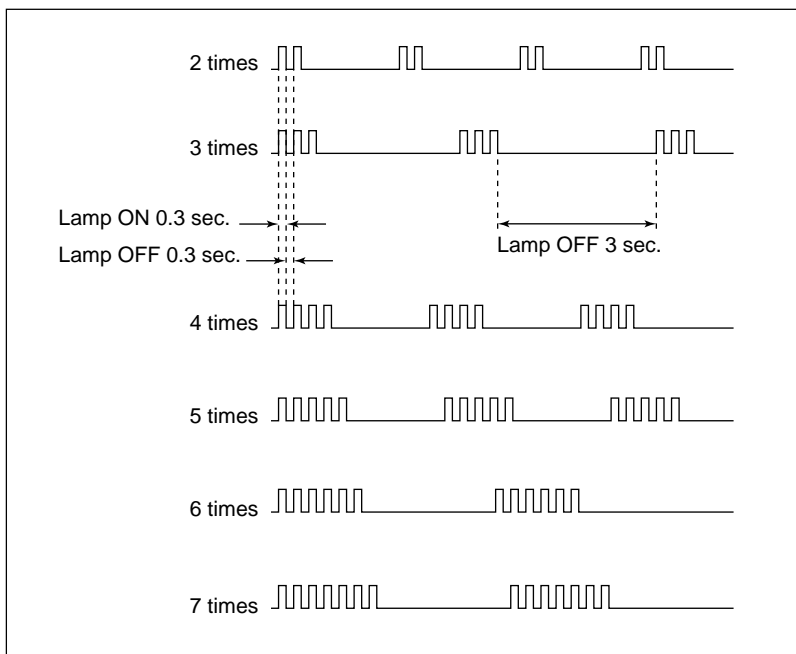
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse is burned out F1601 (F1 Board) 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP)	2 times	002:000 or 002:001~255	<ul style="list-style-type: none"> • H.OUT Q6807 is shorted. • H.LIM Q6810 is shorted. 	<ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001~255	<ul style="list-style-type: none"> • PH 6602 faulty. • 10.5V is not supplied. (D board) 	<ul style="list-style-type: none"> • Power does not come on.
• Vertical deflection failure	4 times	004:000 or 004:001~255	<ul style="list-style-type: none"> • V.OUT IC6800 faulty • D6816 faulty • D6817 faulty • D6824 faulty • R6852 open • R6851 open 	<ul style="list-style-type: none"> • Vertical deflection pulse is stopped. • Vertical size is too small. • Vertical deflection stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~255	<ul style="list-style-type: none"> • G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC9001, 9002, 9003 are faulty. (C board) • IC8306 (J board) and IC4301 (E board) are faulty. • No connection E board to C board. 	<ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small.
• Horizontal deflection failure	6 times	006:000 or 006:001~225	<ul style="list-style-type: none"> • C6831 is open circuit. • CN6101 (D1 board) is disconnected. 	<ul style="list-style-type: none"> • H pulse output is too high.
• Audio Protection	7 times	007:000 or 007:001~225	<ul style="list-style-type: none"> • Power supply fails. • IC1203, IC1204 faulty 	<ul style="list-style-type: none"> • There is picture but speaker does not release sound.
• Micro reset	—	101:00 or 101:001~225	<ul style="list-style-type: none"> • Discharge CRT (C Board) • Static discharge • External noise 	<ul style="list-style-type: none"> • Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: Refer to screen (G2) Adjustment in section 4-5 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



<u>Diagnostic Item</u>	<u>Flash Count*</u>
+B overcurrent	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
High voltage protector	6 times
Audio Protection	7 times

* One flash count is not used for self-diagnostic.

3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

[To Bring Up Screen Test]

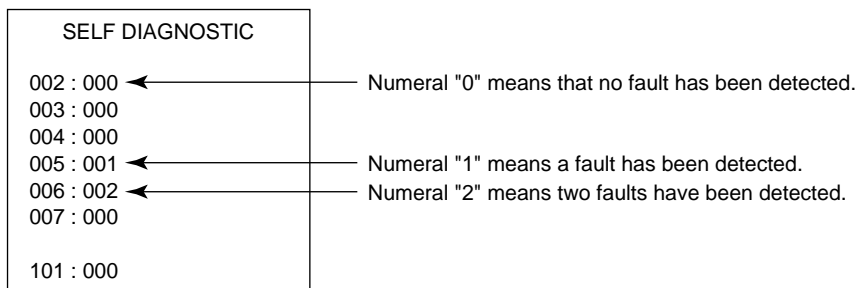
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display → channel [5] → Sound volume [] → Power ON



Note that this differs from entering the service mode (mode volume [+]).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

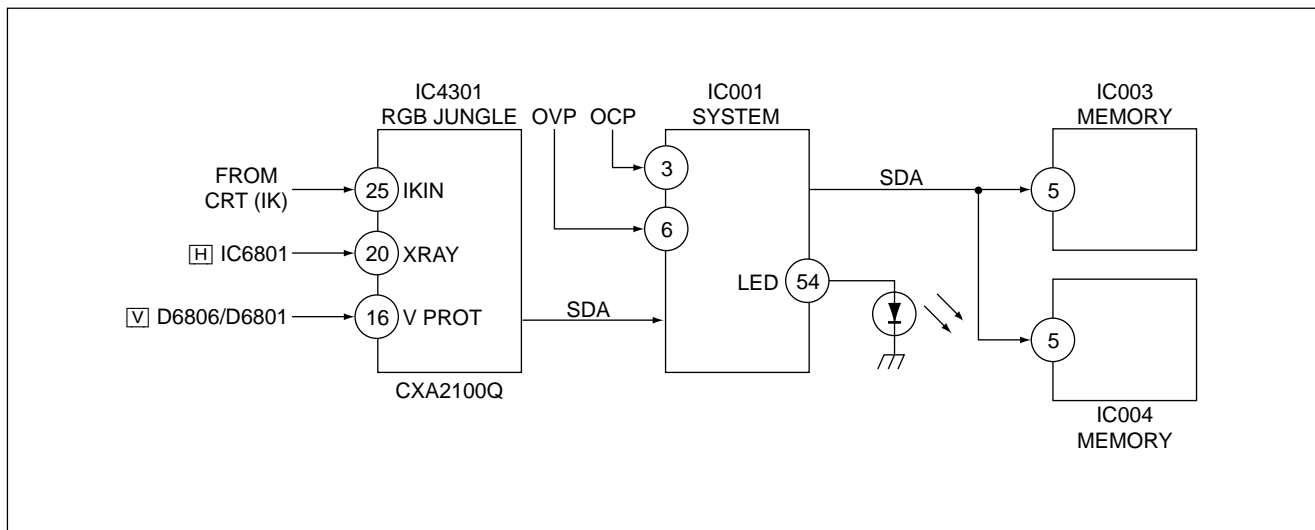
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] → 0

[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP)

Occurs when an overcurrent on the +B(135) line is detected by Q6610 and Q6609. If Q6610 and Q6609 go to ON, the voltage to the pin3 of IC001 go to UP. The unit will automatically turn off.

+B overvoltage (OVP)

Occurs when an overvoltage on the +B(135) line is detected by D6635, Q6611 and Q6612. If Q6611 and Q6612 go to ON, the voltage to pin6 of IC001 go to UP. The unit will automatically turn off.

Vertical deflection failure

Occurs when an absence of the vertical deflection pulse is detected by Q6811, Q6819, Q6820, Q6821 and D6801. Shut down the power supply.

White balance failure

If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4301. TV will stay on, but there will be no picture.

High voltage protector of Horizontal Deflection

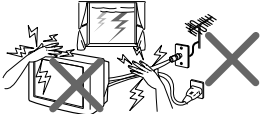
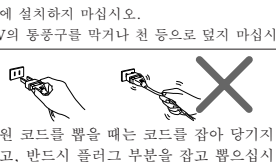



Occurs when an overvoltage of horizontal pulse is detected by D6809 and IC6801. If the voltage of 7 pin of IC6801 goes to High, the voltage to pin20 of IC4301 go to UP. The unit will automatically turn off.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

경고

- TV 내부에는 위험한 고전압 물질이 있으므로 전기 충격을 받지 않도록 주의하시기 바랍니다.
- 본 TV 는 110 - 240 V 의 전압에서만 사용할 수 있습니다.

 <p>반개가 칠때는 전기 충격을 방지하기 위해 TV 나 전원 코드 또는 안테나선을 만지지 마십시오.</p>	 <p>TV는 안전한 장소에 설치해야 하며, 어린이들이 함부로 올라가게 하지 마십시오.</p>
 <p>전기 충격이나 화재를 방지하기 위해 TV가 습기 나 비에 노출되게 하지 마십시오.</p>	 <p>액체나 이물질이 TV의 내부에 들어갔을 경우에는, TV의 전원을 콘센트에서 즉시 제거한 다음 전문 서비스 요원을 불러 TV를 체크하도록 하십시오.</p>
 <p>TV를 책장이나 불박이 캐비닛과 같은 한정된 공간에 설치하지 마십시오. TV의 통풍구를 막거나 천 등으로 덮지 마십시오.</p>	 <p>TV를 청소할 때는 부드러운 마른 천으로 닦아 주십시오. 벤젠, 희석제 또는 일반 세정제는 사용하지 마십시오. 화면이 긁히지 않도록 주의하십시오.</p>
 <p>전원 코드를 뽑을 때는 코드를 잡아 당기지 말고, 반드시 플러그 부분을 잡고 뽑으십시오. TV를 장기간 사용하지 않을 때는 전원 코드를 빼놓으십시오.</p>	 <p>너무 많은 전기용품용 한 소켓에 같이 꽂지 마십시오. 전원 코드가 손상되지 않도록 주의하십시오.</p>
 <p>TV의 뒷면이나 캐비닛을 함부로 열지 마십시오. 필요한 경우는 전문 서비스 요원을 부르십시오.</p>	 <p>온도가 높거나 습한 곳 또는 먼지가 많은 장소에 TV를 설치하지 마십시오.</p>

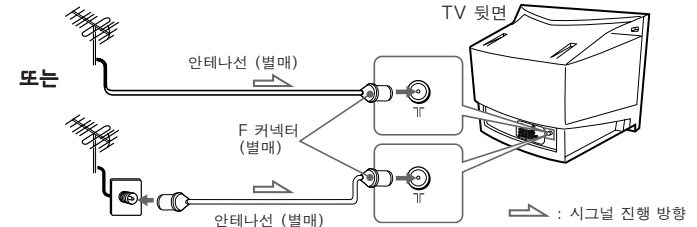
TV 사용하기

설치하기

1 단계

안테나 연결하기

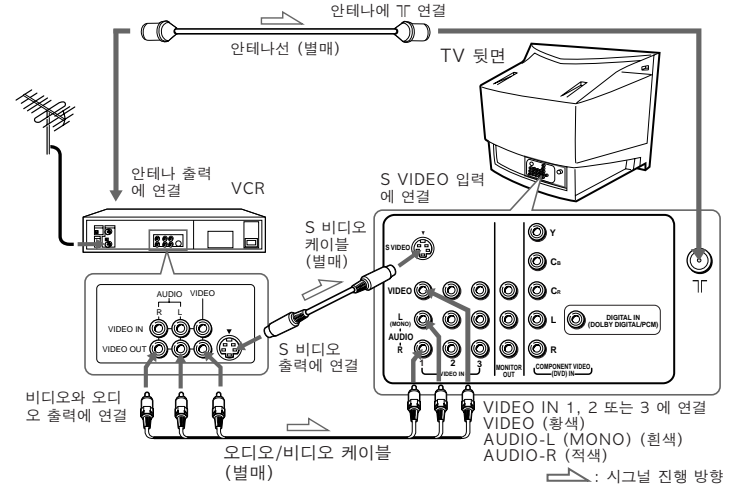
VCR을 연결하려면 아래의 "VCR 연결하기" 그림 설명을 참조하십시오.



주의
모든 기기의 연결이 완전히 끝나지 않은 상태에서 전원코드를 꽂지 마십시오; 만약의 경우 소량의 전기가 누출되어 안테나선과 기타 단자들을 통해 접지로 흐를수 있습니다.

VCR 연결하기

비디오 테이프를 재생하려면 비디오 버튼을 누르십시오 (11페이지 참조).



알아들시다

- 모노럴 VCR을 연결할 경우, 황색 플러그를 VIDEO (황색잭)에 연결하고 흑색 플러그를 AUDIO-L(MONO) (흰색잭)에 연결하십시오.
- VCR을 T (안테나) 단자에 연결할 경우, VCR의 출력 시그널을 TV 프로그램 0 번으로 설정하십시오.
- S VIDEO 와 VIDEO IN 1 입력 단자가 모두 연결되어 있을 경우, S VIDEO 입력이 자동으로 선택됩니다. 비디오 입력을 VIDEO IN 1으로 지정하여 시청하려면 S 비디오 케이블을 제거하십시오.

2 단계

리모콘에 건전지를 삽입하십시오.

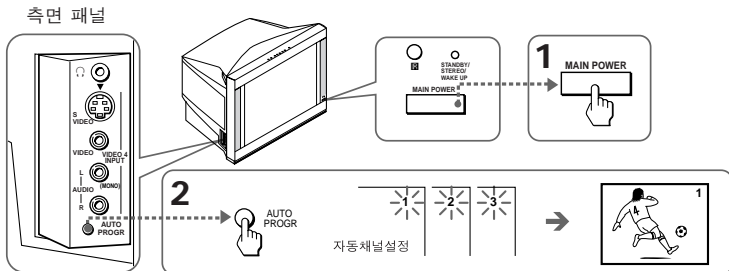


알아들시다

- 오래된 건전지나 서로 다른 종류의 건전지를 함께 사용하지 마십시오.

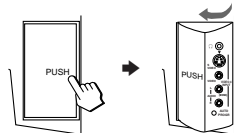
3 단계

채널 자동 설정하기



알아들시다

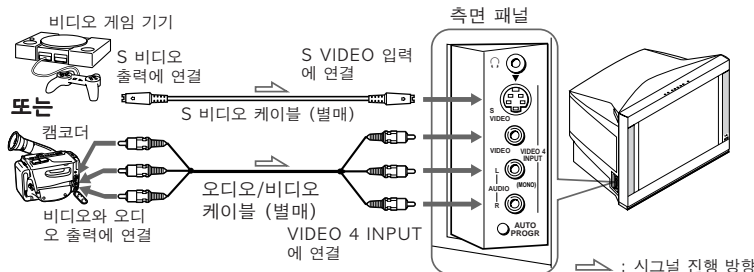
- 채널 자동설정을 중지하려면, 기능선택 버튼을 누르십시오.
- 원하지 않는 채널이 설정되었거나 또는 특정의 채널을 설정할 수 없는 경우, TV를 수동으로 설정할 수 있습니다 (40 페이지 참조).
- TV의 측면 패널을 열려면 딸깍 소리가 날때까지 패널 부분을 눌러 주십시오.



외부 기기 연결하기

VCR, 멀티 디스크 플레이어, 캠코더, 비디오 게임기 또는 스테레오 시스템과 같은 외부 오디오/비디오 콤포넌트를 본 시스템에 연결할 수 있습니다. 연결된 기기의 재생과 조작방법에 대해서는 11 페이지와 23 페이지를 참조하십시오.

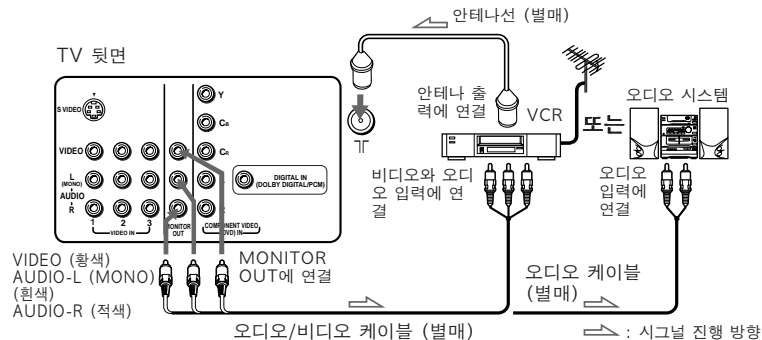
VIDEO 4 INPUT 잭에 캠코더/비디오 게임 기기 연결하기



알아들시다

- 비디오 기기를 연결할 경우, "특정항목선택" 메뉴에서 "게임모드"를 "켜짐"으로 설정한 후 비디오 게임에 적절한 화면으로 설정할 수 있습니다 (34 페이지 참조).
- 비디오 기기를 TV 뒷면에 있는 VIDEO IN 1, 2 또는 3 잭에 연결할 수도 있습니다
- S VIDEO 입력과 VIDEO 4 INPUT 단자가 모두 연결되어 있을 경우, S VIDEO 입력이 자동으로 선택됩니다. 비디오 입력을 VIDEO 4 INPUT으로 지정하여 시청하려면 S 비디오 케이블을 제거하십시오.

MONITOR OUT 출력 잭에 오디오/비디오 기기 연결하기

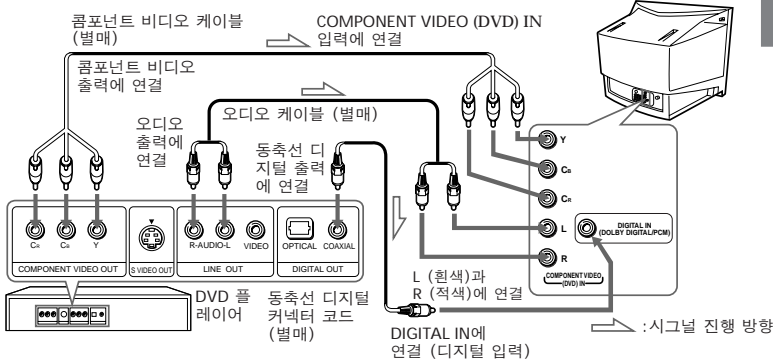


알아들시다

- TV 화면에서 "DVD"를 선택할 경우, MONITOR OUT 잭에는 아무 시그널도 출력되지 않습니다 (11 페이지 참조).

DVD 플레이어를 COMPONENT VIDEO (DVD) IN 입력 단자에 연결하기

- 1 오디오 케이블을 사용하여, TV의 COMPONENT VIDEO (DVD) IN 입력부의 R과 L 단자를 DVD 플레이어 LINE OUT의 AUDIO R과 L 출력 커넥터에 각각 연결하십시오.
- 2 동축선 디지털 커넥터 코드를 사용하여, TV의 COMPONENT VIDEO (DVD) IN 입력부의 DIGITAL IN 단자를 DVD 플레이어 DIGITAL OUT의 COAXIAL 출력 커넥터에 연결하십시오.
- 3 콤포넌트 비디오 케이블을 사용하여, TV의 COMPONENT VIDEO (DVD) IN 입력부의 Y, C_B 및 C_R를 DVD 플레이어 COMPONENT VIDEO OUT의 Y, C_B 및 C_R 출력 커넥터에 연결하십시오.
- 4 “DVD” 표시가 화면에 나타날 때 까지 리모콘 또는 TV의 VIDEO 버튼을 누르십시오.



알아들으십시오

- DVD 플레이어에 따라 색이 다를 수 있습니다:

연결할 코드의 색	연결 부위의 색 (DVD 플레이어)
Y (녹색)	Y
C _B (청색)	C _b , B-Y 또는 P _B
C _R (적색)	C _r , R-Y 또는 P _R

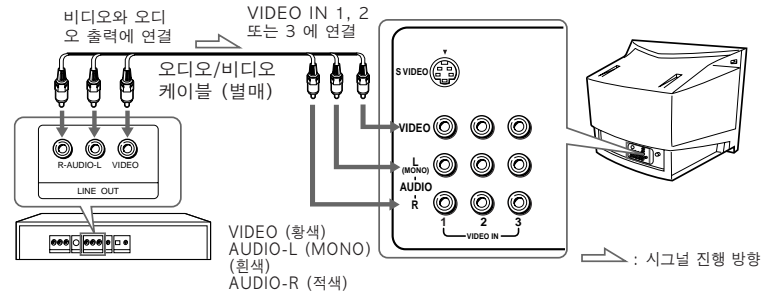
- TV의 COMPONENT VIDEO (DVD) IN 입력부에 연결 시, 비디오 신호를 수신하기 위해선 Y, C_B 및 C_R를 연결해야 하고, 디지털 오디오 신호를 수신하기 위해선 최소한 DIGITAL IN을 연결해야 하며, 아날로그 오디오 신호를 수신하기 위해선 L과 R을 연결하여야 합니다 (30 페이지 참조).
- TV의 COMPONENT VIDEO (DVD) IN 입력부의 DIGITAL IN에 연결을 할 때에는 반드시 “A/V 콘트롤” 메뉴에서 “디지털 입력: 꺼짐”로 먼저 설정을 해야만 합니다. 연결을 끝낸 후에는 “디지털 입력: 켜짐”으로 다시 설정을 해주십시오. COMPONENT VIDEO (DVD) IN 입력부의 DIGITAL IN에 연결을 할 때 설정이 “디지털 입력: 켜짐”으로 되어 있을 경우에는 스피커로부터 갑자기 큰 소음이 생길 수 있으며, 이로 인하여 청각에 장애를 일으키거나 스피커가 손상될 위험이 있으므로 주의하십시오 (30 페이지 참조).

계속

외부 기기 연결하기 (계속)

DVD 플레이어를 VIDEO IN 1, 2, 또는 3 입력 단자에 연결하기

TV의 VIDEO 1, 2 또는 3 AUDIO/VIDEO 커넥터를 DVD 플레이어의 LINE OUT에 연결하십시오.



알아들으십시오

- DVD 디스크의 고품질 화면에 담긴 많은 정보 용량으로 인하여 화면에 잡음이 생길 수도 있습니다. 이럴 경우, “영상모드” 메뉴의 “사용자 조정 메뉴”에서 선명 정도 (“선명도”)를 조절하십시오 (29 페이지 참조).
- DVD 플레이어와 TV를 직접 연결하도록 하십시오. DVD 플레이어를 다른 비디오 기기를 통하여 연결할 경우 화면에 잡음이 생길 수도 있습니다.

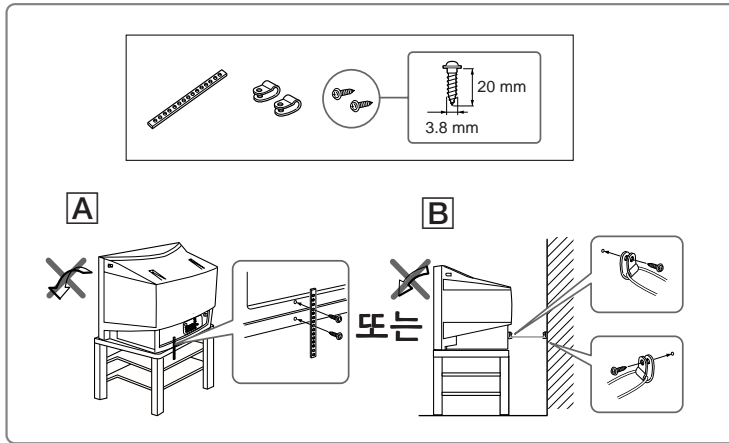
TV 안전 점검하기

TV가 넘어가지 않도록 다음의 방법중 하나로 TV를 고정시키십시오:

A 제공된 나사를 사용하여 TV 뒷면과 TV 스탠드에 나있는 구멍에 안정장치용 밴드를 고정시키십시오.

또는

B 짐쇠에 코드나 고리줄을 끼운 다음 TV 뒷면과 벽 또는 기둥에 고정시키십시오.

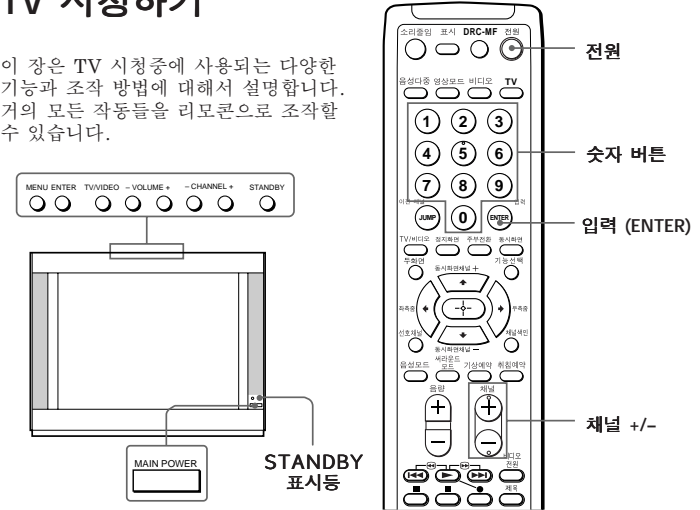


알아들시다

- 반드시 제공된 나사를 사용하십시오. 다른 종류의 나사를 사용하면 TV가 손상될 수도 있습니다.

TV 시청하기

이 장은 TV 시청중에 사용되는 다양한 기능과 조작 방법에 대해서 설명합니다. 거의 모든 작동들을 리모콘으로 조작할 수 있습니다.

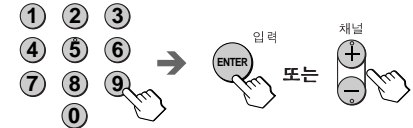


1 MAIN POWER 를 눌러 TV를 켭니다.

TV가 스탠바이 모드에 있을 경우 (TV에 있는 STANDBY 표시등이 빨간색으로 점등됨), 리모콘의 전원 또는 TV의 STANDBY 버튼을 누릅니다.



2 TV 프로그램을 선택하려면 숫자 버튼을 누른 다음 입력 버튼을 누르거나, 또는 채널 +/- 를 누릅니다.



알아들시다

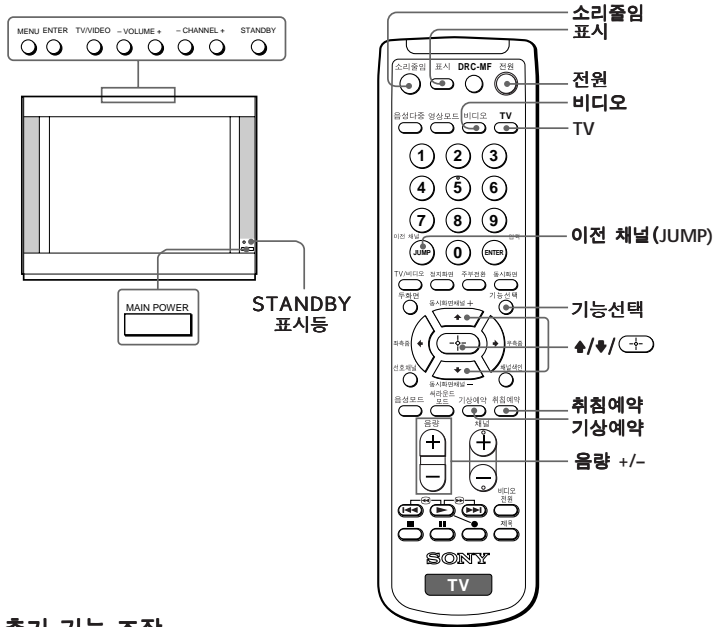
- TV의 전원을 켜면, 프로그램 번호 또는 비디오 모드가 약 40초 동안 표시됩니다. 만약 "특정 항목선택" 메뉴의 "에코모드"가 "켜짐"으로 설정되어 있을 경우 에코모드 (Eco) 아이콘도 표시가 됩니다.

TV 프로그램을 신속히 선택하려면

- 채널 +/- 를 누른 후, 누름 상태를 유지합니다.
- 원하는 프로그램의 번호가 나타나면 채널 +/- 의 누름을 해제합니다.

알아들시다

- TV 프로그램을 신속히 선택할 경우 처음 화면이 제대로 나오지 않을 수도 있습니다. 이 것은 기능 불량일 수 있습니다.



TV 사용하기

추가 기능 조작

설명	조작 버튼
임시로 끄려면	전원. TV의 STANDBY 표시기가 빨간색으로 점등됩니다.
완전히 끄려면	TV의 MAIN POWER.
음량을 조절하십시오	음량 +/- .
음성을 중지시키려면	소리줄임.
비디오를 시청하려면 (VCR, 캠코더 등)	비디오 (또는 TV의 TV/VIDEO)를 눌러 "비디오 1", "비디오 2", "비디오 3", "비디오 4" 또는 "DVD"를 선택합니다. TV 프로그램을 다시 시청하려면 TV (또는 TV의 TV/VIDEO)를 누릅니다.
이전 채널로 되돌아 가려면	이전 채널.
화면 정보를 디스플레이 하려면*	표시.

* 화면/음성 정보 설정과 프로그램 번호 또는 비디오 모드가 화면에 디스플레이 됩니다. 화면/음성 설정에 관한 정보는 3초 후에 지워집니다.

계속

TV 시청하기 (계속)

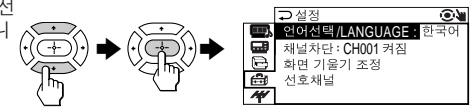
메뉴 언어 변경하기

메뉴 언어 및 화면 디스플레이 언어를 변경할 수 있습니다. 메뉴의 자세한 사용법에 대해서는 25 페이지의 "메뉴 시스템에 대하여"를 참조하십시오.

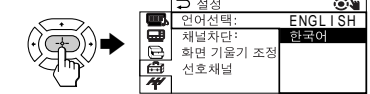
1 기능선택 을 누릅니다.



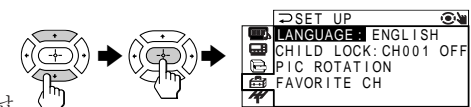
2 ↑ 또는 ↓를 눌러 선택한 다음, (+)를 누릅니다.



3 "언어선택/LANGUAGE"을 선택한 다음 (+)를 누릅니다.



4 ↑ 또는 ↓를 눌러 원하는 언어를 선택한 다음 (+)를 누릅니다.



선택된 메뉴 언어가 나타납니다.

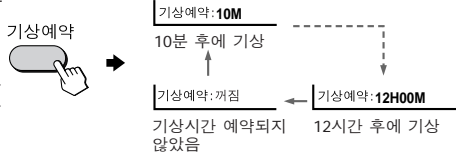
일반 화면으로 돌아오려면

기능선택 을 누릅니다.

기상 시간 예약하기

1 원하는 시간이 나타날 때까지 **기상예약** 버튼을 누릅니다.

기상 시간 예약을 설정하면 곧바로 작동이 시작됩니다.



2 기상시 듣고자 하는 TV 채널이나 비디오 모드를 선택하십시오.

3 TV가 자동으로 꺼지게 하려면 **전원** 버튼을 누르거나 취침 타이머를 선택하십시오. TV의 WAKE UP 표시기가 오렌지 색으로 점등됩니다.

기상시간 예약 해제하기

“기상예약: 꺼짐”가 화면에 나타날 때 까지 **기상예약** 버튼을 누르거나 TV의 전원을 끄십시오.

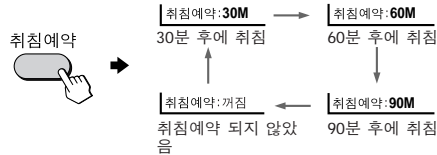
알아들으시다

- 기상시간 예약 설정으로 TV가 자동으로 켜진후 2시간 동안 리모콘이나 TV의 아무런 조작 버튼도 누르지 않으면, TV가 자동으로 스탠바이 모드로 돌아갑니다. TV를 다시 시청하려면, 리모콘이나 TV의 아무런 조작 버튼을 누르십시오.

취침시간 예약하기

원하는 시간이 나타날때 까지 **취침예약** 버튼을 누릅니다.

취침 시간 예약을 설정하면 곧바로 작동이 시작됩니다.



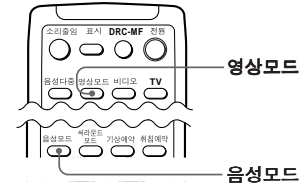
취침예약 해제하기

“취침예약: 꺼짐”가 화면에 나타날 때까지 **취침예약** 버튼을 누르거나 TV의 전원을 끄십시오.

고급 조작

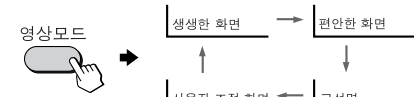
화면 및 음향 모드 선택하기

“사용자 조정 화면” (또는 “사용자 조정 음성”) 옵션 기능을 사용하여 원하는 화면과 음향 모드를 설정할 수 있습니다.



화면 모드 선택하기

원하는 화면 모드가 나타날 때 까지 **영상모드** 를 반복적으로 누르십시오.



선택 모드	설명
“생생한 화면”	고선명도 영상 수신.
“편안한 화면”	일반 영상 수신.
“고선명”	고해상도와 중선명도의 영상 수신.
“사용자 조정 화면”	“A/V 콘트롤” 메뉴의 “선택조정” 옵션에서 최종으로 설정된 화면 모드 수신 (29 페이지 참조).

음향 모드 선택하기

원하는 음향 모드가 나타날 때 까지 **음성모드** 를 반복적으로 누르십시오.



선택 모드	설명
“생생한 음성”	저음과 고음이 모두 강조된 다이내믹하고 맑은 음향.
“드라마”	목소리와 고음이 강조된 음향.
“부드러운 음성”	부드러운 음향.
“사용자 조정 음성”	“A/V 콘트롤” 메뉴의 “선택조정” 옵션에서 최종으로 설정된 음향 모드를 수신 (29 페이지 참조).

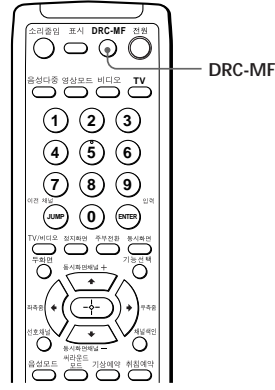
도움말

- 메뉴를 사용하여 화면과 음향 모드를 설정할 수 있습니다 (28 페이지의 “A/V 콘트롤 설정 변경하기” 참조).

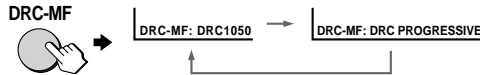
고화질 화면 시청하기

— "DRC-MF"

본 TV에 내장된 디지털 리얼리티 크리에이션-멀티 기능(DRC-MF)으로 고화질 화면을 즐기실 수 있습니다.
"DRC1050"을 선택하여 슈퍼 리얼(고선명도) 화면을 시청하거나 또는 "DRC PROGRESSIVE"를 선택하여 화면의 흐트러짐을 줄일 수 있습니다.



원하는 화질이 나타날 때 까지 DRC-MF를 반복적으로 누릅니다.




선택 모드	설명
"DRC1050"	고선명도 화질을 선택합니다.
"DRC PROGRESSIVE"	화면의 작은 부분의 흐트러짐 또는 스캐닝 라인(예: 문자나 물체의 가장자리 부분에 나타남)이 감소됩니다.

도움말

- 방송시그널이 약할 경우 TV 화면에 점이나 잡음이 생길 수도 있습니다. 이럴 경우 잡음을 줄이려면, "A/V 콘트롤" 메뉴의 "영상모드"에서 "선택조정"을 선택한 후 "선명도"를 조금 낮게 조절하십시오 (29 페이지 참조).

알아두시다

- DRC-MF 모드는 "채널색인"이나 "선호채널" 기능을 사용중일 때, 그리고 "게임모드", 픽처-인-픽처 ("동시화면") 또는 "두화면" 모드가 "켜짐"으로 설정되어 있을 때에는 선택할 수가 없습니다.

DRC-MF 로고 () 와 "DRC-MF" 는 Sony Corporation 의 등록상표입니다.

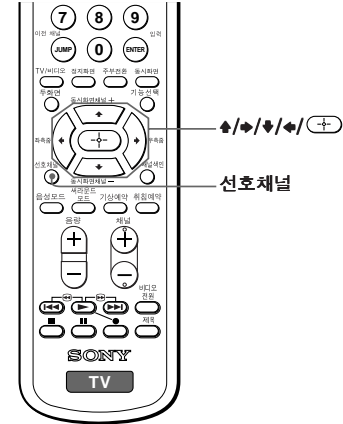
다
만
참
조

좋아하는 채널 시청하기

— "선호채널"

일곱 개의 선호채널을 동시에 디스플레이하여 빠르고 쉽게 선택할 수가 있습니다.

"자동조정" 모드에서는 숫자버튼을 사용하여 선택했던 최종 일곱 개의 채널이 디스플레이됩니다. 선호하는 채널은 "선호채널" 메뉴의 "수동조정" 모드에서 원하는 대로 설정할 수 있습니다 (37 페이지의 "선호채널 설정 변경하기" 참조).

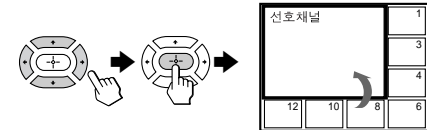


선호하는 채널 선택하기

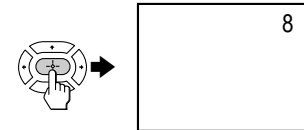
1 선호채널을 누릅니다.



2 ↑, →, ↓, 또는 ←를 눌러 원하는 채널(예: 채널 8)을 선택한 다음, (+)를 누릅니다.



3 (+)를 다시 한번 누릅니다.



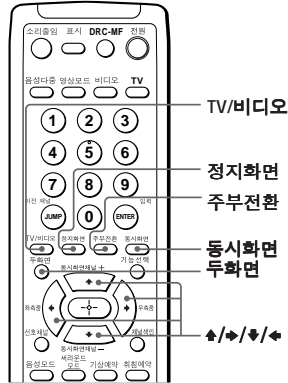
알아두시다

- TV를 처음 사용할 경우에는 사전 설정된 일곱 개의 채널이 디스플레이됩니다.

두 개의 프로그램을 동시에 시청하기

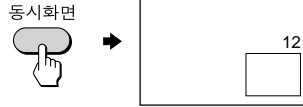
— “동시화면”, “두화면”

동시화면 또는 두화면 기능을 사용하여, 두 개의 다른 TV 프로그램 또는 비디오를 주화면의 내부 또는 옆에 디스플레이하여 동시에 시청할 수가 있습니다.



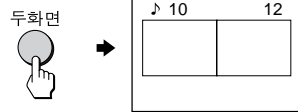
동시화면 화면 디스플레이

동시화면 버튼을 누릅니다.



두화면 화면 디스플레이

두화면 버튼을 누릅니다.



일반 화면으로 돌아오려면

동시화면 버튼을 누르거나 (동시화면 화면 모드에 있는 경우) 또는 두화면 버튼을 누릅니다 (두화면 화면 모드에 있는 경우).



도움말

- 메뉴를 사용하여 동시화면 화면 또는 두화면 화면을 디스플레이 할 수도 있습니다 (31 페이지의 "여러화면 설정 변경하기" 참조).
- 동시화면 화면의 위치를 변경할 수 있습니다 (31 페이지의 "여러화면 설정 변경하기" 참조).

계속

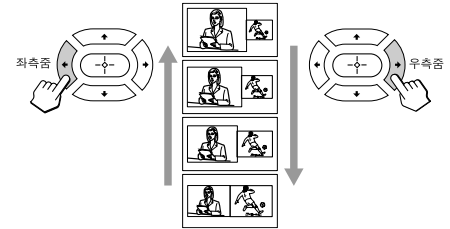
두 개의 프로그램을 동시에 시청하기(계속)

동시화면/두화면 화면의 추가 조작 방법

설명	조작 버튼
동시화면 화면 또는 두화면 화면의 오른쪽 TV 프로그램을 변경하려면	▲ (동시화면채널 +) 또는 ▼ (동시화면채널 -). 비디오 로 바꾸려면 TV/비디오를 누릅니다.
주화면과 동시화면 화면의 프로그램을 서로 바꾸려면	주부전환. 
동시화면 화면을 일시 정지시키려면	정지화면. 일시 정지를 해제시키려면 같은 버튼을 한번 더 누릅니다.
두화면 화면에서 오른쪽 프로그램과 왼쪽 프로그램을 서로 바꾸려면	주부전환. 

두화면 화면의 크기를 변경하려면

- (좌축점): 왼쪽 화면의 크기를 증가시킵니다.
- (우축점): 오른쪽 화면의 크기를 증가시킵니다.



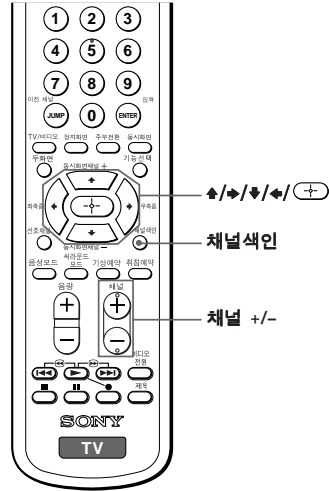
알아들시다

- 정지화면 버튼은 두화면 화면 모드에서는 작동하지 않습니다.
- 동시화면 화면에서 정상속도보다 빠르거나 또는 느린 속도로 비디오를 시청할 경우, VCR의 종류에 따라 화면이 고르지 않게 나타날 수도 있습니다.
- 두화면 화면 모드에서는 왼쪽 화면(♪ 화면에 표시됨)만 조작이 가능하며 음성을 들을 수가 있습니다.
- 두화면 버튼을 누르면 두화면 화면이 나타나기 전에 약 1초간 TV 화면이 깜박거리거나 공백화면이 나타날 수도 있습니다. 이것은 TV의 기능 불량 아닙니다.

멀티 프로그램 디스플레이 하기

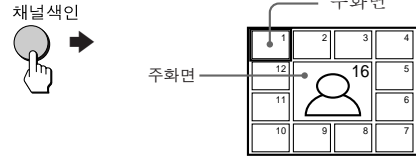
— “채널색인”

채널색인 기능을 사용하여 설정된 모든 TV 프로그램을 12 개 또는 7 개의 부 화면에 디스플레이 한 후 원하는 프로그램을 선택할 수 있습니다.

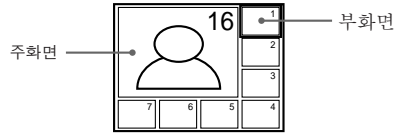


채널색인 버튼을 누릅니다.

왼쪽 위에서부터 시계방향으로 미리 설정된 첫 12 개의 프로그램이 차례로 나타납니다.



미리 설정된 TV의 총 프로그램이 8개 미만일 경우, 7개의 부화면이 왼쪽 위에서부터 시계방향으로 차례로 나타납니다.



도움말

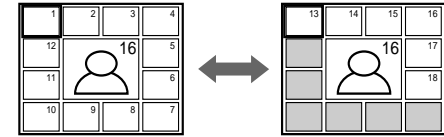
- 두화면 픽처 모드에서 채널색인 버튼을 누를 경우, 왼쪽의 화면이 채널색인 모드의 주화면으로 나타납니다.

계속

멀티 프로그램 디스플레이 하기(계속)

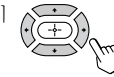
사전설정된 12 채널의 연속 디스플레이

이 기능은 사전설정된 채널이 12 개 이상일 경우에만 적용됩니다.
리모콘의 채널 +/- 또는 TV의 CHANNEL +/- 버튼을 누릅니다.



원하는 프로그램을 부화면에서 직접 선택하려면

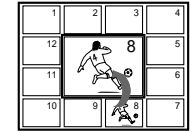
1 ▲, ▼, ▲, ▼, 또는 ◀를 눌러 원하는 프로그램으로 프레임이 통합됩니다.



2 (+) 버튼을 누릅니다.



3 (+) 버튼을 다시 한번 누릅니다.



도움말

- 숫자버튼을 누르면 해당 프로그램이 곧바로 상영됩니다.

일반 화면으로 돌아오려면

리모콘의 채널색인 나, 또는:

1 "여러화면" 메뉴에서 "채널색인"을 선택합니다.

2 (+) 버튼을 누릅니다.

도움말

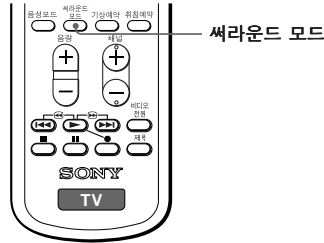
- 메뉴를 사용하여 여러화면을 디스플레이할 수도 있습니다 (31 페이지의 "여러화면 설정 변경하기" 참조).

알아두시라

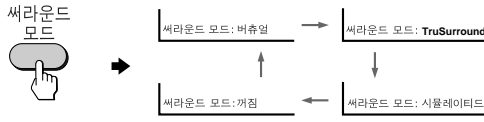
- 여러화면이 디스플레이 될 경우 음성은 주화면만 나오게 됩니다.

서라운드 음향 청취하기

서라운드 기능으로 콘서트 홀과 영화관의 입체 음향 효과를 즐기실 수 있습니다.



원하는 서라운드 음향이 나타날 때까지 **서라운드 모드**를 반복적으로 누릅니다.



선택 모드	설명
"버추얼"	돌비* 서라운드 음향.
"TruSurround"	청취하는 방의 뒤 쪽까지 소리가 울려 퍼지는 서라운드 음향.
"시물레이터드"	스테레오 음향과 유사한 효과의 모노럴 음향.
"꺼짐"	서라운드 음향 해제.

알아들으십시오

- 본 모델의 가상 돌비 서라운드에는 돌비 디지털, 돌비 프로 로직, 그리고 트루서라운드*가 있습니다.
- "버추얼"(가상 돌비 디지털)은 "A/V 콘트롤" 메뉴에서 "디지털 입력: 커짐"이 설정된 상태에서 TV의 COMPONENT VIDEO (DVD) IN의 DIGITAL IN 잭을 통하여 돌비 디지털 시그널을 수신할 경우에만 가능합니다 (7 페이지 및 29 페이지 참조).
- TV 뒷면에 있는 COMPONENT VIDEO (DVD) IN의 DIGITAL IN 잭의 사용시, 청취가능한 서라운드 모드는 그 당시에 수신받는 디지털 시그널의 타입에 따라 다릅니다.
- 시물레이터드는 SRS (MONO)를 적용합니다.

* 본 제품은 Dolby Laboratories Licensing Corporation의 기술 사용권 취득 하에 제조되었습니다. DOLBY, 더블-D 심볼 , 및 "PRO LOGIC"은 Dolby Laboratories Licensing Corporation의 상표입니다.

"TruSurround"™는 SRS Labs, Inc.의 상표입니다. SRS와 SRS 심볼은 미국 및 특정 국가 소재 SRS Labs, Inc.의 등록 상표입니다. SRS와 TruSurround는 SRS Labs, Inc.의 기술 사용권 취득 하에 사용되었으며, 미국 특허권 No. 4,748,669와 4,841,572 및 다수의 기취득 또는 취득 중인 기타 국가의 특허권으로 부터 보호받습니다.

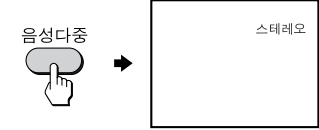
스테레오 및 음성다중 프로그램 시청하기

스테레오 음향 또는 한국어 스테레오 시스템의 음성다중 프로그램을 즐기실 수 있습니다.

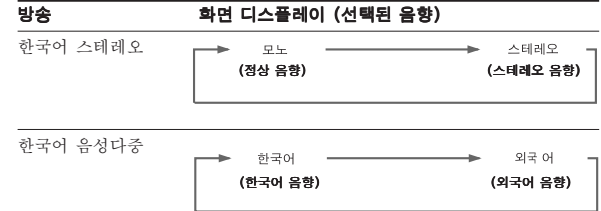


원하는 음성모드가 나타날 때까지 **음성다중**를 반복적으로 누릅니다.

화면에 선택된 음성모드가 표시되며, 스테레오나 음성다중 프로그램이 수신될 경우 TV의 STEREO 표시등이 빨간색으로 점등됩니다.



한국어 스테레오 또는 음성다중 프로그램을 시청할 경우

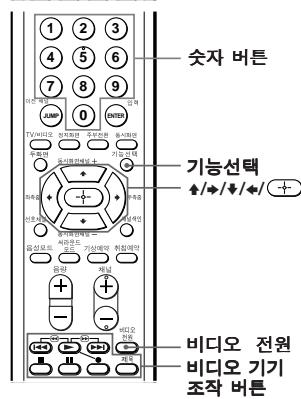


알아들으십시오

- 스테레오 방송 시그널이 약할 경우, 스테레오 방송의 음성에 잡음이 생길 수도 있습니다. 잡음을 줄이려면 "모노"를 선택하십시오.
- TV가 "모노"로 설정되어 있을 경우에는 스테레오 방송 시그널이 수신되지 않습니다.

외부 기기 조작하기

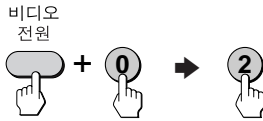
본 시스템에 공급된 리모콘을 사용하여 베타, 8mm, VHS, MDP, CD 또는 DVD 등의 소니 비디오 기기를 조작할 수 있습니다.



연결된 외부 기기의 조작을 위한 리모콘 설정

비디오 전원을 누른 상태에서, 아래에 표시된 외부 기기의 코드 번호를 누릅니다 (아래 표 참조).

예: 소니 8 mm VCR을 작동하려면:



소니 비디오 기기의 코드 번호

조작할 기기	비디오 전원을 누른 상태에서 누를 번호
DVD	00
VTR1 (Beta)	01
VTR2 (8 mm)	02
VTR3 (VHS)	03
MDP	04
CD	06
MD	07

알아주세요

- 비디오 기기에 COMMAND MODE 선택 장치가 내장되어 있을 경우, 이 장치를 위의 설정 코드와 동일한 포지션으로 설정하십시오.
- 만약 이러한 기능이 기기에 없을 경우, 리모콘의 해당 버튼은 작동되지 않습니다.
- 건전지를 제거할 경우, 설정했던 코드번호는 공장 출고시의 세팅으로 돌아옵니다.

계속

외부 기기 조작하기 (계속)

리모콘으로 VCR 조작하기

설명	조작 버튼
전원 켜기/끄기	비디오 전원.
녹음	● 을 누른 상태에서 ▶ 을 누릅니다.
재생	▶
정지	■
고속 감기 (▶▶)	▶▶
테이프 되감기 (◀◀)	◀◀
일시 정지	
앞으로 (▶▶)	▶▶
또는 뒤로 (◀◀) 화면 검색	◀◀

노멀 재생을 재시작하려면 다시 한번 누름.
재생중 ▶▶ 또는 ◀◀.
노멀 재생을 다시 시작하려면 누름을 해제하십시오.

리모콘으로 DVD 조작하기

설명	조작 버튼
전원 켜기/끄기	비디오 전원.
재생	▶
정지	■
일시 정지	
오디오 디스크의 각 트랙을 단계별로 이동하려면	▶▶
타이틀 메뉴 디스플레이	▶▶
메뉴 디스플레이	▶▶
메뉴 항목 선택	▶▶

노멀 재생을 재시작하려면 다시 한번 누름.
다음 트랙으로 가려면 ▶▶ 를, 그리고 이전 트랙으로 가려면 ◀◀ 를 누릅니다.
제목을.
● 을 누른 상태에서 기능선택 을 누릅니다.
● 을 누른 상태에서 ▲/▼/◆/▶.

리모콘으로 MDP 조작하기

설명	조작 버튼
전원 켜기/끄기	비디오 전원.
정지	▶
정지	■
일시 정지	
디스크의 각 트랙을 단계별로 이동하려면	▶▶

노멀 재생을 재시작하려면 다시 한번 누름.
다음 트랙으로 가려면 ▶▶ 를, 그리고 이전 트랙으로 가려면 ◀◀ 를 누릅니다.

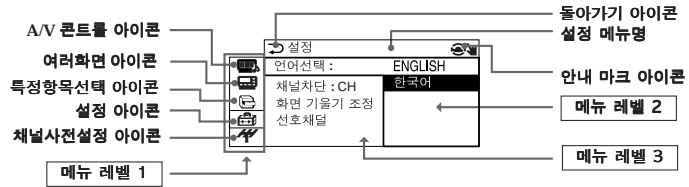
리모콘으로 CD/MD 조작하기

설명	조작 버튼
전원 켜기/끄기	비디오 전원.
정지	▶
정지	■
일시 정지	
이전/다음 트랙으로 가려면	▶▶ 또는 ◀◀.
트랙내에서 고속 감기(▶▶)/고속 되감기 (◀◀)	▶▶ 을 누른 상태에서 ▶▶ 또는 ◀◀.

메뉴 설정 안내 (MENU)

메뉴 시스템에 대하여

MENU 버튼을 눌러 메뉴로 들어간 다음 TV의 설정 내용을 변경할 수 있습니다. 다음은 메뉴 시스템에 대한 설명입니다.



레벨 1	레벨 2	레벨 3 / 기능
"A/V 컨트롤"	"DRC-MF"	"DRC-MF" 모드를 선택합니다: "DRC1050" → "PROGRESSIVE"
	"영상모드"	영상모드를 선택합니다: "생생한 화면" → "편안한 화면" → "고선명" → "사용자 조정 화면" → "선택조정"
	"선택조정"	"사용자 조정 화면" 옵션 조절: "화질" → "색상" → "밝기" → "색농도" → "선명도"
	"음성모드"	음성모드를 선택합니다: "생생한 음성" → "드라마" → "부드러운 음성" → "사용자 조정 음성" → "선택조정"
	"선택조정"	"사용자 조정 음성" 옵션 조절: "저음" → "고음" → "음균형" → "BBE"
	"썬라운드 모드"	"썬라운드 모드"를 선택합니다: "비썬얼" → "TruSurround" → "시물레이티드" → "꺼짐"
	"디지털 입력"	TV 뒷면의 디지털 오디오 입력잭을 작동시키거나 해제시킵니다.
"여러화면"	"동시화면"	PIP 기능을 작동시키거나 해제시킵니다.
	"동시화면 위치선택"	부화면의 위치를 변경시킵니다.
	"주부 전환"	주화면과 부화면의 프로그램을 서로 바꿉니다.
	"두화면"	주화면 옆에 TV 프로그램이나 비디오를 디스플레이합니다.
	"채널색인"	사전설정된 모든 TV 프로그램들을 동시에 디스플레이합니다.
"특정항목선택"	"와이드 모드"	와이드 모드 기능을 작동시키거나 해제시킵니다.
	"에코모드"	에코모드 기능을 작동시키거나 해제시킵니다.
	"게임모드"	게임모드 기능을 작동시키거나 해제시킵니다.

계속

메뉴 시스템에 대하여 (계속)

레벨 1	레벨 2	레벨 3 / 기능
"설정"	"언어선택"	메뉴 언어를 변경합니다: "ENGLISH" (영어) → "한국어"
	"채널차단"	특정 채널을 차단시킵니다.
	"화면 기울기 조정"	화면을 순환시킵니다.
"채널사전설정"	"선호채널"	선호 채널을 설정합니다.
	"자동채널설정"	채널을 자동으로 사전설정합니다.
	"케이블방송"	케이블방송 TV를 시청하고자 할 때 "켜짐"으로 설정하십시오.
	"추가/삭제"	원하는 채널을 선택합니다.
	"안테나감지모드"	TV 시그널이 너무 강하여 화면이 고르지 못할 경우, TV의 수신 감응도를 조절할 수 있습니다.

* BBE는 BBE Sound, Inc.의 자적 허가 아래 Sony Corporation에 의해 제조되었으며, 미국 특허권 번호 4,638,258 및 4,482,866에 의거합니다.
"BBE"와 BBE 심볼은 BBE Sound, Inc.의 등록상표입니다.

메뉴 사용법

기능선택 버튼을 눌러 메뉴를 디스플레이 합니다.

기능선택

▲ 또는 ▼ (또는 ▲/▼)를 눌러 원하는 항목을 선택합니다.

▶를 눌러 선택된 항목을 확인한 후 다음 레벨로 가십시오.

추가 메뉴 조작법

설명	조작 버튼
설정 값을 조절하려면	▲/▼ 또는 ▲/▼.
이전/다음 메뉴 레벨로 이동하려면	▶ 또는 ◀.
메뉴를 취소하려면	기능선택.

도움말

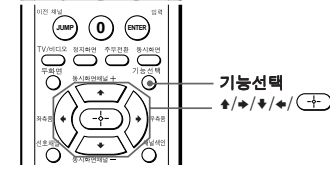
- 메뉴 레벨 2에서 메뉴 레벨 1로 가려면, 돌아가기 아이콘 (↶)이 하이라이트될 때 까지 ▲ 또는 ▼를 누른 다음, (▶)를 누르십시오.
- TV에 있는 MENU, ENTER 및 VOLUME +/- 버튼으로도 위의 조작이 가능합니다.

알아두십시오

- 설정 중에 60 초 이상 아무런 내용도 입력이 되지 않을 경우, 메뉴가 자동으로 사라집니다.

"A/V 콘트롤" 설정 변경하기

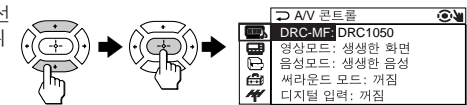
"A/V 콘트롤" 메뉴를 사용하여 영상 및 음성모드를 설정할 수 있습니다.



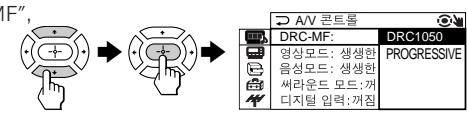
1 기능선택 버튼을 누릅니다.



2 ▲ 또는 ▼를 눌러 [DRC-MF]를 선택한 다음, (▶)를 누릅니다.



3 ▲ 또는 ▼를 눌러 "DRC-MF", "영상모드", "음성모드" "썸라운드 모드" 또는 "디지털 입력"을 선택한 다음, (▶)를 누릅니다.



4 ▲ 또는 ▼를 눌러 원하는 옵션을 선택한 다음, (▶)를 누릅니다.



설정 항목	선택 내용
"DRC-MF"	"DRC1050" 또는 "PROGRESSIVE".
"영상모드"	"생생한 화면", "편안한 화면", "고선명", "사용자 조정 화면", 또는 "선택조정".
"음성모드"	"생생한 음성", "드라마", "부드러운 음성", "사용자 조정 음성", 또는 "선택조정".
"썸라운드 모드"	"비추얼", "TruSurround", "시뮬레이터드", 또는 "꺼짐".
"디지털 입력"	"꺼짐", 또는 "꺼짐".

* "사용자 조정 화면" (또는 "사용자 조정 음성")모드가 선택된 경우, "선택조정"에서 최종으로 선택했던 영상/음성 설정이 수신됩니다 (29 페이지 참조).

도움말

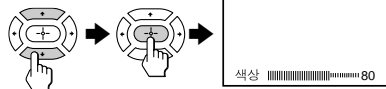
- "DRC-MF", "영상모드" / "음성모드", "썸라운드 모드" 및 "디지털 입력" 모드의 옵션항목에 대한 자세한 설명은 15, 14, 21 및 30 페이지를 각각 참조하십시오.

일반 화면으로 돌아오려면

기능선택 버튼을 누릅니다.

“영상모드” 에서 “선택조정” 조절하기

1 ↑ 또는 ↓ 를 눌러 원하는 항목(예: “색상”)을 선택한 다음, (+) 를 누릅니다.



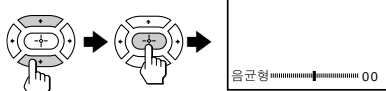
2 아래 표를 참조하여 설정값을 선택한 다음, (+) 를 누릅니다.

설정 항목	선택 모드 ↓/↑ 설명	선택 모드 ↓/↑ 설명
“화질”	화면의 선명도를 감소시킵니다.	화면의 선명도를 증가시킵니다.
“색상”	색상의 명암도를 감소시킵니다.	색상의 명암도를 증가시킵니다.
“밝기”	화면을 어둡게 합니다.	화면을 밝게합니다.
“색농도”	화면의 붉은 톤을 증가시킵니다.	화면의 녹색 톤을 증가시킵니다.
“선명도”	화면을 부드럽게합니다.	화면을 더욱 뚜렷하게합니다.

3 위의 단계를 반복하여 다른 항목들을 조절하십시오.
조절된 설정은 “사용자 조정 화면”의 선택시에 수신이 됩니다.

“음성모드” 에서 “선택조정” 조절하기

1 ↑ 또는 ↓ 를 눌러 원하는 항목(예: “음균형”)을 선택한 다음, (+) 를 누릅니다.



2 아래 표를 참조하여 설정값을 선택한 다음, (+) 를 누릅니다.

설정 항목	선택 모드
“저음”	↓/← 를 눌러 저음을 감소시키고, ↑/→ 를 눌러 저음을 강.
“고음”	↓/← 를 눌러 고음을 감소시키고, ↑/→ 를 눌러 고음을 강조합니다.
“음균형”	↓/← 를 눌러 좌측 스피커의 음량을 증가시키고, ↑/→ 를 눌러 우측 스피커의 음량을 증가시킵니다.
“BBE”	↑/→ 를 눌러 “고설정”, “저설정” 또는 “꺼짐”을 선택합니다. “BBE”는 맑은 음성을 만들어줍니다.


3 위의 단계를 반복하여 다른 항목들을 조절하십시오.
조절된 설정은 “사용자 조정 음성”의 선택시에 수신이 됩니다.

계속

“A/V 컨트롤” 설정 변경하기 (계속)

“디지털 입력” 옵션 설정하기

1 “디지털 입력” 메뉴에서 ↑ 또는 ↓ 를 눌러 원하는 옵션을 선택합니다 (아래 표 참조).



선택 내용	설명
“꺼짐”	COMPONENT VIDEO (DVD) IN 과 DIGITAL IN 잭을 통하여 디지털 오디오 시그널을 수신합니다.
“꺼짐”	COMPONENT VIDEO (DVD) IN, 그리고 L과 R 잭을 통하여 아날로그 오디오 시그널을 수신합니다.

2 (+) 를 눌러 선택된 옵션을 확인합니다.



알아두시라

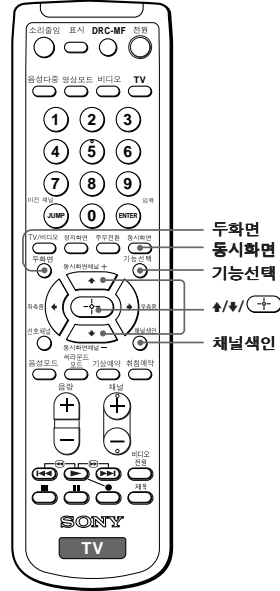
- 본 TV 는 COMPONENT VIDEO (DVD) IN 과 DIGITAL IN 잭을 통하여 돌비 디지털 또는 리니어 PCM 포맷 디지털 시그널만을 수신할 수 있습니다 (7 페이지 참조). 이 외에 기타 포맷의 디지털 시그널을 수신할 경우 잡음이 생기거나 또는 스피커에서 음성이 나오지 않게 됩니다.

도움말

- 메뉴시스템 및 메뉴의 사용법에 대한 자세한 설명은 25 페이지의 “메뉴 시스템에 대하여”를 참조하시기 바랍니다.

"여러화면" 설정 변경하기

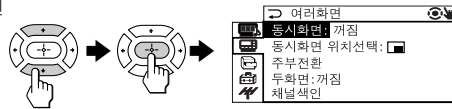
"여러화면" 메뉴를 사용하여 픽처-인-픽처 동시화면, 픽처 두화면 또는 채널색인 기능을 사용할 수 있습니다.



1 기능선택 을 누릅니다.

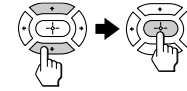


2 ↑ 또는 ↓ 를 눌러 [] 를 선택한 다음, (+) 를 누릅니다.



"여러화면" 설정 변경하기 (계속)

3 ↑ 또는 ↓ 를 눌러 원하는 옵션을 선택한 다음 (아래 표 참조), (+) 를 누릅니다.



선택 내용	설명
"동시화면"	동시화면 화면을 주화면 안에 디스플레이합니다. ↑ 또는 ↓ 를 눌러 "꺼짐"을 선택한 다음, (+) 를 누릅니다. 동시화면을 취소하려면 동시화면 을 누르거나 "꺼짐"을 선택한 다음 (+) 를 누릅니다.
"동시화면 위치선택"	동시화면 화면의 위치를 변경합니다. ↑ 또는 ↓ 를 눌러 원하는 위치를 선택한 다음, (+) 를 누릅니다.
"주부전환"	주화면과 동시화면 화면을 서로 바꾸거나, 두화면 픽처의 오른쪽 화면과 왼쪽 화면을 서로 바꿉니다.
"두화면"	TV의 다른 프로그램 또는 비디오를 주화면 옆에 디스플레이합니다. ↑ 또는 ↓ 를 눌러 "꺼짐" 을 선택한 다음, (+) 를 누릅니다. 두화면을 취소하려면 두화면 을 누르거나 "꺼짐"을 선택한 후 (+) 를 누릅니다.
"채널색인"	여러 프로그램을 부화면에 디스플레이합니다. 취소하려면 채널색인 를 누릅니다.

일반 화면으로 돌아오려면

기능선택 을 누릅니다.

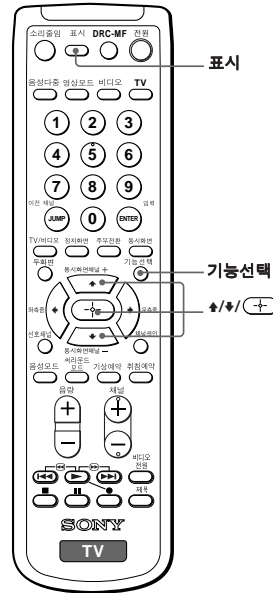
도움말

- 메뉴시스템 및 메뉴의 사용법에 대한 자세한 설명은 25 페이지의 "메뉴 시스템에 대하여" 를 참조하시기 바랍니다.

계속

“특정항목선택” 설정 변경하기

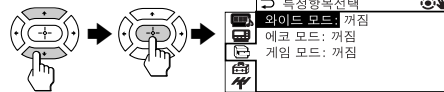
와이드 모드 (16:9) 영상 시그널을 수신할 때 “특정항목선택” 기능을 사용하여 화면의 크기를 조절할 수 있습니다. 그리고 방향 게임을 시청할 경우에는 비디오 게임에 적절한 화면을 설정하여 TV의 전력 소모를 줄일 수 있습니다.



1 기능선택 버튼을 누릅니다.

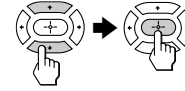



2 ↑ 또는 ↓ 버튼을 눌러 []를 선택한 다음, [] 버튼을 누릅니다.



“특정항목선택” 설정 변경하기 (계속)

3 ↑ 또는 ↓ 버튼을 눌러 원하는 옵션을 선택한 다음 (아래 표 참조), [] 버튼을 누릅니다.



선택 내용	설명
“와이드 모드”	와이드 모드 (16:9) 영상 시그널을 수신할 경우 화면의 크기를 조절합니다. ↑ 또는 ↓ 버튼을 눌러 “꺼짐”을 선택한 다음, [] 버튼을 누릅니다. 
“에코모드”	TV의 전력 소비량을 줄여 에너지를 절약합니다. ↑ 또는 ↓ 버튼을 눌러 “꺼짐”을 선택한 다음, [] 버튼을 누릅니다. 취소하려면 “꺼짐”을 선택한 다음, [] 버튼을 누릅니다.
“게임모드”	화면 설정을 비디오 게임에 알맞게 조절합니다. ↑ 또는 ↓ 버튼을 눌러 “꺼짐”을 선택한 다음, [] 버튼을 누릅니다. 취소하려면 “꺼짐”을 선택한 다음, [] 버튼을 누릅니다.

알아두십시오

- “에코모드”를 켜길 경우 화면이 어두워집니다. “에코모드”를 끄면 화면이 본래의 설정대로 되돌아 갑니다.
- “와이드 모드”와 “게임모드”는 TV의 측면과 뒷면에 있는 VIDEO 1, 2 또는 3, VIDEO 4 INPUT, S VIDEO 또는 COMPONENT VIDEO (DVD) IN 잭을 통하여 시그널을 수신받을 경우에만 가능합니다.
- “에코모드”가 켜져 있을 경우, TV를 켜거나 리모컨의 표시 버튼을 누르면 에코모드 (Eco) 아이콘이 화면의 오른쪽 아래 코너에 나타납니다 (10 및 11 페이지 참조).

일반 화면으로 돌아오려면

기능선택 버튼을 누릅니다.

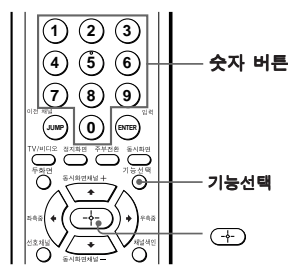
도움말

- 메뉴시스템 및 메뉴의 사용법에 대한 자세한 설명은 25 페이지의 “메뉴 시스템에 대하여”를 참조하시기 바랍니다.

계속

"설정" 내용 변경하기

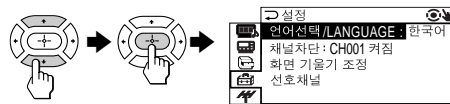
"설정" 메뉴를 사용하여 다음의 조작이 가능합니다: 메뉴 언어의 변경, 채널 잠금, 화면 위치의 조절 및 선호채널의 프로그래밍.



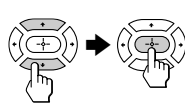
1 기능선택 을 누릅니다.



2 ↑ 또는 ↓ 를 눌러 를 선택한 다음, (+) 를 누릅니다.



3 ↑ 또는 ↓ 를 눌러 원하는 옵션을 선택한 다음 (아래 표 참조), (+) 를 누릅니다.



선택 내용	설명
"언어선택"	메뉴 언어를 변경합니다 (12 페이지 참조).
"채널차단"	채널을 차단시킵니다 (36 페이지 참조).
"화면 기울기 조정"	위치가 TV 화면에 맞추어 정렬되도록 조절할 수 있습니다. ↑ 또는 ↓ 를 눌러 화면의 위치를 시계방향으로 조절한 다음, (+) 를 누릅니다. ↑ 또는 ↓ 를 눌러 화면의 위치를 시계 반대방향으로 조절한 다음, (+) 를 누릅니다.
"선호채널"	선호채널을 선택합니다 (16 및 37 페이지 참조).

일반 화면으로 돌아오려면

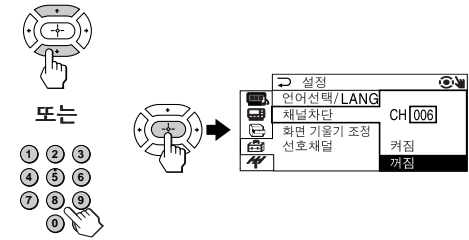
기능선택 을 누릅니다.

계속

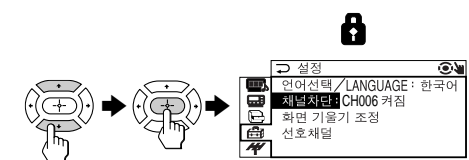
"설정" 내용 변경하기 (계속)

채널 잠금기능 ("채널차단")

1 "채널차단"을 선택한 다음
 ↑ 또는 ↓ 를 누르거나,
 또는 숫자 버튼 (또는
 채널 +/- 을 눌러 원하는
 채널(예: CH 006)을 선택
 한 후, (+) 를 누릅니다.



2 ↑ 또는 ↓ 를 눌러 "켜짐" 을 선택한 다음, (+) 를 누릅니다.



채널 차단을 해제하려면
 "꺼짐"을 선택하십시오.

"켜짐"으로 설정되었을 경우 잠금 심볼 (🔒)이 화면에 나타납니다.

차단된 채널이 선택되었을 경우, 잠금 심볼이 화면에 나타납니다.



3 1 단계와 2 단계를 반복하여 다른 채널들을 차단하십시오.


일반 화면으로 돌아오려면


기능선택 을 누릅니다.


알아두시다


- 채널의 자동 사전설정을 다시 하게되면, 차단된 모든 채널들이 해제됩니다 (38 페이지 참조).

선호채널 설정 변경하기

- 1 "선호채널"을 선택한 후 "선택모드"가 선택되었는지 확인한 다음, (+) 를 누릅니다.
 

선호채널	
선택모드	자동조정
1. CH001	
2. CH002	
3. CH006	
4. CH008	
- 2 ↑ 또는 ↓ 를 눌러 "수동조정"을 선택한 다음, (+) 를 누릅니다.
 

선호채널	
선택모드	수동조정
1. CH001	5. CH009
2. CH002	6. CH011
3. CH006	7. CH013
4. CH008	
- 3 ↑ 또는 ↓ 를 눌러 변경하고자 하는 프로그램을 선택한 다음, (+) 를 누릅니다.
 

선호채널	
선택모드	수동조정
1. CH001	5. CH009
2. CH002	6. CH011
3. CH006	7. CH013
4. CH008	
- 4 ↑ 또는 ↓ 를 눌러 번호를 변경한 다음, (+) 를 누릅니다.
 

선호채널	
선택모드	수동조정
1. CH001	5. CH009
2. CH002	6. CH011
3. CH005	7. CH013
4. CH008	
- 5 3 단계와 4 단계를 반복하여 다른 채널들을 설정하십시오.

일반 화면으로 돌아오려면

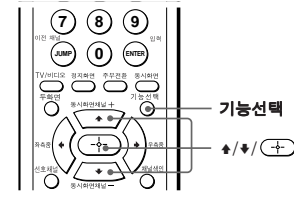
기능선택 을 누릅니다.


알아드립니다


- 위의 4 단계에서 채널 +/- 버튼 또는 숫자 버튼을 누를 경우, 선택된 채널이 즉시 TV 화면에 디스플레이 됩니다.


"채널사전설정" 변경하기

"채널사전설정" 메뉴를 사용하여 케이블 방송 TV 나 VHF 또는 UHF 방송의 수신에 따른 TV의 설정을 조절할 수 있으며, 시그널이 약하여 자동 채널사전설정에서는 잡히지 않는 채널을 수동으로 맞출 수가 있습니다.



- 1 기능선택 을 누릅니다.
 

AV 콘트롤	
DRC-MF: DRC1050	
영상모드: 생생한 화면	
음성모드: 생생한 음성	
세라운드 모드: 꺼짐	
디지털 입력: 꺼짐	
- 2 ↑ 또는 ↓ 를 눌러 [] 를 선택한 다음, (+) 를 누릅니다.
 

채널사전설정	
자동채널설정	
케이블방송: 켜짐	
추가/삭제: CH001 추가	
[] 안테나감지모드: 고설정	
- 3 ↑ 또는 ↓ 를 눌러 원하는 옵션을 선택한 다음, (+) 를 누릅니다.
 

선택 내용	설명
"자동채널설정"	채널을 자동으로 사전설정합니다.
"케이블방송"	케이블방송 TV가 설정됩니다.
"추가/삭제"	원하는 채널을 선택합니다.
"[] 안테나감지모드"	TV의 수신 감응도를 조절합니다.


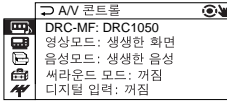



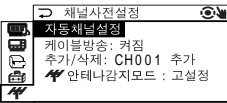


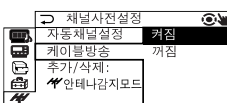
일반 화면으로 돌아오려면

기능선택 을 누릅니다.

도움말

- 메뉴시스템 및 메뉴의 사용법에 대한 자세한 설명은 25 페이지의 "메뉴시스템에 대하여"를 참조하시기 바랍니다.

케이블방송 켜짐 및 꺼짐 기능 사용하기

- 기능선택 버튼을 눌러 메뉴를 디스플레이합니다.
 

- ↑ 또는 ↓를 눌러 를 선택한 다음, (+)를 누릅니다.
 


- ↑ 또는 ↓를 눌러 "케이블 방송"을 선택한 다음, (+)를 누릅니다.
 


- ↑ 또는 ↓를 눌러 "켜짐" 또는 "꺼짐" 선택한 다음, (+)를 누릅니다.
 - "케이블방송:켜짐"을 선택하면 케이블방송 TV 프로그램이 수신됩니다. 만약 케이블방송 TV 프로그램이 없을 경우, VHF 또는 UHF 방송 채널이 수신됩니다.
 - "케이블방송:꺼짐"을 선택하면, VHF 또는 UHF 방송 채널만 수신됩니다.

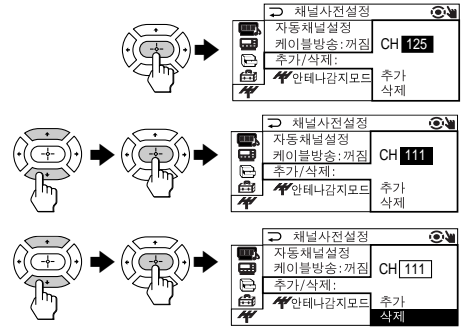
계속

"채널사전설정" 변경하기 (계속)

수동으로 채널 설정하기

1 추가/삭제를 선택한 후, 추가하거나 삭제할 프로그램의 번호를 선택하십시오.


- "CH"가 선택되었는지 확인 한 다음 (+)를 누릅니다.
- 추가하거나 삭제할 프로그램의 번호(예: 프로그램 번호 111)가 메뉴에 나타날 때 까지 ↑ 또는 ↓를 누른 다음, (+)를 누릅니다.
- ↑ 또는 ↓를 눌러 추가 또는 삭제를 선택한 다음, (+)를 누릅니다.

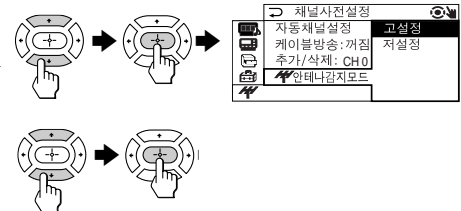


도움말

• 프로그램 번호는 채널 +/- 또는 숫자 버튼을 사용하여 선택할 수 있습니다.

2 TV의 시그널이 너무 강하거나 화면이 왜곡되어 나타날 경우에는 TV 수신 상태의 감응도를 조절해 주십시오.

- ↑ 또는 ↓를 눌러  안테나감지모드를 선택한 다음 (+)를 누릅니다.
- ↑ 또는 ↓를 눌러 저설정 을 선택한 다음 (+)를 누릅니다.



일반 화면으로 돌아오려면

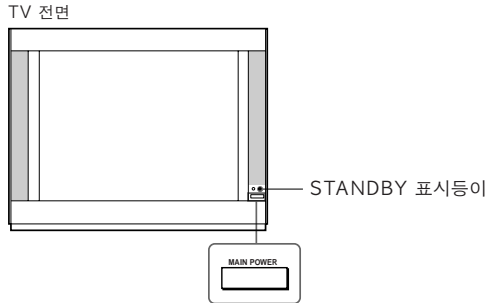
기능선택 버튼을 누릅니다.

알아두시라

- TV 수신상태의 감응도("안테나감지모드") 설정은 프로그램 번호별로 다르게 기억됩니다.
- 채널의 자동 사전설정을 다시 하게되면, 차단된 모든 채널들이 해제됩니다 (36 페이지 참조).

셀프-진단 기능

본 TV는 셀프-진단 기능을 가지고 있으며, TV에 이상이 있을 경우 STANDBY 표시등이 빨간색으로 깜박이게 됩니다. STANDBY 표시등이 깜박이는 숫자에 의해 고장의 원인을 식별할 수 있습니다.







