



SERVICE MANUAL

VP-D50



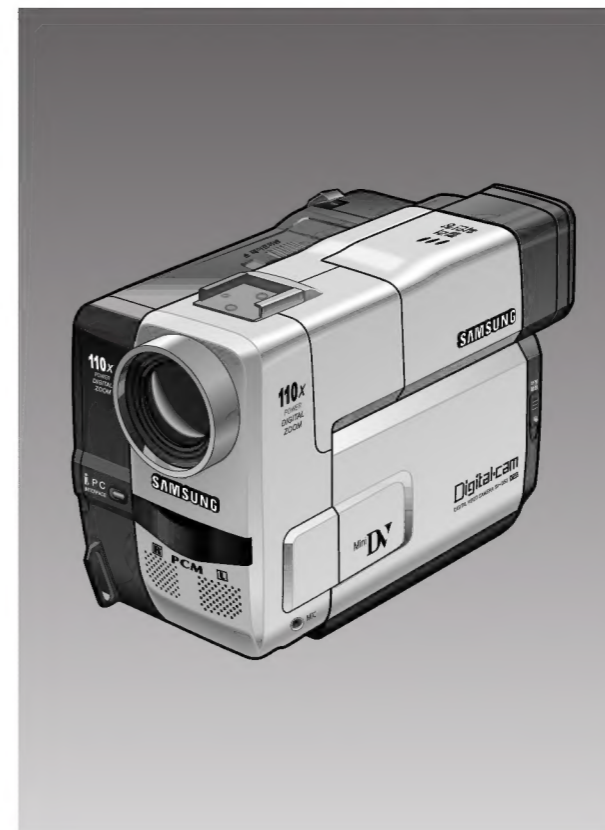
# DIGITAL VIDEO CAMERA VP-D50

# *SERVICE* Manual



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## DIGITAL VIDEO CAMERA



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# 1. Specifications

Item	Description
Television system	PAL signal
Recording system	DV system (Digital VCR SD for public)
Tape	6.35mm digital video tape : Mini. DV cassette
Tape speed	SP : approx. 18.83 mm/sec
Tape recording time	SP : 60 min (with DVM60)
Power	7.8V DC, Li-ion battery pack 7.2V
Power consumption	6.9W (with LCD), 6.4W (with electronic viewfinder)
Power type	Li-ion battery, power supply (100V - 240V)
Operating temperature	0°C - 40°C
Operating humidity	10% - 80%
Storage temperature	-20°C to +60°C
Dimensions	L144mm x H93mm x W83mm
Weight	670g (except Li-ion battery pack and cassette)
DV output	Connector for 4 pins
Video output	1Vp-p (75Ω terminated)
S-Video output	Y:1Vp-p, 75Ω , C:0.286 Vp-p, 75Ω
Audio output	-7.5dBs (600Ω terminated)
Horizontal resolution	more than 400lines (when playing recorded camera)
FF/REW time	approx. 160sec (with DVM60)
Electronic viewfinder	0.55" color LCD
LCD	2.5" high resolution TFT LCD (112,320 pixels)
Lens	F1.8, 11X motor zoom, 110X(digital) motor zoom lens
Microphone	Non-directional stereo
Remote control	Indoor: max. 15 m, max. 12 m (horizontal 30°) Outdoor: max. 5 m, max. 3m (horizontal 30°)

❖ The technical specifications and design may be changed without notice. Weight and dimensions are approximate.

**MEMO**

A large rectangular area enclosed by a dotted border, intended for writing a memo.

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## 2. Disassembly and Reassembly

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### 2-1. Cabinet and PCB Disassembly

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#### 2-1-1. Ass'y Front Removal

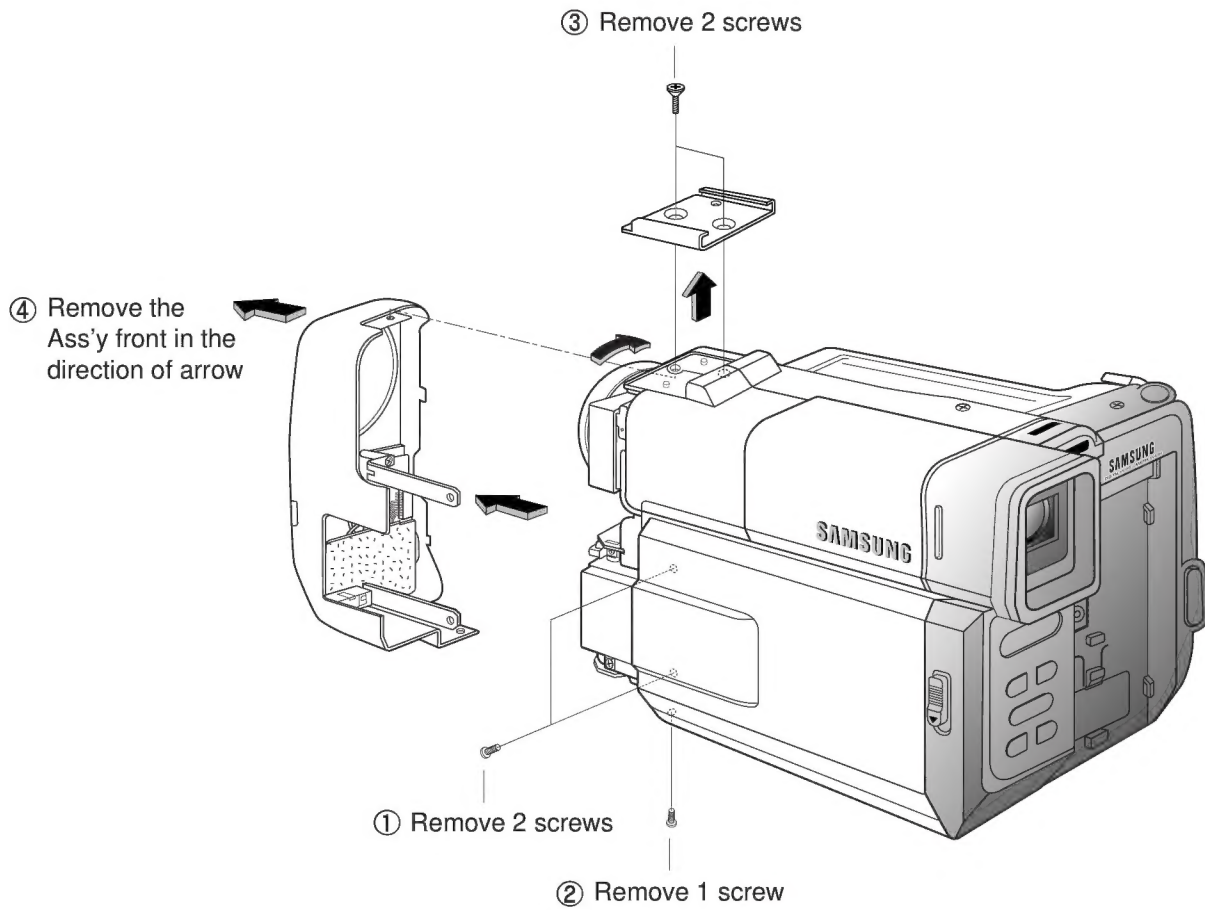


Fig. 2-1 Ass'y Front Removal

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## 3. Adjustment

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### 3-1. VCR Adjustment

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#### 3-1-1. VCR Adjustment Preparation

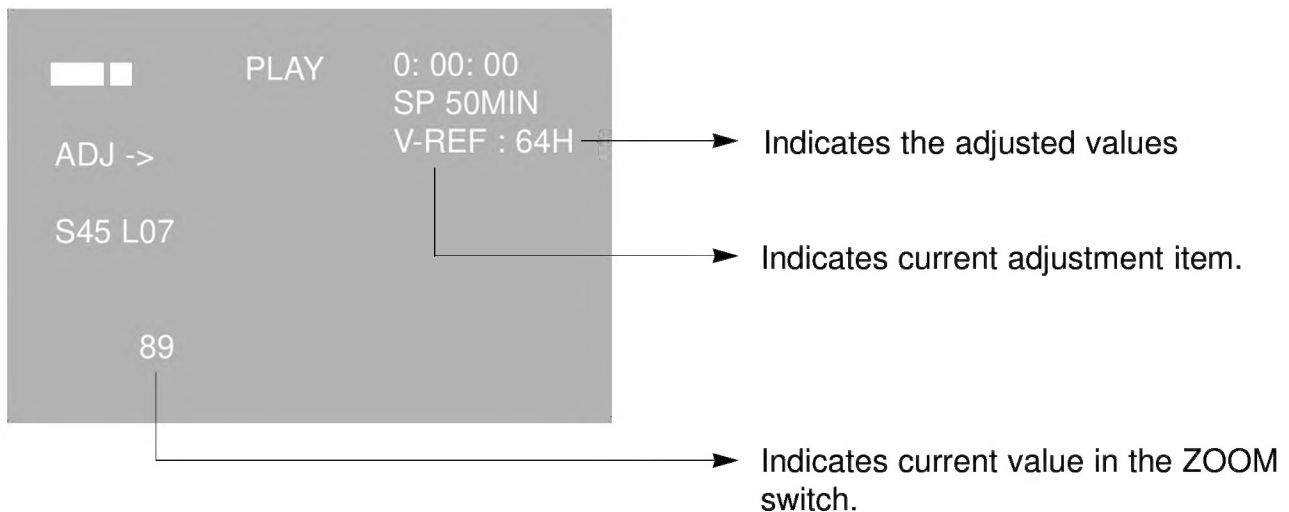
##### 1. How to get into the VCR adjust mode.

###### STEP 1

1. Connect the power source.
2. Set the mode switch of the video camera to "VCR" position.
3. Insert standard tape into the video camera and set to "PLAY" position.

###### STEP 2

1. Press and hold the "PLAY" button on the video camera or the remote control and "DOWN" button on the video camera at the same time for more than 10 seconds.
2. When monitor OSD appears as shown below, VCR adjustment mode has been activated successfully.
3. When changing the adjustment item after the adjusted value is designated, press the START/STOP button.



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## 4. Exploded View and Parts List

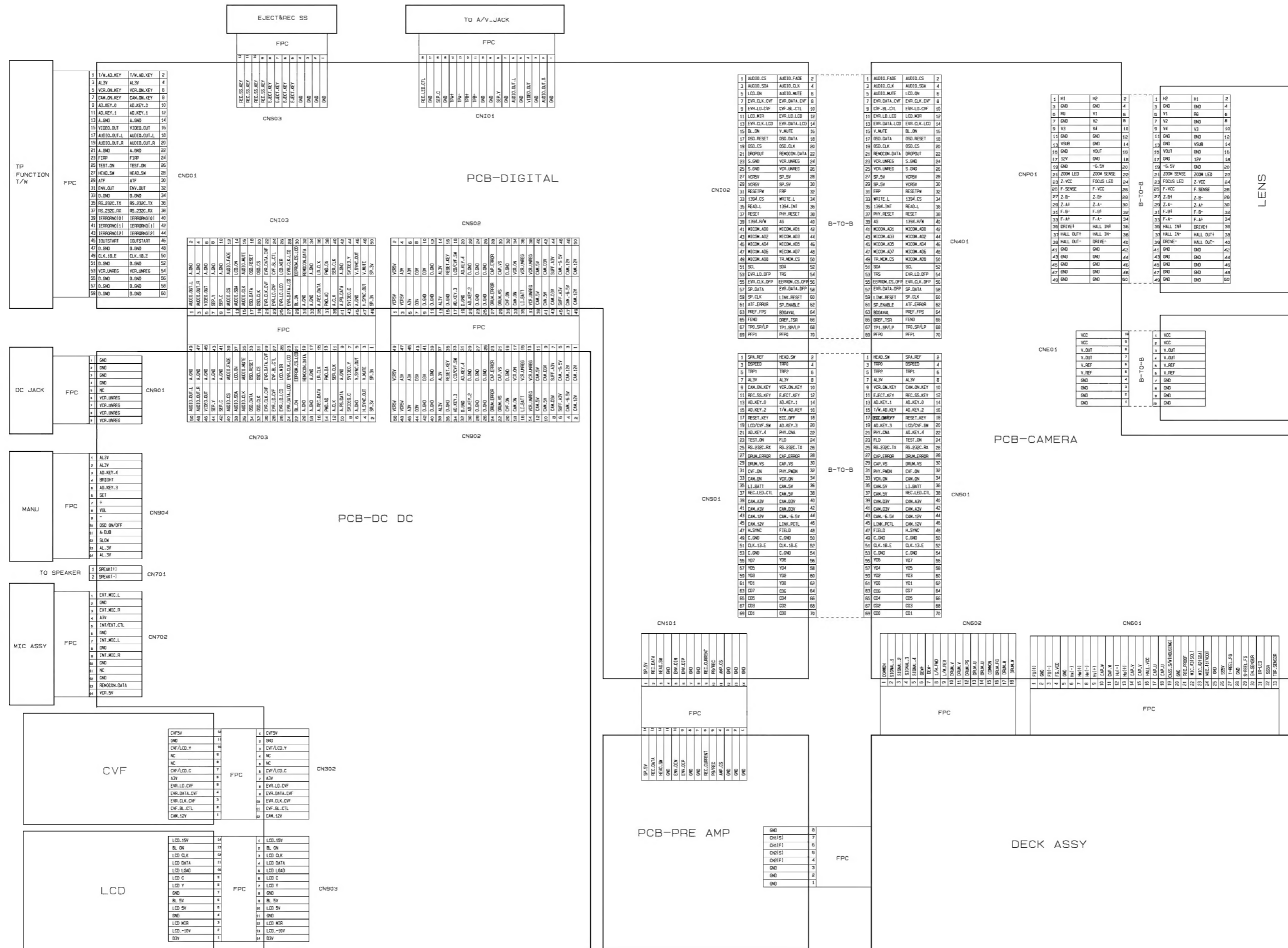
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## 5. Electrical Parts List

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
		ASSY-CAMERA MICOM BOARD					
B510	3301-001051	CORE-FERRITE BEAD;AC,1.6X0.8X0.8mm,-,-		C518	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
B513	3301-001051	CORE-FERRITE BEAD;AC,1.6X0.8X0.8mm,-,-		C519	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
B515	3301-001051	CORE-FERRITE BEAD;AC,1.6X0.8X0.8mm,-,-		C525	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
B516	3301-001051	CORE-FERRITE BEAD;AC,1.6X0.8X0.8mm,-,-		C526	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C401	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C527	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C402	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C528	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C403	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C529	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C404	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C531	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C405	2203-000384	C-CERAMIC,CHIP;0.015nF,5%,50V,NP0,TP,160		C533	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C406	2203-000384	C-CERAMIC,CHIP;0.015nF,5%,50V,NP0,TP,160		C601	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C407	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		C602	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C408	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C603	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C409	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C605	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C410	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C606	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C411	2203-000783	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,1608		C607	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C412	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C608	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
C413	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C609	2203-001103	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1608	
C414	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C610	2203-000604	C-CERAMIC,CHIP;22nF,10%,25V,X7R,TP,1608	
C415	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C611	2203-001103	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1608	
C416	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C612	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C417	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C613	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
C418	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-		C614	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
C501	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		C615	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
C502	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C616	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
C503	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-		C617	2203-005015	C-CERAMIC,CHIP;150nF,+80-20%,16V,Y5V,TP,	
C504	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C618	2203-005015	C-CERAMIC,CHIP;150nF,+80-20%,16V,Y5V,TP,	
C505	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-		C619	2203-005015	C-CERAMIC,CHIP;150nF,+80-20%,16V,Y5V,TP,	
C506	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C620	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
C507	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160		C621	2203-005148	C-CERAMIC,CHIP;100nF,10%,16V,X7R,TP,1608	
C508	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160		C622	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C509	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C627	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C510	2203-000332	C-CERAMIC,CHIP;0.012nF,5%,50V,NP0,TP,160		C628	2203-001554	C-CERAMIC,CHIP;1.8nF,10%,50V,X7R,TP,1608	
C511	2203-000332	C-CERAMIC,CHIP;0.012nF,5%,50V,NP0,TP,160		C629	2203-001554	C-CERAMIC,CHIP;1.8nF,10%,50V,X7R,TP,1608	
C512	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C630	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C513	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C631	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C515	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C632	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,	
C516	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C633	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608	
C517	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C634	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608	
				C635	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608	

# 6. Wiring Diagram



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## 7. PCB Diagrams

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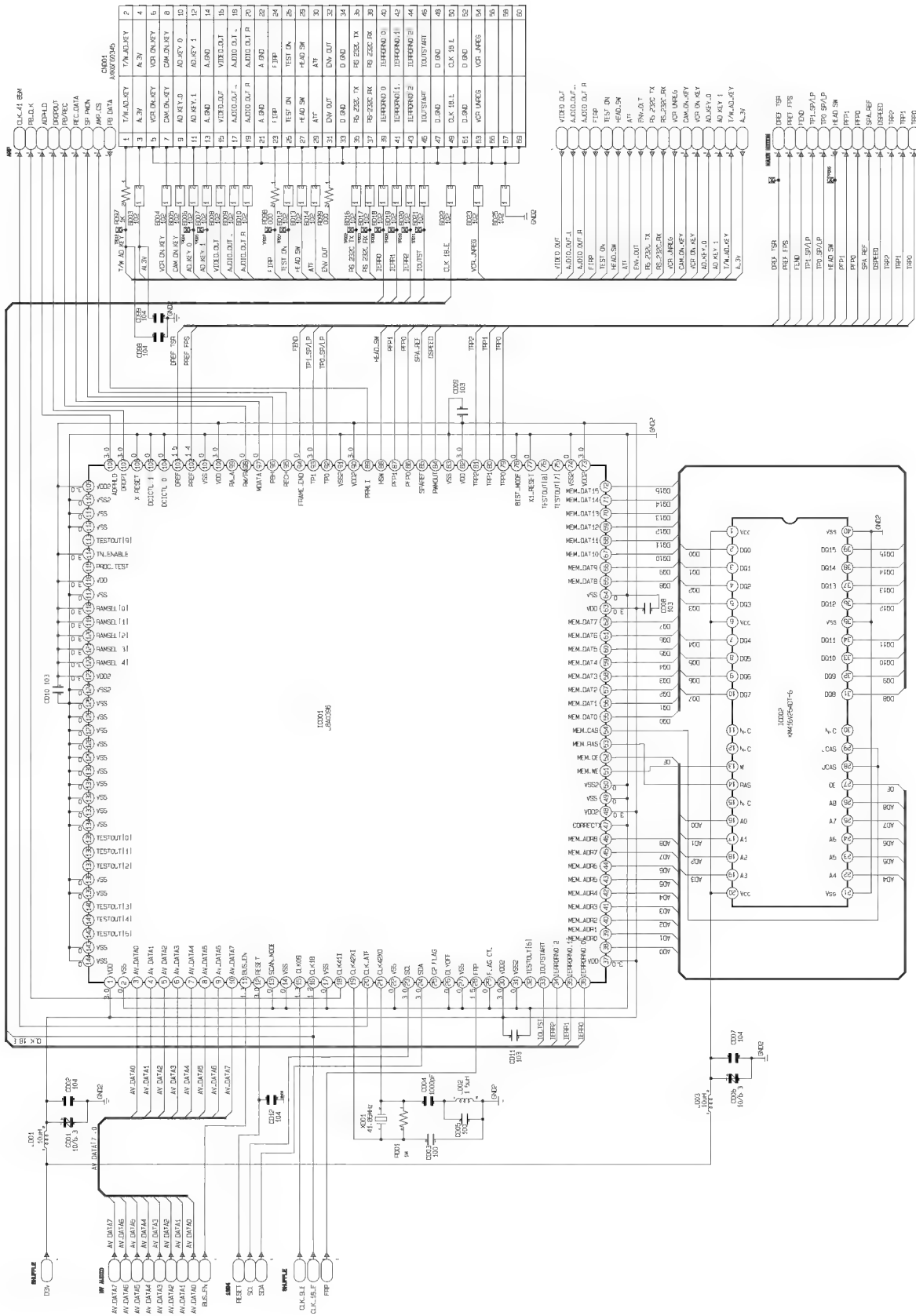
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## 8. Schematic Diagrams

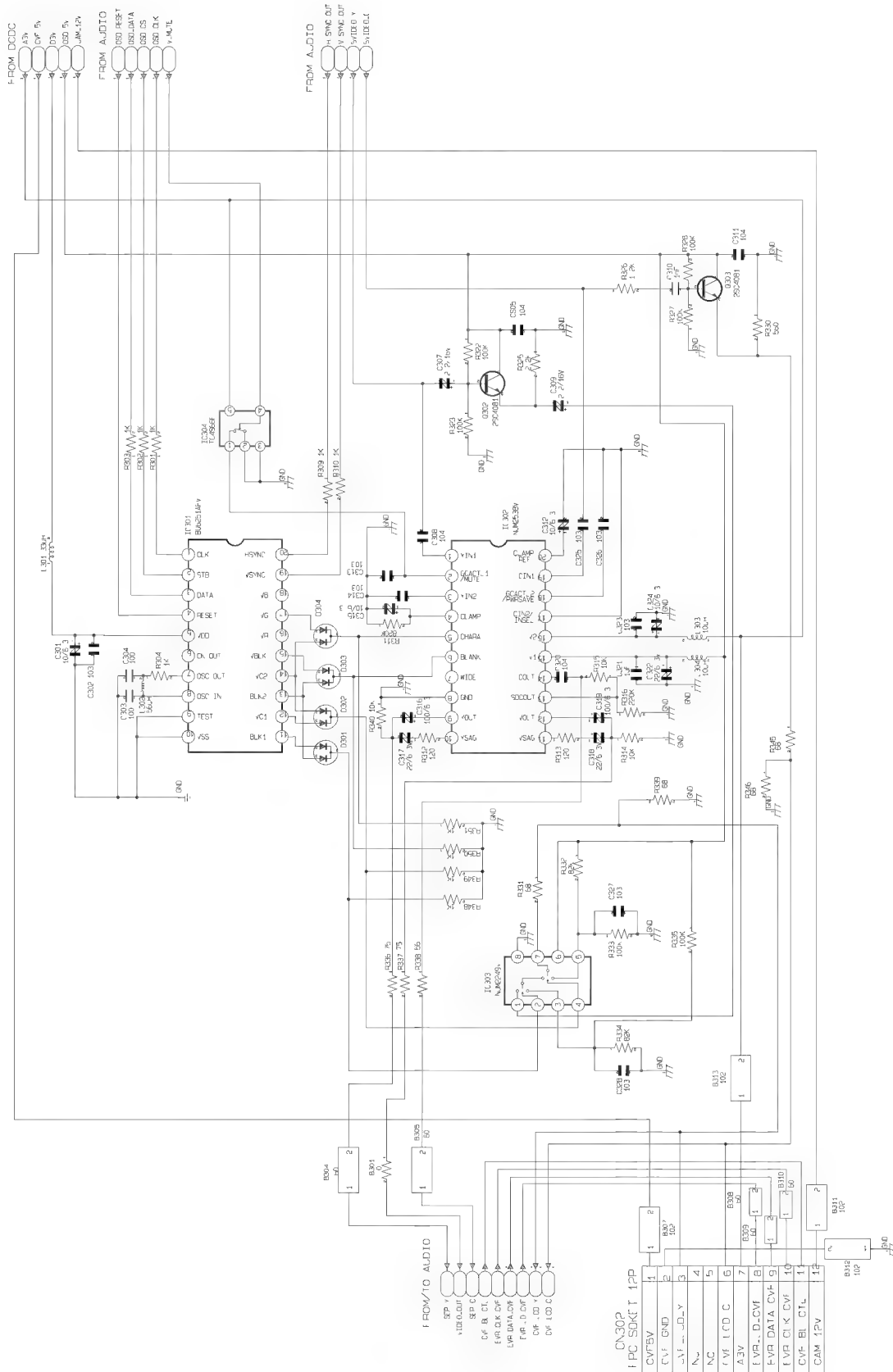
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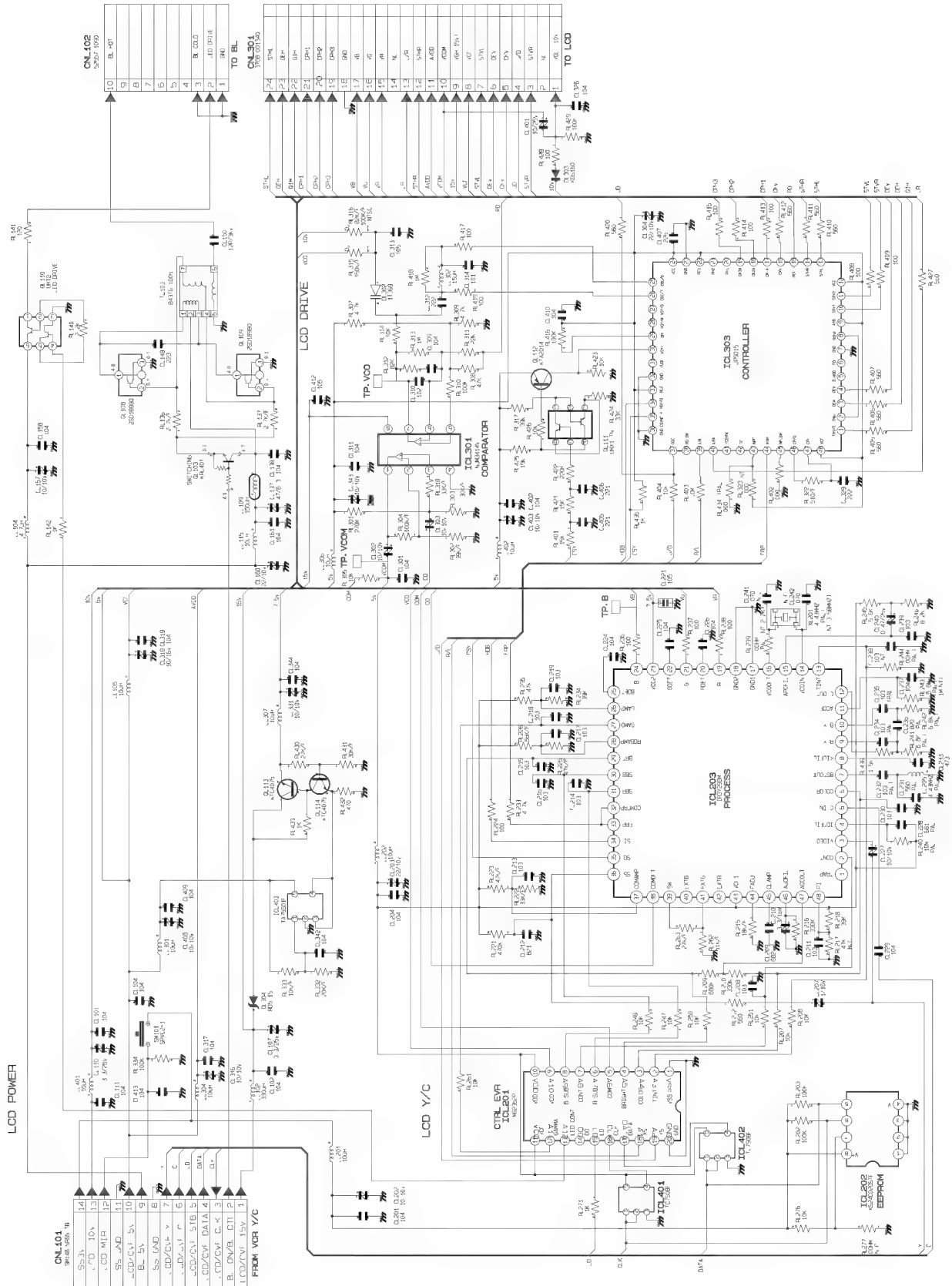
# 8-10 Channel