- 1 STANDBY 표시등이 빨간색으로 약 3초 간격으로 수 차례 깜박이는지 확인하십시오.
- 2 STANDBY 표시등이 깜박이는 숫자를 기록하십시오.
- 3 MAIN POWER를 눌러 TV의 전원을 끄십시오.
- 4 가까운 소니 대리점에 연락하여 STANDBY 표시등이 깜박이는 숫자를 알려주십시오. 그리고 TV의 뒷면에 명시되어 있는 모델명과 일련번호도 참고자료로 함께 알려주십시오.

문제 해결

TV 시청 중에 문제가 발생할 경우 아래의 해결 방법을 참조하시기 바랍니다. 그래도 문제가 해결되지 않을 경우에는 가까운 소니 대리점에 연락하시기 바랍니다.

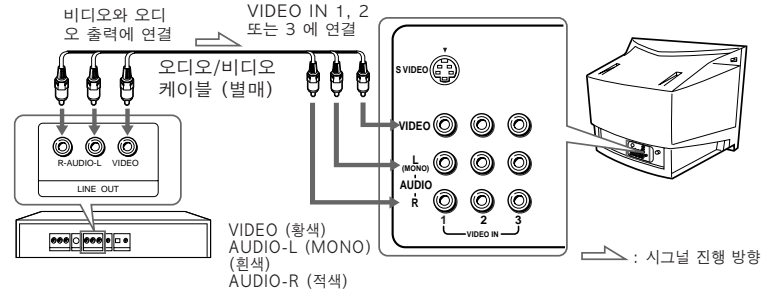
문제	원인	해결 방법	페이지
화면이 하얗게 되고 접음이 나뉘는다 	<ul style="list-style-type: none"> 코드의 연결이 느슨하거나 케이블이 손상되었습니다. 채널 설정이 올바르게 되지 않았거나 설정이 끝나지 않았습니다. 	<ul style="list-style-type: none"> 안테나 케이블을 확인 하고, TV와 VCR이 벽의 연결부에 제대로 연결이 되었는지 확인하십시오. 채널 설정을 다시 하십시오. 	4 40
소리에 잡음이 생긴다 	<ul style="list-style-type: none"> 안테나 타입이 올바르지 않습니다. 안테나 방향이 올바르지 않습니다. 시그널의 전송 속도가 느립니다. 	<ul style="list-style-type: none"> 안테나의 타입(VHF/UHF)을 확인하십시오. 또는 소니 대리점에 연락하여 조언을 요청하십시오. 안테나의 방향을 조절하십시오. 또는 소니 대리점에 연락하여 조언을 요청하십시오. 부스터를 사용해 보십시오. 	- - -
화면이 왜곡되어 나타난다 	<ul style="list-style-type: none"> 방송 시그널이 너무 강합니다. 	<ul style="list-style-type: none"> “채널사전설정” 메뉴에서 “안테나감지모드 : 저설정”로 설정을 하십시오. 부스터를 사용했을 경우, 전원을 끄거나 연결을 제거하십시오. 	40 -
소리에 잡음이 생긴다 	화면이 제대로 나옵니다 	<ul style="list-style-type: none"> 디지털 오디오 시그널이 올바르게 울바르지 않습니다. 	7, 30
소리에 잡음이 생긴다 	화면이 안나옵니다 	<ul style="list-style-type: none"> “A/V 콘트롤” 메뉴에서 “디지털 입력: 꺼짐”로 설정한 다음, 아날로그 오디오 시그널을 수신하기 위하여 TV의 COMPONENT VIDEO (DVD) IN의 L과 R을 연결하십시오. 	4
소리가 안나옵니다 	<ul style="list-style-type: none"> 전원 코드, 안테나 또는 VCR이 연결되지 않았습니다. TV가 켜지지 않았습니다. 	<ul style="list-style-type: none"> 전원 코드, 안테나 또는 VCR의 연결이 제대로 되었는지 확인하십시오. 전원 버튼을 누르십시오. TV의 MAIN POWER 버튼을 눌러 TV를 끈 다음 약 5초 후에 다시 켜십시오. 	10 11

문제	원인	해결 방법	페이지
화면은 제대로 나오지만. 	<ul style="list-style-type: none"> 음성 레벨이 너무 낮습니다. 음성이 소리 줄임 상태에 있습니다. 방송 시그널의 전송에 문제가 있습니다. 	<ul style="list-style-type: none"> 음량 + 또는 VOLUME + 를 눌러 음성이 커지게 하십시오. 소리줄임 을 눌러 소리 줄임을 해제하십시오. 음질이 나아질 때 까지 음성다중 를 누르십시오. 	11
소리가 나오지 않는다. 	<ul style="list-style-type: none"> 디지털 오디오 시그널이 올바르게 수신됩니다. "A/V 콘트롤" 메뉴의 "디지털 입력" 설정이 올바르게 설정되어 있지 않습니다. 	<ul style="list-style-type: none"> "A/V 콘트롤" 메뉴에서 "디지털 입력: 꺼짐"을 설정하고, TV의 COMPONENT VIDEO (DVD) IN 및 L과 R 잭을 연결하여 아날로그 오디오시그널을 수신하십시오. TV의 COMPONENT VIDEO (DVD) IN을 연결할 때, COMPONENT VIDEO (DVD) IN과 DIGITAL IN을 통하여 디지털 오디오 시그널을 수신하려면 "디지털 입력: 꺼짐"을 설정하고, COMPONENT VIDEO (DVD) IN 및 L과 R 잭을 통하여 아날로그 오디오시그널을 수신하려면 "디지털 입력: 꺼짐"을 설정하십시오. 	7, 30 30
잡선이나 줄이 생긴다. 	<ul style="list-style-type: none"> 자동차나 네온사인, 레이 드라이어, 또는 전력 발전기 등으로 인하여 전파의 수신에 방해가 생겼습니다. 	<ul style="list-style-type: none"> 헤어 드라이어나 기타 기기를 TV와 근접한 곳에서 사용하지 마십시오. 잡음이 최소한으로 줄어들도록 안테나의 방향을 조절하십시오. 그래도 해결이 안될 경우 소니 대리점에 연락하여 조언을 요청하십시오. 	-
이중 이미지 또는 "그림자"가 생긴다. 	<ul style="list-style-type: none"> 방송 시그널이 가까운 곳에 있는 산이나 건물에 반사되고 있습니다. 안테나의 방향이 올바르지 않습니다. 부스터를 사용하지 않습니다. 	<ul style="list-style-type: none"> 지향성이 강한 안테나를 사용하십시오. 안테나의 방향을 조절하십시오. 그래도 해결이 안될 경우 소니 대리점에 연락하여 조언을 요청하십시오. 부스터를 사용중일 경우 전원을 끄거나 연결을 제거하십시오. 	-
흑백으로 나온다. 	<ul style="list-style-type: none"> 색상 레벨의 설정이 너무 낮습니다. 색상 시스템의 설정이 올바르지 않습니다. 	<ul style="list-style-type: none"> "A/V 콘트롤" 메뉴를 디스플레이한 후, "영상모드"에서 "선택조정"을 선택한 다음, "색상" 레벨을 조절하십시오. 안테나의 방향을 조절하십시오. 그래도 해결이 안될 경우 소니 대리점에 연락하여 조언을 요청하십시오. 	29
색상이 고르지 않고 얼룩이 생긴다. 	<ul style="list-style-type: none"> 외장 스피커나 기타 기기로 부터 생긴 자기 방해 또는 대지의 자기 방향이 TV에 영향을 주고 있습니다. 	<ul style="list-style-type: none"> 외장 스피커나 외부 기기들을 TV로부터 멀리 떨어진 곳에 놓으십시오. TV가 켜진 상태에서는 절대로 TV를 이동하지 마십시오. TV의 MAIN POWER 버튼을 눌러 TV의 전원을 끈 다음 약 5분 후에 다시 켜십시오. 	-

외부 기기 연결하기 (계속)

DVD 플레이어를 VIDEO IN 1, 2, 또는 3 입력 단자에 연결하기

TV의 VIDEO 1, 2 또는 3 AUDIO/VIDEO 커넥터를 DVD 플레이어의 LINE OUT에 연결하십시오.



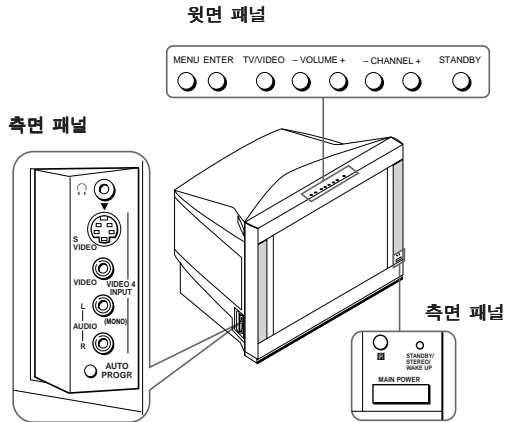
알아두십시오

- DVD 디스크의 고화질 화면에 담긴 많은 정보 용량으로 인하여 화면에 잡음이 생길 수도 있습니다. 이럴 경우, "영상모드" 메뉴의 "사용자 조정 메뉴"에서 선명 정도 ("선명도")를 조절하십시오 (29 페이지 참조).
- DVD 플레이어와 TV를 직접 연결하도록 하십시오. DVD 플레이어를 다른 비디오 기기를 통하여 연결할 경우 화면에 잡음이 생길 수도 있습니다.

계속

부품 및 콘트롤 점검하기

전면, 윗면 및 측면 패널

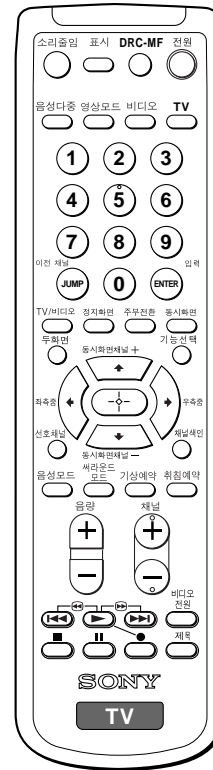


버튼	기능	페이지
측면 패널		
HEADPHONE	헤드폰 잭	-
AUTO PROGR	채널을 자동으로 사전설정합니다.	5
측면 패널		
MAIN POWER	TV의 전원을 완전히 끄거나 켭니다.	10
윗면 패널		
STANDBY	TV의 전원을 일시적으로 끄거나 켭니다.	10
CHANNEL +/-	프로그램 번호를 선택합니다.	10
VOLUME +/-	음량을 조절합니다.	11
TV/VIDEO	TV 또는 비디오 입력을 선택합니다.	11
ENTER	선택된 항목을 확인합니다.	27
MENU	메뉴를 디스플레이합니다.	27

계속

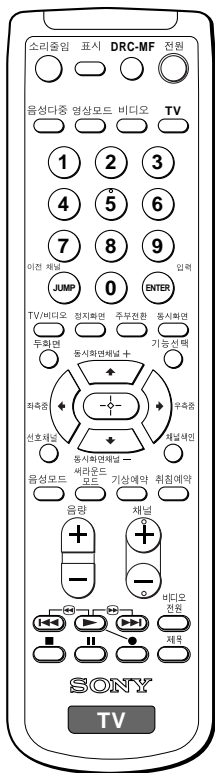
부품 및 콘트롤 점검하기 (계속)

리모콘



버튼	기능	페이지
전원	TV를 일시적으로 끄거나 켭니다.	10
채력 +/-	프로그램 번호를 선택합니다.	10
0 - 9	숫자를 입력합니다.	10
입력 (ENTER)	입력한 숫자를 실행시킵니다.	10
표시	화면상의 정보를 디스플레이합니다.	11
소리줄임	음성을 일시적으로 소거합니다.	11
TV	TV 프로그램을 디스플레이합니다.	11
비디오	TV 또는 비디오 입력을 선택합니다.	11
음량 +/-	음량을 조절합니다.	11
이전 채널 (JUMP)	이전 채널로 돌아옵니다.	11
타이머 조작		
기상예약	TV가 자동으로 켜지도록 설정합니다.	13
취침예약	TV가 자동으로 꺼지도록 설정합니다.	13
음성모드	음향 모드를 선택합니다.	14
영상모드	영상 모드를 선택합니다.	14
DRC-MF	DRC-MF 모드를 선택합니다.	15
좋아하는 채널 시청하기		
선호채널	좋아하는 채널을 디스플레이합니다.	16
	원하는 채널을 선택합니다.	16
동시 화면(PIP)과 트윈 픽처 조작		
동시화면	동시 화면을 디스플레이합니다.	17
두화면	두화면 픽처를 디스플레이합니다.	17
(우측줌), (좌측줌)	트윈 픽처의 크기를 조절합니다.	18
(동시화면채널 +), (동시화면채널 -)	동시 화면 과 트윈 픽처에서 프로그램을 변경합니다.	18
TV/비디오	동시 화면 과 트윈 픽처 모드로 비디오 입력을 선택합니다.	18
주부전환	주화면과 동시 화면/트윈 픽처 모드 간을 전환합니다.	18
정지화면	동시 화면 을 일시 정지시킵니다.	18

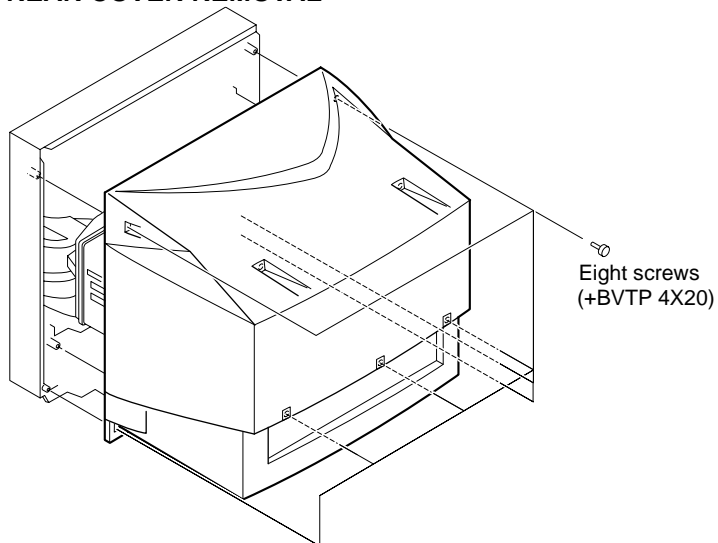
리모콘



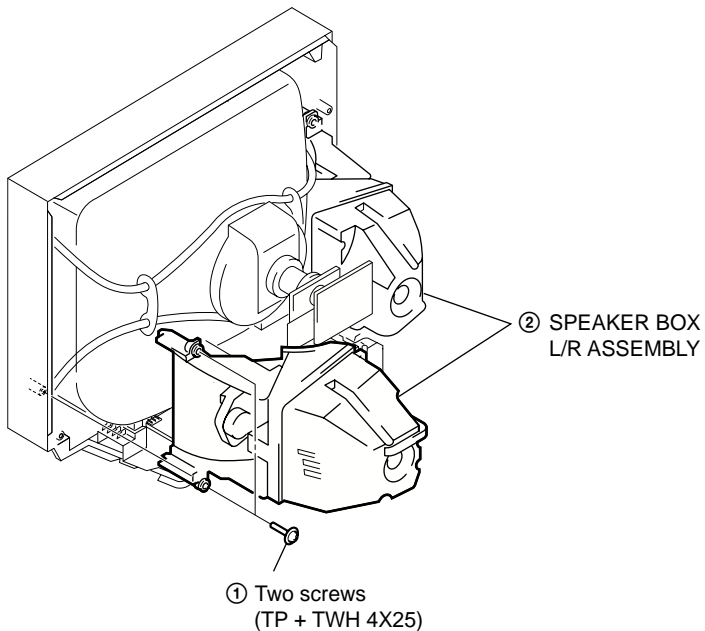
버튼	기능	페이지
채널 색인 조작 채널 색인	사전설정된 모든 TV 프로그램을 디스플레이합니다.	19
채널 +/-	12 개의 이전/다음 TV 프로그램을 디스플레이합니다.	20
▲, ▼, ◀, ▶, (+)	원하는 채널을 선택합니다.	20
썸리운드 모드	썸리운드 모드를 선택합니다.	21
스테레오/음성다중 조작 음성다중	스테레오/음성다중 모드를 선택합니다.	22
외부 기기 조작 비디오 전원	전원을 켜고 리모콘을 설정합니다.	23
0 - 9	리모콘을 설정합니다.	23
제목	타이틀 메뉴를 디스플레이합니다.	24
▶	재생	24
▶▶	고속감기/앞으로 검색	24
◀◀	되감기/뒤로 검색	24
●	녹음	24
■	정지	24
	일시정지	24
메뉴 조작 기능선택	메뉴를 디스플레이합니다.	27
▲, ▼, ◀, ▶, (+)	항목의 선택 및 조절, 그리고 선택된 항목을 확인합니다.	27

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

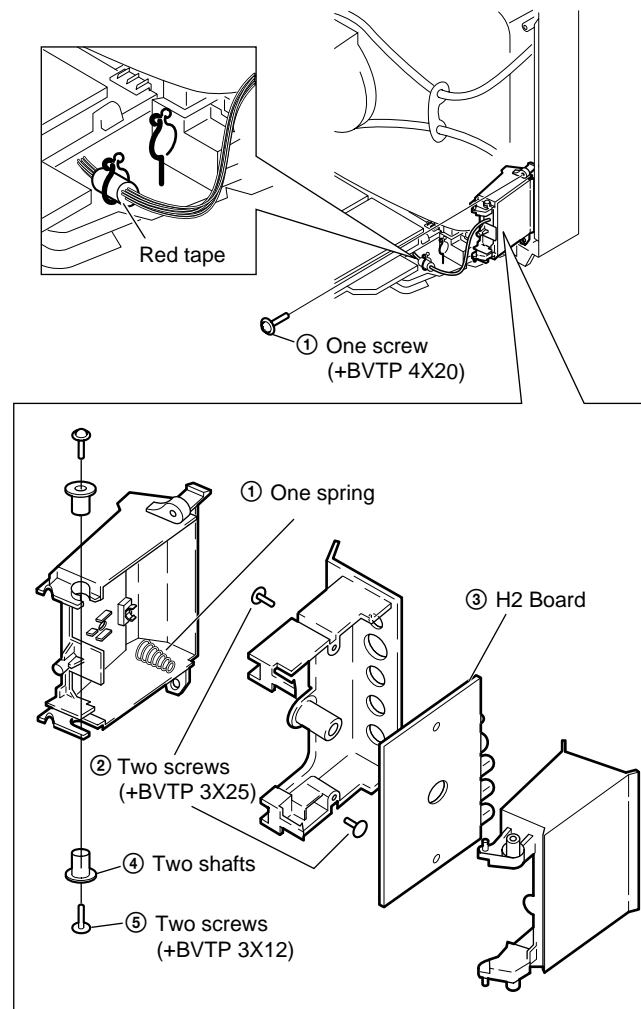


2-2. SPEAKER BOX REMOVAL

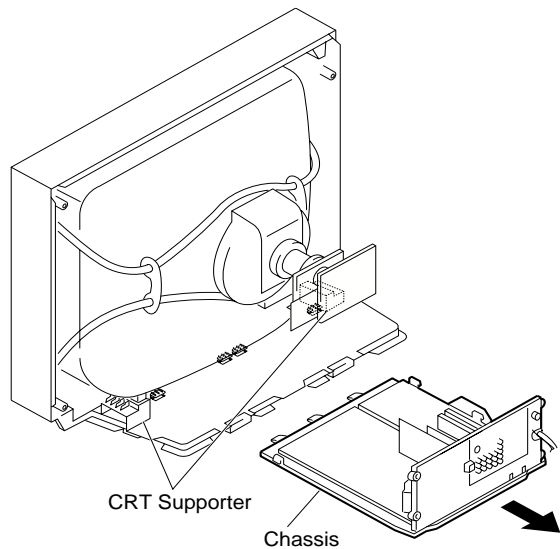


2-3. H2 BOARD REMOVAL

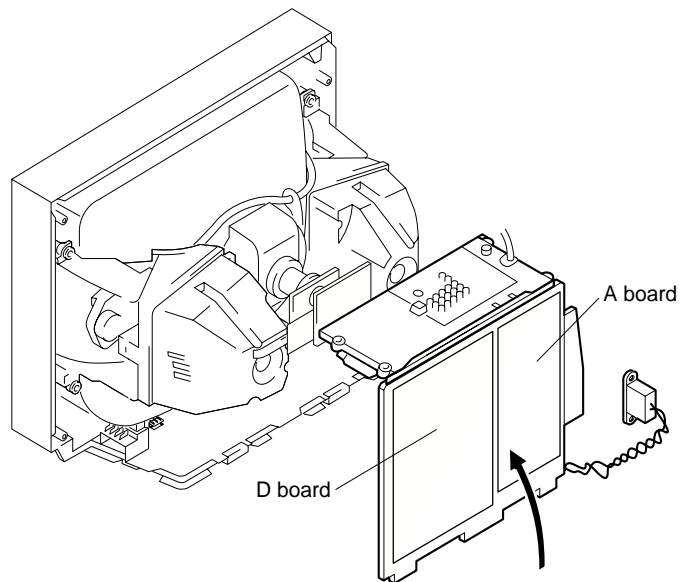
Caution: Please make sure that the red colour taped point is just placed with the purse lock when treating the leads to H2 board. If lead treatment is wrongly arranged, it will affect the door opening and closing malfunction.



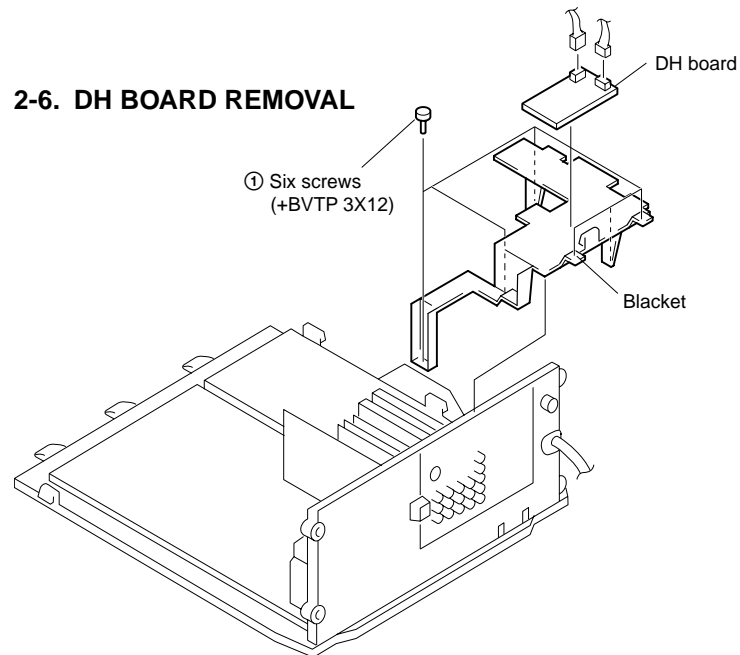
2-4. CHASSIS ASSY REMOVAL



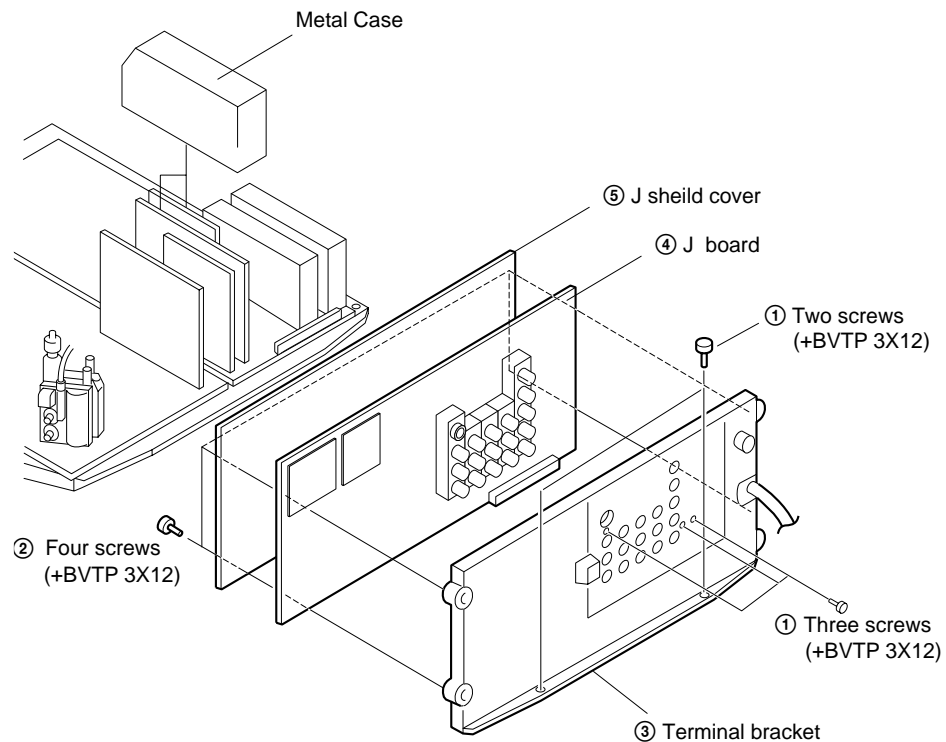
2-5. SERVICE POSITION



2-6. DH BOARD REMOVAL

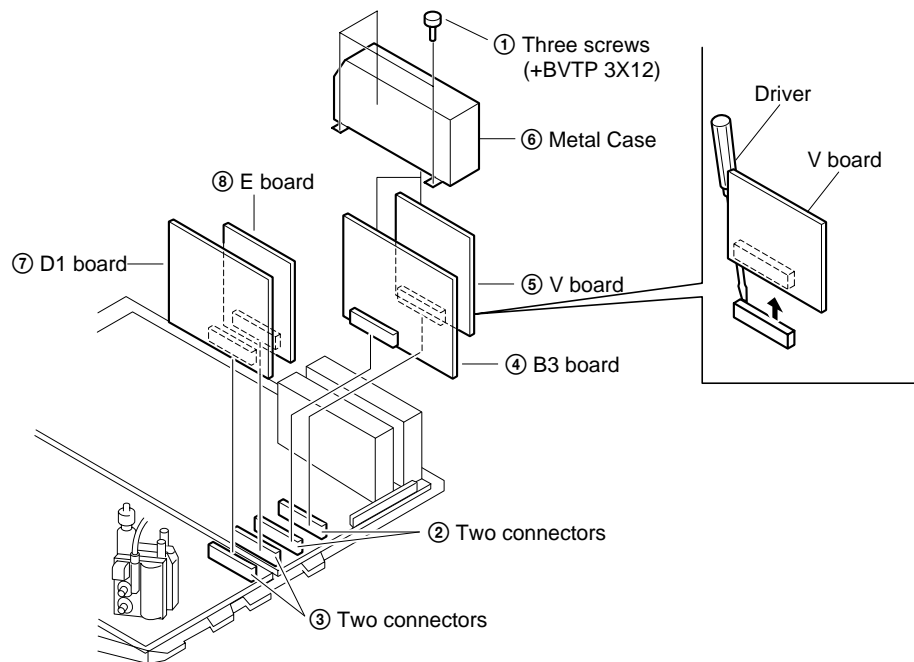


2-7. J BOARD REMOVAL

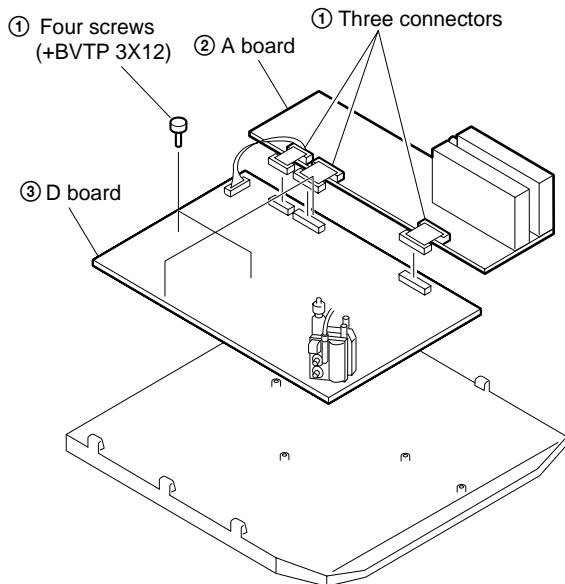


2-8. B3, D1 AND E BOARDS REMOVAL

NOTE : V Board is not used for this model.

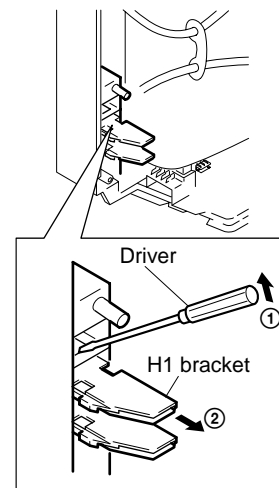


2-9. A AND D BOARDS REMOVAL



2-10. H1 BOARD REMOVAL

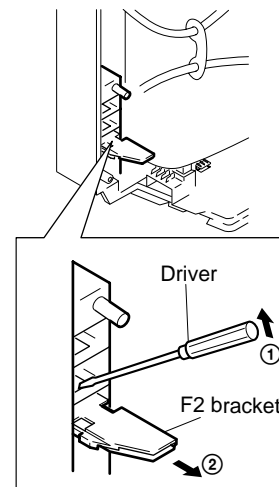
NOTE : Push the hook down using the tip of a screwdriver and at the same time pull the H1 bracket.



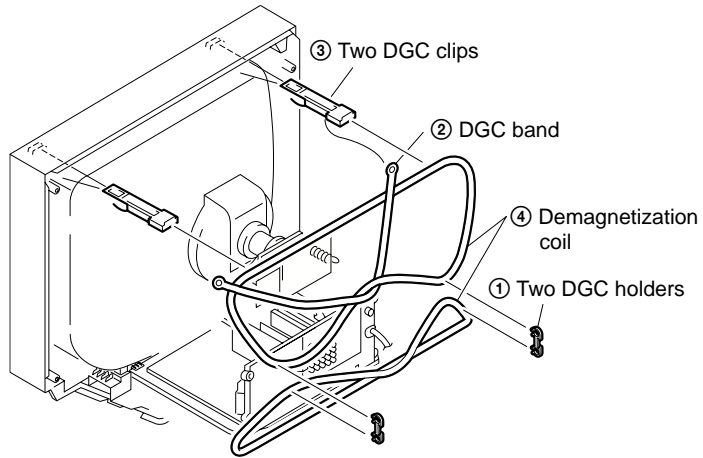
2-11. F2 BOARD REMOVAL

NOTE : To remove F2 board, firstly remove the H1 board. Then, push the hook down using the tip of a screwdriver and at the same time pull the F2 bracket.

Caution : When removing the F2 board, please turn off the main AC supply and disconnect the AC plug.

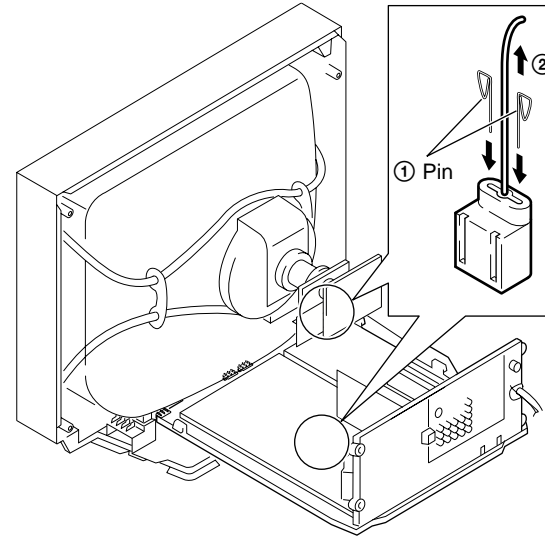


2-12. DEMAGNETIZATION COIL REMOVAL



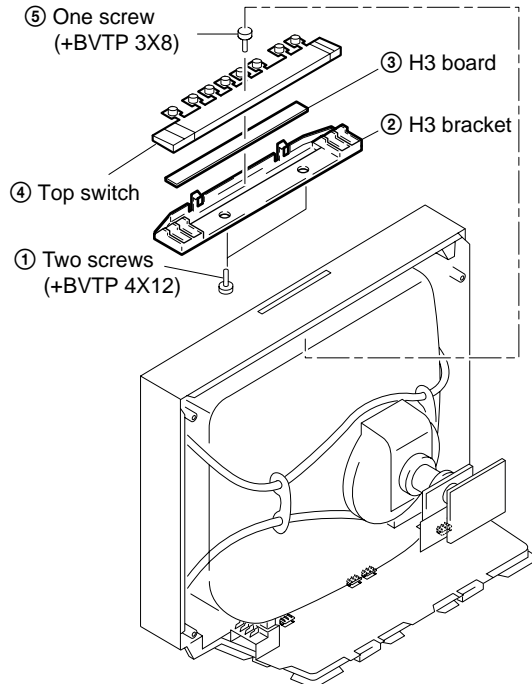
2-14. G2 LEAD REMOVAL

NOTE : Insert pin to both edge holes on socket and release the lock.



2-13. TOP SWITCH REMOVAL (H3 BOARD REMOVAL)

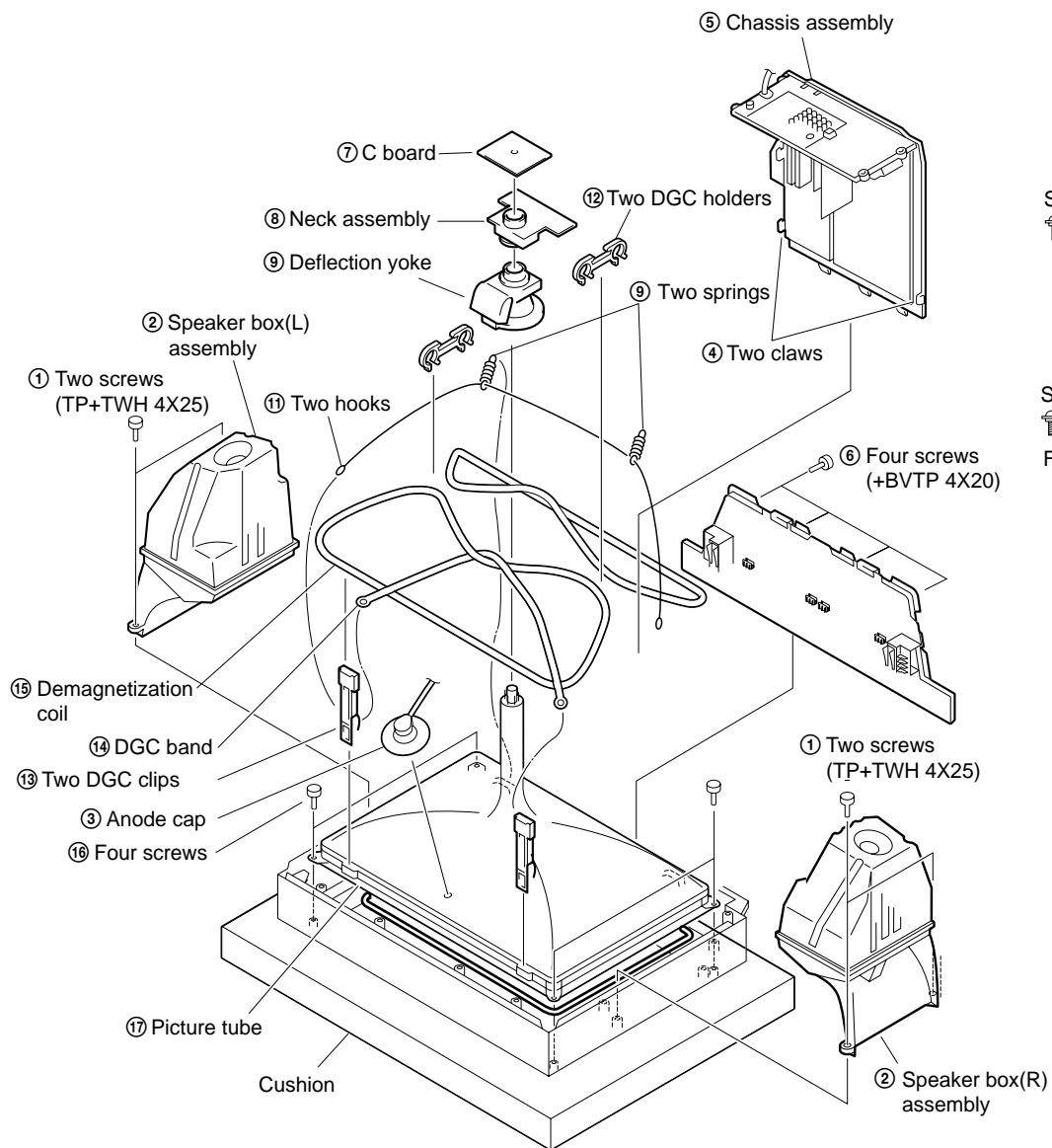
NOTE : To remove H3 board, the CRT has to be removed first.



2-15. PICTURE TUBE REMOVAL

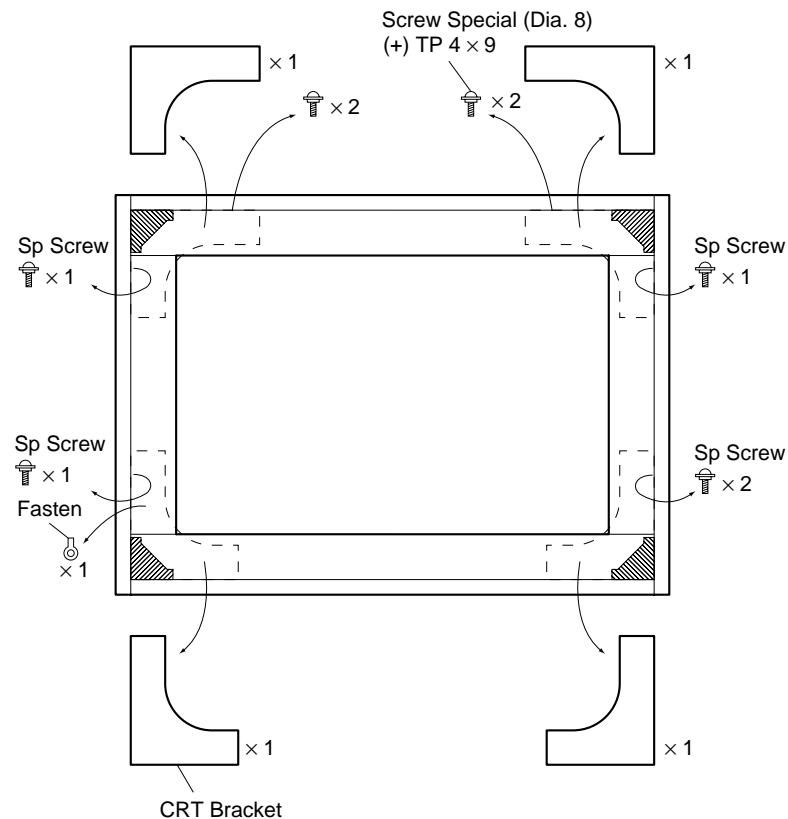
NOTE :i) Prior to picture tube removal, please remove the front cover first.

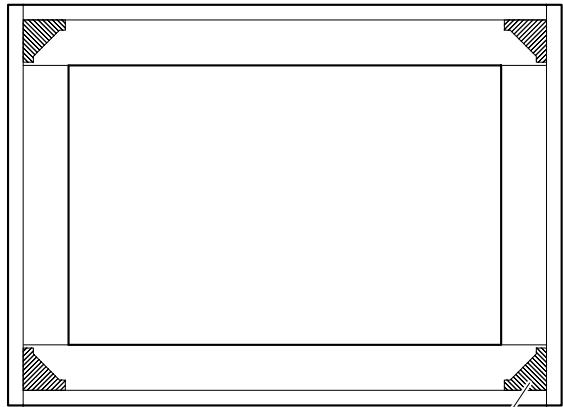
Caution : Aluminium frame is easily scratched if extra caution is not taken when handling it.



2-16. FRAME SUB-ASSY DISASSEMBLY

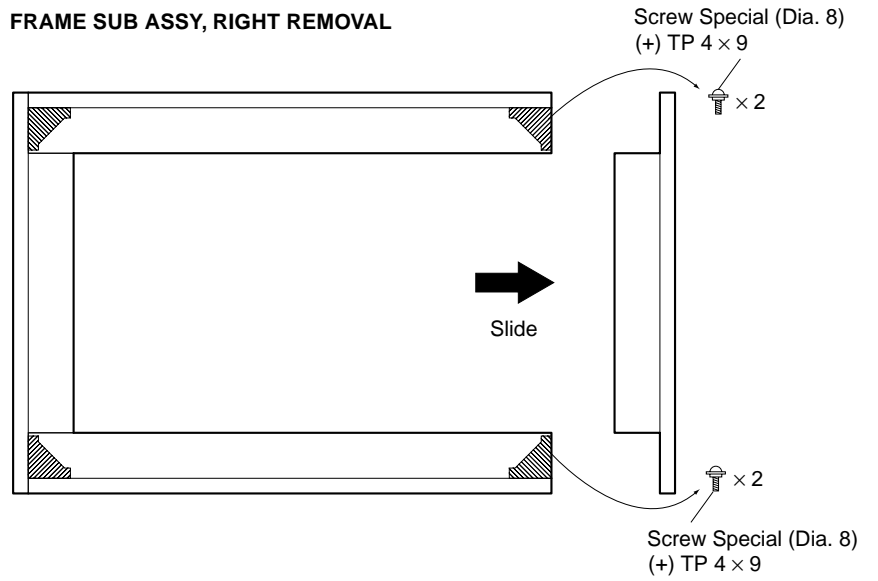
①



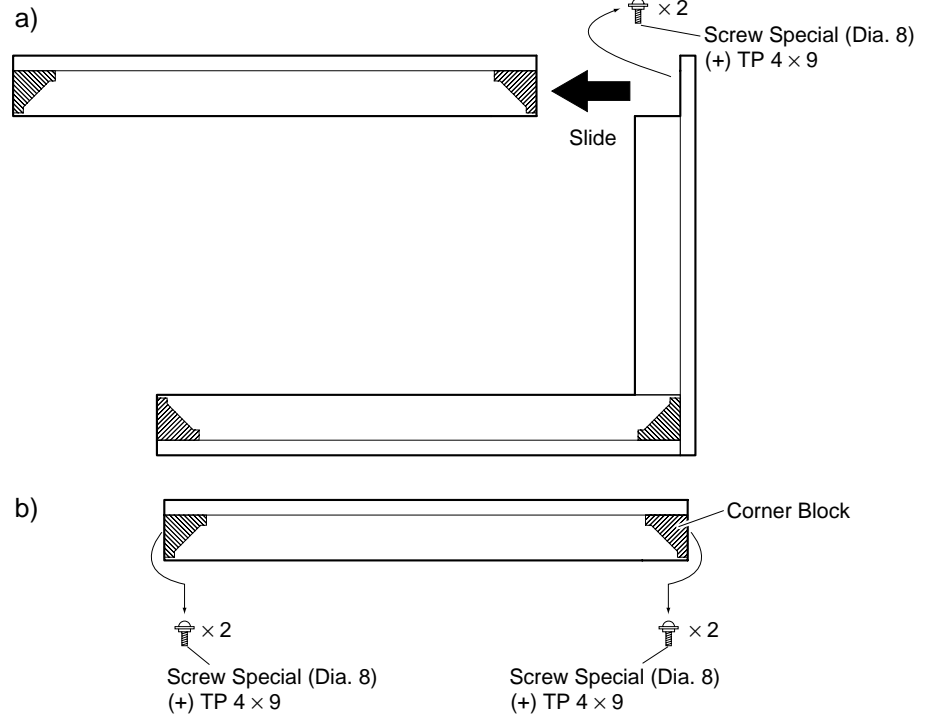


Corner Block

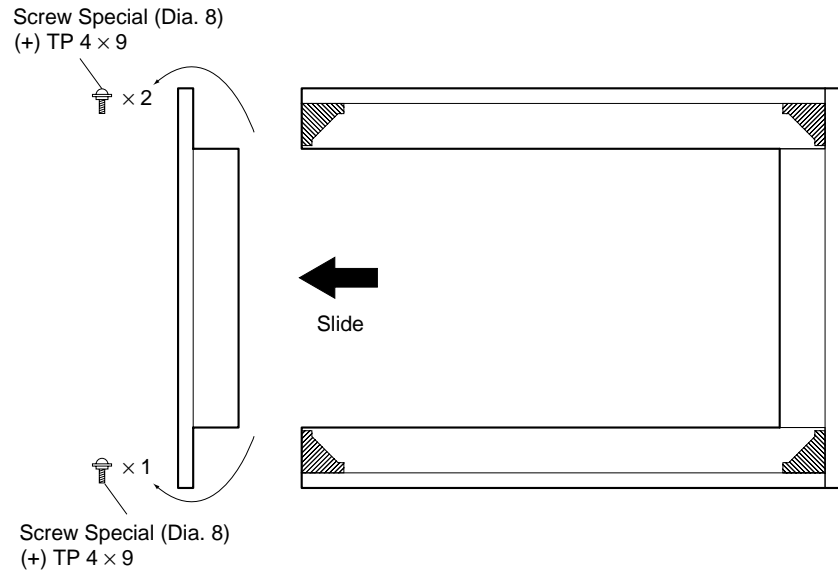
FRAME SUB ASSY, RIGHT REMOVAL



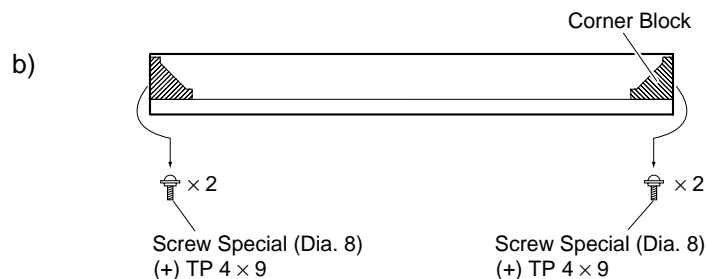
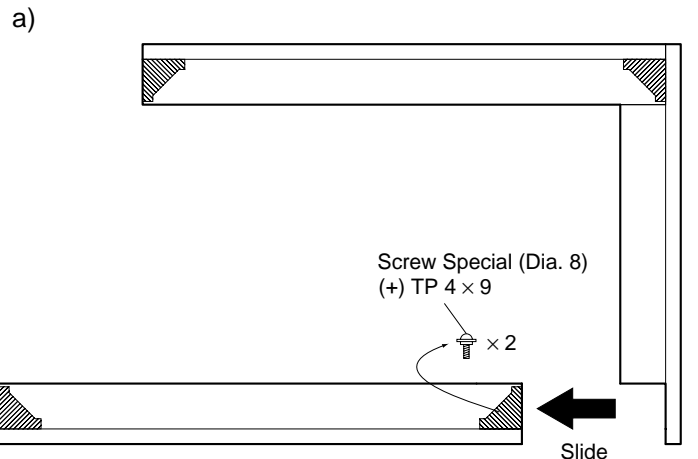
FRAME SUB ASSY, TOP REMOVAL



FRAME SUB ASSY, LEFT REMOVAL



FRAME SUB ASSY, BOTTOM REMOVAL

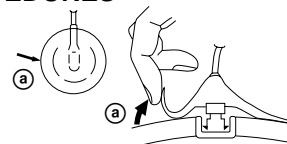


NOTE : When replacing the Frame Sub-Assy Top and Bottom, fix the original corner block to the new part.

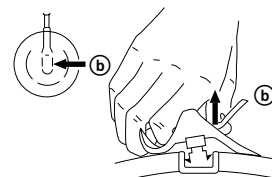
•REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

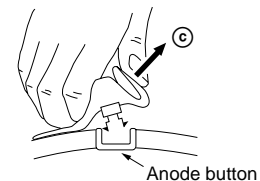
•REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow a.



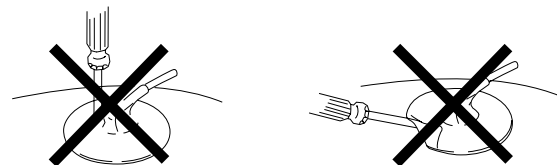
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow b.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow c.

• HOW TO HANDLE AN ANODE-CAP

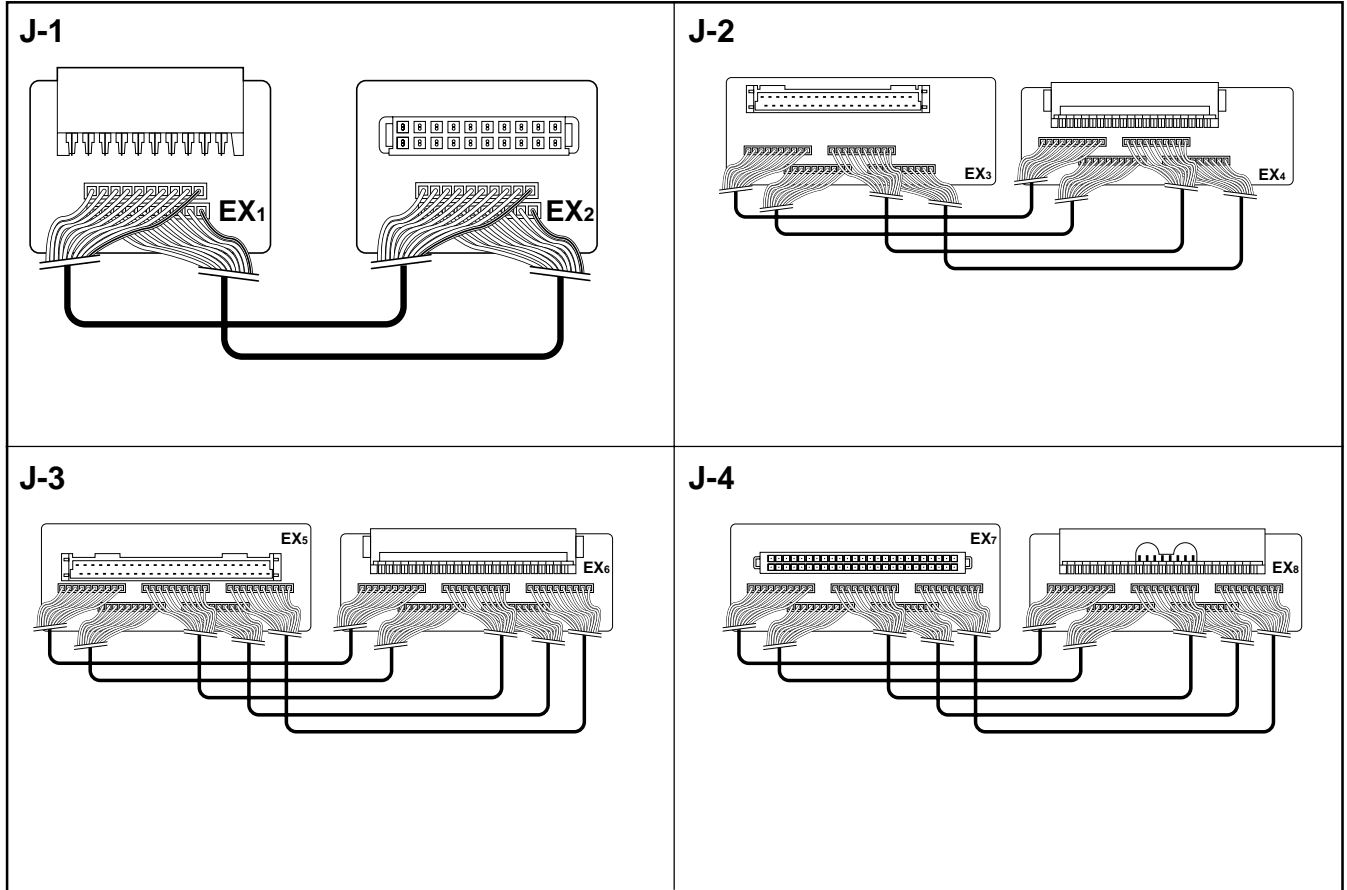
- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



SECTION 3 SERVICE JIG

3-1. JIGS REQUIRED FOR SERVICING

REF NO.	DESCRIPTION	PART NO.	REMARK
J-1	TOOL (20P), SERVICE	3-702-763-01	For A to V board extension
J-2	TOOL (40P), SERVICE	3-702-764-01	For A to E board extension
J-3	TOOL (50P-A), SERVICE	3-702-765-01	For A to B3 board extension
J-4	TOOL (50P-J), SERVICE	3-702-766-01	For A to J board extension For D to D1 board extension



SECTION 4 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:
 PICTURE control normal
 BRIGHTNESS control normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

4-1. BEAM LANDING

1. Input a white signal with the pattern generator.
 Contrast } normal
 Brightness }
2. Position neck assy as shown in Fig4-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
 (See Figures 4-1 through 4-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 4-2.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Figure 4-4.)

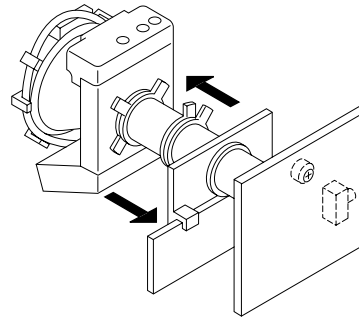


Fig. 4-2

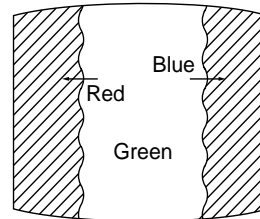


Fig. 4-3

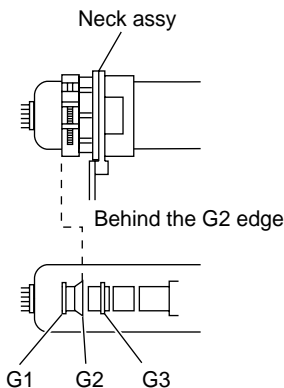


Fig. 4-1

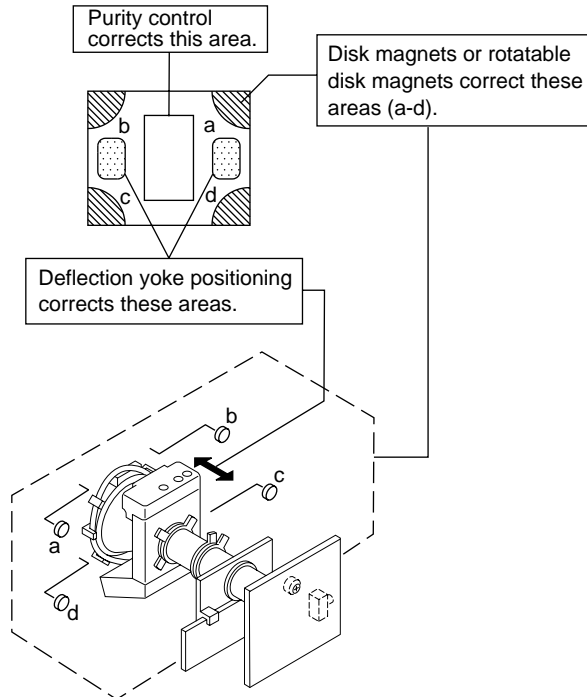


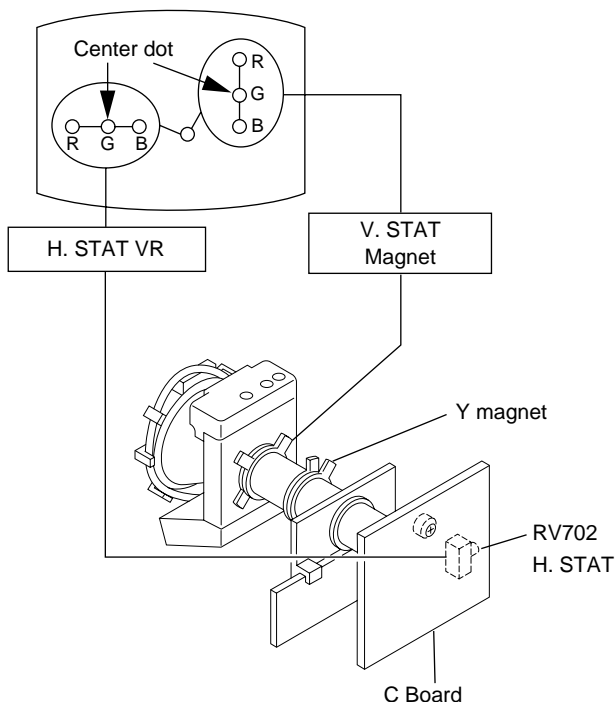
Fig. 4-4

4-2. CONVERGENCE ADJUSTMENT

Preparation :

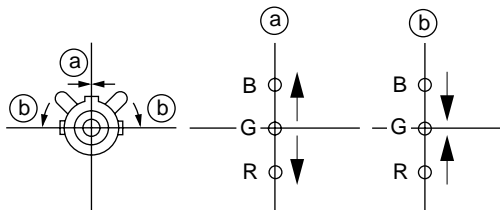
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the Picture Mode to "STANDARD".
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

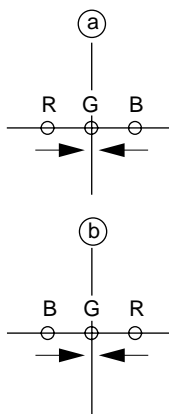


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. Adjust Horizontal Trapezoid with "DAC 04 HTR" in Service Mode to make H-Trapezoid distortion best.
4. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

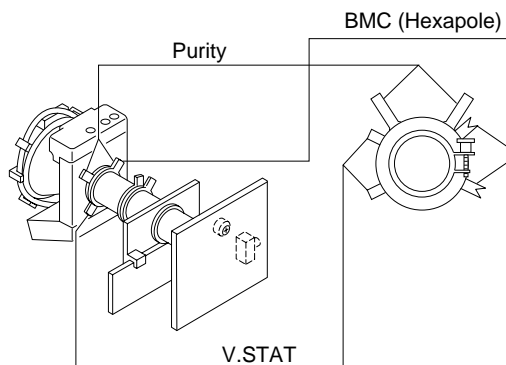
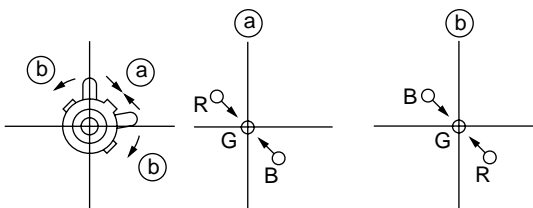
① V. STAT



② H. STAT VR

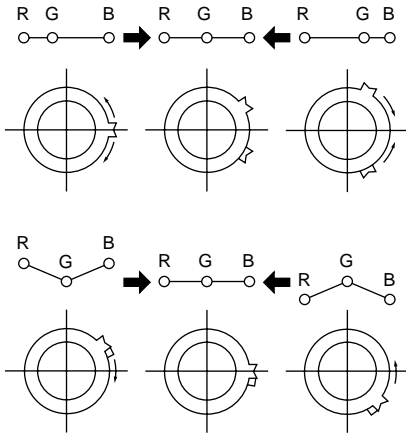


③



④ BMC (Hexapole) Magnet.

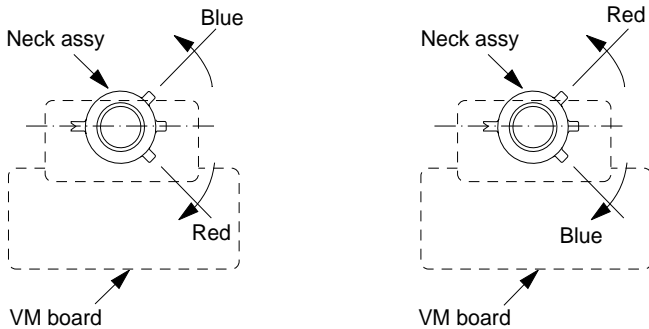
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .

2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

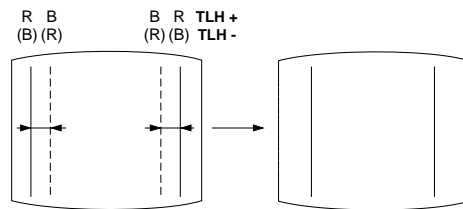
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH correction piece)

- ① Receive the dot/hatch pattern signal and adjust picture quality by the menu.
- ② Correct horizontal mis-convergence of red and blue of both sides on the X axis.

When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL-) and take both sides.



2. Adjust XCV core.

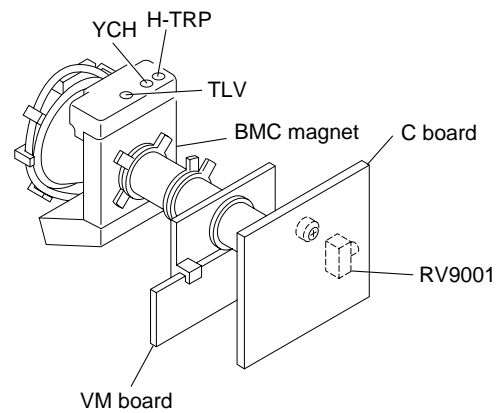
To able to become balance of XCV on the X axis well.

3. Adjust V-TILT.

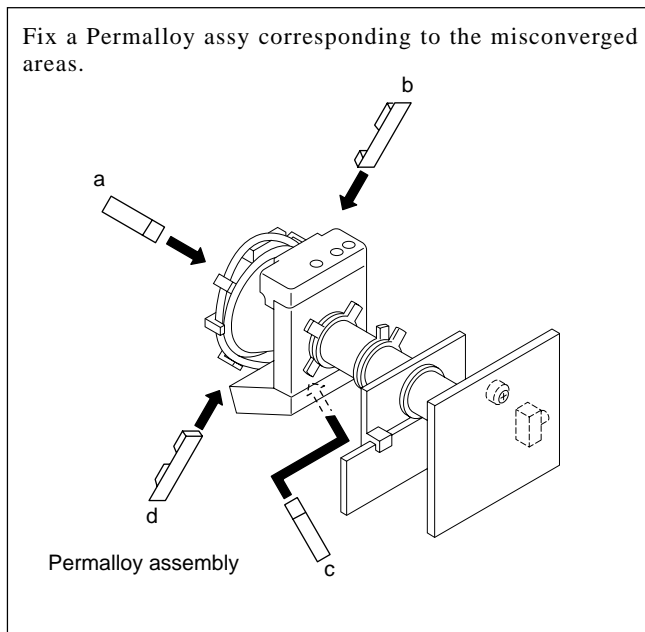
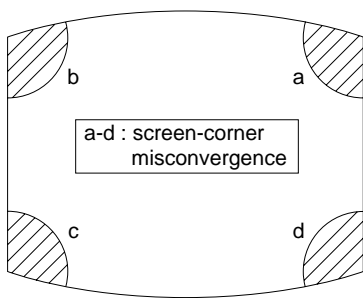
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

4. Adjust YCH.

Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence

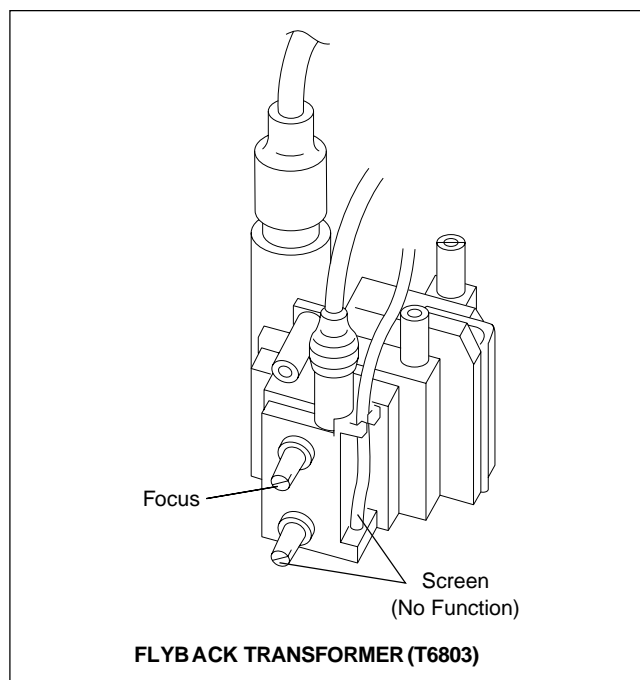


4-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

- (1) Receive digital monoscope pattern.
- (2) Set "A/V CONTROL" to "STANDARD".
- (3) Adjust FOCUS VR so that the center of the screen becomes just focus.
- (4) Change the receiving signal to white pattern and blue back.
- (5) Confirm MAGENTA RING should not be over the limit sample. In case MAGENTA RING is over the limit sample, adjust FOCUS VR to take tracking of MAGENTA RING and FOCUS.



4-4. NECK ASSY TWIST ADJUSTMENT

- (1) Receive dot/hatch pattern.
- (2) Turn FOCUS VR fully counter-clockwise.
- (3) Confirm the dot shape at the screen center. (Fig. 4-4)
- (4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

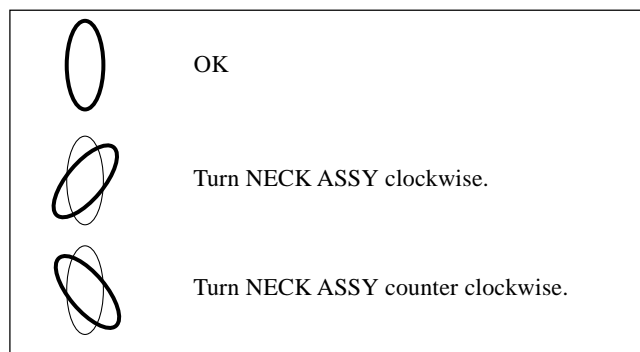
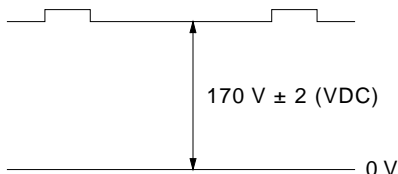


Fig. 4-4

4-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C board cathode to the oscilloscope.
- 4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
- 5) Whilst watching the picture, adjust the screen VR (RV9002) located on the C board to the point just before the flyback re-return lines disappear (to the point before cut-off)



2. WHITE BALANCE ADJUSTMENT

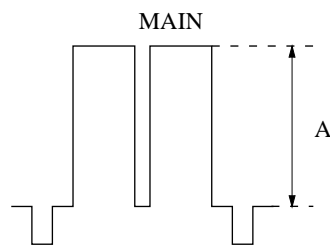
- 1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- 3) Set the following condition.
PICTURE minimum, BRIGHTNESS 50%
- 4) Select GCT (WHB 7) and BCT (WHB 8) with **[1]** and **[4]**, and adjust the level with **[3]** and **[6]** for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 4) and BDR (WHB 5) with **[1]** and **[4]**, and adjust the level with **[3]** and **[6]** for the best white balance.
- 7) Write into the memory by pressing **[MUTING]** then **[0]**.

3. SUB PICTURE BRIGHTNESS ADJUSTMENT

- 1) Tune RF PAL white signal at program No. 1 and No. 2.
- 2) Select "TWIN PICTURE" mode.
- 3) Receive different RF PAL white signals in MAIN and Sub picture.
- 4) Adjust RV3300 on A PWB, so that the output from the 17 pin and 20 pin of the CN1180 becomes within the spec.

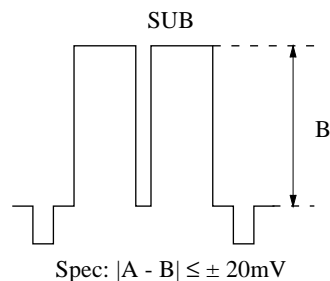
CVBS 1

17 pin



CVBS 2

20 pin

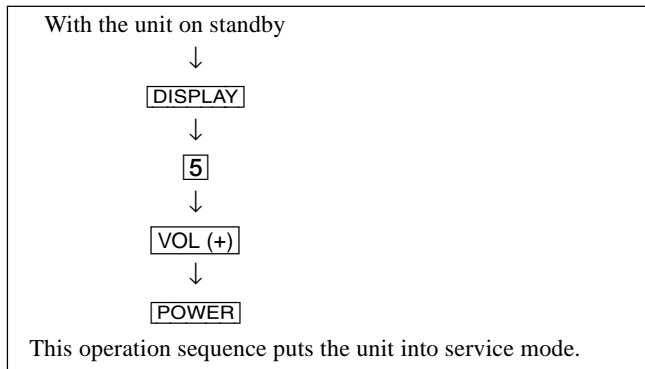


SECTION 5 CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-959 that comes with this unit.

a. ENTERING SERVICE MODE



b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander), then press **POWER** button again, hereupon it becomes TV mode.

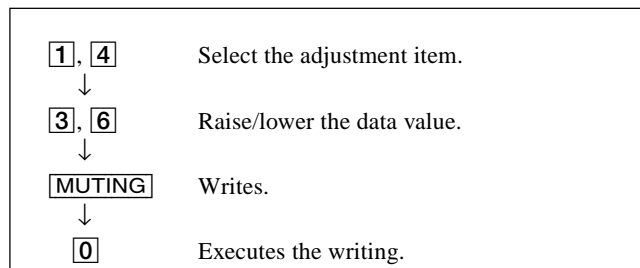
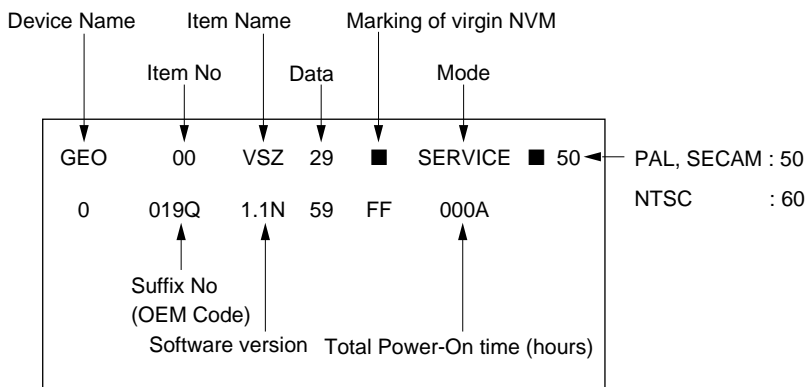
c. METHOD OF WRITE INTO MEMORY

- 1) Set to Service Mode.
- 2) Press **[1]** (UP) and **[4]** (DOWN), select an item of adjustment.
- 3) Press **MUTING** button and it will indicate WRITE on the screen.
- 4) Press **[0]** button to write into memory.

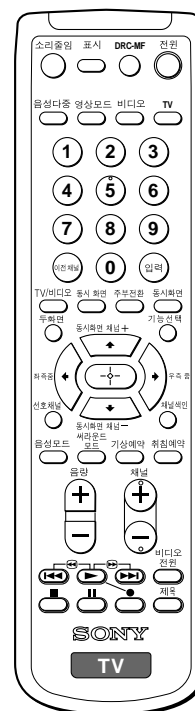
d. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.

The screen display is :



- [7], [0]** All the data becomes the values in memory.
- [8], [0]** All user control goes to the standard state.
- [5], [0]** Service data initialization (Be sure not to use usually.)
- DISPLAY, [0]** Write 50Hz adjustment data to 60Hz, or vice versa.
- [2], [0]** Copy and write all data.



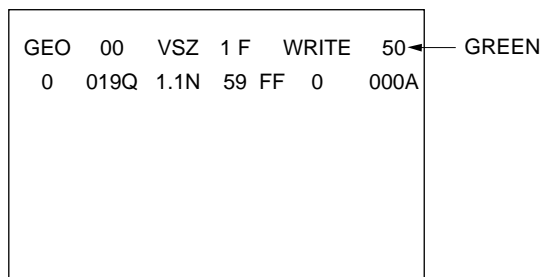
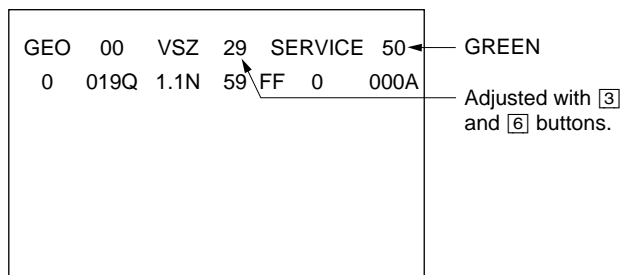
RM-959

5-2. ADJUSTMENT METHOD

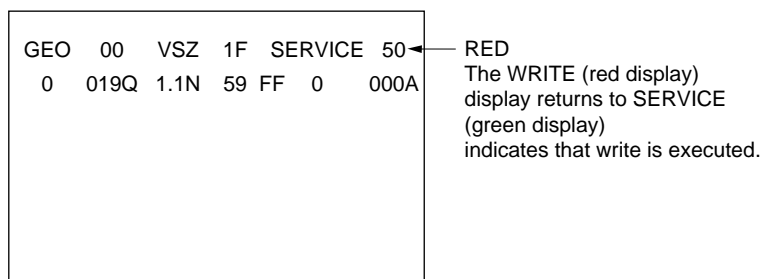
Item Number 00 of device GEO

This explanation uses V-size as an example.

1. Select "GEO 00 VSZ" with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the **[MUTING]** button. (The display changes to WRITE.)
5. Execute the writing with the **[0]** button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)



Written with **[MUTING]**



Write executed with **[0]**

Use the same method for all Items. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **[MUTING]**, then execute the write with **[0]**.

- Note :**
1. In **[WRITE]**, the data for all items are written into memory together.
 2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.
 3. Additional function to skip category (device) to category (device).

example:

```
GEO 00 VSZ
  ↓
DAC 00 XXX
```

The buttons for the function above should be cursor +/-.