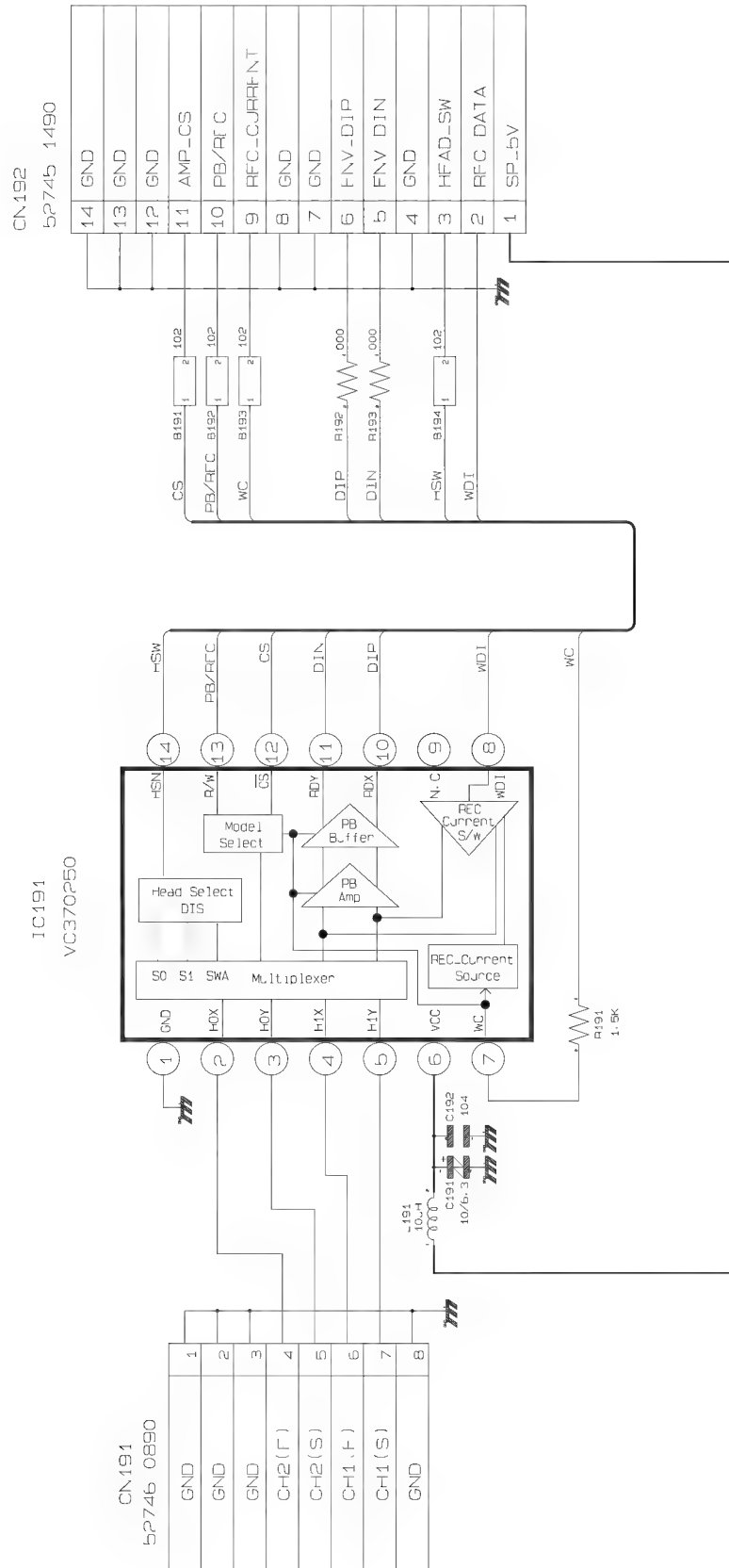
# 8-11 Video



# 8-12 LCD

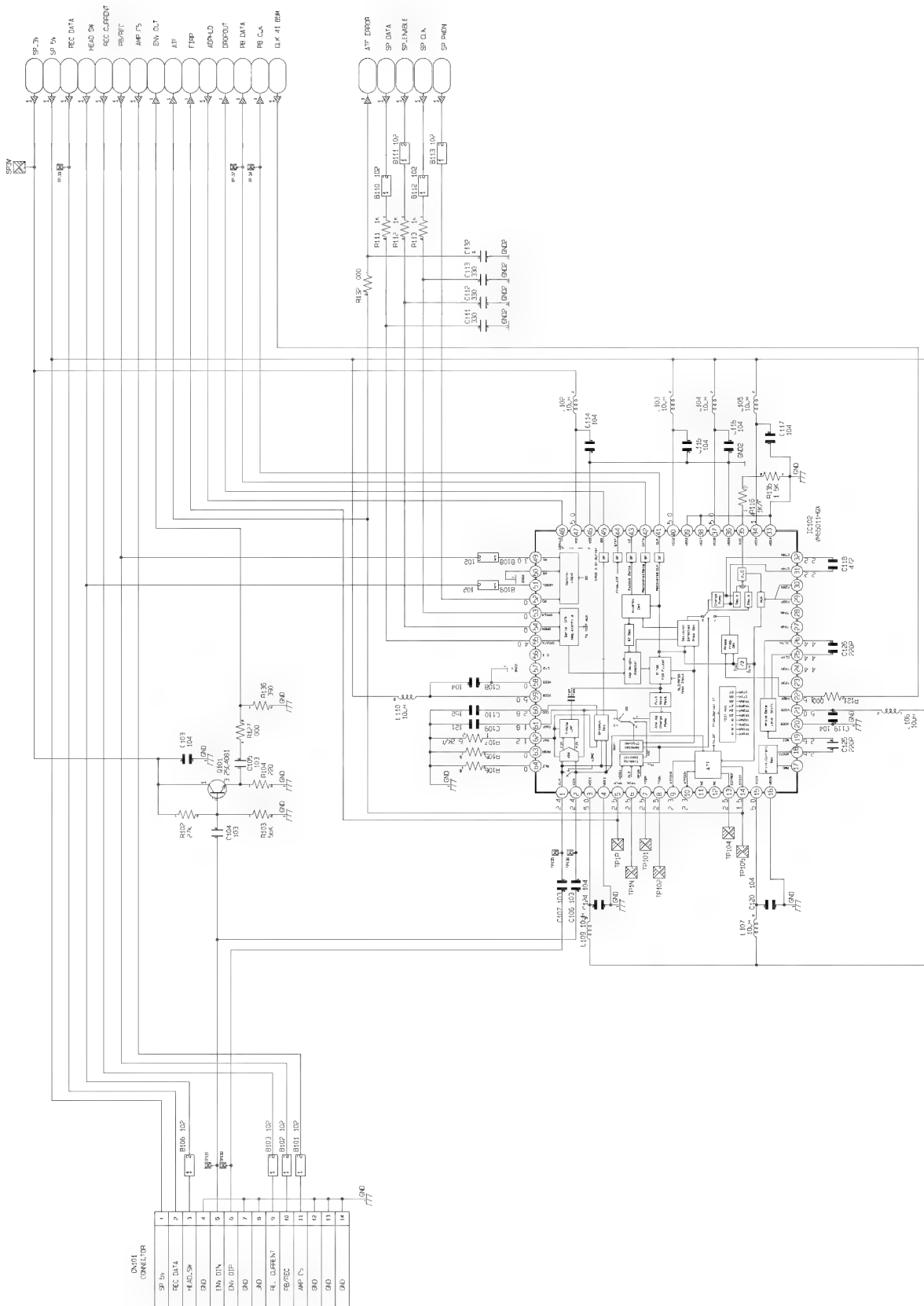


# 8-13 AMP

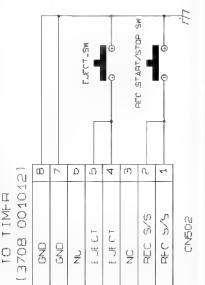
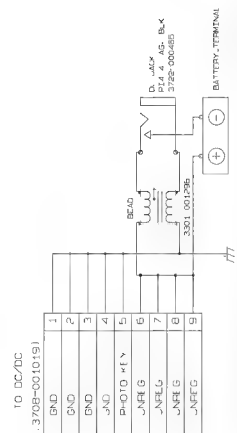
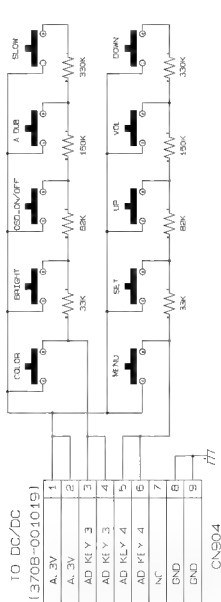
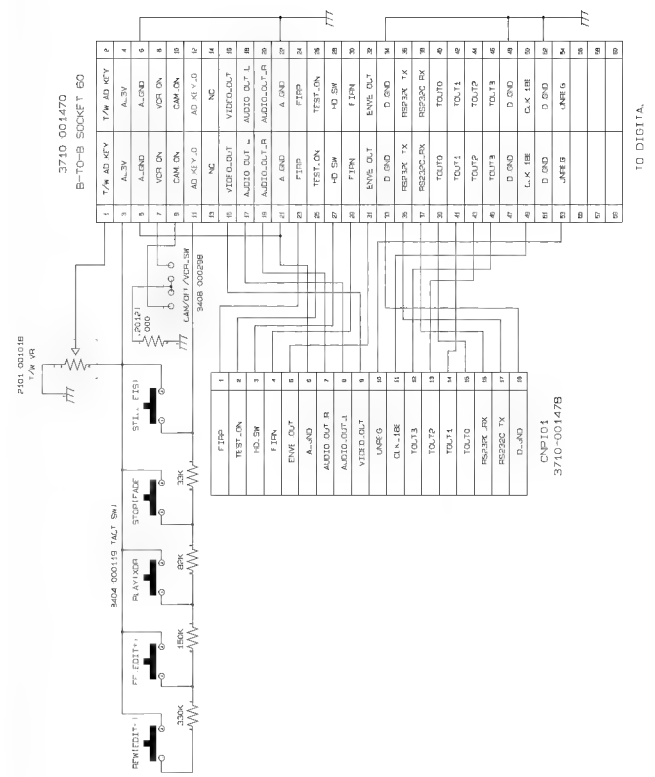
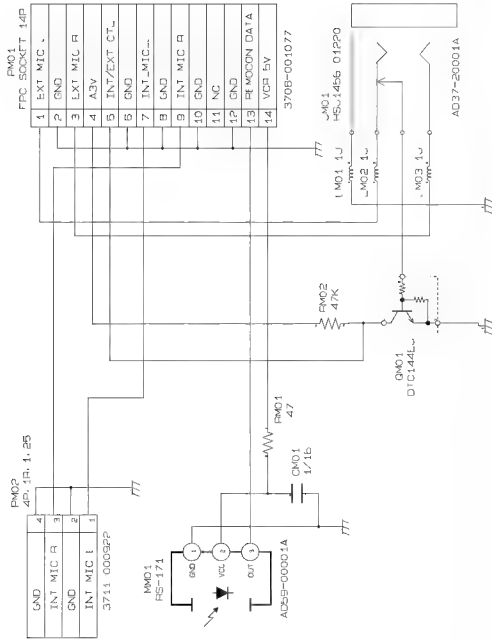




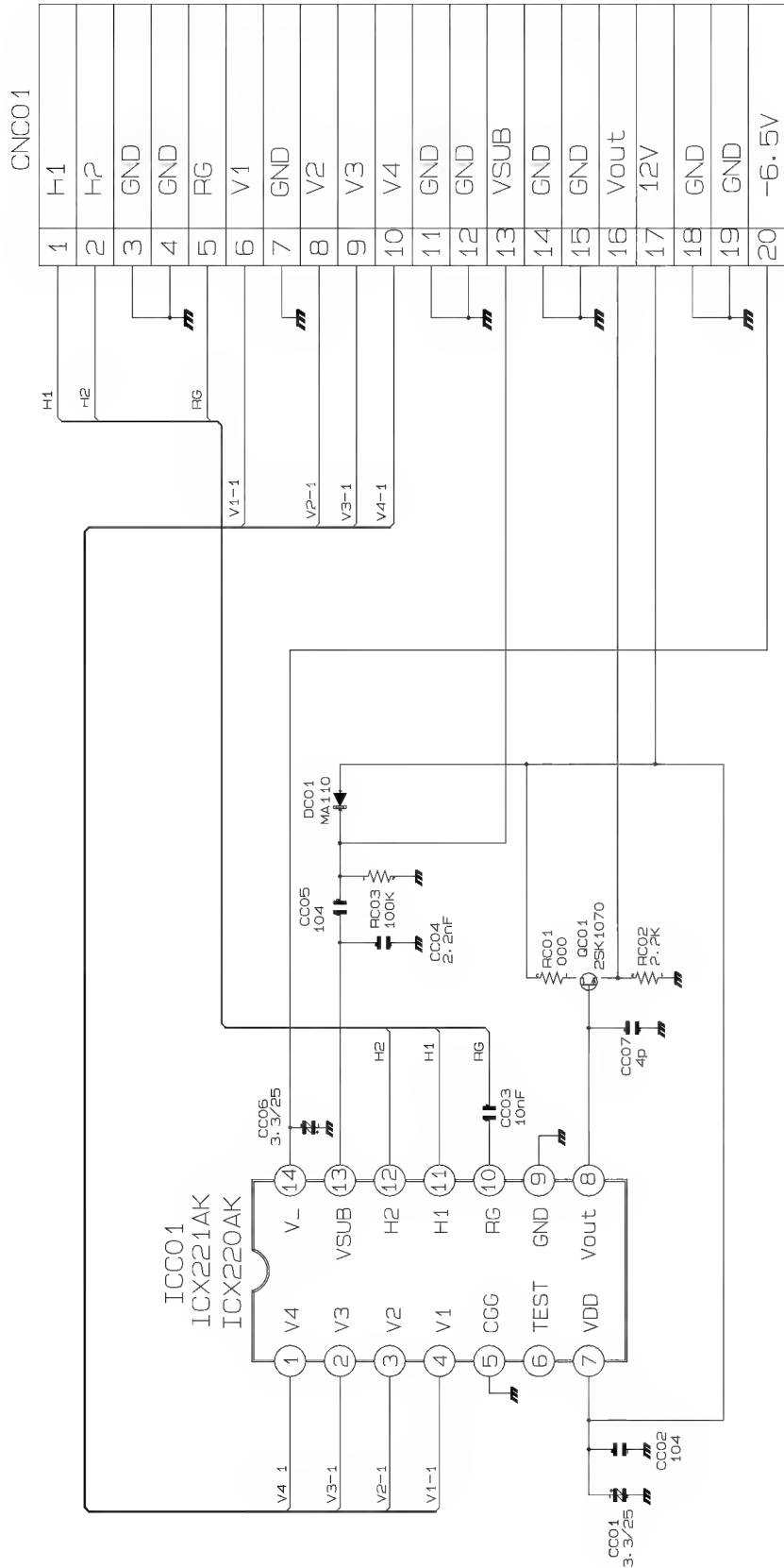
# 8-15 PRML



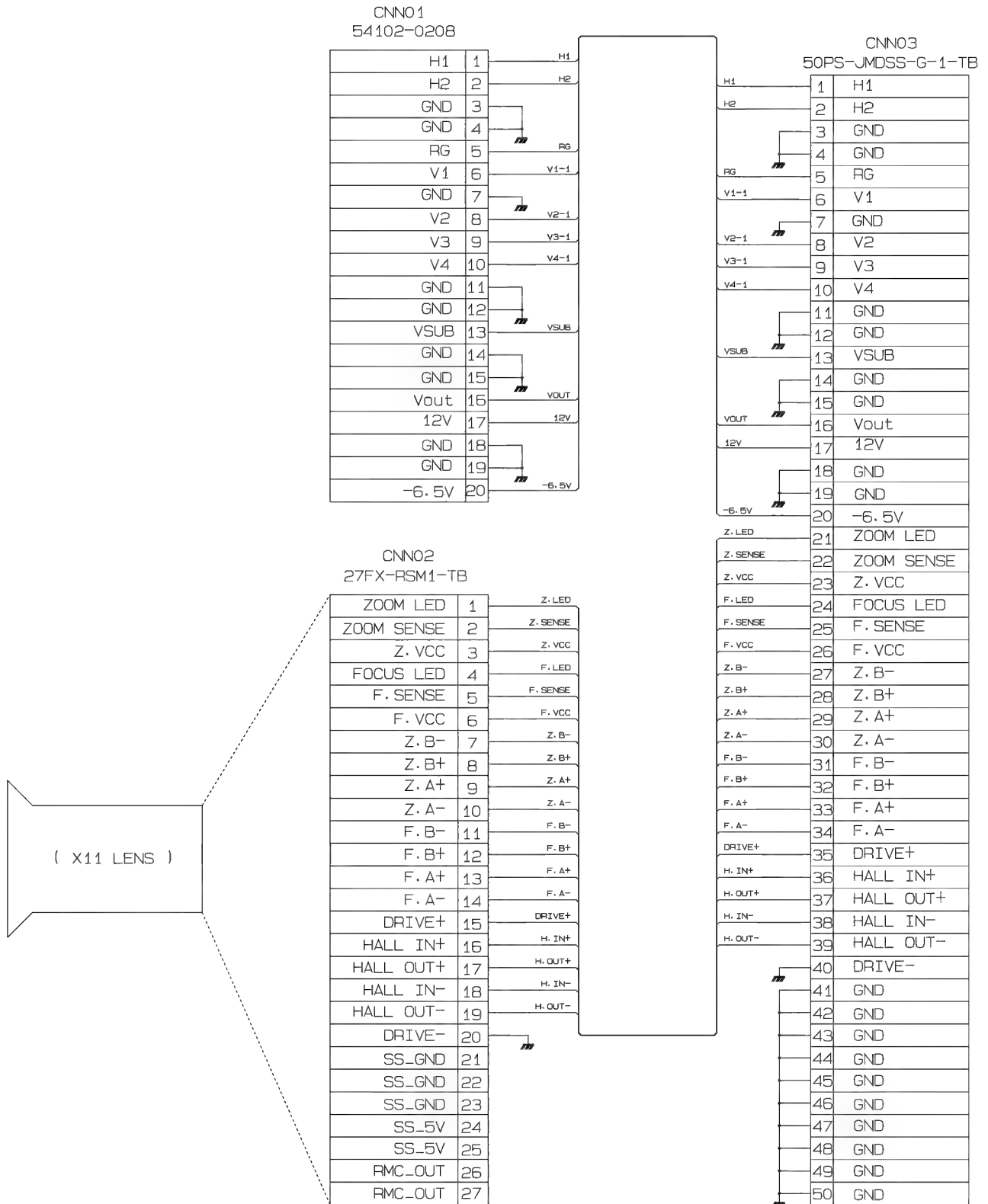
# 8-16 Sub



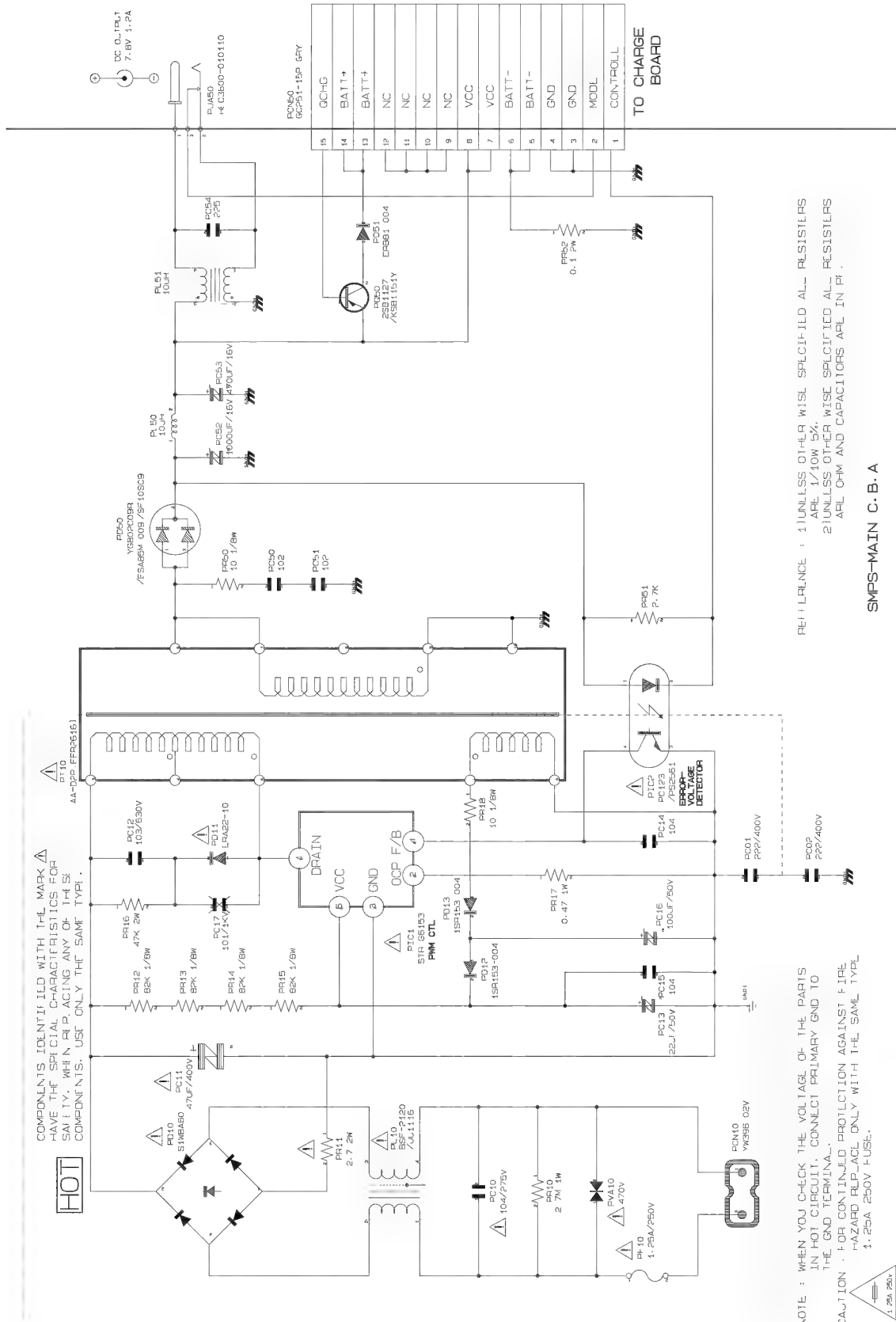
# 8-17 CCD



# 8-18 Connection

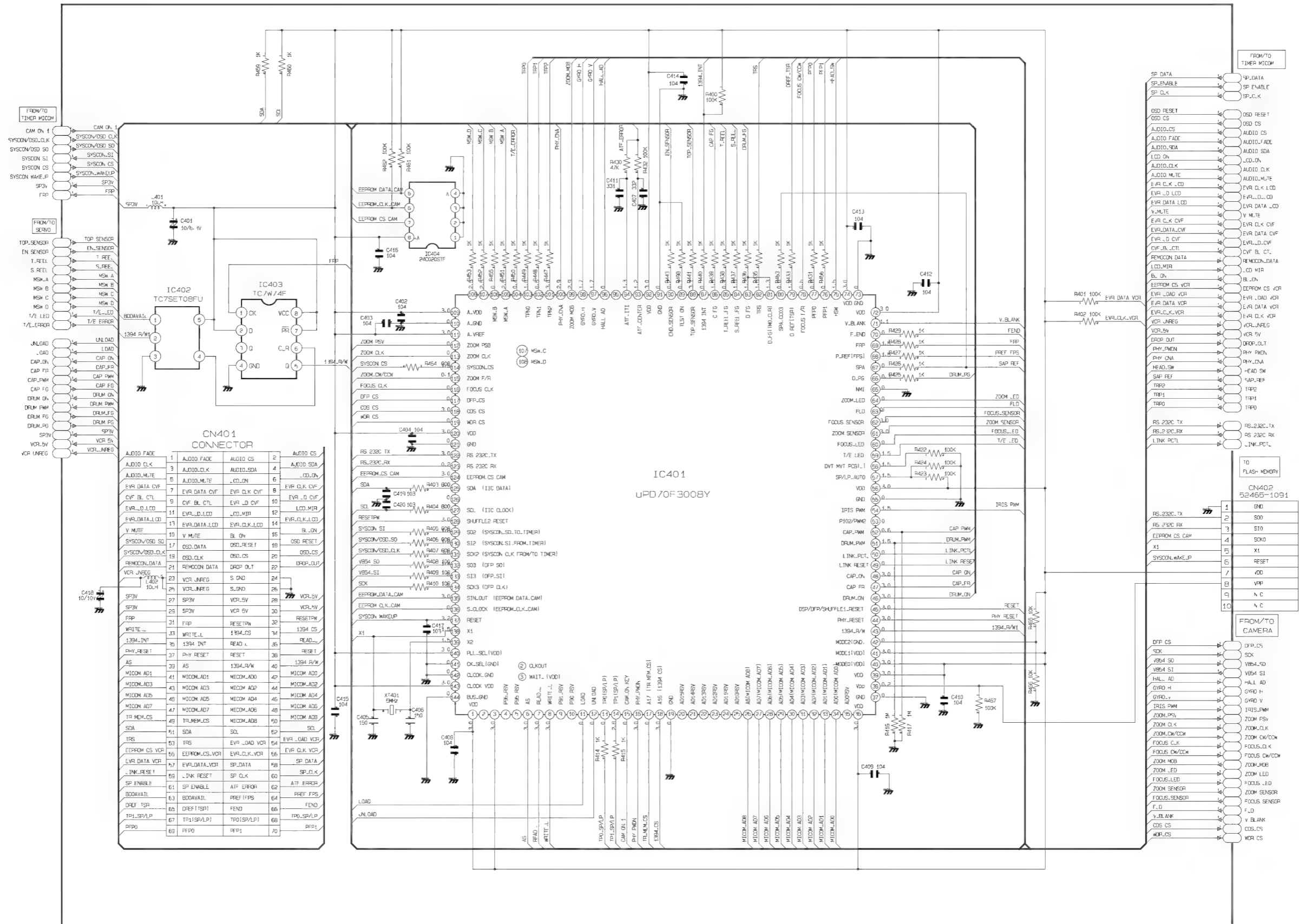


# 8-19 AC Power Adaptor

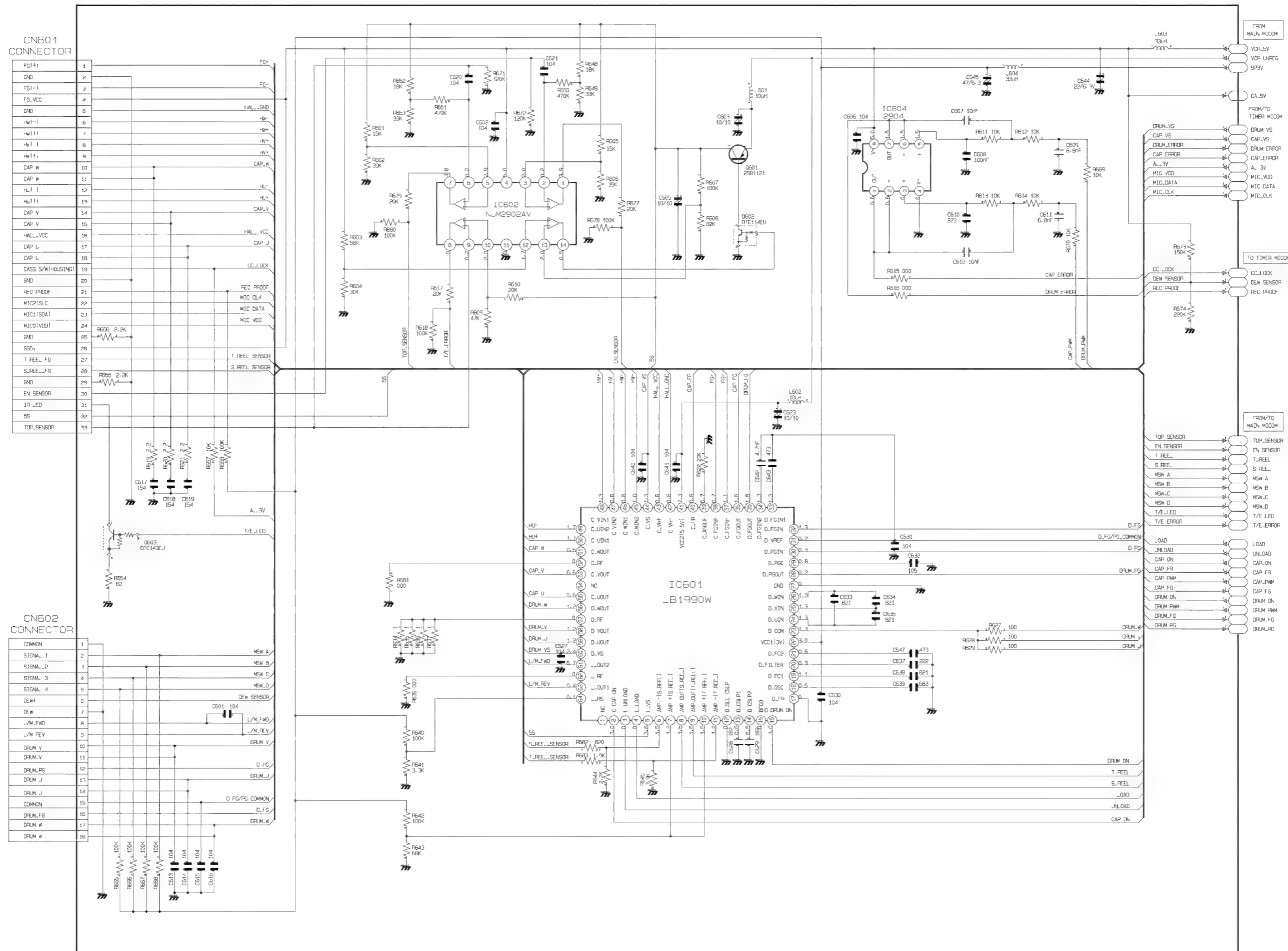




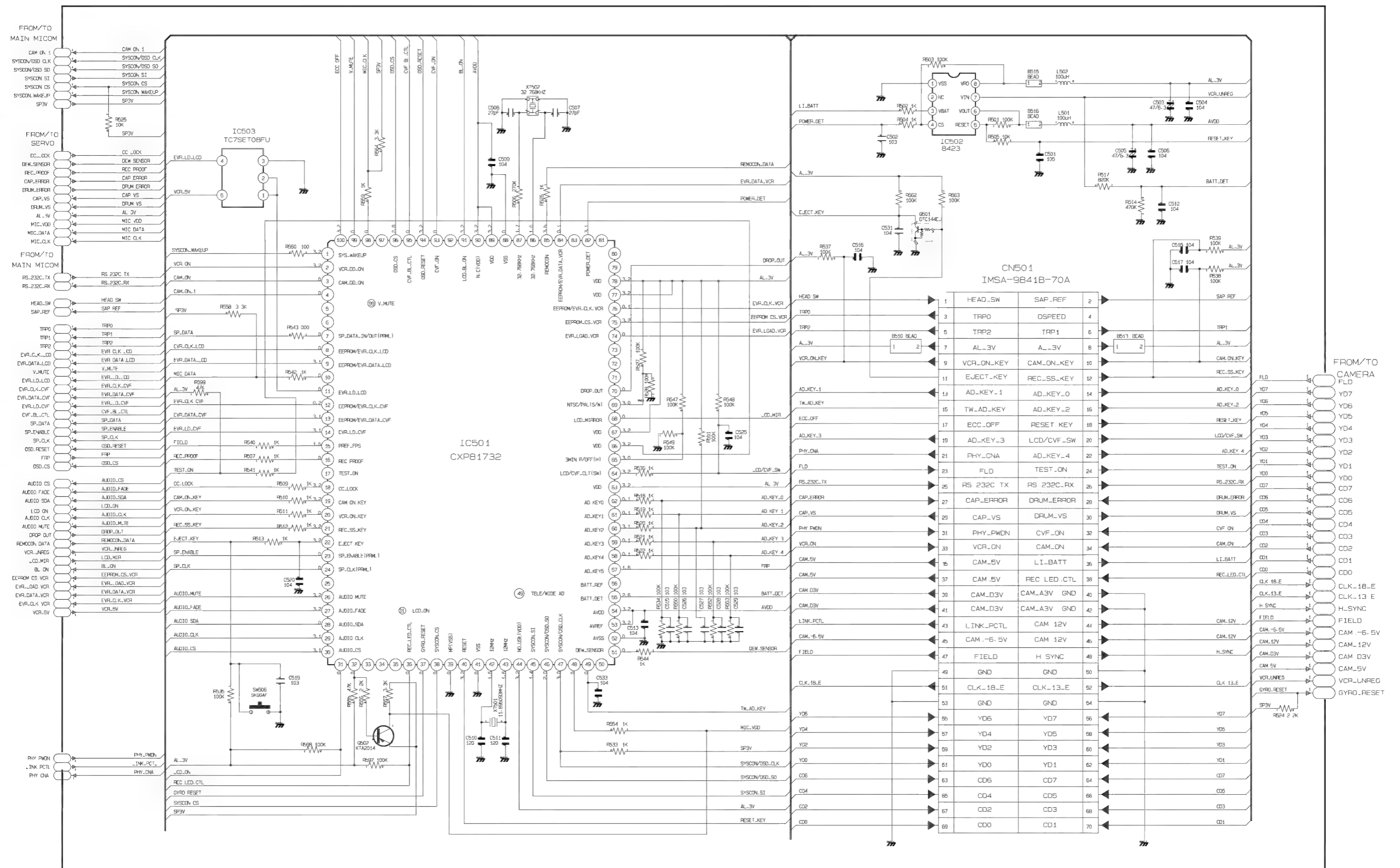
# 8-1 System Control



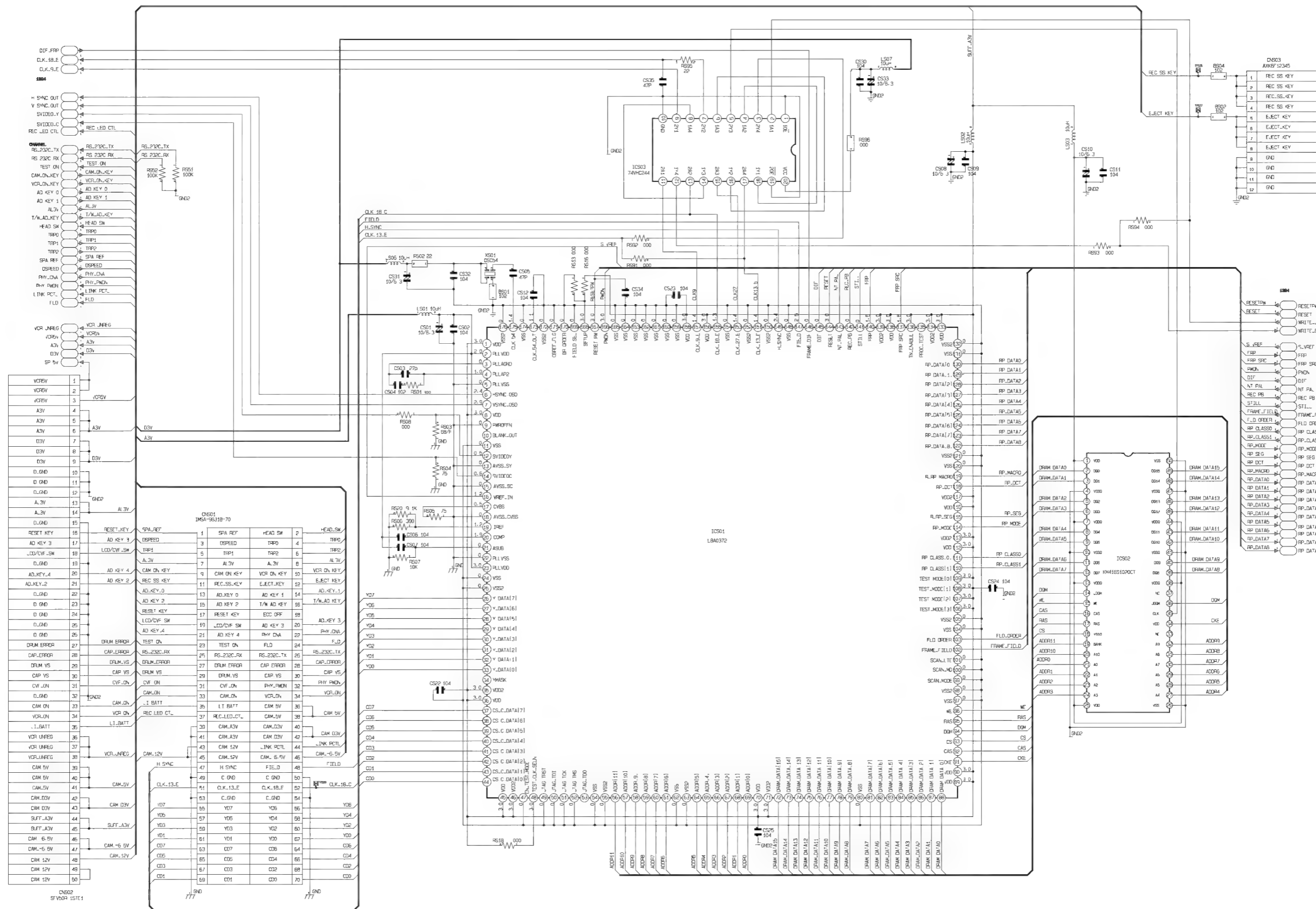
8-2 Servo



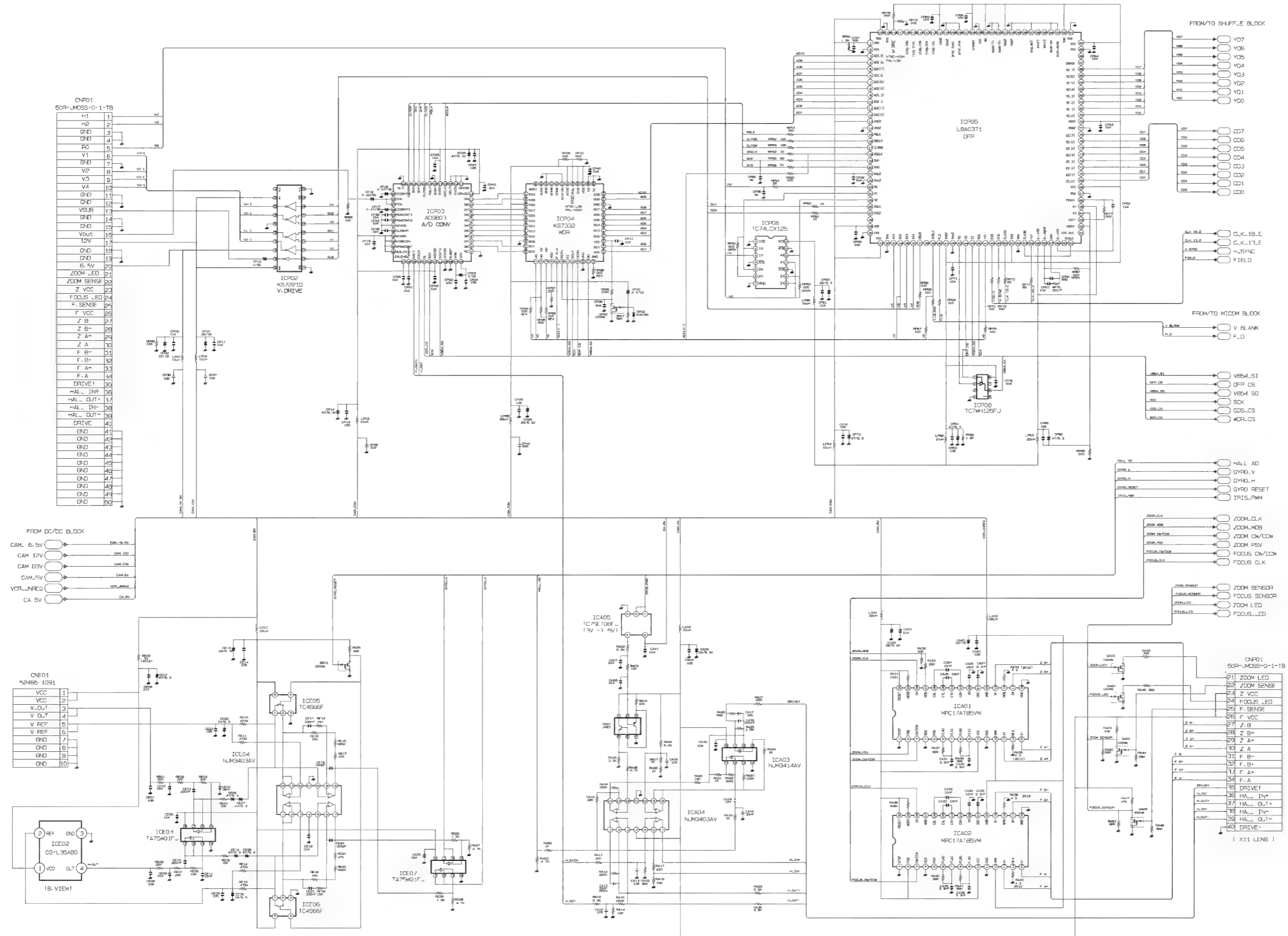
### 8-3 Timer



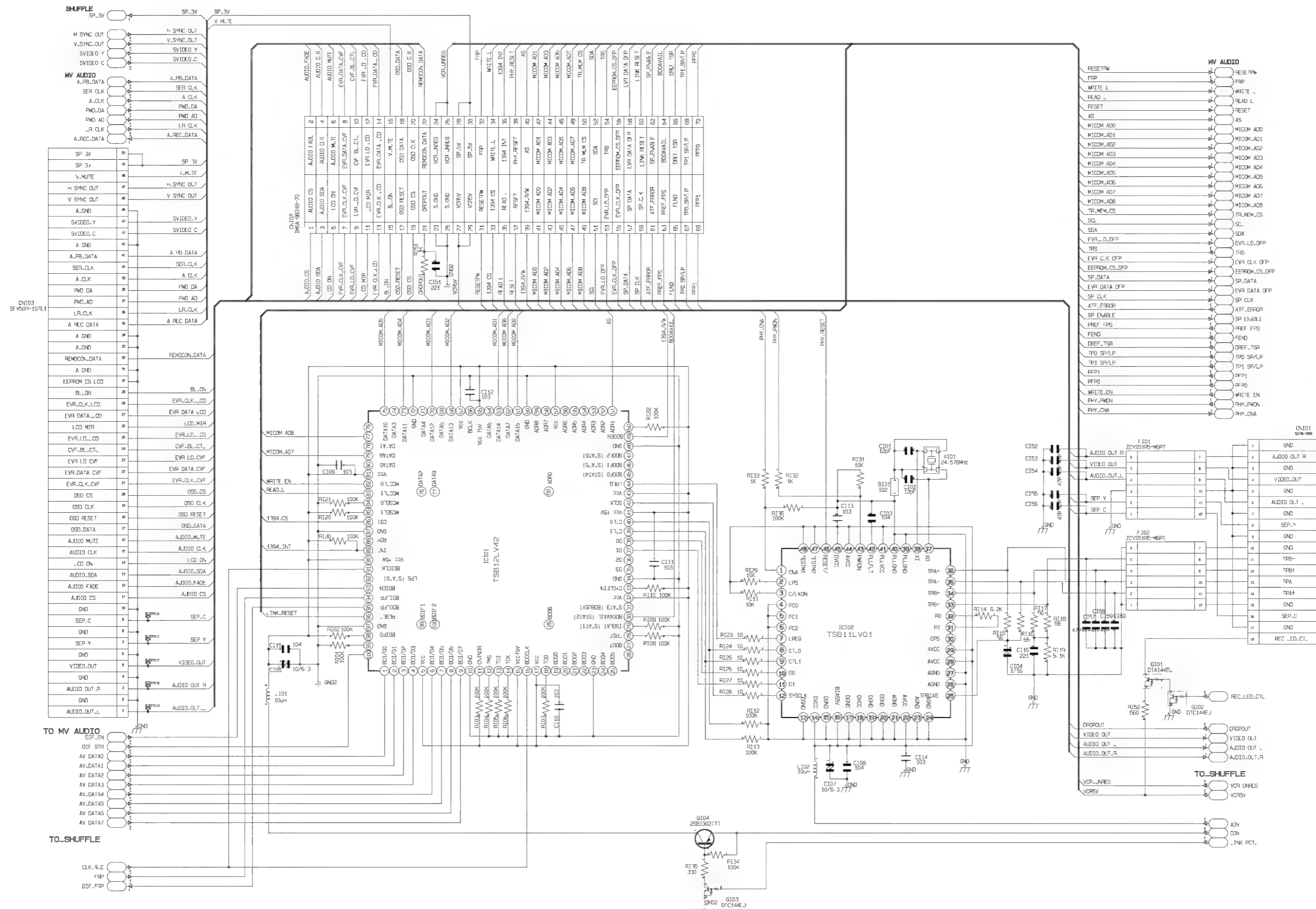
### 8-4 Shuffle



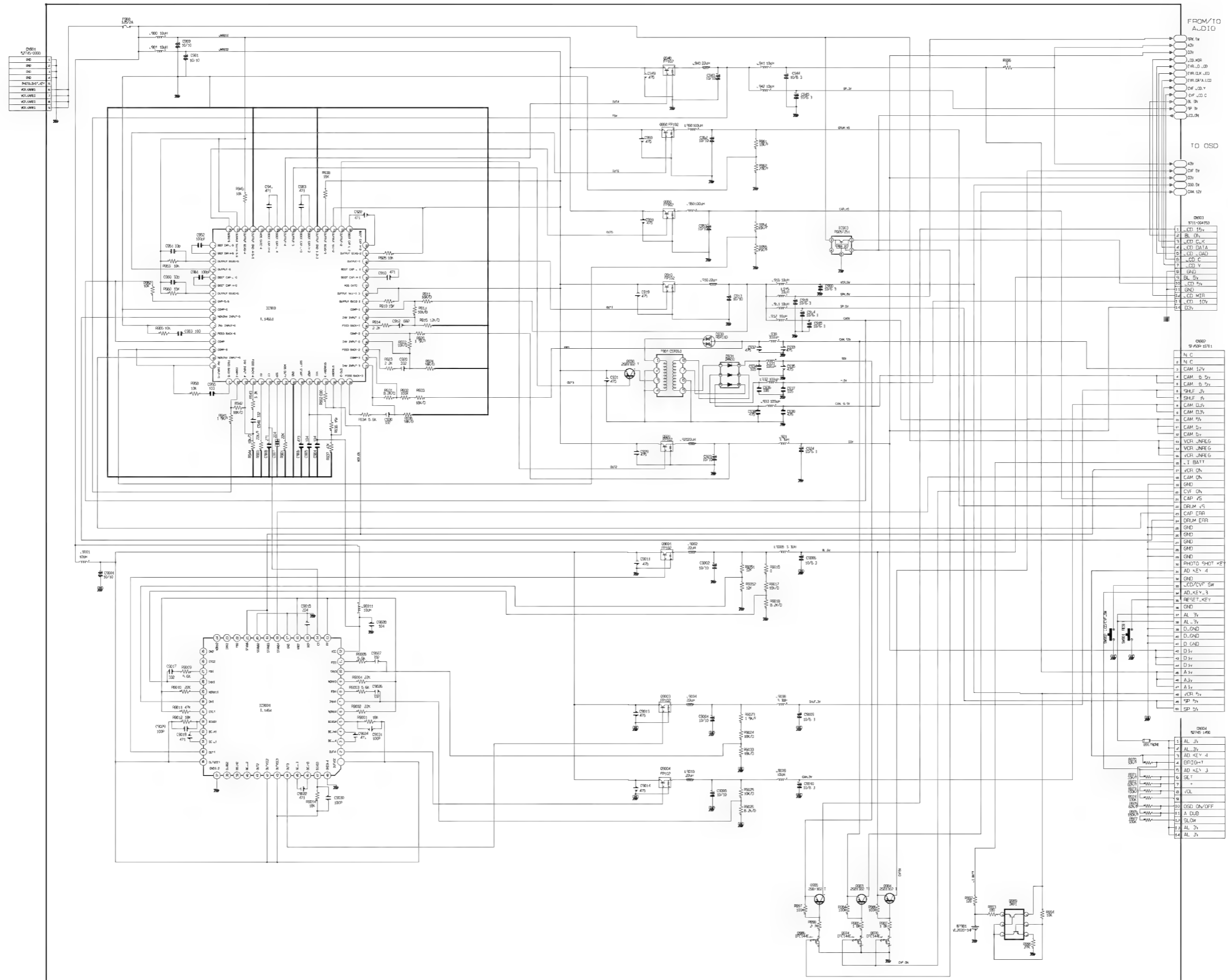
# 8-5 Camera



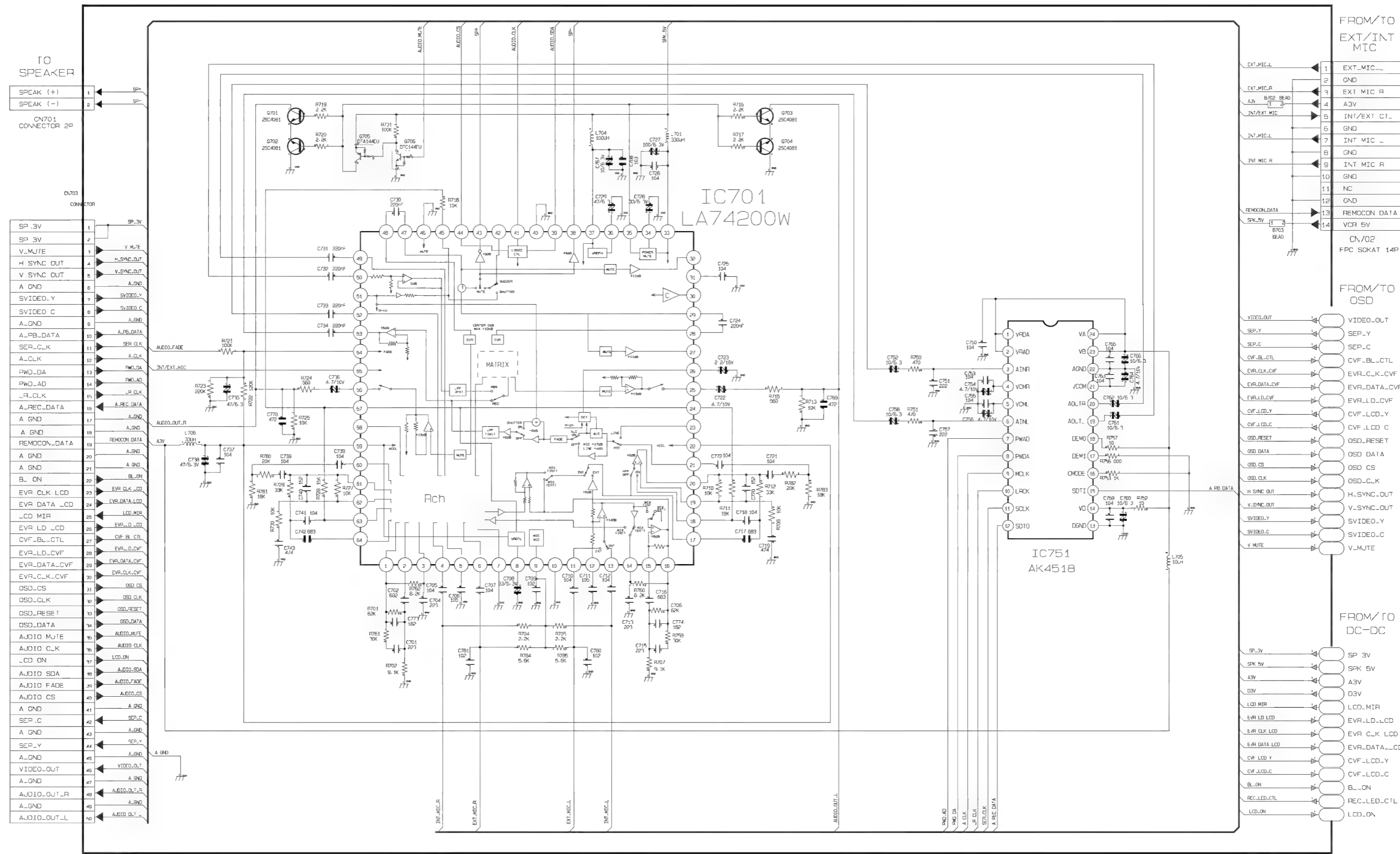
### 8-6 IEEE 1394



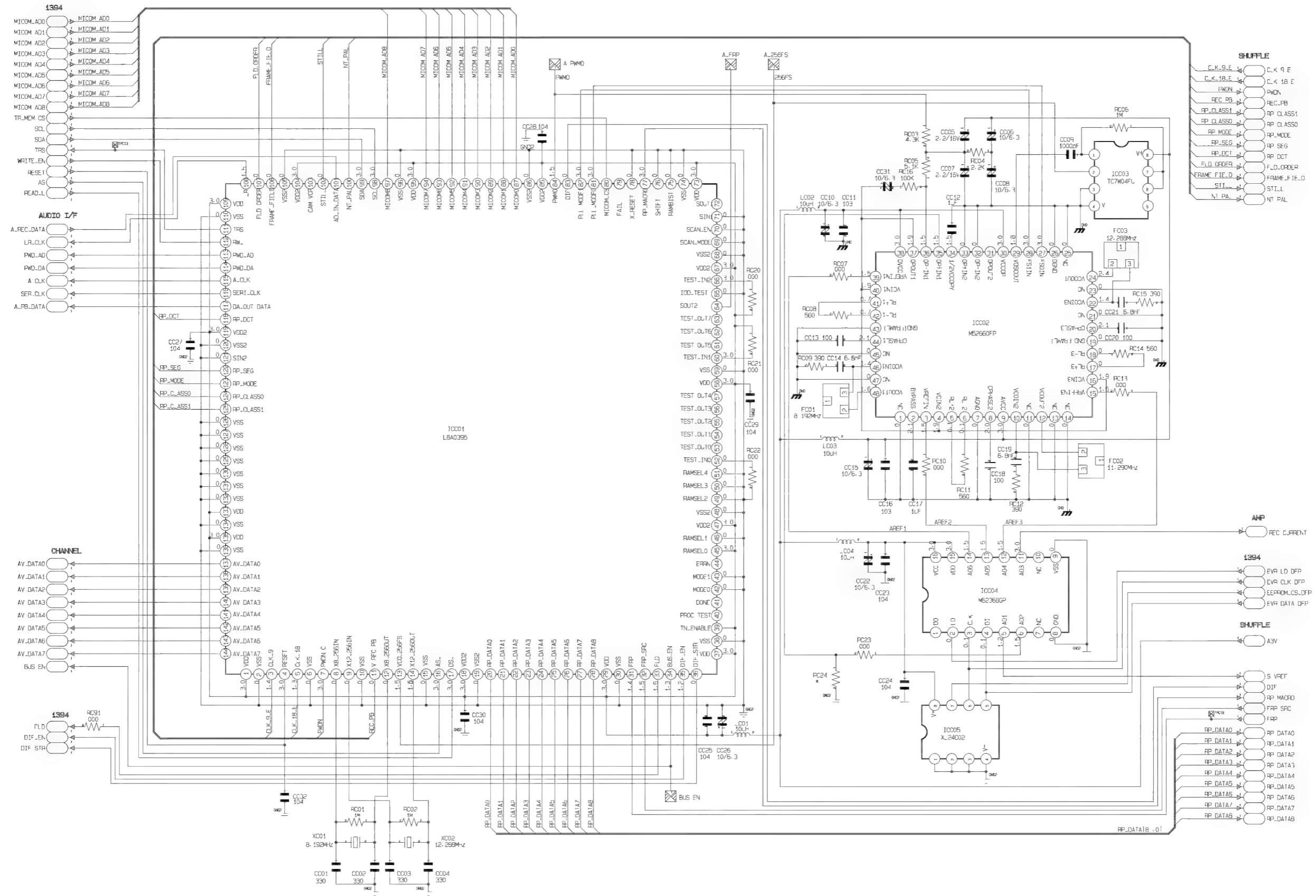
# 8-7 DC/DC Converter



# 8-8 Audio

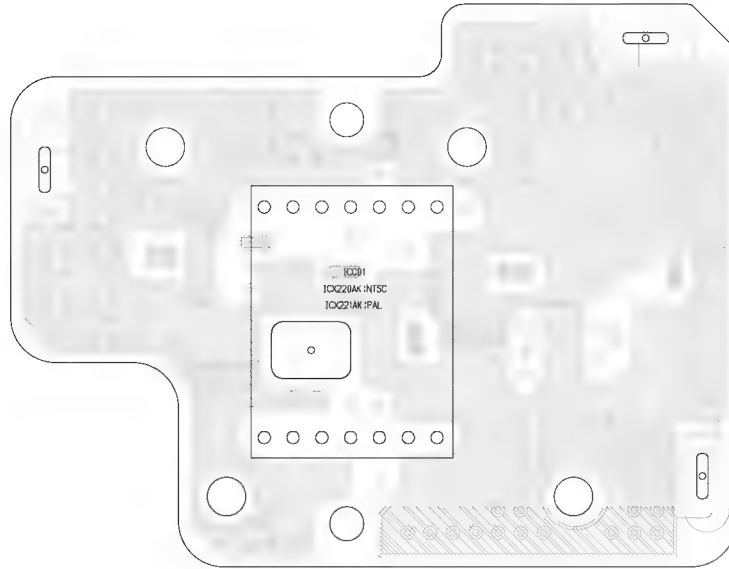


# 8-9 MV Audio

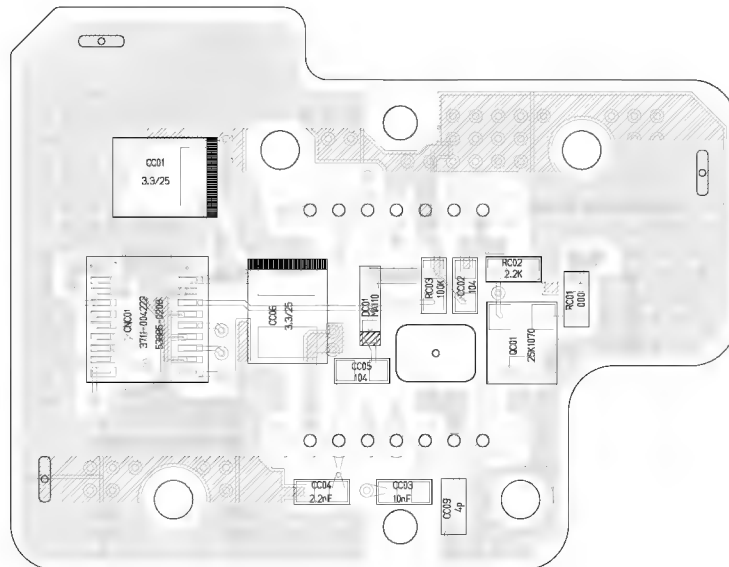


## 7-1. CCD PCB

### Component Side

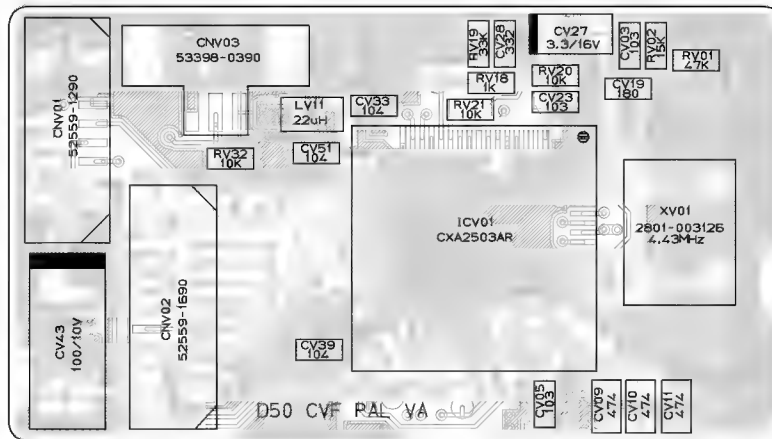


### Conductor Side

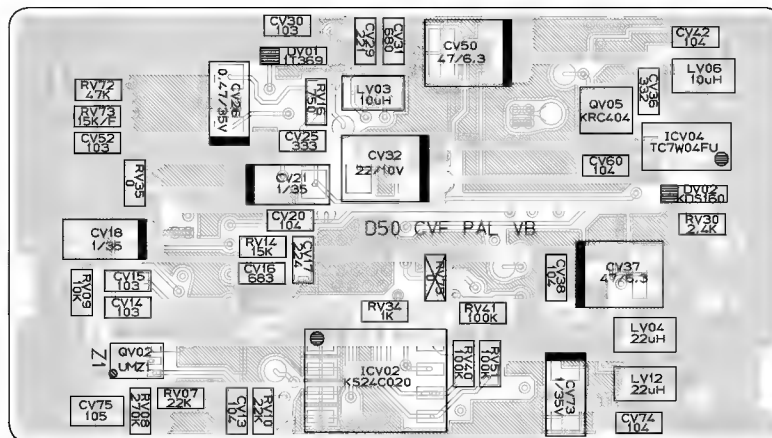


## 7-2. CVF PCB

### Component Side



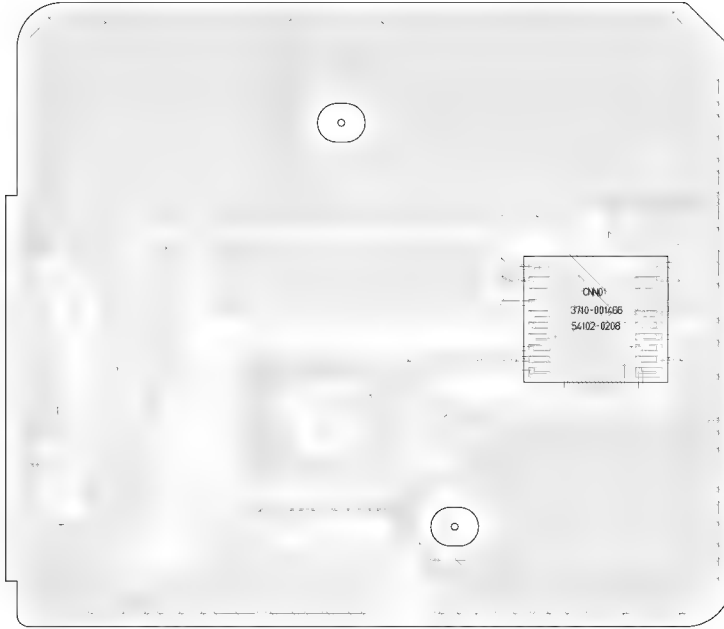
### Conductor Side



### 7-3. Connection PCB

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#### Component Side



#### Conductor Side

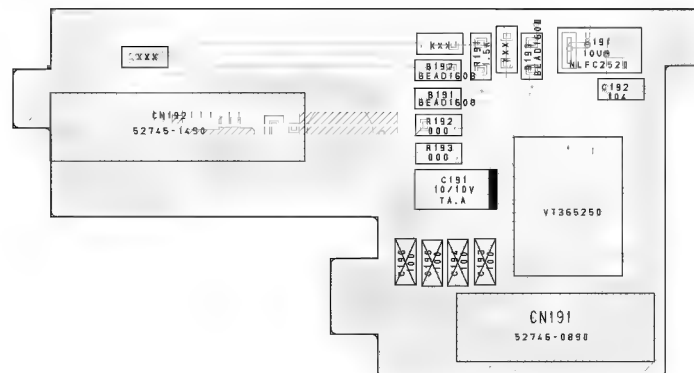


## 7-4. Pre-Amp PCB

### Component Side

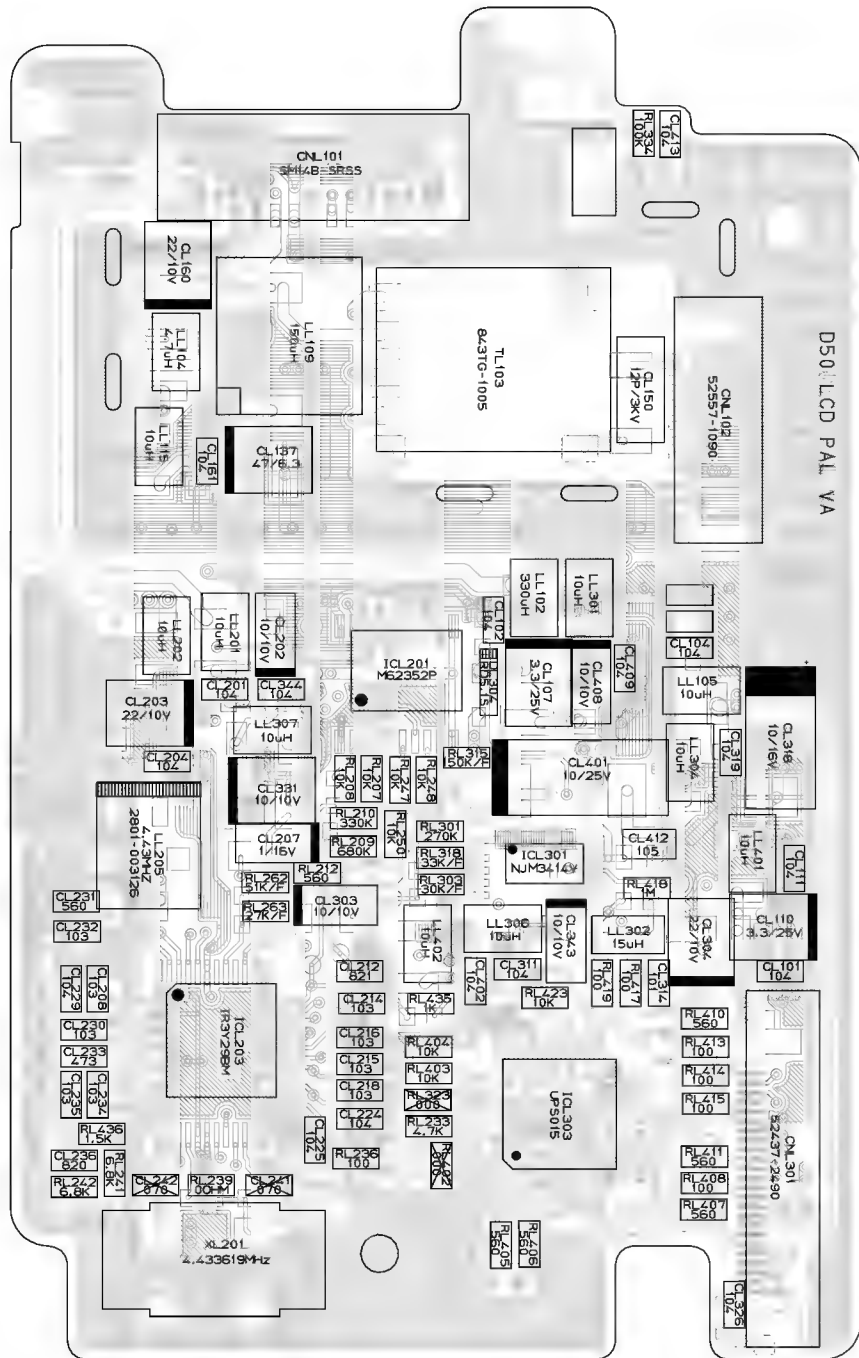


### Conductor Side



# 7-5. LCD PCB

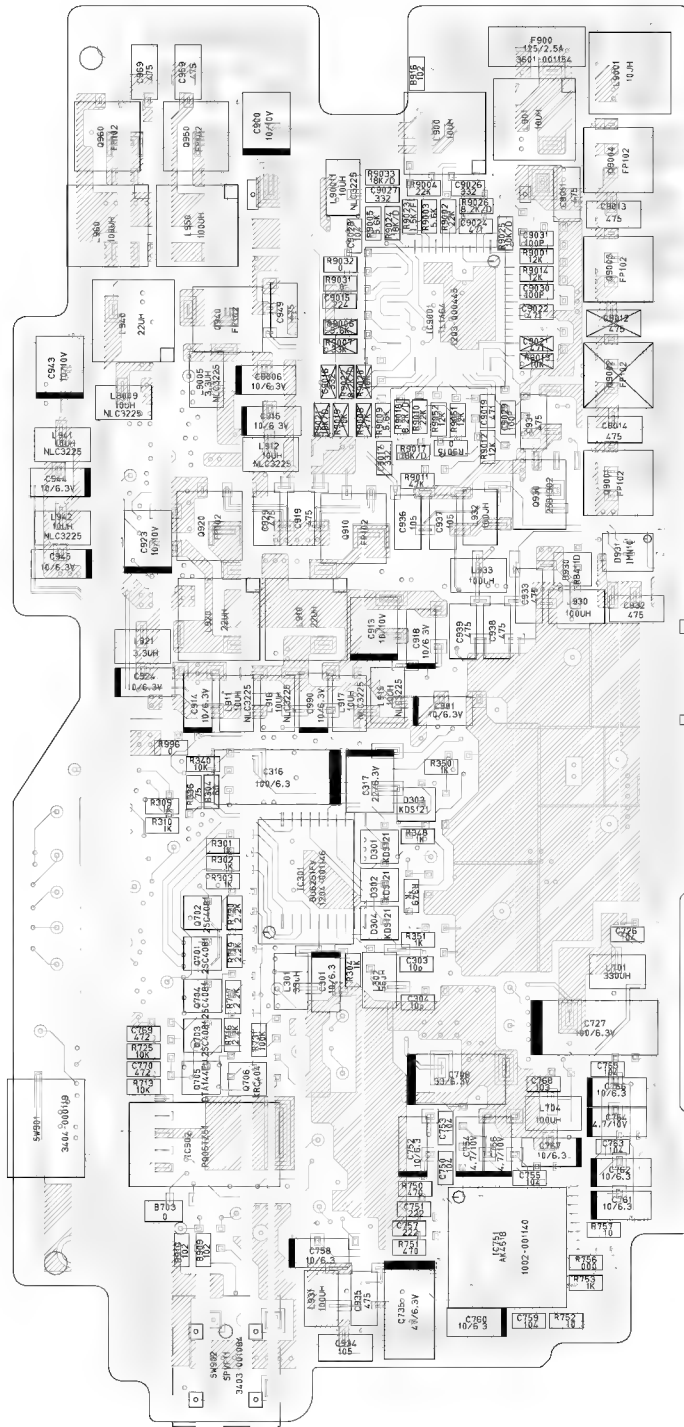
## Component Side



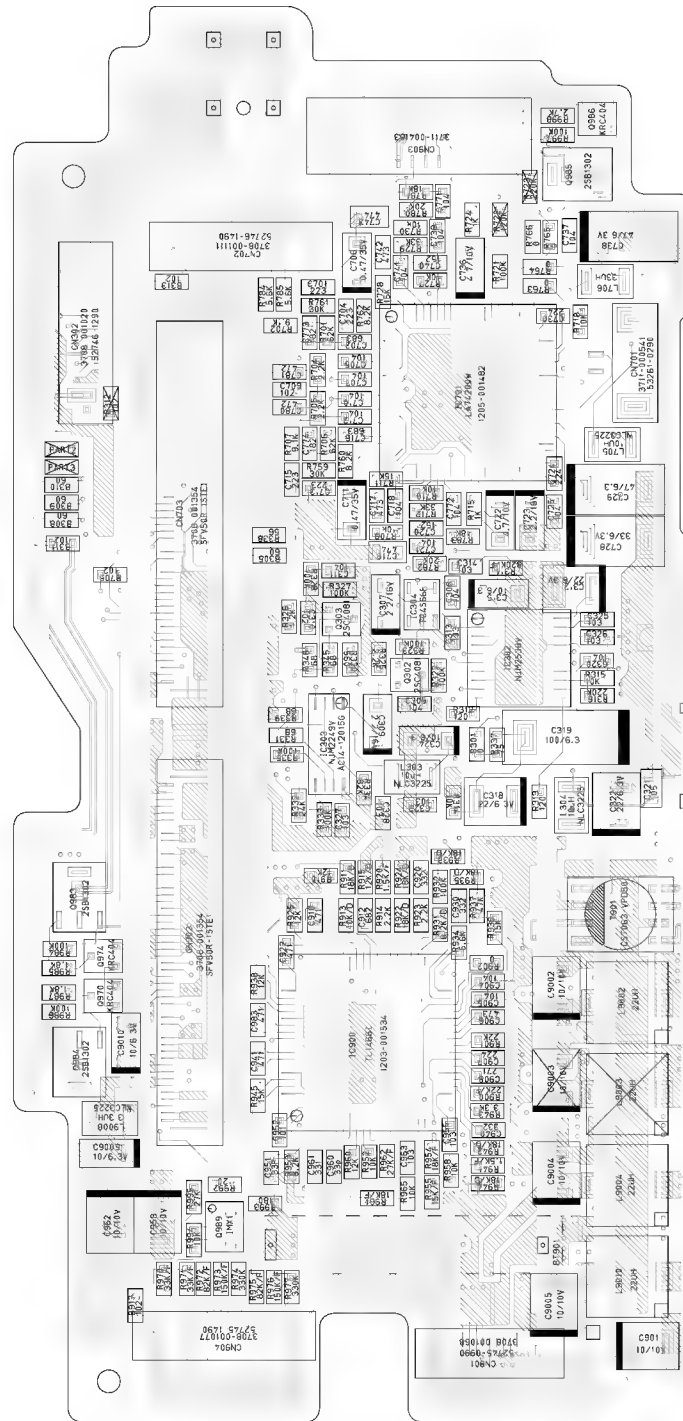


# 7-6. DC/DC Converter PCB

## Component Side



# Conductor Side

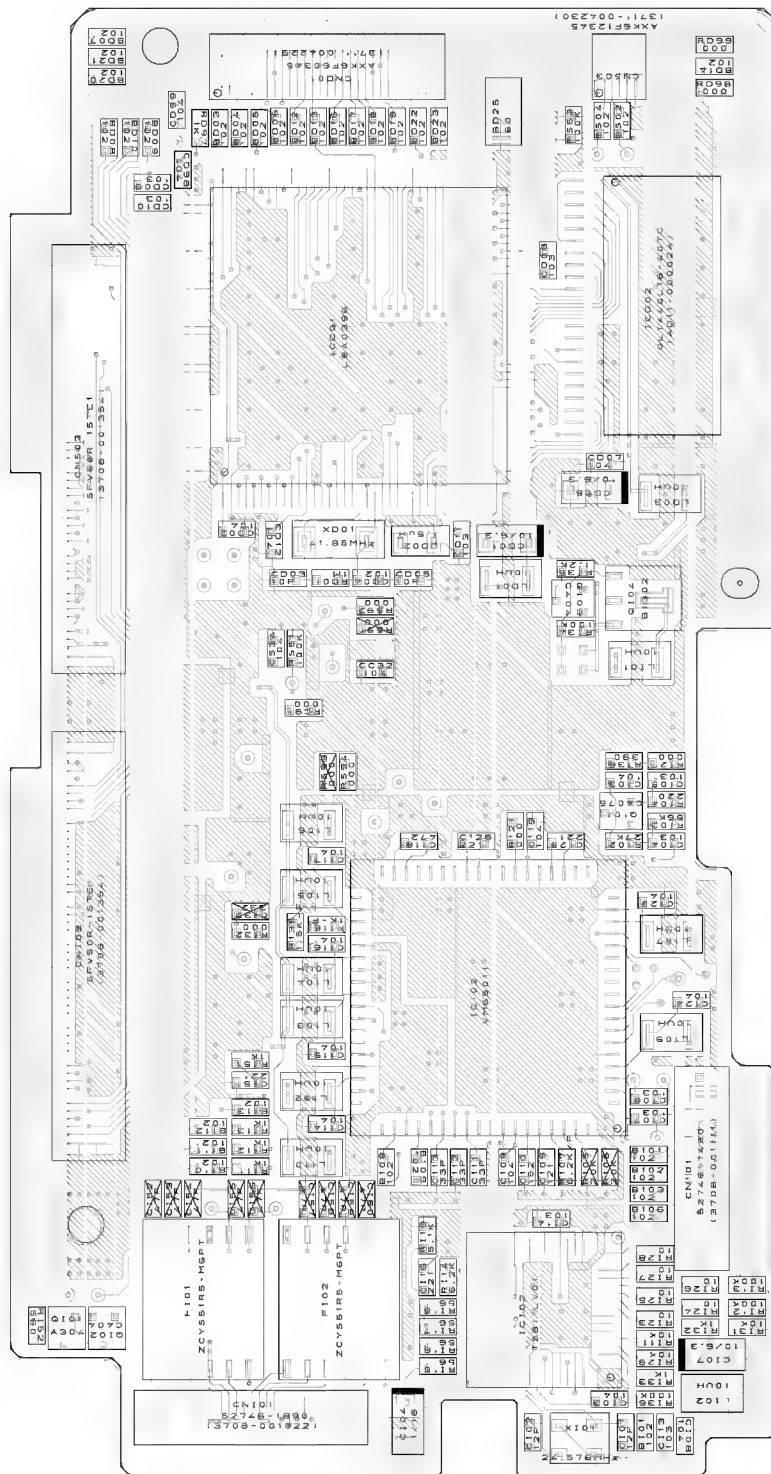








Conductor Side



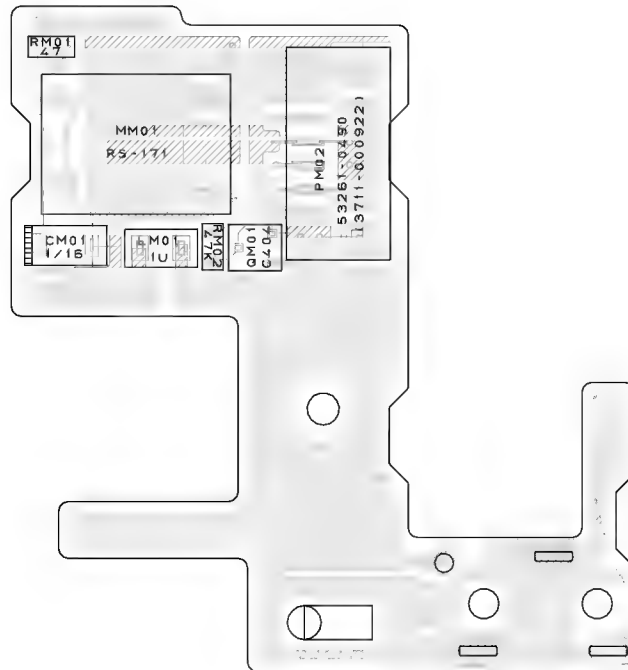
## 7-9. Mic PCB

---

### Component Side



### Conductor Side



MEMO

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
C637	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608		CE02	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C638	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,1608		CE03	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
C639	2203-001140	C-CERAMIC,CHIP;68nF,10%,16V,X7R,TP,1608,		CE04	2203-000372	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,1608,	
C640	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CE05	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
C641	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CE06	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C642	2203-000888	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,1608		CE07	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
C643	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,		CE08	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C644	2404-000304	C-TA,CHIP;22uF,20%,6.3V,-,TP,3528,-		CE09	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C645	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-		CE10	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
C647	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,		CE11	2203-000372	C-CERAMIC,CHIP;15nF,10%,50V,X7R,TP,1608,	
CA04	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CE12	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
CA05	2404-000304	C-TA,CHIP;22uF,20%,6.3V,-,TP,3528,-		CE13	2404-000304	C-TA,CHIP;22uF,20%,6.3V,-,TP,3528,-	
CA07	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CE14	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
CA08	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CE15	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
CA09	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CE16	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CA12	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CE17	2203-001630	C-CERAMIC,CHIP;330nF,+80-20%,16V,Y5V,TP,	
CA13	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CE18	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
CA14	2203-001634	C-CERAMIC,CHIP;33nF,10%,50V,X7R,TP,1608,		CE19	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CA15	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CE20	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
CA16	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,		CE21	2203-001630	C-CERAMIC,CHIP;330nF,+80-20%,16V,Y5V,TP,	
CA17	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CE22	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CA19	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CE23	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
CA20	2404-000190	C-TA,CHIP;22uF,20%,16V,-,TP,5832,-		CE25	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CA21	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CE26	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CA22	2404-000304	C-TA,CHIP;22uF,20%,6.3V,-,TP,3528,-		CE27	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
CA23	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CE28	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
CA24	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CN401	3711-004198	CONNECTOR-HEADER;BOX,70P,2R,0.5MM,SMD-S,	
CA25	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CN402	3710-001215	CONNECTOR-SOCKET;10P,2R,0.8mm,SMD-S,SN	
CA26	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CN501	3711-004418	CONNECTOR-HEADER;BOX,70P,2R,0.5mm,SMD-S,	
CA27	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		CN601	3708-001353	CONNECTOR-FPC/FC/PIC;33P,0.5MM,SMD-A,SN	
CA30	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		CN602	3708-001022	CONNECTOR-FPC/FC/PIC;18P,0.5mm,ANGLE,SN	
CA31	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		CNE01	3710-001215	CONNECTOR-SOCKET;10P,2R,0.8mm,SMD-S,SN	
CA32	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CNP01	3710-001498	CONNECTOR-SOCKET;50P,2R,0.5MM,SMD-S,AUF	
CA33	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CP08	2404-000190	C-TA,CHIP;22uF,20%,16V,-,TP,5832,-	
CA34	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CP09	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CA35	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		CP10	2404-000190	C-TA,CHIP;22uF,20%,16V,-,TP,5832,-	
CA38	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		CP11	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CA39	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		CP12	2404-000156	C-TA,CHIP;1uF,20%,35V,-,TP,3528,1.4mm	
CA41	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CP13	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
CE01	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CP14	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
CP15	2404-000251	C-TA,CHIP;470nF,20%,35V,-,TP;3216,-		CP69	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CP16	2404-000416	C-TA,CHIP;220nF,20%,50V,GP,TP;3426,-		CP71	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CP17	2404-000251	C-TA,CHIP;470nF,20%,35V,-,TP;3216,-		CP73	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP;3528,-	
CP18	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CP74	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,	
CP19	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CP76	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CP20	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CP91	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CP21	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CP92	2404-000304	C-TA,CHIP;22uF,20%,6.3V,-,TP;3528,-	
CP22	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		CP96	2203-001660	C-CERAMIC,CHIP;0.004nF,0.25pF,16V,Y5V,TP,	
CP23	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP;3216,-		DFP	AD69-00065A	PAD;VP-D50(DFP),FCU7500,1t,14mm,-,	
CP24	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		DP02	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	
CP25	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		IC401	AD09-00050A	IC-MICOM;703008YGJ-25-J15-8EU,-,-,-,Tra	
CP26	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP;3528,-		IC402	0801-002272	IC-CMOS LOGIC;TC7SET08FU(TE85L)AND GATE,	
CP27	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		IC403	0801-002001	IC-CMOS LOGIC;TC7W74FU,D FLIP-FLOP,SSOP,	
CP28	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		IC404	1103-001133	IC-EEPROM;24C020,256x8BIT,SOP,8P,150MIL,	
CP29	2404-000304	C-TA,CHIP;22uF,20%,6.3V,-,TP;3528,-		IC501	AD09-00051A	IC-MICOM;CXP81732A-513Q,-,-,-,QFP,-,-,-	
CP30	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		IC502	1203-001021	IC-VOLTAGE REGULATOR;8423,SOP,8P,251MIL,	
CP31	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP;3216,-		IC503	0801-002272	IC-CMOS LOGIC;TC7SET08FU(TE85L)AND GATE,	
CP32	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		IC601	1003-001241	IC-MOTOR DRIVER;LB11990W,SQPF;64P,-,-,1A	
CP33	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		IC602	1201-000240	IC-OP AMP;2902,SOP,14P,173MIL,QUAD,15V/m	
CP36	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		IC604	1201-000181	IC-OP AMP;2904,SOP,8P,150MIL,DUAL,15V/mV	
CP37	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		ICA01	1003-001071	IC-MOTOR DRIVER;MPC17AT85VM,SOP,30P,206M	
CP38	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		ICA02	1003-001071	IC-MOTOR DRIVER;MPC17AT85VM,SOP,30P,206M	
CP40	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		ICA03	1201-000200	IC-OP AMP;3414,SOP,8P,173MIL,DUAL,-,PLAS	
CP41	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		ICA04	1201-000246	IC-OP AMP;3403,SOP,14P,173MIL,QUAD,20V/m	
CP42	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		ICA05	0801-002272	IC-CMOS LOGIC;TC7SET08FU(TE85L)AND GATE,	
CP43	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		ICE02	AD32-00003A	SENSOR-GYRO;CG-L35AB0,-5TO75,100HZ,-	
CP44	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		ICE03	1201-001376	IC-OP AMP;TA75W01FU,SSOP,8P;110MIL,DUAL	
CP53	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		ICE04	1201-000246	IC-OP AMP;3403,SOP,14P,173MIL,QUAD,20V/m	
CP54	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP;3528,-		ICE05	AC14-12007X	IC-LOGIC;TC4S66F(TE85R),SSOP-5,5P	
CP55	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		ICE06	AC14-12007X	IC-LOGIC;TC4S66F(TE85R),SSOP-5,5P	
CP56	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP;3528,-		ICE07	1201-001376	IC-OP AMP;TA75W01FU,SSOP,8P;110MIL,DUAL	
CP57	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		ICP02	1003-001065	IC-CLOCK DRIVER;KS7221D,SOP,20P,225MIL,Q	