SERVICE LIST ITEM

TVG	Functionality		Function	50 (PAL)																Eco Mode				60 (NTSC)								Device Name					
				50 (PAL)								Eco Mode				60 (NTSC)																					
				DRC 1050	DRC 1050 V	Progressive	Progressive V	PinP	PinP V	INDEX	TWIN	Eco On	Eco Off	Eco On V	Eco Off V	DRC 1050	DRC 1050 V	Progressive	Progressive V	PinP	PinP V	INDEX	TWIN														
GEO	00	VSZ	V SIZE	1E	1E	1E	1E	1E	1E	1E	1E					1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	CXA2100AQ			
	01	VPS	V POSITION	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28		28	28	
	02	VLN	V LINEARITY	06	06	06	06	06	06	06						06	07	06	07	06	07																
	03	SCO	S CORRECTION	0A	0A	0A	0A	0A	0A	0A						09	09	09	09	09	09																
	04	HSZ	H SIZE	1F	1F	1F	1F	1F	1F	1F	1B					1E	1E	1E	1E	1E	1E	1E	1E	1F	1D												
	05	HPS	H POSITION	3B	3A	3B	3A	3B	3A	3B	3B					31	30	31	30	31	30	31	30	37	31												
	06	DVH	H POSITION OFFSET FOR DVD	09												07																					
	07	PAP	PIN AMP	33	33	23	33	33	33	33						34	32	34	32	34	32																
	08	UPN	UPPER CORNER PIN	26	26	26	26	26	26	26	27					25	2A	25	2A	25	2A	25	2A	25	25												
	09	LPN	LOWER CORNER PIN	23	21	26	26	26	26	26	26					23	24	23	24	23	24	23	24	23	23												
	0A	TRZ	TRAPEZIUM	0A	0A	0A	0A	0A	0A	0A	0A					08	09	08	09	08	09	08	09	09	06												
	0B	AGL	AFC ANGLE	08	08	08	08	08	08	08						0A	0A	0A	0A	0A	0A	0A	0A														
	0C	BOW	AFC BOW	08	08	08	08	08	08	08						09	08	08	09	08	09																
	0D	LBL	LEFT H BLANKING	11	11	11	11	11	11	11	11					1C	1C	1C	1C	1C	1C	1C	1C	1C	1C												
	0E	RBL	RIGHT H BLANKING	2C	2C	2C	2C	2C	2C	2C	2C					23	23	23	23	23	23	23	23	23	23												
	0F	MPN	MIDDLE PIN DISTORTION COMPENSATION	00	00											00	00																				
	10	UVL	UPPER V LINEARITY	00												00																					
	11	LVL	LOWER V LINEARITY	00												00																					
	12	HCP	HORIZONTAL HIGH VOLTAGE COMPENSATION	00	00											00	00																				
13	VCP	VERTICAL HIGH VOLTAGE COMPENSATION	00	00											00	00																					
14	VAS	V ASPECT	2F	2F	2F	2F	2F	2F	2F	2F					2F	30	2F	30	2F	2F	30	2E															
15	VSC	V SCROLL	22	22	22	22	22	22	22	22					22	26	21	25	22	25	21	21															
16	USC	UNDER-SCAN MODE ON/OFF	00	01											00	01																					
17	VBW	V BLANKING WIDTH CONTROL	00	03	00	03	00	03							00	03	00	03	00	03																	
18	AT1	AKB REFERENCE TIMING	02	03	02	03	02	03							02	03	02	03	02	03																	
19	CPY	COPY THE GEO DATA TO ALL 50/60Hz NVM AREA													00																						
DAC	00	HCT	H CENTER	4A											4A																				MB88141		
	01	HLN	H LINEARITY	31	31	31	31	31	31	31					31	31	31	31	31	31																	
	02	MDP	MIDDLE PIN	20	20	20	20	20	20	20					20	20	20	20	20	20																	
	03	CCP	LOWER CORNER PIN	10	10	10	10	10	10	10					10	10	10	10	10	10																	
	04	HTR	HORIZONTAL TRAPEZIUM	1F	1F	1F	1F	1F	1F	1F					1F	1F	1F	1F	1F	1F	1F																
	05	DF	DF ON/OFF SWITCH	01	01	01	01	01	01	01					01	01	01	01	01	01	01																
	06	DPH	DF PHASE	23	23	23	23	23	23	23					20	1F	20	1F	20	1F	20	1F															
	07	QPH	QP PHASE	13	13	13	13	13	13	13					10	0F	10	0F	10	0F	10	0F															
	08	QAC	QP AMPLITUDE	24	24	24	24	24	24	24					24	24	24	24	24	24	24																
	09	QDC	QP DC LEVEL	1E	1E	1E	1E	1E	1E	1E					1E	1E	1E	1E	1E	1E	1E																
	0A	QDV	QP V MODULATION	28	28	28	28	28	28	28					29	29	2F	2F	29	29																	
0B	QAV	QP AMPLITUDE MODULATION	1E	1E	1E	1E	1E	1E	1E					20	20	23	23	20	20																		
0C	ABC	ABL D/A CONTROL												00	00	7E	7E																				

SERVICE LIST ITEM

TVG	Functionality		Function	Common	Device
	Category	No.			
WHB	00	CBO	DC OFFSET CANCELLER FOR CB1	0A	CXA2100AQ
	01	CRO	DC OFFSET CANCELLER FOR CR1	0A	
	02	SBR	SUB BRIGHTNESS CONTROL	21	
	03	RDR	R DRIVE	29	
	04	GDR	G DRIVE	25	
	05	BDR	B DRIVE	20	
	06	RCT	R CUTOFF	24	
	07	GCT	G CUTOFF	07	
	08	BCT	B CUTOFF	2F	
	09	SBO	SUB BRIGHTNESS OFFSET	1C	
	0A	RDO	R DRIVE OFFSET	1F	
	0B	GDO	G DRIVE OFFSET	1B	
	0C	BDO	B DRIVE OFFSET	1B	
	0D	RCO	R CUTOFF OFFSET	1F	
	0E	GCO	G CUTOFF OFFSET	20	
	0F	BCO	B CUTOFF OFFSET	14	

SERVICE LIST ITEM

TVG	Functionality		Function															Device Name			
				Common	50			60			Twin	Index	Picture Mode				Eco Mode				
					TV	Video	DVD	TV	Video	DVD			Dynamic	Standard	Hi-Fine	Personal	Eco-OnNC		Eco-OffNC	Eco-OnVC	Eco-OffVC
Category	No.	Name																			
SAJ	00	PIC	PICTURE CONTROL									3F	32	28						CXA2100AQ	
	01	BRT	BRIGHTNESS CONTROL									23	1F	1B							
	02	COL	COLOR CONTROL									2A	22	22							
	03	HUE	HUE CONTROL									1F	1F	1F							
	04	SHP	SHARPNESS CONTROL									22	1F	1D							
	05	VML	VM LEVEL									03	03	01	03						
	06	DYC	DYNAMIC COLOR ON/OFF									01	01	00	01						
	07	CTM	COLOR TEMPERATURE FOR DYNAMIC COLOR									00	00	00	00						
	08	CAX	COLOR MATRIX SPECIFICATION		02	02	02	01	01	01											
	09	GMA	GAMMA CORRECTION									02	02	03	02						
	0A	DCT	DC TRANSMISSION CONTROL									01	01	00	01						
	0B	DPL	AUTO PEDESTAL LEVEL CONTROL									02	01	00	01						
	0C	ABM	ABL MODE CONTROL									01	00	00	00						
	0D	ABT	ABL CURRENT DETECTION VTH CONTROL													02	00	02	00		
0E	CLO	COLOR OFFSET		09	08		06	06													
0F	CLW	COLOR STEP WIDTH TO THE CHANGE OF S/N	03																		
10	HUO	HUE OFFSET		08	08		09	09													
11	SHO	SHARPNESS OFFSET		14	17	0F	00	0F	0F												
12	SHW	SHARPNESS STEP WIDTH TO THE CHANGE OF S/N	01																		
13	PIO	PICTURE OFFSET FOR TWIN/INDEX								03	04										
14	BRO	BRIGHTNESS OFFSET													07	07	07	07			
JGL	00	PON	RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF	01															CXA2100AQ		
	01	RGB	RGB OUTPUT SELECTION	07																	
	02	AGG	AGING MODE SELECTION	00																	
	03	DPS	Y/C DELAY LINE PASS MODE SWITCH	00																	
	04	BBT	RGB BOTTOM LIMITTER CONTROL	03																	
	05	LML	RGB AMPLITUDE LIMITTER CONTROL	00																	
	06	PAB	DC LEVEL FOR PEAK ABL	0F																	
	07	SCO	SUB PICTURE CONTROL	07																	
	08	LV2	RGB LEVEL FOR RGB2	07																	
	09	SF0	SHARPNESS CIRCUIT F0		01	01	01	01	01	01											
	0A	PRO	PRE/OVER-SHOOT RATIO CONTROL		00	03	03	03	03	03											
	0B	LTI	LUMINANCE TRANSIENT IMPROVEMENT									02	02	00	02						
0C	CTI	CHROMINANCE TRANSIENT IMPROVEMENT									01	01	00	01							

SERVICE LIST ITEM

TVG	Functionality		Function												Device Name	
	Category	No.		Name	Common	2D Comb	3D Comb	S-Input	Others	TV		Video		DVD		
50			60							50	60	50	60			
YCT	00	TNT	TINT ADJUSTMENT FOR NTSC							24	24	1F	1F			CXA2123Q
	01	PNG	PAL/NTSC GATE WIDTH	01												
	02	PNI	PAL/NTSC SENSITIVITY SW	00												
	03	SCL	SUB COLOR CONTROL							05	07	08	06			
	04	SCT	SUB CONTRAST CONTROL							08	05	08	07			
	05	SF0	SHARPNESS CENTER FREQUENCY CHANGING	02												
	06	SEQ	SHARPNESS EQUALIZER CHARACTERISTIC	03												
	07	SHG	SHARPNESS GAIN CONTROL							05	06	05	06	07	07	
	08	YOL	Y-OUTPUT LEVEL CONTROL	1F												
	09	BSP	BLACK STRETCH START POINT CHANGING	00												
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	1A												
	0B	DCR	DC RESTORATION RATIO ADJUSTMENT	00												
	0C	BF0	BPF/TQF F0 ADJUSTMENT	01												
	0D	BFQ	BPF/TQF Q ADJUSTMENT	02												
	0E	FSW	BPF/TQF SWITCH	01												
	0F	SDT	SECAM DOUBLE TRAP SWITCH	01												
	10	LPF	Y/CB/CR LPF SWITCH	01												
	11	YDL	Y-DL TIME ADJUSTMENT		06	05	03	05								
	12	CMT	CB/CR OUTPUT MUTE SWITCH	00												
	13	BO1	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)	07												
	14	RO1	CR OFFSET1 ADJUSTMENT	07												
	15	CDF	V COUNT DOWN FREQUENCY SWITCH	00												
	16	CDM	V COUNT DOWN JUDGE SWITCH	00												
	17	AFC	AFC SENSITIVITY SWITCH									00	00	00	00	
	18	MVM	MACROVISION MASK + AFC MASK	00												
	19	SRV	SECAM R-Y BLACK ADJUSTMENT	07												
1A	SBY	SECAM B-Y BLACK ADJUSTMENT	01													
1B	BEL	SECAM BELL/HPF SWITCHING	02													
1C	BLF	BELL F0 ADJUSTMENT	00													
1D	SVI	SECAM V-ID SWITCH	00													
1E	SGP	SECAM GATE POSITION ADJUSTMENT	00													
1F	SID	SECAM SENSITIVITY SWITCH	01													
20	SIH	SECAM INHIBITION SWITCH	00													
21	STP	Y BLACK LEVEL SETUP FOR PAL PLUS	00													
22	HVC	H-VCO TEMPERATURE CHARACTER CANCELLING	02													
23	3NR	3D NR OPERATION ON/OFF	01													
24	BW6	3D NR FOR 60Hz NON-BUST SIGNAL ON/OFF	01													
25	WSH	SHARPNESS GAIN STEP FOR NOISE REDUCTION	00													
26	WCO	DC RESTORATION RATIO ADJUSTMENT	00													

SERVICE LIST ITEM

TVG	Functionality		Function									Device Name			
	Category	No.		Name	Common	S-Input	Col Mode			TV			Video		DVD
							SECAM	NTSC	PAL	50	60		50	60	
SYC	00	TNT	TINT ADJUSTMENT FOR NTSC											CXA2123Q	
	01	PNG	PAL/NTSC GATE WIDTH	01											
	02	PNI	PAL/NTSC SENSITIVITY SW	00											
	03	SCL	SUB COLOR CONTROL						06	07	09	06			
	04	SCT	SUB CONTRAST CONTROL						08	04	08	07			
	05	SF0	SHARPNESS CENTER FREQUENCY CHANGING	02											
	06	SEQ	SHARPNESS EQUALIZER CHARACTERISTIC	03											
	07	SHG	SHARPNESS GAIN CONTROL	07											
	08	YOL	Y-OUTPUT LEVEL CONTROL	1F											
	09	BSP	BLACK STRETCH START POINT CHANGING	00											
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	3C											
	0B	DCR	DC RESTORATION RATIO ADJUSTMENT	00											
	0C	BF0	BPF/TQF F0 ADJUSTMENT	01											
	0D	BFQ	BPF/TQF Q ADJUSTMENT	02											
	0E	FSW	BPF/TQF SWITCH	01											
	0F	SDT	SECAM DOUBLE TRAP SWITCH	01											
	10	LPF	Y/CB/CR LPF SWITCH	01											
	11	YDL	Y-DL TIME ADJUSTMENT		05	03	02	03							
	12	NCM	1-H ADDITION SWITCH	01											
	13	CMT	CB/CR OUTPUT MUTE SWITCH	00											
	14	BO1	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)	07											
	15	RO1	CR OFFSET1 ADJUSTMENT	07											
	16	CDF	V COUNT DOWN FREQUENCY SWITCH	00											
17	CDM	V COUNT DOWN JUDGE SWITCH	00												
18	AFC	AFC SENSITIVITY SWITCH								00	00	00			
19	MVM	MACROVISION MASK + AFC MASK	00												
1A	SRY	SECAM R-Y BLACK ADJUSTMENT	07												
1B	SBY	SECAM B-Y BLACK ADJUSTMENT	01												
1C	BEL	SECAM BELL/HPF SWITCHING	02												
1D	BLF	BELL F0 ADJUSTMENT	00												
1E	SVI	SECAM V-ID SWITCH	00												
1F	SGP	SECAM GATE POSITION ADJUSTMENT	00												
20	SID	SECAM SENSITIVITY SWITCH	01												
21	SIH	SECAM INHIBITION SWITCH	00												
22	STP	Y BLACK LEVEL SETUP FOR PAL PLUS	00												
23	HVC	H-VCO TEMPERATURE CHARACTER CANCELLING	02												

SERVICE LIST ITEM

TVG	Functionality		Function										Device Name
	Category	No.		Name	Common	Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur Off	Dynamic	Drama	
AP	00	BAS	BASS CONTROL							0B	08	07	TDA7315
	01	TRE	TREBLE CONTROL							0B	09	07	
	02	LDN	LOUDNESS ON/OFF	01									

TVG	Functionality		Function	Common	Device
	Category	No.			
MSP	00	WST	W/G STEREO THRESHOLD	15	MSP3415D
	01	WBT	W/G BILINGUAL THRESHOLD	EA	
	02	WLL	W/G MONOAUURAL THRESHOLD	05	
	03	WAC	W/G AGREEMENT COUNT	01	
	04	WDL	W/G SEARCH DELAY	30	
	05	NDL	NICAM SEARCH DELAY	20	
	06	SDL	STEREO STATUS READ DELAY	10	
	07	AGC	AGC SWITCH AUTO/CONSTANT	01	
	08	REL	AGC GAIN AT CONSTANT MODE	28	
	09	CRM	CARRIER MUTING ON/OFF	00	
	0A	ACO	AUDIO CLOCK ON/OFF	01	
	0B	FP	FM PRESCALE FOR NON-M SYSTEM	1B	
	0C	FPM	FM PRESCALE FOR M SYSTEM	32	
0D	FH	FM PRESCALE FOR HDEV	2D		
0E	FHM	FM PRESCALE FOR HDEV AND M	65		
0F	WGP	W/G PRESCALE	2A		
10	NIP	NICAM PRESCALE	6D		
11	ERR	AUTO FM SWITCH THRESHOLD	50		
12	VOL	LOUDSPEAKER GAIN 0700H TO 07FFH	6D		

SERVICE LIST ITEM

TVG	Functionality		Function	Common	Twin	TV	Video	Picture Mode				Device Name	
	Category	No.						Name	Dynamic	Standard	Hi-Fine		Personal
LTI	00	LDH	HISTOGRAM SEGMENT SELECTION	01								TDA9178	
	01	CFS	CONTOUR FILTER SELECTION	01									
	02	WLB	LETTERBOX WINDOW SWITCH	00									
	03	VDC	VIDEO DEPENDENT CORING					01	01	01	01		
	04	DEM	DEMONSTRATION MODE	00									
	05	CDP	LUMINANCE DELAY	04									
	06	OSP	OVERRULE SMART PEAKING	00									
	07	WPO	WHITE POINT STRETCH OFF	00									
	08	DSK	SKIN TONE SWITCH					00	00	00	00		
	09	ASK	SKIN TONE ANGLE SELECTION	00									
	0A	WSK	SKIN TONE WIDTH SELECTION	00									
	0B	SSK	SKIN TONE SIZE SELECTION	00									
	0C	DGR	GREEN ENHANCEMENT SWITCH		00			01	01	00	01		
	0D	DGT	THRESHOLD OF GREEN ENHANCEMENT SWITCH	07									
	0E	GGR	GREEN ENHANCEMENT GAIN	00									
	0F	WGR	GREEN ENHANCEMENT WITDH	00									
	10	SGR	GREEN ENHANCEMENT SIZE	00									
	11	DBL	BLUE STRETCH SWITCH	00									
	12	GBL	BLUE STRETCH GAIN SELECTION	00									
	13	SBL	BLUE STRETCH SIZE SELECTION	00									
	14	CDS	COLOR DEPENDENT SHARPNESS					01	01	00	01		
	15	CST	THRESHOLD OF COLOR DEPENDENT SHARPNESS	07									
	16	CTI	COLOR TRANSIENT IMPROVEMENT					00	00	00	00		
	17	BON	BLACK OFFSET COMPENSATION					00	00	00	00		
	18	BTD	ADAPTIVE BLACK STRETCH					00	00	00	00		
	19	NLD	NON-LINEARITY AMPLIFIER		00			15	15	00	15		
1A	NLW	STEP WIDTH OF NON-LINEARITY AMPLIFIER	07										
1B	VGD	VARIABLE GAMMA		1F			1F	1F	1F	1F			
1C	VGW	STEP WITDH OF VARIABLE GAMMA	00										
1D	PKD	PEAKING AMPLITUDE					3F	30	0E	30			
1E	PKW	STEP WIDTH OF PEAKING AMPLITUDE	08										
1F	SPD	STEPNESS CORRECTION					00	00	00	00			
20	CRD	CORING LEVEL					16	16	00	16			
21	CRW	STEP WIDTH OF CORING LEVEL	09										
22	CRO	CORING LEVEL OFFSET FOR VIDEO MODE	01										
23	LWD	LINE WIDTH CORRECTION	1F										
24	SNM	S/N MODE UNDER UNREALIBLE S/N CONDITION	00										
25	SNC	S/N RATIO AVERAGE COUNTER			03	03							
26	FMC	FEATURE MODE MATCHING COUNTER	02										

SERVICE LIST ITEM

TVG	Functionality		Function	50					60					Device Name
	Category	No.		Name	DRC 1050	PinP	TWIN	INDEX	Progressive	DRC 1050	PinP	TWIN	INDEX	
MID	00	HPH	HORIZONTAL ACTIVE DISPLAY AREA PHASE	52	52	92	8D	52	52	52	7F	7F	52	MB94918
	01	VPH	VERTICAL ACTIVE DISPLAY AREA PHASE	20	20	24	20	20	25	25	25	2E	25	
	02	HSZ	HORIZONTAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	03	VSZ	VERTICAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	04	HPW	DISPLAY H-SYNC PLUS WIDTH	3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	
	05	VPW	DISPLAY V-SYNC PLUS WIDTH	01	07	03	03	07	01	07	03	03	07	
	06	YDL	DISPLAY OUTPUT Y/C DELAY CORRECTION	00	00	00	00	00	00	00	00	00	00	
	07	MHP	MAIN PICTURE HORIZONTAL POSITION (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	08	MVP	MAIN PICTURE VERTICAL POSITION (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	09	MHS	MAIN PICTURE HORIZONTAL SIZE (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	0A	MVS	MAIN PICTURE VERTICAL SIZE (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	0B	PHP	PINP SUB PICTURE HORIZONTAL POSITION		6B					53				
	0C	PVP	PINP SUB PICTURE VERTICAL POSITION		5D					57				
	0D	PHS	PINP SUB PICTURE HORIZONTAL SIZE		7F					7F				
	0E	PVS	PINP SUB PICTURE VERTICAL SIZE		7F					7F				
	0F	PHO	PINP SUB PICTURE HORIZONTAL POSITION OFFSET		76					68				
	10	PVO	PINP SUB PICTURE VERTICAL POSITION OFFSET		69					64				
	11	TMP	TWIN MAIN PICTURE HORIZONTAL POSITION			00					00			
	12	TSP	TWIN SUB PICTURE HORIZONTAL POSITION											
	13	TVP	TWIN MAIN & SUB PICTURE VERTICAL POSITION											
	14	THS	TWIN MAIN & SUB PICTURE HORIZONTAL SIZE											
	15	TVS	TWIN MAIN & SUB PICTURE VERTICAL SIZE											
	16	THO	TWIN MAIN & SUB PICTURE HORIZONTAL POSITION OFFSET											
	17	TVO	TWIN MAIN & SUB PICTURE VERTICAL POSITION OFFSET											
	18	XHS	INDEX SUB PICTURE HORIZONTAL SIZE											
	19	XVS	INDEX SUB PICTURE VERTICAL SIZE											
	1A	XHG	INDEX HORIZONTAL GAP WIDTH BETWEEN PICTURES											
	1B	XVG	INDEX VERTICAL GAP WIDTH BETWEEN PICTURES											
	1C	XHP	INDEX 1ST SUB PICTURES HORIZONTAL POSITION											
	1D	XVP	INDEX 1ST SUB PICTURES VERTICAL POSITION											
1E	DHP	DRC HORIZONTAL ACTIVE AREA POSITION	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F		
1F	DHS	DRC HORIZONTAL ACTIVE PIXEL SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F		

SERVICE LIST ITEM

TVG	Functionality		Function	50					60					Device Name
	Category	No.		Name	DRC 1050	PinP	TWIN	INDEX	Progressive	DRC 1050	PinP	TWIN	INDEX	
MID	20	DVP	DRC VERTICAL ACTIVE AREA LINE POSITION	1F	1F	3F	3F	1F	20	20	39	39	22	MB94918
	21	DVS	DRC VERTICAL ACTIVE AREA LINE SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	22	VHP	VDO HORIZONTAL ACTIVE AREA POSITION		7F	7F	7F			7F	7F	7F		
	23	VHS	VDO HORIZONTAL ACTIVE AREA PIXEL SIZE		7F	7F	7F			7F	7F	7F		
	24	VEP	VDO VERTICAL ACTIVE AREA EVEN POSITION		1E	1E	1E			1B	1B	1B		
	25	VVS	VDO VERTICAL ACTIVE AREA LINE SIZE		7F	7F	7F			7F	7F	7F		
	26	VOP	VDO VERTICAL ACTIVE AREA ODD POSITION		00	00	00			00	00	00		
	27	CLT	VDO CLAMP PULSE OUTPUT TIMING		7F	7F	7F			7F	7F	7F		
	28	CLW	VDO CLAMP PULSE WIDTH		04	04	04			04	04	04		
	29	VYD	VDO ANALOG INPUT Y/C DELAY CORRECTION		00	00	00			00	00	00		
	2A	VCR	VDO CROMA SIGNAL ORDER		01	01	01			01	01	01		
2B	VDI	VDO DIGITAL ANALOG INPUT SELECTION		01	01	01			01	01	01			

SERVICE LIST ITEM

TVG	Functionality		Function											Device Name					
				Common	TV	Video	NR Mode				Picture Mode								
	Category	No.					Name	NRmode0	NRmode1	NRmode2	NRmode3	Dynamic	Standard		Hi-Fine	Personal			
3CM	00	FRZ	EXTERNAL MEMORY TEST BIT	00														UPD64082	
	01	NRM	NOISE REDUCTION OPERATION MODE	00															
	02	YCO	Y/C SIGNAL OUTPUT SELECTION	0D															
	03	SYC	SYSTEM CLOCK SELECTION	01															
	04	STD	STANDARD/NON-STANDARD OPERATION SELECTION	00															
	05	MSS	INTER-FRAME/INTER-LINE OPERATION SELECTION	00															
	06	KIL	KILLER/NON-KILLER OPERATION SELECTION	03															
	07	EAD	EXTERNAL Y-ADC SWITCH	00															
	08	ECS	EXTERNAL C-SYNC INPUT SELECTION	01															
	09	CPP	ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION	02															
	0A	PWR	ADC INPUT WIDTH SWITCH	00															
	0B	HDP	HORIZONTAL PHASE ADJUSTMENT	05															
	0C	CDL	C-SIGNAL ADJUSTMENT	04															
	0D	DYC	DY DETECTION CORING LEVEL ADJUSTMENT					02	02	02	04								
	0E	DYG	DY DETECTION GAIN ADJUSTMENT					0A	0A	0A	0A								
	0F	DCC	DC DETECTION CORING LEVEL ADJUSTMENT					05	03	03	05								
	10	DCG	DC DETECTION GAIN ADJUSTMENT					05	0A	0A	05								
	11	YNR	YNR NON-LINEAR FILTER SETUP	01															
	12	CNR	CNR NON-LINEAR FILTER SETUP	01															
	13	WSC	NOISE DETECTION CORING ADJUSTMENT	01															
	14	VTH	HYSTERESIS SELECTION FOR H-SYNC NON-STANDARD		01	01													
	15	VTR	SENSITIVITY SELECTION FOR H-SYNC NON-STANDARD		01	01													
	16	LDR	SENSITIVITY SELECTION FOR FRAME-SYNC NON-STANDARD		02	01													
	17	VAP	GAIN ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								03	00	00	00					
	18	VAI	VANISHING ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								0C	00	00	00					
	19	TST	TEST BIT	00															
	1A	YPF	CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF								03	03	03	03					
	1B	YPG	GAIN ADJUSTMENT FOR Y-PEAKING BPF								08	08	08	08					
	1C	VSE	LINE COMB FILTER SETUP	0A															
	1D	CCN	C-SIGNAL SPLIT FILTER SWITCH	00															
	1E	COS	C-SIGNAL DELAY SWITCH AT NOISE REDUCTION	00															
	1F	SDC	DC DETECTION SENSITIVITY SWITCH	00															

SERVICE LIST ITEM

TVG	Functionality		Function											Device Name		
	Category	No.		Name	Common	TV	Video	NR Mode				Picture Mode				
								NRmode0	NRmode1	NRmode4	NRmode3	Dynamic	Standard		Hi-Fine	Personal
3CM	20	SDY	DY DETECTION LOWER-LEVEL SENSITIVITY SWITCH	01												UPD64082
	21	D2G	D2 GAIN SELECTION	04												
	22	YHC	Y-SIGNAL HIGHER-LEVEL CORING SELECTION								00	00	00	00		
	23	YHG	Y-SIGNAL HIGHER-LEVEL GAIN SWITCH								00	00	00	00		
	24	SHT	NON-STANDARD DETECTION & H/V COUNTER TEST BITS	00												
	25	CLK	CLOCK TEST BITS	08												
	26	PLL	PLL FILTER SETUP	0D												
	27	KRF	KILLER DETECTION REFERENCE ADJUSTMENT	03												
	28	HSL	H-SYNC SLICE LEVEL ADJUSTMENT	0C												
	29	VSL	V-SYNC SLICE LEVEL ADJUSTMENT	08												
	2A	BPS	INTERNAL BURST GATE START POSITION ADJUSTMENT	04												
	2B	BPW	INTERNAL BURST GATE WIDTH ADJUSTMENT	0A												
	2C	ADC	ADC CLOCK DELAY SELECTION	03												
	2D	APD	ADC POWER-DOWN SWITCH	01												
	2E	NSD	NON-STANDARD DETECTION TEST BIT	01												
2F	SPD	MEMORY POWER-DOWN SWITCH	02													
30	CNT	CNR TEST BIT	00													

TVG	Functionality		Function	RF Picture Mode				Video Picture Mode				Device Name
	Category	No.		Name	NR Mode 0	NR Mode 1	NR Mode 2	NR Mode 3	Dynamic	Standard	Hi-Fine	
2 CM	00	APA	2D COMB APACON ON/OFF	00	00	00	00	01	00	00	00	CXA2069Q

TVG	Functionality		Function										Device Name
	Category	No.		Name	Common	Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur Off	Dynamic	Drama	
DSP	00	DUL	DIR UNLOCK DETECTION MODE	00									TC9446F
	01	DIM	DIGITAL INPUT MODE	03									
	02	TFM	TRUSURROUND FRONT MINUS		5A	5A							
	03	TFP	TRUSURROUND FRONT PLUS		12	12							
	04	TCE	TRUSURROUND CENTER		40	40							
	05	TS1	TRUSURROUND SURROUND #1		20	E0							
	06	TS2	TRUSURROUND SURROUND #2		20	20							
	07	TSP	TRUSURROUND SURROUND PLUS		68	68							
	08	TSM	TRUSURROUND SURROUND MINUS		68	68							
	09	LFE	LOW FREQUENCY EFFECT	5A									
	0A	BHL	BBE EFFECT 1 FOR BBE HIGH		33	33	33	28	40				
	0B	BHH	BBE EFFECT 2 FOR BBE HIGH		30	30	30	28	38				
	0C	BLL	BBE EFFECT 1 FOR BBE LOW		2B	2B	2B	24	33				
	0D	BLH	BBE EFFECT 2 FOR BBE LOW		29	29	29	24	30				
0E	DLR	DELAY SELECTION AT DSP RESET	07										
0F	BBE	BBE SELECTION							01	01	03		

SERVICE LIST ITEM

TVG	Functionality		Function	Device		
	Category	No.		Name	Common	50
TXT	00	TXH	TELETEXT HORIZONTAL POSITION	4B		
	01	TXV	TELETEXT VERTICAL POSITION	0E		
OPM	00	OSH	OSD H POSITION	12		
	01	FW1	OSD ODD/EVEN FIELD WINDOW SETUP #1	00		
	02	FW2	OSD ODD/EVEN FILED WINDOW SETUP #2	03		
	03	OHO	OSD H POSITION OFFSET FOR INDEX	07		
	04	IL1	INDEX SUB-SCREEN OSD 1ST LINE VERTICAL POSITION		1F	1D
	05	IVO	INDEX SUB-SCREEN OSD VERTICAL OFFSET		2F	22
	06	COM	COMB OPERATION SELECTION	00		
	07	APC	APC SWITCH MUTE	01		
	08	TSY	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM	03		
	09	MUT	NO SIGNAL MUTE	01		
	0A	AFM	AUTO FM SWITCH	01		
	0B	TVO	V-ANGLE CORRECTION TO PICTURE ROTATION	03		
	0C	DBL	DISABLE BLUEBACK FUNCTION	01		
OPB	0D	SSO	SPEED CH SEARCH SELECTION	01		
	0E	TRP	MPEG/JPEG NOISE REDUCTION FOR EACH INPUT	00		
	0F	SCH	CH SELECTION FOR SHIPPING CONDITION	07		
	10	SCA	CABLE/AIR SELECTION FOR SHIPPING CONDITION	01		
	11	DMG	DISABLE MENU-OPERATION GUIDE	00		
	12	VSN	ENABLE VOICE REDUCTION IN VIDEO MODE	00		
	00	OP1	OPTIONAL BITS 1 (SEE THE SPECIFIED SHEET)	07		
01	OP2	OPTIONAL BITS 2 (SEE THE SPECIFIED SHEET)	62			

Abbreviation:

- ECO = Eco Mode
- VC = V-Compressed Mode
- NC = Non-Compressed Mode
- Sur = Surround
- VDD = Virtual Dolby Digital
- VDP = Virtual Dolby Prologic
- TRS = Tru Surround
- SIM = Simulated

NOTE

- shaded items are fixed data.
- no data
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.

In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

OPTION NOTE

COM Comb Operation Selection 00 = automatic operation (depends on color system status),
01 = no comb operation,
02 = forced 2D-comb operation,
03 = forced 3D-comb operation

TSY TV System Selection for Auto TV System 00 = B/G, 01 = I, 10 = D/K, 11 = M

SSO Speed CH Search Selection 00 = normal, 01 = 4 times, 10 = 6 times, 11 = 8 times

TRP MPEG/JPEG Noise Reduction

Input	–	–	TV	Video 1	Video 2	Video 3	Video 4	DVD
-------	---	---	----	---------	---------	---------	---------	-----

OP1 Items

Item	TOP	NICAM	HDEV	Reserved	–	DVD Input	AV Input	
KV-ES34K90	0	0	0	0	0	1	1	1

AV Input 00 = no AV Input, 01 = 1 AV Input, 10 = 3 AV Input, 11 = 4 AV Input

OP2 Items

Item	C-Text	Korea Stereo	Korea Mode	A-TV SYS	USST	SSV - Model	OSD Language	
KV-ES34K90	0	1	1	0	0	0	1	0

- C-Text Text Decoder 0 = Original (Siemens), 1 = Chinese (Philips)
- Korean Stereo* Korean Stereo 0 = Disabled, 1 = Enabled
- Video NTSC 3.58* Video Color System 0 = Multi System, 1 = Single System (NTSC 3.58)
- A-TV sys Auto TV System in Auto Program 0 = Disabled, 1 = Enabled
- US ST* USA Stereo 0 = Disabled, 1 = Enabled
- SSV Model SSV = Production Model 0 = Original, 1 = Disable PIP/ TWIN/ Digital-IN
- OSD Language 00 = English only, 01 = English & Chinese,
10 = English & Arabic/ Korean* 11 = English, Chinese & Arabic/ Korean*

5-3. PICTURE QUALITY ADJUSTMENTS

-H-TRAPIZIUM ADJUSTMENT

1. Input a cross hatch/dot signal.
2. Adjust DAC 4 HTR to make H-Trapezoid distortion best.

SUB CONTRAST, SUB HUE, SUB COLOR

Adjustment condition

SAJ 00 PIC 3F
06 DYC 0
0E CLO 6
10 HUO 7
13 PIO 0

JGL 04 BBT 0
05 LML 3

PICTURE QUALITY : HI-FINE
ECO MODE : OFF
WIDE MODE : OFF
DRC-MF : DRC1050

INPUT SIGNAL

Video Color Bar (White and Color 75%)
RF Color Bar (White and Color 75%)

MEASUREMENT POINT

VR ; R100 (the pin 6 of CN1100 at A board)
VB ; B100 (the pin 7 of CN1100 at A board)

CAUTION

After the above Adjustment, these adjustment parameters must be recovered to the original condition.

Original condition

SAJ 00 PIC 28 HI-FINE
SAJ 06 DYC 0 HI-FINE

	50 TV	50 VIDEO	60 TV	60 VIDEO
OE CLO	9	8	6	6
10 HUO	8	8	9	9

13 PIO TWIN = 3
JGL 04 BBT 3
05 LML 0

1. NTSC VIDEO INPUT

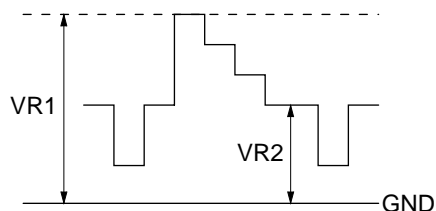
Input signal ; NTSC color bar, 75% to Video 1.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
02 COL 0
JGL 01 RGB 4
SAJ 13 PIO 0

Adjusting parameter:

LEFT ; YCT 08 YOL
RIGHT ; SYC 08 YOL



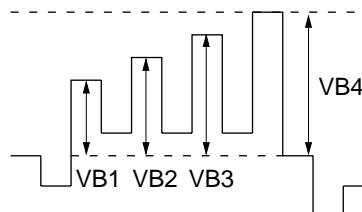
$$VR1 - VR2 = 1.85 \pm 0.07 (V_{p-p})$$

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
JGL 01 RGB 7
SAJ 10 HUO 7

Adjusting parameter:

LEFT ; YCT 0A COL
YCT 00 TNT
RIGHT ; SYC 0A COL
SYC 00 TNT



$$VB1 = VB4 \pm 70 \text{ mV}$$

$$VB2 = VB3 \pm 70 \text{ mV}$$

2. NTSC RF INPUT

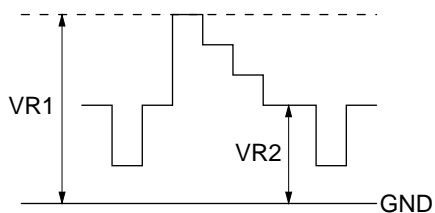
Input signal ; NTSC RF color bar, 75%.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
 02 COL 0
 JGL 01 RGB 4

Adjusting parameter:

LEFT ; YCT 04 SCT
RIGHT ; SYC 04 SCT



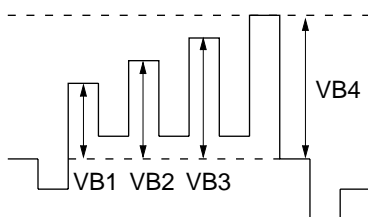
$$VR1 - VR2 = 1.85 \pm 0.07 (V_{p-p})$$

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
 JGL 01 RGB 7
 SAJ 10 HUO 7

Adjusting parameter:

LEFT ; YCT 03 SCL
 YCT 00 TNT
RIGHT ; SYC 03 SCL
 SYC 00 TNT



$$VB1 = VB4 \pm 70 \text{ mV}$$

$$VB2 = VB3 \pm 70 \text{ mV}$$

3. PAL RF INPUT (Not applicable to this model)

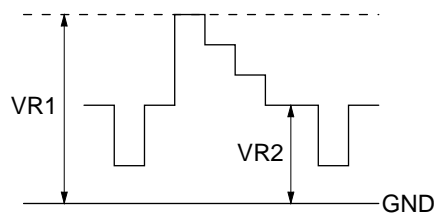
Input signal ; PAL RF color bar, 75%.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
 SAJ 02 COL 0
 JGL 01 RGB 4

Adjusting parameter:

LEFT ; YCT 04 SCT
RIGHT ; SYC 04 SCT



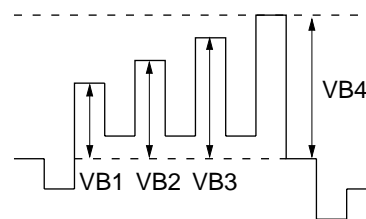
$$VR1 - VR2 = 1.85 \pm 0.07 (V_{p-p})$$

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
 JGL 01 RGB 7

Adjusting parameter:

LEFT ; YCT 03 SCL
RIGHT ; SYC 03 SCL



$$VB2 = VB3 = VB4 = \pm 70 \text{ mV}$$

5-4. DEFLECTION ADJUSTMENTS

FOR DRC 1050

- Set to Service Mode.
- Input a Pal cross hatch/dot signal.
- Set the following condition.
Picture Mode to **[DYNAMIC]**, Picture Rotation to **[+/-0]** and Eco Mode to OFF.
- Set to DRC 1050 mode.
- Using the **[1]** and **[4]** buttons select category GEO (Service Mode).
- Select and adjust the following items to obtain optimum image. Raise/lower the data with the **[3]** and **[6]** buttons.

1	00	VSZ	V SIZE
2	04	HSZ	H SIZE
3	01	VPS	V POSITION
4	05	HPS	H POSITION
5	03	SCO	S CORRECTION
6	02	VLN	V LINEARITY
7	0B	BOW	AFC BOW
8	06	PAP	PIN AMP
9	07	UPN	UPPER CORNER PIN
10	08	LPN	LOWER CORNER PIN
11	09	TRZ	TRAPEZIUM

- Using the **[1]** and **[4]** buttons select category DAC (Service Mode).
- Select and ad List the following items to obtain optimum image. Raise/lower the data with the **[3]** and **[6]** buttons.

1	01	HLN	H LINEARITY
2	00	HCT	H CENTER

- Select "GEO 04 HSZ" with the **[1]** and **[4]** buttons.
- Confirm the H Size condition. If necessary, adjust the H SIZE to get a best condition.
- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR PROGRESSIVE MODE

- Set to PROGRESIVE mode.
- Repeat Step 5, Step 6 and Step 7.
- Write "DAC 00 HCT DRC 100 Mode" as "DAC 00 HCT DRC 1250 Mode".
Write "DAC 01 HLN DRC 100 Mode" as "DAC 01 HLN DRC 1250 Mode".

FOR PIP MODE

- Set to PIP mode.
- Repeat Step 5 and Step 6.
- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR TWIN MODE

- Set to TWIN Mode.
- Using the **[1]** and **[4]** buttons select category GEO (Service Mode).
- Select and adjust the following items to obtain optimum image. Raise/lower the data with the **[3]** and **[6]** buttons.

1	01	VPS	V POSITION
2	05	HPS	H POSITION
3	06	PAP	PIN AMP
4	09	TRZ	TRAPEZIUM

- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR INDEX MODE

- Set to Index Mode.
- Repeat Step 5 and Step 6.
- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR WIDE MODE

- Set to WIDE Mode.
- Using the **[1]** and **[4]** buttons select category GEO (Service Mode).
- Select and adjust the following items to obtain optimum image. Raise/lower the data with the **[3]** and **[6]** buttons.

1	00	VSZ	V SIZE
2	01	VPS	V POSITION
3	05	HPS	H POSITION
4	06	PAP	PIN AMP
5	09	TRZ	TRAPEZIUM

- Input a NTSC cross hatch/dot signal and repeat all above steps.

5-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

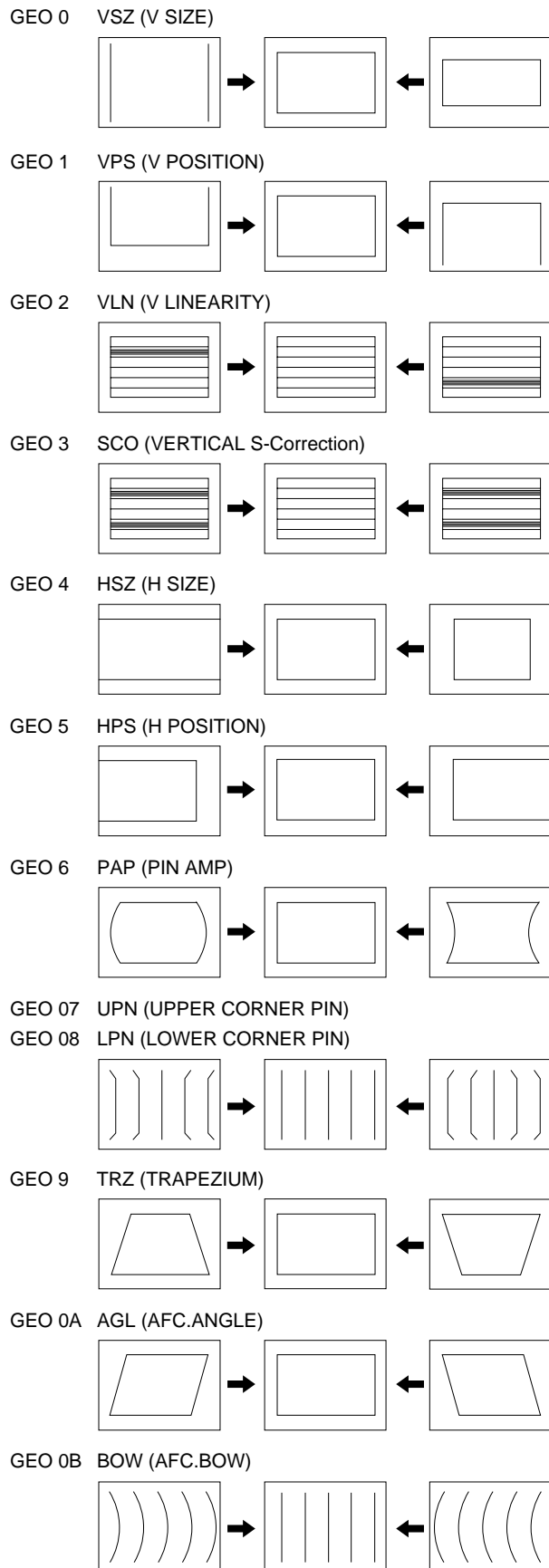
When replacing IC003 and IC004 (MEMORY), be sure to change IC001 (μ -COM) to the following at the same time.

MODEL	IC001 (μ -CON)
KV-ES34K90	CXP750096-019Q

1. Enter to Service Mode.
2. Press commander buttons **5** and **0** (Data Initialize), and **2** and **0** (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
In cases where items are not well adjusted, rectify the items with fine adjustment.
Write the data per each item number (**MUTING** + **0**).
4. Select item numbers “OPB0” (OP1), “OPB1” (OP2) and respectively set the bit per model with command buttons **3** and **6**.
5. Press commander buttons **8** and **0** (Test Normal) to return to the data that was set on the shipment from the factory.
(This will also cancel Service Mode.)

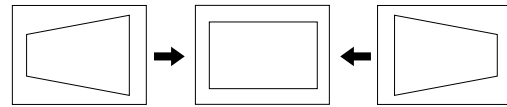
5-6. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B



PICTURE DISTORTION ADJUSTMENT (2)

H-TRAPEZOID (DAC 4 HTR)



MEMO

A series of horizontal dotted lines for writing a memo.

SECTION 6
DIAGRAMS

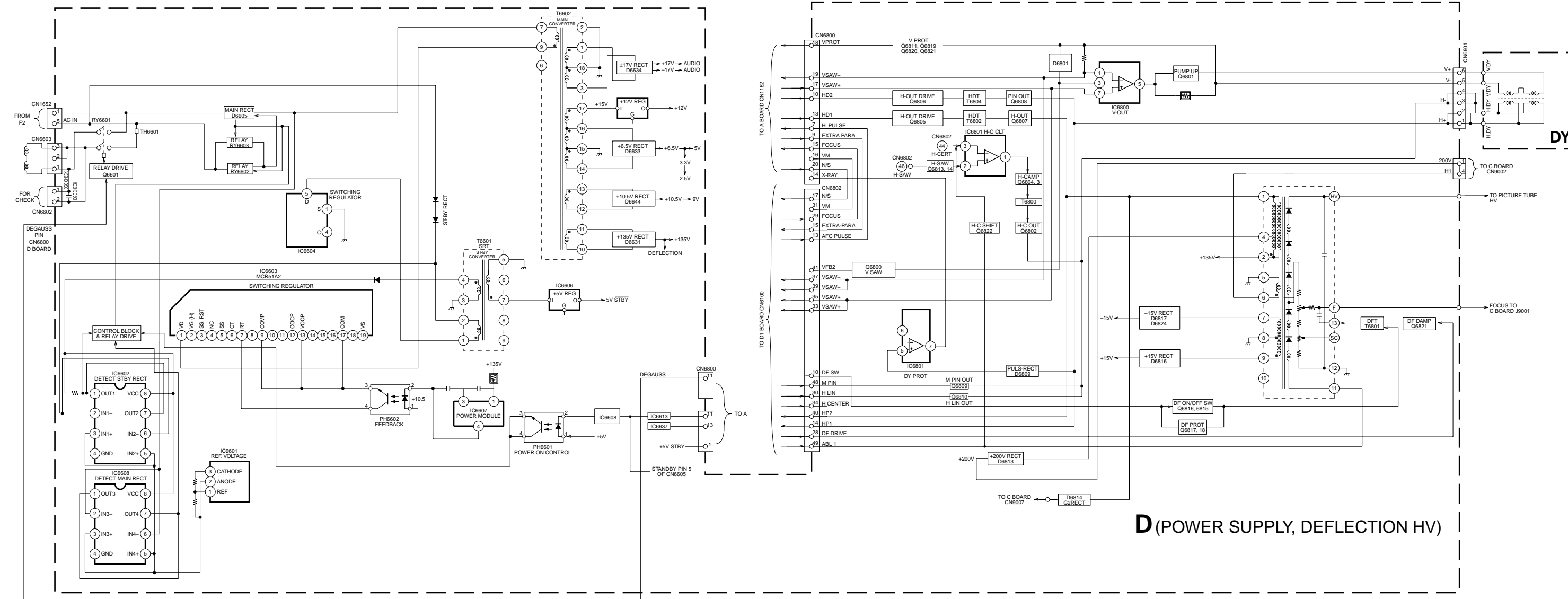
6-1. BLOCK DIAGRAM

KV-ES34K90
RM-959

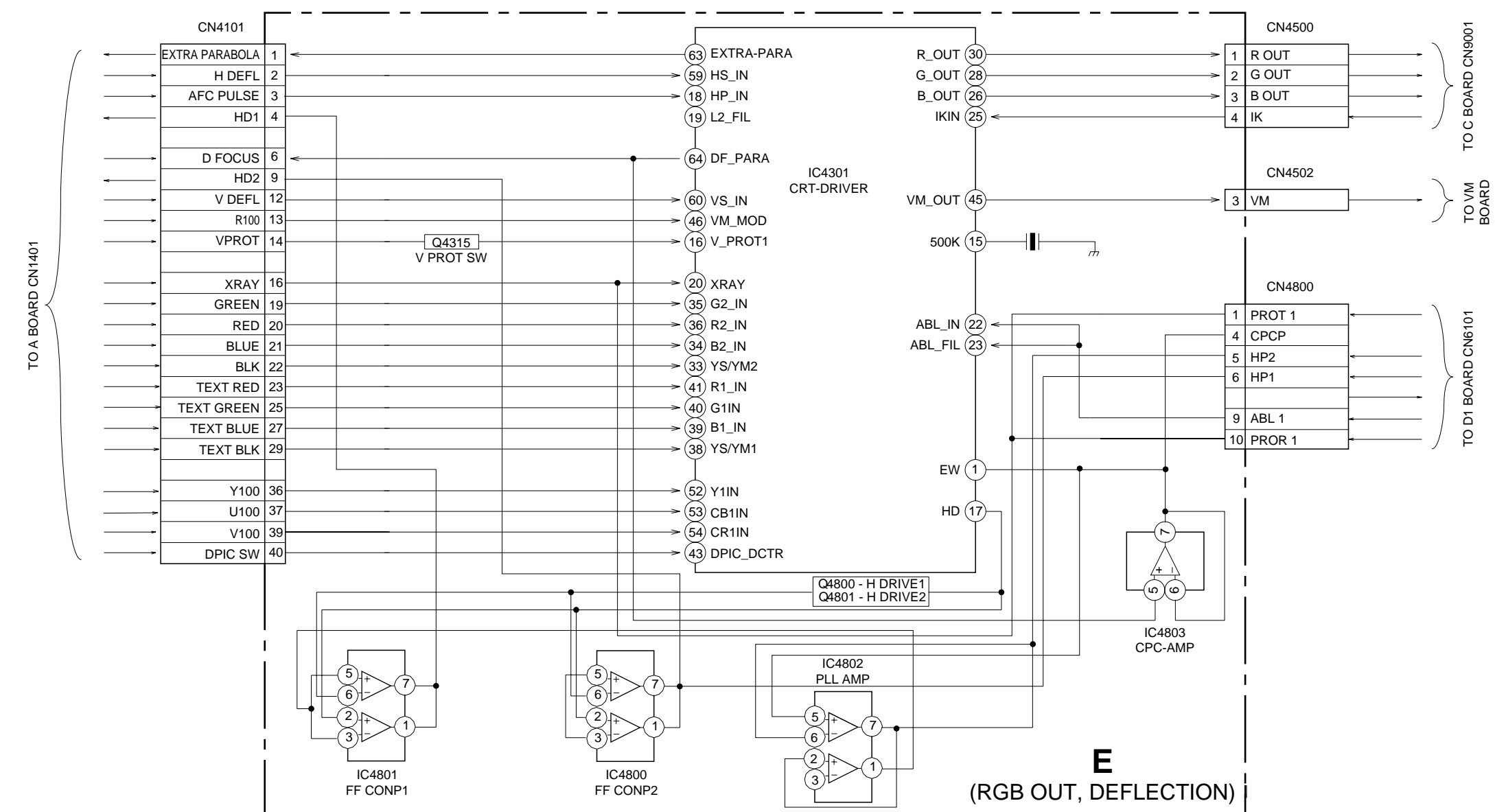
KV-ES34K90
RM-959

KV-ES34K90
RM-959

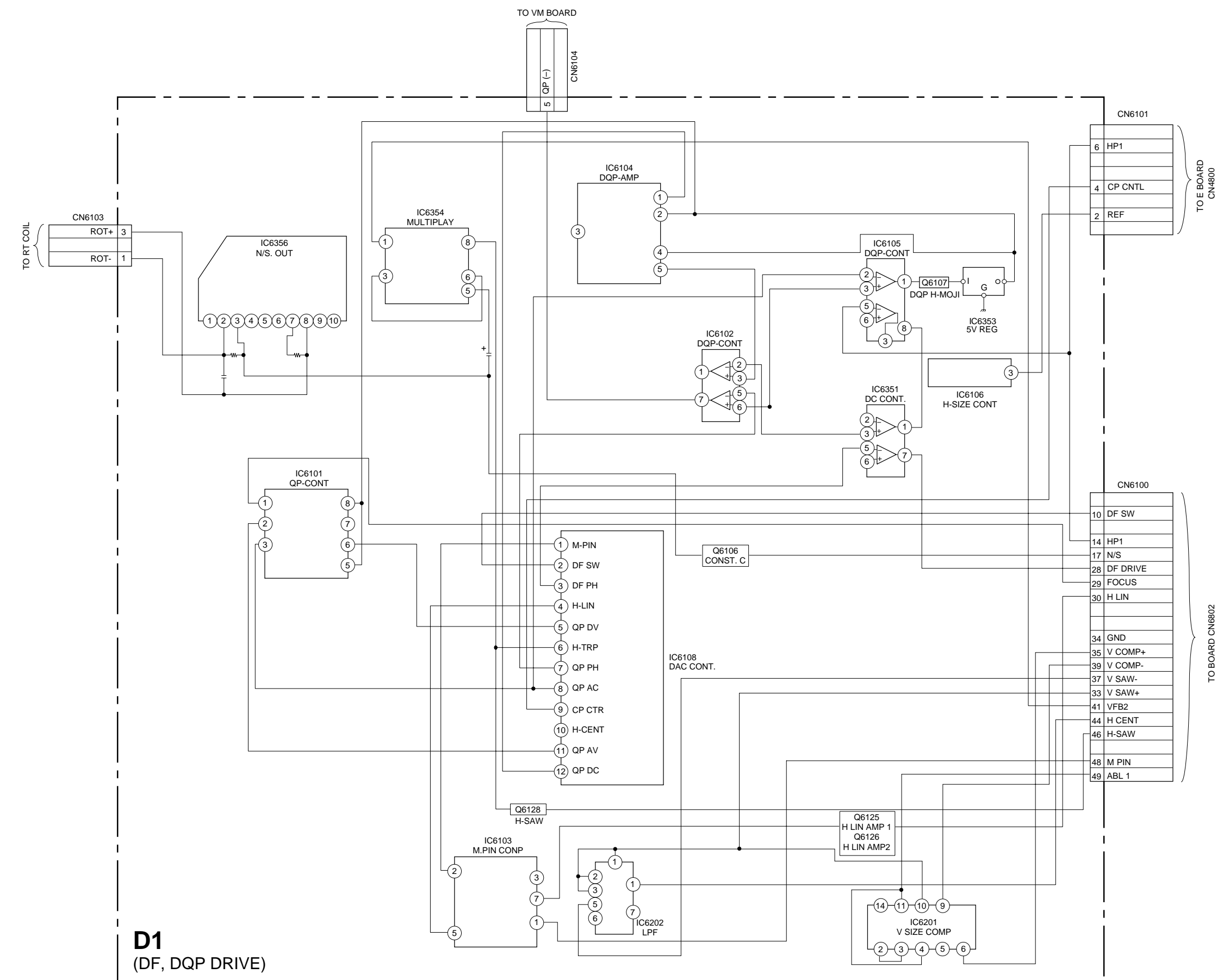
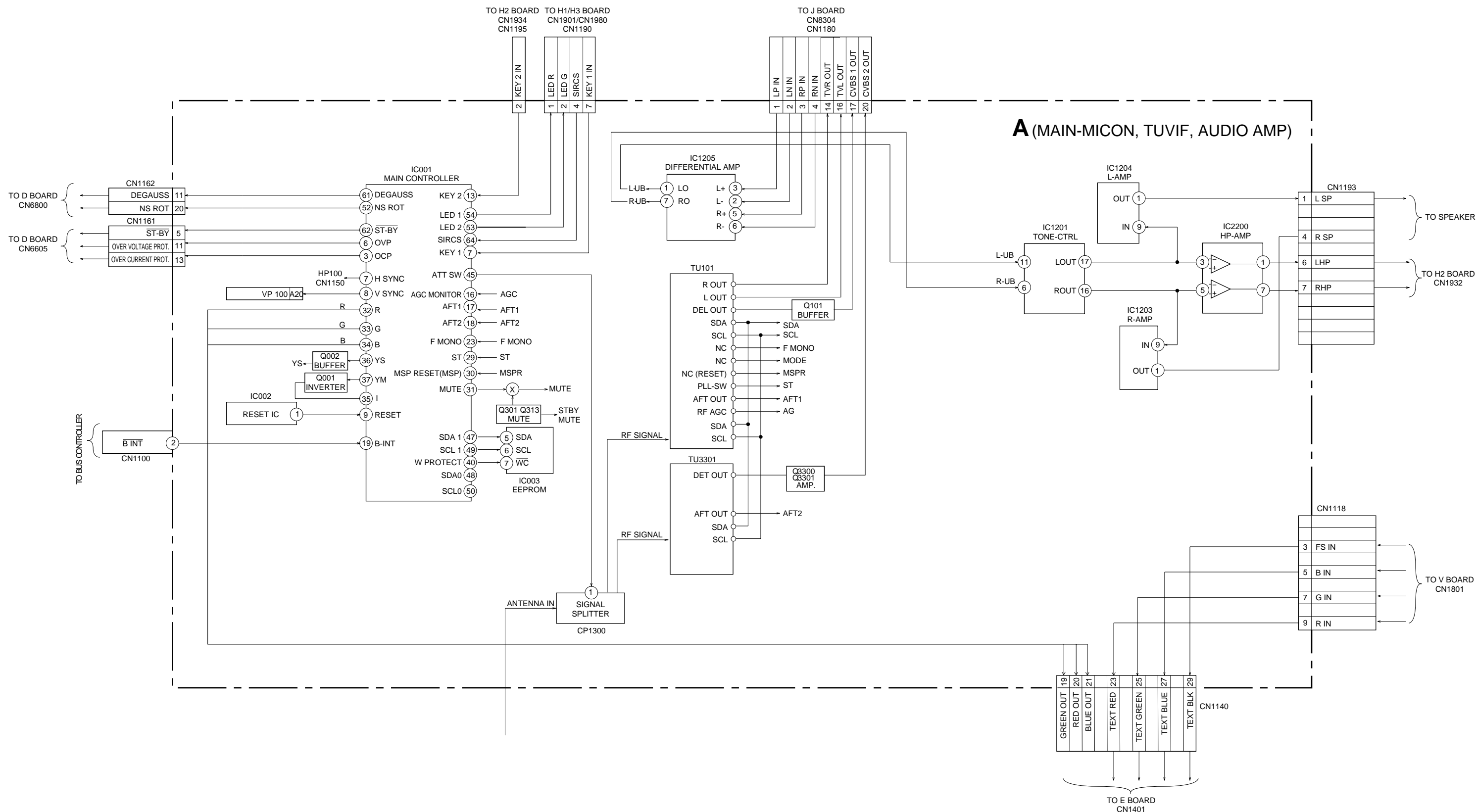
KV-ES34K90
RM-959

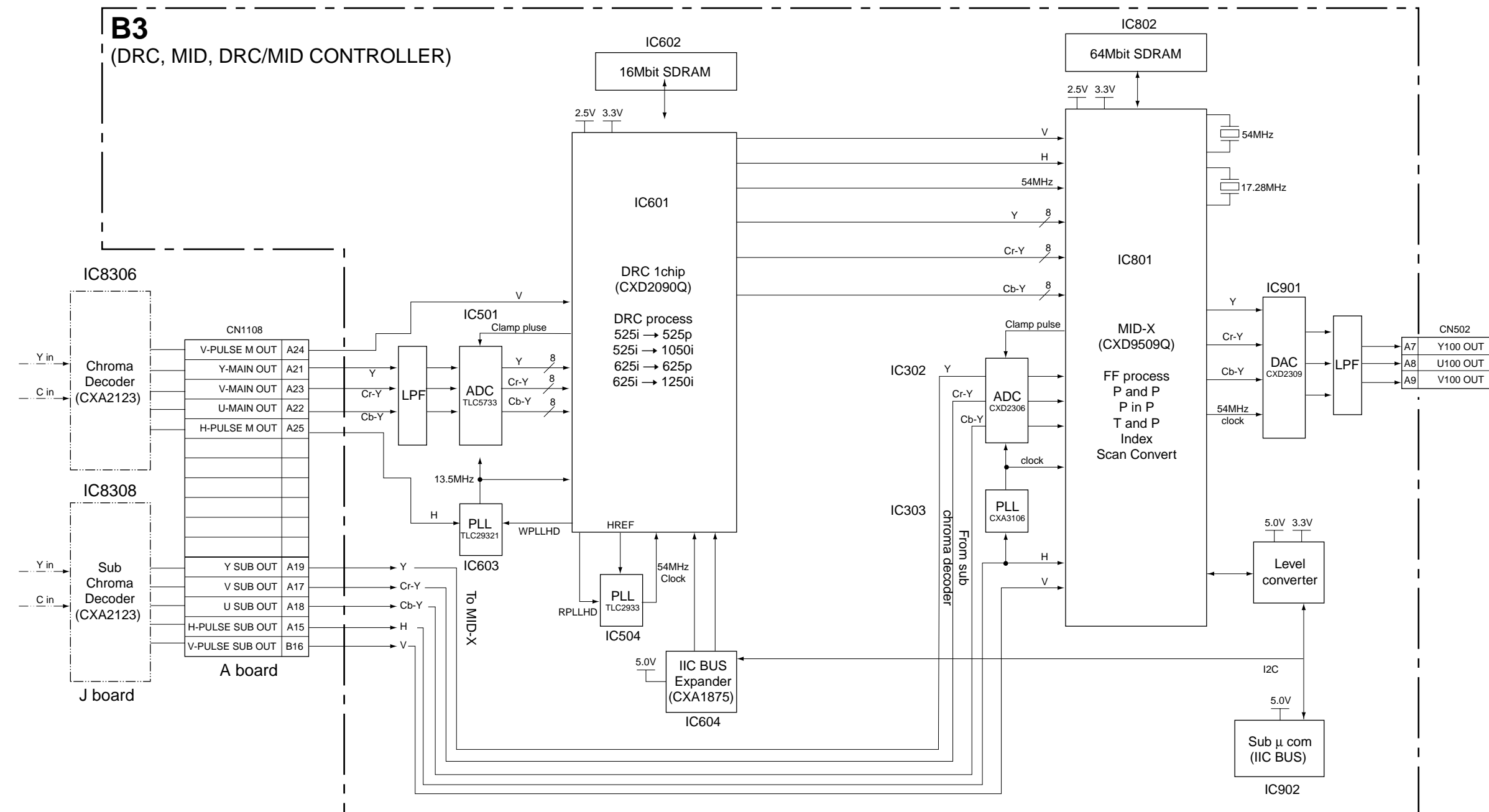
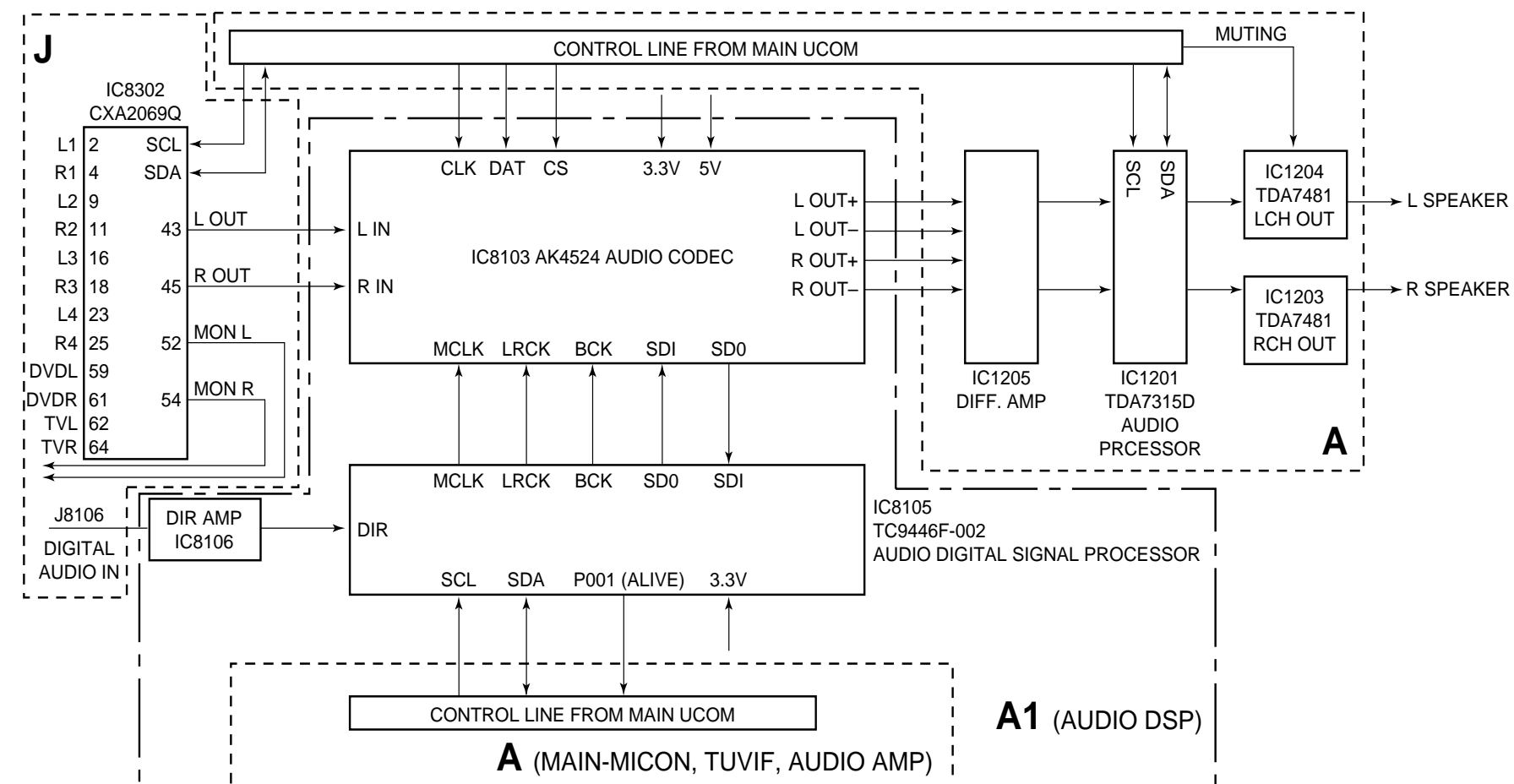


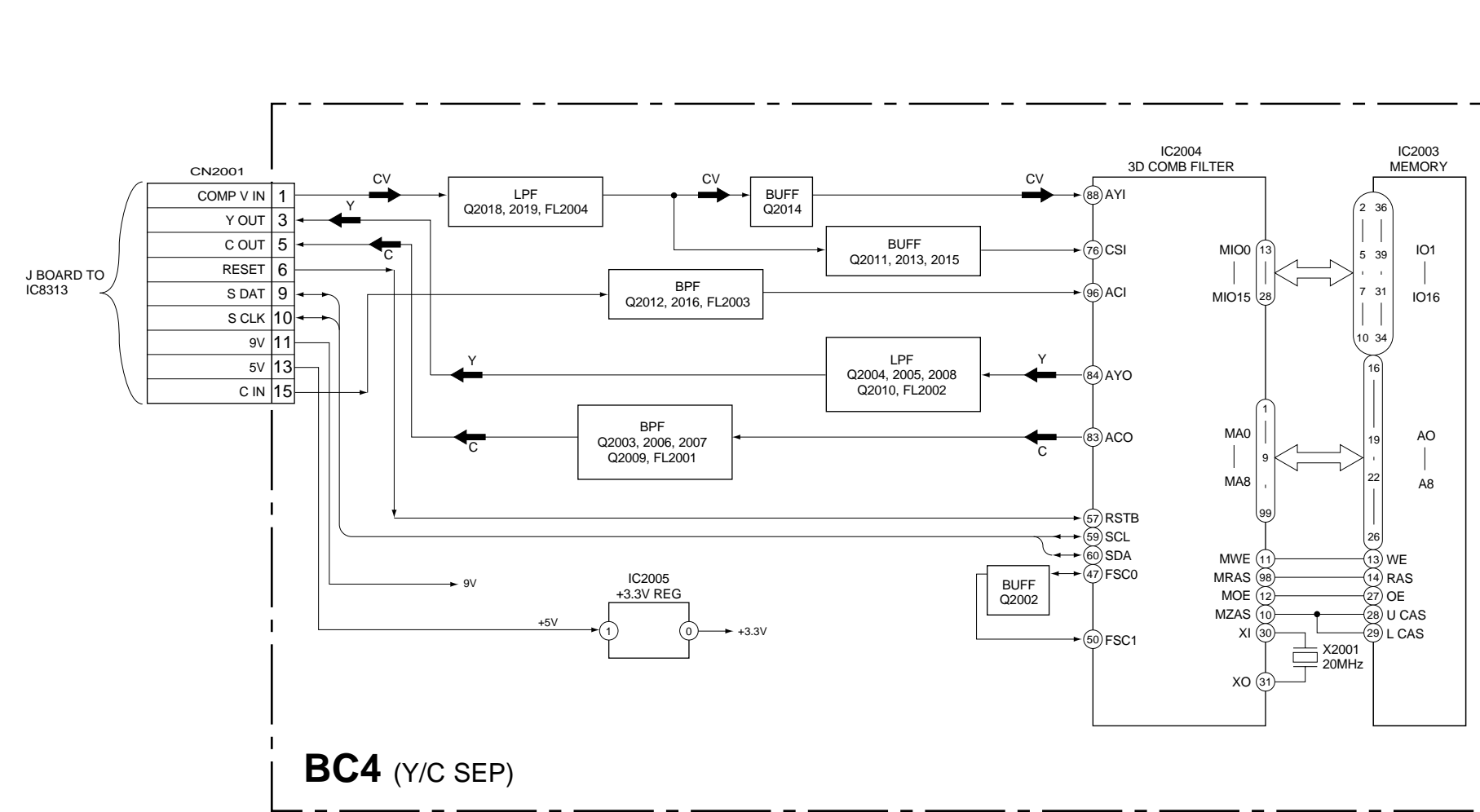
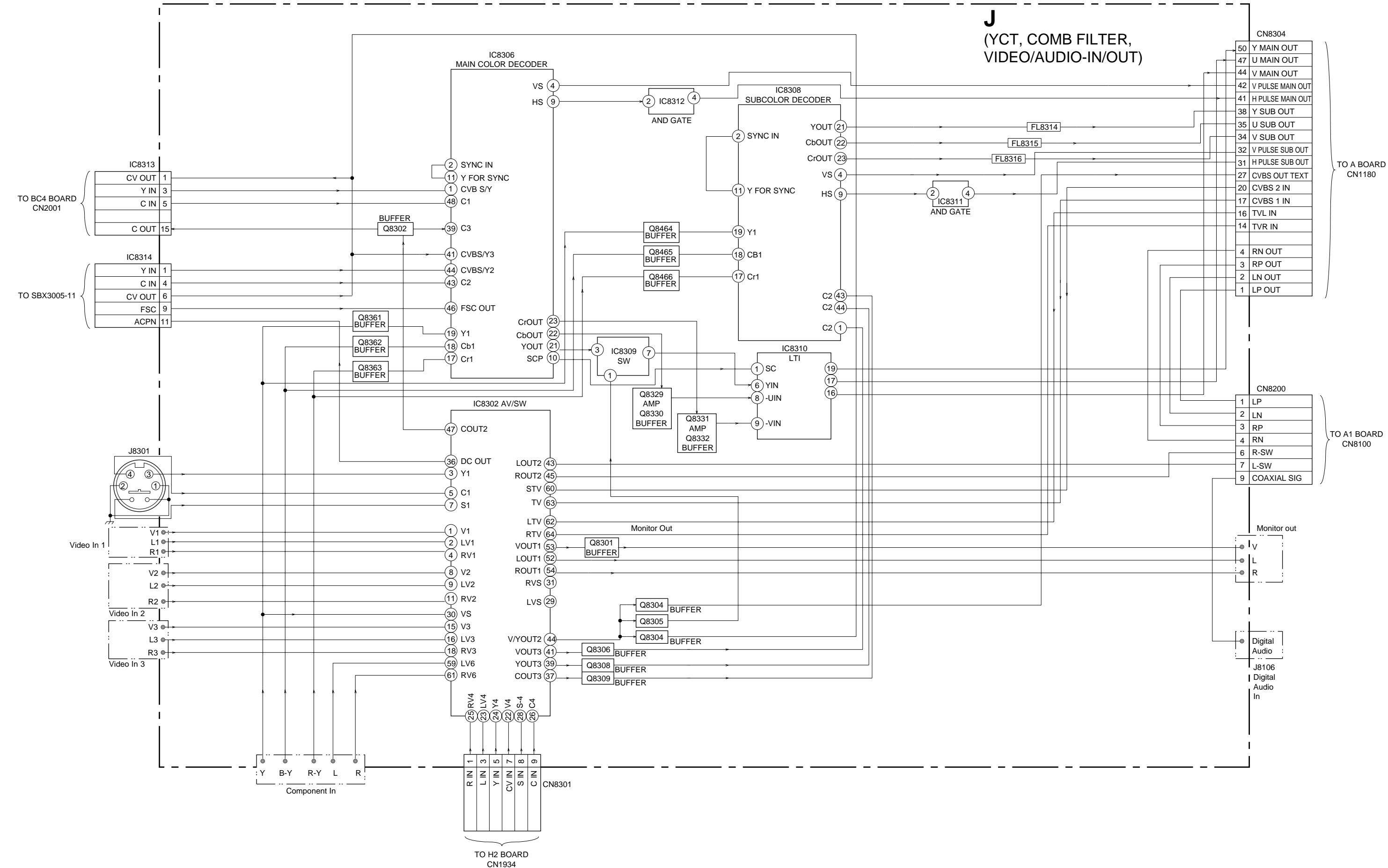
D (POWER SUPPLY, DEFLECTION HV)



E (RGB OUT, DEFLECTION)



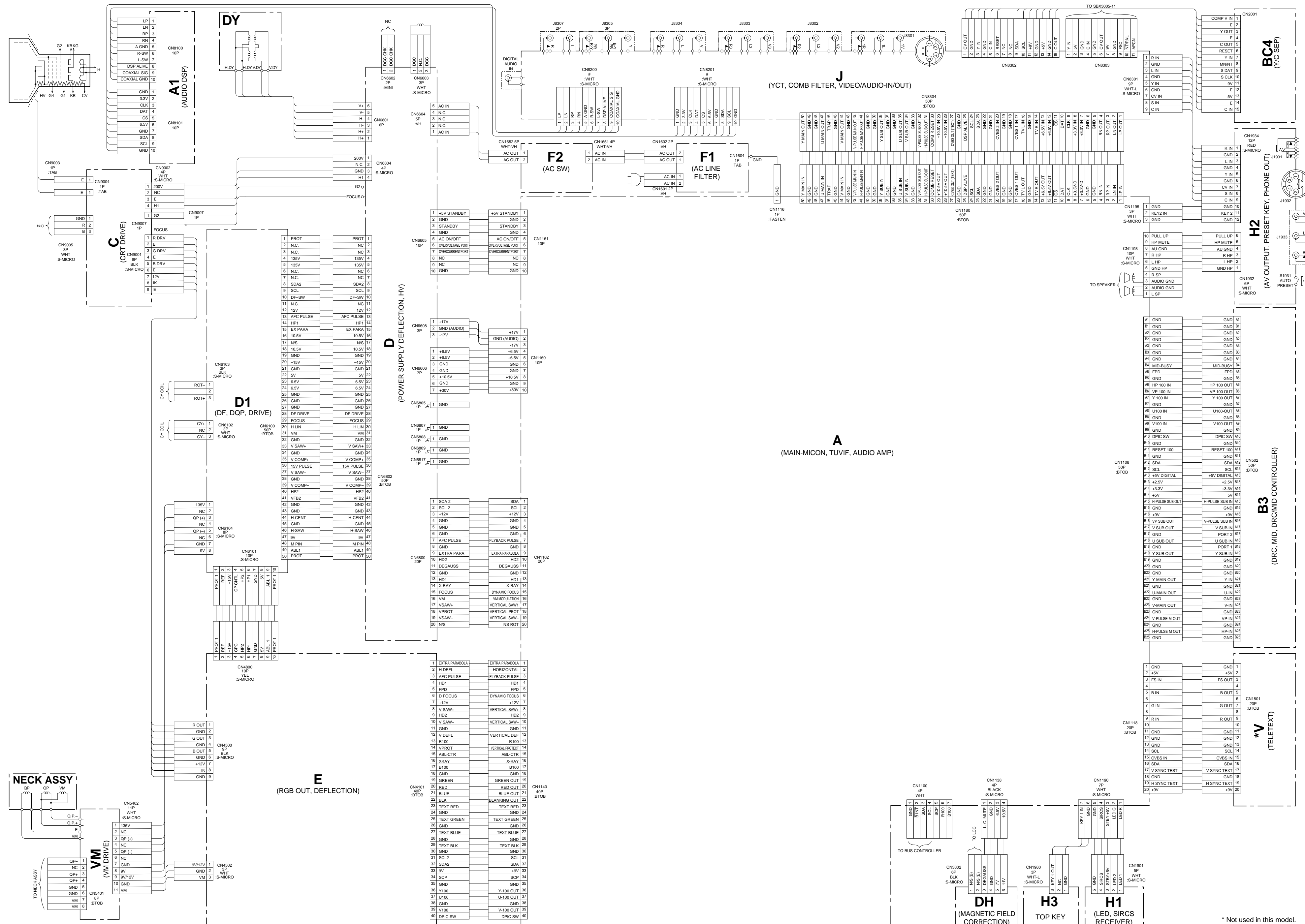




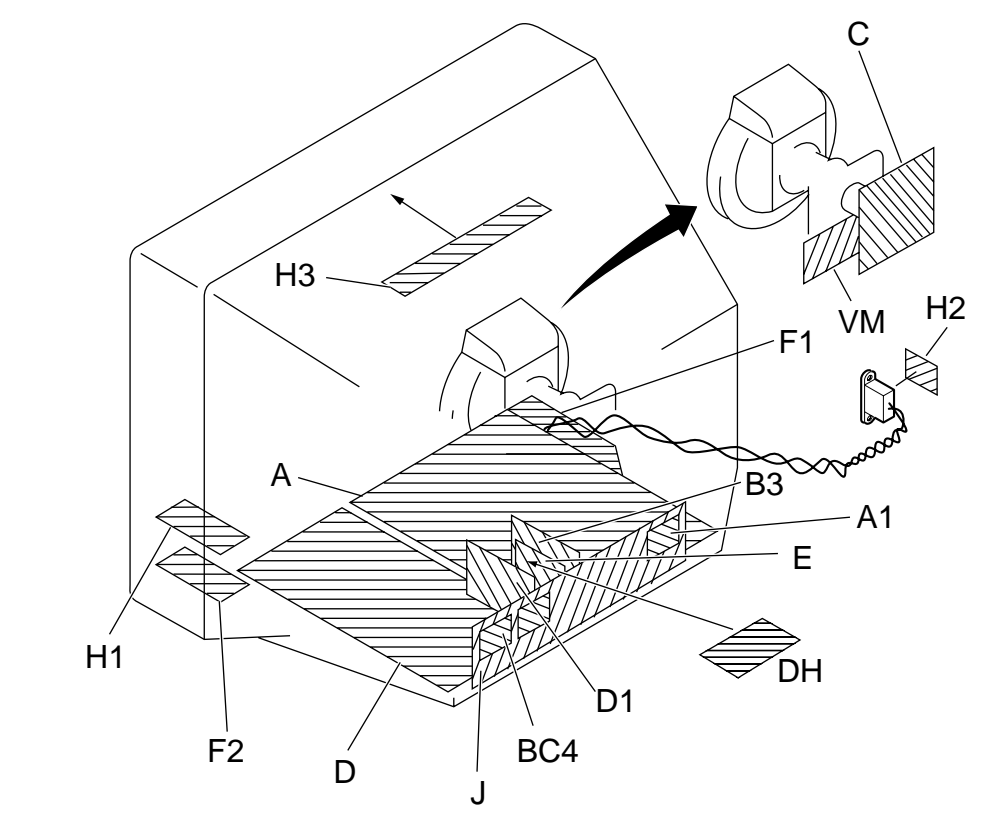
MEMO

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6-2. FRAME SCHEMATIC DIAGRAMS



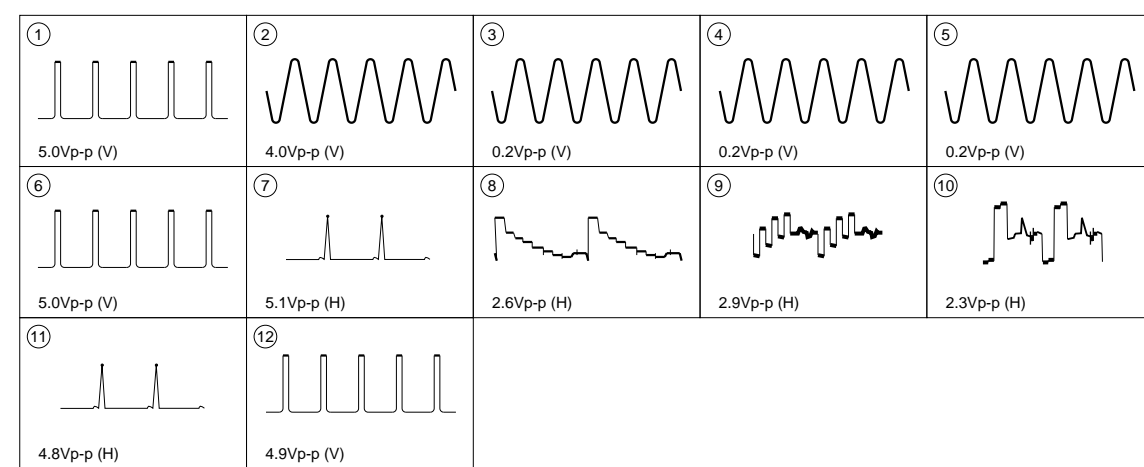
6-3. CIRCUIT BOARDS LOCATION



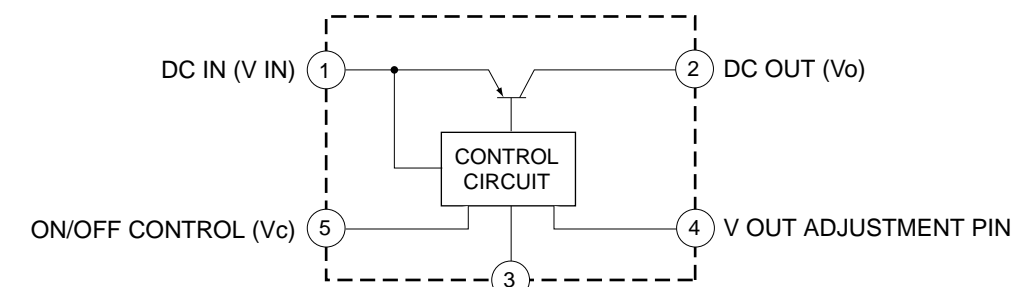
6-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:**
- All capacitors are in μF unless otherwise noted.
 - All electrolytic capacitors are rated at 50V unless otherwise noted.
 - All resistors are in ohms.
 - $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$
 - Indication of resistance which does not have rating electrical power is as follows.
 - Pitch: 5 mm
 - Rating electrical power 1/4W (CHIP: 1/10W)
 - \square : nonflammable resistor.
 - Δ : internal component.
 - \square : panel designation or adjustment for repair.
 - All variable and adjustable resistors have characteristic curve B unless otherwise noted.
 - Readings are taken with a color-bar signal input.
 - no mark : PAL
 - () : SECAM
 - [] : NTSC 3.58
 - \llcorner : NTSC 4.43
- Reference information**
- | | | |
|-----------|---------|--------------------------|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPDF | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : X | ADJUSTMENT RESISTOR |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |
- Note:** The component identified by shading and mark Δ are critical for safety. Replace only with part number specified.