CP58	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		ICP03	1002-001192	IC-A/D CONVERTER;AD9803JST80016R3,10,LQF	
CP59	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		ICP04	AD14-10002E	IC-WDR;KS7332,QFP,48P	
CP60	2203-001683	C-CERAMIC,CHIP;0.068nF,5%,50V,NP0,TP,160		ICP05	AD14-10001Y	IC-DFP;L8A0371,QFP,DFP-120P	
CP61	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-		ICP06	0801-002257	IC-CMOS LOGIC;TC74LCX125FT,BUS BUFFER,SO	
CP62	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		ICP08	0801-002429	IC-CMOS LOGIC;TC7W125U,BUS BUFFER	
CP63	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		L401	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CP64	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		L402	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CP68	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		L501	2703-001800	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
L502	2703-001800	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM		R414	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
L601	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R415	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
L602	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R416	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
L603	2703-001799	INDUCTOR-SMD;33UH,10%,3.2X2.5X2.2MM		R417	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
L604	2703-001799	INDUCTOR-SMD;33UH,10%,3.2X2.5X2.2MM		R425	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LA02	2703-001572	INDUCTOR-SMD;22uH,10%,3.2x2.5x2.2mm		R426	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LA03	2703-001572	INDUCTOR-SMD;22uH,10%,3.2x2.5x2.2mm		R427	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LA04	2703-001572	INDUCTOR-SMD;22uH,10%,3.2x2.5x2.2mm		R428	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LE01	2703-001572	INDUCTOR-SMD;22uH,10%,3.2x2.5x2.2mm		R429	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LP01	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R430	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
LP02	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R431	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LP03	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R432	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
LP05	2703-001572	INDUCTOR-SMD;22uH,10%,3.2x2.5x2.2mm		R433	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LP52	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R435	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LP53	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R436	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LP54	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R437	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
LP55	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R438	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
Q501	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-		R439	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
Q502	0501-002171	TR-SMALL SIGNAL;KTA2014,PNP,100mW,SOT-32		R440	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
Q601	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,500mW,PCP,TP		R441	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
Q602	0504-001038	TR-DIGITAL;KRC402,NPN,100MW,10K/10K,SOT-		R443	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
Q603	0504-001037	TR-DIGITAL;KRC401,NPN,100MW,4.7K/4.7K,SO		R447	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
QA01	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100mA,		R448	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
QA03	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-		R449	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
QA04	0504-001037	TR-DIGITAL;KRC401,NPN,100MW,4.7K/4.7K,SO		R450	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
QA05	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-		R451	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
QA06	0504-001037	TR-DIGITAL;KRC401,NPN,100MW,4.7K/4.7K,SO		R452	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
QE01	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-		R453	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
QP02	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-		R455	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R400	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R456	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R401	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R459	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R402	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R460	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R403	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R461	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R404	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R462	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R405	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R463	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R406	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R464	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R407	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R466	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R408	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		R467	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R409	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		R498	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R410	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		R501	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
R502	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R554	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R503	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R555	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
R504	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R556	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
R505	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		R557	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
R506	2007-000637	R-CHIP;270Kohm,5%,1/16W,DA,TP,1608		R558	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
R507	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R559	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R509	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R560	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
R510	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R562	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R511	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R563	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R512	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R564	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
R513	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R597	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R514	2007-000923	R-CHIP;470Kohm,1%,1/16W,DA,TP,1608		R598	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
R517	2007-001194	R-CHIP;820Kohm,1%,1/16W,DA,TP,1608		R599	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
R518	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R601	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
R519	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R602	2007-000130	R-CHIP;39Kohm,5%,1/16W,DA,TP,1608	
R520	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R603	2007-000098	R-CHIP;56Kohm,5%,1/16W,DA,TP,1608	
R521	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R604	2007-000096	R-CHIP;30Kohm,5%,1/16W,DA,TP,1608	
R522	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R605	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
R524	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608		R606	2007-000130	R-CHIP;39Kohm,5%,1/16W,DA,TP,1608	
R525	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		R607	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R526	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R608	2007-000101	R-CHIP;82Kohm,5%,1/16W,DA,TP,1608	
R528	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R609	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
R533	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R610	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
R534	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R611	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R535	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R612	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R536	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R613	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R537	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R614	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R538	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R615	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R539	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R616	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R540	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R617	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
R541	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R618	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R542	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R619	2007-000503	R-CHIP;2.2ohm,5%,1/16W,DA,TP,1608	
R543	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R620	2007-000503	R-CHIP;2.2ohm,5%,1/16W,DA,TP,1608	
R544	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R621	2007-000503	R-CHIP;2.2ohm,5%,1/16W,DA,TP,1608	
R547	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R622	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	
R548	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R627	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
R550	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R628	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
R551	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R629	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
R552	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R634	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R553	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R635	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	