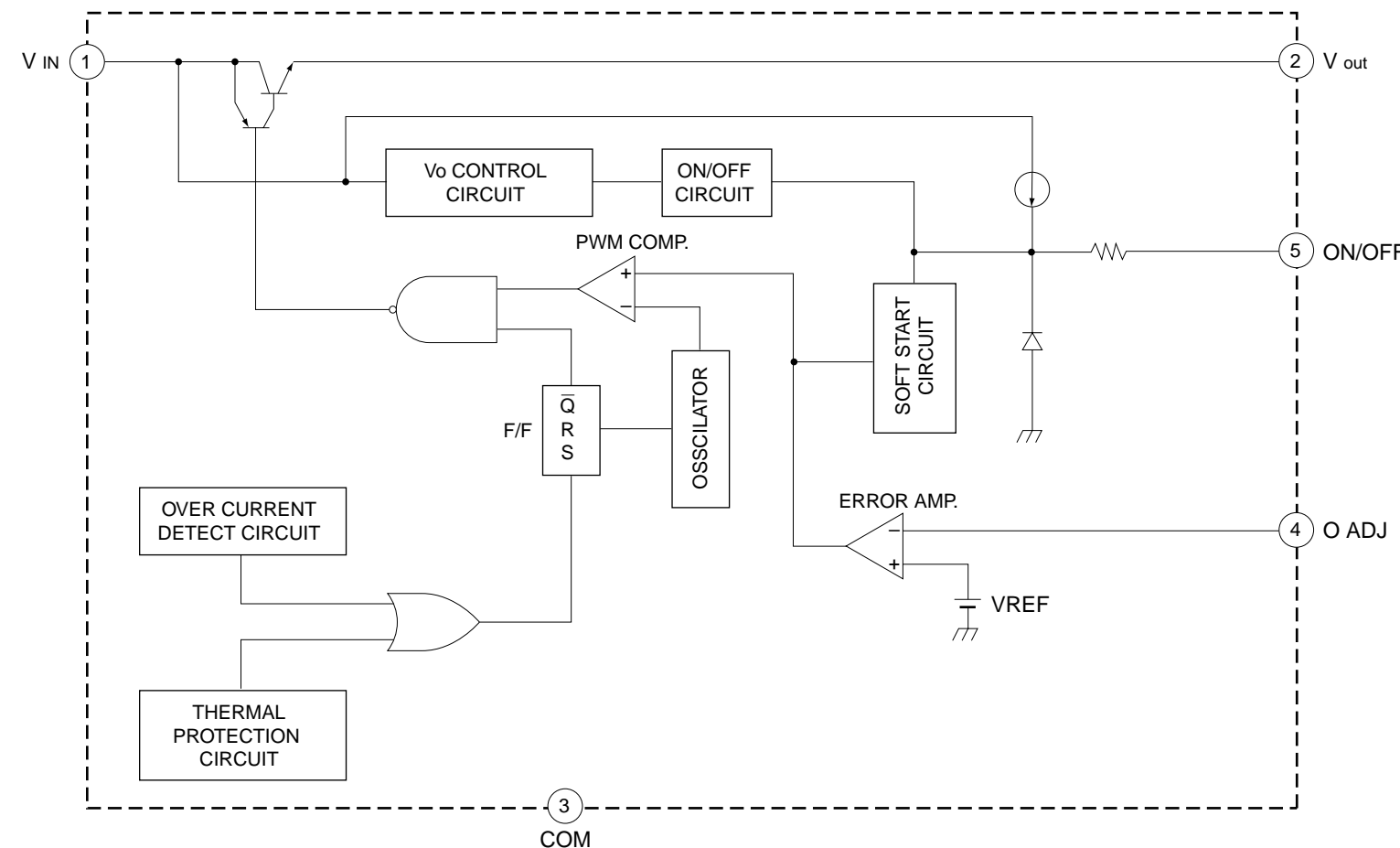
A BOARD WAVEFORMS



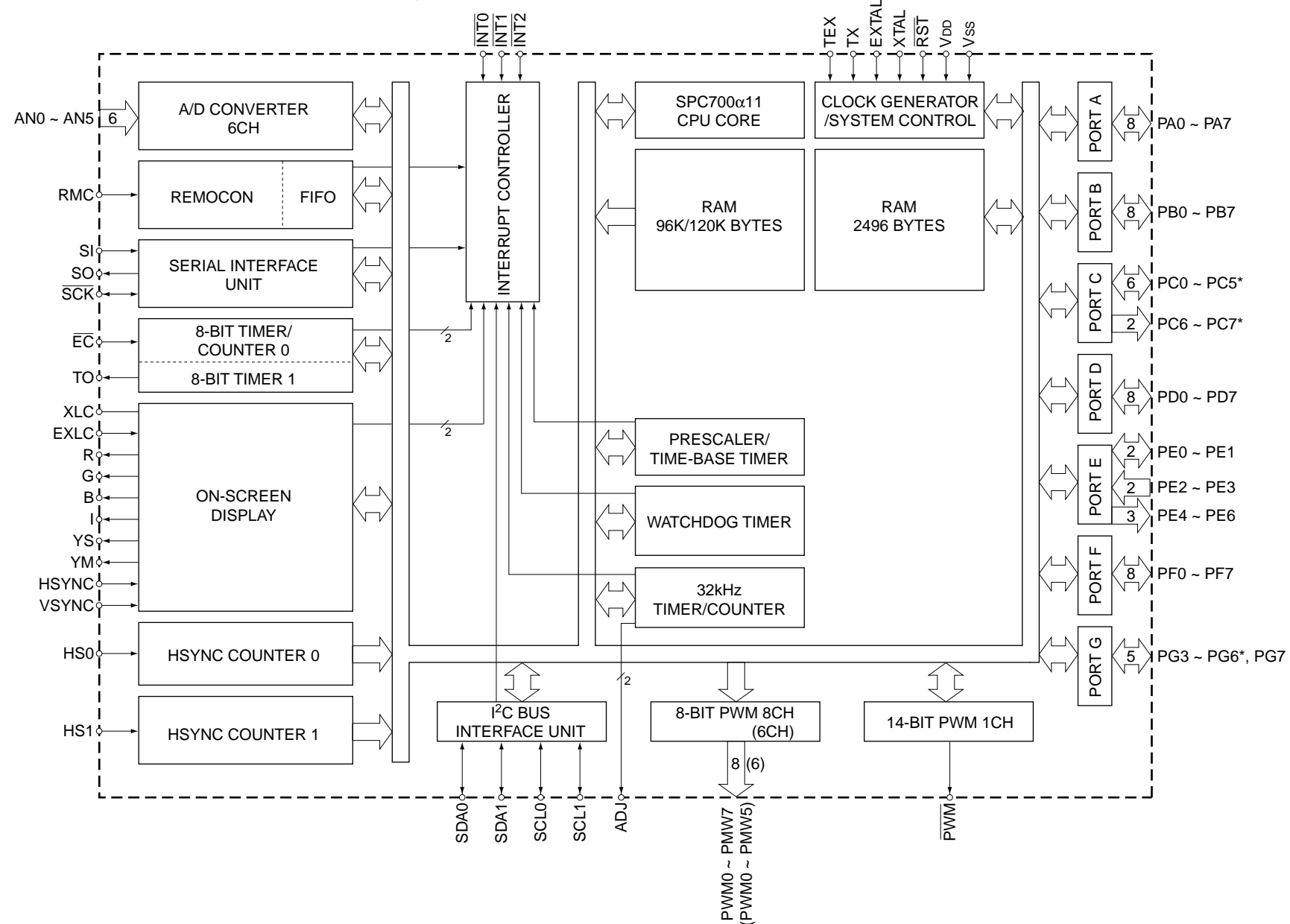
A BOARD IC2604 PQ5EV3



A BOARD IC2603 PQICG2032FZ



A BOARD IC001 CXP750096-019Q



A BOARD A (Component Side)

IC	TRANSISTOR
IC001	B-9
IC002	C-8
IC003	A-8
IC1201	E-13
IC1203	F-13
IC1204	B-13
IC1205	F-12
IC2200	E-12
IC2600	E-8
IC2601	G-10
IC2603	F-9
IC2604	F-8
Q1201	D-12
Q1206	D-13
Q1209	D-13
Q1210	D-13
Q1205	E-13
D1208	E-13
D1209	D-11

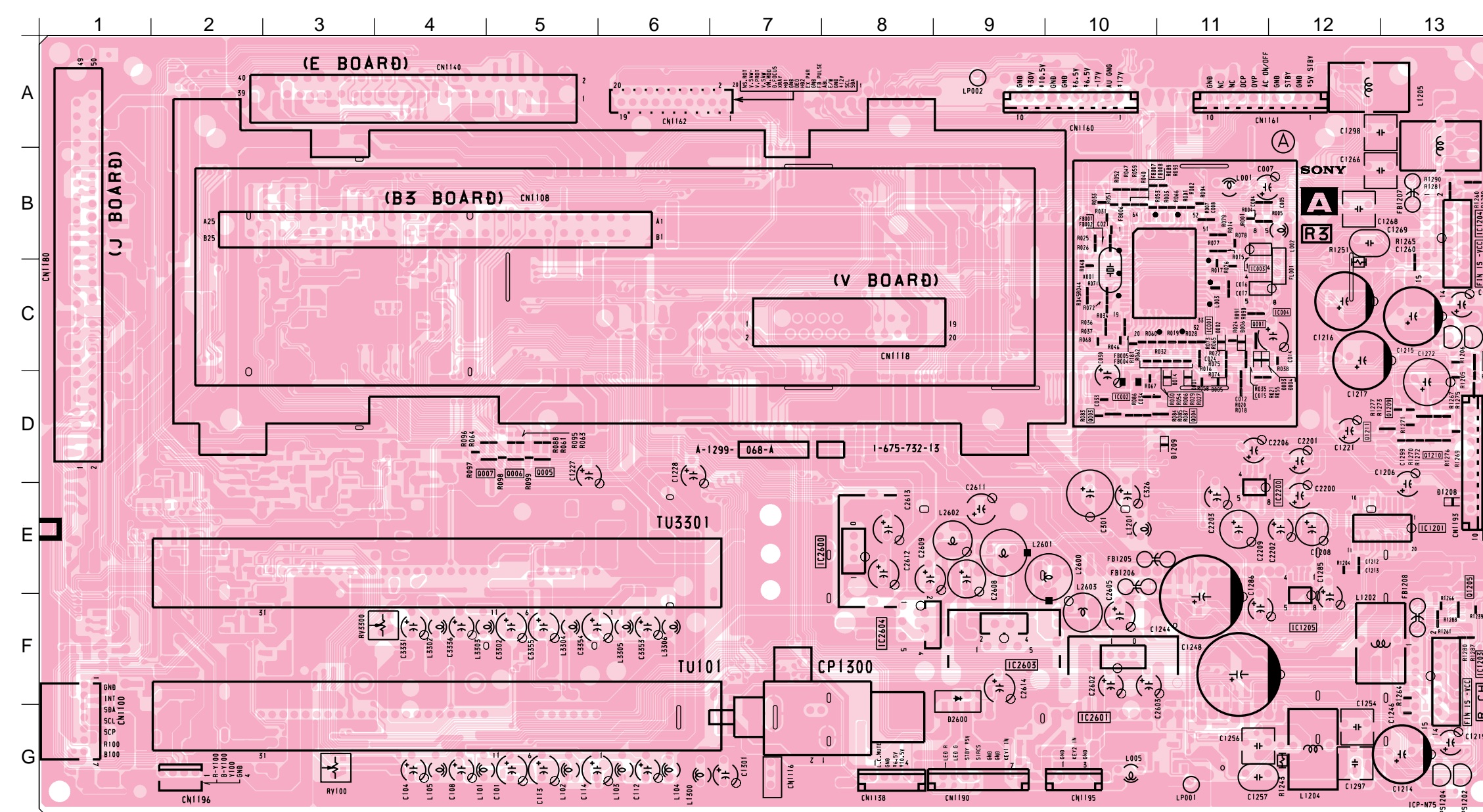
A BOARD B (Conductor Side)

IC	DIODE
IC100	G-10
IC901	I-13
IC1203	G-1
IC1204	B-1
IC2600	E-7
IC2601	F-4
IC2603	F-5
IC2604	F-6
Q101	G-11
Q301	D-4
Q313	D-4
Q902	I-13
Q2200	D-3
Q2201	E-4
Q3300	F-11

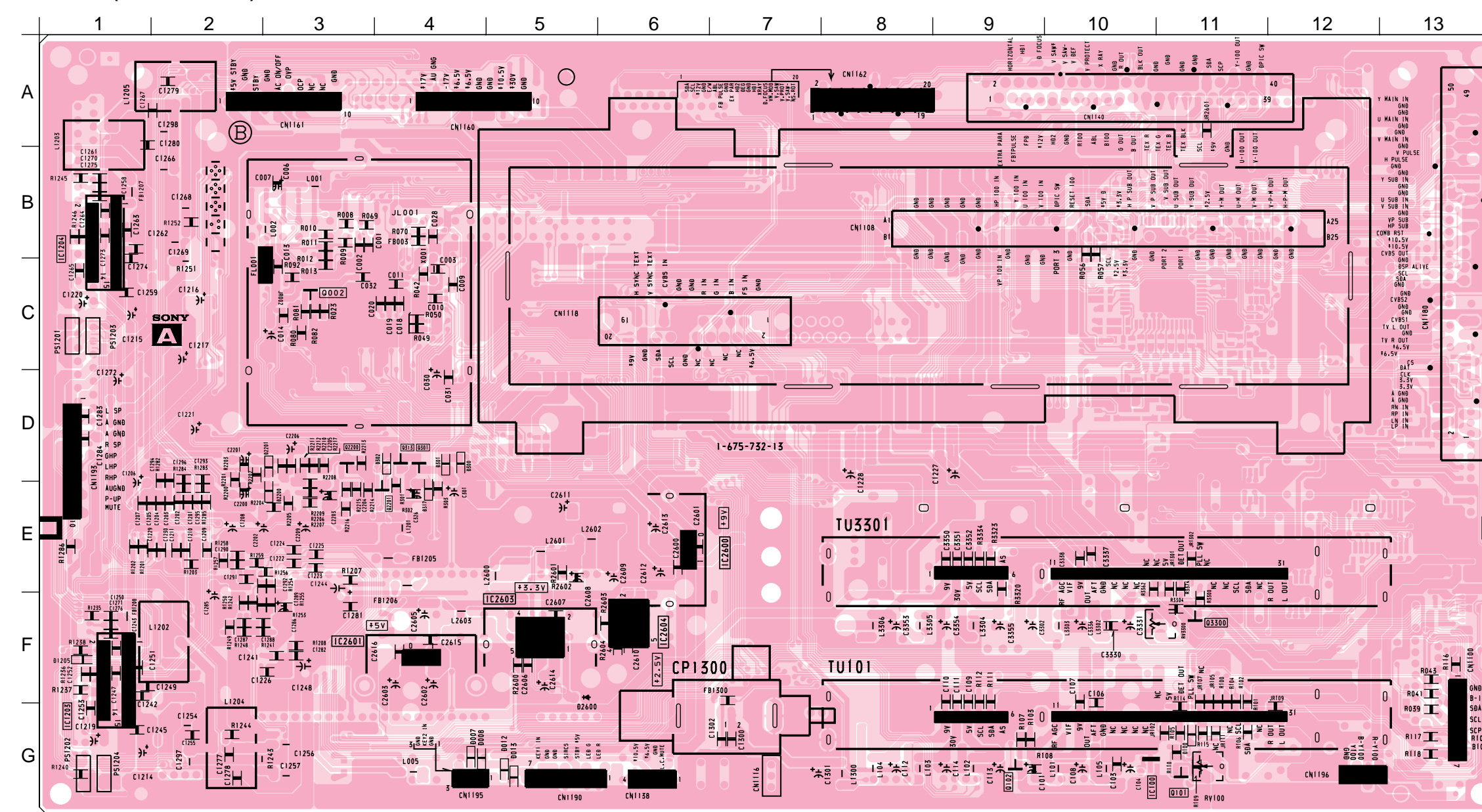
PRINTED WIRING BOARDS

A [MAIN-MICON, TUVIF, AUDIO AMP]

- A Board (Component Side) -

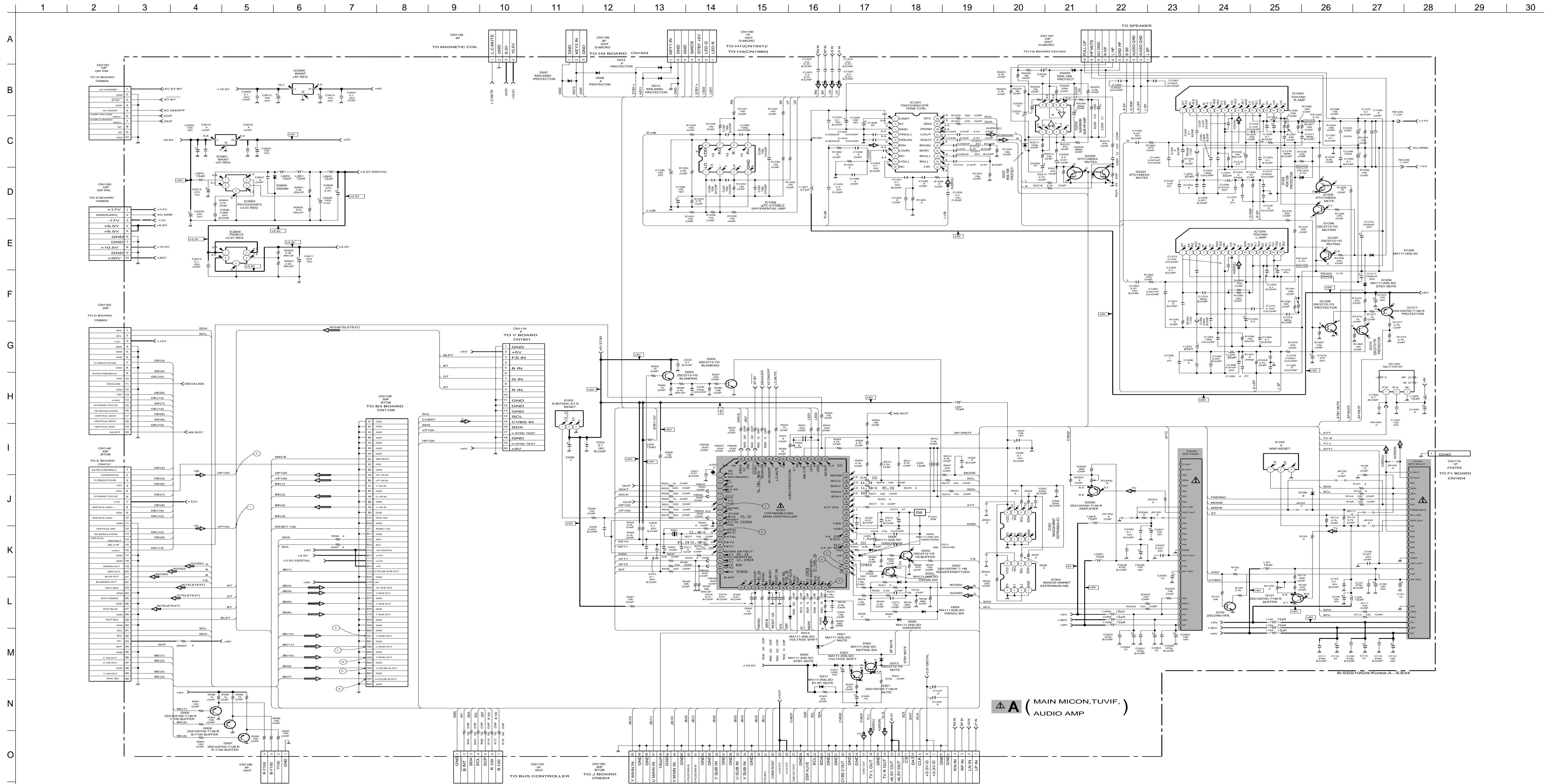


- A Board (Conductor Side) -

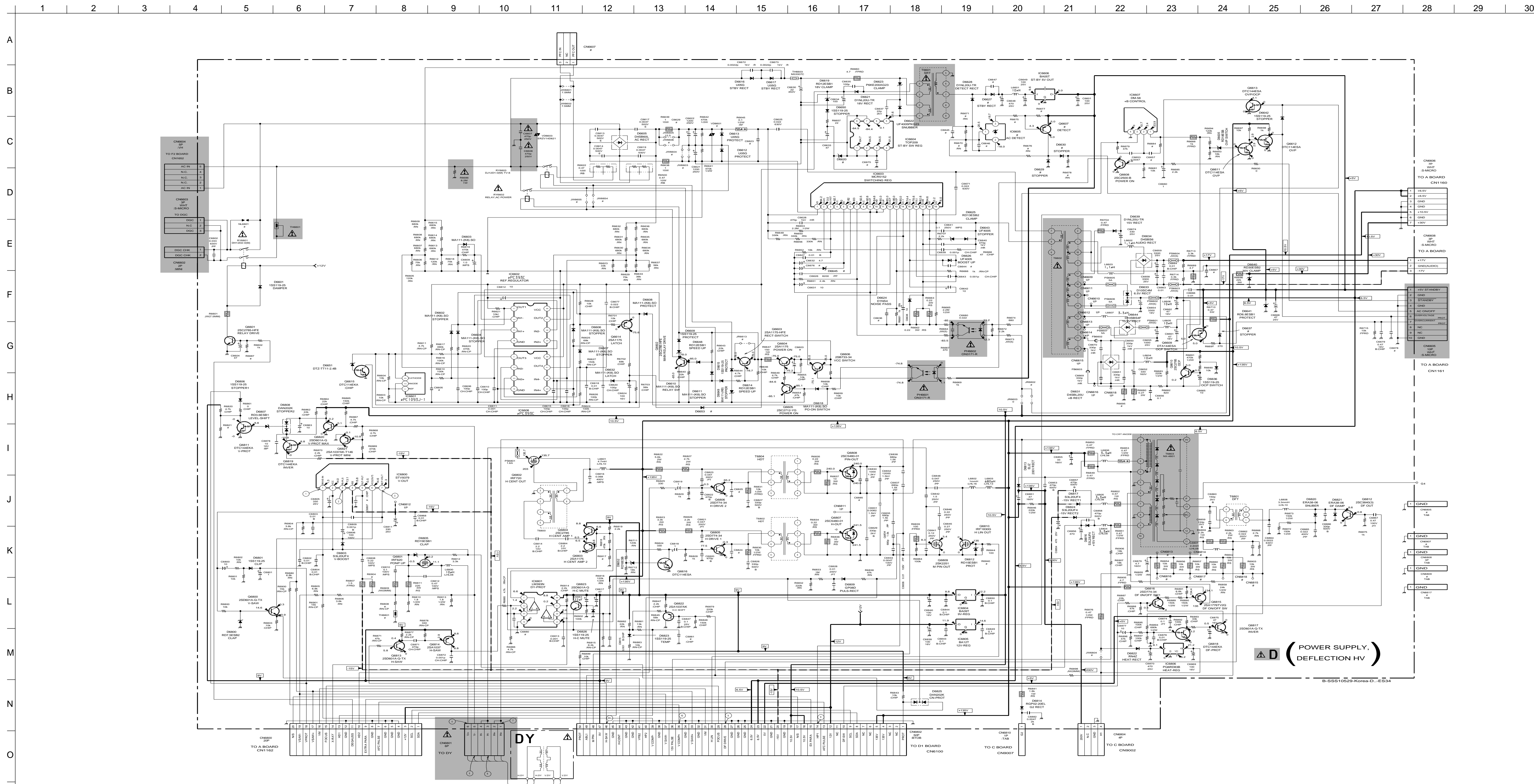


- Pattern from the side which enables seeing.
- Pattern from the rear side.

(1) Schematic Diagram of A Board



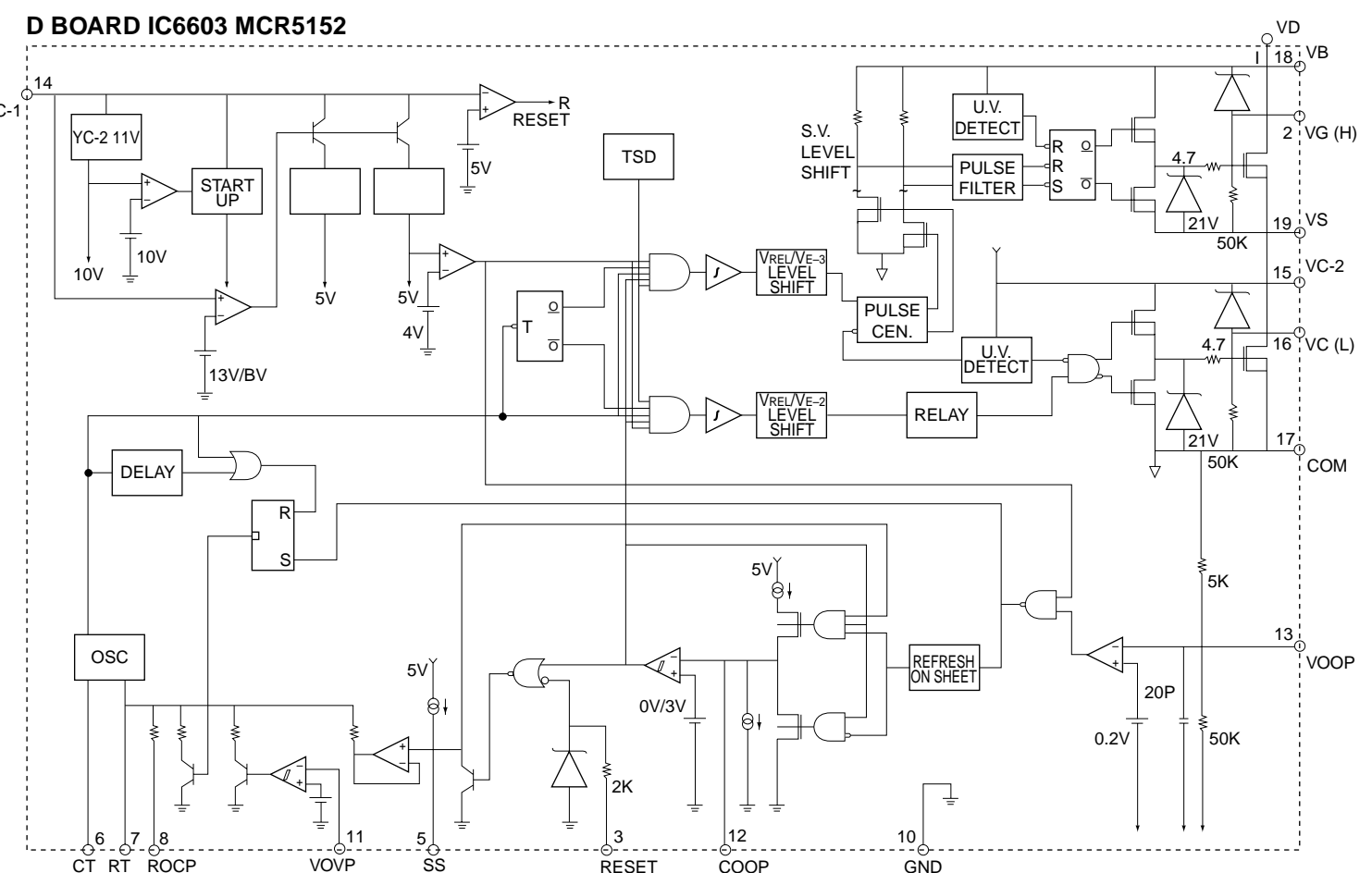
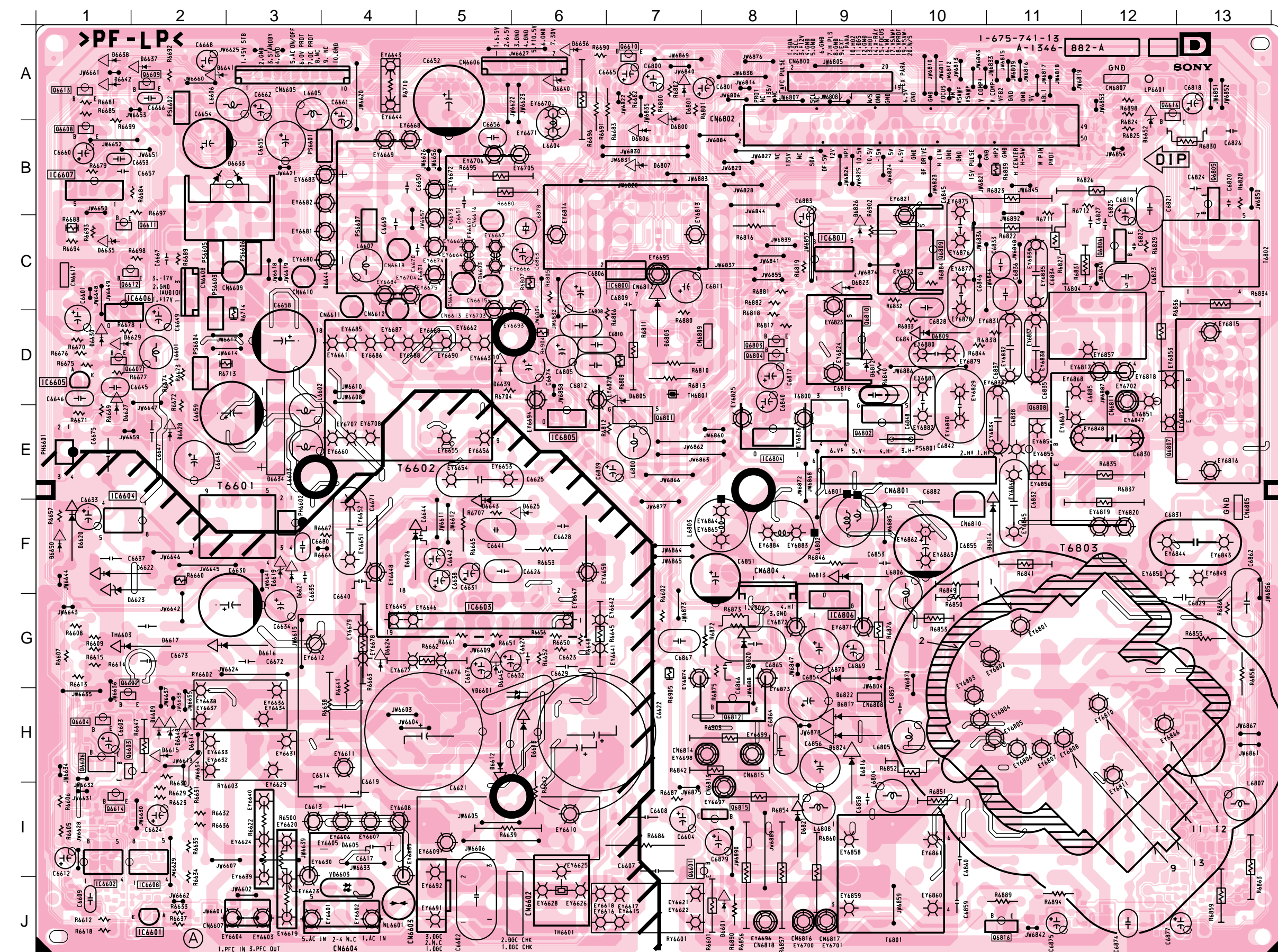
(2) Schematic Diagram of D Board



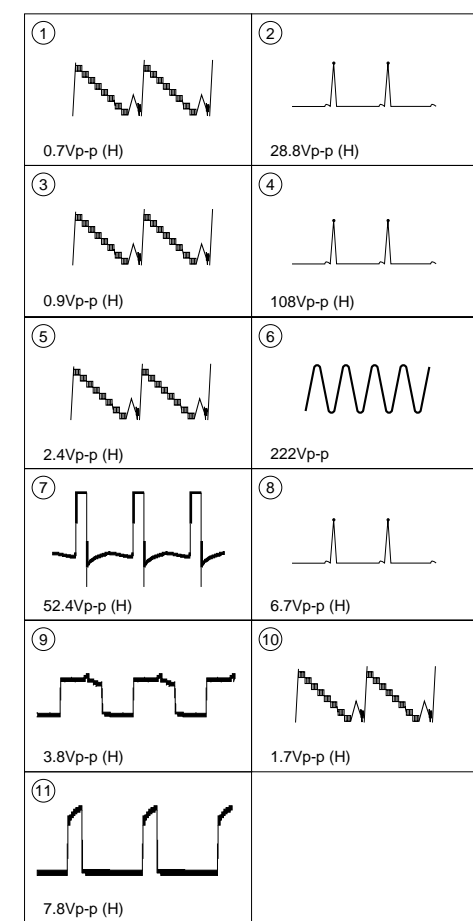
PRINTED WIRING BOARDS

D [POWER SUPPLY, DEFLECTION HV]

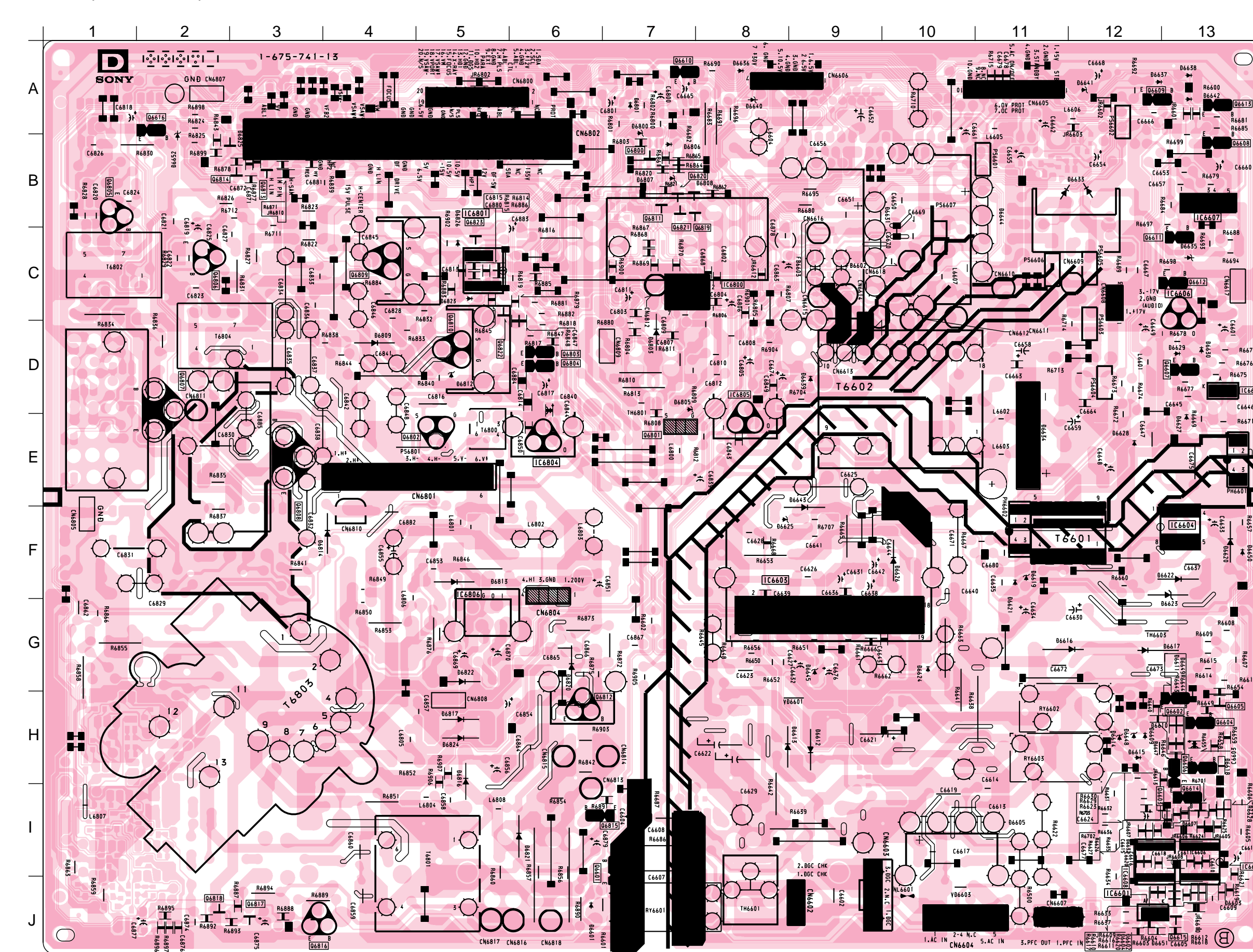
- D Board (Component Side) -



D BOARD WAVEFORMS



- D Board (Conductor Side) -



- Pattern from the side which enables seeing.
- Pattern from the rear side.

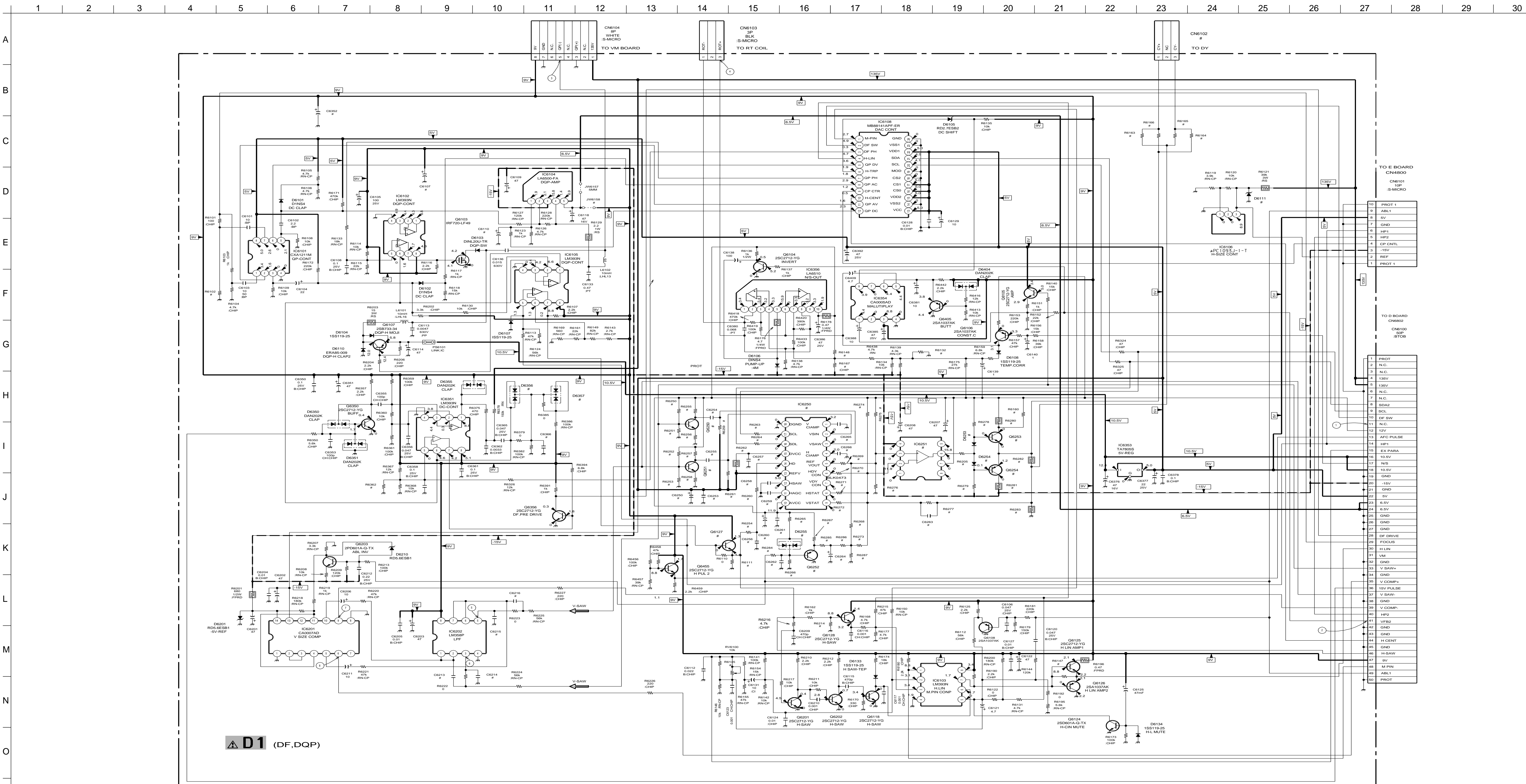
D BOARD (Component Side)

IC	DIODE	D6642 A-1
IC6601 J-2	D6601 J-8	D6643 F-5
IC6602 J-2	D6605 I-4	D6644 C-4
IC6603 G-5	D6609 H-2	D6645 G-5
IC6604 E-1	D6612 H-5	D6648 H-2
IC6605 D-1	D6613 H-6	D6650 F-1
IC6606 C-1	D6614 H-2	D6800 B-7
IC6607 B-1	D6615 H-2	D6801 A-7
IC6608 C-7	D6616 G-3	D6802 D-7
IC6609 C-9	D6617 G-2	D6805 E-7
IC6604 E-8	D6619 F-3	D6806 B-7
IC6605 E-6	D6620 F-1	D6807 B-7
IC6606 G-9	D6621 F-3	D6809 D-10
	D6622 F-2	D6812 D-9
	D6623 F-2	D6813 F-9
	D6624 G-2	D6814 C-11
	D6624 G-4	D6816 I-9
	D6625 F-6	D6817 H-9
	D6626 F-4	D6820 H-8
	D6627 E-1	D6821 I-9
	D6628 E-2	D6822 G-9
	D6629 D-2	D6823 C-9
	D6630 D-1	D6824 H-10
	D6631 C-5	D6826 C-9
	D6633 B-3	Q6805 B-12
	D6634 E-3	Q6806 C-12
	D6635 C-1	Q6807 B-12
	D6636 A-2	Q6808 E-11
	D6637 A-2	Q6809 C-10
	D6638 A-1	Q6810 D-10
	D6639 D-5	Q6812 H-B
	D6640 A-6	Q6814 I-1
	D6641 A-3	Q6815 I-8
		Q6816 I-11

D BOARD (Conductor Side)

IC	DIODE	D6617 G-12	D6807 B-7
IC6601 J-12	Q6807 D-2	D6618 F-11	D6808 B-8
IC6602 H-2	Q6808 E-3	D6619 F-11	D6809 D-5
IC6603 F-8	Q6809 C-4	D6620 F-13	D6810 D-4
IC6604 F-13	Q6810 D-5	D6621 G-13	D6811 F-5
IC6605 D-13	Q6811 C-7	D6622 F-10	D6813 F-5
IC6606 C-13	Q6812 H-6	D6623 F-9	D6814 F-4
IC6607 B-13	Q6813 J-3	D6624 H-12	D6816 I-5
IC6608 C-8	Q6814 J-3	D6625 E-12	D6817 H-5
IC6609 B-13	Q6815 C-8	D6626 B-10	D6820 H-G
IC6604 E-6	Q6816 C-7	D6627 B-10	D6821 G-6
IC6605 D-8	Q6817 C-7	D6628 D-13	D6822 H-5
IC6606 F-5	Q6818 C-5	D6629 E-13	D6823 B-3
		D6630 E-13	D6824 H-5
		D6631 C-13	D6825 B-3
		D6632 C-13	D6826 C-5
		D6633 A-8	
		D6634 A-13	
		D6635 A-13	
		D6636 D-9	
		D6637 A-8	
		D6638 A-12	
		D6639 A-13	
		D6640 E-9	
		D6641 C-11	
		D6642 H-12	
		D6643 G-13	
		D6644 F-13	
		D6645 H-9	
		D6646 H-12	
		D6647 G-13	
		D6648 F-13	
		D6649 B-7	
		D6650 A-7	
		D6651 H-12	
		D6652 E-7	
		D6653 E-7	
		D6654 B-7	

(3) Schematic Diagram of D1 Board



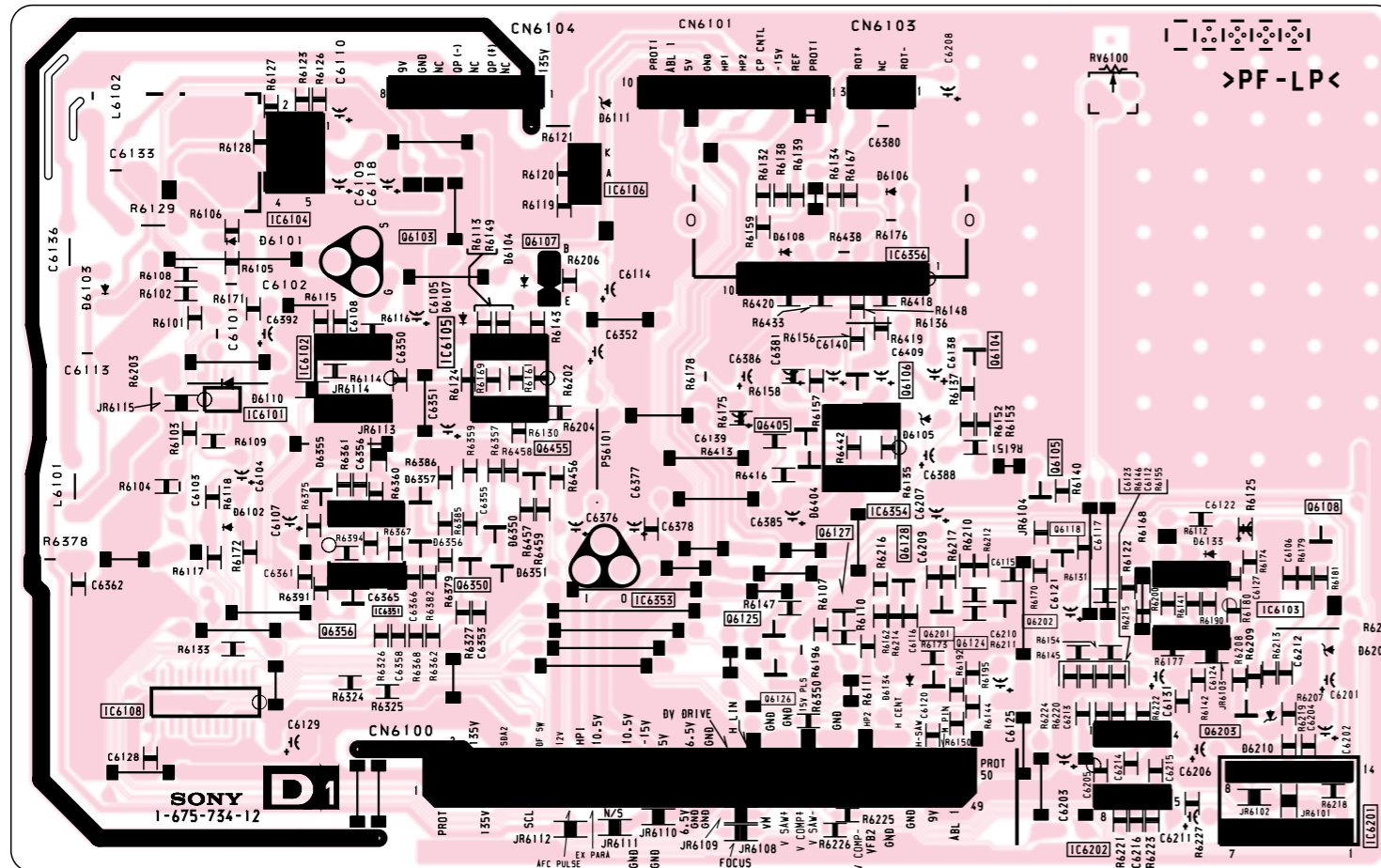
D1 (DF,DQP)

B-SSS10529-Korea-D1-ES34

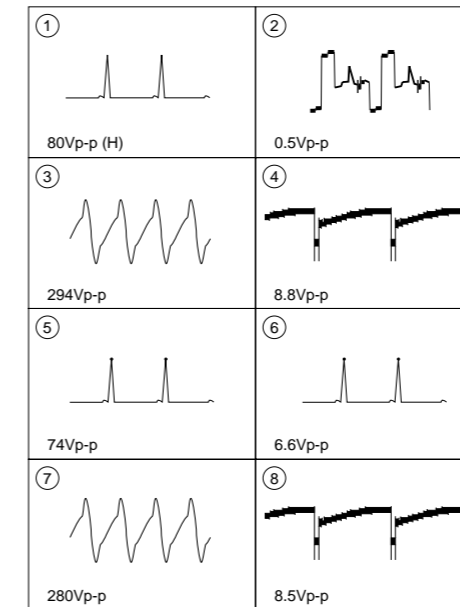
PRINTED WIRING BOARD

D1 [DF, DQP DRIVE]

– D1 Board –



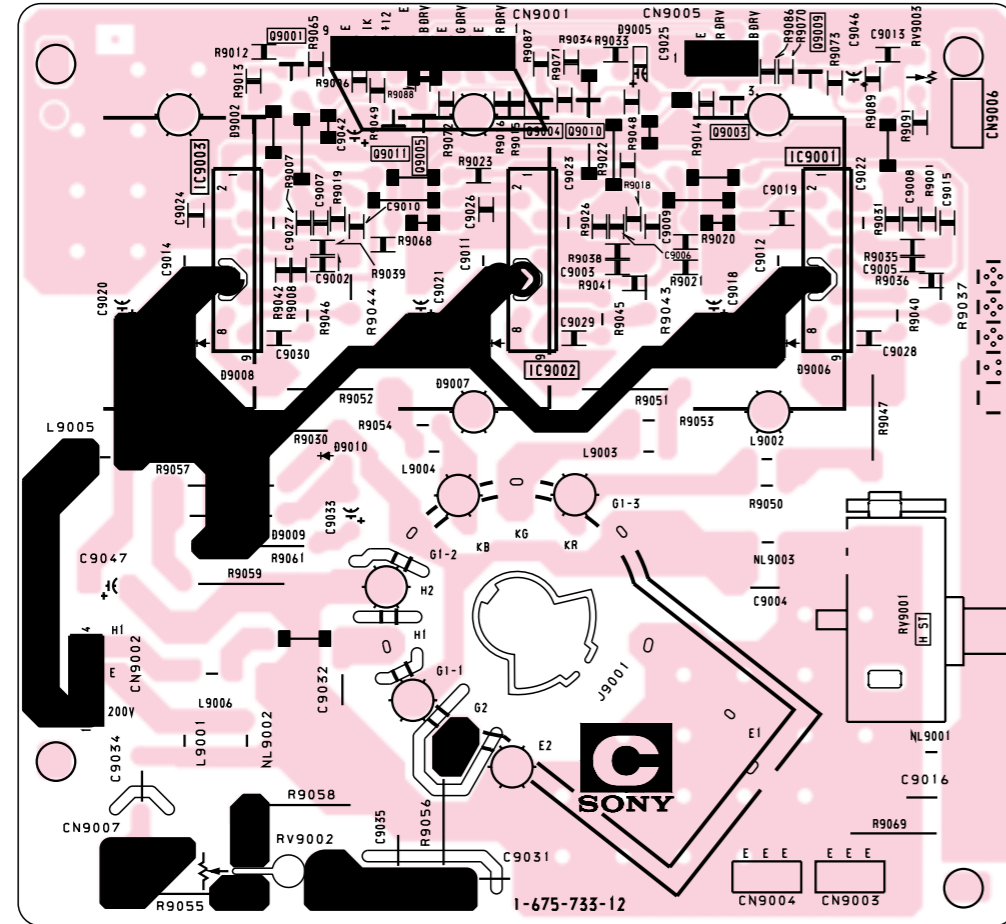
D1 BOARD WAVEFORMS



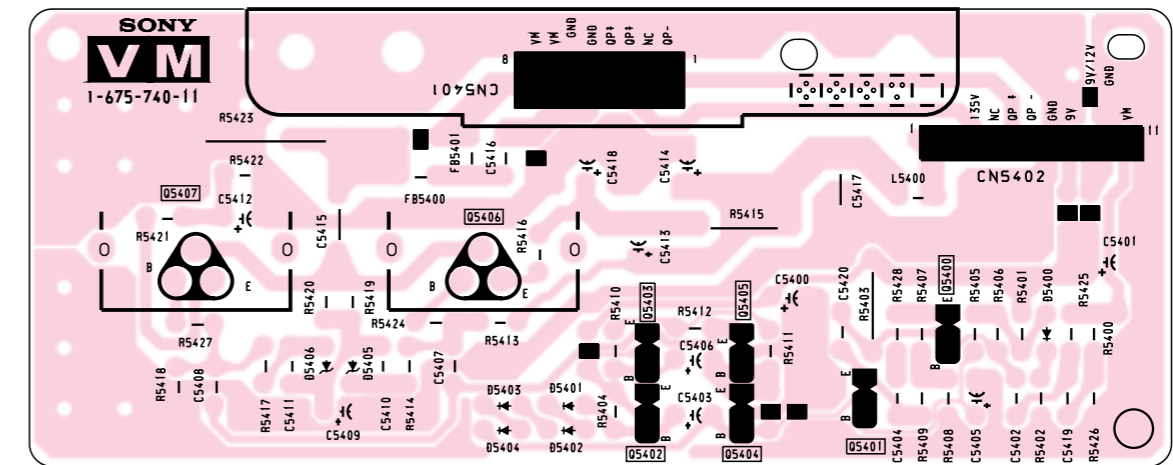
PRINTED WIRING BOARDS

C [CRT DRIVE] **VM** [VM DRIVE] **F1** [AC LINE FILTER]

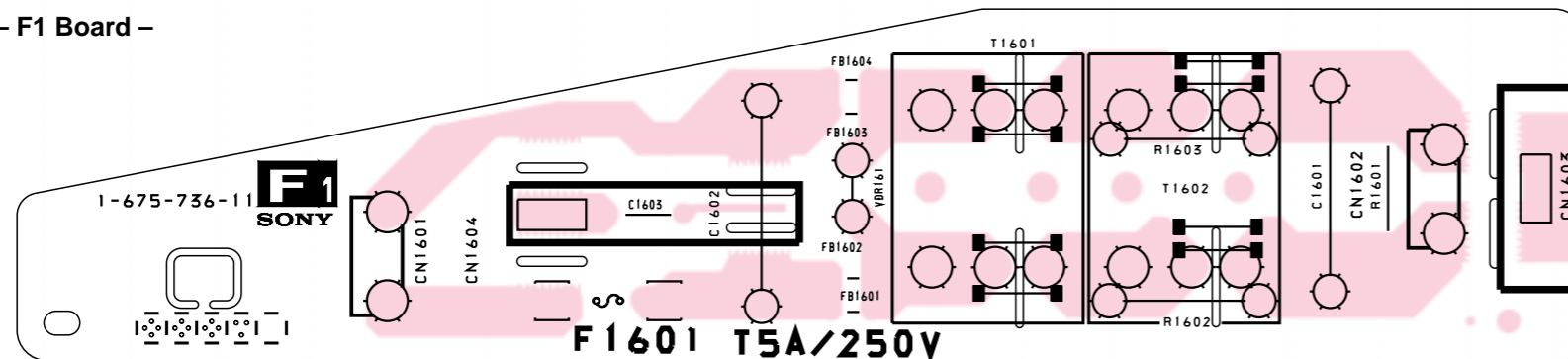
- C Board -



- VM Board -



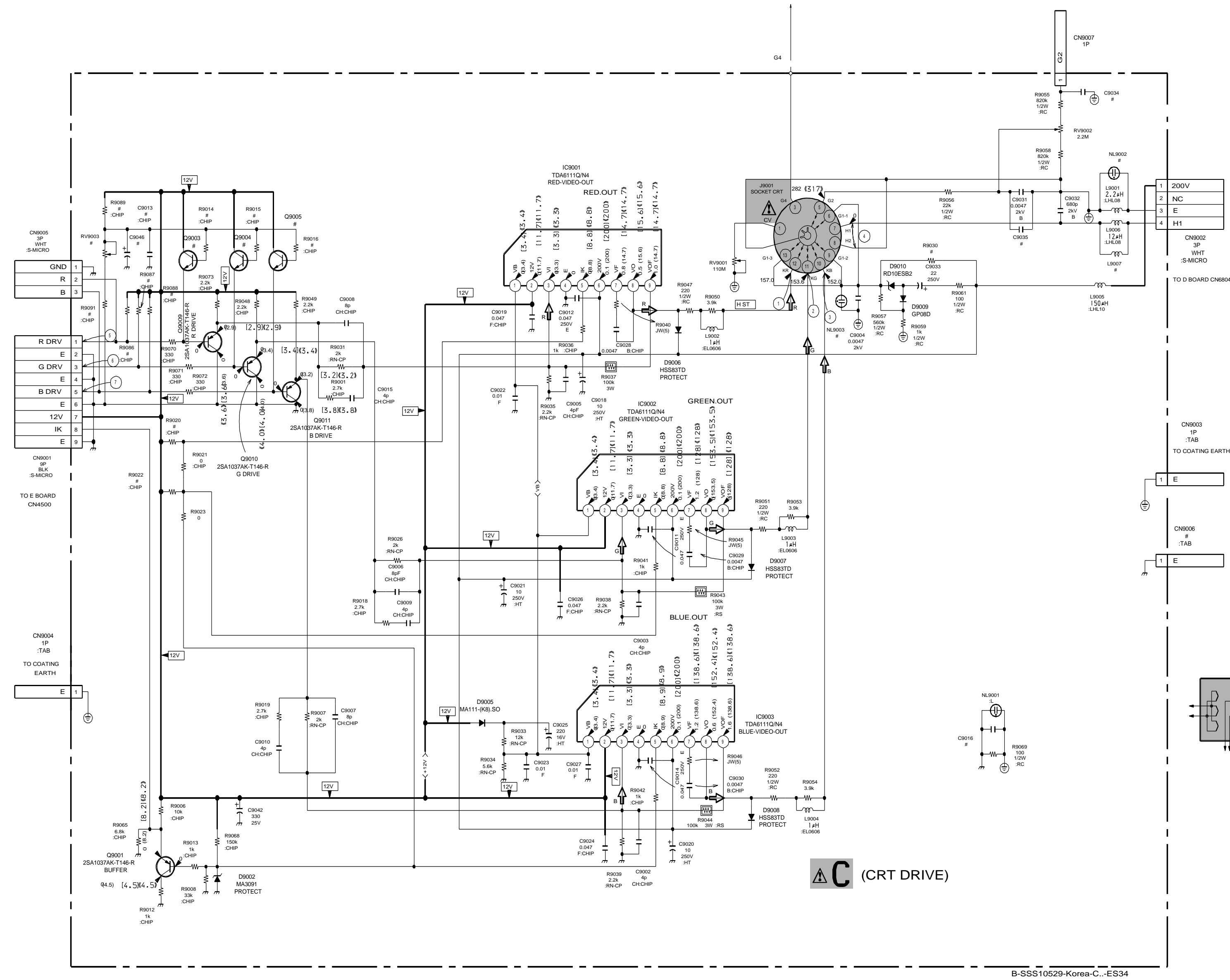
- F1 Board -



(4) Schematic Diagrams of C, F1 and VM Boards

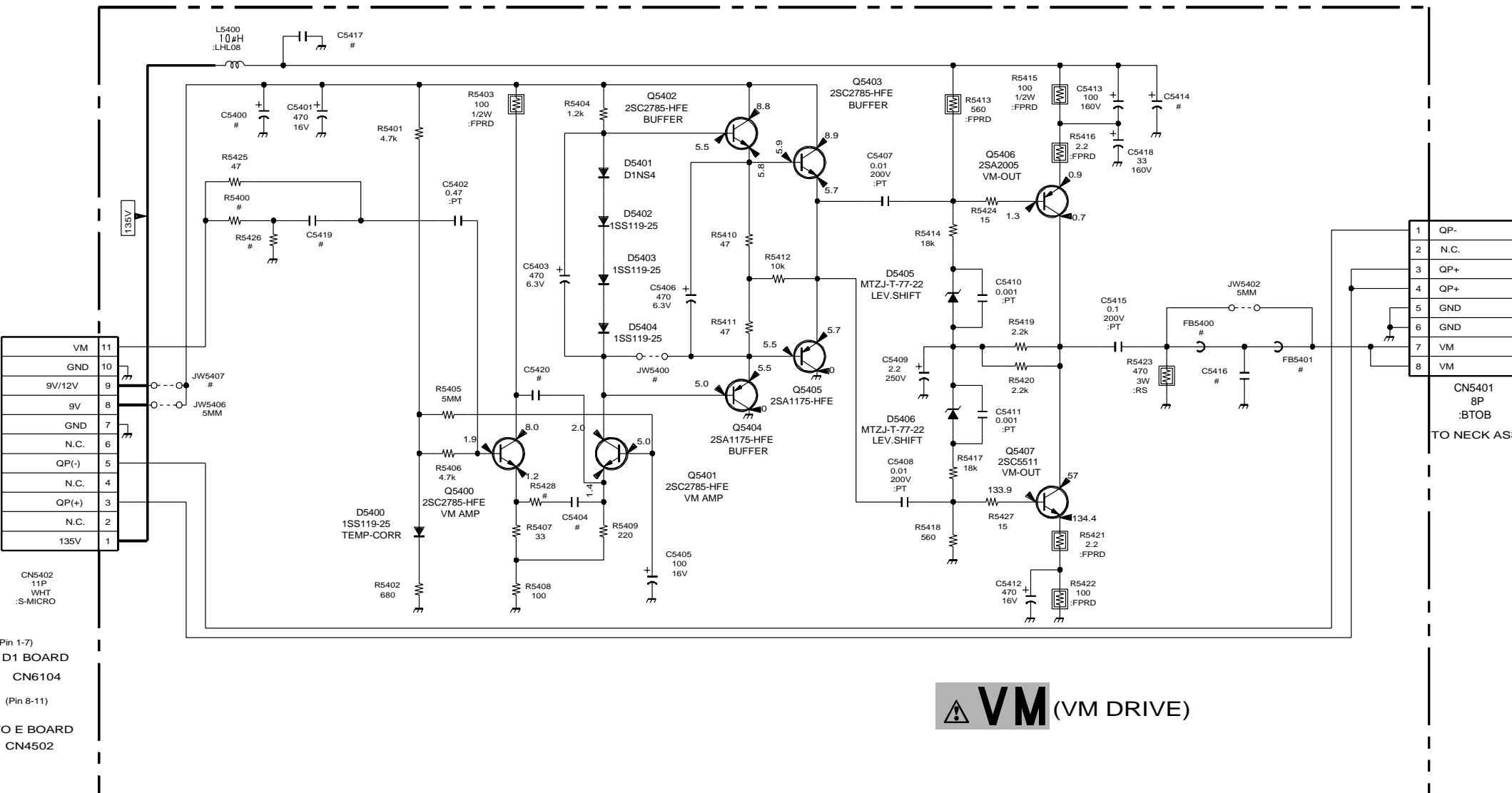
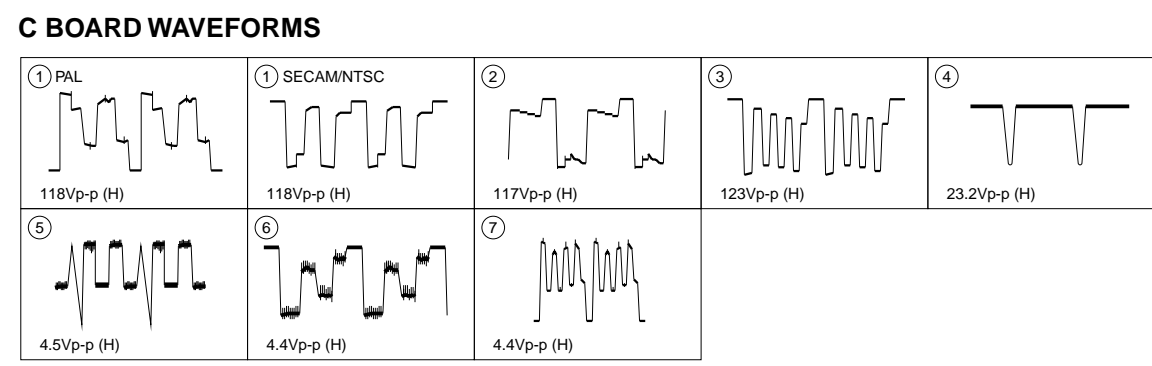
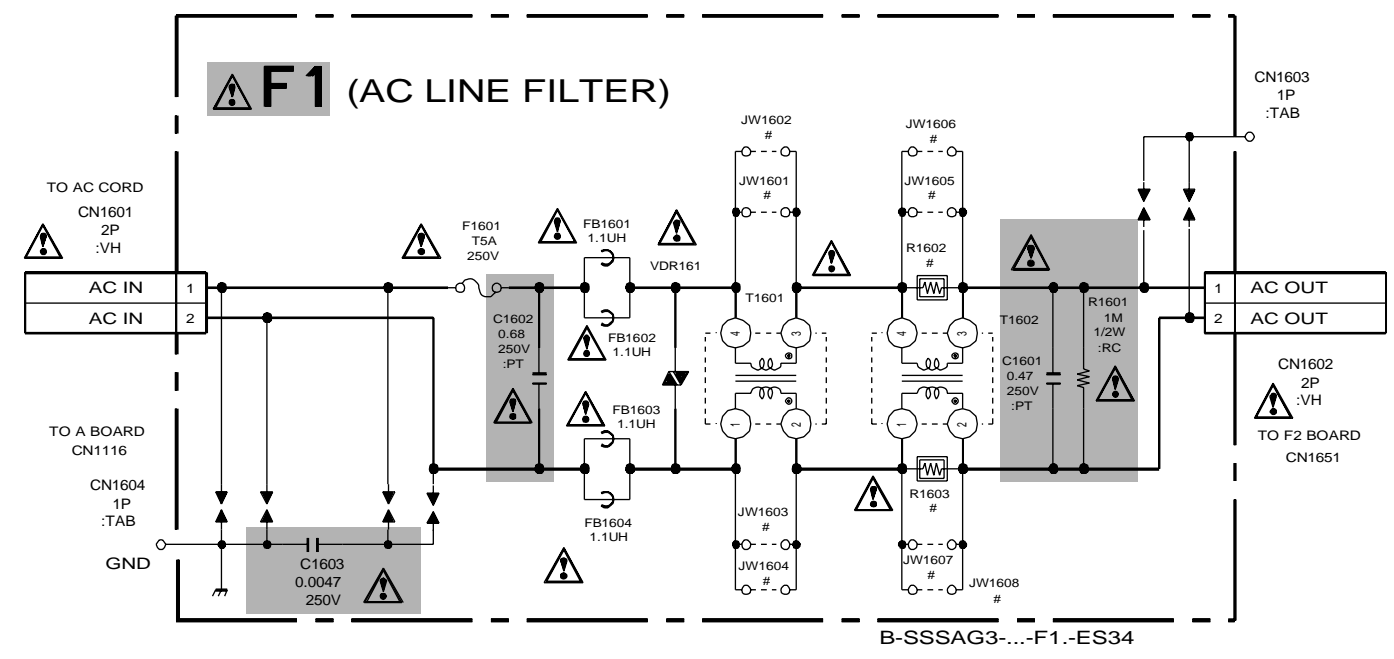
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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C (CRT DRIVE)

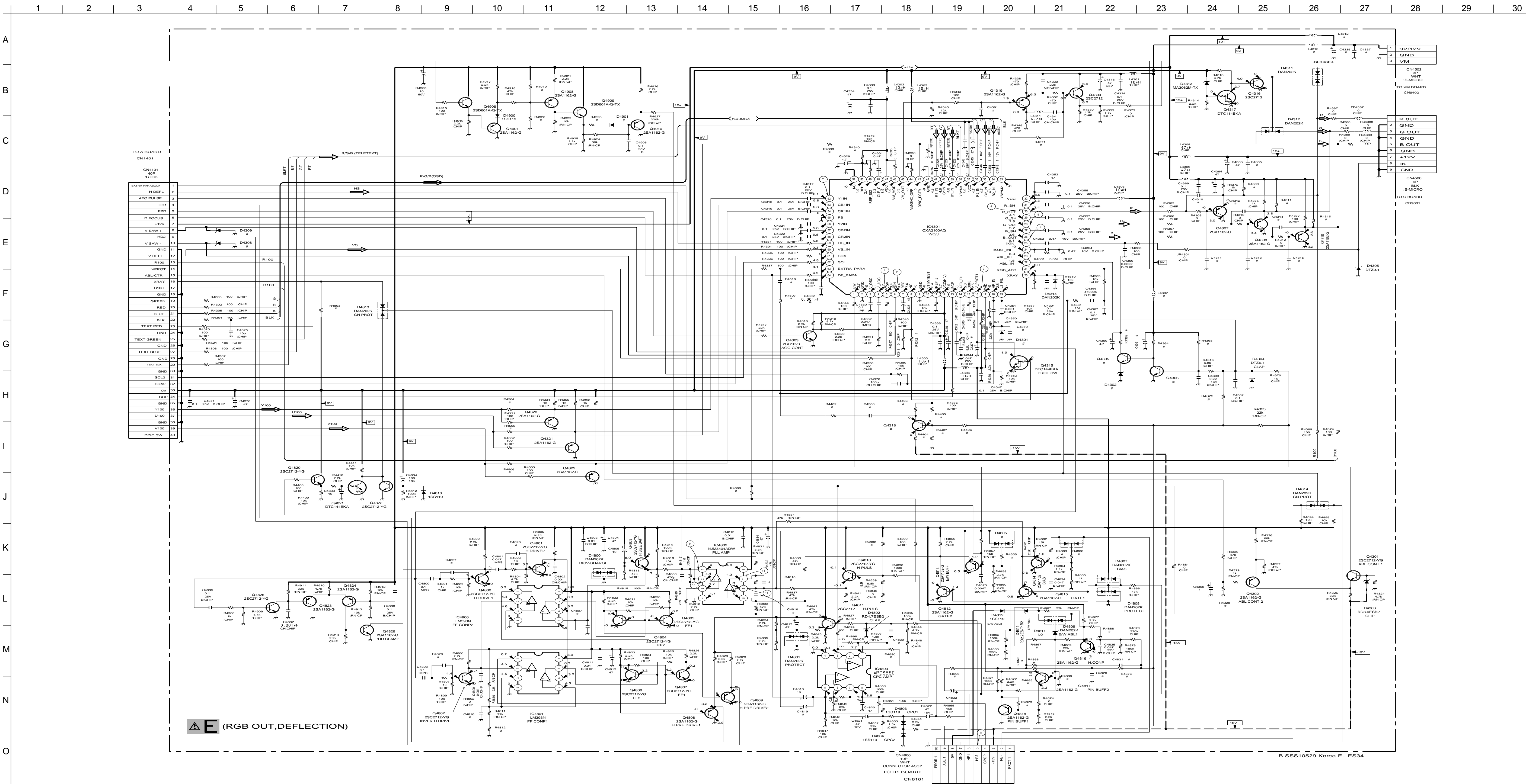
B-SSS10529-Korea-C.-ES34



VM (VM DRIVE)

B-SSSAG3...-VM.-ES34

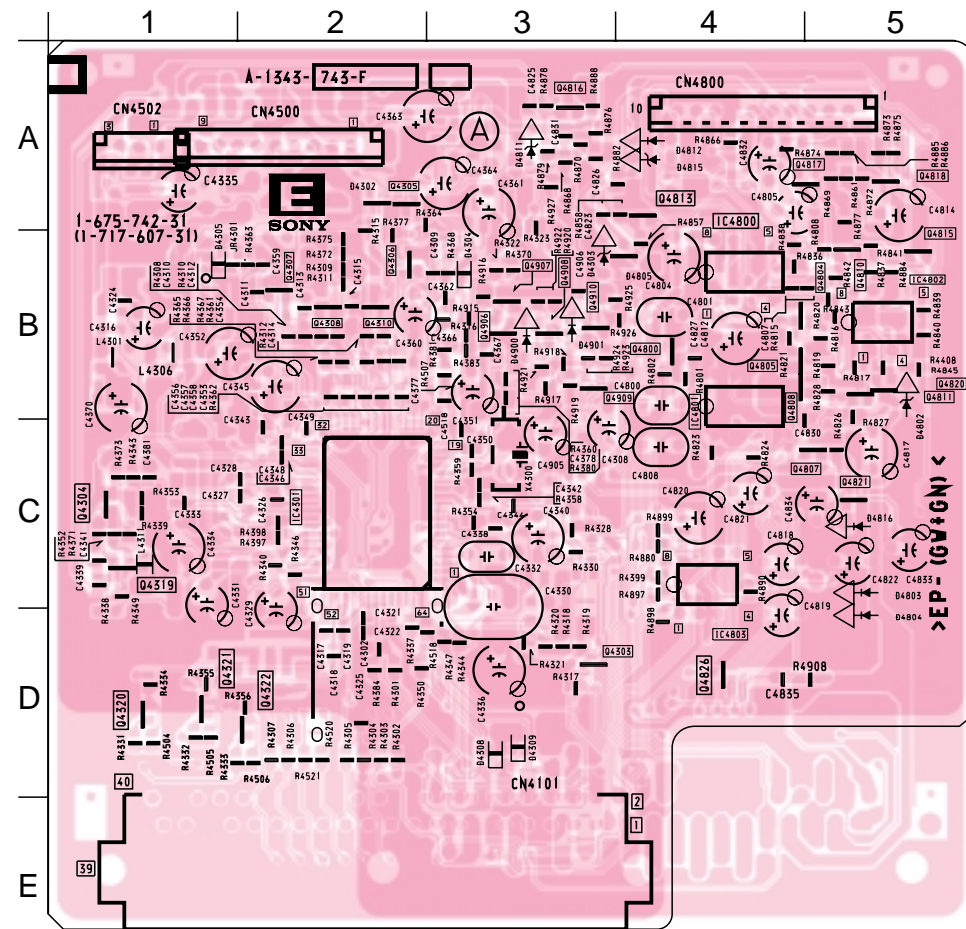
(5) Schematic Diagram of E Board



PRINTED WIRING BOARDS

E [RGB OUT, DEFLECTION]

- E Board (Component Side)



- Pattern from the side which enables seeing.
- Pattern from the rear side.

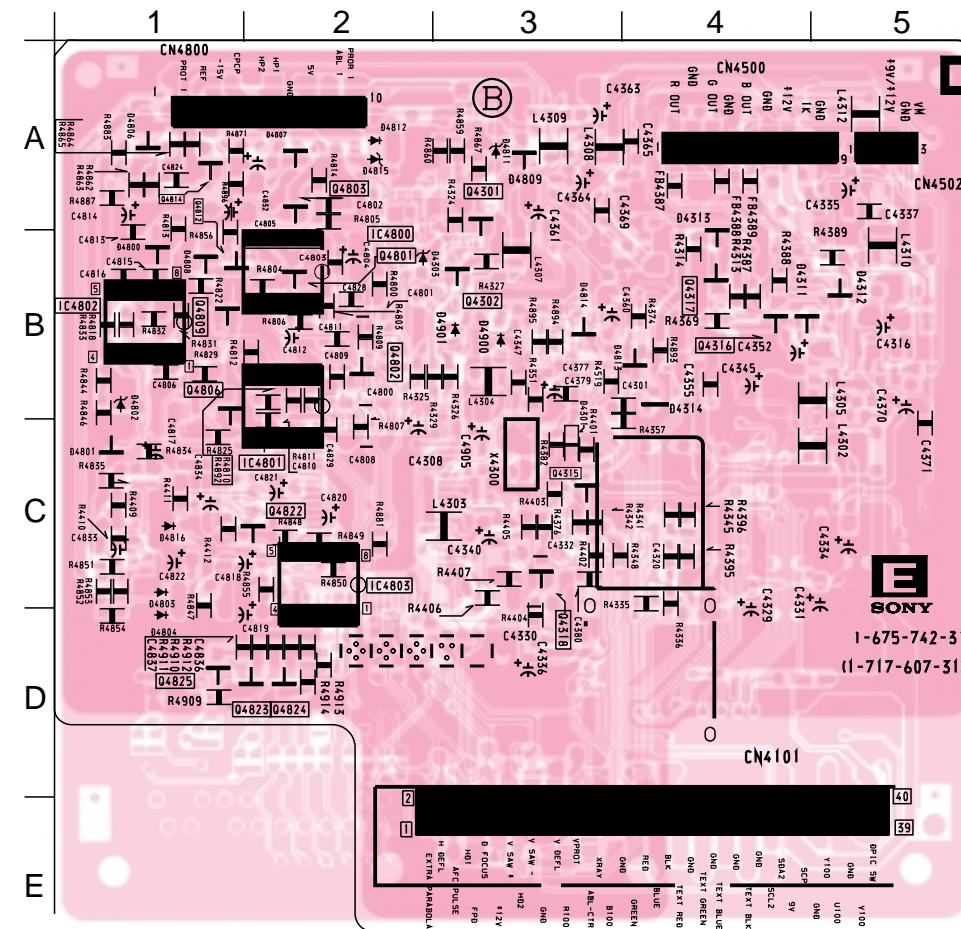
E BOARD (Component Side)

IC	Q4320 D-1	DIODE		
IC4301 C-2	Q4321 D-1	D4302 A-2		
IC4800 A-4	Q4322 D-2	D4303 B-3		
IC4801 C-4	Q4804 B-5	D4304 B-3		
IC4802 B-5	Q4805 B-4	D4305 B-12		
IC4803 D-4	Q4806 B-2	D4308 D-3		
TRANSISTOR	Q4807 C-5	D4309 D-3		
	Q4808 B-4	D4802 B-5		
Q4303 D-4	Q4810 B-5	D4805 B-4		
Q4304 C-1	Q4811 B-5	D4806 C-5		
Q4305 A-2	Q4813 A-4	D4811 A-3		
Q4307 B-2	Q4815 B-5	D4812 A-4		
Q4308 B-2	Q4816 A-3	D4815 A-4		
Q4310 B-2	Q4817 A-5			
Q4319 C-1	Q4818 A-5			

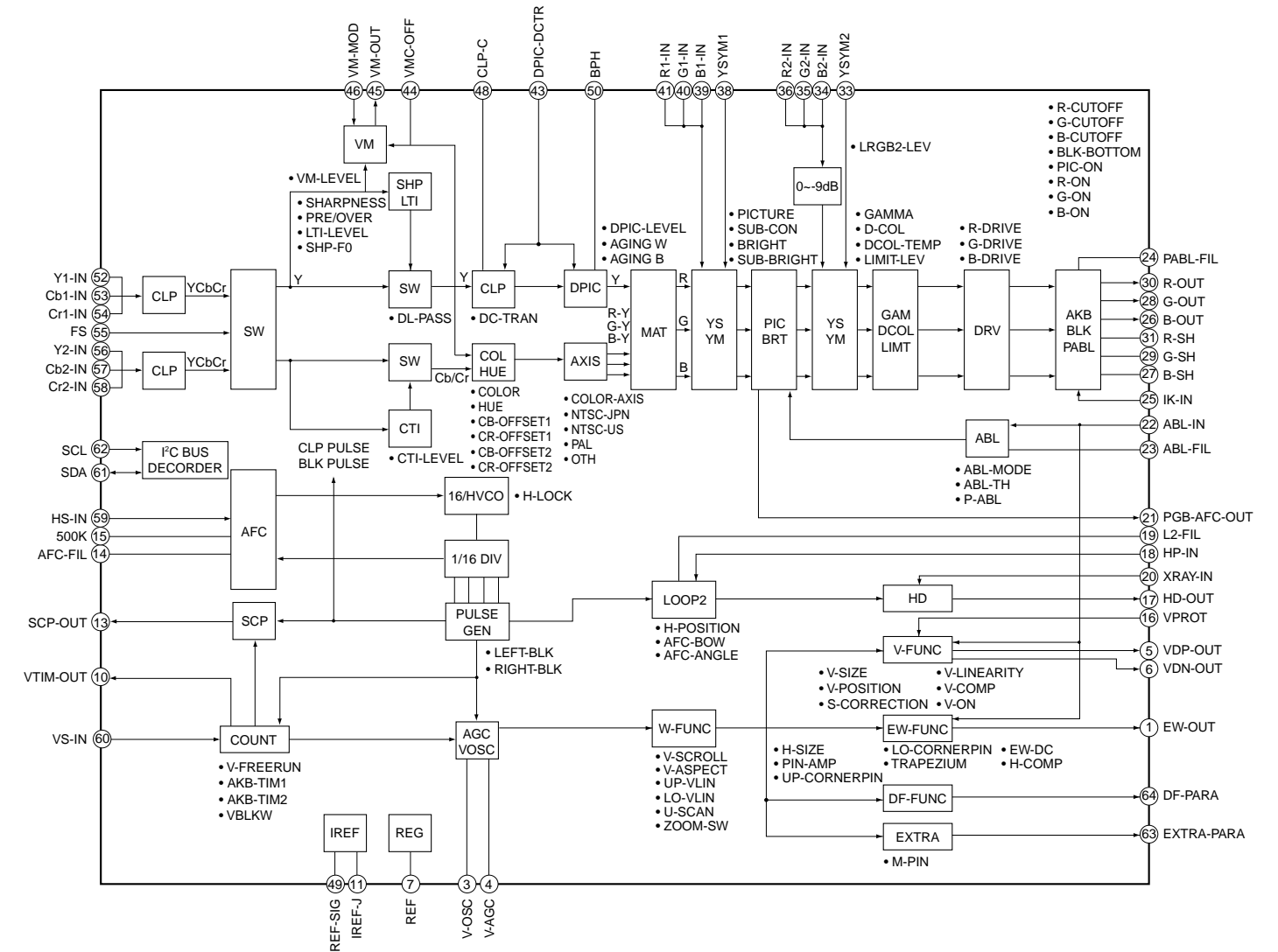
E BOARD (Conductor Side)

IC	Q4806 B-12	D4806 A-1
IC4800 B-2	Q4809 B-1	D4807 A-2
IC4801 C-2	Q4812 A-1	D4808 B-1
IC4802 B-1	Q4814 A-1	D4809 A-3
IC4803 C-2	DIODE	D4811 A-3
TRANSISTOR	D4301 C-3	D4812 A-2
	D4303 B-3	D4813 B-4
Q4301 A-3	D4311 B-5	D4814 B-3
Q4302 B-3	D4312 B-5	D4815 A-2
Q4315 C-3	D4313 A-4	D4819 C-3
Q4316 B-4	D4800 B-1	
Q4317 B-4	D4801 C-1	
Q4318 D-3	D4802 B-1	
Q4801 B-2	D4803 C-1	
Q4802 B-2	D4804 C-1	

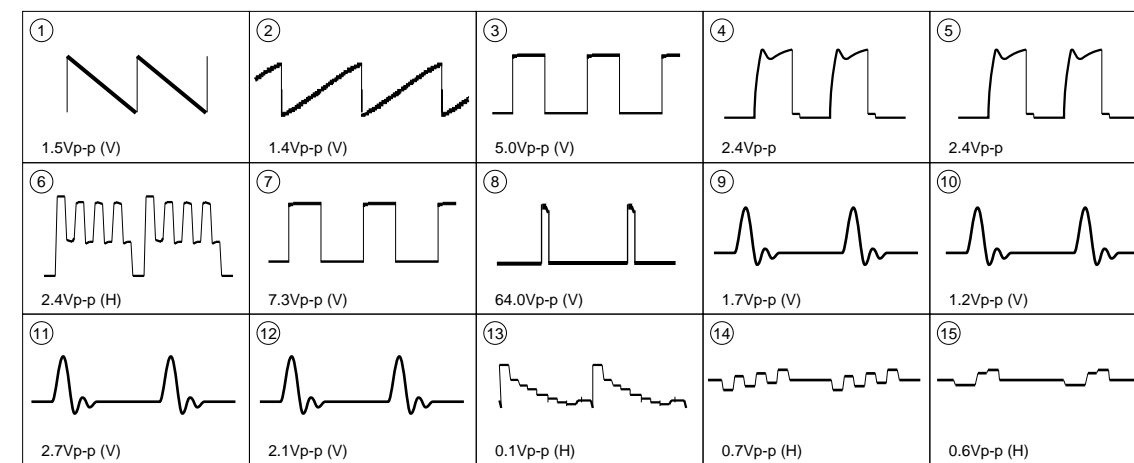
- E Board (Conductor Side) -



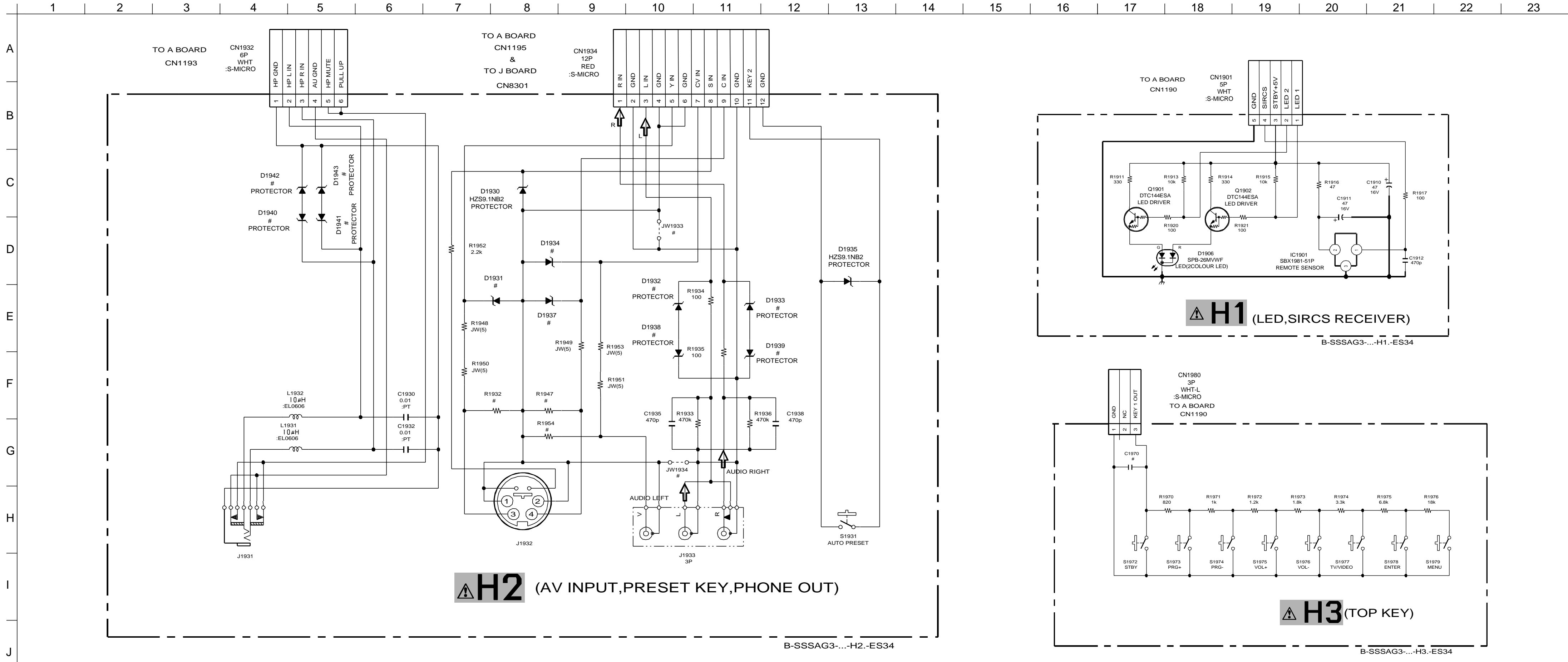
E Board IC4301 CXA2100AQ



E BOARD WAVEFORMS



(6) Schematic Diagrams of H1, H2 and H3 Boards



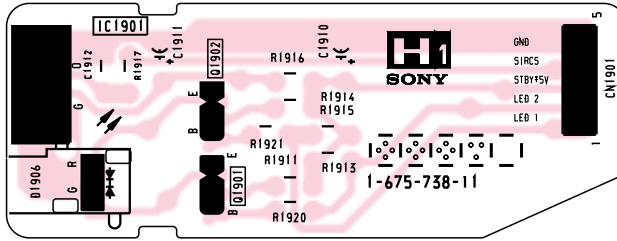
PRINTED WIRING BOARDS

H1 [LED, SIRCS RECEIVER]

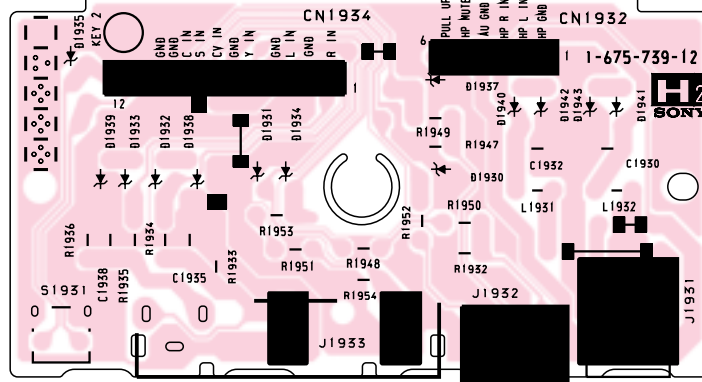
H2 [AV INPUT, PRESET KEY, PHONE OUT]

H3 [TOP KEY]

- H1 Board -



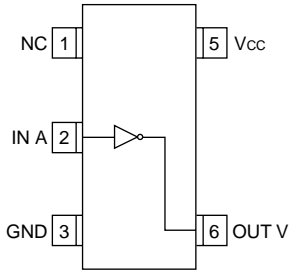
- H2 Board -



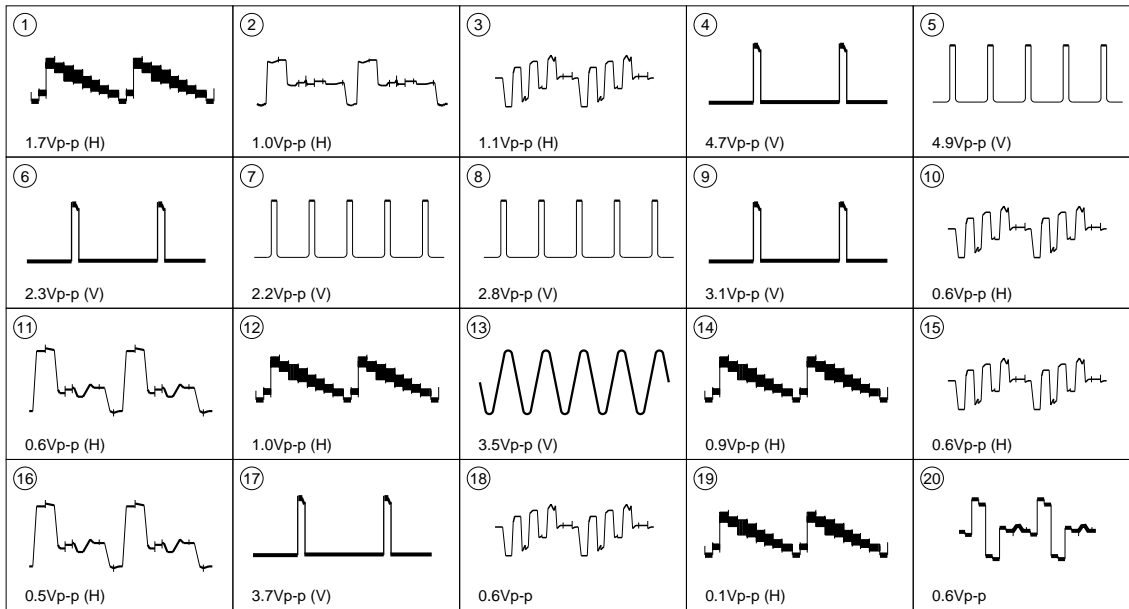
- H3 Board -



B3 BOARD IC309, IC505 and IC506 TC7SET04F (TE85R)



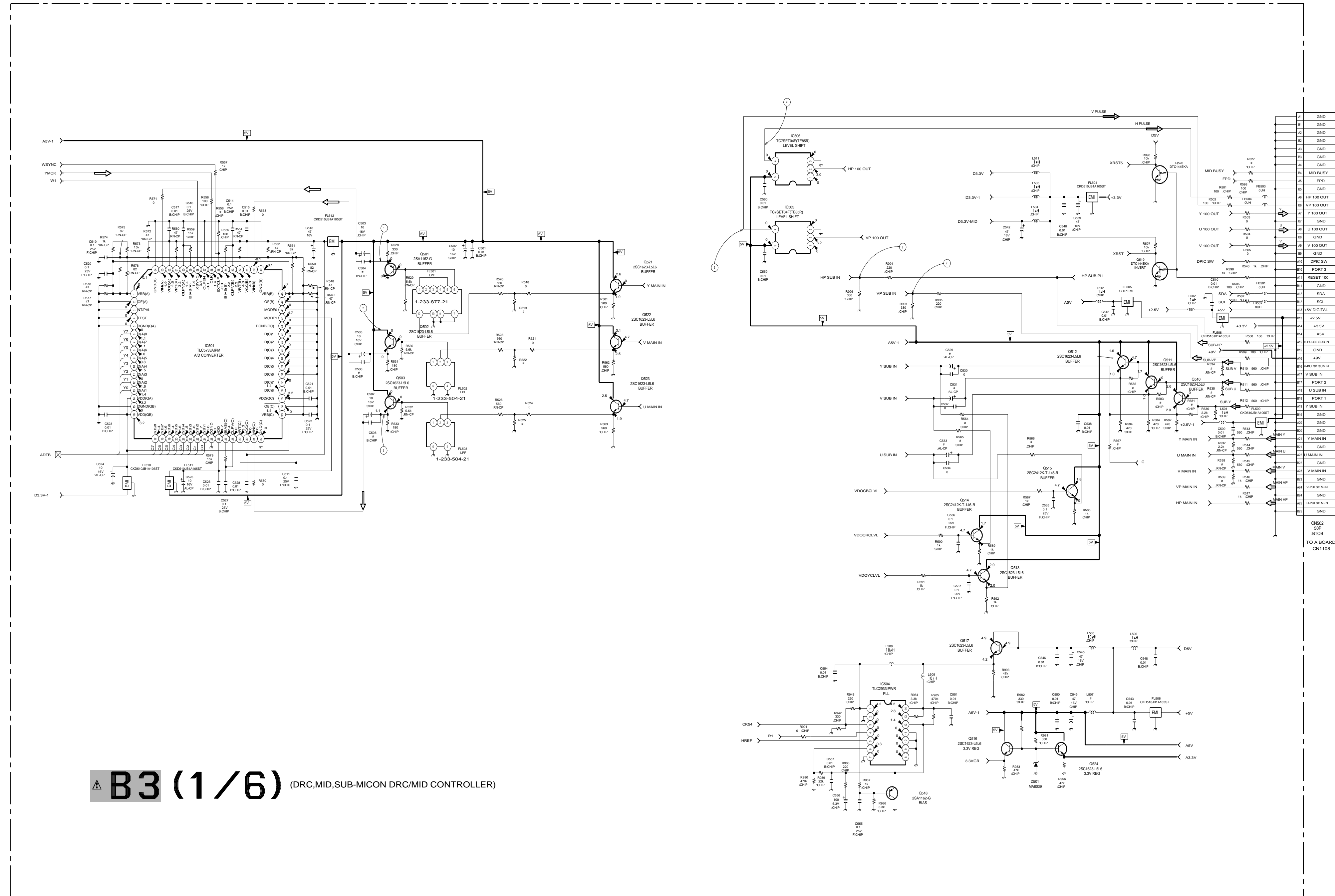
B3 BOARD WAVEFORMS



(7) Schematic Diagram of B3 (1/6) Board

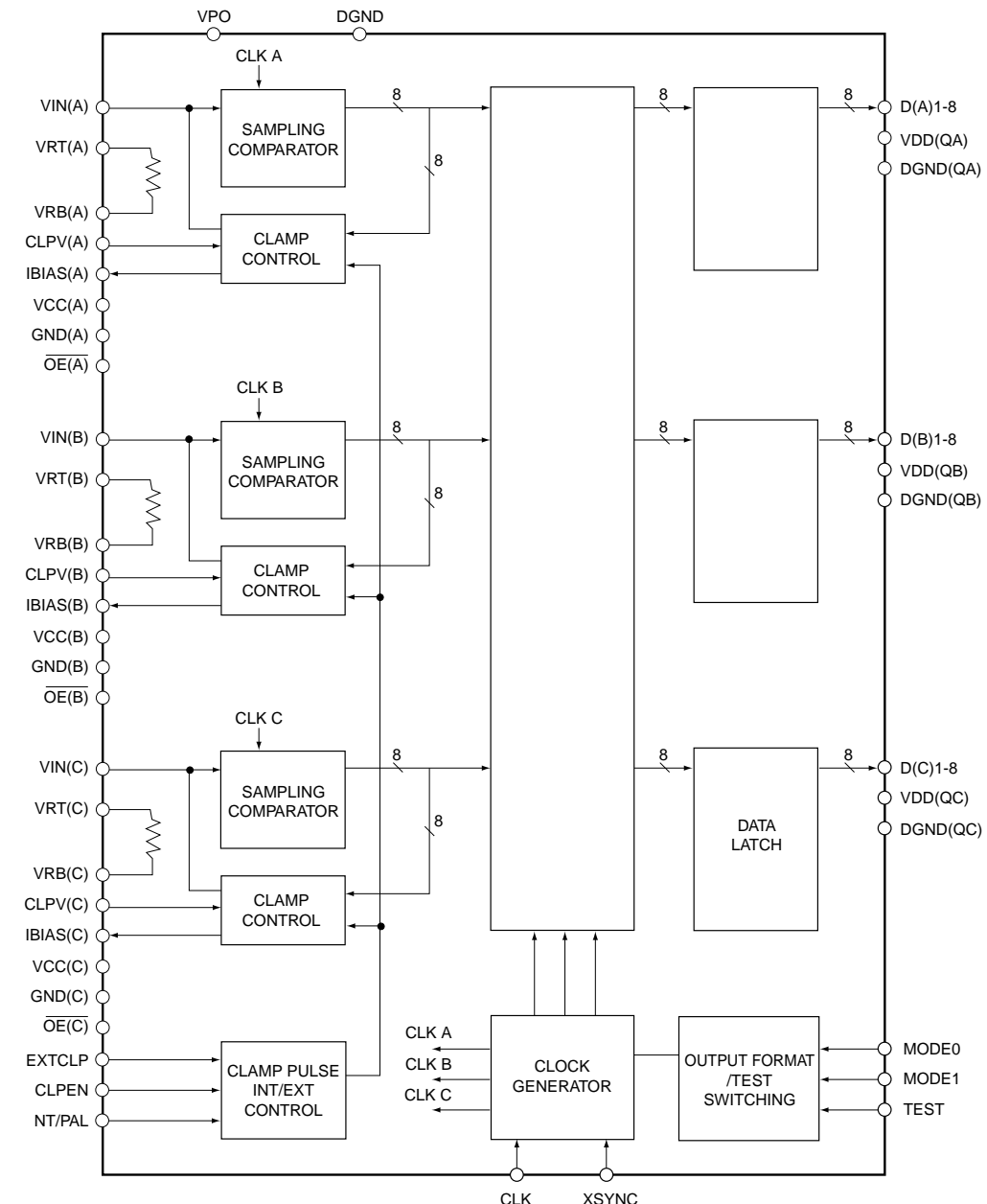
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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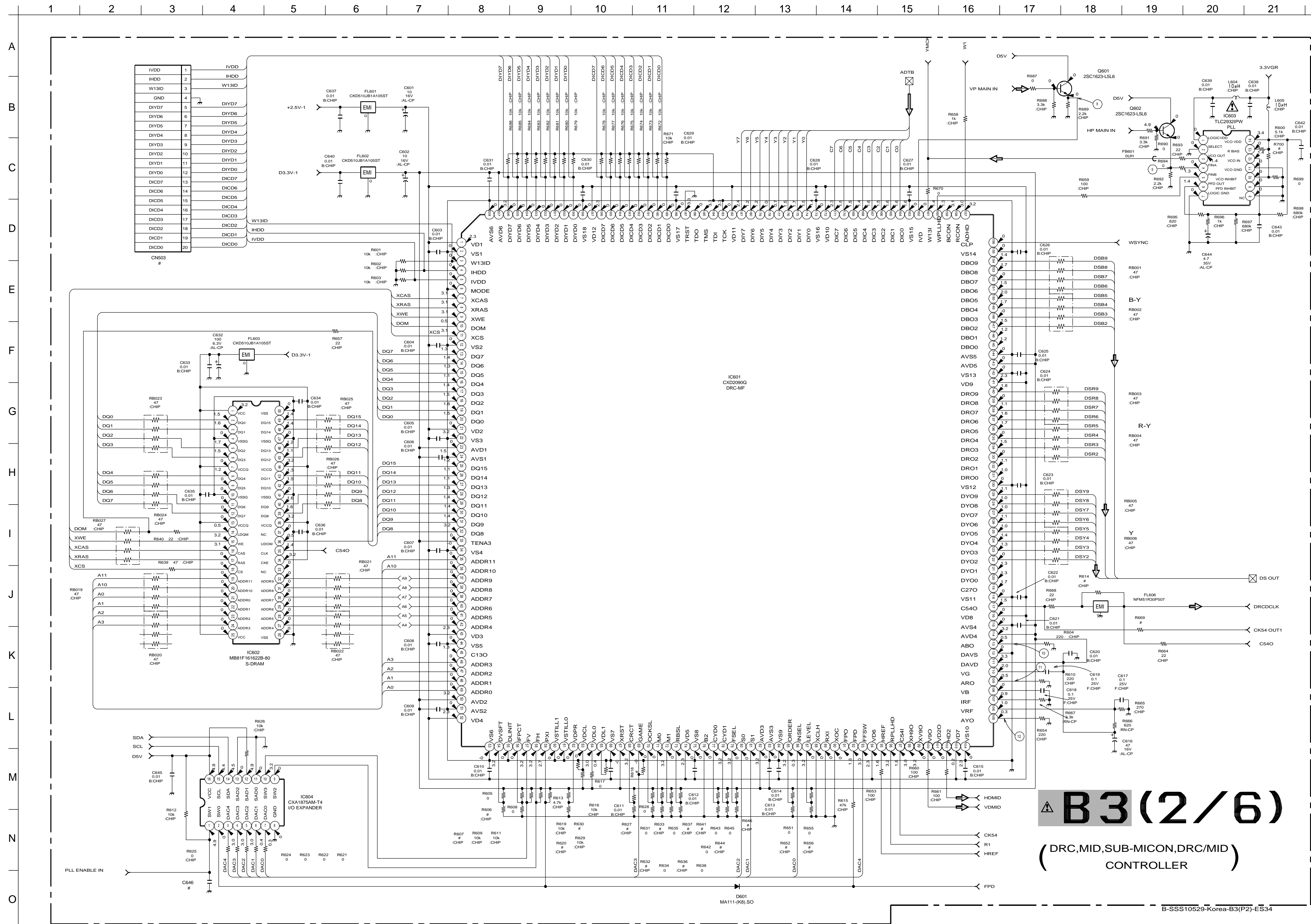


B3 (1/6) (DRC,MID,SUB-MICON DRC/MID CONTROLLER)

B3 BOARD IC501 TLC5733A1PM



(8) Schematic Diagram of B3 (2/6) Board



B3 (2/6)

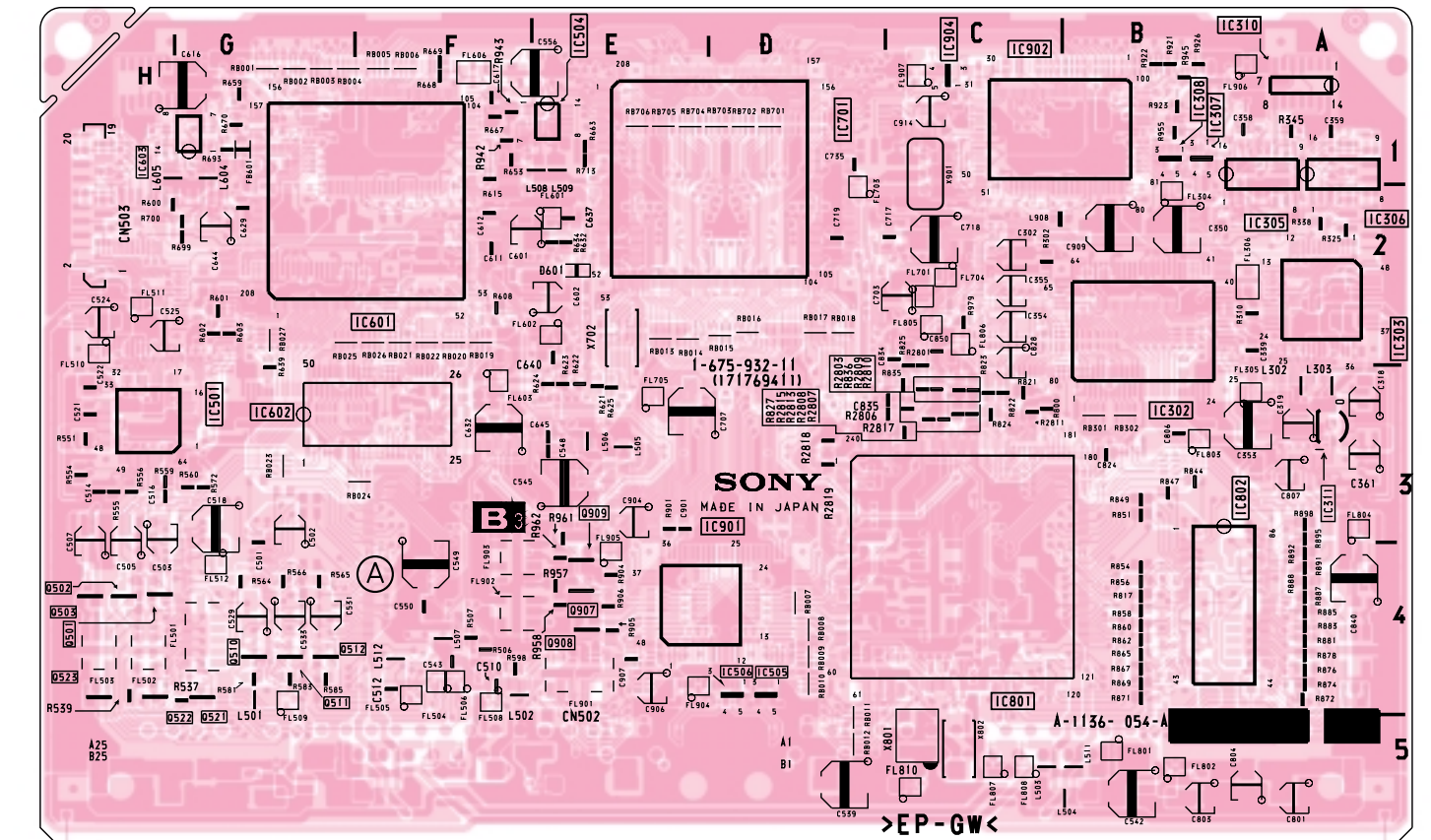
(DRC, MID, SUB-MICON, DRC/MID CONTROLLER)

B-SSS10529-Korea-B3(P2)-ES34

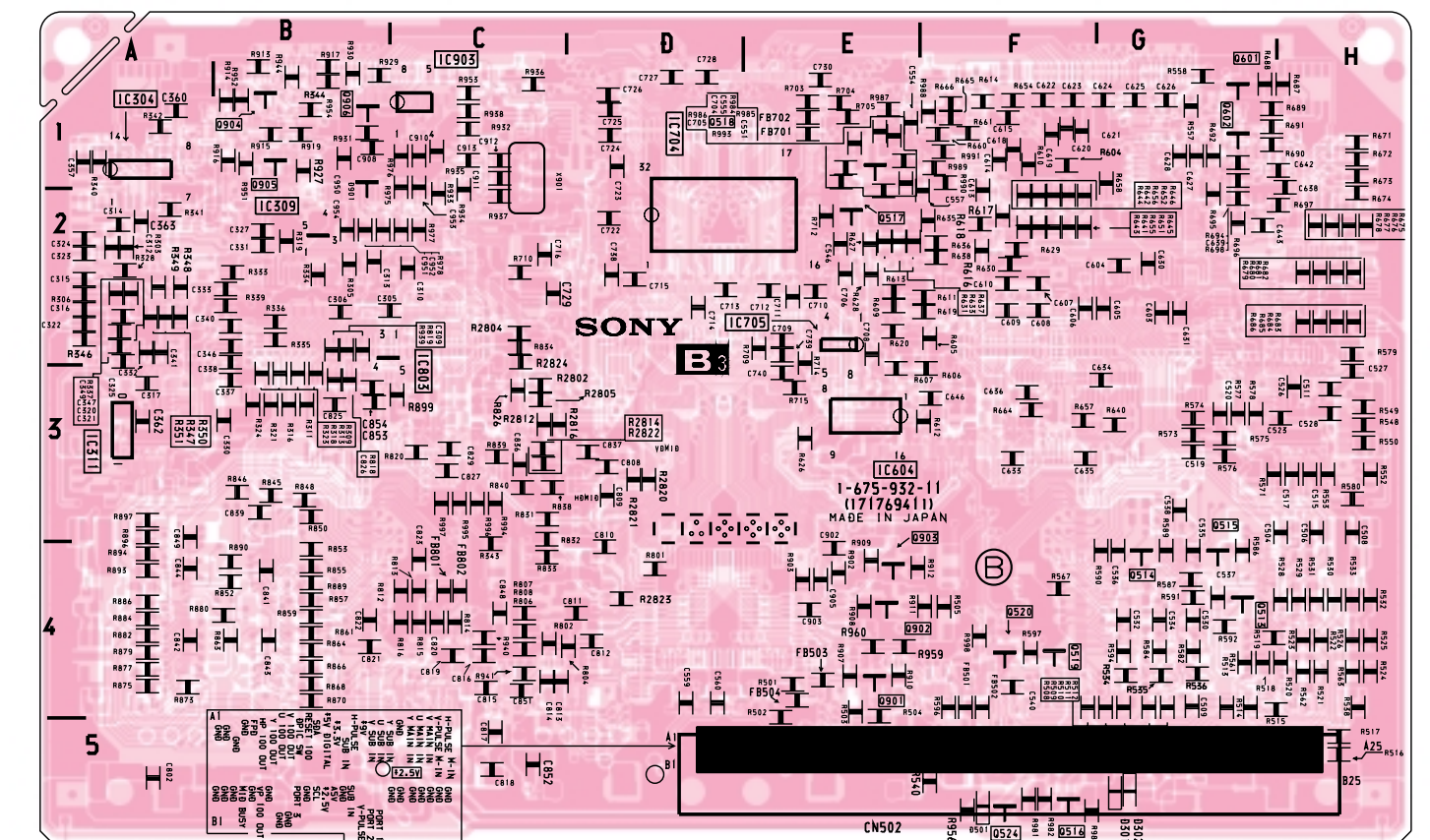
PRINTED WIRING BOARDS

B3 [DRC, MID, SUB MICON, DRC/MID CONTROLLER]

- B3 Board (Component Side) -



- B3 Board (Conductor Side) -



- : Pattern from the side which enables seeing.
- : Pattern from the rear side.

B3 BOARD (Conductor Side)

IC	Q519	D-6
IC304	A-1	Q520
IC309	B-2	Q524
IC311	C-1	Q602
IC604	C-5	Q901
IC704	A-4	Q902
IC705	B-4	Q903
IC803	C-3	Q904
IC903	A-3	Q905
TRANSISTOR	Q906	A-2
Q513	D-7	
Q514	D-7	D301
Q515	C-7	D302
Q516	E-6	D901
Q517	B-5	
Q518	A-4	

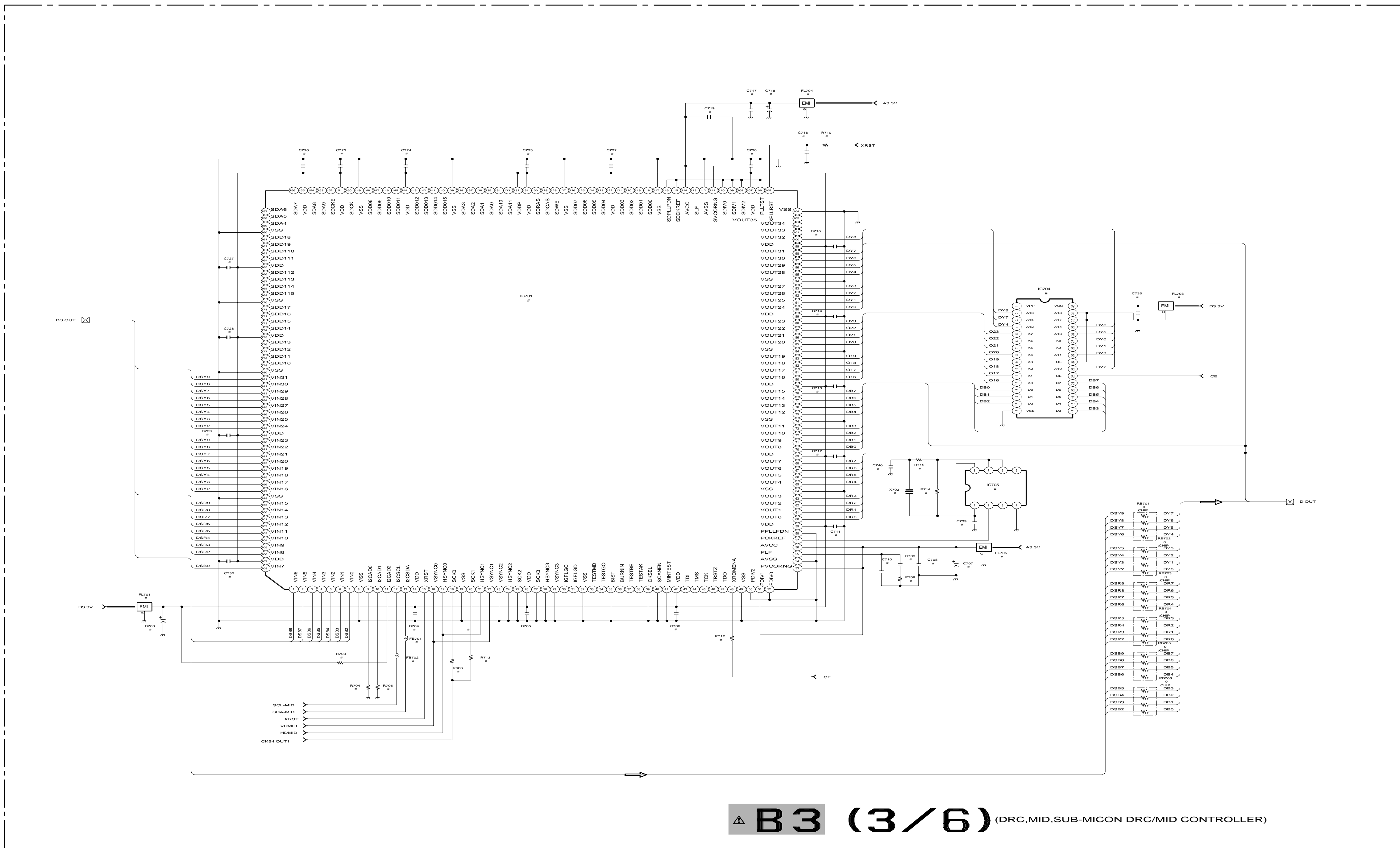
B3 BOARD (Component Side)

IC	TRANSISTOR
IC302	C-7
IC303	B-8
IC305	B-7
IC306	B-8
IC307	A-7
IC308	A-7
IC310	A-7
IC311	C-8
IC501	C-1
IC504	A-4
IC505	D-5
IC506	D-4
IC601	I-8
IC602	H-6
IC603	D-8
IC701	A-5
IC801	E-6
IC802	C-7
IC901	I-3
IC902	A-6
IC904	A-6
Q501	D-6
Q502	E-7
Q503	F-6
Q510	D-2
Q511	F-1
Q512	D-2
Q521	E-2
Q522	E-1
Q523	D-1
Q907	D-4
Q908	D-3
Q909	C-4
DIODE	
D601	I-8

(9) Schematic Diagram of B3 (3/6) Board

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

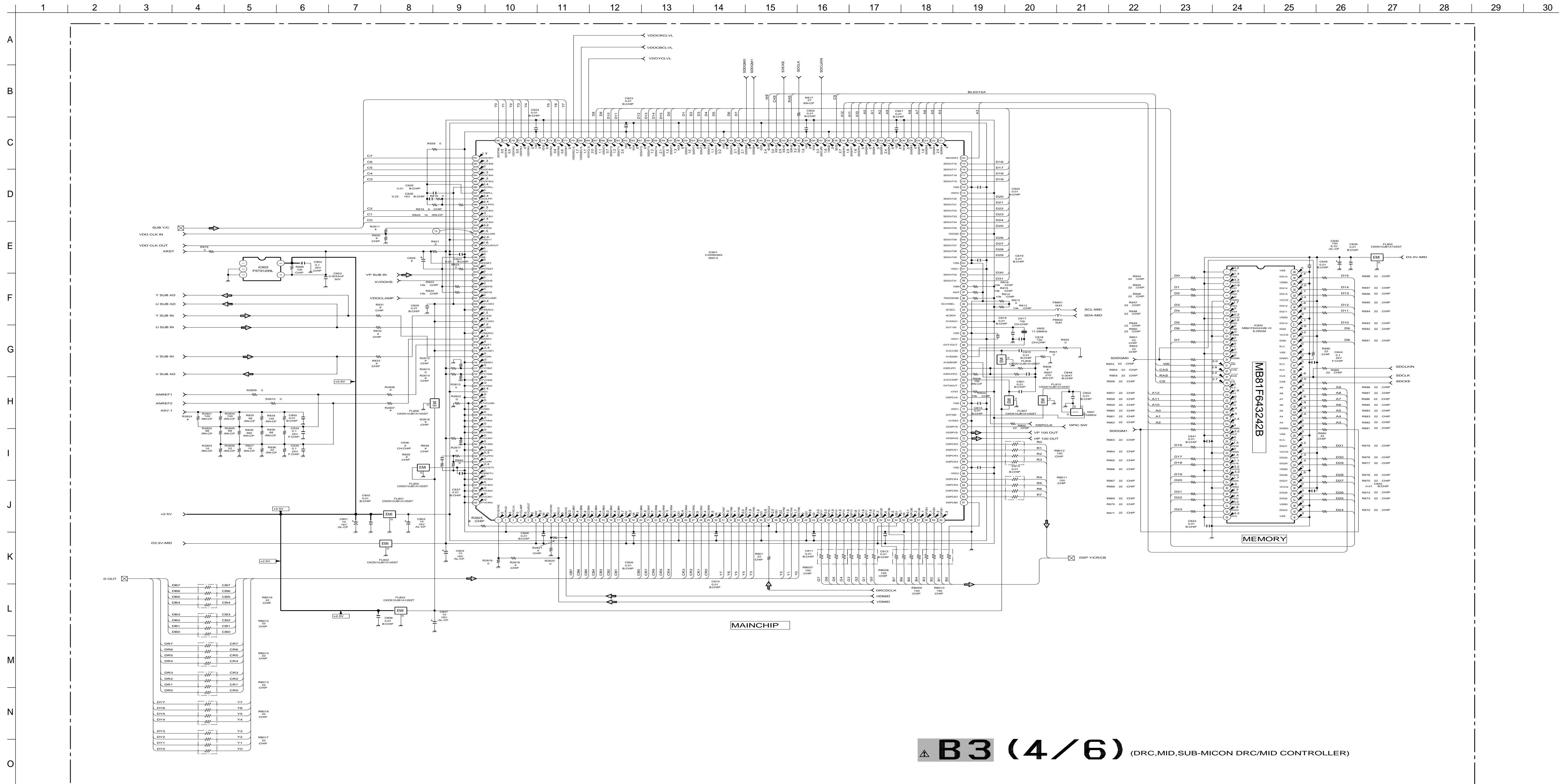
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B3 (3/6) (DRC,MID,SUB-MICON DRC/MID CONTROLLER)

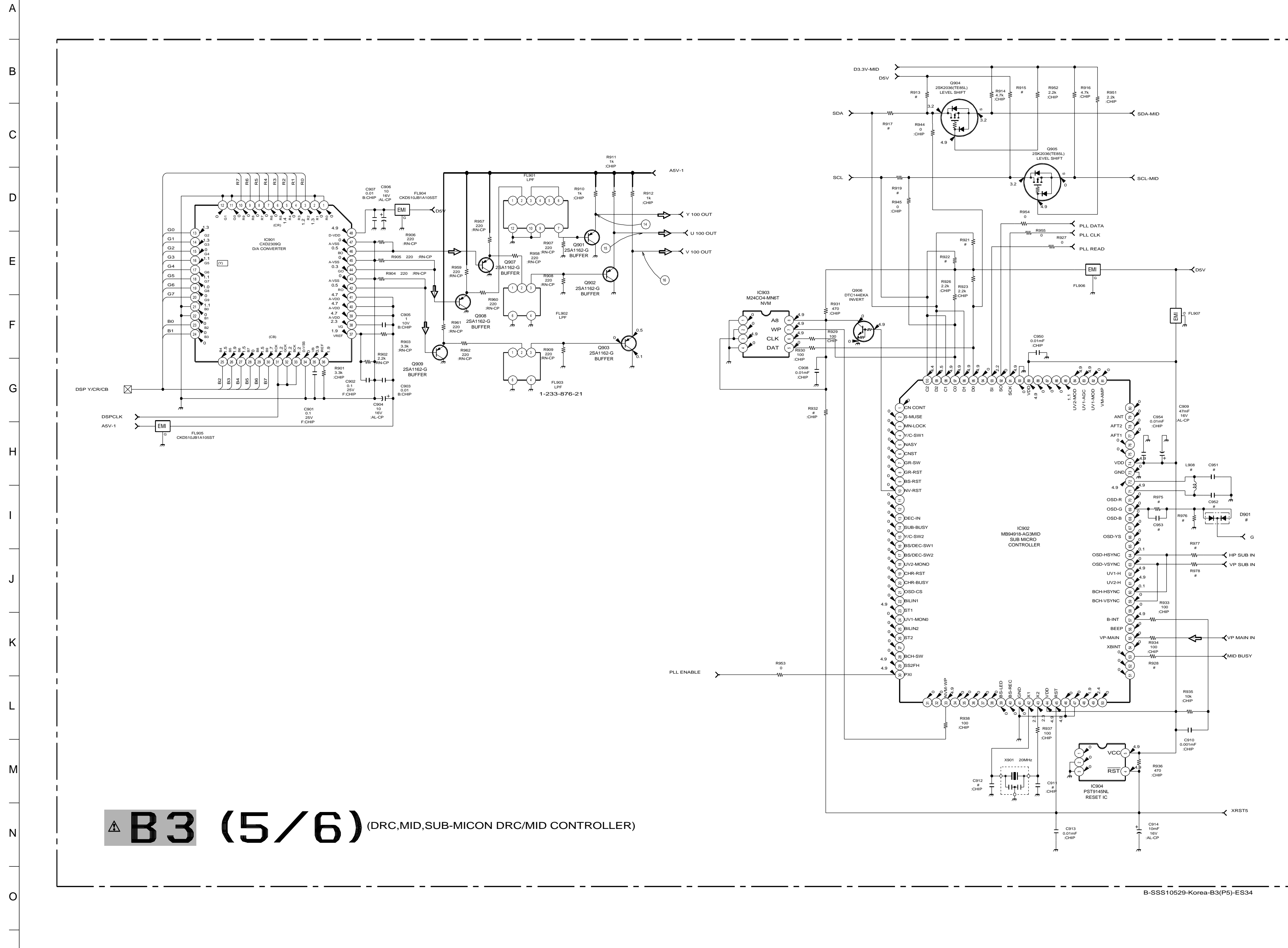
B-SSS10529-Korea-B3(P3)-ES34

(10) Schematic Diagram of B3 (4/6) Board



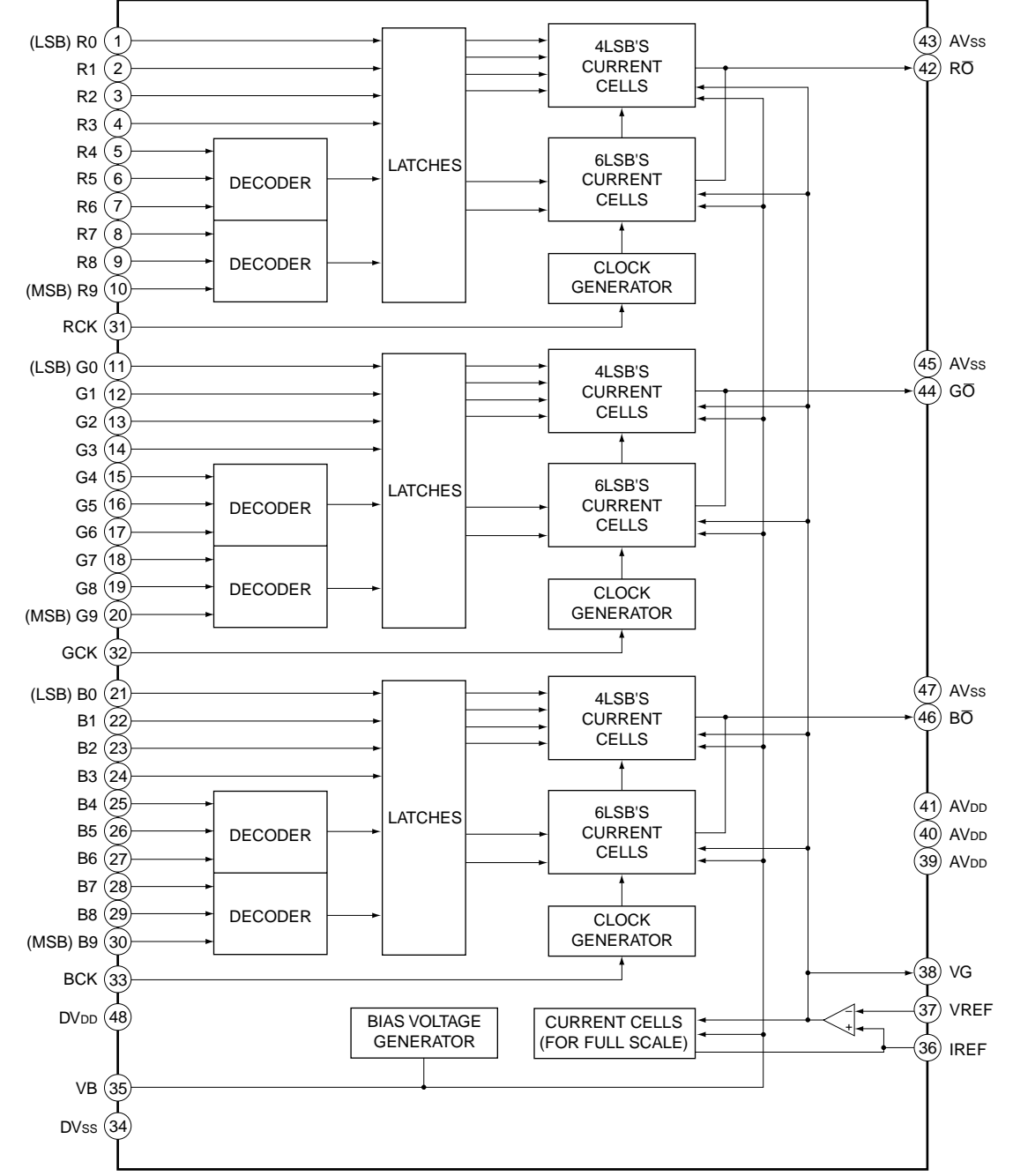
B3 (4/6) (DRC,MID,SUB-MICON DRC/MID CONTROLLER)

B-SSS10529-Korea-B3(P4)-ES34

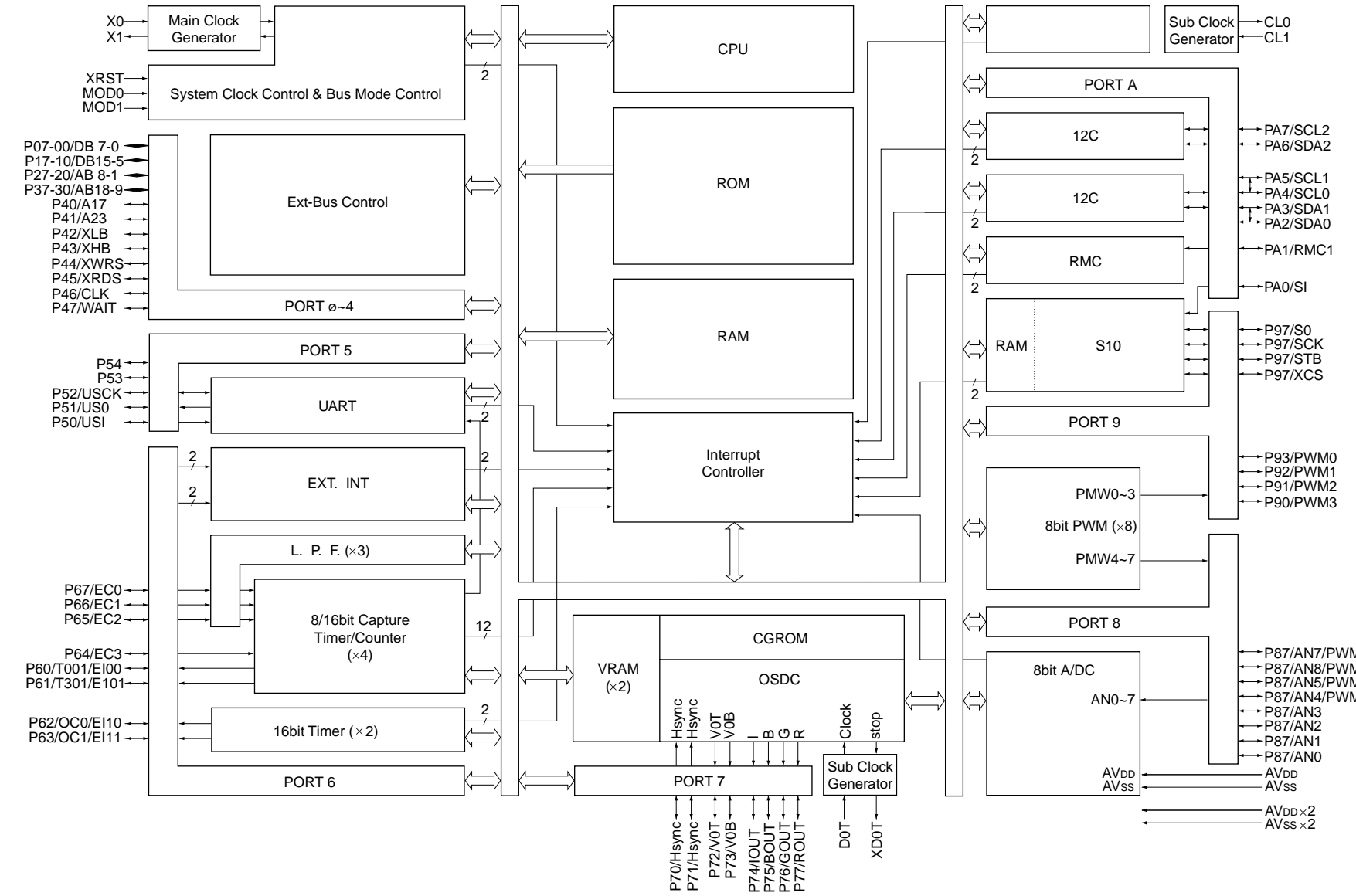


B3 (5/6) (DRC,MID,SUB-MICON DRC/MID CONTROLLER)

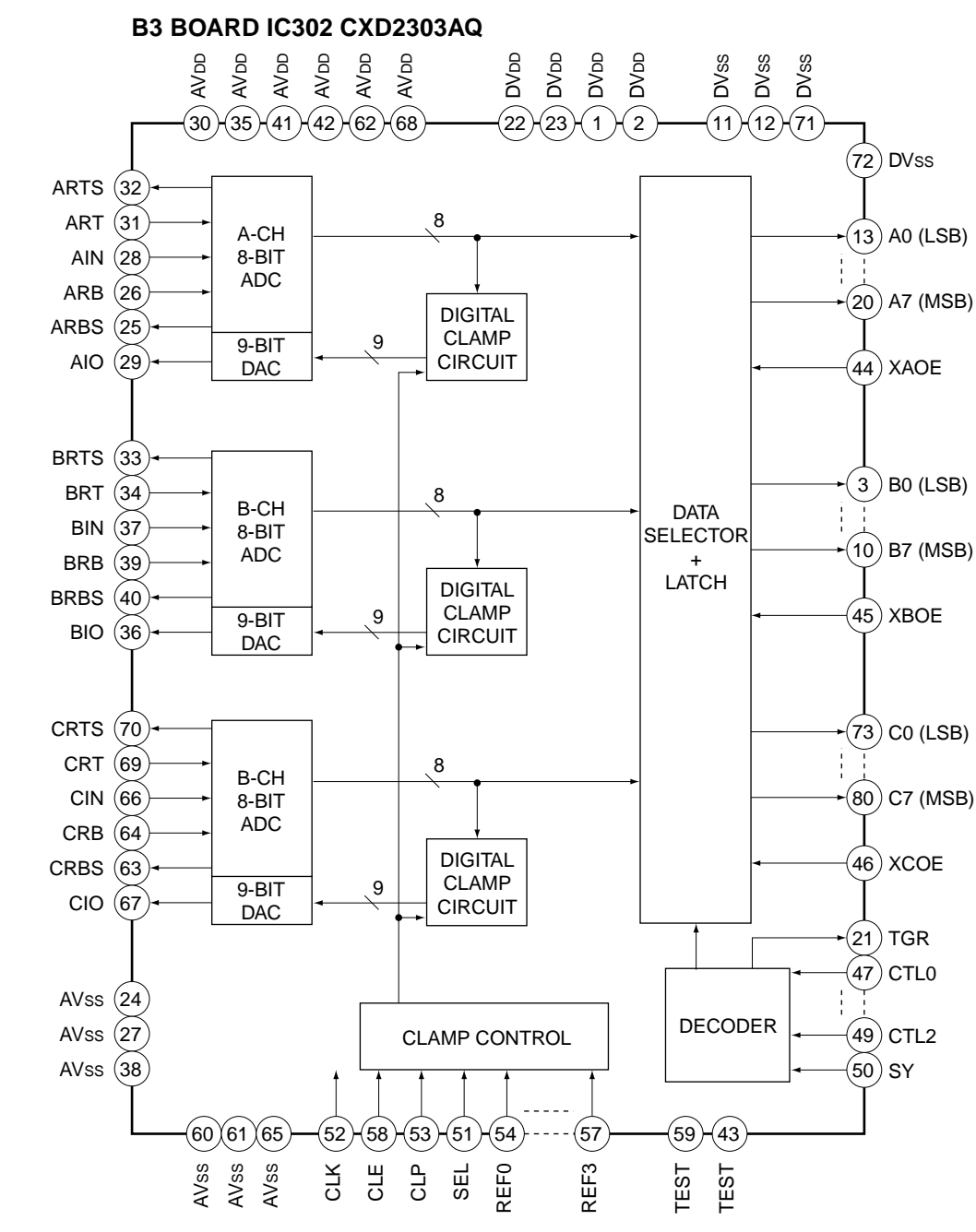
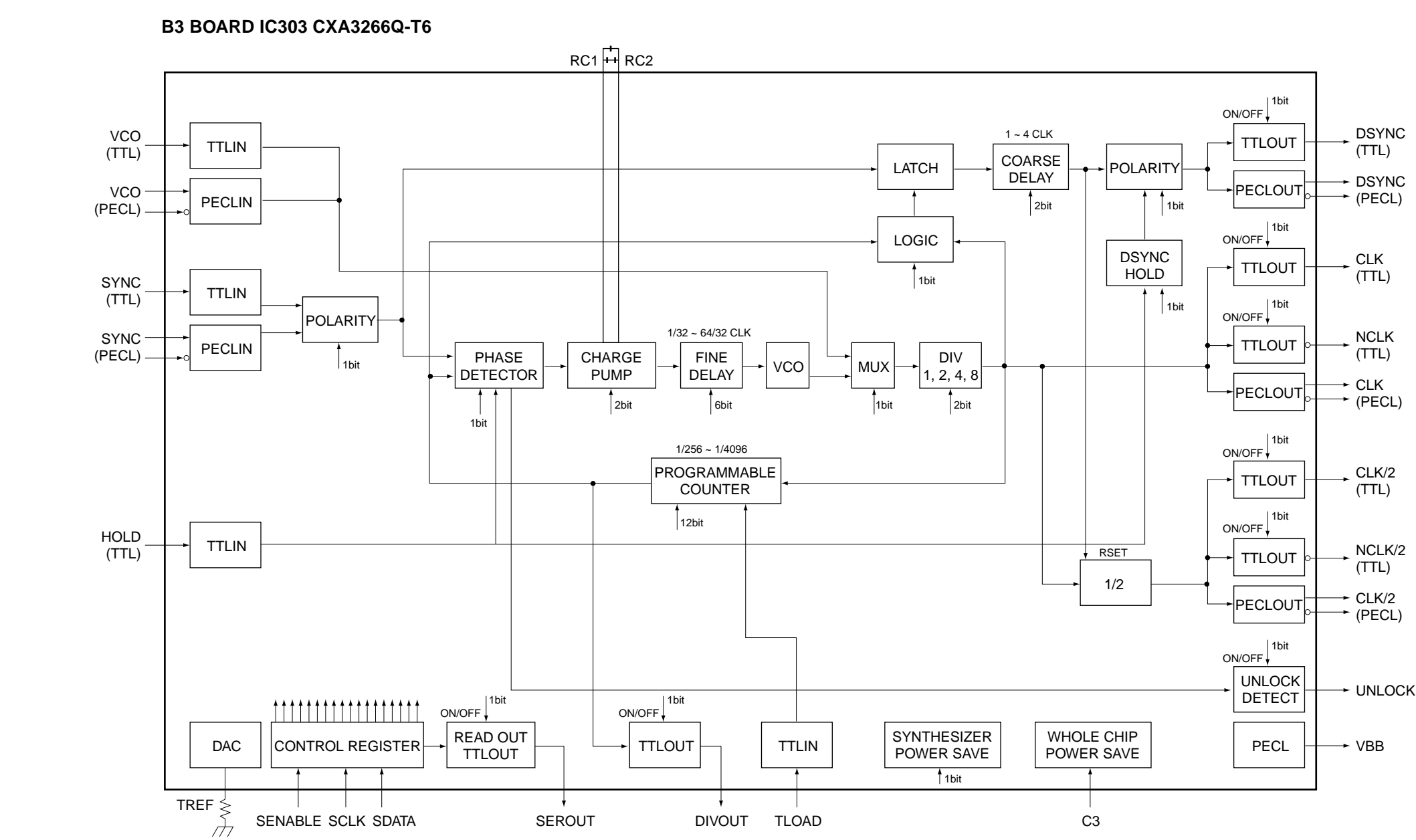
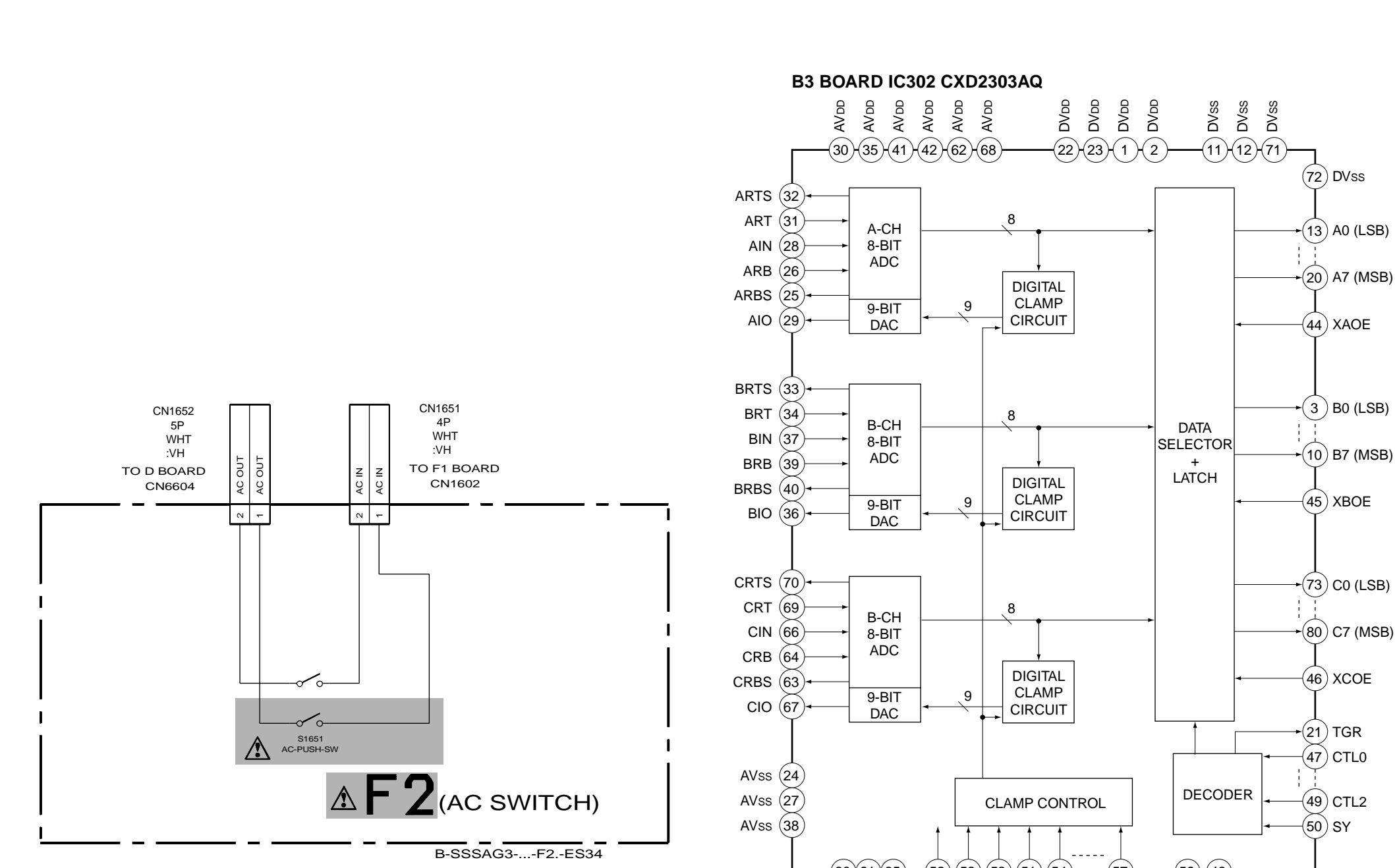
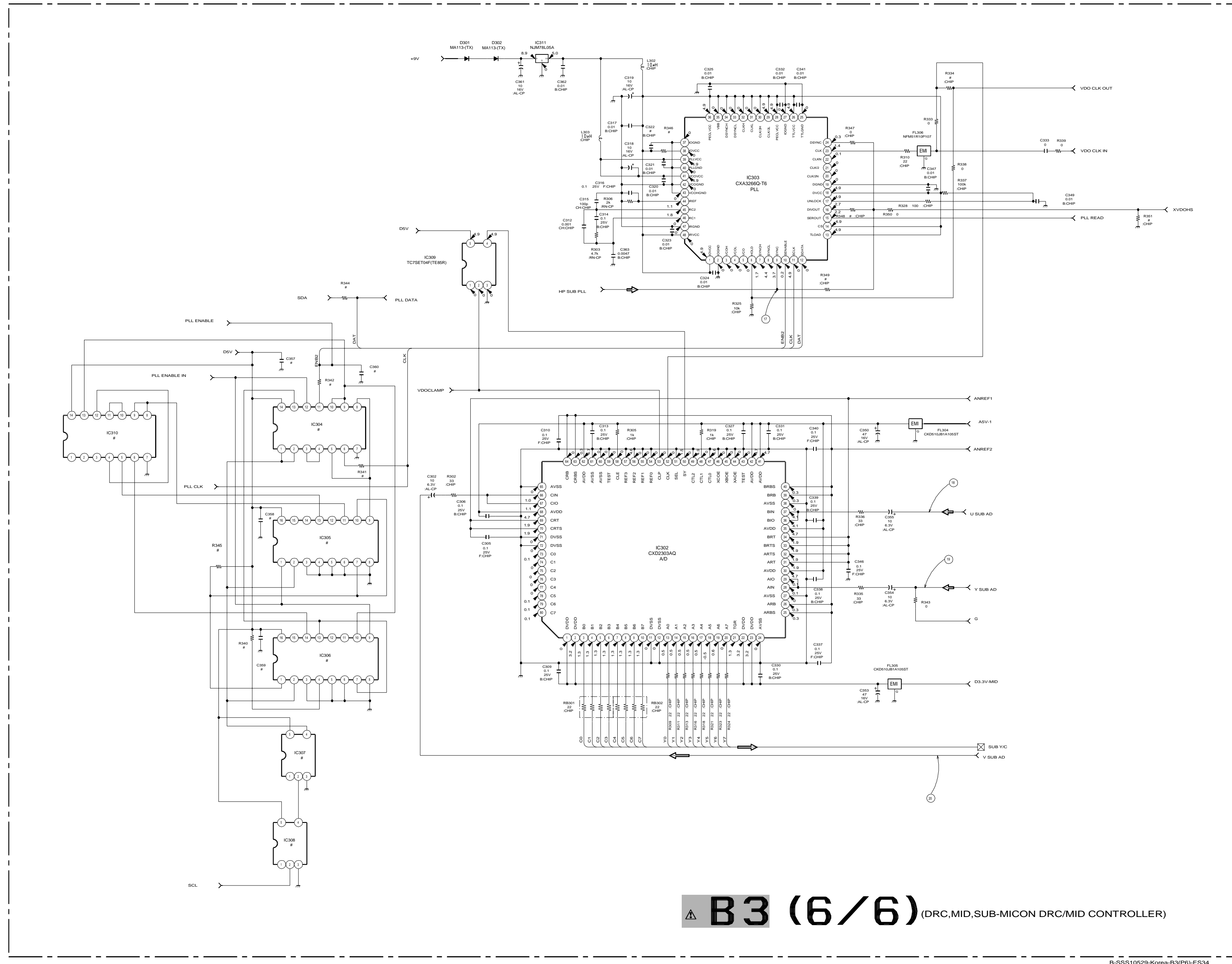
B3 BOARD IC901 CXD2309Q



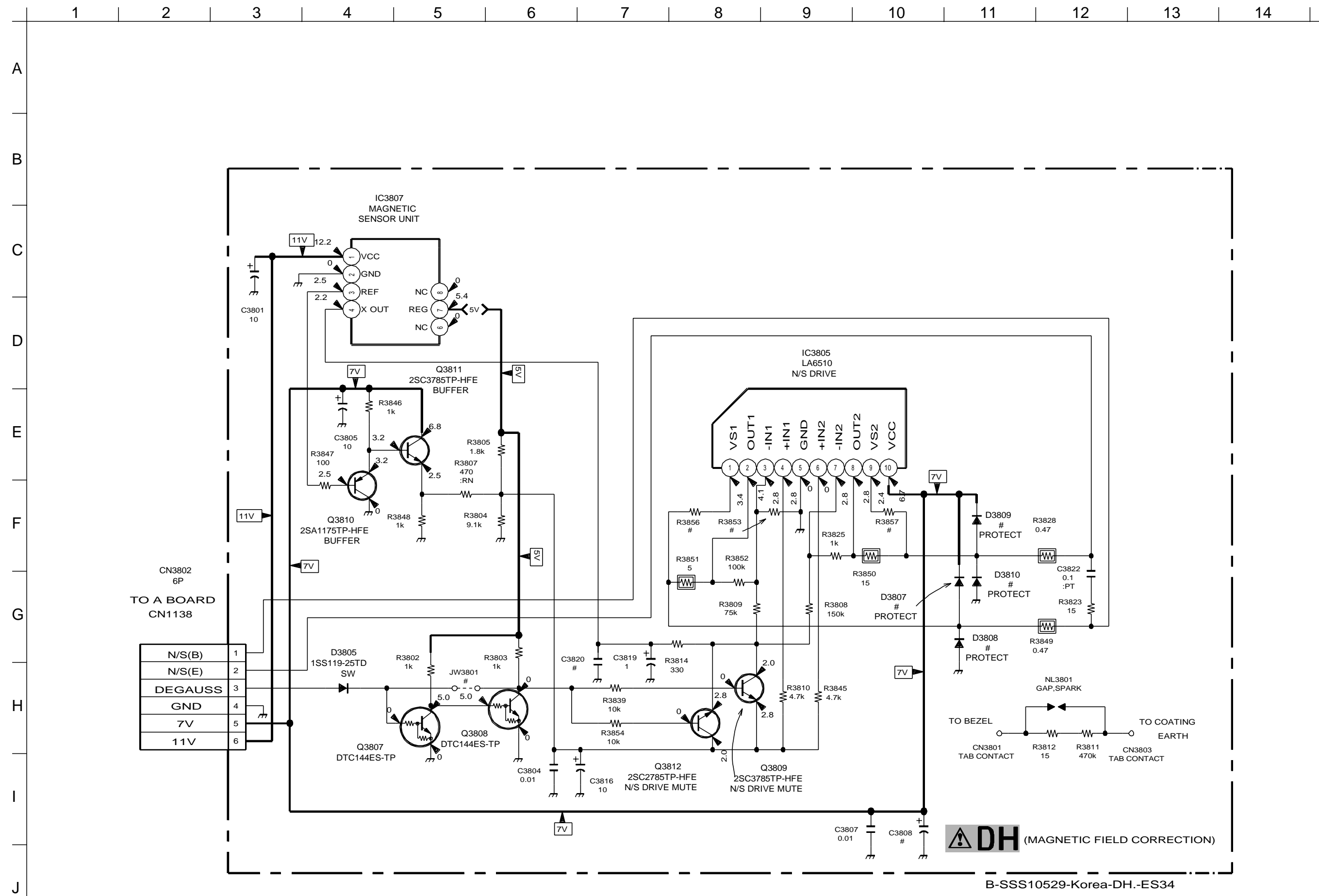
B3 BOARD IC902 MB94918-AG3M1D



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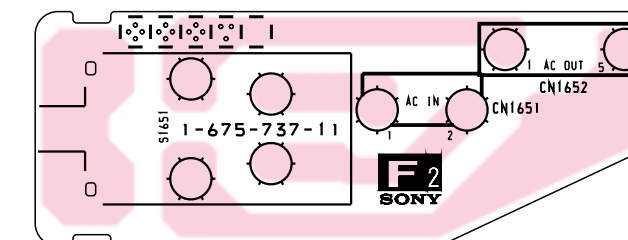
(13) Schematic Diagram of DH Board



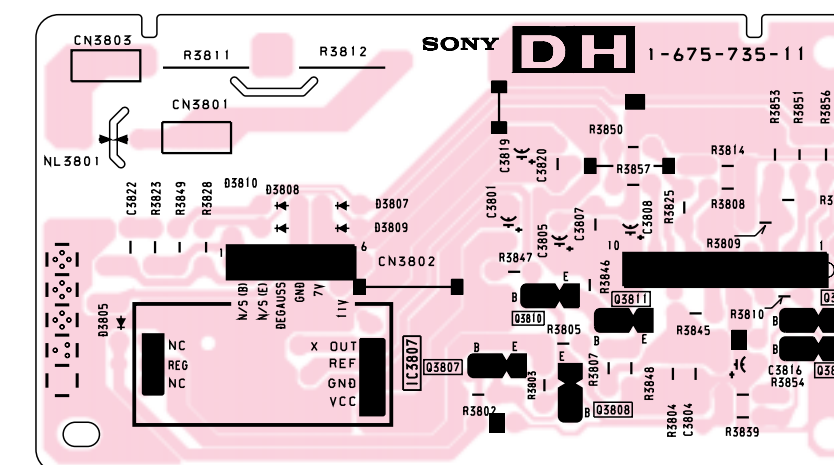
PRINTED WIRING BOARDS

F2 [AC SWITCH] **DH** [MAGNETIC FIELD CORRECTION]

- F2 Board -



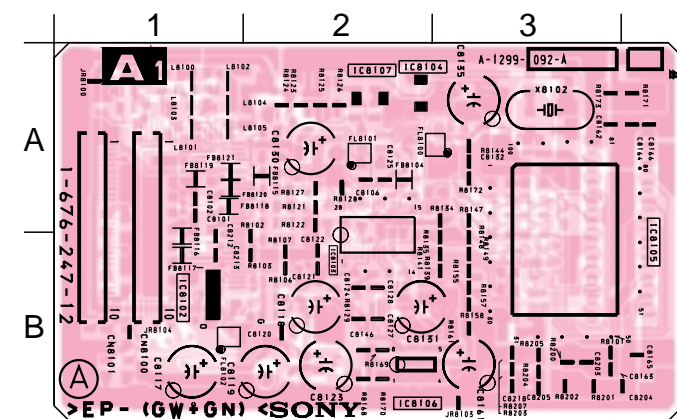
- DH Board -



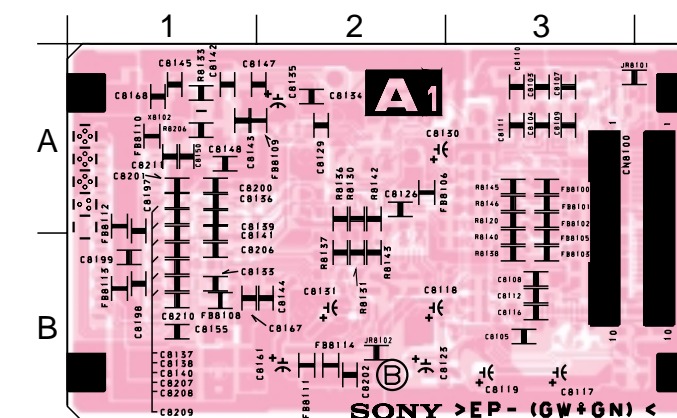
A1 [AUDIO DSP]