Electrical Parts List

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
R636	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012		RA06	2007-000979	R-CHIP;5.6Kohm,1%,1/16W,DA,TP,1608	
R637	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012		RA07	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
R639	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		RA08	2007-000043	R-CHIP;1Kohm,1%,1/16W,DA,TP,1608	
R640	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA09	2007-000104	R-CHIP;150Kohm,5%,1/16W,DA,TP,1608	
R641	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608		RA10	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608	
R642	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA11	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R643	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608		RA12	2007-000106	R-CHIP;220Kohm,5%,1/16W,DA,TP,1608	
R644	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608		RA13	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
R645	2007-000125	R-CHIP;3.9Kohm,5%,1/16W,DA,TP,1608		RA14	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R648	2007-000458	R-CHIP;18Kohm,5%,1/16W,DA,TP,1608		RA15	2007-000106	R-CHIP;220Kohm,5%,1/16W,DA,TP,1608	
R649	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608		RA16	2007-000098	R-CHIP;56Kohm,5%,1/16W,DA,TP,1608	
R650	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608		RA17	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
R651	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608		RA18	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	
R652	2007-000458	R-CHIP;18Kohm,5%,1/16W,DA,TP,1608		RA19	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R653	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608		RA20	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
R654	2007-000115	R-CHIP;82ohm,5%,1/16W,DA,TP,1608		RA21	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R655	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608		RA22	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R656	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608		RA23	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R657	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RA24	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R658	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA25	2007-000250	R-CHIP;1.5Mohm,5%,1/16W,DA,TP,1608	
R665	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA26	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
R666	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA27	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R667	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA29	2007-000979	R-CHIP;5.6Kohm,1%,1/16W,DA,TP,1608	
R668	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA30	2007-000979	R-CHIP;5.6Kohm,1%,1/16W,DA,TP,1608	
R669	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RA31	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R670	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RA32	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
R671	2007-000103	R-CHIP;120Kohm,5%,1/16W,DA,TP,1608		RA33	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608	
R672	2007-000103	R-CHIP;120Kohm,5%,1/16W,DA,TP,1608		RA34	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
R673	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608		RA35	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
R677	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608		RA36	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608	
R678	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA37	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608	
R679	2007-000093	R-CHIP;20Kohm,5%,1/16W,DA,TP,1608		RA38	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R680	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RA39	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
R681	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		RA40	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
R682	2007-000121	R-CHIP;820ohm,5%,1/16W,DA,TP,1608		RA41	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608	
R683	2007-000123	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1608		RA42	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608	
RA02	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608		RA43	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
RA03	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RA44	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608	
RA04	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RA45	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	
RA05	2007-000683	R-CHIP;3.3Kohm,1%,1/16W,DA,TP,1608		RA46	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
RA47	2007-00097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608		RP55	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608	
RA48	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608		RP56	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
RA49	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608		RP60	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
RA50	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608		RP61	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
RA51	2007-000100	R-CHIP;68Kohm,5%,1/16W,DA,TP,1608		RP66	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RA52	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		RP67	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RA53	2007-000869	R-CHIP;4.7Kohm,1%,1/16W,DA,TP,1608		RP68	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RE01	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		RP69	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RE02	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		RP70	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RE03	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		RP71	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RE04	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RP72	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RE05	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012		RP73	2007-000071	R-CHIP;22ohm,5%,1/16W,DA,TP,1608	
RE06	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		RP74	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	
RE07	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		RP75	2007-000726	R-CHIP;300ohm,1%,1/16W,DA,TP,1608	
RE08	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		RP77	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608	
RE09	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RP79	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RE10	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608		RP80	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RE11	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608		RP82	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
RE12	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608		RP85	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RE13	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608		RP86	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
RE14	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608		RP91	2007-000071	R-CHIP;22ohm,5%,1/16W,DA,TP,1608	
RE15	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RP95	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RE16	2007-001026	R-CHIP;560Kohm,5%,1/16W,DA,TP,1608		RP97	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RE17	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608		RP99	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
RE18	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		SW506	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
RE19	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608		XT401	2801-003753	CRYSTAL-SMD;5MHZ,50PPM,28-ABN,16PF,150OH	
RE20	2007-001026	R-CHIP;560Kohm,5%,1/16W,DA,TP,1608		XT501	2801-003242	CRYSTAL-SMD;11.895104MHz,50ppm,28-ABL,13	
RE21	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608		XT502	2801-000258	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAW,12	
RE25	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608				ASSY-DC/DC BOARD	
RE26	2007-000265	R-CHIP;1.8Kohm,1%,1/16W,DA,TP,1608		B301	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RE27	2007-000869	R-CHIP;4.7Kohm,1%,1/16W,DA,TP,1608		B304	2901-001022	FILTER-EMI SMD;10V,200MA,-	
RE28	2007-000265	R-CHIP;1.8Kohm,1%,1/16W,DA,TP,1608		B305	2901-001022	FILTER-EMI SMD;10V,200MA,-	
RE29	2007-000869	R-CHIP;4.7Kohm,1%,1/16W,DA,TP,1608		B308	2901-001022	FILTER-EMI SMD;10V,200MA,-	
RP06	2007-000102	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		B309	2901-001022	FILTER-EMI SMD;10V,200MA,-	
RP07	2007-000098	R-CHIP;56Kohm,5%,1/16W,DA,TP,1608		B310	2901-001022	FILTER-EMI SMD;10V,200MA,-	
RP09	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		B311	3301-001268	CORE-FERRITE BEAD;-,1KOHM,1608X0.8,190MA	
RP50	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608		B313	3301-001268	CORE-FERRITE BEAD;-,1KOHM,1608X0.8,190MA	
RP51	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		B703	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
RP52	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		B705	3301-001268	CORE-FERRITE BEAD;-,1KOHM,1608X0.8,190MA	
RP53	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		B909	3301-001268	CORE-FERRITE BEAD;-,1KOHM,1608X0.8,190MA	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
B910	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C713	2203-000604	C-CERAMIC,CHIP;22nF,10%,25V,X7R,TP,1608	
B916	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C715	2203-000604	C-CERAMIC,CHIP;22nF,10%,25V,X7R,TP,1608	
B917	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C716	2203-001140	C-CERAMIC,CHIP;68nF,10%,16V,X7R,TP,1608,	
C301	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C717	2203-000062	C-CERAMIC,CHIP;47nF,+80-20%,50V,Y5V,TP,1	
C303	2203-000041	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP,		C718	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C304	2203-000041	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP,		C719	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP,	
C305	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C720	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,1608	
C307	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-		C721	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C308	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C722	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-	
C309	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-		C723	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-	
C310	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-		C724	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
C311	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C725	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C312	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528		C726	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C313	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C727	2404-000275	C-TA,CHIP;100UF,10%,10V,GP,TP,7343	
C314	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C728	2404-000226	C-TA,CHIP;33uF,20%,6.3V,WT,6032,-,TP	
C315	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C729	2404-000259	C-TA,CHIP;47uF,20%,6.3V,-,TP,6032,-	
C316	2404-000275	C-TA,CHIP;100UF,10%,10V,GP,TP,7343		C730	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,	
C317	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528		C735	2404-000259	C-TA,CHIP;47uF,20%,6.3V,-,TP,6032,-	
C318	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528		C736	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-	
C319	2404-000275	C-TA,CHIP;100UF,10%,10V,GP,TP,7343		C737	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C320	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C738	2404-000259	C-TA,CHIP;47uF,20%,6.3V,-,TP,6032,-	
C321	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP,		C739	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C322	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528		C740	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,1608	
C323	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C741	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C324	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C742	2203-000062	C-CERAMIC,CHIP;47nF,+80-20%,50V,Y5V,TP,1	
C325	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C743	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP,	
C326	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C750	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C327	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C751	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
C328	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C752	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C701	2203-000604	C-CERAMIC,CHIP;22nF,10%,25V,X7R,TP,1608		C753	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C702	2203-001140	C-CERAMIC,CHIP;68nF,10%,16V,X7R,TP,1608,		C754	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-	
C704	2203-000604	C-CERAMIC,CHIP;22nF,10%,25V,X7R,TP,1608		C755	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C705	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C756	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-	
C706	2404-000251	C-TA,CHIP;470nF,20%,35V,-,TP,3216,-		C757	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
C707	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C758	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C708	2404-000226	C-TA,CHIP;33uF,20%,6.3V,WT,6032,-,TP		C759	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
C709	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-		C760	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C710	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C761	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C711	2404-000251	C-TA,CHIP;470nF,20%,35V,-,TP,3216,-		C762	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C712	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C763	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	

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C764	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-		C910	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608	
C765	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C912	2203-001103	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1608	
C766	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C913	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C767	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C914	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C768	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		C915	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C769	2203-000888	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,1608		C918	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C770	2203-000888	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,1608		C919	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C771	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C920	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608	
C772	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C922	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608	
C773	2203-001554	C-CERAMIC,CHIP;1.8nF,10%,50V,X7R,TP,1608		C923	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C774	2203-001554	C-CERAMIC,CHIP;1.8nF,10%,50V,X7R,TP,1608		C924	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C780	2203-000888	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,1608		C929	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C781	2203-000888	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,1608		C930	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608	
C900	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-		C931	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9002	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-		C932	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9004	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-		C933	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9005	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-		C934	2203-000483	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C9006	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C935	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9009	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C936	2203-000483	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C901	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-		C937	2203-000483	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C9010	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		C938	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9011	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321		C939	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9013	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321		C940	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608	
C9014	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321		C941	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608	
C9015	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,		C943	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C9017	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		C944	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C9019	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608		C945	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
C9022	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608		C949	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9024	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608		C951	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
C9026	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		C952	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	
C9027	2203-000715	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1608		C953	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C9028	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C955	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C9029	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608		C959	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C9030	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608		C960	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP,160	
C9031	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608		C961	2203-000783	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,1608	
C904	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C962	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C905	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		C963	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
C906	2203-000062	C-CERAMIC,CHIP;47nF,+80-20%,50V,Y5V,TP,1		C969	2203-005619	C-CERAMIC,CHIP;4700NF,10%,16V,X5R,TP,321	
C907	2203-000560	C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,		C983	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608	
C908	2203-001408	C-CERAMIC,CHIP;0.27nF,5%,50V,NP0,TP,1608		C990	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	

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C991	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		L9009	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CN302	3708-001020	CONNECTOR-FPC/FC/PIC;12P,0.5mm,ANGLE,SN		L901	2703-001871	INDUCTOR-SMD;10UH,20%,6X6X2.8MM	
CN701	3711-000541	CONNECTOR-HEADER;BOX,2P;1R,1.25mm,SMD-A,		L9010	2703-001872	INDUCTOR-SMD;22UH,20%,6X6X2.8MM	
CN702	3708-001111	CONNECTOR-FPC/FC/PIC;14P,0.5mm,SMD-A,SN		L910	2703-001872	INDUCTOR-SMD;22UH,20%,6X6X2.8MM	
CN703	3708-001354	CONNECTOR-FPC/FC/PIC;50P,0.5MM,SMD-A,SN		L911	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CN901	3708-001068	CONNECTOR-FPC/FC/PIC;9P,0.5MM,SMD-A,SN		L912	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CN902	3708-001354	CONNECTOR-FPC/FC/PIC;50P,0.5MM,SMD-A,SN		L915	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CN903	3711-004153	CONNECTOR-HEADER;BOX,14P,1R,1mm,SMD-A,SN		L916	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CN904	3708-001077	CONNECTOR-FPC/FC/PIC;14P,0.5mm,SMD-A,SN		L917	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
D301	0401-001058	DIODE-SWITCHING;KDS121,85V,300mA,SOT-323		L920	2703-001872	INDUCTOR-SMD;22UH,20%,6X6X2.8MM	
D302	0401-001058	DIODE-SWITCHING;KDS121,85V,300mA,SOT-323		L921	2703-000408	INDUCTOR-SMD;3.3uH,20%,3.2x2.5x2.2mm	
D303	0401-001058	DIODE-SWITCHING;KDS121,85V,300mA,SOT-323		L930	2703-001800	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
D304	0401-001058	DIODE-SWITCHING;KDS121,85V,300mA,SOT-323		L931	2703-001800	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
D930	0404-000110	DIODE-SCHOTTKY;RB411D,20V,500mA,SOT-23,T		L932	2703-001800	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
D931	0407-000139	DIODE-ARRAY;JMN10,80V,100mA,CX3,IMD,TP		L933	2703-001800	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
F900	3601-001154	FUSE-SURFACE MOUNT;125V,2.5A,SLOW-BLOW,C		L940	2703-001872	INDUCTOR-SMD;22UH,20%,6X6X2.8MM	
IC301	1204-001146	IC-OSD PROCESSOR;BU6251FV,SOP,20P,240MIL		L941	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
IC302	1201-001322	IC-VIDEO AMP;NJM2538V,SOP,20P,175MIL,-,-		L942	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
IC303	AC14-12015G	IC-LINEAR;NJM2249V,SSOP,TAPE		L950	2703-001866	INDUCTOR-SMD;100UH,20%,6X6X2.8MM	
IC304	AC14-12007X	IC-LOGIC;TC4S66F(TE85R),SSOP-5,5P		L960	2703-001866	INDUCTOR-SMD;100UH,20%,6X6X2.8MM	
IC701	1205-001482	IC-INTERFACE;LA74200W,QFP,64P,400MIL,EPO		Q302	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200mW,UMT,TP	
IC751	1002-001140	IC-A/D&D/A CONVERTER;AK4518VF,16BIT,VSOP		Q303	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200mW,UMT,TP	
IC900	1203-001534	IC-PWM CONTROLLER;TL14661,QFP,64P,-,PLAS		Q701	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200mW,UMT,TP	
IC9001	1203-000445	IC-POS.FIXED REG.;14641,TO-220,3P,-,PLA		Q702	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200mW,UMT,TP	
IC902	1203-001025	IC-VOLTAGE REGULATOR;05TZ1,-,5P,-,PLASTI		Q703	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200mW,UMT,TP	
L301	2703-001799	INDUCTOR-SMD;33UH,10%,3.2X2.5X2.2MM		Q704	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200mW,UMT,TP	
L302	2703-000226	INDUCTOR-SMD;56uH,5%,2.5x3.2x2.2mm		Q705	0504-000107	TR-DIGITAL;DTA144EU,PNP,200mW,47K-47K,SC	
L303	2703-000398	INDUCTOR-SMD;10UH,10%,3.2x2.5x2.2mm		Q706	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
L304	2703-000398	INDUCTOR-SMD;10UH,10%,3.2x2.5x2.2mm		Q9001	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L701	2703-000407	INDUCTOR-SMD;330uH,10%,3.2x2.5x2.2mm		Q9003	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L704	2703-001800	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM		Q9004	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L705	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		Q910	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L706	2703-000406	INDUCTOR-SMD;33uH,10%,3.2x2.5x2.2mm		Q920	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L900	2703-001871	INDUCTOR-SMD;10UH,20%,6X6X2.8MM		Q930	0502-001076	TR-POWER;2SB1302(T),PNP;1.3W,SC-62,TP2	
L9001	2703-001871	INDUCTOR-SMD;10UH,20%,6X6X2.8MM		Q940	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L90011	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		Q950	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L9002	2703-001872	INDUCTOR-SMD;22UH,20%,6X6X2.8MM		Q960	0501-000682	TR-SMALL SIGNAL;FP102,PNP,600MW,PCP4,TP	
L9004	2703-001872	INDUCTOR-SMD;22UH,20%,6X6X2.8MM		Q970	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
L9005	2703-000408	INDUCTOR-SMD;3.3uH,20%,3.2x2.5x2.2mm		Q974	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
L9008	2703-000408	INDUCTOR-SMD;3.3uH,20%,3.2x2.5x2.2mm		Q983	0502-001076	TR-POWER;2SB1302(T),PNP;1.3W,SC-62,TP2	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
Q984	0502-001076	TR-POWER;2SB1302(T),PNP,1.3W,SC-62,TP,2		R702	2007-000127	R-CHIP;9.1Kohm,5%,1/16W,DA,TP,1608	
Q985	0502-001076	TR-POWER;2SB1302(T),PNP,1.3W,SC-62,TP,2		R704	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
Q986	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-		R705	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
Q989	0506-000135	TR-ARRAY;IMX1,NPN,2,50V,40V,100mA,300mW		R706	2007-000099	R-CHIP;62Kohm,5%,1/16W,DA,TP,1608	
R301	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R707	2007-000127	R-CHIP;9.1Kohm,5%,1/16W,DA,TP,1608	
R302	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R709	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R303	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R710	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R304	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R711	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
R309	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R712	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
R310	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R713	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R311	2007-001194	R-CHIP;820Kohm,1%,1/16W,DA,TP,1608		R715	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R312	2007-000116	R-CHIP;120ohm,5%,1/16W,DA,TP,1608		R716	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
R313	2007-000116	R-CHIP;120ohm,5%,1/16W,DA,TP,1608		R717	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
R314	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		R718	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R315	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		R719	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
R316	2007-000106	R-CHIP;220Kohm,5%,1/16W,DA,TP,1608		R720	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
R322	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R721	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R323	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R724	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R325	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608		R725	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R326	2007-000122	R-CHIP;1.2Kohm,5%,1/16W,DA,TP,1608		R727	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R327	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R728	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
R328	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R729	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
R330	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608		R730	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R331	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608		R731	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R332	2007-000616	R-CHIP;24Kohm,5%,1/16W,DA,TP,1608		R750	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
R333	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R751	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
R334	2007-000101	R-CHIP;82Kohm,5%,1/16W,DA,TP,1608		R752	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
R335	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		R753	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
R336	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		R756	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R337	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608		R757	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
R338	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608		R759	2007-000096	R-CHIP;30Kohm,5%,1/16W,DA,TP,1608	
R339	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608		R760	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
R340	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		R761	2007-000096	R-CHIP;30Kohm,5%,1/16W,DA,TP,1608	
R345	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608		R762	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
R346	2007-001134	R-CHIP;68ohm,5%,1/16W,DA,TP,1608		R763	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R348	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R764	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R349	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R765	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R350	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R766	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R351	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		R780	2007-000066	R-CHIP;20Kohm,1%,1/16W,DA,TP,1608	
R701	2007-000099	R-CHIP;62Kohm,5%,1/16W,DA,TP,1608		R781	2007-000458	R-CHIP;18Kohm,5%,1/16W,DA,TP,1608	

Electrical Parts List

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
R782	2007-000066	R-CHIP;20Kohm,1%,1/16W,DA,TP,1608		R932	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R783	2007-000458	R-CHIP;18Kohm,5%,1/16W,DA,TP,1608		R933	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608	
R784	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608		R934	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	
R785	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608		R935	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608	
R900	2007-000583	R-CHIP;22Kohm,1%,1/16W,DA,TP,1608		R936	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
R9001	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608		R937	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
R9002	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		R938	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
R9003	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608		R941	2007-000239	R-CHIP;1.5Kohm,1%,1/16W,DA,TP,1608	
R9004	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		R942	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608	
R9005	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608		R943	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
R9009	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608		R944	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608	
R901	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		R945	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
R9010	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		R952	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R9011	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608		R953	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
R9012	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608		R954	2007-000455	R-CHIP;18Kohm,1%,1/16W,DA,TP,1608	
R9014	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608		R955	2007-000067	R-CHIP;15Kohm,1%,1/16W,DA,TP,1608	
R9015	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R958	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R9017	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608		R960	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
R9018	2007-001650	R-CHIP;8.2Kohm,0.5%,1/16W,DA,TP,1608		R961	2007-000455	R-CHIP;18Kohm,1%,1/16W,DA,TP,1608	
R902	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R962	2007-000651	R-CHIP;27Kohm,1%,1/16W,DA,TP,1608	
R9023	2007-000239	R-CHIP;1.5Kohm,1%,1/16W,DA,TP,1608		R965	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R9024	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608		R970	2007-000772	R-CHIP;33Kohm,1%,1/16W,DA,TP,1608	
R9025	2007-001644	R-CHIP;10Kohm,0.5%,1/16W,DA,TP,1608		R971	2007-000772	R-CHIP;33Kohm,1%,1/16W,DA,TP,1608	
R9026	2007-001650	R-CHIP;8.2Kohm,0.5%,1/16W,DA,TP,1608		R972	2007-001206	R-CHIP;82Kohm,1%,1/16W,DA,TP,1608	
R9031	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R973	2007-000063	R-CHIP;150Kohm,1%,1/16W,DA,TP,1608	
R9032	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608		R974	2007-000133	R-CHIP;330Kohm,5%,1/16W,DA,TP,1608	
R9033	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608		R975	2007-001206	R-CHIP;82Kohm,1%,1/16W,DA,TP,1608	
R9051	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608		R976	2007-000063	R-CHIP;150Kohm,1%,1/16W,DA,TP,1608	
R9052	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608		R977	2007-000133	R-CHIP;330Kohm,5%,1/16W,DA,TP,1608	
R910	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608		R984	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R911	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608		R985	2007-000079	R-CHIP;1.8Kohm,5%,1/16W,DA,TP,1608	
R913	2007-001644	R-CHIP;10Kohm,0.5%,1/16W,DA,TP,1608		R986	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R914	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608		R987	2007-000079	R-CHIP;1.8Kohm,5%,1/16W,DA,TP,1608	
R915	2007-001694	R-CHIP;12Kohm,0.5%,1/16W,DA,TP,1608		R992	2007-000116	R-CHIP;120ohm,5%,1/16W,DA,TP,1608	
R920	2007-000239	R-CHIP;1.5Kohm,1%,1/16W,DA,TP,1608		R993	2007-000450	R-CHIP;180ohm,5%,1/16W,DA,TP,1608	
R922	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608		R994	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
R923	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608		R995	2007-000655	R-CHIP;27Kohm,5%,1/16W,DA,TP,1608	
R924	2007-001697	R-CHIP;18Kohm,0.5%,1/16W,DA,TP,1608		R996	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
R925	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608		R997	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
R931	2007-001650	R-CHIP;8.2Kohm,0.5%,1/16W,DA,TP,1608		R998	2007-000081	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1608	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
SW901	3404-000119	SWITCH-TACT;12V,50MA,-,-		BD19	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
T901	AD26-00007A	TRANS-CONVERTOR;REEL,-;CST063-VPD50		BD20	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
		<b>ASSY-PRE AMP BOARD</b>		BD21	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
B191	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		BD22	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
B192	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		BD23	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
B193	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		BD25	3301-000325	CORE-FERRITE BEAD;AB,3.2x2.5x1.3mm,-,-	
C191	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2		BI01	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
C192	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		BS01	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
CN191	3708-001012	CONNECTOR-FPC/FC/PIC;8P,0.5mm,ANGLE,SN		BS02	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
CN192	3708-001077	CONNECTOR-FPC/FC/PIC;14P,0.5mm,SMD-A,SN		BS04	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA	
IC191	1201-001511	IC-PREAMP;370250,VSOP,14P,-;DUAL,500V/V,		C103	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
L191	2703-000363	INDUCTOR-SMD;10uH,5%,2.5x2x1.8mm		C104	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608	
R191	2007-000123	R-CHIP;1.5Kohm,5%,1/16W,DA,TP;1608		C105	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608	
R192	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP;1608		C106	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608	
R193	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP;1608		C107	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608	
		<b>ASSY-MAIN BOARD</b>		C108	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
B101	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C109	2203-000315	C-CERAMIC,CHIP;0.12nF,5%,50V,NP0,TP;1608	
B102	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C110	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP;1608	
B103	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C111	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP;160	
B106	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C112	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP;160	
B108	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C113	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP;160	
B109	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C114	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
B110	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C115	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
B111	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C116	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
B112	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C117	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
B113	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C118	2203-000888	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP;1608	
BD03	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C119	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
BD04	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C120	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
BD05	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C124	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
BD06	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C125	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP;1608	
BD07	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		C126	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP;1608	
BD08	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC01	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP;160	
BD09	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC02	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP;160	
BD10	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC03	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP;160	
BD12	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC04	2203-000815	C-CERAMIC,CHIP;0.033nF,5%,50V,NP0,TP;160	
BD13	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC05	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-;TP;3216,-	
BD14	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC06	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
BD16	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC07	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-;TP;3216,-	
BD17	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC08	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
BD18	3301-001268	CORE-FERRITE BEAD;-;1KOHM,1608X0.8,190MA		CC09	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP;1608,-	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
CC10	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		CI03	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CC11	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CI04	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216,-	
CC12	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CI05	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
CC13	2203-000041	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP,		CI07	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
CC14	2203-001103	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1608		CI08	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CC15	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		CI09	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
CC16	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CI10	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
CC17	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CI11	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
CC18	2203-000041	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP,		CI12	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
CC19	2203-001103	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1608		CI13	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
CC20	2203-000041	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP,		CI14	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
CC21	2203-001103	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1608		CI15	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CC22	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		CI16	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
CC23	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CI51	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP,1608	
CC24	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CN101	3708-001111	CONNECTOR-FPC/FC/PIC;14P,0.5mm,SMD-A,SN	
CC25	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CND01	3711-004229	CONNECTOR-HEADER;BOX,60P,2R,0.5MM,SMD-S,	
CC26	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		CNI01	3708-001022	CONNECTOR-FPC/FC/PIC;18P,0.5mm,ANGLE,SN	
CC27	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CNI02	3710-001456	CONNECTOR-SOCKET;70P,2R,0.5MM,SMD-S,AUF	
CC28	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CNI03	3708-001354	CONNECTOR-FPC/FC/PIC;50P,0.5MM,SMD-A,SN	
CC29	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CNS01	3710-001456	CONNECTOR-SOCKET;70P,2R,0.5MM,SMD-S,AUF	
CC30	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CNS02	3708-001354	CONNECTOR-FPC/FC/PIC;50P,0.5MM,SMD-A,SN	
CC31	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		CNS03	3711-004230	CONNECTOR-HEADER;BOX,12P,2R,0.5MM,SMD-S,	
CC32	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CS01	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
CD01	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		CS02	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD02	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CS03	2203-000681	C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,160	
CD03	2203-000041	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP,		CS04	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD04	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-		CS05	2203-000998	C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,160	
CD05	2203-000041	C-CERAMIC,CHIP;0.01nF,0.25pF,50V,NP0,TP,		CS06	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD06	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2		CS07	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD07	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CS08	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
CD08	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CS09	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD09	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CS10	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	
CD10	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CS11	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD11	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608		CS12	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD12	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CS22	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD98	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CS23	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CD99	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CS24	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CHANNEAD69-00063A	PAD,VP-D50(CHANNEL),FCU7500,1.5L2			CS25	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CI01	2203-000332	C-CERAMIC,CHIP;0.012nF,5%,50V,NP0,TP,160		CS30	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CI02	2203-000332	C-CERAMIC,CHIP;0.012nF,5%,50V,NP0,TP,160		CS31	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3,2	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
CS32	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		LS03	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CS33	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2		LS06	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
CS34	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		LS07	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
FC01	AC29-92001R	FILTER-LC CHIP,BP;8.192M,NLT3225-S8R2,C4		MVAUDI	AD69-00067A	PAD;VP-D50(MVAUDIO),FCU7500,1t,20,	
FC02	AC29-92001S	FILTER-LC CHIP,BP;11.290M,NLT3225-S11R3,		PRML	AD69-00062A	PAD;VP-D50,FCU7500,0.7t,13,-,BLACK	
FC03	AC29-92001Q	FILTER-LC CHIP,BP;12.288M,NLT3225-S12R3A		Q101	0501-002128	TR-SMALL SIGNAL;KTC4075,NPN,100mW,USM,TP	
FI01	AD27-00003A	COIL-CHOKE;-;200OHM MIN,-,-,-,REEL,NOISE		QI01	0504-001036	TR-DIGITAL;KRA304,PNP,100mW,47K/47Kohm,S	
FI02	AD27-00003A	COIL-CHOKE;-;200OHM MIN,-,-,-,REEL,NOISE		QI02	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
IC102	1201-001356	IC-RW AMP;65011,QFP;64P;677MIL,QUAD,-,P		QI03	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
ICC01	AD13-10030L	IC-ASIC;-;L8A0395,TQFP,144P,COMPRESSIO		QI04	0502-001076	TR-POWER;2SB1302(T),PNP,1.3W,SC-62,TP,2	
ICC02	AC14-12008U	IC-LOGIC;M52660FP,QFP,BULK 48P		R102	2007-000655	R-CHIP;27Kohm,5%,1/16W,DA,TP,1608	
ICC03	0801-000301	IC-CMOS LOGIC;TC7W04FU(TE12L),8P,150MI		R103	2007-000098	R-CHIP;56Kohm,5%,1/16W,DA,TP,1608	
ICC04	1002-001167	IC-D/A CONVERTER;M62368GP,8BIT,SSOP,16P,		R104	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
ICC05	1103-001133	IC-EEPROM;24C020,256x8BIT,SOP,8P,150MIL,		R107	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
ICD01	AD13-00001A	IC-ASIC;-;L8A0396,TQFP,144,ERROR CORRE		R111	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ICD02	AD11-00002A	IC-MEMORY;GLT440L16-40TC,40,TSOP,DRAM ,		R112	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ICI01	AD14-10002B	IC;TSB12LV42,QFP,LINK LAYER CONTR		R113	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
ICI02	AD14-10002C	IC;TSB11LV01,QFP,PHY CONTROLLER		R116	2007-000043	R-CHIP;1Kohm,1%,1/16W,DA,TP,1608	
ICS01	AD13-10030M	IC-ASIC;-;L8A0372,TQFP,176P,SHUFFLE		R121	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
ICS02	1105-001035	IC-DRAM;416S1120,1Mx16Bit,TSOP,50P,400		R127	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
ICS03	0801-002393	IC-CMOS LOGIC;74VHC244,BUS BUFFER,TSSOP,		R132	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
L102	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R135	2007-000239	R-CHIP;1.5Kohm,1%,1/16W,DA,TP,1608	
L103	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		R136	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	
L104	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC01	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
L105	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC02	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
L106	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC03	2007-000857	R-CHIP;4.3Kohm,1%,1/16W,DA,TP,1608	
L107	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC04	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
L109	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC05	2007-000965	R-CHIP;5.1Kohm,5%,1/16W,DA,TP,1608	
L110	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC06	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
LC01	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC07	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
LC02	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC08	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
LC03	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC09	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	
LC04	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC10	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
LD01	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC11	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
LD02	2703-001128	INDUCTOR-SMD;1.5uH,5%,2.5x2x1.8mm		RC12	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	
LD03	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC13	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
LI01	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC14	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
LI02	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC15	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	
LS01	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC16	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
LS02	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RC20	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
RC21	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	[	RI33	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RC22	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	[	RI34	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RC23	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	[	RI35	2007-000122	R-CHIP;1.2Kohm,5%,1/16W,DA,TP,1608	
RC91	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	[	RI36	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RD01	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	[	RI51	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RD97	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	[	RI52	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
RD98	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	[	RS01	2007-000729	R-CHIP;300ohm,5%,1/16W,DA,TP,1608	
RD99	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	[	RS02	2007-000071	R-CHIP;22ohm,5%,1/16W,DA,TP,1608	
RI01	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS03	2007-001131	R-CHIP;68ohm,1%,1/16W,DA,TP,1608	
RI02	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS04	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
RI03	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS05	2007-001167	R-CHIP;75ohm,5%,1/16W,DA,TP,1608	
RI04	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS06	2007-000118	R-CHIP;390ohm,5%,1/16W,DA,TP,1608	
RI05	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS07	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RI06	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS08	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RI07	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS16	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RI08	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS18	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RI09	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS20	2007-000127	R-CHIP;9.1Kohm,5%,1/16W,DA,TP,1608	
RI10	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS51	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RI11	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	[	RS52	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RI12	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS92	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RI13	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	RS94	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RI14	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	[	RS95	2007-000071	R-CHIP;22ohm,5%,1/16W,DA,TP,1608	
RI15	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	[	RS96	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RI16	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	[	SHUFFL	AD69-00066A	PAD;VP-D50(SHUFFLE),FCU7500,1t,24,	
RI17	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	[	XC01	2801-003652	CRYSTAL-SMD;8.192MHz,50ppm,28-ACI,12pF,5	
RI18	2007-001044	R-CHIP;56ohm,5%,1/16W,DA,TP,1608	[	XC02	2801-003770	CRYSTAL-SMD;12.288MHZ,50PPM,28-ACI,12PF,	
RI19	2007-000965	R-CHIP;5.1Kohm,5%,1/16W,DA,TP,1608	[	XD01	2801-003424	CRYSTAL-SMD;41.85MHZ,50ppm,28-ACC,12pF,-	
RI20	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	XI01	2801-003768	CRYSTAL-SMD;24.576MHZ,40PPM,28-ACO,7.5PF	
RI21	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	XS01	2804-001309	OSCILLATOR-CLOCK;54MHZ,20PPM,10TTL & CMO	
RI22	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[			<b>ASSY-CCD BOARD</b>	
RI23	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	[	CC01	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
RI24	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	[	CC02	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
RI25	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	[	CC03	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
RI26	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	[	CC04	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
RI27	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	[	CC05	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
RI28	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	[	CC06	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
RI29	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	[	CC09	2203-001660	C-CERAMIC,CHIP;0.004nF,0.25pF,16V,Y5V,TP	
RI30	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	[	CNC01	3711-004222	CONNECTOR-HEADER;BOX,20P,2R,0.5mm,SMD-S,	
RI31	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	[	DC01	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	
RI32	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	[	ICC01	0605-001028	CCD;B/W,DIP,14P,400MIL,810K,3.85x3	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
QC01	0505-000180	FET-SILICON;2SK1070PIETR,-,150MW,SOT		CL227	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
RC01	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP;1608		CL228	2203-005105	C-CERAMIC,CHIP;0.68nF,5%,50V,NP0,TP;1608	
RC02	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP;1608		CL229	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
RC03	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP;1608		CL230	2203-000257	C-CERAMIC,CHIP;10nF;10%,50V,X7R,TP;1608	
<b>ASSY-LCD BOARD</b>							
CL101	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL232	2203-000257	C-CERAMIC,CHIP;10nF;10%,50V,X7R,TP;1608	
CL102	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL233	2203-000062	C-CERAMIC,CHIP;47nF,+80-20%,50V,Y5V,TP,1	
CL104	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL234	2203-000257	C-CERAMIC,CHIP;10nF;10%,50V,X7R,TP;1608	
CL107	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP;3528,-		CL235	2203-000257	C-CERAMIC,CHIP;10nF;10%,50V,X7R,TP;1608	
CL110	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP;3528,-		CL236	2203-001697	C-CERAMIC,CHIP;0.082nF,5%,50V,NP0,TP;160	
CL111	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL237	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL137	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP;3528,-		CL239	2203-000257	C-CERAMIC,CHIP;10nF;10%,50V,X7R,TP;1608	
CL138	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL240	2404-000251	C-TA,CHIP;470nF,20%,35V,-,TP;3216,-	
CL148	2301-001108	C-FILM,CHIP;22nF,5%,50V,TP;3.2x2.5x1.4,3		CL301	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL150	2203-005040	C-CERAMIC,CHIP;0.012nF,5%,3kV,NP0,TP;452		CL302	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
CL157	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2		CL303	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
CL158	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL304	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP;3528	
CL160	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP;3528		CL309	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL161	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL310	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP;1608,-	
CL201	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL311	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL202	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2		CL312	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP;1608	
CL203	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP;3528		CL313	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
CL204	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL314	2203-000236	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP;1608	
CL207	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP;3216,-		CL316	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
CL208	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL317	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL209	2203-001103	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP;1608		CL318	2404-000128	C-TA,CHIP;10uF,20%,16V,-,TP;6032,-	
CL210	2404-000335	C-TA,CHIP;3.3uF,20%,16V,GP,TP;3216		CL319	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL211	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL326	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL212	2203-001222	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP;1608		CL329	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP;1608	
CL213	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL331	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP;3528,-	
CL214	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL331	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
CL215	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL342	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL216	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL343	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
CL217	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL344	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL218	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL401	2404-000286	C-TA,CHIP;10uF,20%,25V,-,TP;7343,4.4mm	
CL219	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP;1608		CL402	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL221	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		CL403	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP;3216,3.2	
CL224	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL405	2203-001656	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP;1608	
CL225	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL406	2203-001607	C-CERAMIC,CHIP;0.22nF,5%,50V,NP0,TP;1608	
CL226	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		CL407	2203-001598	C-CERAMIC,CHIP;2200nF,+80-20%,16V,Y5V,TP	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
CL408	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2		QL113	0501-002128	TR-SMALL SIGNAL;KTC4075,NPN,100mW,USM,TP	
CL409	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		QL114	0501-002128	TR-SMALL SIGNAL;KTC4075,NPN,100mW,USM,TP	
CL410	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		RL136	2007-000516	R-CHIP;2.7Kohm,1%,1/16W,DA,TP,1608	
CL412	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		RL137	2007-000516	R-CHIP;2.7Kohm,1%,1/16W,DA,TP,1608	
CL413	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,		RL140	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
CNL101	3711-004153	CONNECTOR-HEADER;BOX,14P,1R,1mm,SMD-A,SN		RL141	2007-000116	R-CHIP;120ohm,5%,1/16W,DA,TP,1608	
CNL102	3708-001334	CONNECTOR-FPC/FC/PIC;10P,0.8mm,SMD-A,SN		RL142	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
CNL301	3708-001340	CONNECTOR-FPC/FC/PIC;24P,0.5mm,SMD-A,SN		RL202	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
DL302	0405-000123	DIODE-VARACTOR;1T369,34V,10nA,DSM,TP		RL203	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
DL303	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323		RL207	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
DL304	0403-000649	DIODE-ZENER;RD5.1S,5.1V,4.96-5.22V,200mW		RL208	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
ICL201	1002-001034	IC-D/A CONVERTER;M62352P,8BIT,SOP,20P,-,		RL209	2007-001114	R-CHIP;680Kohm,5%,1/16W,DA,TP,1608	
ICL202	1103-001010	IC-EEPROM;24C02,256x8BIT,SOP,8P,150MIL,1		RL210	2007-000133	R-CHIP;330Kohm,5%,1/16W,DA,TP,1608	
ICL203	1204-001321	IC-VIDEO PROCESS;IR3Y29BM,QFP,48P,286MIL		RL212	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
ICL301	1201-000200	IC-OP AMP;3414,SOP,8P,173MIL,DUAL,-,PLAS		RL215	2007-000455	R-CHIP;18Kohm,1%,1/16W,DA,TP,1608	
ICL303	AD13-00002A	IC-DRIVE,-;UPS015,TQFP,48P,-		RL216	2007-000133	R-CHIP;330Kohm,5%,1/16W,DA,TP,1608	
ICL401	0801-002272	IC-CMOS LOGIC;TC7SET08FU(TE85L)AND GATE,		RL218	2007-000130	R-CHIP;39Kohm,5%,1/16W,DA,TP,1608	
ICL402	0801-002272	IC-CMOS LOGIC;TC7SET08FU(TE85L)AND GATE,		RL221	2007-000107	R-CHIP;470Kohm,5%,1/16W,DA,TP,1608	
ICL403	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-		RL222	2007-000772	R-CHIP;33Kohm,1%,1/16W,DA,TP,1608	
LL102	2703-000407	INDUCTOR-SMD;330uH,10%,3.2x2.5x2.2mm		RL223	2007-000939	R-CHIP;47Kohm,1%,1/16W,DA,TP,1608	
LL104	2703-000411	INDUCTOR-SMD;4.7uH,20%,3.2x2.5x2.2mm		RL224	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
LL105	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL225	2007-000939	R-CHIP;47Kohm,1%,1/16W,DA,TP,1608	
LL109	2703-001196	INDUCTOR-SMD;150uH,20%,7x7x3.2mm		RL226	2007-001038	R-CHIP;56Kohm,1%,1/16W,DA,TP,1608	
LL115	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL233	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
LL201	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL234	2007-000130	R-CHIP;39Kohm,5%,1/16W,DA,TP,1608	
LL202	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL235	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
LL205	AD27-00002A	COIL-TRAP;5CDM,-,Q1C,M7N,-,SUMIKASUPER-E		RL236	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
LL301	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL237	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
LL302	2703-000365	INDUCTOR-SMD;15uH,5%,2.5x2x1.8mm		RL238	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
LL304	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL239	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
LL306	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL240	2007-000305	R-CHIP;10Mohm,5%,1/16W,DA,TP,1608	
LL307	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL241	2007-000087	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	
LL401	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL242	2007-000087	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	
LL402	2703-001571	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm		RL243	2007-007703	R-CHIP;5.6MOHM,5%,1/16W,DA,TP,1608	
QL103	0504-001037	TR-DIGITAL;KRC401,NPN,100MW,4.7K/4.7K,SO		RL244	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
QL108	0502-000435	TR-POWER;2SD1898Q,NPN,500MW,SOT-89,TP,1		RL245	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	
QL109	0502-000435	TR-POWER;2SD1898Q,NPN,500MW,SOT-89,TP,1		RL246	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
QL110	0506-000148	TR-ARRAY;UMT2N,PNP,2,-50V,-40V,-100MA,3		RL247	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
QL111	0506-000149	TR-ARRAY;UMX1N,NPN/PNP,1,50V,40V,100MA,		RL248	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
QL112	0501-002171	TR-SMALL SIGNAL;KTA2014,PNP,100mW,SOT-32		RL250	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	

Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
RL251	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RL415	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL261	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RL416	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RL262	2007-001007	R-CHIP;51Kohm,1%,1/16W,DA,TP,1608		RL417	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL263	2007-000651	R-CHIP;27Kohm,1%,1/16W,DA,TP,1608		RL418	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
RL271	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608		RL419	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL276	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RL420	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
RL301	2007-000637	R-CHIP;270Kohm,5%,1/16W,DA,TP,1608		RL421	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
RL302	2007-000828	R-CHIP;39Kohm,1%,1/16W,DA,TP,1608		RL422	2007-000106	R-CHIP;220Kohm,5%,1/16W,DA,TP,1608	
RL303	2007-000736	R-CHIP;30Kohm,1%,1/16W,DA,TP,1608		RL423	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RL304	2007-000060	R-CHIP;100Kohm,1%,1/16W,DA,TP,1608		RL424	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
RL305	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RL425	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
RL307	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608		RL426	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RL308	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608		RL427	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608	
RL309	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608		RL428	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL310	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		RL429	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RL311	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608		RL430	2007-000651	R-CHIP;27Kohm,1%,1/16W,DA,TP,1608	
RL312	2007-000101	R-CHIP;82Kohm,5%,1/16W,DA,TP,1608		RL431	2007-000736	R-CHIP;30Kohm,1%,1/16W,DA,TP,1608	
RL313	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608		RL432	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
RL314	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RL433	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL315	2007-000063	R-CHIP;150Kohm,1%,1/16W,DA,TP,1608		RL434	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RL316	2007-001206	R-CHIP;82Kohm,1%,1/16W,DA,TP,1608		RL435	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL317	2007-000130	R-CHIP;39Kohm,5%,1/16W,DA,TP,1608		RL436	2007-000123	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1608	
RL318	2007-000772	R-CHIP;33Kohm,1%,1/16W,DA,TP,1608		SW101	3403-000126	SWITCH-PUSH;12V,100MA,-,-	
RL322	2007-000999	R-CHIP;510ohm,1%,1/16W,DA,TP,1608		TL103	AD26-82001C	TRANS-INVERTER;12.4X11X3.4,6V,101KHZ,843	
RL332	2007-000066	R-CHIP;20Kohm,1%,1/16W,DA,TP,1608		XL201	2801-003126	CRYSTAL-SMD;4.433619MHz,30ppm,28-ABN,16p	
RL333	2007-000052	R-CHIP;10Kohm,1%,1/16W,DA,TP,1608		<b>ASSY-CONNECTION BOARD</b>			
RL334	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608		CNN01	3710-001466	CONNECTOR-SOCKET;20P,2R,0.5mm,SMD-S,AUF	
RL401	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608		CNN02	3708-001397	CONNECTOR-FPC/FC/PIC;27P,0.3MM,SMD-A,SN	
RL403	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		CNN03	3711-004283	CONNECTOR-HEADER;BOX,50P,2R,0.5MM,SMD-A,	
RL404	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608		RN01	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RL405	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608		<b>ASSY-CVF BOARD</b>			
RL406	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608		CNV01	3708-001130	CONNECTOR-FPC/FC/PIC;12P,0.5mm,SMD-S,SN	
RL407	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608		CNV02	3708-000514	CONNECTOR-FPC/FC/PIC;16P,0.5mm,SMD-S,SN	
RL408	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		CNV03	3711-000862	CONNECTOR-HEADER;BOX,3P,1R,1.25mm,SMD-A,	
RL409	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		CV03	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
RL410	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608		CV05	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
RL411	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608		CV09	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP,	
RL412	2007-000119	R-CHIP;560ohm,5%,1/16W,DA,TP,1608		CV10	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP,	
RL413	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		CV11	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5V,TP,	
RL414	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608		CV13	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	

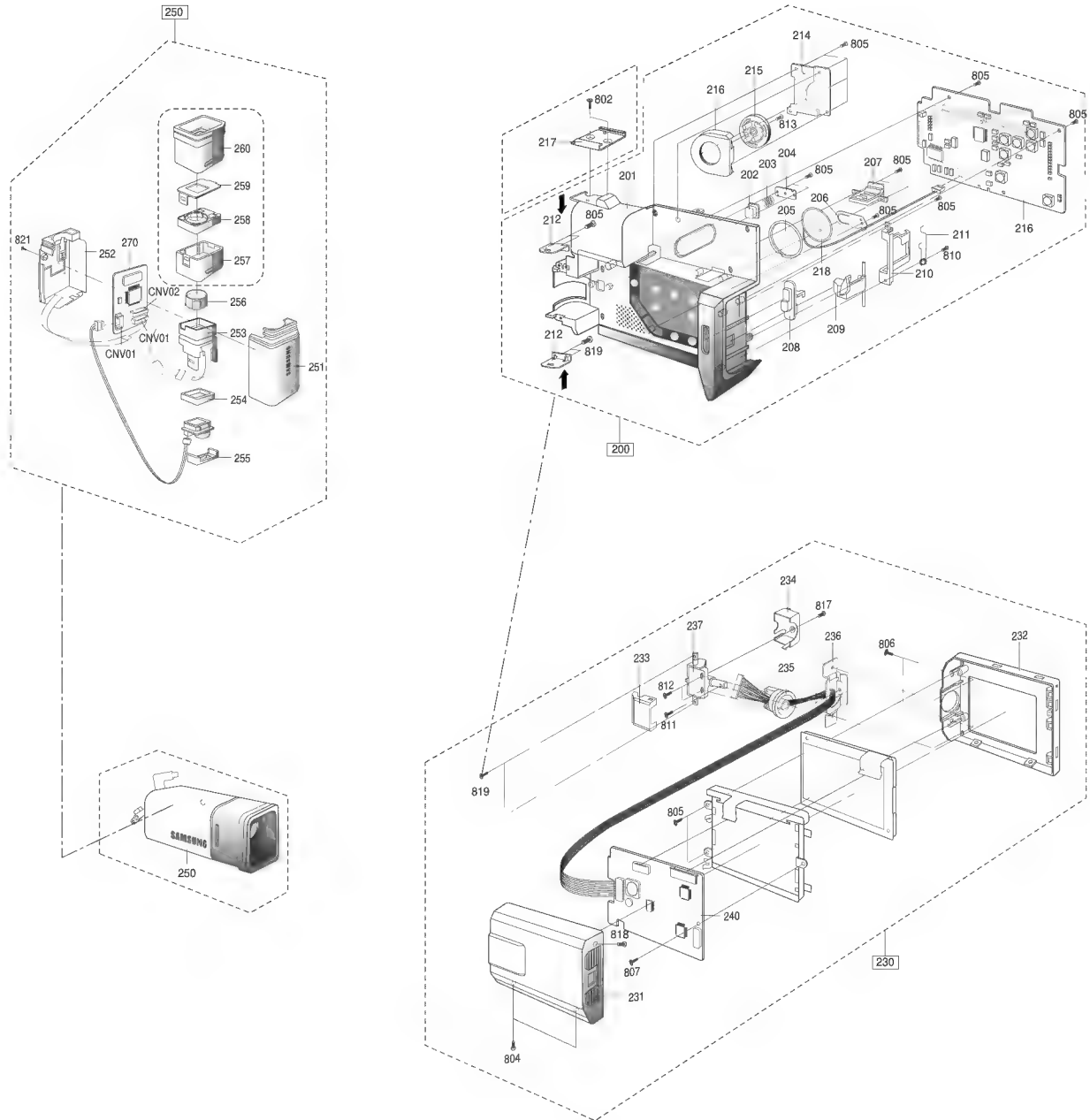


Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
PC10	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.		PJ03	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4mm,1/0.5	
PC11	2401-001567	C-AL;47uF,20%,400V,WT,-,18x20,10mm		PJA50	3722-000465	JACK-DC POWER;1P/1C,PI4.4,AG,BLK,-	
PC12	2301-000140	C-FILM,PEF;10nF,10%,630V,BK,16.5X9.5X5.7		PL10	AC29-30050A	FILTER-LINE NOISE;-;400UH,-;250V,-	
PC13	2401-000970	C-AL;22uF,20%,50V,WT,TP,5x11,5		PL50	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
PC14	2203-000222	C-CERAMIC,CHIP;100nF,20%,50V,Z5U,TP,2012		PL51	AC27-12001F	COIL-CHOKE;100UH,J,-,-,100UH-J RA 1KHZ	
PC15	2203-000222	C-CERAMIC,CHIP;100nF,20%,50V,Z5U,TP,2012		PLED50	0601-000208	LED;CHIP,RED,1.5X2mm,660nm	
PC16	2401-000360	C-AL;100uF,20%,50V,GP,TP,8x11.5,5		PLED51	0601-000208	LED;CHIP,RED,1.5X2mm,660nm	
PC50	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-		PQ50	0502-000399	TR-POWER;2SB1127S,PNP,-25V,-20V,-5A,1W,	
PC51	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-		PQ52	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K/47K,SOT	
PC52	2401-000131	C-AL;1000uF,20%,16V,GP,TP;10x20,5		PQ53	0504-000158	TR-DIGITAL;KSR2104,PNP,200MW,47K/47K,SOT	
PC53	2401-001374	C-AL;470uF,20%,16V,WT,TP;10x12.5,2.		PQ54	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K/47K,SOT	
PC54	2203-000481	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		PQ55	0504-000158	TR-DIGITAL;KSR2104,PNP,200MW,47K/47K,SOT	
PC55	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-		PQ56	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K/47K,SOT	
PC56	2203-000222	C-CERAMIC,CHIP;100nF,20%,50V,Z5U,TP,2012		PQ57	0504-000158	TR-DIGITAL;KSR2104,PNP,200MW,47K/47K,SOT	
PC57	2203-000481	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		PQ58	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K/47K,SOT	
PC60	2404-000198	C-TA,CHIP;22uF,20%,6.3V,-,TP,3528,-		PQ59	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K/47K,SOT	
PC61	2203-000222	C-CERAMIC,CHIP;100nF,20%,50V,Z5U,TP,2012		PQ60	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K/47K,SOT	
PC62	2203-000222	C-CERAMIC,CHIP;100nF,20%,50V,Z5U,TP,2012		PQ61	0504-000129	TR-DIGITAL;KSR1104,NPN,200MW,47K/47K,SOT	
PC63	2404-000238	C-TA,CHIP;4.7uF,20%,20V,-,TP,3528,-		PR10	2001-000474	R-CARBON;2.7MOHM,5%,1/4W,AA,TP,2.4X6.4M	
PC64	2203-000222	C-CERAMIC,CHIP;100nF,20%,50V,Z5U,TP,2012		PR11	2006-000262	R-CEMENT;2.7ohm,10%,2W,CB,TP;7.5x11x20.	
PC65	2203-000481	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP		PR12	2007-001212	R-CHIP;82Kohm,5%,1/8W,DA,TP,3216	
PCN10	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA		PR13	2007-001212	R-CHIP;82Kohm,5%,1/8W,DA,TP,3216	
PCN51	3711-002127	CONNECTOR-HEADER;BOX,8P,1R,1.25mm,SMD-A,		PR14	2007-001212	R-CHIP;82Kohm,5%,1/8W,DA,TP,3216	
PCN52	3711-002127	CONNECTOR-HEADER;BOX,8P,1R,1.25mm,SMD-A,		PR15	2007-001212	R-CHIP;82Kohm,5%,1/8W,DA,TP,3216	
PD10	0402-000386	DIODE-BRIDGE;S1WB60,600V,1A,DIP-4		PR16	2003-000307	R-METAL OXIDE;47Kohm,5%,2W,AD,TP;6x16mm	
PD11	0402-000391	DIODE-RECTIFIER;ERA22-10,1000V,500MA,MSR		PR17	2003-000111	R-METAL OXIDE;0.47ohm,5%,1W,AD,TP,4.3x12	
PD12	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800mA,DO		PR18	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
PD13	0402-001013	DIODE-RECTIFIER;1SR153-400,400V,800mA,DO		PR50	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
PD50	0404-000135	DIODE-SCHOTTKY;ESAC85M-009,90V,10A,TO-22		PR51	2007-000515	R-CHIP;2.7KOHM,1%,1/10W,DA,TP,2012	
PD51	0402-000165	DIODE-RECTIFIER;1N5819,40V,1A,DO-41,TP		PR52	2003-000102	R-METAL OXIDE;0.1ohm,5%,1W,AD,TP,4.3x12m	
PD52	0407-000116	DIODE-ARRAY;DAP202K,80V,100mA,CK2-3,SOT-		PR53	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
PD53	0401-000170	DIODE-SWITCHING;MA110,40V,100mA,-,3nS,SM		PR54	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
PF10	3601-000402	FUSE-CARTRIDGE;250V,1.25A,SLOW-BLOW,GLAS		PR55	2007-000515	R-CHIP;2.7KOHM,1%,1/10W,DA,TP,2012	
PIC1	1203-001730	IC-PWM CONTROLLER;STR-G6153,TO-220,5P,22		PR56	2007-000218	R-CHIP;1.2KOHM,1%,1/10W,DA,TP,2012	
PIC2	0604-000186	PHOTO-COUPLER;TR,-,200mW,DIP-4,ST		PR57	2007-001133	R-CHIP;680OHM,5%,1/10W,DA,TP,2012	
PIC3	AC14-12003Z	IC-FP;NJM2902M,TE2,-		PR58	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
PIC4	AC14-12012F	IC;S-8420BF-T1,SOP,-		PR59	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
PIC5	AD09-00006A	IC-MICOM;PIC16C72-04/SO,28PIN,STICK,CHAR		PR60	2007-000868	R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	
PJ01	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4mm,1/0.5		PR61	2007-000856	R-CHIP;4.3KOHM,1%,1/10W,DA,TP,2012	
PJ02	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4mm,1/0.5		PR62	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	