PRINTED WIRING BOARDS

- A1 Board (Component Side) -



- A1 Board (Conductor Side) -

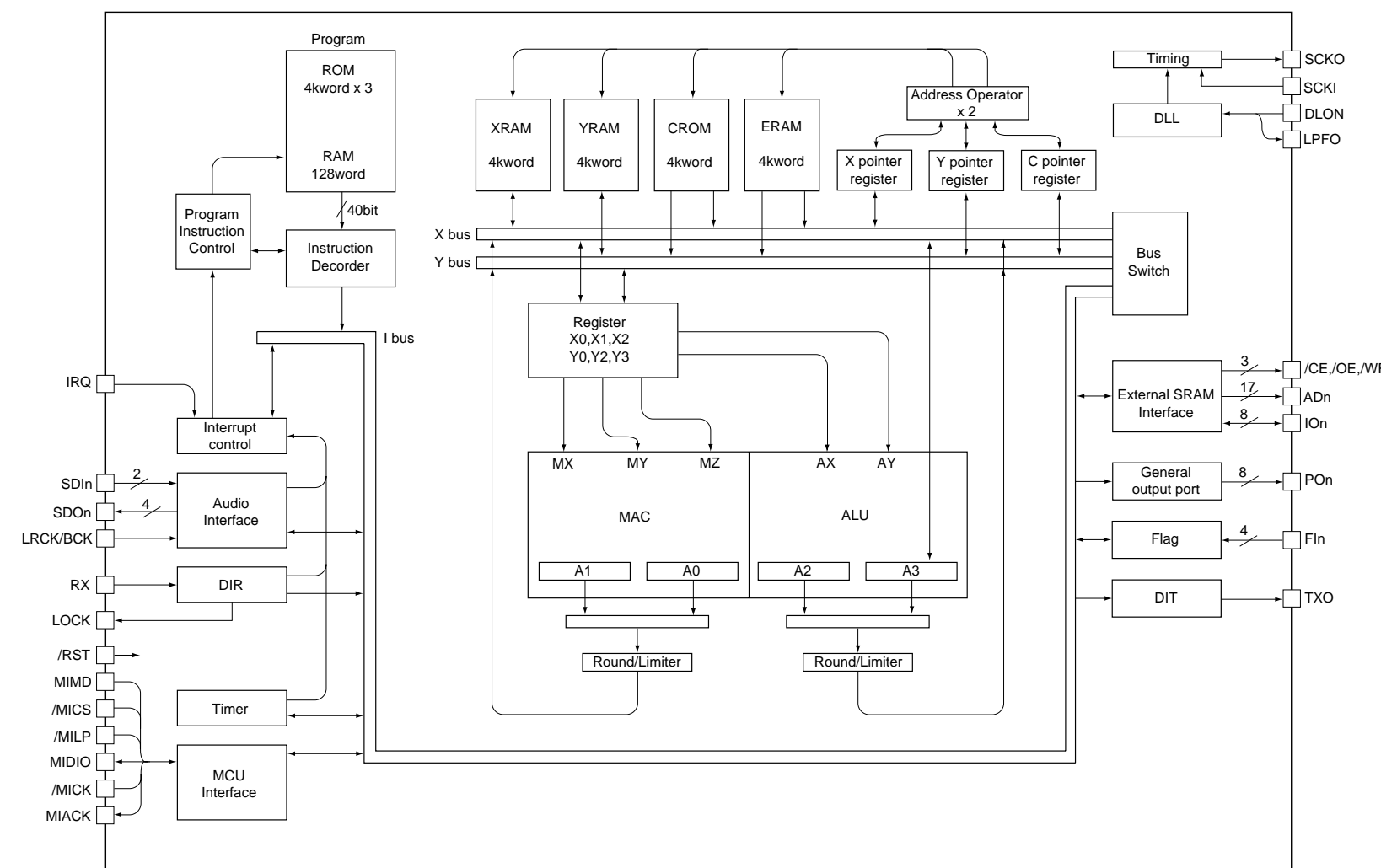


- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

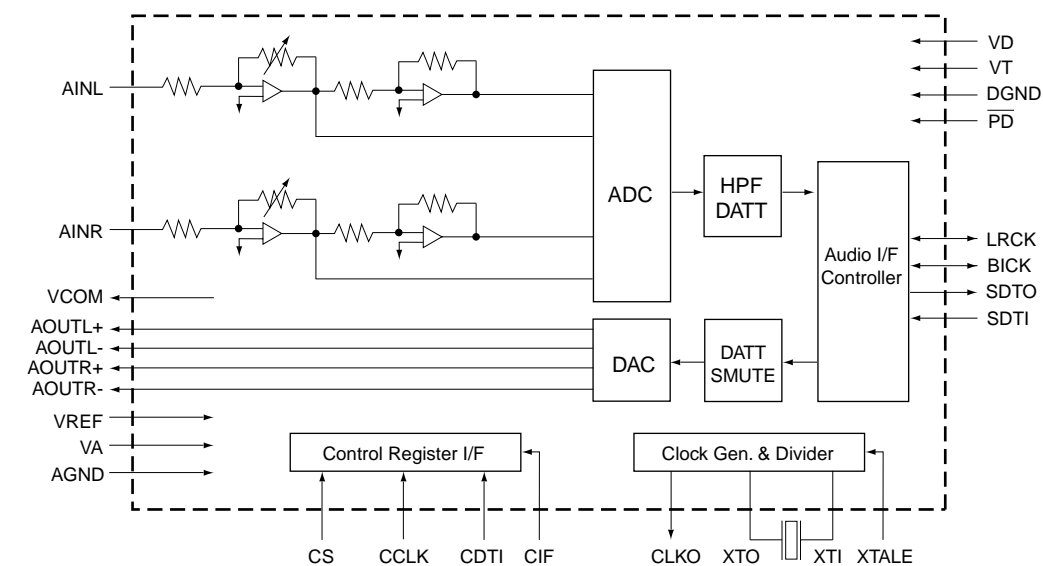
A1 BOARD (Component Side)

IC	
IC8102	B-1
IC8104	A-2
IC8105	B-4
IC8106	B-3
IC8108	B-1

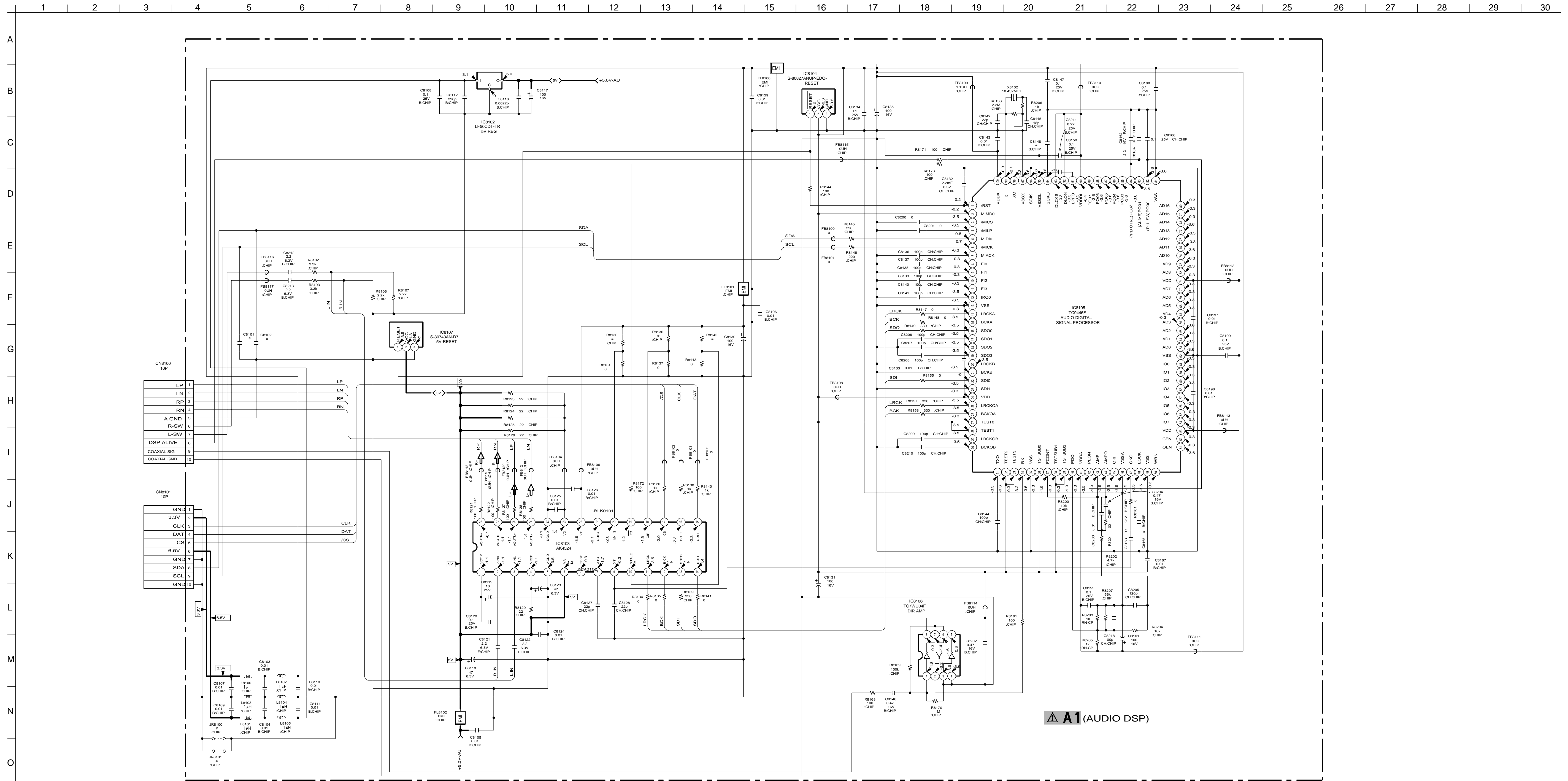
A1 BOARD IC8105 TC9446F-002 (TE85R)



A1 Board IC8103 AK4524



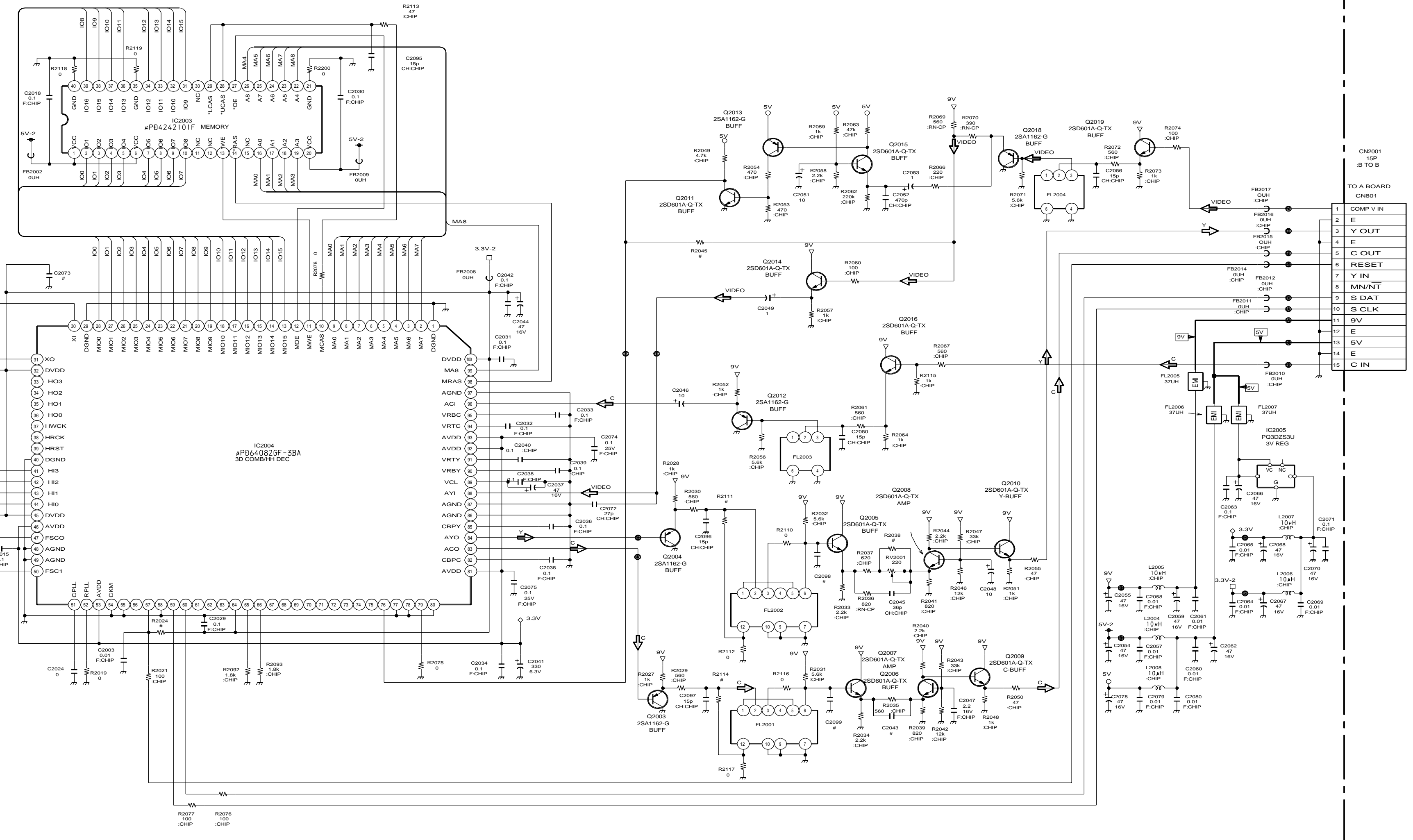
(14) Schematic Diagram of A1 Board



B-SSS10529-Korea-A1-ES34

BC4 (Y/C SEP)

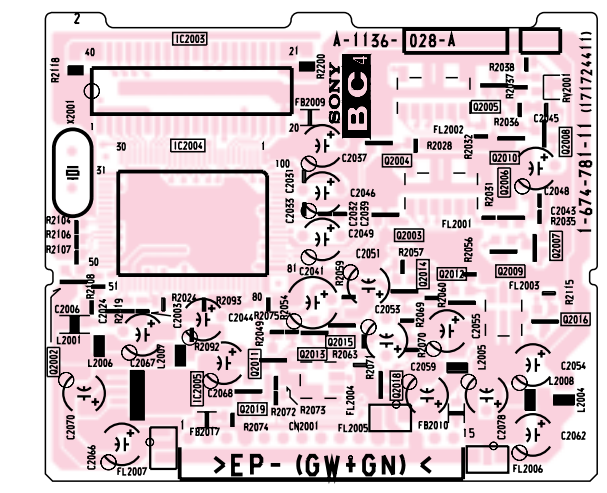
5V	A5V
5V-2	D5V
3.3V	A3.3V
3.3V-2	D3.3V
9V	9V



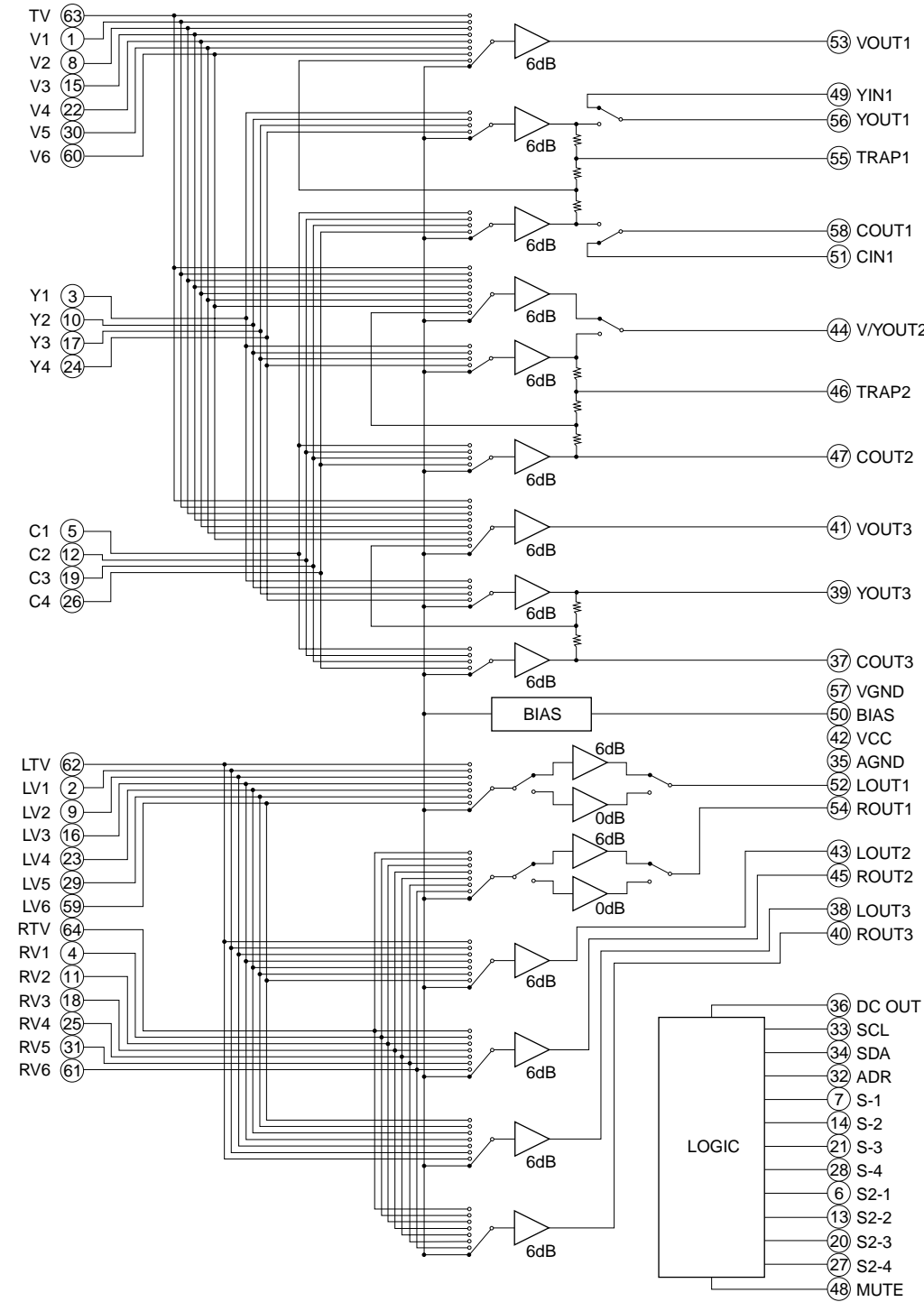
PRINTED WIRING BOARDS



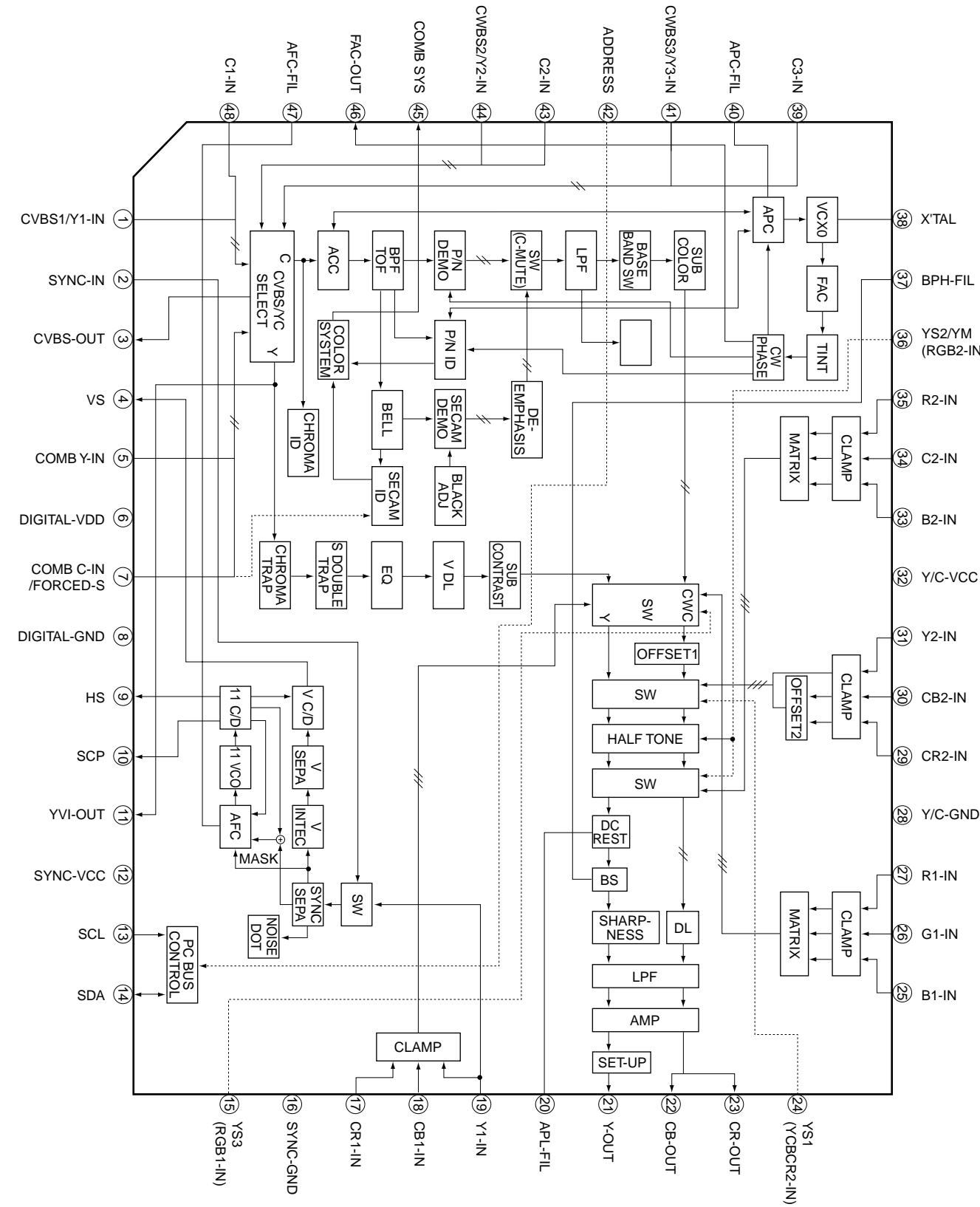
- BC4 Board -



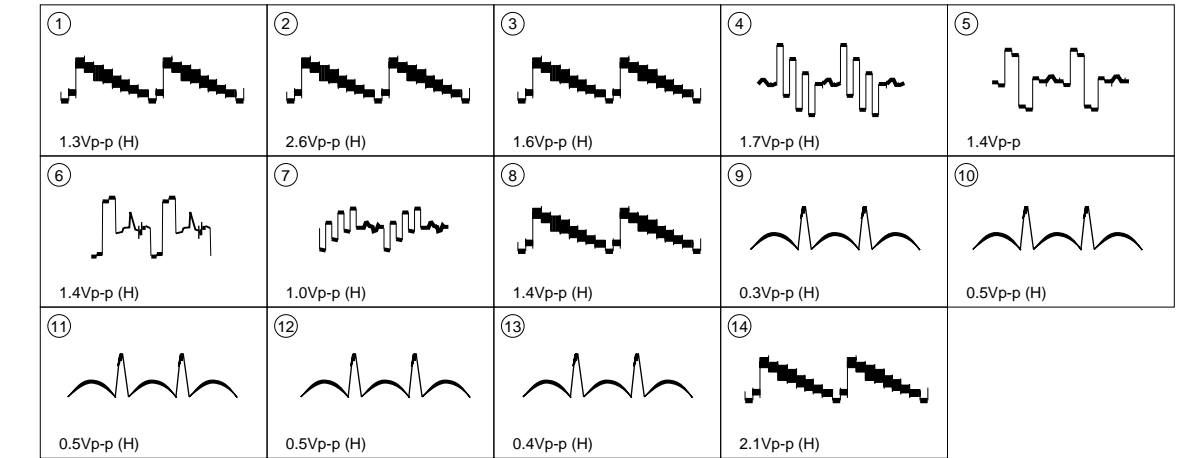
J Board IC8302 CXA2069Q



J Board IC8306 CXA2123AQ-T6



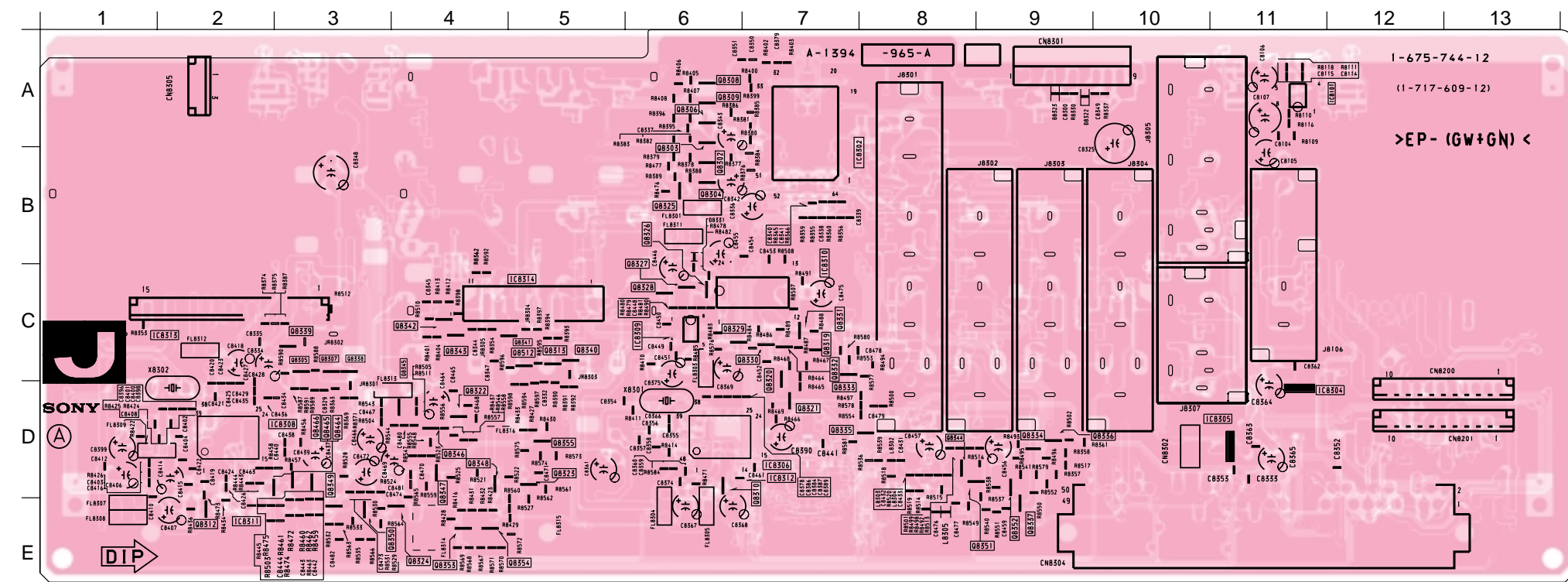
J BOARD WAVEFORMS





J [YCT, COMB FILTER, VIDEO/AUDIO-IN/OUT]

PRINTED WIRING BOARDS

– J Board (Component Side) –

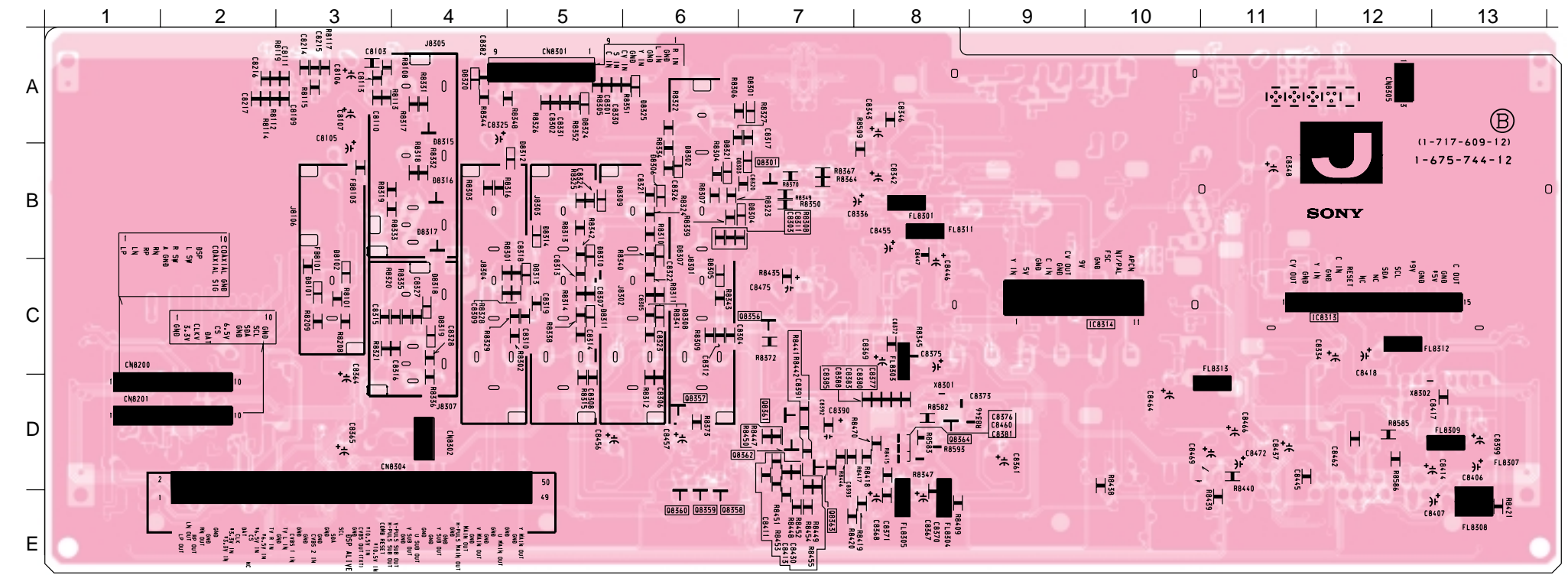


-  :Pattern from the side which enables seeing.
-  :Pattern from the rear side.

J BOARD (Component Side)

IC	Q8307 C-3	Q8339 C-3
IC0302 A-8	Q8308 A-6	Q8340 C-5
IC8101 A-12	Q8309 A-6	Q8341 C-5
IC8102 E-13	Q8310 D-7	Q8342 C-4
IC8103 B-13	Q8312 E-3	Q8343 C-4
IC8105 A-13	Q8313 C-5	Q8344 D-8
IC8106 C-12	Q8319 C-7	Q8345 C-3
IC8107 D-12	Q8320 C-7	Q8346 D-4
IC8304 D-12	Q8321 D-7	Q8347 D-4
IC8305 D-11	Q8322 D-4	Q8348 D-5
IC8306 D-7	Q8323 D-5	Q8349 E-3
IC8308 D-2	Q8324 D-4	Q8350 D-4
IC8309 C-6	Q8325 B-6	Q8351 D-9
IC8310 B-7	Q8326 B-6	Q8352 E-9
IC8311 E-3	Q8327 B-6	Q8353 E-5
IC8312 D-7	Q8328 C-6	Q8354 E-5
IC8313 C-2	Q8329 C-7	Q8355 D-5
IC8314 B-5	Q8330 C-7	
TRANSISTOR	Q8332 C-7	
Q8302 A-6	Q8333 C-7	
Q8303 A-6	Q8334 D-9	
Q8304 B-6	Q8335 D-7	
Q8305 C-3	Q8336 D10	
Q8306 A-6	Q8337 E-9	
	Q8338 C-3	

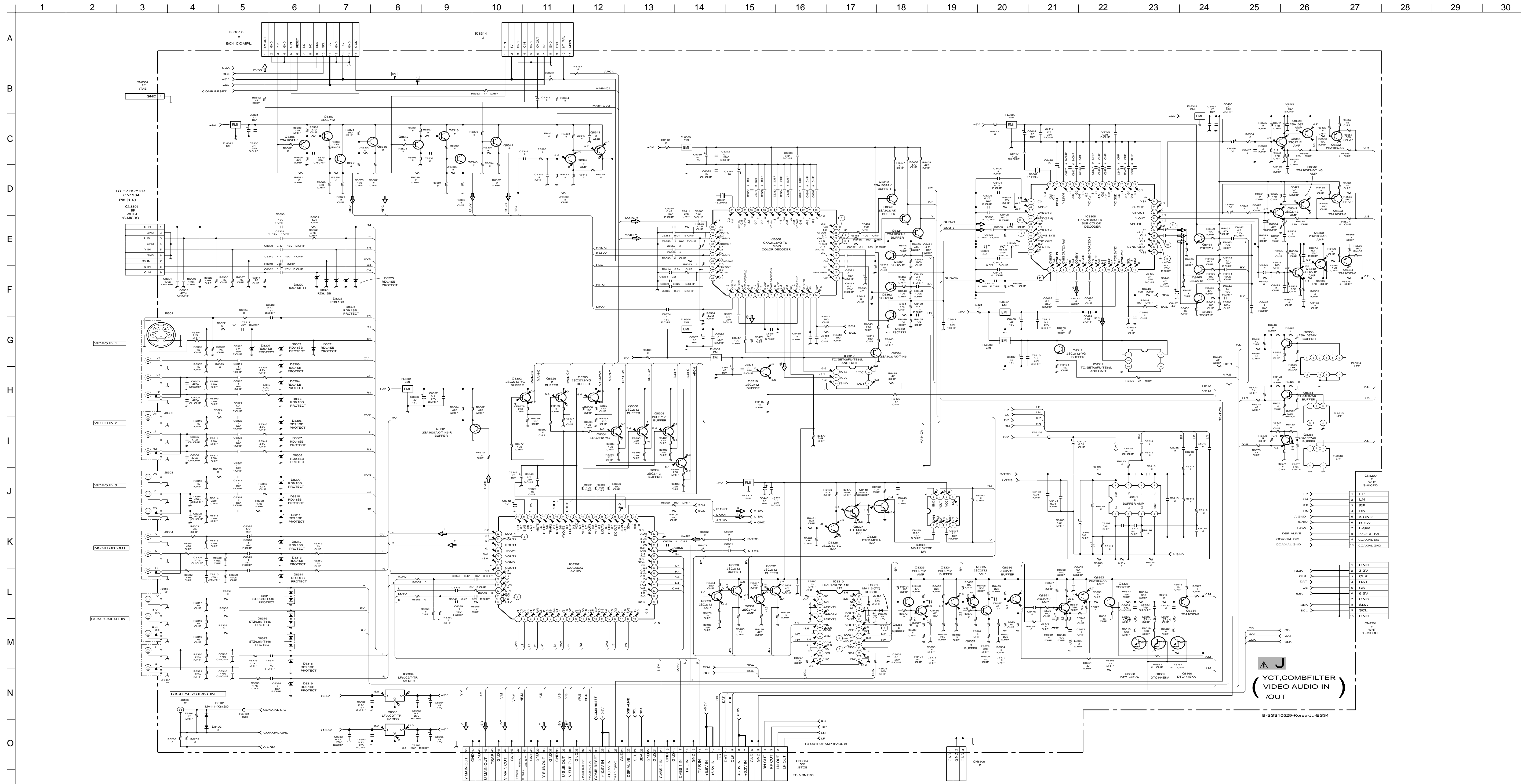
– J Board (Conductor Side) –



J BOARD (Conductor Side)

IC	D8302 B-6
IC8104 B-2	D8303 B-7
IC8313 C-12	D8304 B-7
IC8314 C-10	D8305 C-6
TRANSISTOR	D8306 B-6
Q8301 B-7	D8307 B-6
Q8356 C-7	D8308 C-6
Q8357 D-6	D8309 B-6
Q8358 E-7	D8310 B-5
Q8359 E-6	D8311 C-5
Q8360 E-6	D8313 C-5
	D8314 B-5
	D8315 A-4
	D8316 B-4
	D8317 B-4
	D8318 C-4
D8101 C-3	D8319 C-4
D8102 C-3	D8320 A-4
D8301 A-4	D8321 B-6
	D8325 A-4

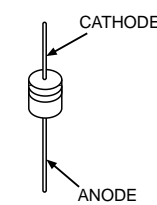
(16) Schematic Diagram of J Board



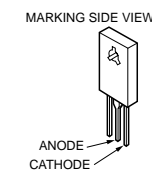
6-5. SEMICONDUCTORS

DIODE

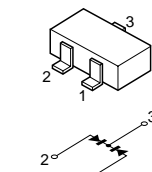
D1NS4
ERA38-06
ERA85-009
RD10ESB2
RD12ES-B1
RD13ES-B2
RD15ES-B1
RD18ESB
RD2.2ES-B2
RD2.7ESB2
RD22ES-B1
RD3.6ES-B1
RD3.9ES-B2
RD30ESB2
RD4.7ESB2
RD5.6ES-B1
RD6.8ES-B1
RD7.5ESB2
1SS119-25



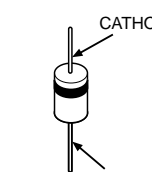
D1NL20U-TR



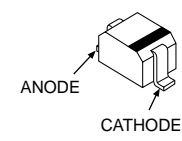
DAN202K



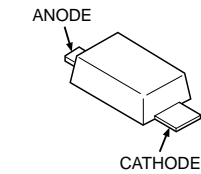
EL1Z
GP08D
HSS83TD
RGP02-20EL-6394



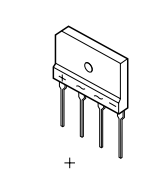
DTZ9.1
MA111-(K9).S0
MA113-(TX)
RD5.6SB3
RD9.1S-B



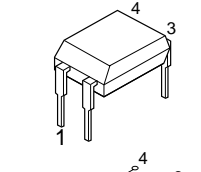
MA8039



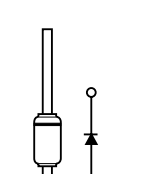
D4SB60L



ON3171-R



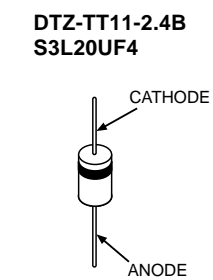
RD9.1ES-L2



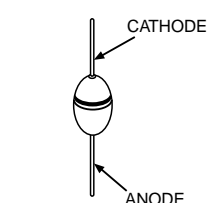
Schematic diagram
← J board

TRANSISTOR

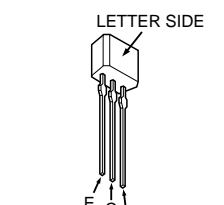
DTA144EKA-T146
DTC114EK
2SA1037AK-T146-R
2SA1162-G
2SC1623-L5L6
2SC2712-YG
2SD601A-Q-TX



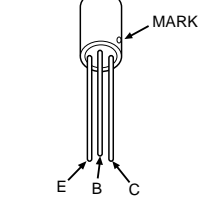
U05G



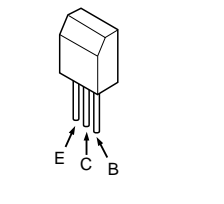
DTC144ESA
TR DTC144EKA
2SA1175-HFE
2SC2785-HFE



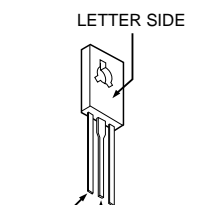
2SA2005



2SB733-34
2SD774-34

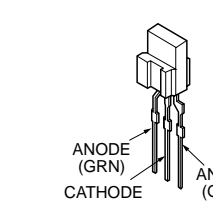


2SC3840(3)



LED

SPB-26MVWF



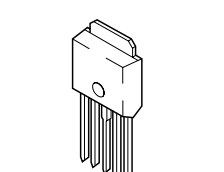
IC

AK4524
LF50CDT-TR
MM111EXFBE
NJM4560M
TC7WU04F
TDA7315D013TR
TDA7481
tPC4558G2

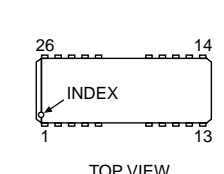


Dual In-line Package
Pin 6-98

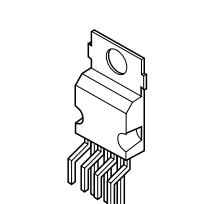
LA6510



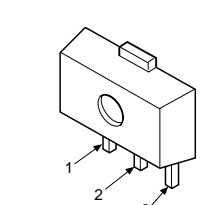
MSM514265C-60TS



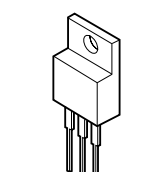
STV9379



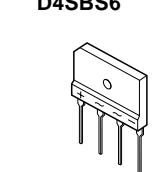
TA78L05S



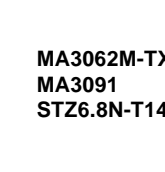
TA7805S



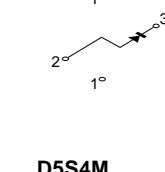
D4SBL20U
D4SBS6



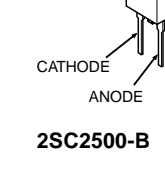
MA3062M-TX
MA3091
STZ6.8N-T146



D5S4M



2SC2500-B

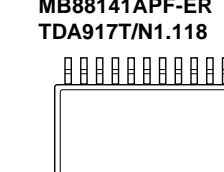


CA0005AD
CA0007AD
NJM3404AD
TOP209P
UPC393C
UPC358C



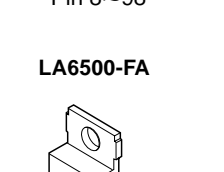
Dual In-line Package
Pin 6-98

MB88141APF-ER
TDA9177/N1.118

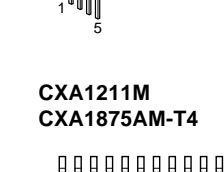


Small Outline L-leaded
Package
Pin 8-98

LA6500-FA

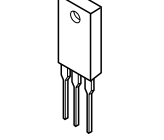


CXA1211M
CXA1875AM-T4

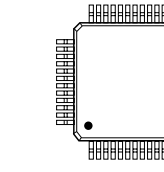


TOP VIEW

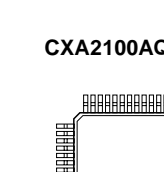
D10SC4M
D10SBS4F



CXD2069Q

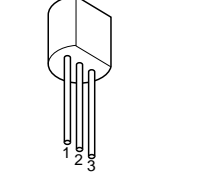


CXA2100AQ

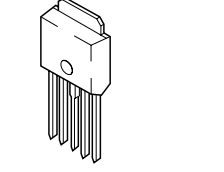


TOP VIEW

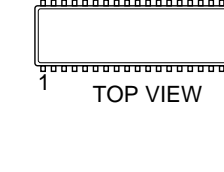
UPC1093J-1-T



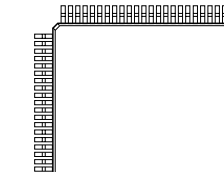
PQ3TZ53U



LM393N

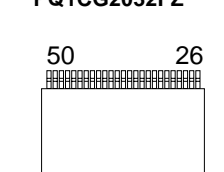


UPD64082QF-3BA



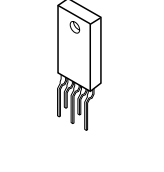
TOP VIEW

PQ1CG2032FZ

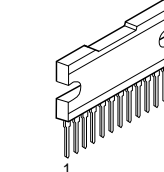


TOP VIEW

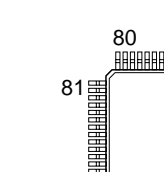
PQ5EV3



MCR5152



TC9446F-002



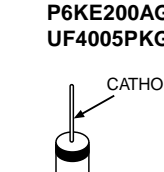
TOP VIEW

CXA2123AQ-T6



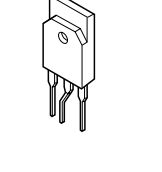
TOP VIEW

P6KE200AG23
UF4005PKG23

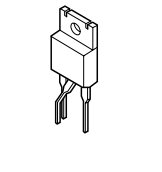


TOP VIEW

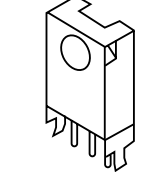
2SC5480-01



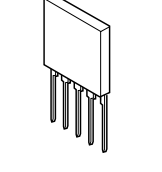
2SC5511



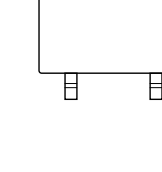
SBX1981-51P



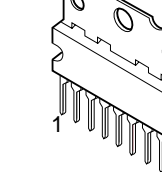
DM-58



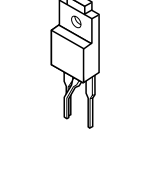
TC7SET08FU(TE85L)



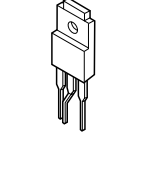
TDA6111Q/N4



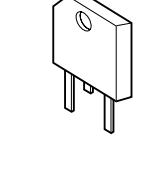
BA12T



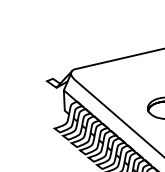
BA09T



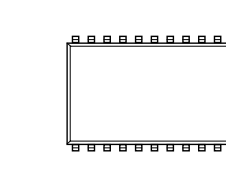
BA05T



CXP750096-019Q



SDA5254-2B006



SECTION 7 EXPLODED VIEWS

NOTE:

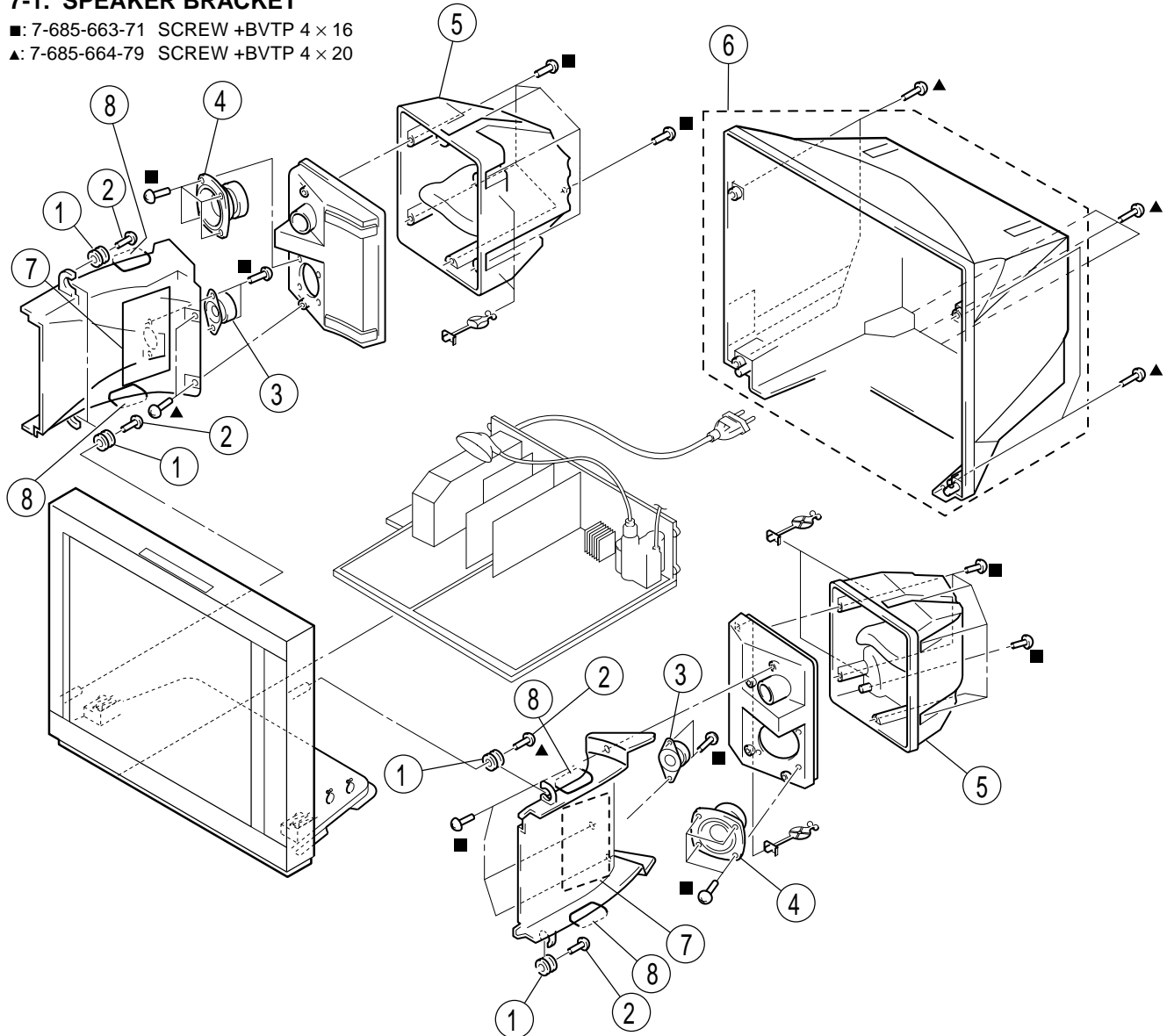
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

CAUTION: The aluminium frame must be connected to the ground with the ground cable from DH board.
Failure to do so, may cause the user to suffer electric shock.

7-1. SPEAKER BRACKET

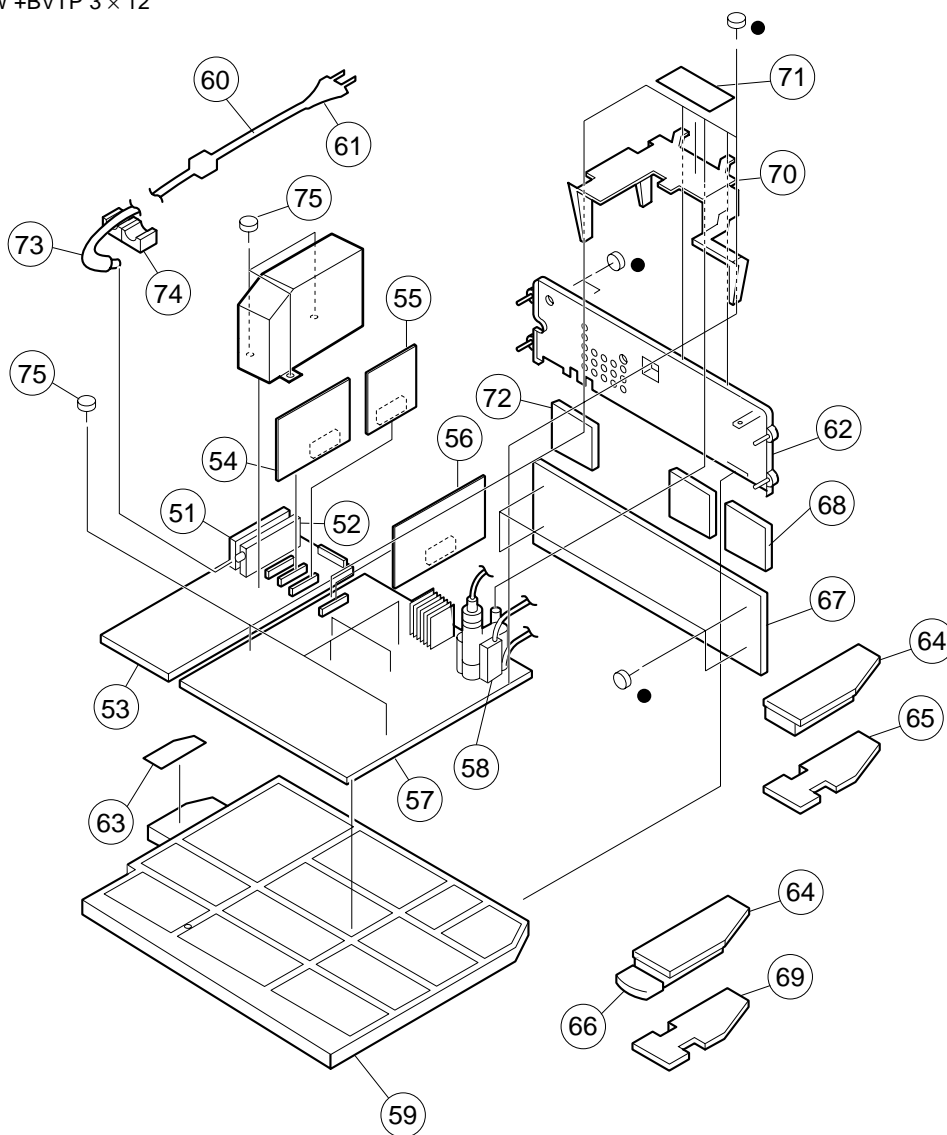
- : 7-685-663-71 SCREW +BVTP 4 × 16
- ▲: 7-685-664-79 SCREW +BVTP 4 × 20



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-374-745-11	CUSHION (A)	
2	4-064-929-02	SCREW, TP+TWH 4X25	
3	1-529-562-11	SPEAKER (7X4CM)	
4	1-505-473-11	SPEAKER (12CM)	
5	* 4-071-339-01	DUCT, SPEAKER	
6	X-4036-879-4	COVER ASSY, REAR	
7	* 4-073-084-02	DUCT, CUSHION	
8	* 4-074-512-01	CUSHION (S), DGC	

7-2. CHASSIS

●: 7-685-648-71 SCREW +BVTP 3 × 12

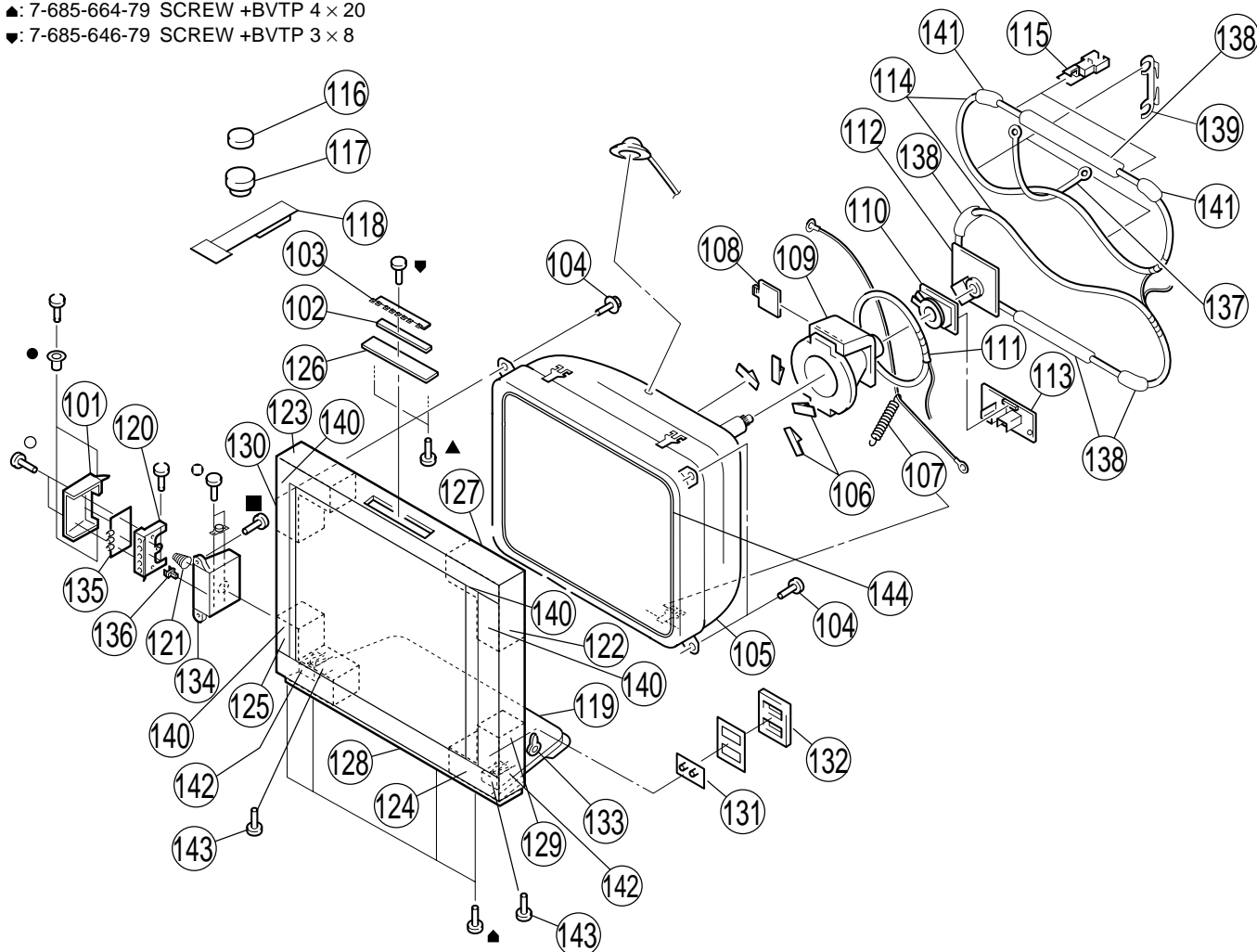


REF. NO.	PART NO.	DESCRIPTION	REMARK
51	8-598-475-01	TUNER, FSS BTF-WL411	
52	8-598-430-20	TUNER, FSS BTF-FA401	
53	* A-1299-225-A	A BOARD COMPLETE	
54	* A-1136-115-A	B3 BOARD COMPLETE	
55	* A-1343-778-E	E BOARD MOUNTED	
56	* A-1343-777-C	D1 BOARD MOUNTED	
57	* A-1346-902-C	D BOARD COMPLETE	
58	△ 1-453-326-11	TRANSFORMER ASSY, FLYBACK (NX-4601/J1J4)	
59	* 4-071-314-03	BRACKET, MAIN	
60	△ 4-022-115-01	HOLDER, AC CORD	
61	△ 1-792-764-11	CORD, POWER (WITH FILTER)	
62	* 4-071-315-01	BRACKET, TERMINAL	
63	* A-1241-402-A	F1 BOARD MOUNTED	
64	* 4-071-307-02	HOLDER, F2 /H1	
65	* A-1372-728-A	H1 BOARD MOUNTED	

REF. NO.	PART NO.	DESCRIPTION	REMARK
66	4-071-305-03	BUTTON, POWER	
67	* A-1394-979-A	J BOARD COMPLETE	
68	* A-1136-069-A	BC4 BOARD COMPLETE	
69	* A-1241-403-A	F2 BOARD MOUNTED	
70	* 4-071-316-02	SUPPORTER, PWB	
71	* A-1343-744-A	DH BOARD MOUNTED	
72	* A-1299-092-A	A1 BOARD COMPLETE	
73	1-792-458-11	CABLE, RF (WITH FERRITE)	
74	1-543-827-11	CLAMP, SLEEVE FERRITE	
75	4-302-428-03	SCREW (WASHER HEAD) (+P 3X12)	

7-3. PICTURE TUBE

- : 7-685-648-71 SCREW +BVTP 3 × 12
- : 7-685-663-71 SCREW +BVTP 4 × 16
- ▲: 7-685-661-14 SCREW +BVTP 4 × 12
- : 7-685-103-11 SCREW +P 2 × 5
- : 7-685-152-19 SCREW +P 3 × 25
- ▲: 7-685-664-79 SCREW +BVTP 4 × 20
- ▼: 7-685-646-79 SCREW +BVTP 3 × 8



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-071-308-01	DOOR, CONTROL		123	* 4-071-336-02	BRACKET (TL), CRT	
102	* A-1372-730-A	H3 BOARD MOUNTED		124	* 4-071-337-01	BRACKET (BR), CRT	
103	4-071-312-03	BUTTON, TOP SW		125	* 4-071-338-02	BRACKET (BL), CRT	
104	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER		126	* 4-071-311-02	HOLDER, H3	
105	▲ 8-735-062-05	PICTURE TUBE (A80LPD10X)		127	X-4037-510-1	FRAME SUB ASSY, TOP	
106	4-046-600-01	SPACER, DY		128	X-4037-421-1	FRAME SUB ASSY, BOTTOM	
107	* 4-065-852-21	SPRING, EXTENSION		129	X-4037-597-1	FRAME SUB ASSY, RIGHT	
108	2-163-920-01	PLATE, TLH CORRECTION		130	X-4037-423-1	FRAME SUB ASSY, LEFT	
109	▲ 8-451-500-31	DEFLECTION YOKE (Y34RSC2-M2)		131	* 4-071-306-01	LIGHT, GUIDE	
110	8-453-007-31	NA324-M3		132	* 4-072-950-01	BRACKET, LIGHT GUIDE	
111	1-452-896-11	COIL, NA ROTATION (RT200)		133	4-073-080-01	FASTEN	
112	* A-1332-005-A	C BOARD MOUNTED		134	* 4-071-310-04	BRACKET, SIDE	
113	* A-1342-515-A	VM BOARD MOUNTED		135	* A-1372-729-A	H2 BOARD MOUNTED	
114	▲ 1-419-293-11	COIL, DEGAUSSING		136	4-047-464-01	CATCHER, PUSH	
115	* 4-067-221-02	CLIP, DGC		137	4-067-445-01	BAND, DGC	
116	1-452-032-00	MAGNET, DISC		138	* 4-074-513-01	CUSHION (L), DGC	
117	1-452-094-00	CIRCULAR DISC MAGNET B		139	4-054-297-01	HOLDER, DGC	
118	4-051-734-21	PIECE B(120), CONV. CORRECT		140	4-072-956-01	SCREW SPECIAL (DIA.8) (+TP 4 X 9)	
119	* 4-071-334-02	COVER, FRONT		141	* 4-074-512-01	CUSHION (S), DGC	
120	* X-4037-516-1	HOLDER ASSY, CONTROL		142	* 4-071-673-01	SHEET, COVER	
121	4-071-323-01	SPRING, CONE		143	* 4-302-428-03	SCREW (WASHER HEAD) (+P 3X12)	
122	* 4-071-335-02	BRACKET (TR), CRT		144	* 1-419-295-11	COIL, LANDING CORRECTION	

SECTION 8

ELECTRICAL PARTS LIST



NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - All resistors are in ohms
 - F : nonflammable
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS
- MF : μ F, PF : μ μ F
- COILS
- MMH : mH, UH : μ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1299-255-A	A BOARD COMPLETE	*****		C1204	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
				C1205	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
* 1-555-110-00	CABLE, PIN			C1206	1-126-965-11	ELECT 22UF	20.00% 50V
4-382-854-11	SCREW (M3X10), P, SW (+)			C1207	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V
				C1208	1-126-023-11	ELECT 100UF	20.00% 16V
		<CAPACITOR>		C1209	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C004	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V	C1210	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C005	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V	C1211	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V
C006	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1212	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C007	1-126-933-11	ELECT 100UF	20.00% 16V	C1213	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V
C009	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C1214	1-126-055-11	ELECT 470UF	20.00% 50V
C010	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C1215	1-126-055-11	ELECT 470UF	20.00% 50V
C012	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C1216	1-126-943-11	ELECT 2200UF	20.00% 25V
C013	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1217	1-126-943-11	ELECT 2200UF	20.00% 25V
C014	1-126-967-11	ELECT 47UF	20.00% 50V	C1219	1-126-961-11	ELECT 2.2UF	20.00% 50V
C015	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C1220	1-126-961-11	ELECT 2.2UF	20.00% 50V
C016	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V	C1221	1-126-933-11	ELECT 100UF	20.00% 16V
C017	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	C1222	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C018	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1223	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C019	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1224	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C020	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1225	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C021	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1229	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C024	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C1230	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C028	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V	C1241	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C030	1-126-960-11	ELECT 1UF	20.00% 50V	C1242	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C031	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1243	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C032	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1244	1-110-617-51	ELECT 2200UF	20.00% 50V
C033	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C1245	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C034	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V	C1246	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C101	1-126-964-11	ELECT 10UF	20.00% 50V	C1247	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C103	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1248	1-110-617-51	ELECT 2200UF	20.00% 50V
C104	1-126-933-11	ELECT 100UF	20.00% 16V	C1249	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C106	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V	C1251	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C107	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1252	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C108	1-126-933-11	ELECT 100UF	20.00% 16V	C1253	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C109	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1255	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C110	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1256	1-137-194-81	MYLAR 0.47UF	5.00% 50V
C111	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1258	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C112	1-126-933-11	ELECT 100UF	20.00% 16V	C1259	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C113	1-126-967-11	ELECT 47UF	20.00% 50V	C1260	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C114	1-126-967-11	ELECT 47UF	20.00% 50V	C1262	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C301	1-126-767-11	ELECT 1000UF	20.00% 16V	C1263	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C326	1-126-964-11	ELECT 10UF	20.00% 50V	C1264	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C1201	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1265	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C1202	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1267	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1203	1-164-505-11	CERAMIC CHIP 2.2UF	16V	C1268	1-137-194-81	MYLAR 0.47UF	5.00% 50V
				C1270	1-163-007-11	CERAMIC CHIP 680PF	10.00% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1271	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V		
C1272	1-126-941-11	ELECT	470UF	20.00%	25V		
C1273	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V		
C1274	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V		
C1275	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V		
C1276	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V		
C1277	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V		
C1279	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V		
C1281	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V		
C1282	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V		
C1283	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V		
C1284	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V		
C1285	1-126-933-11	ELECT	100UF	20.00%	16V		
C1286	1-126-933-11	ELECT	100UF	20.00%	16V		
C1287	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V		
C1288	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V		
C1289	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V		
C1290	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V		
C1291	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V		
C1292	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V		
C1297	1-136-177-00	MYLAR	1UF	5.00%	50V		
C1298	1-136-177-00	MYLAR	1UF	5.00%	50V		
C1301	1-126-933-11	ELECT	100UF	20.00%	16V		
C1302	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V		
C2200	1-126-964-11	ELECT	10UF	20.00%	50V		
C2201	1-126-964-11	ELECT	10UF	20.00%	50V		
C2202	1-126-964-11	ELECT	10UF	20.00%	50V		
C2203	1-126-963-11	ELECT	4.7UF	20.00%	50V		
C2204	1-125-838-91	CERAMIC CHIP	2.2UF	10%	6.3V		
C2205	1-125-838-91	CERAMIC CHIP	2.2UF	10%	6.3V		
C2206	1-126-964-11	ELECT	10UF	20.00%	50V		
C2209	1-126-968-11	ELECT	100UF	20.00%	50V		
C2600	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C2601	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C2602	1-126-933-11	ELECT	100UF	20.00%	16V		
C2603	1-126-933-11	ELECT	100UF	20.00%	16V		
C2605	1-126-925-11	ELECT	470UF	20.00%	10V		
C2606	1-164-344-11	CERAMIC CHIP	0.068UF	10.00%	25V		
C2608	1-126-916-11	ELECT	1000UF	20.00%	6.3V		
C2609	1-126-935-11	ELECT	470UF	20.00%	6.3V		
C2610	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C2611	1-126-934-11	ELECT	220UF	20.00%	16V		
C2612	1-104-665-11	ELECT	100UF	20.00%	25V		
C2613	1-104-665-11	ELECT	100UF	20.00%	25V		
C2614	1-126-925-11	ELECT	470UF	20.00%	10V		
C3302	1-126-964-11	ELECT	10UF	20.00%	50V		
C3330	1-107-725-11	CERAMIC CHIP	0.1UF	10.00%	16V		
C3331	1-126-933-11	ELECT	100UF	20.00%	16V		
C3336	1-126-933-11	ELECT	100UF	20.00%	16V		
C3337	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V		
C3338	1-163-005-11	CERAMIC CHIP	470PF	10.00%	50V		
C3350	1-163-005-11	CERAMIC CHIP	470PF	10.00%	50V		
C3351	1-163-005-11	CERAMIC CHIP	470PF	10.00%	50V		
C3352	1-163-005-11	CERAMIC CHIP	470PF	10.00%	50V		
C3353	1-126-933-11	ELECT	100UF	20.00%	16V		
C3354	1-126-967-11	ELECT	47UF	20.00%	50V		
C3355	1-126-967-11	ELECT	47UF	20.00%	50V		
						<CONNECTOR>	
CN1100*	1-560-218-00	PIN, CONNECTOR	7P				
CN1108	1-695-299-11	CONNECTOR, BOARD TO BOARD	50P				
CN1116	1-695-915-11	TAB (CONTACT)					
CN1138*	1-564-507-11	PLUG, CONNECTOR	4P				
CN1140	1-793-494-11	CONNECTOR, BOARD TO BOARD	40P				
CN1160*	1-764-333-11	PLUG, CONNECTOR	10P				
CN1162	1-900-903-64	CONNECTOR ASSY	20P				
CN1180	1-793-495-11	CONNECTOR, BOARD TO BOARD	50P				
CN1190*	1-564-510-11	PLUG, CONNECTOR	7P				
CN1193*	1-764-333-11	PLUG, CONNECTOR	10P				
CN1195*	1-564-506-11	PLUG, CONNECTOR	3P				
CN1196*	1-508-797-00	PIN, CONNECTOR	4P				
						<COMPOSITION CIRCUIT BLOCK>	
CP1300	1-251-658-31	SPLITTER	RF				
						<DIODE>	
D001	8-719-404-50	DIODE	MA111-(K8).S0				
D002	8-719-404-50	DIODE	MA111-(K8).S0				
D003	8-719-404-50	DIODE	MA111-(K8).S0				
D004	8-719-404-50	DIODE	MA111-(K8).S0				
D005	8-719-404-50	DIODE	MA111-(K8).S0				
D006	8-719-404-50	DIODE	MA111-(K8).S0				
D007	8-719-158-18	DIODE	RD5.6SB3				
D013	8-719-158-18	DIODE	RD5.6SB3				
D014	8-719-404-50	DIODE	MA111-(K8).S0				
D300	8-719-404-50	DIODE	MA111-(K8).S0				
D301	8-719-404-50	DIODE	MA111-(K8).S0				
D302	8-719-404-50	DIODE	MA111-(K8).S0				
D317	8-719-404-50	DIODE	MA111-(K8).S0				
D1205	8-719-158-35	DIODE	RD9.1SB				
D1208	8-719-404-50	DIODE	MA111-(K8).S0				
D1209	8-719-404-50	DIODE	MA111-(K8).S0				
D2200	8-719-158-35	DIODE	RD9.1SB				
D2201	8-719-158-35	DIODE	RD9.1SB				
D2600	8-719-500-70	DIODE	D5S4M				
						<FERRITE BEAD>	
FB001	1-414-233-22	INDUCTOR CHIP	0UH				
FB002	1-414-233-22	INDUCTOR CHIP	0UH				
FB003	1-414-233-22	INDUCTOR CHIP	0UH				
FB004	1-414-233-22	INDUCTOR CHIP	0UH				
FB005	1-414-233-22	INDUCTOR CHIP	0UH				
FB006	1-414-233-22	INDUCTOR CHIP	0UH				
FB007	1-414-233-22	INDUCTOR CHIP	0UH				
FB008	1-414-233-22	INDUCTOR CHIP	0UH				
FB1205	1-410-397-21	FERRITE	1.1UH				
FB1206	1-410-397-21	FERRITE	1.1UH				
FB1207	1-410-397-21	FERRITE	1.1UH				
FB1208	1-410-397-21	FERRITE	1.1UH				
FB1300	1-216-295-91	SHORT	0				

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>					
FL001	1-236-071-11	ENCAPSULATED COMPONENT		PS1203	1-532-686-21	LINK, IC 2.7A/150V	
		<IC>		PS1204	1-532-686-21	LINK, IC 2.7A/150V	
IC001	Δ 8-752-913-12	IC CXP750096-019Q				<TRANSISTOR>	
IC002	8-759-042-02	IC S-80743AL-A7-S		Q001	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
IC003	8-759-675-64	IC M24C08-MN6T(A)		Q002	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC004	8-759-575-71	IC M24C04-WMN6T		Q003	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC1201	8-759-273-12	IC TDA7315D013TR		Q004	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC1203	8-759-553-45	IC TDA7481		Q005	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
IC1204	8-759-553-45	IC TDA7481		Q006	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
IC1205	8-759-100-96	IC UPC4558G2		Q007	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
IC2200	8-759-745-64	IC NJM4560M		Q101	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
IC2600	8-759-394-36	IC BA09T		Q102	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
IC2601	8-759-450-47	IC BA05T		Q301	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
IC2603	8-759-640-19	IC PQ1CG2032FZ		Q313	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC2604	8-759-644-37	IC PQ5EV3		Q1205	1-801-806-11	TRANSISTOR DTC144EKA	
		<CHIP CONDUCTOR>		Q1206	8-729-230-49	TRANSISTOR 2SC2712-YG	
JR001	1-216-295-91	SHORT	0	Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG	
JR002	1-216-295-91	SHORT	0	Q1209	8-729-230-49	TRANSISTOR 2SC2712-YG	
JR107	1-216-295-91	SHORT	0	Q1210	8-729-230-49	TRANSISTOR 2SC2712-YG	
JR111	1-216-295-91	SHORT	0	Q1211	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
JR2601	1-216-295-91	SHORT	0	Q2200	1-801-806-11	TRANSISTOR DTC144EKA	
		<COIL>		Q2201	1-801-806-11	TRANSISTOR DTC144EKA	
L001	1-414-856-11	INDUCTOR	10UH	Q3300	8-729-026-50	TRANSISTOR 2SA1037AK-T146	
L002	1-414-856-11	INDUCTOR	10UH			<RESISTOR>	
L003	1-414-751-11	INDUCTOR	1UH	R001	1-216-033-00	RES-CHIP	220 5% 1/10W
L005	1-414-856-11	INDUCTOR	10UH	R002	1-216-033-00	RES-CHIP	220 5% 1/10W
L101	1-414-856-11	INDUCTOR	10UH	R003	1-216-049-91	RES-CHIP	1K 5% 1/10W
L102	1-414-856-11	INDUCTOR	10UH	R004	1-216-295-91	SHORT	0
L103	1-414-856-11	INDUCTOR	10UH	R005	1-216-295-91	SHORT	0
L104	1-414-856-11	INDUCTOR	10UH	R006	1-216-033-00	RES-CHIP	220 5% 1/10W
L105	1-414-856-11	INDUCTOR	10UH	R007	1-216-033-00	RES-CHIP	220 5% 1/10W
L1201	1-414-187-11	INDUCTOR	47UH	R008	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L1202	1-416-857-11	INDUCTOR	65UH	R009	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L1203	1-416-857-11	INDUCTOR	65UH	R010	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
L1204	1-416-966-11	INDUCTOR	30UH	R011	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L1205	1-416-966-11	INDUCTOR	30UH	R012	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
L1300	1-414-856-11	INDUCTOR	10UH	R013	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L2600	1-419-249-11	INDUCTOR	15UH	R014	1-216-025-91	RES-CHIP	100 5% 1/10W
L2601	1-419-249-11	INDUCTOR	15UH	R015	1-216-025-91	RES-CHIP	100 5% 1/10W
L2602	1-412-525-31	INDUCTOR	10UH	R016	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
L2603	1-412-525-31	INDUCTOR	10UH	R017	1-216-049-91	RES-CHIP	1K 5% 1/10W
L3302	1-414-856-11	INDUCTOR	10UH	R018	1-216-045-00	RES-CHIP	680 5% 1/10W
L3303	1-414-856-11	INDUCTOR	10UH	R019	1-216-049-91	RES-CHIP	1K 5% 1/10W
L3304	1-414-856-11	INDUCTOR	10UH	R020	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
L3305	1-414-856-11	INDUCTOR	10UH	R021	1-216-295-91	SHORT	0
L3306	1-414-856-11	INDUCTOR	10UH	R022	1-216-033-00	RES-CHIP	220 5% 1/10W
		<IC LINK>		R023	1-216-025-91	RES-CHIP	100 5% 1/10W
PS1201	1-532-686-21	LINK, IC 2.7A/150V		R024	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
PS1202	1-532-686-21	LINK, IC 2.7A/150V		R025	1-216-033-00	RES-CHIP	220 5% 1/10W
				R026	1-216-033-00	RES-CHIP	220 5% 1/10W
				R027	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R028	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R029	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R030	1-216-025-91	RES-CHIP	100 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R031	1-216-033-00	RES-CHIP	220 5% 1/10W	R088	1-216-049-91	RES-CHIP	1K 5% 1/10W
R032	1-216-049-91	RES-CHIP	1K 5% 1/10W	R089	1-216-049-91	RES-CHIP	1K 5% 1/10W
R033	1-216-033-00	RES-CHIP	220 5% 1/10W	R090	1-216-295-91	SHORT	0
R034	1-216-295-91	SHORT	0	R091	1-216-295-91	SHORT	0
R035	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R092	1-216-033-00	RES-CHIP	220 5% 1/10W
R036	1-216-083-00	RES-CHIP	27K 5% 1/10W	R093	1-216-073-00	RES-CHIP	10K 5% 1/10W
R037	1-216-083-00	RES-CHIP	27K 5% 1/10W	R094	1-216-073-00	RES-CHIP	10K 5% 1/10W
R038	1-216-045-00	RES-CHIP	680 5% 1/10W	R095	1-216-049-91	RES-CHIP	1K 5% 1/10W
R039	1-216-025-91	RES-CHIP	100 5% 1/10W	R096	1-216-049-91	RES-CHIP	1K 5% 1/10W
R040	1-216-033-00	RES-CHIP	220 5% 1/10W	R097	1-216-025-91	RES-CHIP	100 5% 1/10W
R041	1-216-025-91	RES-CHIP	100 5% 1/10W	R098	1-216-025-91	RES-CHIP	100 5% 1/10W
R042	1-216-295-91	SHORT	0	R099	1-216-025-91	RES-CHIP	100 5% 1/10W
R043	1-216-025-91	RES-CHIP	100 5% 1/10W	R100	1-216-025-91	RES-CHIP	100 5% 1/10W
R044	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R104	1-216-025-91	RES-CHIP	100 5% 1/10W
R045	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R105	1-216-295-91	SHORT	0
R046	1-216-033-00	RES-CHIP	220 5% 1/10W	R106	1-216-049-91	RES-CHIP	1K 5% 1/10W
R047	1-216-033-00	RES-CHIP	220 5% 1/10W	R107	1-247-855-31	CARBON	10K 5% 1/4W
R048	1-216-073-00	RES-CHIP	10K 5% 1/10W	R108	1-247-847-31	CARBON	4.7K 5% 1/4W
R049	1-216-689-11	METAL CHIP	39K 0.5% 1/10W	R109	1-216-041-00	RES-CHIP	470 5% 1/10W
R050	1-216-689-11	METAL CHIP	39K 0.5% 1/10W	R110	1-216-043-91	RES-CHIP	560 5% 1/10W
R051	1-216-049-91	RES-CHIP	1K 5% 1/10W	R111	1-216-025-91	RES-CHIP	100 5% 1/10W
R052	1-216-049-91	RES-CHIP	1K 5% 1/10W	R112	1-216-025-91	RES-CHIP	100 5% 1/10W
R053	1-216-049-91	RES-CHIP	1K 5% 1/10W	R114	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R054	1-216-033-00	RES-CHIP	220 5% 1/10W	R115	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R055	1-216-295-91	SHORT	0	R116	1-216-025-91	RES-CHIP	100 5% 1/10W
R056	1-216-295-91	SHORT	0	R117	1-216-025-91	RES-CHIP	100 5% 1/10W
R057	1-216-295-91	SHORT	0	R118	1-216-025-91	RES-CHIP	100 5% 1/10W
R058	1-216-295-91	SHORT	0	R301	1-216-113-00	RES-CHIP	470K 5% 1/10W
R059	1-216-033-00	RES-CHIP	220 5% 1/10W	R302	1-216-089-91	RES-CHIP	47K 5% 1/10W
R060	1-216-033-00	RES-CHIP	220 5% 1/10W	R303	1-216-089-91	RES-CHIP	47K 5% 1/10W
R061	1-216-025-91	RES-CHIP	100 5% 1/10W	R1201	1-216-033-00	RES-CHIP	220 5% 1/10W
R062	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1202	1-216-033-00	RES-CHIP	220 5% 1/10W
R063	1-216-025-91	RES-CHIP	100 5% 1/10W	R1203	1-216-079-00	RES-CHIP	18K 5% 1/10W
R064	1-216-025-91	RES-CHIP	100 5% 1/10W	R1204	1-216-079-00	RES-CHIP	18K 5% 1/10W
R065	1-216-045-00	RES-CHIP	680 5% 1/10W	R1205	1-216-089-91	RES-CHIP	47K 5% 1/10W
R066	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1206	1-216-089-91	RES-CHIP	47K 5% 1/10W
R067	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1207	1-216-073-00	RES-CHIP	10K 5% 1/10W
R068	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1208	1-216-073-00	RES-CHIP	10K 5% 1/10W
R069	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1236	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R070	1-216-033-00	RES-CHIP	220 5% 1/10W	R1237	1-216-085-00	RES-CHIP	33K 5% 1/10W
R071	1-216-025-91	RES-CHIP	100 5% 1/10W	R1238	1-216-081-00	RES-CHIP	22K 5% 1/10W
R072	1-216-025-91	RES-CHIP	100 5% 1/10W	R1239	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R073	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R1240	1-216-085-00	RES-CHIP	33K 5% 1/10W
R074	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R1241	1-216-073-00	RES-CHIP	10K 5% 1/10W
R075	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R1242	1-216-073-00	RES-CHIP	10K 5% 1/10W
R076	1-216-295-91	SHORT	0	R1244	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R077	1-216-025-91	RES-CHIP	100 5% 1/10W	R1246	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R078	1-216-295-91	SHORT	0	R1247	1-216-085-00	RES-CHIP	33K 5% 1/10W
R079	1-216-025-91	RES-CHIP	100 5% 1/10W	R1248	1-216-075-00	RES-CHIP	12K 5% 1/10W
R080	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R1249	1-216-025-91	RES-CHIP	100 5% 1/10W
R081	1-216-025-91	RES-CHIP	100 5% 1/10W	R1250	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R082	1-216-041-00	RES-CHIP	470 5% 1/10W	R1252	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R083	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1253	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R084	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1254	1-216-075-00	RES-CHIP	12K 5% 1/10W
R085	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R1255	1-216-075-00	RES-CHIP	12K 5% 1/10W
R086	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1256	1-216-073-00	RES-CHIP	10K 5% 1/10W
R087	1-216-033-00	RES-CHIP	220 5% 1/10W	R1257	1-216-025-91	RES-CHIP	100 5% 1/10W
				R1258	1-216-075-00	RES-CHIP	12K 5% 1/10W