## Electrical Parts List

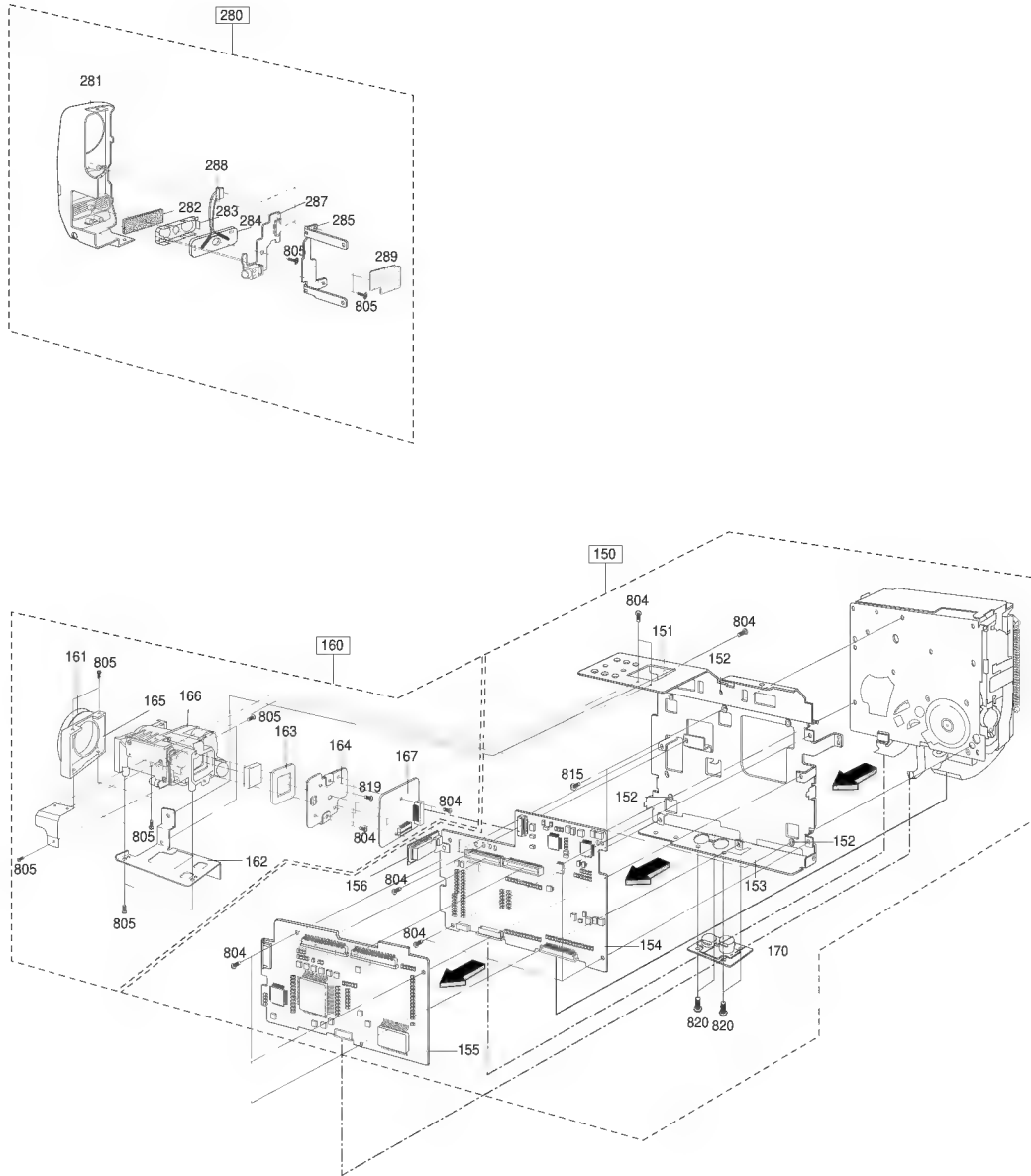
Loc. No	Part No	Desc & Spec	Remark	Loc. No	Part No	Desc & Spec	Remark
PR63	2007-000352	R-CHIP;12KOHM,1%,1/10W,DA,TP,2012					
PR64	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012					
PR65	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012					
PR66	2007-000342	R-CHIP;120OHM,1%,1/10W,DA,TP,2012					
PR67	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012					
PR68	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012					
PR69	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012					
PR70	2007-000218	R-CHIP;1.2KOHM,1%,1/10W,DA,TP,2012					
PR71	2007-000639	R-CHIP;270OHM,1%,1/10W,DA,TP,2012					
PR72	2007-000218	R-CHIP;1.2KOHM,1%,1/10W,DA,TP,2012					
PR73	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012					
PR74	2007-000454	R-CHIP;18KOHM,1%,1/10W,DA,TP,2012					
PR75	2007-000465	R-CHIP;1KOHM,1%,1/10W,DA,TP,2012					
PR76	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216					
PR77	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216					
PR78	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216					
PR79	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216					
PR80	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012					
PR81	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012					
PR82	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012					
PR83	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012					
PR84	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012					
PR85	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012					
PR86	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012					
PR87	2007-000582	R-CHIP;22KOHM,1%,1/10W,DA,TP,2012					
PR88	2007-000406	R-CHIP;15KOHM,1%,1/10W,DA,TP,2012					
PR89	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012					
PR90	2007-000978	R-CHIP;5.6KOHM,1%,1/10W,DA,TP,2012					
PR92	2007-000650	R-CHIP;27KOHM,1%,1/10W,DA,TP,2012					
PR93	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012					
PT10	AD26-80100A	TRANS-POWER;20x15,90/240V,50-60Hz,AA-E5					
PVA10	1405-000186	VARISTOR;470V,4500A,17x12mm,TP					
PVR50	2104-000115	VR-SMD;1Kohm,25%,0.15W,TP					
PWR1	AC39-12022M	POWER-CORD;CP2,KJ-0201,BLK,YH396-32V,1.8					
PXT50	2802-001074	RESONATOR-CERAMIC;4MHz,0.3%,TP,9.5x5x6.5					
PZD50	0403-000649	DIODE-ZENER;RD5.1S,5.1V,4.96-5.22V,200mW					

# 4-1. Cabinet Assembly (1)



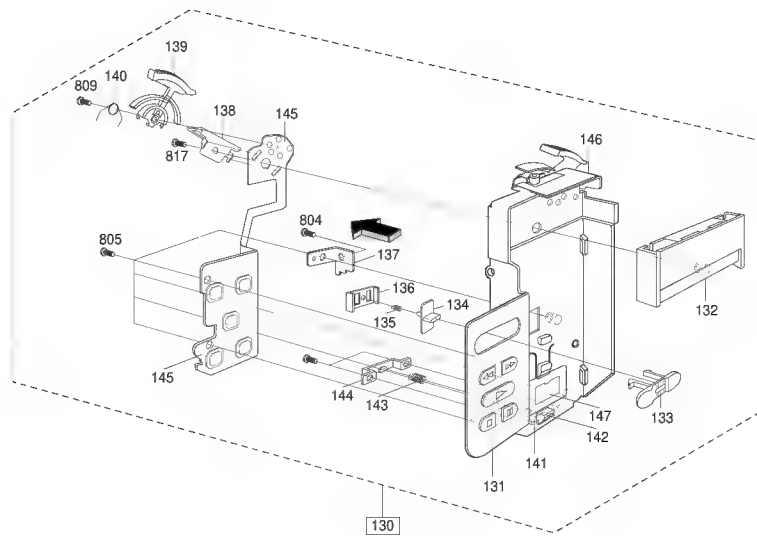
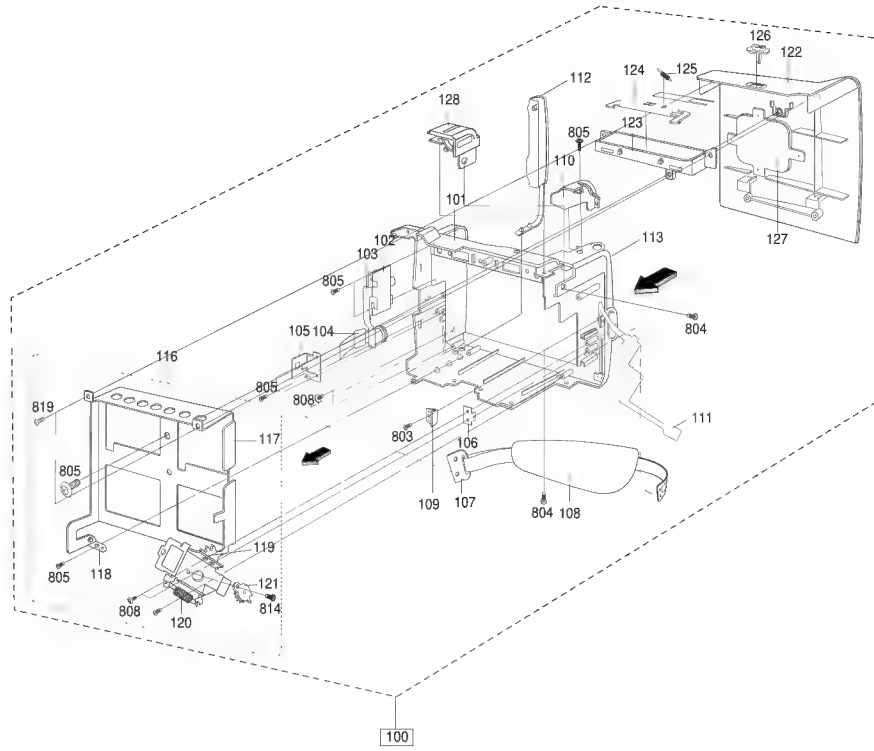
Loc. No	Parts No	Description and Specification	Remark
<b>ASSY-CVF</b>			
250	AD97-00070A	ASSY-CASE CVF;VP-D50,ASS'Y,-	
251	AD97-00696A	ASSY-CASE CVF L;VP-D50,-,-	
252	AD97-00695A	ASSY-CASE CVF R;VP-D50,-,-	
253	AD61-00003A	HOLDER-LCD;-ABS 94 V0,-,BLACK,-,VP-D50	
254	AD61-50708A	GUIDE-LIGHT;-ABS94VO,-,T1.5,BLK,-,SV-S9	
255	AD61-21045A	HOLDER-LIGHT;-ABS94,HB,BLK,-,SV-S99	
256	AD61-00006A	HOLDER-LENS G2;-ABS94 HB,-,BLACK,-,VP-D	
257	AD64-00006A	CASE--EVF LENS;-PC+ABS,-,1.2,32*25.4*17	
258	AD61-00005A	HOLDER-LENS G1;-ABS94 HB,-,BLACK,-,VP-D	
259	AD63-00006A	COVER--KNOB;-ABS94 HB,-,1.0,-,-,VP-D5	
260	AD73-00001A	RUBBER-EYE CUP;SILICONE,29.2X36X28.9,VP-	
270	AD90-10850R	ASSY-CVF BOARD;VP-D50,PAL	
821	6003-001143	SCREW-TAPTITE;PH,+B,M1.7,L6,NI PLT,SWRC	
CNV01	3708-001130	CONNECTOR-FPC/FC/PIC;12P,0.5mm,SMD-S,SN	
CNV02	3708-000514	CONNECTOR-FPC/FFC/PIC;16P,0.5mm,SMD-S,SN	
<b>ASSY-LEFT</b>			
200	AD97-00357A	ASSY-CASE LEFT;VP-D50,ASSY,-	
201	AD64-00011A	CASE--LEFT;-EMI-RESIN(PC/ABS)-,1.5,117	
202	AD64-00020A	BUTTON--LCD;-POM,-,BLK,-,VP-D50	
203	AD61-00030A	SPRING--LCD;-,-,SWPB,4,0.45,-,VP-D50	
204	AD61-00027A	BRACKET--PUSH LCD;-SECC,-,0.5,-,-,VP-D5	
205	AD73-00004A	RUBBER--SPEAKER;IIR,22,VP-D50,-	
206	AD61-00025A	BRACKET--SPEAKER;-STS301-1/2H,-,0.5,-,-	
207	AD61-00007A	HOLDER-LOCK EVF;-POM,-,WHITE,-,VP-D50	
208	AD64-00019A	KNOB--LCD LOCK;-ABS94HB,-,BLK,-,VP-D50	
209	AD66-00005A	SLIDER--LCD LOCK;-POM,-,-,BLK,VP-D50	
210	AD61-00021A	HOLDER--LCD LOCK;-POM,-,BLK,-,VP-D50	
211	AD61-00303A	SPRING--LCD/LOCK;-SUS304,-,TWIST,0.55,	
212	AD61-00094A	BRACKET-HINGE SHAFT;-STS301,-,0.8,-,-,	
214	AD63-00010A	COVER--EVF HINGE;-STS301-3/4H,-,0.5,-,-	
215	AD61-70088A	RAIL-LOCK;-ABS94,HB,-,BLK,-,-	
216	AD41-00025A	FPC;POLYIMIDE,125UM,14P,VP-D50,FPC-MIC	
216	AD99-90009B	ASSY-ANALOG,m;VP-D50,ANALOG,NTSC/PAL	
217	AD61-21009B	HOLDER-ACC. SHOE;-SECC T0.8,-,WHT,-,SV-	
218	AD97-00704A	ASSY-SPEAKER;VP-D50,-,ASSY SPEAKER	
805	AC60-12128A	SCREW-TAP TITE BH;-BH,4 1.7,14,-,FE,BLK	
810	6009-001076	SCREW-SPECIAL;SWRCH18A,-,CH,+M1.7,L5.8(	
813	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	
819	6002-001085	SCREW-TAPPING;CH,+S,M1.7,L5,ZPC(BLK),SW	
<b>ASSY-LCD</b>			
230	AD97-00069A	ASSY--CASE LCD;VP-D50,ASS'Y,-	
231	AD64-00001A	CASE--LCD TOP;-EMI RESIN,-,1.5,83*57*16	
232	AD64-00002A	CASE--LCD BOTTOM;-ABS94HB,-,1.5,80.9*46	
233	AD63-00002A	COVER-HINGE TOP;-ABS94 HB,-,1.0,GRY,-,-	
234	AD63-00003A	COVER;-ABS94 HB,-,1.0,GRY,-,-,VP-D50	
235	AD61-00002A	HOLDER-RING LCD;-POM,-,BLACK,-,-	
236	AD61-00001A	BRACKET--CASE LCD;-SUS 304 1/2H T1.0,-,	
237	AD97-00068A	ASSY-HINGE;VP-D50,ASS'Y,-	
240	AD90-10850U	ASSY-LCD BOARD;VP-D50,PAL	
804	AC60-10028A	SCREW-MACHINE;BH,+M1.7,X3,ZPC,FE,-,-,-	
805	AC60-12128A	SCREW-TAP TITE BH;-BH,4 1.7,14,-,FE,BLK	
806	AD60-00007A	SCREW-MACHINE;BH,FE,-,-,-,+,-,WHT	
807	AC60-10024A	SCREW-MACHINE;BH,+M2,X3,FZW,FE,-,-,-	
811	AD60-10500D	SCREW-MACHINE;-BWSH,+UP,M2,L7,ZPCNYLOK	
812	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	
817	AC60-10061B	SCREW-TAPPING;-BH,-,M2,L5,WHT	
818	6001-000805	SCREW-MACHINE;CH,+M1.7,L3,NI PLT,SWRCH1	
819	6002-001085	SCREW-TAPPING;CH,+S,M1.7,L5,ZPC(BLK),SW	

## 4-2. Cabinet Assembly (2)



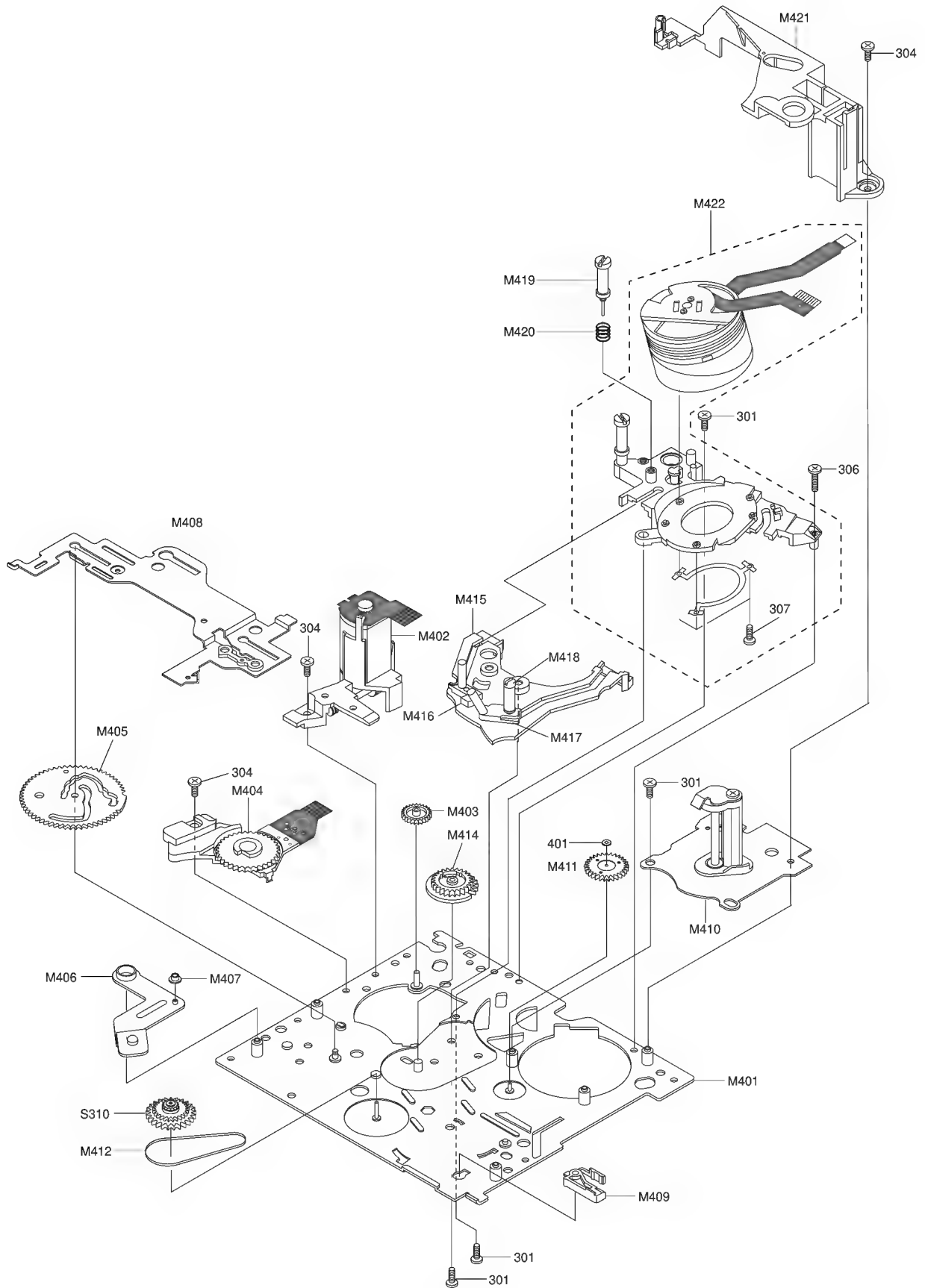
Loc. No	Parts No	Description and Specification	Remark
<b>ASSY-FRONT</b>			
280	AD97-00358A	ASSY-CASE FRONT;VP-D50,ASSY,-	
281	AD64-00012A	CASE-FRONT;-EMI-RESIN(PC/ABS),-,1.5,92X	
282	AD63-00012A	SHEET--MIC;-SPONGE,1,15,9.5,WHT,VP-D50,	
283	AD63-00024A	GRILLE--MIC;-C5120,-,0.15,-,VP-D50	
284	AD73-00005A	RUBBER--CELL;IIR,5,VP-D50,-	
285	AD61-00028A	BRACKET--FRONT;-SECC,-,0.8,-,VP-D50,-	
287	AD97-00706A	ASSY-MIC PCB;VP-D50,-,ASSY MIC PCB	
288	AD97-00705A	ASSY-MIC;VP-D50,-,ASSY MIC	
289	AD69-00100A	PAD--MIC;VP-D50,EPDM,1,36,25,BLK,-,-	
805	AC60-12128A	SCREW-TAP TITE BH;-BH,4 1.7,14,-,FE,BLK	
<b>ASSY-LENS</b>			
160	AD97-00714A	ASSY-LENS;VP-D50,-,ASSY-LENS	
161	AD67-00005A	LENS--HOOD;-AL,-,VP-D50	
162	AD61-00014A	BRACKET--LENS;-SUS304 1/2H,-,0.5T,-,-	
163	AD73-00003A	RUBBER-CCD;SILLICON,12.4*12.4*1.4,VP-D50	
164	AD61-00013A	PLATE-CCD;-AL (A5052),1.2,-,VP-D50	
165	AD61-00017A	HOLDER--LENS HOOD;-PC BLK,-,VP-D50	
166	AD90-10852B	ASSY-LENS ZOOM X11;VP-D50,CANON LENS X11	
167	AD99-90001Q	ASSY-CCD BOARD,m;VP-D50,PAL	
804	AC60-10028A	SCREW-MACHINE;BH,+,M1.7,X3,ZPC,FE,-,-	
805	AC60-12128A	SCREW-TAP TITE BH;-BH,4 1.7,14,-,FE,BLK	
819	6002-001085	SCREW-TAPPING;CH,+,S,M1.7,L5,ZPC(BLK),SW	
<b>ASSY-CHASSIS</b>			
150	AD97-00254A	ASSY--CHASSIS;VP-D50,ASSY,-	
151	AD97-01315A	ASSY-CHASSIS-MAIN;VP-D50,SECC,T 0.8	
152	AD73-00006A	RUBBER--GUIDE DECK;BUTHYL RUB,-,VP-D50,-	
153	AD61-00064A	PLATE-BOTTOM;-SUS 304,0.8,-,VP-D50	
154	AD97-00109A	ASSY--MICOM/CAMERA;VP-D50,-,MICOM/CAMERA	
155	AD99-40002P	ASSY-MAIN BOARD,c;VP-D50,DVC-2-PAL CONTR	
156	AD97-01596A	ASSY-GYRO;VP-D50,NTSC/PAL,GYRO	
170	AD61-00117A	BASE-TRIPOD;-AL-DIECASTING,-,BLK,-,VP-D	
804	AC60-10028A	SCREW-MACHINE;BH,+,M1.7,X3,ZPC,FE,-,-	
815	AC60-10048A	SCREW-TAPPING;BH,+,M1.1,X5,SPC2	
820	6001-001291	SCREW-MACHINE;CH(0.5),*,M1.7,L4,NI PLT,S	

### 4-3. Cabinet Assembly (3)



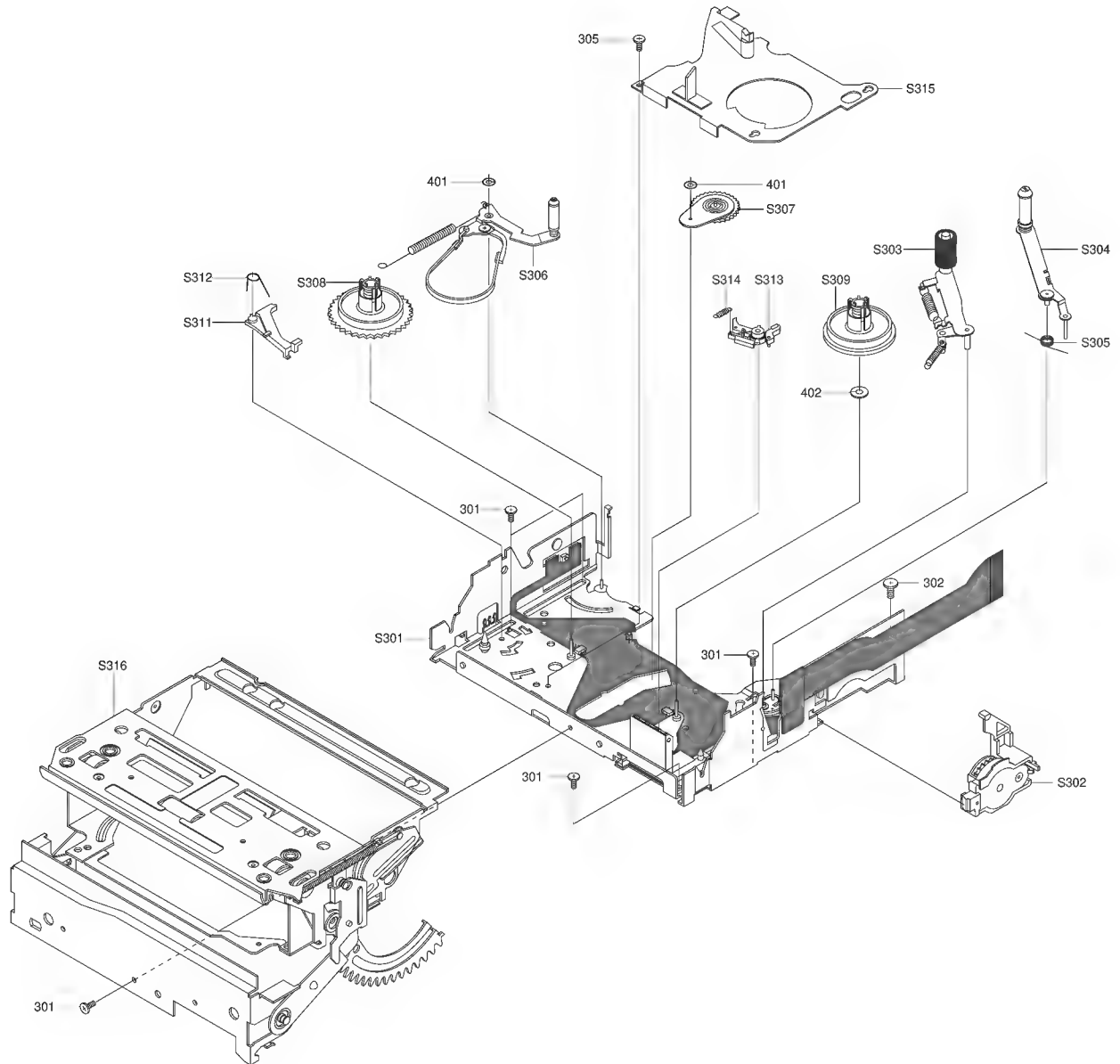
Loc. No	Parts No	Description and Specification	Remark
<b>ASSY-RIGHT</b>			
100	AD97-00253A	ASSY--CASE RIGHT;VP-D50,ASSY,-	
101	AD64-00023A	CASE--RIGHT;-;EMI-RESIN(PC/ABS),-,1.5,-,	
102	AD61-00040A	BRACKET--A/V JACK;-;SUS,-,-,-,-,VP-D50,-	
103	AD97-00709A	ASSY-FPC JACK;VP-D50,-,ASSY FPC-JACK	
104	AD64-00030A	INDICATOR-LED;-;PMMA,-,-,-,-,VP-D50	
105	AD61-00043A	BRACKET--LED;-;SUS,-,-,-,-,VP-D50,-	
106	AD61-00044A	PLATE--BELT GRIP;-;SUS,-,-,-,VP-D50	
107	AD61-00039A	BRACKET--BELT GRIP;-;SUS,-,-,-,-,VP-D50,	
108	AD97-00711A	ASSY-BELT/GRIP;VP-D50,-,-	
109	AD61-00036A	SUPPORT--REC START/STOP;-;ABS 94-HB,-,-,-,	
110	AD63-00008A	COVER--;-;EMI-RESIN,-,1.5,-,-,-,VP-D50	
111	AD97-00710A	ASSY-FPC EJECT;VP-D50,-,ASSY FPC-EJECT	
112	AD63-00020A	COVER--JACK;-;LDPE,-,1.0,BLK,-,-,VP-D50	
113	AD64-00023A	CASE-RIGHT;-;EMI-RESIN(PC/ABS),-,1.5,-,	
116	AD97-00697A	ASSY-BRACKET HOUSING;VP-D50,-,-	
117	AD61-00038A	BRACKET--HOUSING;-;SUS,-,-,-,-,VP-D50,-	
118	AD61-00041A	BRACKET--COVER LEFT;-;SUS,-,-,-,-,VP-D50	
119	AD61-00042A	BRACKET--CCOVER RIGHT;-;SUS,-,-,-,-,VP-D	
120	AC61-60034A	SPRING-EJECT;CS,SUS 304,PI 0.25,D 3,L 9,	
121	AD97-00712A	ASSY-DAMPER;VP-D50,-,-	
122	AD63-00021A	COVER-HOUSING;-;EMI-RESIN,-,1.5,BLK,-,-,	
123	AD64-00027A	CASE--COVER;-;ABS 94-HB,-,-,-,-,VP-D50	
124	AD61-00035A	HOLDER--COVER LOCK;-;ABS 94-HB,-,-,-,VP-	
125	AD61-00045A	SPRING--COVER;-;SWPB,-,-,-,VP-D50	
126	AD64-00026A	KNOB--COVER LOCK;-;ABS 94-HB,-,-,-,VP-D50	
127	AD64-00024A	WINDOW--HOUSING;-;PMMA,-,1.0,WHT,-,VP-D50	
128	AD61-00047A	HOLDER--SHOULDER STRAP;-;SUS,-,-,-,-,VP-D50	
803	AD60-00016A	SCREW-TAPTITE;-;CH,-,-,1.7,3,-	
805	AC60-12128A	SCREW-TAP TITE BH;-;BH,4 1.7,I4,-,FE,BLK	
808	AC60-12128A	SCREW-TAP TITE;CH;TAP1.7,X4,BLK	
813	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	
814	AC60-10018A	SCREW-MACHINE;BH,+,-,M2,X3,FZB,FE,UP,-,-	
819	6002-001085	SCREW-TAPPING;CH,+,-,S,M1.7,L5,ZPC(BLK),SW	
820	6001-001291	SCREW-MACHINE;CH(0.5),*,M1.7,L4,NI PLT,S	
<b>ASSY-REAR</b>			
130	AD97-00359A	ASSY--CASE REAR;VP-D50,ASSY,-	
131	AD64-00013A	CASE-REAR;-;EMI-RESIN(PC/ABS),-,1.5,85.4	
132	AD97-00288A	ASSY-BATTERY TERMIN;VP-D50,ASSY,-	
133	AD64-00015A	KNOB-POWER;-;SBA94HB,-,BLK,-,VP-D50	
134	AD61-00022A	STOPPER--POWER;-;ABS94HB,-,-,RED,VP-D50	
135	AD61-60601A	SPRING-KNOB POWER;-;SUS304 WPB,-,-,-,-	
136	AD61-00018A	HOLDER--POWER;-;POM,-,BLK,-,VP-D50	
137	AD61-00024A	BRACKET--DC JACK;-;SECC,-,0.8,-,-,VP-D50	
138	AD61-00023A	BRACKET--ZOOM;-;SECC,-,0.6,-,-,VP-D50,-	
139	AD64-00017A	KNOB--ZOOM;-;ABS94HB,-,BLK,-,VP-D50	
140	AD61-00029A	SPRING--ZOOM;-;TORSION,STS301,5.5,0.5,-,	
141	AD64-00016A	KNOB--BATTERY EJECT;-;ABS94HB,-,BLK,-,VP	
142	AD66-00004A	SLIDER--BATTERY EJECT;-;POM,-,-,BLK,VP-D	
143	AD61-60535A	SPRING-ADAPTER;-;TS,SUS304,-,-,AA-D1,-	
144	AD61-00019A	HOLDER--BATTERY EJECT;-;ABS94HB,-,BLK,-,	
145	AD97-00708A	ASSY-FPC VCR;VP-D50,-,ASSY FPC-VCR	
146	AD97-00707A	ASSY-FPC DC;VP-D50,-,ASST FPC-DC	
147	AD63-00009A	COVER--TEST;-;PVC,-,0.5,BLK,-,-,VP-D50	
804	AC60-10028A	SCREW-MACHINE;BH,+,-,M1.7,X3,ZPC,FE,-,-,-	
805	AC60-12128A	SCREW-TAP TITE BH;-;BH,4 1.7,I4,-,FE,BLK	
809	AC60-10510A	SCREW-MACHINE;BH,M1.4,X5.5,ALK	
817	AC60-10061B	SCREW-TAPPING;-;BH,-,-,M2,L5,WHT	