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

A **A1**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1259	1-216-073-00	RES-CHIP 10K	5% 1/10W
R1260	1-216-037-00	RES-CHIP 330	5% 1/10W
R1261	1-216-037-00	RES-CHIP 330	5% 1/10W
R1264	1-216-041-00	RES-CHIP 470	5% 1/10W
R1265	1-216-041-00	RES-CHIP 470	5% 1/10W
R1266	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1267	1-216-077-91	RES-CHIP 15K	5% 1/10W
R1269	1-216-025-91	RES-CHIP 100	5% 1/10W
R1270	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1271	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1272	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1273	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R1275	1-216-081-00	RES-CHIP 22K	5% 1/10W
R1276	1-216-081-00	RES-CHIP 22K	5% 1/10W
R1277	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R1280	1-216-037-00	RES-CHIP 330	5% 1/10W
R1281	1-216-037-00	RES-CHIP 330	5% 1/10W
R1283	1-216-295-91	SHORT 0	
R1284	1-216-295-91	SHORT 0	
R1286	1-216-073-00	RES-CHIP 10K	5% 1/10W
R1287	1-216-037-00	RES-CHIP 330	5% 1/10W
R1288	1-216-037-00	RES-CHIP 330	5% 1/10W
R1289	1-216-037-00	RES-CHIP 330	5% 1/10W
R1290	1-216-037-00	RES-CHIP 330	5% 1/10W
R2200	1-216-021-00	RES-CHIP 68	5% 1/10W
R2201	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R2202	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R2203	1-216-021-00	RES-CHIP 68	5% 1/10W
R2204	1-216-073-00	RES-CHIP 10K	5% 1/10W
R2205	1-216-097-91	RES-CHIP 100K	5% 1/10W
R2206	1-216-117-00	RES-CHIP 680K	5% 1/10W
R2207	1-216-063-91	RES-CHIP 3.9K	5% 1/10W
R2208	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R2209	1-216-117-00	RES-CHIP 680K	5% 1/10W
R2210	1-216-089-91	RES-CHIP 47K	5% 1/10W
R2211	1-216-097-91	RES-CHIP 100K	5% 1/10W
R2212	1-216-073-00	RES-CHIP 10K	5% 1/10W
R2213	1-216-089-91	RES-CHIP 47K	5% 1/10W
R2214	1-216-089-91	RES-CHIP 47K	5% 1/10W
R2215	1-216-089-91	RES-CHIP 47K	5% 1/10W
R2216	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R2217	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R2600	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R2601	1-216-655-11	METAL CHIP 1.5K	0.5% 1/10W
R2602	1-208-781-11	METAL CHIP 910	0.5% 1/10W
R2603	1-208-790-11	METAL CHIP 2.2K	0.5% 1/10W
R2604	1-208-790-11	METAL CHIP 2.2K	0.5% 1/10W
R3300	1-216-043-91	RES-CHIP 560	5% 1/10W
R3320	1-216-073-00	RES-CHIP 10K	5% 1/10W
R3323	1-216-025-91	RES-CHIP 100	5% 1/10W
R3334	1-216-025-91	RES-CHIP 100	5% 1/10W
R3374	1-216-295-91	SHORT 0	
		<VARIABLE RESISTOR>	
RV3300	1-238-597-11	RES, ADJ, CARBON 1K	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<TUNER>	
TU101 Δ	8-598-475-01	FSS TUNER BTF-WL411	
TU3301 Δ	8-598-430-20	TUNER, FSS BTF-FA401	
		<CRYSTAL>	
X001	1-567-928-11	VIBLATOR, CERAMIC	

	* A-1299-092-A	A1 BOARD COMPLETE	*****
		<CAPACITOR>	
C8103	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8104	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8105	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8106	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8107	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8108	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8109	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8110	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8111	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8112	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V
C8116	1-164-161-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C8117	1-126-382-11	ELECT 100UF	20.00% 16V
C8118	1-127-532-11	ELECT 47UF	20.00% 6.3V
C8119	1-126-795-11	ELECT 10UF	20.00% 25V
C8120	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8121	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C8122	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C8123	1-127-532-11	ELECT 47UF	20.00% 6.3V
C8124	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8125	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8126	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8127	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C8128	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C8129	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8130	1-126-382-11	ELECT 100UF	20.00% 16V
C8131	1-126-382-11	ELECT 100UF	20.00% 16V
C8132	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C8133	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8134	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8135	1-126-382-11	ELECT 100UF	20.00% 16V
C8136	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8137	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8138	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8139	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8140	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8141	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8142	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C8143	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8144	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8145	1-163-233-11	CERAMIC CHIP 18PF	5.00% 50V

A1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8146	1-107-823-11	CERAMIC CHIP	0.47UF			<FILTER>	
C8147	1-164-004-11	CERAMIC CHIP	0.1UF				
C8150	1-164-004-11	CERAMIC CHIP	0.1UF				
C8155	1-164-004-11	CERAMIC CHIP	0.1UF				
C8161	1-126-382-11	ELECT	100UF				
C8162	1-164-505-11	CERAMIC CHIP	2.2UF			<IC>	
C8163	1-164-004-11	CERAMIC CHIP	0.1UF				
C8166	1-164-004-11	CERAMIC CHIP	0.1UF				
C8167	1-163-021-91	CERAMIC CHIP	0.01UF				
C8168	1-164-004-11	CERAMIC CHIP	0.1UF				
C8197	1-163-021-91	CERAMIC CHIP	0.01UF				
C8198	1-163-021-91	CERAMIC CHIP	0.01UF				
C8199	1-164-004-11	CERAMIC CHIP	0.1UF				
C8200	1-216-295-91	SHORT	0				
C8201	1-216-295-91	SHORT	0				
C8202	1-107-823-11	CERAMIC CHIP	0.47UF			<CHIP CONDUCTOR>	
C8203	1-163-021-91	CERAMIC CHIP	0.01UF				
C8204	1-107-823-11	CERAMIC CHIP	0.47UF				
C8205	1-163-253-11	CERAMIC CHIP	120PF				
C8206	1-163-251-11	CERAMIC CHIP	100PF				
C8207	1-163-251-11	CERAMIC CHIP	100PF				
C8208	1-163-251-11	CERAMIC CHIP	100PF				
C8209	1-163-251-11	CERAMIC CHIP	100PF				
C8210	1-163-251-11	CERAMIC CHIP	100PF				
C8211	1-115-340-11	CERAMIC CHIP	0.22UF				
C8212	1-125-838-91	CERAMIC CHIP	2.2UF				
C8213	1-125-838-91	CERAMIC CHIP	2.2UF				
C8218	1-163-251-11	CERAMIC CHIP	100PF				
		<CONNECTOR>				<RESISTOR>	
CN8100	1-793-867-11	PIN, CONNECTOR (PC BORAD)	10P				
CN8101	1-793-867-11	PIN, CONNECTOR (PC BORAD)	10P				
		<FERRITE BEAD>					
FB8100	1-216-295-91	SHORT	0				
FB8101	1-216-295-91	CONDUCTOR CHIP	0UH				
FB8102	1-216-295-91	SHORT	0				
FB8103	1-216-295-91	SHORT	0				
FB8104	1-414-598-11	INDUCTOR CHIP	0UH				
FB8105	1-216-295-91	SHORT	0				
FB8106	1-414-598-11	INDUCTOR CHIP	0UH				
FB8108	1-414-598-11	INDUCTOR CHIP	0UH				
FB8109	1-414-598-11	INDUCTOR CHIP	0UH				
FB8110	1-414-598-11	INDUCTOR CHIP	0UH				
FB8111	1-414-598-11	INDUCTOR CHIP	0UH				
FB8112	1-414-598-11	INDUCTOR CHIP	0UH				
FB8113	1-414-598-11	INDUCTOR CHIP	0UH				
FB8114	1-414-598-11	INDUCTOR CHIP	0UH				
FB8115	1-414-598-11	INDUCTOR CHIP	0UH				
FB8116	1-414-598-11	INDUCTOR CHIP	0UH				
FB8117	1-414-598-11	INDUCTOR CHIP	0UH				
FB8118	1-414-598-11	INDUCTOR CHIP	0UH				
FB8119	1-414-598-11	INDUCTOR CHIP	0UH				
FB8120	1-414-598-11	INDUCTOR CHIP	0UH				
FB8121	1-414-598-11	INDUCTOR CHIP	0UH				
FL8100	1-234-177-21	FILTER, CHIP EMI					
FL8101	1-234-177-21	FILTER, CHIP EMI					
FL8102	1-234-177-21	FILTER, CHIP EMI					
IC8102	8-759-576-72	IC LF50CDT-TR					
IC8103	8-759-579-68	IC AK4524					
IC8104	8-759-542-87	IC S-80827ANUP-EDQ-T2					
IC8105	8-759-651-20	IC TC9446F-002					
IC8106	8-759-242-70	IC TC7WU04F					
IC8107	8-759-459-69	IC S-80743AN-D7					
JR8102	1-216-295-91	SHORT	0				
JR8103	1-216-295-91	SHORT	0				
		<COIL>					
L8100	1-412-026-11	INDUCTOR CHIP	1UH				
L8101	1-412-026-11	INDUCTOR CHIP	1UH				
L8102	1-412-026-11	INDUCTOR CHIP	1UH				
L8103	1-412-026-11	INDUCTOR CHIP	1UH				
L8104	1-412-026-11	INDUCTOR CHIP	1UH				
L8105	1-412-026-11	INDUCTOR CHIP	1UH				
R8101	1-216-295-91	CONDUCTOR-CHIP					
R8102	1-216-061-00	RES-CHIP	3.3K	5%	1/10W		
R8103	1-216-061-00	RES-CHIP	3.3K	5%	1/10W		
R8106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		
R8107	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		
R8120	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R8121	1-216-025-91	RES-CHIP	100	5%	1/10W		
R8122	1-216-025-91	RES-CHIP	100	5%	1/10W		
R8123	1-216-009-91	RES-CHIP	22	5%	1/10W		
R8124	1-216-009-91	RES-CHIP	22	5%	1/10W		
R8125	1-216-009-91	RES-CHIP	22	5%	1/10W		
R8126	1-216-009-91	RES-CHIP	22	5%	1/10W		
R8127	1-216-025-91	RES-CHIP	100	5%	1/10W		
R8128	1-216-025-91	RES-CHIP	100	5%	1/10W		
R8129	1-216-009-91	RES-CHIP	22	5%	1/10W		
R8131	1-216-295-91	SHORT	0				
R8133	1-216-129-00	RES-CHIP	2.2M	5%	1/10W		
R8134	1-216-295-91	SHORT	0				
R8135	1-216-295-91	SHORT	0				
R8137	1-216-295-91	SHORT	0				
R8138	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R8139	1-216-037-00	RES-CHIP	330	5%	1/10W		
R8140	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R8141	1-216-295-91	SHORT	0				
R8143	1-216-295-91	SHORT	0				

A1 **B3**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8144	1-216-025-91	RES-CHIP 100	5% 1/10W
R8145	1-216-033-00	RES-CHIP 220	5% 1/10W
R8146	1-216-033-00	RES-CHIP 220	5% 1/10W
R8147	1-216-295-91	SHORT 0	
R8148	1-216-295-91	SHORT 0	
R8149	1-216-037-00	RES-CHIP 330	5% 1/10W
R8155	1-216-295-91	SHORT 0	
R8157	1-216-037-00	RES-CHIP 330	5% 1/10W
R8158	1-216-037-00	RES-CHIP 330	5% 1/10W
R8161	1-216-025-91	RES-CHIP 100	5% 1/10W
R8168	1-216-025-91	RES-CHIP 100	5% 1/10W
R8169	1-216-097-91	RES-CHIP 100K	5% 1/10W
R8170	1-216-121-91	RES-CHIP 1M	5% 1/10W
R8171	1-216-025-91	RES-CHIP 100	5% 1/10W
R8172	1-216-025-91	RES-CHIP 100	5% 1/10W
R8173	1-216-025-91	RES-CHIP 100	5% 1/10W
R8200	1-216-073-00	RES-CHIP 10K	5% 1/10W
R8201	1-216-025-91	RES-CHIP 100	5% 1/10W
R8202	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R8203	1-208-782-11	METAL CHIP 1K	0.5% 1/10W
R8204	1-216-073-00	RES-CHIP 10K	5% 1/10W
R8205	1-208-782-11	METAL CHIP 1K	0.5% 1/10W
R8206	1-216-049-91	RES-CHIP 1K	5% 1/10W
R8207	1-216-091-00	RES-CHIP 56K	5% 1/10W
<CRYSTAL>			
X8102	1-781-041-11	VIBRATOR, CRYSTAL	

A-1136-115-A	B3 BOARD COMPLETE *****		
<CAPACITOR>			
C302	1-117-136-11	ELECT CHIP 10UF	20.00% 6.3V
C305	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C306	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C309	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C310	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C312	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C313	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C314	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C315	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C316	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C317	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C318	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C319	1-126-394-11	ELECT CHIP 10UF	20.00% 16V
C320	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C321	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C323	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C324	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C325	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C327	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C330	1-163-038-91	CERAMIC CHIP 0.1UF	25V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C331	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C332	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C333	1-216-295-91	SHORT 0	
C337	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C338	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C339	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C340	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C341	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C346	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C347	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C349	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C350	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C353	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C354	1-117-136-11	ELECT CHIP 10UF	20.00% 6.3V
C355	1-117-136-11	ELECT CHIP 10UF	20.00% 6.3V
C361	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C362	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C363	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C501	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C502	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C503	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C505	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C507	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C509	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C510	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C511	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C512	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C514	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C515	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C516	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C517	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C518	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C519	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C520	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C521	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C522	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C523	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C524	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C525	1-126-394-11	ELECT CHIP 10UF	20.00% 16V
C526	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C527	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C528	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C530	1-216-295-91	SHORT 0	
C532	1-216-295-91	SHORT 0	
C534	1-216-295-91	SHORT 0	
C538	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C539	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C540	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C542	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C543	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C545	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C546	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C548	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C549	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C550	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C551	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C554	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

B3

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C555	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C809	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C556	1-126-392-11	ELECT CHIP	100UF	20.00% 6.3V	C810	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C557	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C811	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C559	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C812	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C560	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C813	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C601	1-126-394-11	ELECT CHIP	10UF	20.00% 16V	C814	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C602	1-126-394-11	ELECT CHIP	10UF	20.00% 16V	C815	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C603	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C816	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C604	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C817	1-163-229-11	CERAMIC CHIP 12PF 5.00% 50V
C605	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C818	1-163-229-11	CERAMIC CHIP 12PF 5.00% 50V
C606	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C819	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C607	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C820	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C608	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C821	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C609	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C822	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C610	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C823	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C611	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C824	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C612	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C825	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C613	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C826	1-164-489-11	CERAMIC CHIP 0.22UF 10.00% 16V
C614	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C827	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C615	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C829	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C616	1-126-396-11	ELECT CHIP	47UF	20.00% 16V	C834	1-163-038-91	CERAMIC CHIP 0.1UF 25V
C617	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C835	1-163-038-91	CERAMIC CHIP 0.1UF 25V
C618	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C837	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C619	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C839	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C620	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C840	1-126-206-11	ELECT CHIP 100UF 20.00% 6.3V
C621	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C841	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C622	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C842	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C623	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C843	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C624	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C844	1-163-038-91	CERAMIC CHIP 0.1UF 25V
C625	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C848	1-163-017-00	CERAMIC CHIP 0.0047UF 10.00% 50V
C626	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C849	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C627	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C850	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C628	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C851	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C629	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C852	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C630	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C853	1-164-182-11	CERAMIC CHIP 0.0033UF 10.00% 50V
C631	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C854	1-163-038-91	CERAMIC CHIP 0.1UF 25V
C632	1-126-206-11	ELECT CHIP	100UF	20.00% 6.3V	C901	1-163-038-91	CERAMIC CHIP 0.1UF 25V
C633	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C902	1-163-038-91	CERAMIC CHIP 0.1UF 25V
C634	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C903	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C635	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C904	1-124-779-00	ELECT CHIP 10UF 20.00% 16V
C636	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C905	1-109-982-11	CERAMIC CHIP 1UF 10.00% 10V
C637	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C906	1-124-779-00	ELECT CHIP 10UF 20.00% 16V
C638	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C907	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C639	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C908	1-163-031-11	CERAMIC CHIP 0.01UF 50V
C640	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C909	1-126-396-11	ELECT CHIP 47UF 20.00% 16V
C642	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C910	1-163-009-11	CERAMIC CHIP 0.001UF 10.00% 50V
C643	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C913	1-163-031-11	CERAMIC CHIP 0.01UF 50V
C644	1-126-398-11	ELECT CHIP	4.7UF	20.00% 35V	C914	1-126-394-11	ELECT CHIP 10UF 20.00% 16V
C645	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C950	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C801	1-124-779-00	ELECT CHIP	10UF	20.00% 16V	C954	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V
C802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V			<CONNECTOR>
C803	1-124-779-00	ELECT CHIP	10UF	20.00% 16V			
C804	1-124-779-00	ELECT CHIP	10UF	20.00% 16V			
C806	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P
C807	1-124-779-00	ELECT CHIP	10UF	20.00% 16V			
C808	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V			



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
		<DIODE>					
D301	8-719-041-97	DIODE MA113-(TX)		IC309	8-759-640-16	IC TC7SET04F(TE85R)	
D302	8-719-041-97	DIODE MA113-(TX)		IC311	8-759-708-05	IC NJM78LO5A	
D501	8-719-422-12	DIODE MA8039		IC501	8-759-447-90	IC TLC5733AIPW	
D601	8-719-073-01	DIODE MA111-(K8).S0		IC504	8-759-430-32	IC TLC2933IPWR	
		<FERRITE BEAD>		IC505	8-759-640-16	IC TC7SET04F(TE85R)	
FB501	1-414-813-11	FERRITE	OUH	IC506	8-759-640-16	IC TC7SET04F(TE85R)	
FB502	1-414-813-11	FERRITE	OUH	IC601	8-752-398-47	IC CXD2090Q	
FB503	1-414-813-11	FERRITE	OUH	IC602	8-759-656-23	IC MB81F161622C-80FN	
FB504	1-414-813-11	FERRITE	OUH	IC603	8-759-295-09	IC TLC2932IPW	
FB601	1-414-553-11	FERRITE	OUH	IC604	8-752-072-94	IC CXA1875AM	
FB801	1-414-553-11	FERRITE	OUH	IC801	8-759-592-40	IC CXD9509Q	
FB802	1-414-553-11	FERRITE	OUH	IC802	8-759-595-53	IC MB81F643242B-10	
		<FILTER>		IC803	8-759-460-29	IC PST9120NL	
FL304	1-234-177-21	FILTER, CHIP EMI		IC901	8-752-367-59	IC CXD2309Q	
FL305	1-234-177-21	FILTER, CHIP EMI		IC902	8-759-677-72	IC MB94918RPF-G-121-BND	
FL306	1-239-558-11	FILTER, CHIP EMI		IC903	8-759-575-71	IC M24C04-WMN6T	
FL501	1-233-877-11	FILTER, LOW PASS		IC904	8-759-349-11	IC PST9145NL	
FL502	1-233-504-21	FILTER, LOW PASS				<COIL>	
FL503	1-233-504-21	FILTER, LOW PASS		L302	1-412-029-11	INDUCTOR CHIP 10UH	
FL504	1-234-177-21	FILTER, CHIP EMI		L303	1-412-029-11	INDUCTOR CHIP 10UH	
FL505	1-234-177-21	FILTER, CHIP EMI		L501	1-412-026-11	INDUCTOR CHIP 1UH	
FL506	1-234-177-21	FILTER, CHIP EMI		L502	1-412-026-11	INDUCTOR CHIP 1UH	
FL508	1-234-177-21	FILTER, CHIP EMI		L503	1-412-026-11	INDUCTOR CHIP 1UH	
FL509	1-234-177-21	FILTER, CHIP EMI		L504	1-412-026-11	INDUCTOR CHIP 1UH	
FL510	1-234-177-21	FILTER, CHIP EMI		L505	1-412-029-11	INDUCTOR CHIP 10UH	
FL511	1-234-177-21	FILTER, CHIP EMI		L506	1-412-026-11	INDUCTOR CHIP 1UH	
FL512	1-234-177-21	FILTER, CHIP EMI		L508	1-412-029-11	INDUCTOR CHIP 10UH	
FL601	1-234-177-21	FILTER, CHIP EMI		L509	1-412-029-11	INDUCTOR CHIP 10UH	
FL602	1-234-177-21	FILTER, CHIP EMI		L511	1-412-026-11	INDUCTOR CHIP 1UH	
FL603	1-234-177-21	FILTER, CHIP EMI		L512	1-412-026-11	INDUCTOR CHIP 1UH	
FL606	1-239-560-11	FILTER, CHIP EMI		L604	1-412-029-11	INDUCTOR CHIP 10UH	
FL801	1-234-177-21	FILTER, CHIP EMI		L605	1-412-029-11	INDUCTOR CHIP 10UH	
FL802	1-234-177-21	FILTER, CHIP EMI				<TRANSISTOR>	
FL803	1-234-177-21	FILTER, CHIP EMI		Q501	8-729-216-22	TRANSISTOR 2SA1162-G	
FL804	1-234-177-21	FILTER, CHIP EMI		Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL805	1-234-177-21	FILTER, CHIP EMI		Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL806	1-234-177-21	FILTER, CHIP EMI		Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL807	1-234-177-21	FILTER, CHIP EMI		Q511	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL808	1-234-177-21	FILTER, CHIP EMI		Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL810	1-234-177-21	FILTER, CHIP EMI		Q516	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL901	1-233-878-11	FILTER, LOW PASS		Q517	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL902	1-233-876-11	FILTER, LOW PASS		Q518	8-729-902-21	TRANSISTOR 2SA1162-G	
FL903	1-233-876-11	FILTER, LOW PASS		Q519	1-801-806-11	TRANSISTOR DTC144EKA	
FL904	1-234-177-21	FILTER, CHIP EMI		Q520	1-801-806-11	TRANSISTOR DTC144EKA	
FL905	1-234-177-21	FILTER, CHIP EMI		Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL906	1-234-177-21	FILTER, CHIP EMI		Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL907	1-234-177-21	FILTER, CHIP EMI		Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<IC>		Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC302	8-752-388-98	IC CXD2303AQ		Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC303	8-752-088-27	IC CXA3266Q-T6		Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q901	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q902	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q903	8-729-216-22	TRANSISTOR 2SA1162-G	

B3

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q904	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R529	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W
Q905	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R530	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W
Q906	1-801-806-11	TRANSISTOR DTC144EKA		R531	1-216-031-00	RES-CHIP	180 5% 1/10W
Q907	8-729-216-22	TRANSISTOR 2SA1162-G		R532	1-216-669-11	METAL CHIP	5.6K 0.5% 1/10W
Q908	8-729-216-22	TRANSISTOR 2SA1162-G		R533	1-216-031-00	RES-CHIP	180 5% 1/10W
Q909	8-729-216-22	TRANSISTOR 2SA1162-G		R536	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
		<RESISTOR>		R537	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
R302	1-216-013-00	RES-CHIP	33 5% 1/10W	R540	1-216-049-91	RES-CHIP	1K 5% 1/10W
R303	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W	R548	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R305	1-216-049-91	RES-CHIP	1K 5% 1/10W	R549	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R306	1-216-658-11	METAL CHIP	2K 0.5% 1/10W	R550	1-216-625-11	METAL CHIP	82 0.5% 1/10W
R309	1-216-009-91	RES-CHIP	22 5% 1/10W	R551	1-216-625-11	METAL CHIP	82 0.5% 1/10W
R310	1-216-009-91	RES-CHIP	22 5% 1/10W	R552	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R311	1-216-009-91	RES-CHIP	22 5% 1/10W	R553	1-216-295-91	SHORT	0
R313	1-216-009-91	RES-CHIP	22 5% 1/10W	R554	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R316	1-216-009-91	RES-CHIP	22 5% 1/10W	R555	1-216-077-91	RES-CHIP	15K 5% 1/10W
R318	1-216-009-91	RES-CHIP	22 5% 1/10W	R557	1-216-049-91	RES-CHIP	1K 5% 1/10W
R319	1-216-049-91	RES-CHIP	1K 5% 1/10W	R558	1-216-025-91	RES-CHIP	100 5% 1/10W
R321	1-216-009-91	RES-CHIP	22 5% 1/10W	R559	1-216-077-91	RES-CHIP	15K 5% 1/10W
R323	1-216-009-91	RES-CHIP	22 5% 1/10W	R560	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R324	1-216-009-91	RES-CHIP	22 5% 1/10W	R561	1-216-043-91	RES-CHIP	560 5% 1/10W
R325	1-216-073-00	RES-CHIP	10K 5% 1/10W	R562	1-216-043-91	RES-CHIP	560 5% 1/10W
R328	1-216-025-91	RES-CHIP	100 5% 1/10W	R563	1-216-043-91	RES-CHIP	560 5% 1/10W
R333	1-216-295-91	SHORT	0	R571	1-216-295-91	SHORT	0
R335	1-216-013-00	RES-CHIP	33 5% 1/10W	R572	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R336	1-216-013-00	RES-CHIP	33 5% 1/10W	R573	1-216-679-11	METAL CHIP	15K 0.5% 1/10W
R337	1-216-097-91	RES-CHIP	100K 5% 1/10W	R574	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R338	1-216-295-91	SHORT	0	R575	1-216-625-11	METAL CHIP	82 0.5% 1/10W
R339	1-216-295-91	SHORT	0	R576	1-216-625-11	METAL CHIP	82 0.5% 1/10W
R347	1-216-295-91	SHORT	0	R577	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R350	1-216-295-91	SHORT	0	R578	1-216-619-11	METAL CHIP	47 0.5% 1/10W
R501	1-216-025-91	RES-CHIP	100 5% 1/10W	R579	1-216-077-91	RES-CHIP	15K 5% 1/10W
R502	1-216-025-91	RES-CHIP	100 5% 1/10W	R580	1-216-295-91	SHORT	0
R503	1-216-295-91	SHORT	0	R582	1-216-041-00	RES-CHIP	470 5% 1/10W
R504	1-216-295-91	SHORT	0	R584	1-216-041-00	RES-CHIP	470 5% 1/10W
R505	1-216-295-91	SHORT	0	R594	1-216-041-00	RES-CHIP	470 5% 1/10W
R506	1-216-009-91	RES-CHIP	22 5% 1/10W	R596	1-216-049-91	RES-CHIP	1K 5% 1/10W
R507	1-216-009-91	RES-CHIP	22 5% 1/10W	R597	1-216-073-00	RES-CHIP	10K 5% 1/10W
R508	1-216-025-91	RES-CHIP	100 5% 1/10W	R598	1-216-025-91	RES-CHIP	100 5% 1/10W
R509	1-216-025-91	RES-CHIP	100 5% 1/10W	R600	1-216-066-00	RES-CHIP	5.1K 5% 1/10W
R510	1-216-043-91	RES-CHIP	560 5% 1/10W	R601	1-216-073-00	RES-CHIP	10K 5% 1/10W
R511	1-216-043-91	RES-CHIP	560 5% 1/10W	R602	1-216-073-00	RES-CHIP	10K 5% 1/10W
R512	1-216-043-91	RES-CHIP	560 5% 1/10W	R603	1-216-073-00	RES-CHIP	10K 5% 1/10W
R513	1-216-043-91	RES-CHIP	560 5% 1/10W	R604	1-216-033-00	RES-CHIP	220 5% 1/10W
R514	1-216-043-91	RES-CHIP	560 5% 1/10W	R605	1-216-295-91	SHORT	0
R515	1-216-043-91	RES-CHIP	560 5% 1/10W	R608	1-216-295-91	SHORT	0
R516	1-216-049-91	RES-CHIP	1K 5% 1/10W	R609	1-216-073-00	RES-CHIP	10K 5% 1/10W
R517	1-216-049-91	RES-CHIP	1K 5% 1/10W	R610	1-216-033-00	RES-CHIP	220 5% 1/10W
R518	1-216-295-91	SHORT	0	R611	1-216-073-00	RES-CHIP	10K 5% 1/10W
R520	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R612	1-216-073-00	RES-CHIP	10K 5% 1/10W
R521	1-216-295-91	SHORT	0	R613	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R523	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R615	1-216-089-91	RES-CHIP	47K 5% 1/10W
R524	1-216-295-91	SHORT	0	R616	1-216-073-00	RES-CHIP	10K 5% 1/10W
R526	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R617	1-216-295-91	SHORT	0
R528	1-216-037-00	RES-CHIP	330 5% 1/10W	R619	1-216-073-00	RES-CHIP	10K 5% 1/10W
				R621	1-216-295-91	SHORT	0
				R622	1-216-295-91	SHORT	0

B3

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R624	1-216-295-91	SHORT	0	R699	1-216-295-91	SHORT	0
R625	1-216-295-91	SHORT	0	R801	1-216-009-91	RES-CHIP	22 5% 1/10W
R626	1-216-073-00	RES-CHIP	10K 5% 1/10W	R802	1-216-009-91	RES-CHIP	22 5% 1/10W
R628	1-216-295-91	SHORT	0	R804	1-216-073-00	RES-CHIP	10K 5% 1/10W
R629	1-216-073-00	RES-CHIP	10K 5% 1/10W	R806	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R631	1-216-295-91	SHORT	0	R807	1-216-637-11	METAL CHIP	270 0.5% 1/10W
R634	1-216-295-91	SHORT	0	R812	1-216-073-00	RES-CHIP	10K 5% 1/10W
R635	1-216-295-91	SHORT	0	R813	1-216-295-91	SHORT	0
R638	1-216-295-91	SHORT	0	R814	1-216-073-00	RES-CHIP	10K 5% 1/10W
R639	1-216-017-91	RES-CHIP	47 5% 1/10W	R815	1-216-073-00	RES-CHIP	10K 5% 1/10W
R640	1-216-009-91	RES-CHIP	22 5% 1/10W	R816	1-216-073-00	RES-CHIP	10K 5% 1/10W
R642	1-216-295-91	SHORT	0	R817	1-216-613-11	METAL CHIP	27 0.5% 1/10W
R643	1-216-295-91	SHORT	0	R818	1-216-295-91	SHORT	0
R645	1-216-295-91	SHORT	0	R820	1-216-651-11	METAL CHIP	1K 0.5% 1/10W
R651	1-216-295-91	SHORT	0	R822	1-216-295-91	SHORT	0
R653	1-216-025-91	RES-CHIP	100 5% 1/10W	R823	1-216-073-00	RES-CHIP	10K 5% 1/10W
R654	1-216-033-00	RES-CHIP	220 5% 1/10W	R824	1-216-073-00	RES-CHIP	10K 5% 1/10W
R655	1-216-295-91	SHORT	0	R825	1-216-621-11	METAL CHIP	56 0.5% 1/10W
R657	1-216-009-91	RES-CHIP	22 5% 1/10W	R826	1-216-641-11	METAL CHIP	390 0.5% 1/10W
R658	1-216-049-91	RES-CHIP	1K 5% 1/10W	R827	1-216-607-11	METAL CHIP	15 0.5% 1/10W
R659	1-216-025-91	RES-CHIP	100 5% 1/10W	R834	1-216-629-11	METAL CHIP	120 0.5% 1/10W
R660	1-216-025-91	RES-CHIP	100 5% 1/10W	R835	1-216-623-11	METAL CHIP	68 0.5% 1/10W
R661	1-216-025-91	RES-CHIP	100 5% 1/10W	R836	1-216-611-11	METAL CHIP	22 0.5% 1/10W
R664	1-216-009-91	RES-CHIP	22 5% 1/10W	R840	1-216-295-91	SHORT	0
R665	1-216-035-00	RES-CHIP	270 5% 1/10W	R844	1-216-009-91	RES-CHIP	22 5% 1/10W
R666	1-216-646-11	METAL CHIP	620 0.5% 1/10W	R845	1-216-009-91	RES-CHIP	22 5% 1/10W
R667	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10W	R846	1-216-009-91	RES-CHIP	22 5% 1/10W
R668	1-216-009-91	RES-CHIP	22 5% 1/10W	R847	1-216-009-91	RES-CHIP	22 5% 1/10W
R670	1-216-295-91	SHORT	0	R848	1-216-009-91	RES-CHIP	22 5% 1/10W
R671	1-216-073-00	RES-CHIP	10K 5% 1/10W	R849	1-216-009-91	RES-CHIP	22 5% 1/10W
R672	1-216-073-00	RES-CHIP	10K 5% 1/10W	R850	1-216-009-91	RES-CHIP	22 5% 1/10W
R673	1-216-073-00	RES-CHIP	10K 5% 1/10W	R851	1-216-009-91	RES-CHIP	22 5% 1/10W
R674	1-216-073-00	RES-CHIP	10K 5% 1/10W	R852	1-216-009-91	RES-CHIP	22 5% 1/10W
R675	1-216-073-00	RES-CHIP	10K 5% 1/10W	R853	1-216-009-91	RES-CHIP	22 5% 1/10W
R676	1-216-073-00	RES-CHIP	10K 5% 1/10W	R854	1-216-009-91	RES-CHIP	22 5% 1/10W
R677	1-216-073-00	RES-CHIP	10K 5% 1/10W	R855	1-216-009-91	RES-CHIP	22 5% 1/10W
R678	1-216-073-00	RES-CHIP	10K 5% 1/10W	R856	1-216-009-91	RES-CHIP	22 5% 1/10W
R679	1-216-073-00	RES-CHIP	10K 5% 1/10W	R857	1-216-009-91	RES-CHIP	22 5% 1/10W
R680	1-216-073-00	RES-CHIP	10K 5% 1/10W	R858	1-216-009-91	RES-CHIP	22 5% 1/10W
R681	1-216-073-00	RES-CHIP	10K 5% 1/10W	R859	1-216-009-91	RES-CHIP	22 5% 1/10W
R682	1-216-073-00	RES-CHIP	10K 5% 1/10W	R860	1-216-009-91	RES-CHIP	22 5% 1/10W
R683	1-216-073-00	RES-CHIP	10K 5% 1/10W	R861	1-216-009-91	RES-CHIP	22 5% 1/10W
R684	1-216-073-00	RES-CHIP	10K 5% 1/10W	R862	1-216-009-91	RES-CHIP	22 5% 1/10W
R685	1-216-073-00	RES-CHIP	10K 5% 1/10W	R863	1-216-009-91	RES-CHIP	22 5% 1/10W
R686	1-216-073-00	RES-CHIP	10K 5% 1/10W	R864	1-216-009-91	RES-CHIP	22 5% 1/10W
R687	1-216-295-91	SHORT	0	R865	1-216-009-91	RES-CHIP	22 5% 1/10W
R688	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R866	1-216-009-91	RES-CHIP	22 5% 1/10W
R689	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R867	1-216-009-91	RES-CHIP	22 5% 1/10W
R690	1-216-295-91	SHORT	0	R868	1-216-009-91	RES-CHIP	22 5% 1/10W
R691	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R869	1-216-009-91	RES-CHIP	22 5% 1/10W
R692	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R870	1-216-009-91	RES-CHIP	22 5% 1/10W
R693	1-216-009-91	RES-CHIP	22 5% 1/10W	R871	1-216-009-91	RES-CHIP	22 5% 1/10W
R694	1-216-295-91	SHORT	0	R872	1-216-009-91	RES-CHIP	22 5% 1/10W
R695	1-216-047-91	RES-CHIP	820 5% 1/10W	R873	1-216-009-91	RES-CHIP	22 5% 1/10W
R696	1-216-049-91	RES-CHIP	1K 5% 1/10W	R874	1-216-009-91	RES-CHIP	22 5% 1/10W
R697	1-216-117-00	RES-CHIP	680K 5% 1/10W	R875	1-216-009-91	RES-CHIP	22 5% 1/10W
R698	1-216-117-00	RES-CHIP	680K 5% 1/10W	R876	1-216-009-91	RES-CHIP	22 5% 1/10W
				R877	1-216-009-91	RES-CHIP	22 5% 1/10W

B3

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R878	1-216-009-91	RES-CHIP	22 5% 1/10W	R953	1-216-295-91	SHORT	0
R879	1-216-009-91	RES-CHIP	22 5% 1/10W	R954	1-216-295-91	SHORT	0
R880	1-216-009-91	RES-CHIP	22 5% 1/10W	R955	1-216-295-91	SHORT	0
R881	1-216-009-91	RES-CHIP	22 5% 1/10W	R956	1-216-089-91	RES-CHIP	47K 5% 1/10W
R882	1-216-009-91	RES-CHIP	22 5% 1/10W	R957	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R883	1-216-009-91	RES-CHIP	22 5% 1/10W	R958	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R884	1-216-009-91	RES-CHIP	22 5% 1/10W	R959	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R885	1-216-009-91	RES-CHIP	22 5% 1/10W	R960	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R886	1-216-009-91	RES-CHIP	22 5% 1/10W	R961	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R887	1-216-009-91	RES-CHIP	22 5% 1/10W	R962	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R888	1-216-009-91	RES-CHIP	22 5% 1/10W	R979	1-216-295-91	SHORT	0
R889	1-216-009-91	RES-CHIP	22 5% 1/10W	R981	1-216-037-00	RES-CHIP	330 5% 1/10W
R890	1-216-009-91	RES-CHIP	22 5% 1/10W	R982	1-216-037-00	RES-CHIP	330 5% 1/10W
R891	1-216-009-91	RES-CHIP	22 5% 1/10W	R983	1-216-089-91	RES-CHIP	47K 5% 1/10W
R892	1-216-009-91	RES-CHIP	22 5% 1/10W	R984	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R893	1-216-009-91	RES-CHIP	22 5% 1/10W	R985	1-216-113-00	RES-CHIP	470K 5% 1/10W
R894	1-216-009-91	RES-CHIP	22 5% 1/10W	R986	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R895	1-216-009-91	RES-CHIP	22 5% 1/10W	R987	1-216-049-91	RES-CHIP	1K 5% 1/10W
R896	1-216-009-91	RES-CHIP	22 5% 1/10W	R988	1-216-033-00	RES-CHIP	220 5% 1/10W
R897	1-216-009-91	RES-CHIP	22 5% 1/10W	R989	1-216-081-00	RES-CHIP	22K 5% 1/10W
R898	1-216-009-91	RES-CHIP	22 5% 1/10W	R990	1-216-113-00	RES-CHIP	470K 5% 1/10W
R899	1-216-073-00	RES-CHIP	10K 5% 1/10W	R991	1-216-295-91	SHORT	0
R901	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R993	1-216-089-91	RES-CHIP	47K 5% 1/10W
R902	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W	R994	1-216-033-00	RES-CHIP	220 5% 1/10W
R903	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10W	R995	1-216-033-00	RES-CHIP	220 5% 1/10W
R904	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R996	1-216-037-00	RES-CHIP	330 5% 1/10W
R905	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R997	1-216-037-00	RES-CHIP	330 5% 1/10W
R906	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R998	1-216-073-00	RES-CHIP	10K 5% 1/10W
R907	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R2801	1-216-629-11	METAL CHIP	120 0.5% 1/10W
R908	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R2802	1-216-623-11	METAL CHIP	68 0.5% 1/10W
R909	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R2803	1-216-603-11	METAL CHIP	10 0.5% 1/10W
R910	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2804	1-216-627-11	METAL CHIP	100 0.5% 1/10W
R911	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2805	1-216-623-11	METAL CHIP	68 0.5% 1/10W
R912	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2806	1-216-611-11	METAL CHIP	22 0.5% 1/10W
R914	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2809	1-216-295-91	SHORT	0
R916	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2810	1-216-295-91	SHORT	0
R923	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2813	1-216-295-91	SHORT	0
R926	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2815	1-216-295-91	SHORT	0
R927	1-216-295-91	SHORT	0	R2817	1-216-295-91	SHORT	0
R929	1-216-025-91	RES-CHIP	100 5% 1/10W	R2818	1-216-295-91	SHORT	0
R930	1-216-025-91	RES-CHIP	100 5% 1/10W	R2820	1-216-295-91	SHORT	0
R931	1-216-041-00	RES-CHIP	470 5% 1/10W	R2822	1-216-295-91	SHORT	0
R933	1-216-025-91	RES-CHIP	100 5% 1/10W	RB001	1-239-409-11	NETWORK RESISTOR (CHIP)	47
R934	1-216-025-91	RES-CHIP	100 5% 1/10W	RB002	1-239-409-11	NETWORK RESISTOR (CHIP)	47
R935	1-216-073-00	RES-CHIP	10K 5% 1/10W	RB003	1-239-409-11	NETWORK RESISTOR (CHIP)	47
R936	1-216-041-00	RES-CHIP	470 5% 1/10W	RB004	1-239-409-11	NETWORK RESISTOR (CHIP)	47
R937	1-216-025-91	RES-CHIP	100 5% 1/10W	RB005	1-239-409-11	NETWORK RESISTOR (CHIP)	47
R938	1-216-025-91	RES-CHIP	100 5% 1/10W	RB006	1-239-409-11	NETWORK RESISTOR (CHIP)	47
R939	1-216-295-91	SHORT	0	RB007	1-239-414-11	NETWORK RESISTOR (CHIP)	150
R940	1-216-295-91	SHORT	0	RB008	1-239-414-11	NETWORK RESISTOR (CHIP)	150
R941	1-216-295-91	SHORT	0	RB009	1-239-414-11	NETWORK RESISTOR (CHIP)	150
R942	1-216-037-00	RES-CHIP	330 5% 1/10W	RB010	1-239-414-11	NETWORK RESISTOR (CHIP)	150
R943	1-216-033-00	RES-CHIP	220 5% 1/10W	RB011	1-239-414-11	NETWORK RESISTOR (CHIP)	150
R944	1-216-295-91	SHORT	0	RB012	1-239-414-11	NETWORK RESISTOR (CHIP)	150
R945	1-216-295-91	SHORT	0	RB013	1-239-621-11	NETWORK RESISTOR (CHIP)	22
R951	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	RB014	1-239-621-11	NETWORK RESISTOR (CHIP)	22
R952	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	RB015	1-239-621-11	NETWORK RESISTOR (CHIP)	22
				RB016	1-239-621-11	NETWORK RESISTOR (CHIP)	22

B3

BC4

REF. NO.	PART NO.	DESCRIPTION	REMARK
RB017	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB018	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB019	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB020	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB021	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB022	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB023	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB024	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB025	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB026	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB027	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB301	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB302	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB701	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB702	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB703	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB704	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB705	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB706	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
<CRYSTAL>			
X801	1-781-649-21	OSCILLATOR, CRYSTAL	
X802	1-781-650-21	VIBRATOR, CRYSTAL	
X901	1-760-014-11	VIBRATOR, CERAMIC	

* A-1136-069-A	BC4 BOARD COMPLETE	*****	
<CAPACITOR>			
C2003	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2005	1-163-131-00	CERAMIC CHIP 390PF	5.00% 50V
C2006	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2010	1-163-102-00	CERAMIC CHIP 24PF	5.00% 50V
C2011	1-163-102-00	CERAMIC CHIP 24PF	5.00% 50V
C2015	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2016	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2017	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2018	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2021	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2024	1-216-295-91	SHORT	0
C2029	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2030	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2031	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2032	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2033	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2034	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2035	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2036	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2037	1-104-664-11	ELECT 47UF	20.00% 16V
C2038	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2039	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2040	1-165-319-11	CERAMIC CHIP 0.1UF	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C2041	1-126-924-11	ELECT 330UF	20.00% 6.3V
C2042	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2044	1-104-664-11	ELECT 47UF	20.00% 16V
C2045	1-163-106-00	CERAMIC CHIP 36PF	5.00% 50V
C2046	1-126-964-11	ELECT 10UF	20.00% 50V
C2047	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2048	1-126-964-11	ELECT 10UF	20.00% 50V
C2049	1-126-960-11	ELECT 1UF	20.00% 50V
C2050	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2051	1-126-964-11	ELECT 10UF	20.00% 50V
C2052	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C2053	1-126-960-11	ELECT 1UF	20.00% 50V
C2054	1-104-664-11	ELECT 47UF	20.00% 16V
C2055	1-104-664-11	ELECT 47UF	20.00% 16V
C2056	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2057	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2058	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2059	1-104-664-11	ELECT 47UF	20.00% 16V
C2060	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2061	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2062	1-104-664-11	ELECT 47UF	20.00% 16V
C2063	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2064	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2065	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2066	1-104-664-11	ELECT 47UF	20.00% 16V
C2067	1-104-664-11	ELECT 47UF	20.00% 16V
C2068	1-104-664-11	ELECT 47UF	20.00% 16V
C2069	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2070	1-104-664-11	ELECT 47UF	20.00% 16V
C2071	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2072	1-163-237-11	CERAMIC CHIP 27PF	5.00% 50V
C2074	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2075	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2078	1-104-664-11	ELECT 47UF	20.00% 16V
C2079	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2080	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2095	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2096	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2097	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
<CONNECTOR>			
CN2001*	1-793-685-11	PIN, CONNECTOR (PC BOARD) 15P	
<FERRITE BEAD>			
FB2002	1-414-234-22	INDUCTOR CHIP 0UH	
FB2008	1-414-234-22	INDUCTOR CHIP 0UH	
FB2009	1-414-234-22	INDUCTOR CHIP 0UH	
FB2010	1-414-234-22	INDUCTOR CHIP 0UH	
FB2011	1-414-234-22	INDUCTOR CHIP 0UH	
FB2012	1-414-234-22	INDUCTOR CHIP 0UH	
FB2014	1-414-234-22	INDUCTOR CHIP 0UH	
FB2015	1-414-234-22	INDUCTOR CHIP 0UH	
FB2016	1-414-234-22	INDUCTOR CHIP 0UH	
FB2017	1-414-234-22	INDUCTOR CHIP 0UH	

BC4

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>					
FL2001	1-239-848-11	FILTER, LOW PASS		R2033	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
FL2002	1-239-848-11	FILTER, LOW PASS		R2034	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
FL2003	1-239-848-11	FILTER, LOW PASS		R2035	1-216-043-91	RES-CHIP 560	5% 1/10W
FL2004	1-239-848-11	FILTER, LOW PASS		R2036	1-216-649-11	METAL CHIP 820	0.5% 1/10W
FL2005	1-233-512-21	FERRITE 37UH		R2037	1-216-044-00	RES-CHIP 620	5% 1/10W
FL2006	1-233-512-21	FERRITE 37UH		R2039	1-216-047-91	RES-CHIP 820	5% 1/10W
FL2007	1-233-512-21	FERRITE 37UH		R2040	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
		<IC>		R2041	1-216-047-91	RES-CHIP 820	5% 1/10W
IC2003	8-759-568-27	IC MSM514265C-60JSDR1		R2042	1-216-075-00	RES-CHIP 12K	5% 1/10W
IC2004	8-759-594-44	IC UPD64082GF-3BA		R2043	1-216-085-00	RES-CHIP 33K	5% 1/10W
IC2005	8-759-431-14	IC PQ3TZ53U		R2044	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
		<COIL>		R2046	1-216-075-00	RES-CHIP 12K	5% 1/10W
L2001	1-410-200-31	INDUCTOR CHIP 4.7UH		R2047	1-216-085-00	RES-CHIP 33K	5% 1/10W
L2004	1-412-058-11	INDUCTOR CHIP 10UH		R2048	1-216-049-91	RES-CHIP 1K	5% 1/10W
L2005	1-412-058-11	INDUCTOR CHIP 10UH		R2049	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
L2006	1-412-058-11	INDUCTOR CHIP 10UH		R2050	1-216-017-91	RES-CHIP 47	5% 1/10W
L2007	1-412-058-11	INDUCTOR CHIP 10UH		R2051	1-216-049-91	RES-CHIP 1K	5% 1/10W
L2008	1-412-058-11	INDUCTOR CHIP 10UH		R2052	1-216-049-91	RES-CHIP 1K	5% 1/10W
		<TRANSISTOR>		R2053	1-216-041-00	RES-CHIP 470	5% 1/10W
Q2002	8-729-216-22	TRANSISTOR 2SA1162-G		R2054	1-216-041-00	RES-CHIP 470	5% 1/10W
Q2003	8-729-216-22	TRANSISTOR 2PB709AR-115		R2055	1-216-017-91	RES-CHIP 47	5% 1/10W
Q2004	8-729-216-22	TRANSISTOR 2SA1162-G		R2056	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
Q2005	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2057	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q2006	8-729-422-33	TRANSISTOR 2SD601-Q-TX		R2058	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
Q2007	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2059	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q2008	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2060	1-216-025-91	RES-CHIP 100	5% 1/10W
Q2009	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2061	1-216-043-91	RES-CHIP 560	5% 1/10W
Q2010	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2062	1-216-105-91	RES-CHIP 220K	5% 1/10W
Q2011	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2063	1-216-089-91	RES-CHIP 47K	5% 1/10W
Q2012	8-729-216-22	TRANSISTOR 2SA1162-G		R2064	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q2013	8-729-216-22	TRANSISTOR 2SA1162-G		R2066	1-216-033-00	RES-CHIP 220	5% 1/10W
Q2014	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2067	1-216-043-91	RES-CHIP 560	5% 1/10W
Q2015	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2069	1-216-645-11	METAL CHIP 560	0.5% 1/10W
Q2016	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2070	1-216-641-11	METAL CHIP 390	0.5% 1/10W
Q2018	8-729-216-22	TRANSISTOR 2SA1162-G		R2071	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
Q2019	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2072	1-216-043-91	RES-CHIP 560	5% 1/10W
		<RESISTOR>		R2073	1-216-049-91	RES-CHIP 1K	5% 1/10W
R2011	1-216-041-00	RES-CHIP 470	5% 1/10W	R2074	1-216-025-91	RES-CHIP 100	5% 1/10W
R2015	1-216-041-00	RES-CHIP 470	5% 1/10W	R2075	1-216-295-91	SHORT 0	
R2019	1-216-295-91	SHORT 0		R2076	1-216-025-91	RES-CHIP 100	5% 1/10W
R2021	1-216-025-91	RES-CHIP 100	5% 1/10W	R2077	1-216-025-91	RES-CHIP 100	5% 1/10W
R2027	1-216-049-91	RES-CHIP 1K	5% 1/10W	R2078	1-216-295-91	SHORT 0	
R2028	1-216-049-91	RES-CHIP 1K	5% 1/10W	R2092	1-216-055-00	RES-CHIP 1.8K	5% 1/10W
R2029	1-216-043-91	RES-CHIP 560	5% 1/10W	R2093	1-216-055-00	RES-CHIP 1.8K	5% 1/10W
R2030	1-216-043-91	RES-CHIP 560	5% 1/10W	R2104	1-216-295-91	SHORT 0	
R2031	1-216-067-00	RES-CHIP 5.6K	5% 1/10W	R2105	1-216-295-91	SHORT 0	
R2032	1-216-067-00	RES-CHIP 5.6K	5% 1/10W	R2106	1-216-295-91	SHORT 0	
				R2107	1-216-295-91	SHORT 0	
				R2108	1-216-049-91	RES-CHIP 1K	5% 1/10W
				R2110	1-216-295-91	SHORT 0	
				R2112	1-216-295-91	SHORT 0	
				R2113	1-216-017-91	RES-CHIP 47	5% 1/10W
				R2115	1-216-049-91	RES-CHIP 1K	5% 1/10W
				R2116	1-216-295-91	SHORT 0	
				R2117	1-216-295-91	SHORT 0	
				R2118	1-216-296-91	SHORT 0	
				R2119	1-216-296-91	SHORT 0	
				R2200	1-216-296-91	SHORT 0	

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

BC4 **C**

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<VARIABLE RESISTOR>	
RV2001	1-223-271-21	RES, ADJ, CERMET 220	
		<CRYSTAL>	
X2001	1-767-606-11	VIBRATOR, CRYSTAL	

* A-1332-005-A	C BOARD MOUNTED		

4-382-854-11	SCREW (M3X10), P, SW (+)		
		<CAPACITOR>	
C9002	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9003	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9004	1-162-114-00	CERAMIC 0.0047UF	2KV
C9005	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9006	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C9007	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C9008	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C9009	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9010	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9011	1-136-207-11	MYLAR 0.047UF	10.00% 250V
C9012	1-136-207-11	MYLAR 0.047UF	10.00% 250V
C9014	1-136-207-11	MYLAR 0.047UF	10.00% 250V
C9015	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9018	1-107-961-91	ELECT 10UF	20.00% 250V
C9019	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C9020	1-107-961-91	ELECT 10UF	20.00% 250V
C9021	1-107-961-91	ELECT 10UF	20.00% 250V
C9022	1-101-004-00	CERAMIC 0.01UF	50V
C9023	1-101-004-00	CERAMIC 0.01UF	50V
C9024	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C9025	1-104-653-11	ELECT 220UF	20.00% 16V
C9026	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C9027	1-101-004-00	CERAMIC 0.01UF	50V
C9028	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C9029	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C9030	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C9031	1-162-114-00	CERAMIC 0.0047UF	2KV
C9032	1-162-116-00	CERAMIC 680PF	10.00% 2KV
C9033	1-107-662-11	ELECT 22UF	20.00% 250V
C9042	1-126-940-11	ELECT 330UF	20.00% 25V
		<CONNECTOR>	
CN9001*	1-564-512-11	PLUG, CONNECTOR 9P	
CN9002	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
CN9003	1-695-915-11	TAB (CONTACT)	
CN9004	1-695-915-11	TAB (CONTACT)	
CN9005*	1-564-506-11	PLUG, CONNECTOR 3P	
CN9007	1-785-879-11	CONNECTOR, ONE TOUCH	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D9002	8-719-400-75	DIODE MA3091	
D9005	8-719-073-01	DIODE MA111-(K8).S0	
D9006	8-719-051-85	DIODE HSS83TD	
D9007	8-719-051-85	DIODE HSS83TD	
D9008	8-719-051-85	DIODE HSS83TD	
D9009	8-719-908-03	DIODE GP08D	
D9010	8-719-110-17	DIODE RD10ES-B2	
		<IC>	
IC9001	8-759-360-83	IC TDA6111Q/N4	
IC9002	8-759-360-83	IC TDA6111Q/N4	
IC9003	8-759-360-83	IC TDA6111Q/N4	
		<JACK>	
J9001	Δ 1-540-071-22	SOCKET, CRT	
		<COIL>	
L9001	1-414-158-11	INDUCTOR 2.2UH	
L9002	1-408-591-11	INDUCTOR 1UH	
L9003	1-408-591-11	INDUCTOR 1UH	
L9004	1-408-591-11	INDUCTOR 1UH	
L9005	1-406-666-21	INDUCTOR 150UH	
L9006	1-412-526-11	INDUCTOR 12UH	
		<NEON LAMP>	
NL9001	1-519-526-11	LAMP, NEON	
		<TRANSISTOR>	
Q9001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q9009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q9010	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q9011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<RESISTOR>	
R9001	1-216-059-00	RES-CHIP 2.7K	5% 1/10W
R9006	1-216-073-00	RES-CHIP 10K	5% 1/10W
R9007	1-208-789-11	METAL CHIP 2K	0.5% 1/10W
R9008	1-216-085-00	RES-CHIP 33K	5% 1/10W
R9012	1-216-049-91	RES-CHIP 1K	5% 1/10W
R9013	1-216-049-91	RES-CHIP 1K	5% 1/10W
R9018	1-216-059-00	RES-CHIP 2.7K	5% 1/10W
R9019	1-216-059-00	RES-CHIP 2.7K	5% 1/10W
R9021	1-216-295-91	SHORT 0	
R9023	1-216-295-91	SHORT 0	
R9026	1-208-789-11	METAL CHIP 2K	0.5% 1/10W
R9031	1-208-789-11	METAL CHIP 2K	0.5% 1/10W
R9033	1-208-808-11	METAL CHIP 12K	0.5% 1/10W
R9034	1-208-800-11	METAL CHIP 5.6K	0.5% 1/10W
R9035	1-208-790-11	METAL CHIP 2.2K	0.5% 1/10W

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK
R9036	1-216-049-91	RES-CHIP 1K	5% 1/10W
R9037	1-240-233-71	METAL OXIDE 100	5% 3W
R9038	1-208-790-11	METAL CHIP 2.2K	0.5% 1/10W
R9039	1-208-790-11	METAL CHIP 2.2K	0.5% 1/10W
R9041	1-216-049-91	RES-CHIP 1K	5% 1/10W
R9042	1-216-049-91	RES-CHIP 1K	5% 1/10W
R9043	1-240-233-71	METAL OXIDE 100	5% 3W
R9044	1-240-233-71	METAL OXIDE 100	5% 3W
R9047	1-202-557-00	SOLID 220	20% 1/2W
R9048	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R9049	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R9050	1-249-424-11	CARBON 3.9K	5% 1/4W
R9051	1-202-557-00	SOLID 220	20% 1/2W
R9052	1-202-557-00	SOLID 220	20% 1/2W
R9053	1-249-424-11	CARBON 3.9K	5% 1/4W
R9054	1-249-424-11	CARBON 3.9K	5% 1/4W
R9055	1-202-884-11	SOLID 820K	20% 1/2W
R9056	1-202-813-00	SOLID 22K	10% 1/2W
R9057	1-202-847-00	SOLID 560K	20% 1/2W
R9058	1-202-884-11	SOLID 820K	20% 1/2W
R9059	1-202-818-00	SOLID 1K	20% 1/2W
R9061	1-202-549-00	SOLID 100	20% 1/2W
R9065	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
R9068	1-216-101-00	RES-CHIP 150K	5% 1/10W
R9069	1-202-549-00	SOLID 100	20% 1/2W
R9070	1-216-037-00	RES-CHIP 330	5% 1/10W
R9071	1-216-037-00	RES-CHIP 330	5% 1/10W
R9072	1-216-037-00	RES-CHIP 330	5% 1/10W
R9073	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
<VARIABLE RESISTOR>			
RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M	
RV9002	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	

* A-1346-902-C	D BOARD COMPLETE	*****	
1-803-614-11	VARISTOR		
* 4-363-146-00	HEAT SINK, V.OUT		
* 4-374-846-01	COVER, CAPACITOR, CAP TYPE		
4-382-854-11	SCREW (M3X10), P, SW (+)		
4-382-854-21	SCREW (M3X14), P, SW (+)		
<CAPACITOR>			
C6601	1-104-665-11	ELECT 100UF	20.00% 25V
C6602	1-129-720-00	FILM 0.033UF	5.00% 630V
C6604	1-126-967-11	ELECT 47UF	20.00% 50V
C6606	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C6607 Δ	1-119-886-51	CERAMIC 470PF	10.00% 250V
C6608 Δ	1-119-886-51	CERAMIC 470PF	10.00% 250V
C6609	1-136-177-00	MYLAR 1UF	5.00% 50V
C6610	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C6611	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C6612	1-126-964-11	ELECT 10UF	20.00% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C6613	1-161-830-00	CERAMIC 0.0047UF	99% 500V
C6614	1-161-830-00	CERAMIC 0.0047UF	500V
C6615	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C6616	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C6617	1-161-830-00	CERAMIC 0.0047UF	500V
C6618	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C6619	1-161-830-00	CERAMIC 0.0047UF	99% 500V
C6620	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C6621	1-131-940-11	ELECT 1200UF	20% 250V
C6622	1-131-940-11	ELECT 1200UF	20% 250V
C6624	1-126-933-11	ELECT 100UF	20.00% 16V
C6625	1-129-718-00	FILM 0.022UF	5.00% 630V
C6626	1-130-029-00	FILM 8200PF	2.00% 50V
C6627	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
C6628	1-104-330-91	CERAMIC 470PF	10.00% 1KV
C6630	1-107-680-91	ELECT 22UF	20.00% 450V
C6631	1-126-964-11	ELECT 10UF	20.00% 50V
C6632	1-126-963-11	ELECT 4.7UF	20.00% 50V
C6633	1-126-967-11	ELECT 47UF	20.00% 50V
C6634	1-126-968-11	ELECT 100UF	20.00% 50V
C6635	1-102-973-00	CERAMIC 100PF	5.00% 50V
C6637	1-109-879-11	CERAMIC 22PF	5.00% 2KV
C6638	1-126-964-11	ELECT 10UF	20.00% 50V
C6639	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C6640	1-104-330-91	CERAMIC 470PF	10.00% 1KV
C6641	1-136-189-00	MYLAR 0.1UF	10.00% 250V
C6642	1-126-964-11	ELECT 10UF	20.00% 50V
C6643	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C6648	1-126-941-11	ELECT 470UF	20.00% 25V
C6649	1-104-665-11	ELECT 100UF	20.00% 25V
C6650	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6651	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6652	1-110-626-11	ELECT 330UF	20.00% 160V
C6653	1-137-368-11	MYLAR 0.0047UF	5.00% 50V
C6654	1-126-936-11	ELECT 3300UF	20.00% 16V
C6655	1-126-942-61	ELECT 1000UF	20.00% 25V
C6656	1-136-165-00	MYLAR 0.1UF	5.00% 50V
C6658	1-126-944-11	ELECT 3300UF	20.00% 25V
C6659	1-126-944-11	ELECT 3300UF	20.00% 25V
C6660	1-126-960-11	ELECT 1UF	20.00% 50V
C6661	1-104-664-11	ELECT 47UF	20.00% 16V
C6662	1-104-664-11	ELECT 47UF	20.00% 16V
C6663	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C6664	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C6665	1-126-964-11	ELECT 10UF	20.00% 50V
C6666	1-137-150-11	MYLAR 0.01UF	5.00% 50V
C6668	1-104-664-11	ELECT 47UF	20.00% 25V
C6669	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6670	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6671	1-129-718-00	FILM 0.022UF	5.00% 630V
C6672	1-104-331-11	CERAMIC 0.0022UF	10.00% 1KV
C6673	1-104-331-11	CERAMIC 0.0022UF	10.00% 1KV
C6674	1-128-527-11	ELECT 330UF	20.00% 25V
C6677	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C6679	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C6680	1-136-157-00	MYLAR 0.022UF	5.00% 50V
C6800	1-126-964-11	ELECT 10UF	20.00% 50V
C6801	1-126-960-11	ELECT 1UF	20.00% 50V

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C6802	1-163-021-00	CERAMIC CHIP	0.01UF	10.00% 50V
C6803	1-163-021-00	CERAMIC CHIP	0.01UF	10.00% 50V
C6804	1-163-021-00	CERAMIC CHIP	0.01UF	10.00% 50V
C6805	1-111-087-11	ELECT	330UF	20.00% 25V
C6806	1-107-933-11	ELECT	100UF	20.00% 100V
C6808	1-137-401-11	MYLAR	0.22UF	10.00% 100V
C6809	1-102-074-00	CERAMIC	0.001UF	10.00% 50V
C6810	1-106-220-00	MYLAR	0.1UF	10.00% 100V
C6811	1-111-087-11	ELECT	330UF	20.00% 25V
C6812	1-130-785-11	MYLAR	0.47UF	10.00% 100V
C6813	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6814	1-115-565-11	CERAMIC CHIP	2.2UF	10.00% 10V
C6815	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C6816	1-137-577-11	FILM	0.068UF	5.00% 400V
C6817	1-126-967-11	ELECT	47UF	20.00% 50V
C6818	1-126-960-11	ELECT	1UF	20.00% 50V
C6819	1-126-960-11	ELECT	1UF	20.00% 50V
C6820	1-102-114-00	CERAMIC	470PF	10.00% 50V
C6821	1-106-383-00	MYLAR	0.047UF	10.00% 200V
C6822	1-102-114-00	CERAMIC	470PF	10.00% 50V
C6823	1-106-383-00	MYLAR	0.047UF	10.00% 200V
C6826	1-102-030-00	CERAMIC	330PF	10.00% 500V
C6827	1-102-030-00	CERAMIC	330PF	10.00% 500V
C6828	1-107-364-11	MYLAR	0.01UF	10.00% 200V
C6829	1-162-115-00	CERAMIC	330PF	10.00% 2KV
C6830	1-117-619-11	FILM	1000PF	3.00% 1.2KV
C6831	1-117-838-21	FILM	8200PF	3.00% 1.5KV
C6832	1-117-842-21	FILM	12000PF	3.00% 1.5KV
C6833	1-127-680-11	FILM MELF	4700PF	2% 100V
C6834	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6835	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6836	1-127-681-11	FILM MELF	10000PF	2% 100V
C6837	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6838	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6839	1-126-933-11	ELECT	100UF	20.00% 16V
C6840	1-126-933-11	ELECT	100UF	20.00% 16V
C6841	1-117-660-81	FILM	0.12UF	5.00% 250V
C6842	1-117-673-11	FILM	1.5UF	5.00% 250V
C6843	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6844	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6845	1-117-664-11	FILM	0.27UF	5.00% 250V
C6846	1-115-514-11	FILM	0.22UF	5.00% 250V
C6847	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C6848	1-113-979-51	FILM	0.047UF	5% 250V
C6849	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6850	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6851	1-107-639-11	ELECT	47UF	20.00% 160V
C6853	1-102-228-00	CERAMIC	470PF	10.00% 500V
C6854	1-126-941-11	ELECT	470UF	20.00% 25V
C6855	1-123-024-21	ELECT	33UF	160V
C6856	1-126-971-11	ELECT	470UF	20.00% 50V
C6857	1-102-228-00	CERAMIC	470PF	10.00% 500V
C6858	1-102-228-00	CERAMIC	470PF	10.00% 500V
C6859	1-162-129-00	CERAMIC	150PF	10.00% 2KV
C6860	1-162-129-00	CERAMIC	150PF	10.00% 2KV
C6862	1-130-202-00	FILM	0.022UF	5.00% 200V
C6863	1-107-906-11	ELECT	10UF	20.00% 50V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C6864	1-129-898-00	FILM	0.0022UF	5.00% 630V
C6865	1-130-202-00	FILM	0.022UF	5.00% 400V
C6866	1-102-030-00	CERAMIC	330PF	10.00% 500V
C6867	1-130-785-11	MYLAR	0.47UF	10.00% 100V
C6868	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C6869	1-128-526-11	ELECT	100UF	20.00% 16V
C6870	1-128-528-11	ELECT	470UF	20.00% 25V
C6871	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C6872	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V
C6874	1-136-165-00	MYLAR	0.1UF	5.00% 50V
C6875	1-104-664-11	ELECT	47UF	20.00% 16V
C6876	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C6877	1-126-964-11	ELECT	10UF	20.00% 50V
C6878	1-126-320-11	ELECT	10UF	20.00% 16V
C6879	1-107-960-11	ELECT	4.7UF	20.00% 160V
C6880	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C6882	1-104-574-11	CERAMIC	0.0047UF	10.00% 2KV
C6883	1-126-965-11	ELECT	22UF	20.00% 50V
C6884	1-115-565-11	CERAMIC CHIP	2.2UF	10.00% 10V
<CONNECTOR>				
CN6602*	Δ 1-508-786-13	PIN, CONNECTOR (5MM PITCH) 2P		
CN6603*	Δ 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P		
CN6604*	Δ 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		
CN6605*	Δ 1-564-513-11	PLUG, CONNECTOR 10P		
CN6606*	1-564-510-11	PLUG, CONNECTOR 7P		
CN6608*	1-564-506-11	PLUG, CONNECTOR 3P		
CN6609*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6610*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6611*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6612*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6613*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6614*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6615*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6616*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6618*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6800	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P		
CN6801*	Δ 1-785-270-12	PIN, DY CONNECTOR (PC BOARD)		
CN6802	1-793-495-11	CONNECTOR, BOARD TO BOARD 50P		
CN6810	1-785-879-11	CONNECTOR, ONE TOUCH		
CN6811*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
CN6812*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		
<DIODE>				
D6601	8-719-911-19	DIODE 1SS119-25		
D6602	8-719-073-01	DIODE MA111-(K8).SO		
D6603	8-719-073-01	DIODE MA111-(K8).SO		
D6604	8-719-073-01	DIODE MA111-(K8).SO		
D6605	8-719-510-53	DIODE D4SB60L		
D6606	8-719-073-01	DIODE MA111-(K8).SO		
D6607	8-719-073-01	DIODE MA111-(K8).SO		
D6608	8-719-073-01	DIODE MA111-(K8).SO		
D6609	8-719-911-19	DIODE 1SS119-25		
D6610	8-719-073-01	DIODE MA111-(K8).SO		

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D6611	8-719-073-01	DIODE MA111-(K8).SO				<IC>	
D6612	8-719-911-55	DIODE U05G		IC6601	8-759-198-31	IC UPC1093J-1-T	
D6613	8-719-911-55	DIODE U05G		IC6602	8-759-103-93	IC UPC393C	
D6614	8-719-112-79	DIODE RD12ES-B1		IC6603	8-749-016-66	IC MCR5152	
D6615	8-719-911-19	DIODE 1SS119-25		IC6604	8-759-468-89	IC TOP209P	
D6616	8-719-911-55	DIODE U05G		IC6606	8-759-450-47	IC BA05T	
D6617	8-719-911-55	DIODE U05G		IC6607	8-749-012-13	IC DM-58	
D6618	8-719-073-01	DIODE MA111-(K8).SO		IC6608	8-759-103-93	IC UPC393C	
D6619	8-719-112-79	DIODE RD12ES-B1		IC6800	8-759-192-71	IC STV9379	
D6621	8-719-063-73	DIODE D1NL20U-TR		IC6801	8-759-450-95	IC LM393N	
D6622	8-719-979-64	DIODE UF4005PKG23		IC6804	8-759-394-36	IC BA09T	
D6623	8-719-059-23	DIODE P6KE200AG23		IC6805	8-759-394-35	IC BA12T	
D6624	8-719-510-02	DIODE D1NS4-TR		IC6806	8-749-013-76	IC PQ6RD83B	
D6625	8-719-110-36	DIODE RD13ES-B2				<CHIP CONDUCTOR>	
D6626	8-719-979-64	DIODE UF4005PKG23		JR6601	1-216-295-91	SHORT	0
D6628	8-719-063-73	DIODE D1NL20U-TR		JR6603	1-216-295-91	SHORT	0
D6631	8-719-050-18	DIODE D4SBL20U		JR6605	1-216-296-91	SHORT	0
D6632	8-719-073-01	DIODE MA111-(K8).SO		JR6606	1-216-296-91	SHORT	0
D6633	8-719-510-12	DIODE D10SC4M-F		JR6607	1-216-295-91	SHORT	0
D6634	8-719-060-88	DIODE D4SBS6		JR6608	1-216-296-91	SHORT	0
D6635	8-719-110-47	DIODE RD18ESB		JR6609	1-216-295-91	SHORT	0
D6636	8-719-911-19	DIODE 1SS119-25		JR6610	1-216-296-91	SHORT	0
D6639	8-719-063-73	DIODE D1NL20U-TR		JR6802	1-216-296-91	SHORT	0
D6640	8-719-110-72	DIODE RD30ESB2		JR6810	1-216-296-91	SHORT	0
D6641	8-719-109-68	DIODE RD6.8ES-B1				<COIL>	
D6642	8-719-911-19	DIODE 1SS119-25		L6601	1-412-525-31	INDUCTOR	10UH
D6643	8-719-979-64	DIODE UF4005PKG23		L6602	1-410-397-21	FERRITE	1.1UH
D6644	8-719-052-92	DIODE D10SBS4F		L6603	1-410-397-21	FERRITE	1.1UH
D6648	8-719-112-79	DIODE RD12ES-B1		L6604	1-412-525-31	INDUCTOR	10UH
D6649	8-719-073-01	DIODE MA111-(K8).SO		L6605	1-412-525-31	INDUCTOR	10UH
D6650	8-719-911-19	DIODE 1SS119-25		L6606	1-412-525-31	INDUCTOR	10UH
D6651	8-719-977-95	DIODE RD5.6SB2-T1		L6607	1-412-519-11	INDUCTOR	3.3UH
D6652	8-719-110-47	DIODE RD18ESB		L6800	1-412-525-31	INDUCTOR	10UH
D6800	8-719-110-03	DIODE RD7.5ESB2		L6801	1-406-986-21	INDUCTOR	3.3UH
D6801	8-719-911-19	DIODE 1SS119-25		L6802	1-416-775-21	INDUCTOR	1MH
D6803	8-719-510-73	DIODE S3L20UF4		L6803	1-406-982-11	INDUCTOR	680UH
D6805	8-719-110-39	DIODE RD15ES-B1		L6804	1-412-519-11	INDUCTOR	3.3UH
D6806	8-719-911-19	DIODE 1SS119-25		L6805	1-412-519-11	INDUCTOR	3.3UH
D6807	8-719-109-68	DIODE RD3.6ES-B1		L6806	1-412-519-11	INDUCTOR	3.3UH
D6808	8-719-914-43	DIODE DAN202K		L6807	1-412-552-11	INDUCTOR	2.2MH
D6809	8-719-908-03	DIODE GP08D		L6808	1-406-674-11	INDUCTOR	3.3MH
D6812	8-719-110-39	DIODE RD15ES-B1				<NEON LAMP>	
D6813	8-719-302-43	DIODE ELIZ		NL6601	1-219-759-11	CARBON	1M 5% 1/2W
D6814	8-719-018-82	DIODE RGP02-20EL-6394				<PHOTO COUPLER>	
D6816	8-719-510-73	DIODE S3L20UF4		PH6601 \triangle	8-749-924-35	PHOTO COUPLER ON3171-R	
D6817	8-719-510-73	DIODE S3L20UF4		PH6602 \triangle	8-749-924-35	PHOTO COUPLER ON3171-R	
D6820	8-719-970-87	DIODE ERA38-06				<FERRITE BEAD>	
D6821	8-719-970-87	DIODE ERA38-06					
D6822	8-719-067-18	DIODE RN4Z					
D6823	8-719-911-19	DIODE 1SS119-25					
D6824	8-719-510-73	DIODE S3L20UF4					
D6825	8-719-914-43	DIODE DAN202K					
D6826	8-719-911-19	DIODE 1SS119-25					
FB6602	1-239-358-21	FILTER, NOISE					
FB6603	1-239-358-21	FILTER, NOISE					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC LINK>		R6608	1-215-489-00	METAL	680K 1% 1/4W
PS6605	1-533-597-41	LINK, IC		R6609	1-215-489-00	METAL	680K 1% 1/4W
PS6606	1-533-597-41	LINK, IC		R6610	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
PS6607	1-533-597-41	LINK, IC		R6611	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
PS6801	1-532-841-21	LINK, IC		R6612	1-215-471-00	METAL	120K 1% 1/4W
		<TRANSISTOR>		R6613	1-215-489-00	METAL	680K 1% 1/4W
Q6601	8-729-119-78	TRANSISTOR 2SC2785-HFE		R6614	1-215-489-00	METAL	680K 1% 1/4W
Q6602	8-729-119-78	TRANSISTOR 2SC2785-HFE		R6615	1-215-489-00	METAL	680K 1% 1/4W
Q6603	8-729-119-76	TRANSISTOR 2SA1175-HFE		R6616	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
Q6604	8-729-119-76	TRANSISTOR 2SA1175-HFE		R6617	1-208-844-11	METAL CHIP	390K 0.5% 1/10W
Q6605	8-729-230-49	TRANSISTOR 2SC2712-YG		R6618	1-215-466-00	METAL	75K 1% 1/4W
Q6606	8-729-140-93	TRANSISTOR 2SB733-34		R6619	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q6608	8-729-200-21	TRANSISTOR 2SC2500-B		R6620	1-208-846-11	METAL CHIP	470K 0.5% 1/10W
Q6609	8-729-029-56	TRANSISTOR DTA144ESA		R6621	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6610	8-729-119-78	TRANSISTOR 2SC2785-HFE		R6622	1-220-797-11	CEMENTED	0.47 5% 10W
Q6611	8-729-029-66	TRANSISTOR DTC114ESA		R6623	1-215-457-00	METAL	33K 1% 1/4W
Q6612	8-729-029-66	TRANSISTOR DTC114ESA		R6624	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
Q6613	8-729-030-02	TRANSISTOR DTC144ESA		R6625	1-208-826-11	METAL CHIP	68K 0.5% 1/10W
Q6614	8-729-119-76	TRANSISTOR 2SA1175-HFE		R6626	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
Q6615	8-729-900-53	TRANSISTOR DTC114EK		R6627	1-208-834-11	METAL CHIP	150K 0.5% 1/10W
Q6616	8-729-029-66	TRANSISTOR DTC114ESA		R6628	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6800	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R6629	1-215-466-00	METAL	75K 1% 1/4W
Q6801	8-729-039-68	TRANSISTOR IRF620		R6630	1-215-489-00	METAL	680K 1% 1/4W
Q6802	8-729-025-19	TRANSISTOR IRFI740G		R6631	1-215-489-00	METAL	680K 1% 1/4W
Q6803	8-729-119-76	TRANSISTOR 2SA1175-HFE		R6632	1-215-489-00	METAL	680K 1% 1/4W
Q6804	8-729-119-78	TRANSISTOR 2SC2785-HFE		R6633	1-215-458-00	METAL	36K 1% 1/4W
Q6805	8-729-140-96	TRANSISTOR 2SD774-34		R6634	1-215-489-00	METAL	680K 1% 1/4W
Q6806	8-729-140-96	TRANSISTOR 2SD774-34		R6635	1-215-489-00	METAL	680K 1% 1/4W
Q6807	8-729-046-18	TRANSISTOR 2SC5480-01		R6636	1-215-489-00	METAL	680K 1% 1/4W
Q6808	8-729-046-18	TRANSISTOR 2SC5480-01		R6637	1-215-463-00	METAL	56K 1% 1/4W
Q6809	8-729-038-83	TRANSISTOR 2SK2251-01-F19		R6638	1-240-876-11	CEMENTED	1 5% 15W
Q6810	8-729-047-60	TRANSISTOR IRFI830G-LF49		R6639	1-240-876-11	CEMENTED	1 5% 15W
Q6811	1-801-806-11	TRANSISTOR DTC144EKA		R6640	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q6812	8-729-043-95	TRANSISTOR 2SC3840(3)		R6641	1-260-131-11	CARBON	470K 5% 1/2W
Q6813	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R6642	1-260-131-11	CARBON	470K 5% 1/2W
Q6814	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6643	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q6815	8-729-045-65	TRANSISTOR 2SA1776TV2Q		R6644	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q6816	8-729-140-96	TRANSISTOR 2SD774-34		R6645	1-202-933-61	FUSIBLE	0.1 10% 1/2W
Q6817	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R6646	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6818	1-801-806-11	TRANSISTOR DTC144EKA		R6647	1-215-864-00	METAL OXIDE	150 5% 1W
Q6819	1-801-806-11	TRANSISTOR DTC144EKA		R6648	1-215-481-00	METAL	330K 1% 1/4W
Q6820	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R6649	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q6821	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6650	1-215-481-00	METAL	330K 1% 1/4W
Q6822	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6651	1-215-430-00	METAL	2.4K 1% 1/4W
Q6823	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R6652	1-215-450-00	METAL	16K 1% 1/4W
		<RESISTOR>		R6653	1-219-776-11	CARBON	2.2M 10% 1/2W
R6500	1-220-797-11	CEMENTED	0.47 5% 10W	R6654	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6600	1-216-295-91	SHORT	0	R6655	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6602	1-249-417-11	CARBON	1K 5% 1/4W	R6656	1-215-481-00	METAL	330K 1% 1/4W
R6603	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R6657	1-247-791-91	CARBON	22 5% 1/4W
R6604	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R6658	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6605	1-215-471-00	METAL	120K 1% 1/4W	R6659	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6606	1-215-466-00	METAL	75K 1% 1/4W	R6660	1-249-389-11	CARBON	4.7 5% 1/4W
R6607	1-215-489-00	METAL	680K 1% 1/4W	R6661	1-215-421-00	METAL	1K 1% 1/4W
				R6662	1-216-381-11	METAL OXIDE	0.22 5% 3W
				R6663	1-216-381-11	METAL OXIDE	0.22 5% 3W
				R6665	1-219-776-11	CARBON	2.2M 10% 1/2W

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

D

REF. NO.	PART NO.	DESCRIPTION		REMARK		REF. NO.	PART NO.	DESCRIPTION		REMARK
R6666	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R6827	1-216-459-00	METAL OXIDE	2.7K	5% 2W
R6667	1-249-413-11	CARBON	470	5%	1/4W	R6828	1-249-417-11	CARBON	1K	5% 1/4W
R6668	1-216-017-91	RES-CHIP	47	5%	1/10W	R6829	1-249-417-11	CARBON	1K	5% 1/4W
R6669	1-249-417-11	CARBON	1K	5%	1/4W	R6830	1-247-764-11	CARBON	10K	5% 1/2W
R6672	1-249-421-11	CARBON	2.2K	5%	1/4W	R6831	1-247-764-11	CARBON	10K	5% 1/2W
R6674	1-249-417-11	CARBON	1K	5%	1/4W	R6832	1-215-477-00	METAL	220K	1% 1/4W
R6679	1-249-437-11	CARBON	47K	5%	1/4W	R6833	1-215-493-00	METAL	1M	1% 1/4W
R6680	1-216-362-11	METAL OXIDE	0.27	5%	2W	R6834	1-216-381-11	METAL OXIDE	0.22	5% 3W
R6681	1-249-429-11	CARBON	10K	5%	1/4W	R6835	1-216-381-11	METAL OXIDE	0.22	5% 3W
R6682	1-249-416-11	CARBON	820	5%	1/4W	R6836	1-215-905-11	METAL OXIDE	10	5% 3W
R6683	1-260-127-11	CARBON	220K	5%	1/2W	R6837	1-215-905-11	METAL OXIDE	10	5% 3W
R6685	1-249-421-11	CARBON	2.2K	5%	1/4W	R6838	1-215-461-00	METAL	47K	1% 1/4W
R6686 Δ	1-247-289-11	METAL	8.2M	5%	1W	R6839	1-249-405-11	CARBON	100	5% 1/4W
R6688	1-249-417-11	CARBON	1K	5%	1/4W	R6841	1-216-434-11	METAL OXIDE	1.8K	5% 1W
R6689	1-249-389-11	CARBON	4.7	5%	1/4W	R6842	1-215-923-00	METAL OXIDE	10K	5% 3W
R6690	1-249-429-11	CARBON	10K	5%	1/4W	R6843	1-216-073-00	RES-CHIP	10K	5% 1/10W
R6691	1-260-131-11	CARBON	470K	5%	1/2W	R6844	1-247-807-31	CARBON	100	5% 1/4W
R6692	1-249-410-11	CARBON	270	5%	1/4W	R6845	1-208-824-11	METAL CHIP	56K	0.5% 1/10W
R6693	1-215-451-00	METAL	18K	1%	1/4W	R6846	1-260-127-11	CARBON	220K	5% 1/2W
R6694	1-215-471-00	METAL	120K	1%	1/4W	R6847	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R6696	1-215-925-11	METAL OXIDE	22K	5%	3W	R6848	1-216-101-00	RES-CHIP	150K	5% 1/10W
R6697	1-249-429-11	CARBON	10K	5%	1/4W	R6851	1-260-288-11	CARBON	0.47	5% 1/2W
R6698	1-249-417-11	CARBON	1K	5%	1/4W	R6852	1-216-345-11	METAL OXIDE	0.47	5% 1W
R6701	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6853	1-260-288-11	CARBON	0.47	5% 1/2W
R6702	1-216-093-91	RES-CHIP	68K	5%	1/10W	R6854	1-215-923-00	METAL OXIDE	10K	5% 3W
R6703	1-216-091-00	RES-CHIP	56K	5%	1/10W	R6855	1-214-898-81	METAL	24K	1% 1/2W
R6704	1-249-377-11	CARBON	0.47	5%	1/4W	R6856	1-215-923-00	METAL OXIDE	10K	5% 3W
R6707	1-249-421-11	CARBON	2.2K	5%	1/4W	R6857	1-215-923-00	METAL OXIDE	10K	5% 3W
R6710	1-217-158-00	METAL	0.47	10%	5W	R6858	1-214-898-81	METAL	24K	1% 1/2W
R6711	1-215-471-00	METAL	120K	1%	1/4W	R6859	1-215-871-11	METAL OXIDE	2.2K	5% 1W
R6712	1-215-451-00	METAL	18K	1%	1/4W	R6860	1-215-923-00	METAL OXIDE	10K	5% 3W
R6713	1-249-423-11	CARBON	3.3K	5%	1/4W	R6861	1-216-295-91	SHORT	0	
R6714	1-249-423-11	CARBON	3.3K	5%	1/4W	R6862	1-216-081-00	RES-CHIP	22K	5% 1/10W
R6715	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6863	1-215-894-11	METAL OXIDE	2.2K	5% 2W
R6716	1-219-759-11	RES(SURGE)	1M	5%	1/2W	R6864	1-216-081-00	RES-CHIP	22K	5% 1/10W
R6800	1-249-429-11	CARBON	10K	5%	1/4W	R6865	1-216-101-00	RES-CHIP	150K	5% 1/10W
R6801	1-249-429-11	CARBON	10K	5%	1/4W	R6866	1-215-431-00	METAL	2.7K	1% 1/4W
R6802	1-249-429-11	CARBON	10K	5%	1/4W	R6867	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R6803	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6868	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R6804	1-208-795-11	METAL CHIP	3.6K	0.5%	1/10W	R6869	1-216-113-00	RES-CHIP	470K	5% 1/10W
R6805	1-215-441-00	METAL	6.8K	1%	1/4W	R6870	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R6806	1-215-434-00	METAL	3.6K	1%	1/4W	R6871	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R6807	1-249-383-11	CARBON	1.5	5%	1/4W	R6872	1-260-125-11	CARBON	150K	5% 1/2W
R6810	1-214-798-21	METAL	1.8	1%	1/2W	R6873	1-260-125-11	CARBON	150K	5% 1/2W
R6811	1-215-913-11	METAL OXIDE	220	5%	3W	R6875	1-249-417-11	CARBON	1K	5% 1/4W
R6812	1-247-843-11	CARBON	3.3K	5%	1/4W	R6876	1-260-288-11	CARBON	0.47	5% 1/2W
R6813	1-214-798-21	METAL	1.8	1%	1/2W	R6877	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R6814	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R6878	1-208-770-11	METAL CHIP	330	0.5% 1/10W
R6815	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W	R6879	1-216-105-91	RES-CHIP	220K	5% 1/10W
R6816	1-214-915-00	METAL	120K	1%	1/2W	R6880	1-215-441-00	METAL	6.8K	1% 1/4W
R6818	1-215-485-00	METAL	470K	1%	1/4W	R6881	1-215-447-00	METAL	12K	1% 1/4W
R6819	1-249-421-11	CARBON	2.2K	5%	1/4W	R6882	1-215-453-00	METAL	22K	1% 1/4W
R6820	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6883	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6822	1-216-461-00	METAL OXIDE	5.6K	5%	2W	R6884	1-249-441-11	CARBON	100K	5% 1/4W
R6823	1-215-895-11	METAL OXIDE	3.3K	5%	2W	R6885	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R6824	1-249-411-11	CARBON	330	5%	1/4W	R6886	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R6825	1-249-411-11	CARBON	330	5%	1/4W	R6887	1-216-081-00	RES-CHIP	22K	5% 1/10W
R6826	1-215-894-11	METAL OXIDE	2.2K	5%	2W	R6888	1-216-089-91	RES-CHIP	47K	5% 1/10W

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

D **DH**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R6889	1-260-125-11	CARBON 150K	5% 1/2W
R6890	1-260-125-11	CARBON 150K	5% 1/2W
R6891	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
R6892	1-216-097-91	RES-CHIP 100K	5% 1/10W
R6893	1-216-085-00	RES-CHIP 33K	5% 1/10W
R6894	1-260-133-11	CARBON 680K	5% 1/2W
R6895	1-216-097-91	RES-CHIP 100K	5% 1/10W
R6896	1-216-089-91	RES-CHIP 47K	5% 1/10W
R6897	1-216-097-91	RES-CHIP 100K	5% 1/10W
R6899	1-216-073-00	RES-CHIP 10K	5% 1/10W
R6900	1-208-810-11	METAL CHIP 15K	0.5% 1/10W
R6901	1-208-810-11	METAL CHIP 15K	0.5% 1/10W
R6902	1-249-441-11	CARBON 100K	5% 1/4W
R6903	1-215-923-00	METAL OXIDE 10K	5% 3W
R6905	1-249-389-11	CARBON 4.7	5% 1/4W
R6906	1-216-079-00	RES-CHIP 18K	5% 1/10W
R6907	1-216-079-00	RES-CHIP 18K	5% 1/10W
<RELAY>			
RY6601	1-515-840-11	RELAY	
RY6602	1-755-357-11	RELAY, AC POWER	
RY6603	1-755-357-11	RELAY, AC POWER	
<TRANSFORMER>			
T6601 Δ	1-431-732-12	TRANSFORMER, CONVERTER (SRT)	
T6602 Δ	1-435-081-11	TRANSFORMER, CONVERTER (PIT)	
T6800	1-429-741-11	TRANSFORMER, DRIVE	
T6801	1-433-934-11	TRANSFORMER, FERRITE (DFT)	
T6802	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
T6803 Δ	1-453-326-11	TRANSFORMER ASSY, FLYBACK (NX-460/J1J4)	
T6804	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
<THERMISTOR>			
TH6601 Δ	1-803-540-11	THERMISTOR	
TH6603	1-803-586-11	THERMISTOR, NTC	
<VARISTOR>			
VD6603	1-803-830-11	VARISTOR (ERZV14D621)	

* A-1343-744-A	DH BOARD MOUNTED		

<CAPACITOR>			
C3801	1-126-964-11	ELECT 10UF	20.00% 50V
C3804	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
C3805	1-126-964-11	ELECT 10UF	20.00% 50V
C3807	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
C3816	1-126-964-11	ELECT 10UF	20.00% 50V

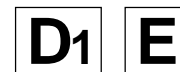
REF. NO.	PART NO.	DESCRIPTION	REMARK
C3819	1-126-960-11	ELECT 1UF	20.00% 50V
C3822	1-136-165-00	MYLAR 0.1UF	5.00% 50V
<CONNECTOR>			
CN3801	1-695-915-11	TAB (CONTACT)	
CN3802*	1-564-509-11	PLUG, CONNECTOR 6P	
CN3803	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D3805	8-719-911-19	DIODE 1SS119-25	
<IC>			
IC3805	8-759-822-38	IC LA6510	
IC3807	1-418-597-11	SENSOR UNIT, MAGNETIC	
<NEON LAMP>			
NL3801	1-576-414-21	GAP, SPARK	
<TRANSISTOR>			
Q3807	8-729-030-02	TRANSISTOR DTC144ESA	
Q3808	8-729-030-02	TRANSISTOR DTC144ESA	
Q3809	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3810	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q3811	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3812	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>			
R3802	1-249-417-11	CARBON 1K	5% 1/4W
R3803	1-249-417-11	CARBON 1K	5% 1/4W
R3804	1-215-444-00	METAL 9.1K	1% 1/4W
R3805	1-249-420-11	CARBON 1.8K	5% 1/4W
R3807	1-215-413-00	METAL 470	1% 1/4W
R3808	1-247-883-00	CARBON 150K	5% 1/4W
R3809	1-247-876-11	CARBON 75K	5% 1/4W
R3810	1-249-425-11	CARBON 4.7K	5% 1/4W
R3811	1-219-510-11	CARBON 470K	5% 1/2W
R3814	1-249-411-11	CARBON 330	5% 1/4W
R3823	1-249-395-11	CARBON 15	5% 1/4W
R3825	1-249-417-11	CARBON 1K	5% 1/4W
R3828	1-249-377-11	CARBON 0.47	5% 1/4W
R3839	1-249-429-11	CARBON 10K	5% 1/4W
R3845	1-249-425-11	CARBON 4.7K	5% 1/4W
R3846	1-249-417-11	CARBON 1K	5% 1/4W
R3847	1-247-807-31	CARBON 100	5% 1/4W
R3848	1-249-417-11	CARBON 1K	5% 1/4W
R3849	1-249-377-11	CARBON 0.47	5% 1/4W
R3852	1-249-441-11	CARBON 100K	5% 1/4W
R3854	1-249-429-11	CARBON 10K	5% 1/4W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1343-777-C	D1	BOARD MOUNTED *****		C6361	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C6362	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V
4-027-606-01		HEAT SINK (TO-220 TYPE)		C6365	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
4-382-854-11		SCREW (M3X10), P. SW (+)		C6376	1-104-664-11	ELECT	47UF 20.00% 16V
		<CAPACITOR>		C6377	1-128-551-11	ELECT	22UF 20.00% 25V
C6101	1-107-714-11	ELECT	10UF 20.00% 50V	C6378	1-115-339-11	CERAMIC CHIP	0.1UF 10.00% 50V
C6102	1-109-953-11	ELECT	2.2UF 20.00% 50V	C6380	1-136-495-11	MYLAR	0.068UF 5.00% 50V
C6103	1-107-714-11	ELECT	10UF 20.00% 50V	C6381	1-126-964-11	ELECT	10UF 20.00% 50V
C6104	1-126-965-11	ELECT	22UF 20.00% 50V	C6385	1-104-664-11	ELECT	47UF 20.00% 25V
C6105	1-104-665-11	ELECT	100UF 20.00% 25V	C6386	1-104-664-11	ELECT	47UF 20.00% 25V
C6106	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V	C6388	1-126-964-11	ELECT	10UF 20.00% 50V
C6108	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C6392	1-104-664-11	ELECT	47UF 20.00% 25V
C6109	1-126-967-11	ELECT	47UF 20.00% 50V	C6409	1-126-963-11	ELECT	4.7UF 20.00% 50V
C6112	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V			<CONNECTOR>	
C6113	1-137-493-11	FILM	0.0047UF 5.00% 630V	CN6100	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P	
C6114	1-107-909-11	ELECT	47UF 20.00% 50V	CN6101*	1-564-525-11	PLUG, CONNECTOR 10P	
C6115	1-163-005-11	CERAMIC CHIP	470PF 10.00% 50V	CN6103*	1-564-518-11	PLUG, CONNECTOR 3P	
C6116	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V	CN6104*	1-564-523-11	PLUG, CONNECTOR 8P	
C6117	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V			<DIODE>	
C6118	1-107-909-11	ELECT	47UF 20.00% 16V	D6101	8-719-510-02	DIODE D1NS4	
C6120	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V	D6102	8-719-510-02	DIODE D1NS4	
C6121	1-126-963-11	ELECT	4.7UF 20.00% 50V	D6103	8-719-063-73	DIODE D1NL20U-TR	
C6122	1-126-967-11	ELECT	47UF 20.00% 50V	D6104	8-719-911-19	DIODE 1SS119-25	
C6123	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	D6105	8-719-109-60	DIODE RD2.7ESB2	
C6124	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	D6106	8-719-510-02	DIODE D1NS4	
C6125	1-104-664-11	ELECT	47UF 20.00% 16V	D6107	8-719-911-19	DIODE 1SS119-25	
C6127	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	D6108	8-719-911-19	DIODE 1SS119-25	
C6128	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	D6110	8-719-987-87	DIODE ERA82009	
C6129	1-126-964-11	ELECT	10UF 20.00% 50V	D6133	8-719-911-19	DIODE 1SS119-25	
C6131	1-126-964-11	ELECT	10UF 20.00% 50V	D6134	8-719-911-19	DIODE 1SS119-25	
C6133	1-137-194-81	MYLAR	0.47UF 5.00% 50V	D6201	8-719-109-88	DIODE RD5.6ES-B1	
C6136	1-129-716-00	FILM	0.015UF 5.00% 630V	D6210	8-719-109-88	DIODE RD5.6ES-T1B	
C6138	1-126-968-11	ELECT	100UF 20.00% 50V	D6350	8-719-914-43	DIODE DAN202K	
C6139	1-107-902-11	ELECT	1UF 20.00% 50V	D6351	8-719-914-43	DIODE DAN202K	
C6140	1-126-960-11	ELECT	1UF 20.00% 50V	D6355	8-719-914-43	DIODE DAN202K	
C6201	1-126-967-11	ELECT	47UF 20.00% 50V	D6404	8-719-914-43	DIODE DAN202K	
C6202	1-126-967-11	ELECT	47UF 20.00% 50V			<IC>	
C6203	1-126-967-11	ELECT	47UF 20.00% 50V	IC6101	8-752-053-21	IC CXA1211M	
C6204	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	IC6102	8-759-450-95	IC LM393N	
C6205	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	IC6103	8-759-450-95	IC LM393N	
C6206	1-126-964-11	ELECT	10UF 20.00% 50V	IC6104	8-759-803-42	IC LA6500-FA	
C6207	1-126-967-11	ELECT	47UF 20.00% 50V	IC6105	8-759-450-95	IC LM393N	
C6208	1-126-967-11	ELECT	47UF 20.00% 50V	IC6106	8-759-198-31	IC UPC1093J-1-T	
C6209	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V	IC6108	8-759-567-08	IC MB88141APF-ER	
C6210	1-163-009-11	CERAMIC CHIP	0.001UF 10.00% 50V	IC6201	8-759-183-37	IC CA0007AD	
C6211	1-126-964-11	ELECT	10UF 20.00% 50V	IC6202	8-759-135-80	IC UPC358C	
C6212	1-164-222-11	CERAMIC CHIP	0.22UF 25V	IC6351	8-759-450-95	IC LM393N	
C6350	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	IC6353	8-759-231-53	IC TA7805S	
C6351	1-126-967-11	ELECT	47UF 20.00% 50V	IC6354	8-759-325-48	IC CA0005AD	
C6353	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	IC6356	8-759-822-38	IC LA6510	
C6355	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C6356	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V				
C6358	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				

D1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CHIP CONDUCTOR>							
JR6101	1-216-296-91	SHORT	0	R6113	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
JR6102	1-216-296-91	SHORT	0	R6114	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
JR6103	1-216-296-91	SHORT	0	R6115	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
JR6104	1-216-295-91	SHORT	0	R6116	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
JR6108	1-216-296-91	SHORT	0	R6117	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
JR6109	1-216-296-91	SHORT	0	R6118	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
JR6110	1-216-296-91	SHORT	0	R6119	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
JR6111	1-216-296-91	SHORT	0	R6120	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
JR6112	1-216-296-91	SHORT	0	R6121	1-216-490-11	METAL OXIDE	39K 5% 3W
JR6113	1-216-296-91	SHORT	0	R6122	1-216-295-91	SHORT	0
JR6114	1-216-296-91	SHORT	0	R6123	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
JR6115	1-216-296-91	SHORT	0	R6124	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
<COIL>							
L6101	1-416-920-11	INDUCTOR	10MH	R6125	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
L6102	1-406-989-21	INDUCTOR	10MH	R6126	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
<IC LINK>							
PS6101	1-533-589-31	LINK, IC		R6127	1-208-832-11	METAL CHIP	120K 0.5% 1/10W
<TRANSISTOR>							
Q6103	8-729-046-33	TRANSISTOR IRF720-LF49		R6128	1-208-838-91	METAL CHIP	220K 0.5% 1/10W
Q6104	8-729-230-49	TRANSISTOR 2SC2712-YG		R6129	1-216-353-00	METAL OXIDE	2.2 5% 1W
Q6105	8-729-230-49	TRANSISTOR 2SC2712-YG		R6130	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6131	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
Q6107	8-729-140-93	TRANSISTOR 2SB733-34		R6133	1-208-812-11	METAL CHIP	18K 0.5% 1/10W
Q6108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6134	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
Q6118	8-729-230-49	TRANSISTOR 2SC2712-YG		R6135	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6124	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R6136	1-260-099-11	CARBON	1K 5% 1/2W
Q6125	8-729-230-49	TRANSISTOR 2SC2712-YG		R6137	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q6126	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6138	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
Q6128	8-729-023-22	TRANSISTOR 2SD2114K		R6139	1-208-797-11	METAL CHIP	4.3K 0.5% 1/10W
Q6201	8-729-230-49	TRANSISTOR 2SC2712-YG		R6140	1-216-077-91	RES-CHIP	15K 5% 1/10W
Q6202	8-729-230-49	TRANSISTOR 2SC2712-YG		R6141	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
Q6203	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R6142	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
Q6350	8-729-230-49	TRANSISTOR 2SC2712-YG		R6143	1-208-792-11	METAL CHIP	2.7K 0.5% 1/10W
Q6356	8-729-230-49	TRANSISTOR 2SC2712-YG		R6144	1-208-832-11	METAL CHIP	120K 0.5% 1/10W
Q6405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6146	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
Q6455	8-729-230-49	TRANSISTOR 2SC2712-YG		R6149	1-208-828-11	METAL CHIP	82K 0.5% 1/10W
R6101	1-216-025-91	RES-CHIP	100 5% 1/10W	R6150	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6103	1-216-049-91	RES-CHIP	1K 5% 1/10W	R6151	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6104	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6152	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6105	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R6153	1-216-105-91	RES-CHIP	220K 5% 1/10W
R6106	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R6154	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6107	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6155	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6108	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6156	1-216-077-91	RES-CHIP	15K 5% 1/10W
R6109	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6157	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6110	1-216-295-91	SHORT	0	R6158	1-216-689-11	RES-CHIP	39K 5% 1/10W
R6112	1-208-824-11	METAL CHIP	56K 0.5% 1/10W	R6159	1-208-802-11	METAL CHIP	6.8K 0.5% 1/10W
R6170	1-216-037-00	RES-CHIP	330 5% 1/10W	R6161	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R6171	1-216-113-00	RES-CHIP	470K 5% 1/10W	R6162	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6172	1-216-105-91	RES-CHIP	220K 5% 1/10W	R6168	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6173	1-216-097-91	RES-CHIP	100K 5% 1/10W	R6169	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R6174	1-208-812-11	METAL CHIP	18K 0.5% 1/10W	R6170	1-216-037-00	RES-CHIP	330 5% 1/10W
R6175	1-208-816-11	METAL CHIP	27K 0.5% 1/10W	R6171	1-216-113-00	RES-CHIP	470K 5% 1/10W
R6176	1-249-389-11	CARBON	4.7 5% 1/4W	R6172	1-216-105-91	RES-CHIP	220K 5% 1/10W
R6177	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6173	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6178	1-249-389-11	CARBON	4.7 5% 1/4W	R6174	1-208-812-11	METAL CHIP	18K 0.5% 1/10W
R6179	1-216-101-00	RES-CHIP	150K 5% 1/10W	R6175	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R6180	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6176	1-249-389-11	CARBON	4.7 5% 1/4W



REF. NO.	PART NO.	DESCRIPTION	REMARK
R6181	1-216-105-91	RES-CHIP	220K 5% 1/10W
R6190	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6192	1-216-295-91	SHORT	0
R6195	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
R6196	1-249-377-11	CARBON	0.47 5% 1/4W
R6200	1-208-836-11	METAL CHIP	180K 0.5% 1/10W
R6201	1-247-750-11	CARBON	680 5% 1/2W
R6202	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R6203	1-215-906-11	METAL OXIDE	15 5% 3W
R6204	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6206	1-216-033-00	RES-CHIP	220 5% 1/10W
R6207	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W
R6208	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6209	1-216-099-00	RES-CHIP	120K 5% 1/10W
R6210	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6211	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6212	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6213	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6215	1-208-836-11	METAL CHIP	180K 0.5% 1/10W
R6216	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6217	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6218	1-208-836-11	METAL CHIP	180K 0.5% 1/10W
R6219	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R6220	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6221	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6222	1-216-295-91	SHORT	0
R6223	1-216-295-91	SHORT	0
R6224	1-208-824-11	METAL CHIP	56K 0.5% 1/10W
R6225	1-208-824-11	METAL CHIP	56K 0.5% 1/10W
R6226	1-216-033-00	RES-CHIP	220 5% 1/10W
R6227	1-216-033-00	RES-CHIP	220 5% 1/10W
R6324	1-216-017-91	RES-CHIP	47 5% 1/10W
R6325	1-216-017-91	RES-CHIP	47 5% 1/10W
R6326	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R6327	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R6350	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R6357	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6359	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6360	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6361	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6367	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R6368	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6375	1-216-041-00	RES-CHIP	470 5% 1/10W
R6378	1-215-473-00	METAL	150K 1% 1/4W
R6379	1-216-295-91	SHORT	0
R6382	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R6385	1-216-295-91	SHORT	0
R6386	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R6391	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6394	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R6413	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6416	1-208-808-11	METAL CHIP	12K 0.5% 1/10W
R6418	1-216-113-00	RES-CHIP	470K 5% 1/10W
R6419	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6420	1-216-111-00	RES-CHIP	390K 5% 1/10W
R6433	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6438	1-215-437-00	METAL	4.7K 1% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R6442	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6456	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6457	1-208-820-11	METAL CHIP	39K 0.5% 1/10W
R6458	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6459	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
<VARIABLE RESISTOR>			
RV6100	1-241-785-11	RES, ADJ, CERMET	10K

* A-1343-778-E		E BOARD MOUNTED	*****
<CAPACITOR>			
C4301	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4302	1-164-161-11	CERAMIC CHIP	0.0022UF 10.00% 50V
C4308	1-126-960-11	ELECT	1UF 20.00% 50V
C4309	1-164-489-11	CERAMIC CHIP	0.22UF 10.00% 16V
C4316	1-104-664-11	ELECT	47UF 20.00% 25V
C4317	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4318	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4319	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4320	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4321	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4322	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4324	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4325	1-163-093-00	CERAMIC CHIP	10PF 5.00% 50V
C4326	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4327	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4328	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4329	1-126-963-11	ELECT	4.7UF 20.00% 50V
C4330	1-136-244-11	FILM	0.1UF 5.00% 50V
C4331	1-126-959-11	ELECT	0.47UF 20.00% 50V
C4332	1-136-161-00	MYLAR	0.047UF 5.00% 50V
C4333	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4334	1-126-967-11	ELECT	47UF 20.00% 50V
C4336	1-126-967-11	ELECT	47UF 20.00% 50V
C4338	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4339	1-163-235-11	CERAMIC CHIP	22PF 5.00% 50V
C4340	1-126-967-11	ELECT	47UF 20.00% 50V
C4341	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V
C4342	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C4343	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4344	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
C4345	1-126-967-11	ELECT	47UF 20.00% 50V
C4346	1-164-346-11	CERAMIC CHIP	1UF 16V
C4347	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4348	1-164-346-11	CERAMIC CHIP	1UF 16V
C4349	1-164-346-11	CERAMIC CHIP	1UF 16V
C4350	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C4351	1-163-009-11	CERAMIC CHIP	0.001UF 10.00% 50V
C4352	1-126-967-11	ELECT	47UF 20.00% 50V
C4353	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V
C4354	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C4355	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4313	8-719-401-63	DIODE MA3062M-TX	
C4356	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4314	8-719-914-43	DIODE DAN202K	
C4357	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4800	8-719-914-43	DIODE DAN202K	
C4358	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4801	8-719-914-43	DIODE DAN202K	
C4359	1-164-161-11	CERAMIC CHIP	0.0022UF 10.00% 50V	D4802	8-719-109-81	DIODE RD4.7ESB2	
C4360	1-126-963-11	ELECT	4.7UF 20.00% 50V	D4803	8-719-911-19	DIODE 1SS119-25	
C4362	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4804	8-719-911-19	DIODE 1SS119-25	
C4363	1-126-967-11	ELECT	47UF 20.00% 50V	D4807	8-719-914-43	DIODE DAN202K	
C4364	1-126-967-11	ELECT	47UF 20.00% 50V	D4808	8-719-914-43	DIODE DAN202K	
C4366	1-104-760-11	CERAMIC CHIP	0.047UF 10.00% 50V	D4809	8-719-914-43	DIODE DAN202K	
C4367	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4811	1-249-381-11	CARBON 1	5% 1/4W
C4369	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4812	8-719-911-19	DIODE 1SS119-25	
C4370	1-126-967-11	ELECT	47UF 20.00% 50V	D4813	8-719-914-43	DIODE DAN202K	
C4371	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D4814	8-719-914-43	DIODE DAN202K	
C4378	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	D4815	8-719-109-54	DIODE RD2.2ES-B2	
C4800	1-136-165-00	MYLAR	0.1UF 5.00% 50V	D4816	8-719-911-19	DIODE 1SS119-25	
C4801	1-136-161-00	MYLAR	0.047UF 5.00% 50V	D4900	8-719-911-19	DIODE 1SS119-25	
C4802	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V			<FERRITE BEAD>	
C4803	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C4804	1-126-967-11	ELECT	47UF 20.00% 50V				
C4805	1-126-964-11	ELECT	10UF 20.00% 50V	FB4387	1-216-295-91	SHORT 0	
C4806	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V	FB4388	1-216-295-91	SHORT 0	
C4808	1-136-165-00	MYLAR	0.1UF 5.00% 50V	FB4389	1-216-295-91	SHORT 0	
C4809	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V				
C4811	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V			<IC>	
C4812	1-126-967-11	ELECT	47UF 20.00% 50V	IC4301	8-752-090-87	IC CXA2100AQ	
C4813	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	IC4800	8-759-450-95	IC LM393N	
C4814	1-126-967-11	ELECT	47UF 20.00% 50V	IC4801	8-759-450-95	IC LM393N	
C4817	1-126-967-11	ELECT	47UF 20.00% 50V	IC4802	8-759-638-79	IC NJM3404AD-W	
C4818	1-107-906-11	ELECT	10UF 20.00% 50V	IC4803	8-759-135-80	IC UPC358C	
C4820	1-107-909-11	ELECT	47UF 20.00% 50V			<CHIP CONDUCTOR>	
C4821	1-107-909-11	ELECT	47UF 20.00% 16V	JR4301	1-216-295-91	SHORT 0	
C4822	1-107-909-11	ELECT	47UF 20.00% 16V			<COIL>	
C4823	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V				
C4824	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V				
C4825	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V	L4301	1-412-029-11	INDUCTOR CHIP 10UH	
C4833	1-126-964-11	ELECT	10UF 20.00% 50V	L4302	1-412-029-11	INDUCTOR CHIP 10UH	
C4834	1-126-933-11	ELECT	100UF 20.00% 16V	L4303	1-412-029-11	INDUCTOR CHIP 10UH	
C4835	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	L4304	1-412-029-11	INDUCTOR CHIP 10UH	
C4836	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	L4305	1-412-029-11	INDUCTOR CHIP 10UH	
C4837	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V	L4306	1-412-029-11	INDUCTOR CHIP 10UH	
C4905	1-126-964-11	ELECT	10UF 20.00% 50V	L4308	1-412-031-11	INDUCTOR CHIP 47UH	
C4906	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	L4309	1-412-031-11	INDUCTOR CHIP 47UH	
		<CONNECTOR>		L4311	1-412-002-31	INDUCTOR CHIP 4.7UH	
CN4101	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P				<TRANSISTOR>	
CN4500*	1-564-512-11	PLUG, CONNECTOR 9P		Q4301	8-729-230-49	TRANSISTOR 2SC2712-YG	
CN4502*	1-564-506-11	PLUG, CONNECTOR 3P		Q4302	8-729-216-22	TRANSISTOR 2SA1162-G	
		<DIODE>		Q4303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D4303	8-719-109-72	DIODE RD3.9ES-B2		Q4304	8-729-230-49	TRANSISTOR 2SC2712-YG	
D4304	8-719-977-22	DIODE DTZ9.1		Q4307	8-729-216-22	TRANSISTOR 2SA1162-G	
D4305	8-719-977-22	DIODE DTZ9.1					
D4311	8-719-914-43	DIODE DAN202K		Q4308	8-729-216-22	TRANSISTOR 2SA1162-G	
D4312	8-719-914-43	DIODE DAN202K		Q4310	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q4315	1-801-806-11	TRANSISTOR DTC144EKA	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q4316	8-729-230-49	TRANSISTOR 2SC2712-YG		R4321	1-216-298-00	RES-CHIP	2.2 5% 1/10W
Q4317	8-729-900-53	TRANSISTOR DTC114EK		R4323	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
Q4319	8-729-216-22	TRANSISTOR 2SA1162-G		R4324	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
Q4320	8-729-216-22	TRANSISTOR 2SA1162-G		R4325	1-208-818-11	METAL CHIP	33K 0.5% 1/10W
Q4321	8-729-216-22	TRANSISTOR 2SA1162-G		R4326	1-208-826-11	METAL CHIP	68K 0.5% 1/10W
Q4322	8-729-216-22	TRANSISTOR 2SA1162-G		R4327	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
Q4800	8-729-230-49	TRANSISTOR 2SC2712-YG		R4329	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
Q4801	8-729-230-49	TRANSISTOR 2SC2712-YG		R4330	1-216-089-91	RES-CHIP	47K 5% 1/10W
Q4802	8-729-230-49	TRANSISTOR 2SC2712-YG		R4331	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4803	8-729-230-49	TRANSISTOR 2SC2712-YG		R4332	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4804	8-729-230-49	TRANSISTOR 2SC2712-YG		R4333	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4805	8-729-230-49	TRANSISTOR 2SC2712-YG		R4334	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q4806	8-729-230-49	TRANSISTOR 2SC2712-YG		R4335	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4807	8-729-230-49	TRANSISTOR 2SC2712-YG		R4336	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4808	8-729-216-22	TRANSISTOR 2SA1162-G		R4337	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4809	8-729-216-22	TRANSISTOR 2SA1162-G		R4338	1-216-041-00	RES-CHIP	470 5% 1/10W
Q4810	8-729-230-49	TRANSISTOR 2SC2712-YG		R4339	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
Q4811	8-729-230-49	TRANSISTOR 2SC2712-YG		R4341	1-216-295-91	SHORT	0
Q4812	8-729-216-22	TRANSISTOR 2SA1162-G		R4343	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4813	8-729-216-22	TRANSISTOR 2SA1162-G		R4344	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4814	8-729-216-22	TRANSISTOR 2SA1162-G		R4345	1-216-075-00	RES-CHIP	12K 5% 1/10W
Q4815	8-729-216-22	TRANSISTOR 2SA1162-G		R4346	1-208-812-11	METAL CHIP	18K 0.5% 1/10W
Q4816	8-729-216-22	TRANSISTOR 2SA1162-G		R4347	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4817	8-729-230-49	TRANSISTOR 2SC2712-YG		R4348	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4818	8-729-216-22	TRANSISTOR 2SA1162-G		R4349	1-216-041-00	RES-CHIP	470 5% 1/10W
Q4820	8-729-230-49	TRANSISTOR 2SC2712-YG		R4350	1-216-025-91	RES-CHIP	100 5% 1/10W
Q4821	1-801-806-11	TRANSISTOR DTC144EKA		R4351	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q4822	8-729-230-49	TRANSISTOR 2SC2712-YG		R4352	1-216-041-00	RES-CHIP	470 5% 1/10W
Q4823	8-729-216-22	TRANSISTOR 2SA1162-G		R4353	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
Q4824	8-729-216-22	TRANSISTOR 2SA1162-G		R4354	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
Q4825	8-729-230-49	TRANSISTOR 2SC2712-YG		R4355	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q4826	8-729-230-49	TRANSISTOR 2SC2712-YG		R4356	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q4906	8-729-422-33	TRANSISTOR 2SD601-Q-TX		R4357	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q4907	8-729-216-22	TRANSISTOR 2SA1162-G		R4358	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
Q4908	8-729-216-22	TRANSISTOR 2SA1162-G		R4359	1-216-041-00	RES-CHIP	470 5% 1/10W
Q4909	8-729-422-33	TRANSISTOR 2SD601-Q-TX		R4360	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q4910	8-729-216-22	TRANSISTOR 2SA1162-G		R4361	1-216-133-00	RES-CHIP	3.3M 5% 1/10W
		<RESISTOR>		R4363	1-216-025-91	RES-CHIP	100 5% 1/10W
R4301	1-216-025-91	RES-CHIP	100 5% 1/10W	R4365	1-216-025-91	RES-CHIP	100 5% 1/10W
R4302	1-216-025-91	RES-CHIP	100 5% 1/10W	R4366	1-216-025-91	RES-CHIP	100 5% 1/10W
R4303	1-216-025-91	RES-CHIP	100 5% 1/10W	R4367	1-216-025-91	RES-CHIP	100 5% 1/10W
R4304	1-216-025-91	RES-CHIP	100 5% 1/10W	R4369	1-216-025-91	RES-CHIP	100 5% 1/10W
R4305	1-216-025-91	RES-CHIP	100 5% 1/10W	R4370	1-216-049-91	RES-CHIP	1K 5% 1/10W
R4306	1-216-025-91	RES-CHIP	100 5% 1/10W	R4372	1-216-049-91	RES-CHIP	1K 5% 1/10W
R4307	1-216-025-91	RES-CHIP	100 5% 1/10W	R4373	1-216-295-91	SHORT	0
R4308	1-216-295-91	SHORT	0	R4374	1-216-025-91	RES-CHIP	100 5% 1/10W
R4310	1-216-295-91	SHORT	0	R4375	1-216-049-91	RES-CHIP	1K 5% 1/10W
R4312	1-216-295-91	SHORT	0	R4376	1-216-025-91	RES-CHIP	100 5% 1/10W
R4313	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R4377	1-216-049-91	RES-CHIP	1K 5% 1/10W
R4314	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R4380	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4316	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R4381	1-208-854-11	METAL CHIP	1M 0.5% 1/10W
R4317	1-216-081-00	RES-CHIP	22K 5% 1/10W	R4382	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4318	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W	R4383	1-216-079-00	RES-CHIP	18K 5% 1/10W
R4319	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W	R4384	1-216-025-91	RES-CHIP	100 5% 1/10W
R4320	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W	R4387	1-216-295-91	SHORT	0
				R4388	1-216-295-91	SHORT	0
				R4389	1-216-295-91	SHORT	0
				R4395	1-216-295-91	SHORT	0



REF. NO.	PART NO.	DESCRIPTION		REMARK
R4396	1-216-295-91	SHORT	0	
R4397	1-216-295-91	SHORT	0	
R4399	1-216-025-91	RES-CHIP	100	5% 1/10W
R4401	1-216-105-91	RES-CHIP	220K	5% 1/10W
R4408	1-216-025-91	RES-CHIP	100	5% 1/10W
R4409	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4410	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4411	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4412	1-216-097-91	RES-CHIP	100K	5% 1/10W
R4518	1-216-025-91	RES-CHIP	100	5% 1/10W
R4519	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4520	1-216-025-91	RES-CHIP	100	5% 1/10W
R4521	1-216-025-91	RES-CHIP	100	5% 1/10W
R4800	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4801	1-216-049-91	RES-CHIP	1K	5% 1/10W
R4802	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4803	1-216-049-91	RES-CHIP	1K	5% 1/10W
R4804	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R4805	1-208-792-11	METAL CHIP	2.7K	0.5% 1/10W
R4806	1-208-792-11	METAL CHIP	2.7K	0.5% 1/10W
R4807	1-216-049-91	RES-CHIP	1K	5% 1/10W
R4809	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4810	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R4811	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R4812	1-216-295-91	SHORT	0	
R4813	1-216-089-91	RES-CHIP	47K	5% 1/10W
R4814	1-208-830-11	METAL CHIP	100K	0.5% 1/10W
R4815	1-208-830-11	METAL CHIP	100K	0.5% 1/10W
R4816	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4817	1-208-854-11	METAL CHIP	1M	0.5% 1/10W
R4818	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4819	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4820	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4821	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4822	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4823	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4824	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4825	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4826	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4827	1-216-295-91	SHORT	0	
R4828	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4829	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4831	1-208-794-11	METAL CHIP	3.3K	0.5% 1/10W
R4832	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R4833	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R4834	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R4835	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R4836	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R4837	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R4838	1-208-830-11	METAL CHIP	100K	0.5% 1/10W
R4839	1-208-802-11	METAL CHIP	6.8K	0.5% 1/10W
R4840	1-216-295-91	SHORT	0	
R4841	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4842	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R4843	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4844	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK
R4845	1-208-830-11	METAL CHIP	100K	0.5% 1/10W
R4846	1-216-295-91	SHORT	0	
R4847	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4848	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4849	1-216-095-00	RES-CHIP	82K	5% 1/10W
R4850	1-216-097-91	RES-CHIP	100K	5% 1/10W
R4851	1-216-053-00	RES-CHIP	1.5K	5% 1/10W
R4852	1-216-081-00	RES-CHIP	22K	5% 1/10W
R4853	1-216-053-00	RES-CHIP	1.5K	5% 1/10W
R4854	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R4855	1-216-077-91	RES-CHIP	15K	5% 1/10W
R4856	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4857	1-208-810-11	METAL CHIP	15K	0.5% 1/10W
R4859	1-208-792-11	METAL CHIP	2.7K	0.5% 1/10W
R4860	1-208-792-11	METAL CHIP	2.7K	0.5% 1/10W
R4861	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4862	1-208-810-11	METAL CHIP	15K	0.5% 1/10W
R4864	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R4865	1-208-758-11	METAL CHIP	100	0.5% 1/10W
R4866	1-216-089-91	RES-CHIP	47K	5% 1/10W
R4869	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R4871	1-208-830-11	METAL CHIP	100K	0.5% 1/10W
R4872	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4874	1-216-295-91	SHORT	0	
R4875	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4877	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4878	1-208-836-11	METAL CHIP	180K	0.5% 1/10W
R4879	1-216-105-91	RES-CHIP	220K	5% 1/10W
R4881	1-216-295-91	SHORT	0	
R4882	1-208-834-11	METAL CHIP	150K	0.5% 1/10W
R4883	1-208-842-11	METAL CHIP	330K	0.5% 1/10W
R4884	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R4887	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R4892	1-216-295-91	SHORT	0	
R4894	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4895	1-216-073-00	RES-CHIP	10K	5% 1/10W
R4897	1-208-788-11	METAL CHIP	1.8K	0.5% 1/10W
R4898	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R4899	1-216-025-91	RES-CHIP	100	5% 1/10W
R4908	1-216-049-91	RES-CHIP	1K	5% 1/10W
R4909	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R4910	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R4911	1-208-818-11	METAL CHIP	33K	0.5% 1/10W
R4912	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R4913	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R4914	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4915	1-216-025-91	RES-CHIP	100	5% 1/10W
R4916	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4917	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4918	1-216-089-91	RES-CHIP	47K	5% 1/10W
R4921	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R4922	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R4924	1-208-820-11	METAL CHIP	39K	0.5% 1/10W
R4925	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4926	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4927	1-208-838-91	METAL CHIP	220K	0.5% 1/10W

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CRYSTAL>	
X4300	1-767-127-11	VIBRATOR, CERAMIC	

	* A-1241-402-A	F1 BOARD MOUNTED *****	
	1-533-223-11	HOLDER, FUSE	
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE	
		<CAPACITOR>	
C1601	Δ 1-104-708-51	MYLAR 0.47UF 20.00% 250V	
C1602	Δ 1-109-835-51	MYLAR 0.68UF 20.00% 250V	
C1603	Δ 1-117-703-51	CERAMIC 0.0047UF 99% 250V	
		<CONNECTOR>	
CN1601	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN1602	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN1604	1-695-915-11	TAB (CONTACT)	
		<FUSE>	
F1601	1-532-299-00	FUSE, TIME-LAG 5A/250V	
		<FERRITE BEAD>	
FB1601	1-410-397-21	FERRITE 1.1UH	
FB1602	1-410-397-21	FERRITE 1.1UH	
FB1603	1-410-397-21	FERRITE 1.1UH	
FB1604	1-410-397-21	FERRITE 1.1UH	
		<RESISTOR>	
R1601	Δ 1-202-885-91	SOLID 1M 10% 1/2W	
		<TRANSFORMER>	
T1601	1-433-900-11	TRANSFORMER, LINE FILTER	
T1602	1-433-900-11	TRANSFORMER, LINE FILTER	
		<VARISTOR>	
VDR161	1-803-830-11	VARISTOR (ERZV14D621)	

	* A-1241-403-A	F2 BOARD MOUNTED *****	
		<CONNECTOR>	
CN1651	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN1652	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<SWITCH>	
S1651	Δ 1-571-433-31	SWITCH, PUSH (AC POWER)	

	* A-1372-728-A	H1 BOARD MOUNTED *****	
	* 4-055-304-01	HOLDER, LED	
		<CAPACITOR>	
C1910	1-104-664-11	ELECT 47UF 20.00% 16V	
C1911	1-104-664-11	ELECT 47UF 20.00% 16V	
C1912	1-102-824-00	CERAMIC 470PF 5.00% 50V	
		<CONNECTOR>	
CN1901	* 1-564-520-11	PLUG, CONNECTOR 5P	
		<DIODE>	
D1906	8-719-045-19	DIODE SPB-26MVW	
		<IC>	
IC1901	8-742-134-00	HYB IC SBX1981-51P	
		<TRANSISTOR>	
Q1901	8-729-030-02	TRANSISTOR DTC144ESA	
Q1902	8-729-030-02	TRANSISTOR DTC144ESA	
		<RESISTOR>	
R1911	1-249-411-11	CARBON 330 5% 1/4W	
R1913	1-249-429-11	CARBON 10K 5% 1/4W	
R1914	1-249-411-11	CARBON 330 5% 1/4W	
R1915	1-249-429-11	CARBON 10K 5% 1/4W	
R1916	1-249-401-11	CARBON 47 5% 1/4W	
R1917	1-247-807-31	CARBON 100 5% 1/4W	
R1920	1-247-807-31	CARBON 100 5% 1/4W	
R1921	1-247-807-31	CARBON 100 5% 1/4W	

	* A-1372-729-A	H2 BOARD MOUNTED *****	
		<CAPACITOR>	
C1930	1-136-153-00	MYLAR 0.01UF 5.00% 50V	
C1932	1-136-153-00	MYLAR 0.01UF 5.00% 50V	
C1935	1-102-824-00	CERAMIC 470PF 5.00% 50V	
C1938	1-102-824-00	CERAMIC 470PF 5.00% 50V	



REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN1932*	1-564-509-11	PLUG, CONNECTOR 6P	
CN1934*	1-564-515-11	PLUG, CONNECTOR 12P	
		<DIODE>	
D1930	8-719-929-15	DIODE HZS9.1NB2	
D1930	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D1935	8-719-929-15	DIODE HZS9.1NB2	
D1935	8-719-923-60	DIODE MTZJ-T-77-9.1A	
		<JACK>	
J1931	1-770-786-11	JACK	
J1932	1-537-744-11	TERMINAL, S	
J1933	1-770-329-11	JACK, PIN 3P	
		<COIL>	
L1931	1-408-603-31	INDUCTOR 10UH	
L1932	1-408-603-31	INDUCTOR 10UH	
		<RESISTOR>	
R1933	1-247-895-91	CARBON 470K 5% 1/4W	
R1934	1-247-807-31	CARBON 100 5% 1/4W	
R1935	1-247-807-31	CARBON 100 5% 1/4W	
R1936	1-247-895-91	CARBON 470K 5% 1/4W	
R1952	1-249-421-11	CARBON 2.2K 5% 1/4W	
		<SWITCH>	
S1931	1-692-431-21	SWITCH, TACTILE	

	* A-1372-730-A	H3 BOARD MOUNTED *****	
		<CONNECTOR>	
CN1980*	1-564-518-11	PLUG, CONNECTOR 3P	
		<RESISTOR>	
R1970	1-249-416-11	CARBON 820 5% 1/4W	
R1971	1-249-417-11	CARBON 1K 5% 1/4W	
R1972	1-249-418-11	CARBON 1.2K 5% 1/4W	
R1973	1-249-420-11	CARBON 1.8K 5% 1/4W	
R1974	1-247-843-11	CARBON 3.3K 5% 1/4W	
R1975	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1976	1-249-432-11	CARBON 18K 5% 1/4W	
		<SWITCH>	
S1972	1-572-198-11	SWITCH, KEYBOARD	
S1973	1-572-198-11	SWITCH, KEYBOARD	

REF. NO.	PART NO.	DESCRIPTION	REMARK
S1974	1-572-198-11	SWITCH, KEYBOARD	
S1975	1-572-198-11	SWITCH, KEYBOARD	
S1976	1-572-198-11	SWITCH, KEYBOARD	
S1977	1-572-198-11	SWITCH, KEYBOARD	
S1978	1-572-198-11	SWITCH, KEYBOARD	
S1979	1-572-198-11	SWITCH, KEYBOARD	

	* A-1394-979-A	J BOARD COMPLETE *****	
		<CAPACITOR>	
C8300	1-107-823-11	CERAMIC CHIP 0.47UF 10.00% 16V	
C8301	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8302	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8303	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8304	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8305	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8306	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8307	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8308	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8309	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8310	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8311	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8312	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8313	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8314	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8315	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8316	1-163-133-00	CERAMIC CHIP 470PF 5.00% 50V	
C8317	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C8318	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8319	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8320	1-117-720-11	CERAMIC CHIP 4.7UF 10V	
C8321	1-117-720-11	CERAMIC CHIP 4.7UF 10V	
C8322	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8323	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8324	1-117-720-11	CERAMIC CHIP 4.7UF 10V	
C8325	1-126-935-11	ELECT 470UF 20.00% 16V	
C8326	1-107-823-11	CERAMIC CHIP 0.47UF 10.00% 16V	
C8327	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8328	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8329	1-163-249-11	CERAMIC CHIP 82PF 5.00% 50V	
C8330	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8331	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8333	1-115-340-11	CERAMIC CHIP 0.22UF 10.00% 25V	
C8334	1-104-664-11	ELECT 47UF 20.00% 16V	
C8335	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C8336	1-104-664-11	ELECT 47UF 20.00% 16V	
C8337	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C8338	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8339	1-164-346-11	CERAMIC CHIP 1UF 16V	
C8340	1-107-823-11	CERAMIC CHIP 0.47UF 10.00% 16V	
C8341	1-107-823-11	CERAMIC CHIP 0.47UF 10.00% 16V	
C8342	1-126-964-11	ELECT 10UF 20.00% 50V	
C8343	1-104-664-11	ELECT 47UF 20.00% 16V	

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C8346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8439	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8349	1-117-720-11	CERAMIC CHIP	4.7UF	10V	C8440	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8352	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V	C8441	1-164-346-11	CERAMIC CHIP	1UF	16V
C8353	1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V	C8442	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V	C8443	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8355	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C8444	1-117-720-11	CERAMIC CHIP	4.7UF	10V
C8356	1-164-346-11	CERAMIC CHIP	1UF	16V	C8445	1-164-346-11	CERAMIC CHIP	1UF	16V
C8359	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V	C8446	1-104-664-11	ELECT	47UF	20.00% 16V
C8360	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C8447	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8361	1-126-961-11	ELECT	2.2UF	20.00% 50V	C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V
C8362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8450	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V
C8363	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8451	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C8364	1-104-664-11	ELECT	47UF	20.00% 16V	C8452	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8365	1-104-664-11	ELECT	47UF	20.00% 16V	C8453	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C8454	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8367	1-104-664-11	ELECT	47UF	20.00% 16V	C8455	1-104-664-11	ELECT	47UF	20.00% 16V
C8368	1-104-664-11	ELECT	47UF	20.00% 16V	C8456	1-104-664-11	ELECT	47UF	20.00% 16V
C8369	1-104-664-11	ELECT	47UF	20.00% 16V	C8457	1-104-664-11	ELECT	47UF	20.00% 16V
C8370	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8459	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8464	1-104-664-11	ELECT	47UF	20.00% 16V
C8372	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8465	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8373	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V	C8466	1-247-807-31	CARBON	100	5% 1/4W
C8374	1-164-346-11	CERAMIC CHIP	1UF	16V	C8468	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8375	1-126-964-11	ELECT	10UF	20.00% 50V	C8469	1-247-807-31	CARBON	100	5% 1/4W
C8376	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8471	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8381	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C8474	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8382	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V			<CONNECTOR>		
C8386	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	CN8301*	1-564-524-11	PLUG, CONNECTOR 9P		
C8390	1-126-963-11	ELECT	4.7UF	20.00% 50V	CN8302	1-695-915-11	TAB (CONTACT)		
C8391	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	CN8304	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P		
C8392	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V			<DIODE>		
C8393	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D8101	8-719-073-01	DIODE MA111-(K8),SO		
C8396	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V	D8102	1-216-295-91	SHORT	0	
C8399	1-126-961-11	ELECT	2.2UF	20.00% 50V	D8301	8-719-158-35	DIODE RD9.1SB		
C8401	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	D8302	8-719-158-35	DIODE RD9.1SB		
C8402	1-164-346-11	CERAMIC CHIP	1UF	16V	D8303	8-719-158-35	DIODE RD9.1SB		
C8403	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V	D8304	8-719-158-35	DIODE RD9.1SB		
C8406	1-104-664-11	ELECT	47UF	20.00% 16V	D8305	8-719-158-35	DIODE RD9.1SB		
C8407	1-104-664-11	ELECT	47UF	20.00% 16V	D8306	8-719-158-35	DIODE RD9.1SB		
C8408	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	D8307	8-719-158-35	DIODE RD9.1SB		
C8410	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D8308	8-719-158-35	DIODE RD9.1SB		
C8411	1-117-720-11	CERAMIC CHIP	4.7UF	10V	D8309	8-719-158-35	DIODE RD9.1SB		
C8412	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D8310	8-719-158-35	DIODE RD9.1SB		
C8413	1-117-720-11	CERAMIC CHIP	4.7UF	10V	D8311	8-719-158-35	DIODE RD9.1SB		
C8414	1-104-664-11	ELECT	47UF	20.00% 16V	D8312	8-719-158-35	DIODE RD9.1SB		
C8415	1-164-346-11	CERAMIC CHIP	1UF	16V	D8313	8-719-158-35	DIODE RD9.1SB		
C8416	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D8314	8-719-158-35	DIODE RD9.1SB		
C8417	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V	D8315	8-719-067-40	DIODE STZ6.8N-T146		
C8418	1-126-964-11	ELECT	10UF	20.00% 50V	D8316	8-719-067-40	DIODE STZ6.8N-T146		
C8419	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D8317	8-719-067-40	DIODE STZ6.8N-T146		
C8424	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	D8318	8-719-158-35	DIODE RD9.1SB		
C8425	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	D8319	8-719-158-35	DIODE RD9.1SB		
C8430	1-117-720-11	CERAMIC CHIP	4.7UF	10V	D8320	8-719-158-35	DIODE RD9.1SB		
C8431	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V					
C8432	1-163-239-11	CERAMIC CHIP	33PF	5.00% 50V					
C8437	1-126-963-11	ELECT	4.7UF	20.00% 50V					
C8438	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D8321	8-719-158-35	DIODE RD9.1SB				<JACK>	
D8322	8-719-158-35	DIODE RD9.1SB		J8106	1-793-787-11	JACK BLOCK, PIN 1P	
D8323	8-719-158-35	DIODE RD9.1SB		J8301	1-774-748-11	TERMINAL BLOCK, S	
D8324	8-719-158-35	DIODE RD9.1SB		J8302	1-774-746-11	JACK BLOCK, PIN	
D8325	8-719-158-35	DIODE RD9.1SB		J8303	1-774-746-11	JACK BLOCK, PIN	
D8331	8-719-041-97	DIODE MA113-(TX)		J8304	1-774-746-11	JACK BLOCK, PIN	
		<FERRITE BEAD>		J8305	1-695-444-11	PIN JACK BLOCK 3P	
FB8101	1-414-598-21	INDUCTOR FERRITE BEAD		J8307	1-565-838-11	JACK BLOCK, PIN 2P	
FB8102	1-216-295-91	SHORT 0				<CHIP CONDUCTOR>	
FB8103	1-216-295-91	SHORT 0		JR8301	1-216-295-91	SHORT 0	
FB8104	1-414-598-11	INDUCTOR CHIP 0UH		JR8302	1-216-295-91	SHORT 0	
FB8105	1-216-295-91	SHORT 0				<COIL>	
FB8106	1-414-598-11	INDUCTOR CHIP 0UH		L8302	1-414-196-41	INDUCTOR 47UH	
FB8108	1-414-598-11	INDUCTOR CHIP 0UH		L8303	1-414-196-41	INDUCTOR 47UH	
FB8109	1-414-598-11	INDUCTOR CHIP 0UH		L8304	1-414-196-41	INDUCTOR 47UH	
FB8110	1-414-598-11	INDUCTOR CHIP 0UH				<TRANSISTOR>	
FB8111	1-414-598-11	INDUCTOR CHIP 0UH		Q8301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FB8112	1-414-598-11	INDUCTOR CHIP 0UH		Q8302	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8113	1-414-598-11	INDUCTOR CHIP 0UH		Q8303	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8114	1-414-598-11	INDUCTOR CHIP 0UH		Q8304	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8115	1-414-598-11	INDUCTOR CHIP 0UH		Q8305	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FB8116	1-414-598-11	INDUCTOR CHIP 0UH		Q8306	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8117	1-414-598-11	INDUCTOR CHIP 0UH		Q8307	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8118	1-414-598-11	INDUCTOR CHIP 0UH		Q8308	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8119	1-414-598-11	INDUCTOR CHIP 0UH		Q8309	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8120	1-414-598-11	INDUCTOR CHIP 0UH		Q8310	8-729-230-49	TRANSISTOR 2SC2712-YG	
FB8121	1-414-598-11	INDUCTOR CHIP 0UH		Q8312	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<FILTER>		Q8319	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8101	1-234-177-21	FILTER, CHIP EMI		Q8320	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8301	1-236-071-11	ENCAPSULATED COMPONENT		Q8321	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT		Q8322	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT		Q8323	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8305	1-236-071-11	ENCAPSULATED COMPONENT		Q8324	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8307	1-236-071-11	ENCAPSULATED COMPONENT		Q8326	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL8308	1-236-071-11	ENCAPSULATED COMPONENT		Q8327	1-801-806-11	TRANSISTOR DTC144EKA	
FL8309	1-236-071-11	ENCAPSULATED COMPONENT		Q8328	1-801-806-11	TRANSISTOR DTC144EKA	
FL8311	1-236-071-11	ENCAPSULATED COMPONENT		Q8329	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL8312	1-236-071-11	ENCAPSULATED COMPONENT		Q8330	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL8313	1-236-071-11	ENCAPSULATED COMPONENT		Q8331	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL8314	1-233-877-11	FILTER, LOW PASS		Q8332	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL8315	1-233-504-21	FILTER, LOW PASS		Q8333	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL8316	1-233-504-21	FILTER, LOW PASS		Q8334	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<IC>		Q8335	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC8302	8-752-080-04	IC CXA2069Q		Q8336	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC8304	8-759-576-72	IC LF50CDT-TR		Q8337	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC8305	8-759-576-74	IC LF90CDT-TR		Q8344	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC8306	8-752-094-47	IC CXA2123AQ-T6		Q8345	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC8308	8-752-094-47	IC CXA2123AQ-T6		Q8346	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC8309	8-759-337-26	IC MM1115XFBE		Q8347	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC8310	8-759-572-04	IC TDA9178T/N1.118		Q8348	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC8311	8-759-485-79	IC TC7SET08FU(TE85R)		Q8349	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC8312	8-759-485-79	IC TC7SET08FU(TE85R)					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q8350	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R8338	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8351	8-729-230-49	TRANSISTOR 2SC2712-YG		R8339	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8352	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R8340	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8353	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R8341	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8354	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R8342	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8355	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R8343	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8358	1-801-806-11	TRANSISTOR DTC144EKA		R8344	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8359	1-801-806-11	TRANSISTOR DTC144EKA		R8345	1-216-033-00	RES-CHIP	220 5% 1/10W
Q8360	1-801-806-11	TRANSISTOR DTC144EKA		R8346	1-216-031-00	RES-CHIP	180 5% 1/10W
Q8361	8-729-230-49	TRANSISTOR 2SC2712-YG		R8347	1-216-025-91	RES-CHIP	100 5% 1/10W
Q8362	8-729-230-49	TRANSISTOR 2SC2712-YG		R8348	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q8363	8-729-230-49	TRANSISTOR 2SC2712-YG		R8349	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q8464	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R8350	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q8465	8-729-230-49	TRANSISTOR 2SC2712-YG		R8351	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8466	8-729-230-49	TRANSISTOR 2SC2712-YG		R8352	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
		<RESISTOR>		R8353	1-216-017-91	RES-CHIP	47 5% 1/10W
R8101	1-216-022-91	RES-CHIP	75 5% 1/10W	R8355	1-216-295-91	SHORT	0
R8208	1-216-295-91	SHORT	0	R8356	1-216-295-91	SHORT	0
R8209	1-216-295-91	SHORT	0	R8357	1-216-017-91	RES-CHIP	47 5% 1/10W
R8301	1-216-041-00	RES-CHIP	470 5% 1/10W	R8358	1-216-017-91	RES-CHIP	47 5% 1/10W
R8302	1-216-041-00	RES-CHIP	470 5% 1/10W	R8361	1-216-017-91	RES-CHIP	47 5% 1/10W
R8303	1-216-021-00	RES-CHIP	68 5% 1/10W	R8363	1-216-642-11	METAL CHIP	430 0.5% 1/10W
R8304	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8364	1-216-041-00	RES-CHIP	470 5% 1/10W
R8305	1-216-113-00	RES-CHIP	470K 5% 1/10W	R8365	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8306	1-216-022-00	RES-CHIP	75 5% 1/10W	R8366	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8307	1-216-022-00	RES-CHIP	75 5% 1/10W	R8367	1-216-041-00	RES-CHIP	470 5% 1/10W
R8308	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8369	1-216-041-00	RES-CHIP	470 5% 1/10W
R8309	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8370	1-216-025-91	RES-CHIP	100 5% 1/10W
R8310	1-216-022-00	RES-CHIP	75 5% 1/10W	R8372	1-216-295-91	SHORT	0
R8311	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8373	1-216-295-91	SHORT	0
R8312	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8374	1-216-039-00	RES-CHIP	390 5% 1/10W
R8313	1-216-022-00	RES-CHIP	75 5% 1/10W	R8375	1-216-041-00	RES-CHIP	470 5% 1/10W
R8314	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8376	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8315	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8377	1-216-025-91	RES-CHIP	100 5% 1/10W
R8316	1-216-113-00	RES-CHIP	470K 5% 1/10W	R8378	1-216-033-00	RES-CHIP	220 5% 1/10W
R8317	1-216-022-00	RES-CHIP	75 5% 1/10W	R8379	1-216-033-00	RES-CHIP	220 5% 1/10W
R8318	1-216-022-00	RES-CHIP	75 5% 1/10W	R8380	1-216-025-91	RES-CHIP	100 5% 1/10W
R8319	1-216-022-00	RES-CHIP	75 5% 1/10W	R8381	1-216-025-91	RES-CHIP	100 5% 1/10W
R8320	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8382	1-216-033-00	RES-CHIP	220 5% 1/10W
R8321	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8383	1-216-033-00	RES-CHIP	220 5% 1/10W
R8322	1-216-022-00	RES-CHIP	75 5% 1/10W	R8384	1-216-025-91	RES-CHIP	100 5% 1/10W
R8323	1-216-295-91	SHORT	0	R8385	1-216-025-91	RES-CHIP	100 5% 1/10W
R8324	1-216-295-91	SHORT	0	R8386	1-216-025-91	RES-CHIP	100 5% 1/10W
R8325	1-216-295-91	SHORT	0	R8388	1-216-031-00	RES-CHIP	180 5% 1/10W
R8326	1-216-113-00	RES-CHIP	470K 5% 1/10W	R8389	1-216-033-00	RES-CHIP	220 5% 1/10W
R8327	1-216-295-91	SHORT	0	R8395	1-216-033-00	RES-CHIP	220 5% 1/10W
R8328	1-216-113-00	RES-CHIP	470K 5% 1/10W	R8396	1-216-033-00	RES-CHIP	220 5% 1/10W
R8329	1-216-113-00	RES-CHIP	470K 5% 1/10W	R8399	1-216-025-91	RES-CHIP	100 5% 1/10W
R8330	1-216-022-00	RES-CHIP	75 5% 1/10W	R8400	1-216-025-91	RES-CHIP	100 5% 1/10W
R8331	1-216-295-91	SHORT	0	R8405	1-216-033-00	RES-CHIP	220 5% 1/10W
R8332	1-216-295-91	SHORT	0	R8406	1-216-033-00	RES-CHIP	220 5% 1/10W
R8333	1-216-295-91	SHORT	0	R8407	1-216-033-00	RES-CHIP	220 5% 1/10W
R8334	1-216-295-91	SHORT	0	R8409	1-216-295-91	SHORT	0
R8335	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R8410	1-216-295-91	SHORT	0
R8336	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R8411	1-216-083-00	RES-CHIP	27K 5% 1/10W
R8337	1-216-022-00	RES-CHIP	75 5% 1/10W	R8414	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK
R8415	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8417	1-216-025-91	RES-CHIP	100 5% 1/10W
R8418	1-216-025-91	RES-CHIP	100 5% 1/10W
R8419	1-216-017-91	RES-CHIP	47 5% 1/10W
R8420	1-216-017-91	RES-CHIP	47 5% 1/10W
R8421	1-216-295-91	SHORT	0
R8422	1-216-295-91	SHORT	0
R8424	1-216-083-00	RES-CHIP	27K 5% 1/10W
R8425	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8426	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
R8428	1-216-295-91	SHORT	0
R8429	1-216-295-91	SHORT	0
R8430	1-216-295-91	SHORT	0
R8431	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8432	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8433	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8434	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8435	1-216-295-91	SHORT	0
R8436	1-216-017-91	RES-CHIP	47 5% 1/10W
R8440	1-216-295-91	SHORT	0
R8441	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8442	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8443	1-216-025-91	RES-CHIP	100 5% 1/10W
R8444	1-216-025-91	RES-CHIP	100 5% 1/10W
R8445	1-216-017-91	RES-CHIP	47 5% 1/10W
R8446	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8447	1-216-025-91	RES-CHIP	100 5% 1/10W
R8448	1-216-025-91	RES-CHIP	100 5% 1/10W
R8449	1-216-025-91	RES-CHIP	100 5% 1/10W
R8450	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8451	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8452	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8453	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8454	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8455	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8456	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8457	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8458	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8459	1-216-025-91	RES-CHIP	100 5% 1/10W
R8460	1-216-025-91	RES-CHIP	100 5% 1/10W
R8461	1-216-025-91	RES-CHIP	100 5% 1/10W
R8462	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8463	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8464	1-216-025-91	RES-CHIP	100 5% 1/10W
R8465	1-216-025-91	RES-CHIP	100 5% 1/10W
R8466	1-216-025-91	RES-CHIP	100 5% 1/10W
R8467	1-216-041-00	RES-CHIP	470 5% 1/10W
R8468	1-216-041-00	RES-CHIP	470 5% 1/10W
R8469	1-216-041-00	RES-CHIP	470 5% 1/10W
R8470	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R8471	1-216-025-91	RES-CHIP	100 5% 1/10W
R8472	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8473	1-216-025-91	RES-CHIP	100 5% 1/10W
R8474	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8475	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8478	1-216-089-91	RES-CHIP	47K 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8479	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8480	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8481	1-216-095-00	RES-CHIP	82K 5% 1/10W
R8482	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8484	1-216-045-00	RES-CHIP	680 5% 1/10W
R8485	1-216-037-00	RES-CHIP	330 5% 1/10W
R8486	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8487	1-216-045-00	RES-CHIP	680 5% 1/10W
R8488	1-216-041-00	RES-CHIP	470 5% 1/10W
R8489	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8490	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8491	1-216-025-91	RES-CHIP	100 5% 1/10W
R8492	1-216-041-00	RES-CHIP	470 5% 1/10W
R8493	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8494	1-216-041-00	RES-CHIP	470 5% 1/10W
R8495	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8496	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8497	1-216-025-91	RES-CHIP	100 5% 1/10W
R8498	1-216-043-91	RES-CHIP	560 5% 1/10W
R8499	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8500	1-216-033-00	RES-CHIP	220 5% 1/10W
R8501	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8502	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8503	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8504	1-216-295-91	SHORT	0
R8507	1-216-025-91	RES-CHIP	100 5% 1/10W
R8508	1-216-025-91	RES-CHIP	100 5% 1/10W
R8511	1-216-041-00	RES-CHIP	470 5% 1/10W
R8512	1-216-017-91	RES-CHIP	47 5% 1/10W
R8513	1-216-039-00	RES-CHIP	390 5% 1/10W
R8514	1-216-039-00	RES-CHIP	390 5% 1/10W
R8515	1-216-295-91	SHORT	0
R8516	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8518	1-216-047-91	RES-CHIP	820 5% 1/10W
R8519	1-216-047-91	RES-CHIP	820 5% 1/10W
R8522	1-216-041-00	RES-CHIP	470 5% 1/10W
R8524	1-216-041-00	RES-CHIP	470 5% 1/10W
R8525	1-216-033-00	RES-CHIP	220 5% 1/10W
R8528	1-216-025-91	RES-CHIP	100 5% 1/10W
R8530	1-216-041-00	RES-CHIP	470 5% 1/10W
R8532	1-216-041-00	RES-CHIP	470 5% 1/10W
R8533	1-216-041-00	RES-CHIP	470 5% 1/10W
R8536	1-216-025-91	RES-CHIP	100 5% 1/10W
R8538	1-216-041-00	RES-CHIP	470 5% 1/10W
R8540	1-216-041-00	RES-CHIP	470 5% 1/10W
R8541	1-216-039-00	RES-CHIP	390 5% 1/10W
R8544	1-216-041-00	RES-CHIP	470 5% 1/10W
R8547	1-216-295-91	SHORT	0
R8548	1-216-033-00	RES-CHIP	220 5% 1/10W
R8551	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8556	1-216-025-91	RES-CHIP	100 5% 1/10W
R8557	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8558	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R8560	1-216-025-91	RES-CHIP	100 5% 1/10W
R8561	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8562	1-208-776-11	METAL CHIP	560 0.5% 1/10W
R8564	1-216-025-91	RES-CHIP	100 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK
R8565	1-216-049-91	RES-CHIP 1K	5% 1/10W
R8566	1-208-776-11	METAL CHIP 560	0.5% 1/10W
R8567	1-216-017-91	RES-CHIP 47	5% 1/10W
R8569	1-208-800-11	METAL CHIP 5.6K	0.5% 1/10W
R8570	1-216-017-91	RES-CHIP 47	5% 1/10W
R8572	1-208-800-11	METAL CHIP 5.6K	0.5% 1/10W
R8573	1-216-017-91	RES-CHIP 47	5% 1/10W
R8575	1-208-800-11	METAL CHIP 5.6K	0.5% 1/10W
R8576	1-216-013-00	RES-CHIP 33	5% 1/10W
R8577	1-216-295-91	SHORT 0	
R8578	1-216-033-00	RES-CHIP 220	5% 1/10W
R8579	1-216-295-91	SHORT 0	
R8582	1-208-291-11	RES-CHIP 4.7M	5% 1/10W
R8584	1-208-291-11	RES-CHIP 4.7M	5% 1/10W
R8585	1-208-291-11	RES-CHIP 4.7M	5% 1/10W
R8586	1-208-291-11	RES-CHIP 4.7M	5% 1/10W
R8587	1-216-295-91	SHORT 0	
R8588	1-216-041-00	RES-CHIP 470	5% 1/10W
R8589	1-216-041-00	RES-CHIP 470	5% 1/10W
R8590	1-216-041-00	RES-CHIP 470	5% 1/10W
<CRYSTAL>			
X8102	1-781-041-11	VIBRATOR, CRYSTAL	
X8301	1-781-612-11	VIBRATOR, CRYSTAL	
X8302	1-781-612-11	VIBRATOR, CRYSTAL	

* A-1342-515-A	VM BOARD MOUNTED	*****	
4-382-854-11	SCREW (M3X10), P, SW (+)		
<CAPACITOR>			
C5401	1-126-935-11	ELECT 470UF	20.00% 16V
C5402	1-137-194-81	MYLAR 0.47UF	5.00% 50V
C5403	1-126-935-11	ELECT 470UF	20.00% 6.3V
C5405	1-126-933-11	ELECT 100UF	20.00% 16V
C5406	1-126-935-11	ELECT 470UF	20.00% 6.3V
C5407	1-107-364-11	MYLAR 0.01UF	10.00% 200V
C5408	1-107-364-11	MYLAR 0.01UF	10.00% 200V
C5409	1-107-649-11	ELECT 2.2UF	20.00% 250V
C5410	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C5411	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C5412	1-126-935-11	ELECT 470UF	20.00% 16V
C5413	1-107-648-91	ELECT 100UF	20.00% 160V
C5415	1-104-999-11	MYLAR 0.1UF	10.00% 200V
C5418	1-107-638-11	ELECT 33UF	20.00% 160V
<CONNECTOR>			
CN5401 *	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
CN5402	1-764-334-11	PLUG, CONNECTOR 11P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>			
D5400	8-719-911-19	DIODE 1SS119-25	
D5401	8-719-510-02	DIODE D1NS4	
D5402	8-719-911-19	DIODE 1SS119-25	
D5403	8-719-911-19	DIODE 1SS119-25	
D5404	8-719-911-19	DIODE 1SS119-25	
D5405	8-719-110-56	DIODE RD22ESB1	
D5406	8-719-110-56	DIODE RD22ESB1	
<COIL>			
L5400	1-412-525-31	INDUCTOR 10UH	
<TRANSISTOR>			
Q5400	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5404	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5405	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5406	8-729-045-05	TRANSISTOR 2SA2005	
Q5407	8-729-045-04	TRANSISTOR 2SC5511	
<RESISTOR>			
R5401	1-249-425-11	CARBON 4.7K	5% 1/4W
R5402	1-249-415-11	CARBON 680	5% 1/4W
R5403	1-247-739-11	CARBON 100	5% 1/2W
R5404	1-249-418-11	CARBON 1.2K	5% 1/4W
R5406	1-249-425-11	CARBON 4.7K	5% 1/4W
R5407	1-249-399-11	CARBON 33	5% 1/4W
R5408	1-247-807-31	CARBON 100	5% 1/4W
R5409	1-247-815-91	CARBON 220	5% 1/4W
R5410	1-249-401-11	CARBON 47	5% 1/4W
R5411	1-249-401-11	CARBON 47	5% 1/4W
R5412	1-249-429-11	CARBON 10K	5% 1/4W
R5413	1-249-414-11	CARBON 560	5% 1/4W
R5414	1-249-432-11	CARBON 18K	5% 1/4W
R5415	1-247-739-11	CARBON 100	5% 1/2W
R5416	1-249-385-11	CARBON 2.2	5% 1/4W
R5417	1-249-432-11	CARBON 18K	5% 1/4W
R5418	1-249-414-11	CARBON 560	5% 1/4W
R5419	1-249-421-11	CARBON 2.2K	5% 1/4W
R5420	1-249-421-11	CARBON 2.2K	5% 1/4W
R5421	1-249-385-11	CARBON 2.2	5% 1/4W
R5422	1-249-405-11	CARBON 100	5% 1/4W
R5423	1-215-915-11	METAL OXIDE 470	5% 3W
R5424	1-249-395-11	CARBON 15	5% 1/4W
R5425	1-249-401-11	CARBON 47	5% 1/4W
R5427	1-249-395-11	CARBON 15	5% 1/4W

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
		MISCELLANEOUS *****	
	Δ 1-419-293-11	COIL, DEGAUSSING	
	1-452-094-00	CIRCULAR DISC MAGNET B	
	1-452-032-00	MAGNET,DISC	
	1-452-896-11	COIL, NA ROTATION (RT200)	
	1-543-827-11	CLAMP, SLEEVE FERRITE	
	1-792-458-11	CABLE, RF (WITH FERRITE)	
	Δ 1-792-764-11	CORD, POWER (WITH FILTER)	
	1-529-562-11	SPEAKER (7X4CM)	
	1-505-473-11	SPEAKER (12CM)	
	1-900-251-82	LEAD ASSY, G2 (Location CN6810-CN9007(1))	
	8-453-007-31	NA324-M3	
	Δ 8-451-500-31	DEFLECTION YOKE (Y34RSC2-M2)	
	Δ 8-735-062-05	PICYURE TUBE (A80LPD10X)	

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
		ACCESSORIES AND PACKING MATERIALS *****	
	A-1028-496-A	PACKING GROUP	
	1-765-167-21	CABLE, COAXIAL	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	3-867-756-91	MANUAL, INSTRUCTION	
	* 4-067-103-11	TRAY	
	* 4-073-255-01	INDIVIDUAL CARTON	
	* 4-074-690-02	CUSHION (UPPER) (ASSY)	
	* 4-074-691-02	CUSHION (LOWER) (ASSY)	
	* 4-384-101-21	BAG, PROTECTION	
	* 4-396-077-01	JOINT	
	4-392-003-01	BAND, HOLD	
	4-392-004-11	CLIP	

REMOTE COMMANDER

1-476-071-11	REMOTE COMMANDER (RM-959)
4-074-721-01	BATTERY COVER, REMOTE COMMANDER