## 4-4. Mechanical Parts (Main Chassis)



Loc. No	Parts No	Description and Specification	Remark
301	AC60-12113A	SCREW;FP,BH,+,M1.4,L2.2,S45C-HC	
304	AC60-12135A	SCREW;FP,PH,+,M1.4,L3.5,S45C-HC	
306	AD60-10513A	SCREW-MACHINE-COVER;-;BH,+,FP,M1.4,L6,-,	
307	AD60-00005A	SCREW-SET-BASE-DRUM;-;-,-,M1.4,-,-,-	
401	6031-001149	WASHER-PLAIN;POLYSLIDER,M0.8,ID0.85,OD2.	
M401	AD61-11013A	CHASSIS-MAIN ASSY;-;SUS+C3604BD,-;-,-,-,	
M402	AD61-21031A	HOLDER-LOADING ASSY;-;DURACON+MOTOR,-;-,-,	
M403	AD66-20564A	GEAR-WHEEL LOADING;-;DURACON(M90-44),M0.	
M404	AD34-22001B	SWITCH-MODE ASSY;DC5V,-;-,-,-,-,-	
M405	AD66-20567A	GEAR-CAM MAIN;-;SUS304,M0.5,Z39,-;-,-,-	
M406	AD66-30513A	LEVER-CAM;-;SUS304,T0.5,-;-,-,DD-C2R	
M407	AD66-42002A	ROLLER-CAM MAIN;SUS303,OD2.8,-;-,-,DD-C2R	
M408	AD66-80149A	SLIDER-MAIN;-;SUS304+POM,T0.4,-;-,-,DD-2	
M409	AD66-30501A	LEVER-EJECTOR;-;DURACOM(MS-02),-;-,-,-,DD-	
M410	AD31-12004A	MOTOR-CAPSTAN;DD-C2R,5VDC,+	
M411	AD66-20565A	GEAR-CAPSTAN;-;PA(1724K),M0.4,-;-,-,-,DD-C	
M412	AD66-62001A	BELT-TIMING;-;POLYURETHAN,-;-,-,L84,-;-,-,DD-C	
M414	AD66-20566A	GEAR-CONNECT LOADING;-;DURACON(MS-02),M0	
M415	AD61-50721A	GUIDE-RAIL ASSY;-;POM+SUS+SPRING,-;-,-,-,-	
M416	AD61-21032A	BASE-POLE S ASSY;-;ZDC+SUS303,-;-,-,-,DD-C	
M417	AD61-21033A	BASE-POLE T ASSY;-;ZDC+SUS303+C3604BD,-;	
M418	AD66-40164A	ROLLER-GUIDE T ASSY;-;POM+SUS+C3604BD,+;	
M419	AD66-40165A	ROLLER-GUIDE S ASSY;-;POM+SUS+C3604BD,+;	
M420	AD61-60582A	SPRING-GR(S);-;CS,SWPB,PI0.45,OD3.7,-;-,-,DD	
M421	AD61-21153A	HOLDER FPC;POM,NAT,DD-L	
M422	AD97-00011A	ASSY- DRUM;DD-2,2HD,-	
S310	AD66-50101A	CLUTCH-ASSY;-;DURACON+FELT+POLY,-;-,-,DD-C2R	

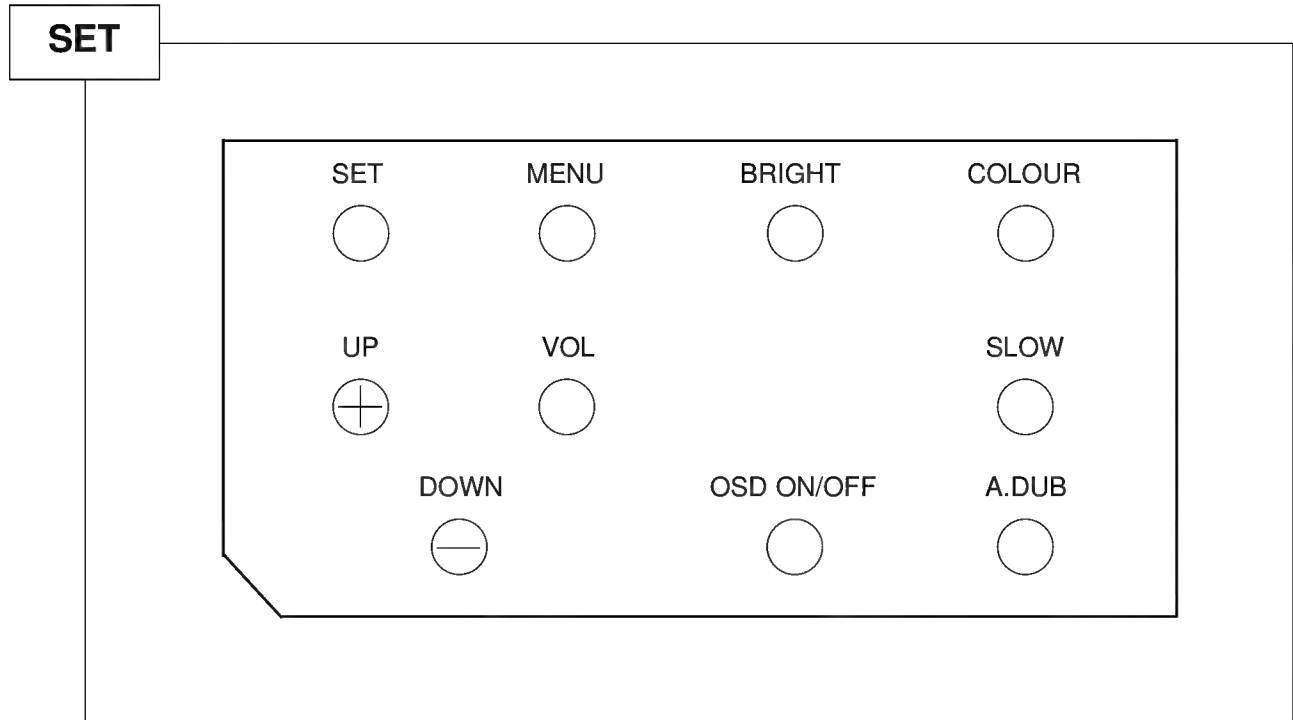
## 4-5. Mechanical Parts (Sub Chassis)



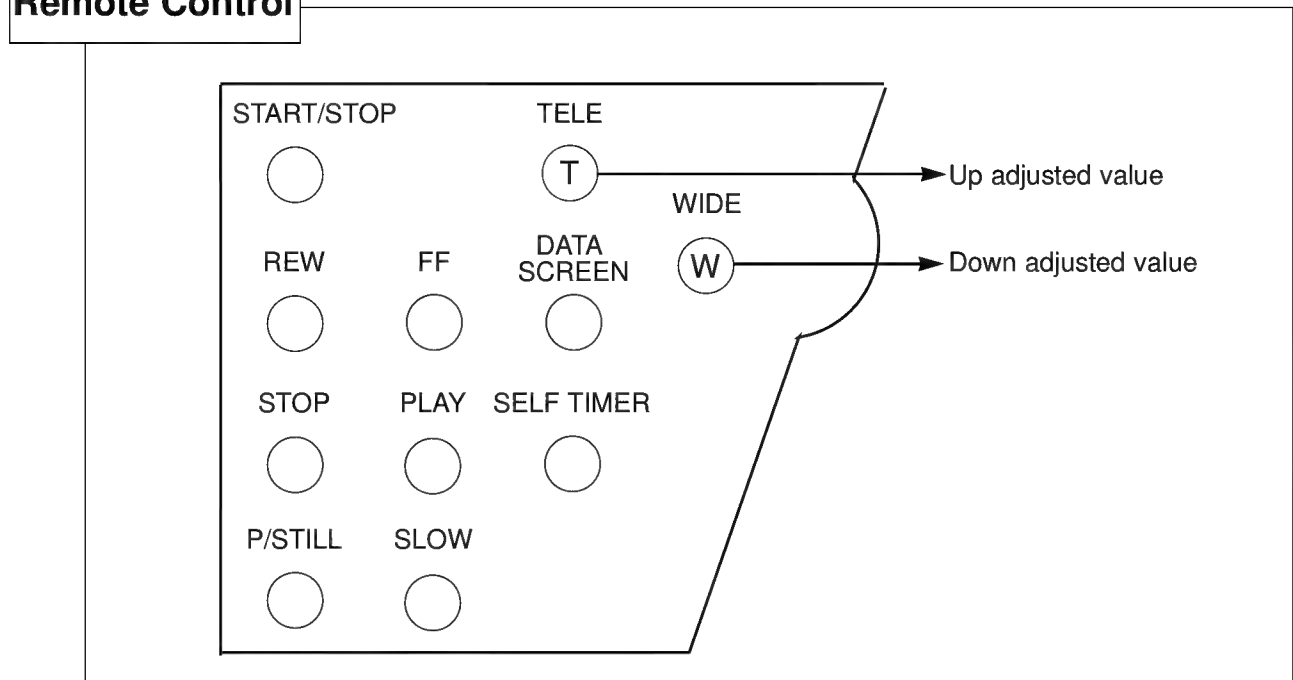
Loc. No	Parts No	Description and Specification	Remark
301	AC60-12113A	SCREW;FP,BH,+,M1.4,L2.2,S45C-HC	
302	AD60-12001B	SCREW-CAPSTAN;BH	
305	AC60-12111A	SCREW;FP,BH,+,M1.4,L1.2,S45C-HC	
401	6031-001149	WASHER-PLAIN;POLYSLIDER,M0.8,ID0.85,OD2.	
402	AD60-32004A	WASHER-PLAIN;-,-,ID1.4,OD3.0,T0.2,-,POLY	
S301	AD61-11011A	CHASSIS-SUB ASSY;-,-,SUS+C3604BD,-,-,-,-,D	
S302	AD63-30566A	COVER-DAMPER ASSY;-,-,POM+Y29TO-E,-,-,-,-,	
S302	AC61-82002A	DAMPER-HOUSING;Y29TO-E,-,-,14G,-,-,DE-6,-	
S303	AD66-30507A	ARM-PINCH R. ASSY;-,-,SUS304+POM,-,-,-,DD-	
S304	AD66-30512A	ARM-REVIEW ASSY;-,-,SUS304+SUS303,-,-,-,DD	
S305	AD61-60559A	SPRING-REVIEW ARM;	
S306	AD66-30511A	ARM-TENSION ASSY;-,-,SUS304+POM+FELT,-,-,-	
S307	AD66-10257A	IDLER-ASSY;-,-,DURACON+SUS303,-,-,DD-C2R	
S308	AD66-10255A	REEL-S ASSY	
S309	AD66-10256A	REEL-T ASSY;-,-,DURACON+SUS304,-,-,-,DD-C2R	
S311	AD66-30598A	BRAKE-S ASSY;-,-,NYLON,SUS,-,-,-,DD-2	
S312	AD61-60581A	SPRING-BRAKE(S);-,-,TS,SWPB,0.4,3.0,-,-,DD-2	
S313	AD66-30504A	BRAKE-T ASSY;-,-,DURACON+SUS303,-,-,DD-C2R	
S314	AD61-60555A	SPRING-BRAKE T;-,-,TS,SUS304,PI0.29,-,-,DD	
S315	AD63-30542A	COVER-REEL ASSY;-,-,SUS304+POM+PMMA,-,-,-,-	
S316	AD61-82001A	HOUSING-ASSY;-,-,SUS+SPRING+ETC,-,-,-,DD-C2R	

MEMO

## 2. Buttons Location



## Remote Control



3. If you want to finish the adjustment mode, you have to do Power Reset.  
The Power Reset means that you pull out the power source and pull in it again.

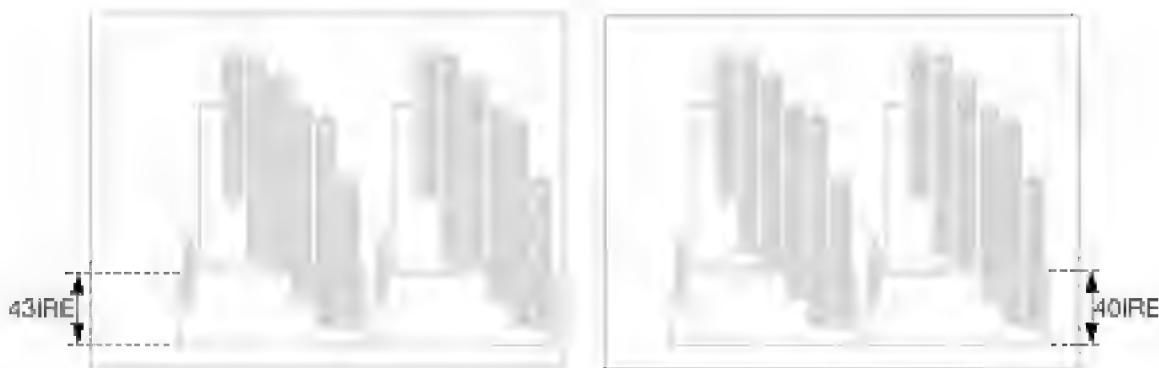
## 3-1-2. VCR Adjustment

### 1. VCR Adjustment Items

Items	Adj. value	Description
V-REF	Adjustment	Video reference
EXTA	7F	Audio VCO PLL
RECCUR	80	REC current
A-REF1	80	Audio 48KHz mode
A-REF2	80	Audio 44.1KHz mode
A-REF3	80	Audio 32KHz mode
HDSWP	Adjustment	Head Adjust switch
ZOOMVR	Adjustment	Adjust center value in the ZOOM switch
LP:A0	FF	RESERVED(fixed value)

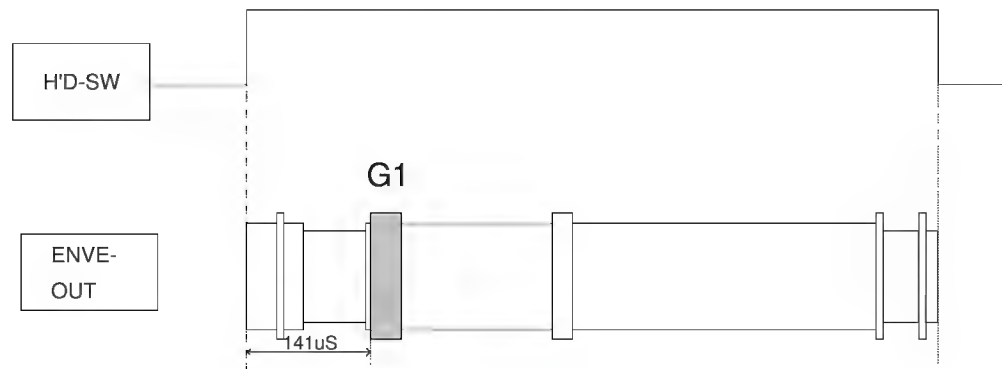
### 2. How to adjust Video-Reference (V-REF).

- 1) Connect video output cable to wave form scope. The wave form scope must be connected to monitor.  
(75Ω termination)
- 2) standard color bar tape.
- 3) Set to the VCR adjustment mode.
- 4) Adjust VREF so that SYNC level of video output signal is PAL(43 IRE) and NTSC(40 IRE). (Adjustment value range : 69 -6A)



### 3. How to adjust Head Switching (HDSWP)

- 1) Connect No. 3 pin of WAFER CNPI01 (HEAD-SW signal) for adjustment to CH1 of oscilloscope.
- 2) Connect No. 5 pin of WAFER CNPI01 (ENVE-OUT signal) for adjustment to CH2 of oscilloscope.
- 3) Play standard color bar tape.
- 4) Select HDSW of the video adjustment mode.
- 5) Adjust so that the time between HEAD-SW START and G1 START OF ENVE-OUT is  $141\mu\text{s}$  ( $\pm 10\mu\text{s}$ ).



### 4. Center Value Adjustment of Zoom Switch



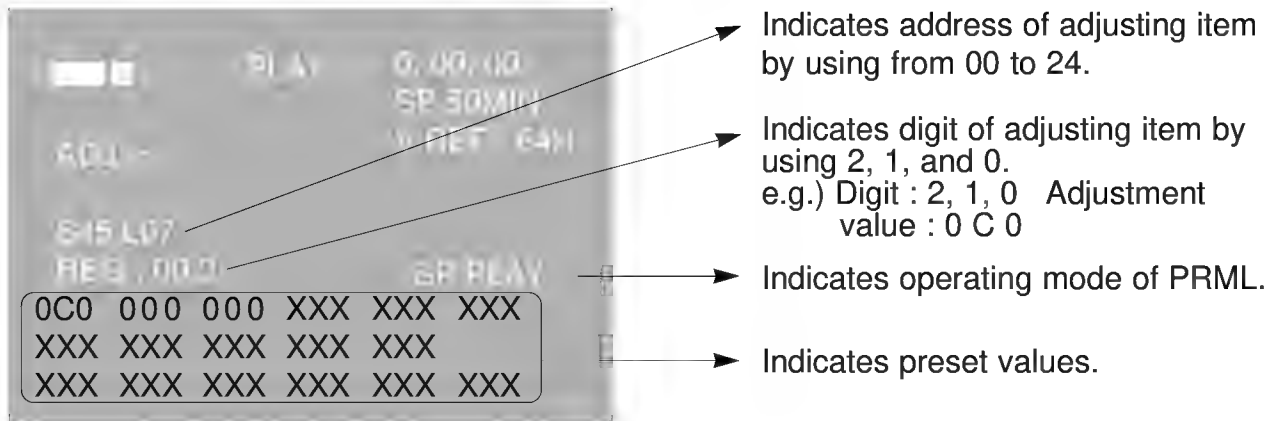
- 1) Select ZOOMVR in the video adjustment mode.
- 2) Adjust ZOOM SW so that the switch is put in the middle of T and W.
- 3) Adjust ZOOMVR so that the current value of ZOOM SW is equal to the adjusted ZOOMVR value.

### 3-1-3. PRML Adjustment Preparation

#### 1. How to set up PRML Adjustment Mode

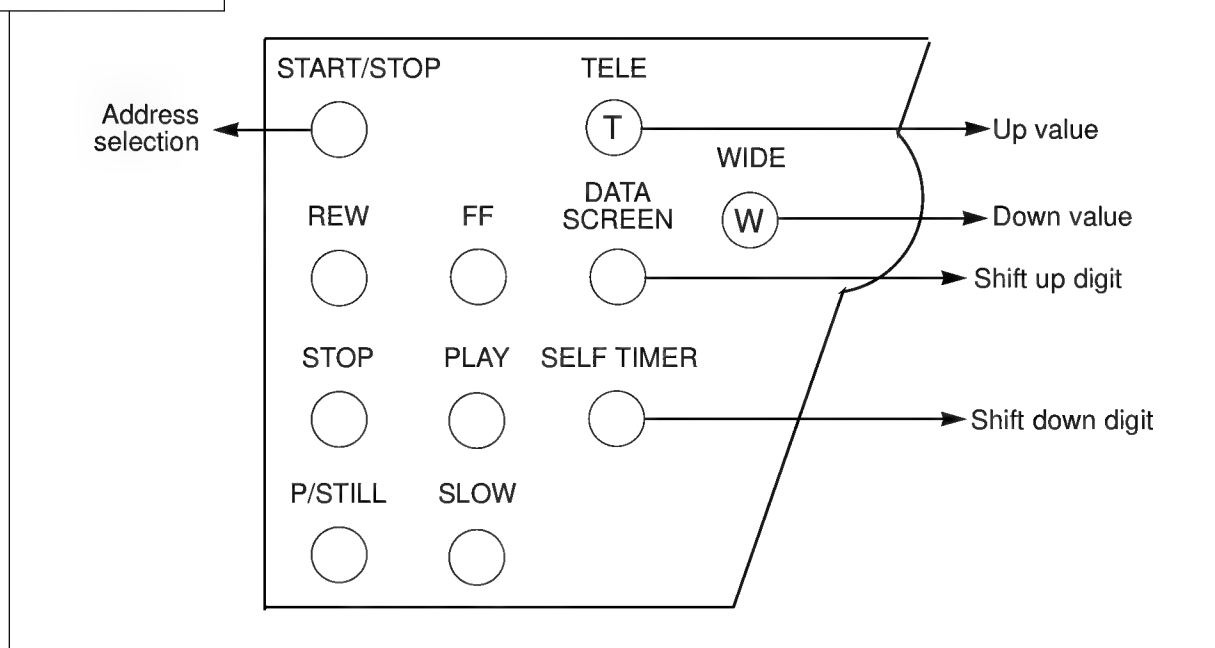
##### PRML Adjustment Setup

1. Press the Display button in VCR adjustment mode.
2. When monitor OSD appears as shown below, PRML adjustment mode has been activated successfully.



#### 2. Remote Control Button Location

##### Remote Control



3. Press the Address selection button (START/STOP button) to skip the next address in order to finish the adjustment and store data. After finishing the adjustment, you have to do power reset.

\* The PRML BER will be set to the right adjustment when shipping out video camera and PCB ASSY from factory.

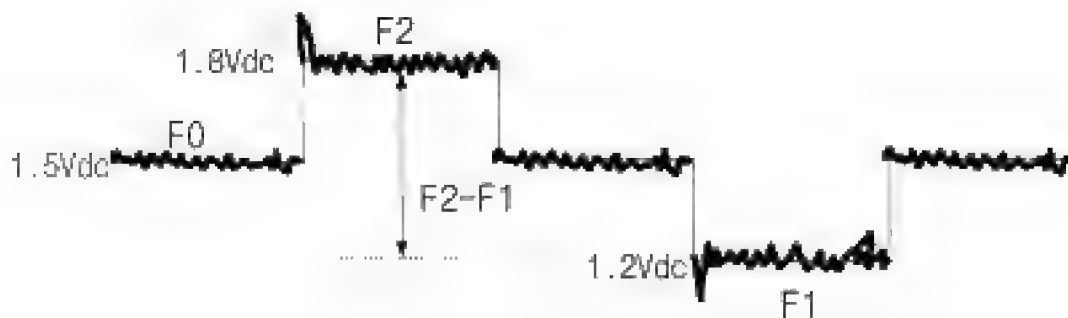
### 3-1-4. PRML Adjustment

#### 1. How to set up PRML Adjustment Mode

Address	Name	MODE		
		SP		
		PB	SLOW	SEARCH
00	PGC/SQPI/FIRO	0C0	0C0	0C0
01	IDO/DOD/ATFAQ/FIR4	000	000	000
02	GDH0/FIR1H0	000	2C0	2C0
03	GDH1/FIR1H1	000	2C0	2C0
04	LPGC/DATF/PGCEN/TDOI/FIR3H0	400	400	400
05	BPGC/FCLP/FIR3H1	600	600	600
06	LTG/LPGC/BPLG/TC13/TC2/FIR2	805	805	805
07	ATFFC/DOHG/ATFHG/HGSEL/SLEEP	* C00	C00	C00
08	DDOSC/SEFTH/DLZI/TADAPT/VIT	41E	41E	41E
09	ATFSEL/SYMC/DAMP	223	223	223
0A	EZCNT/LPFBYP/PDTST/...	000	000	000
0B	HLD/FCHO/BSTH0	* 18A	1EA	1EA
0C	CMXEN/FCH1/BSTH1	* 1EA	1EA	1EA
0D	ATGH0/DOGCH0/TP1SEL	865	865	865
0E	ATGCH1/DOGCH1/TSEL	860	860	860
0F	FRQ/RLZSEL/...	00C	00C	00C
24	AE/DZ/INTL/.../TWR	FE2	7E2	7E2

#### 2. ATF Adjustment Specifications

- 1) Adjust REG7-2(ATFFC) (You must adjust ATFFC only.).
- 2) Adjust the level as the following.  
Adjust ATF so that F2-F1 level is maximized.  
Adjust ATF so that F2/F1 level is  $\pm 0.3V_{dc}$  more than F0 (1.5V<sub>dc</sub>).  
The normal level is displayed as shown below.
- 3) Connect the following output to No. 4 of TP-CON CNPI01 for adjustment.



(ATF error wave form)

### 3. BER Adjustment Specifications (Reference)

- 1) Turn off Adaptive. . . . . 7E2 ;REG24
- 2) Find out the optimally minimum BER value in REG. 11 BOOST.  
 start values . . . . . 1EA ;REG12  
 The optimum means the number of error is less than 10 ea. ;Current D50 manufac  
 turing standard
- If the minimum value is as the followings, designate as the right values.  
 [Add +2 to select the one.]
- |   |                      |
|---|----------------------|
| Min . . . . .                             | ;Selection valueless |
| less than 6[6, 5, 4, 3, 2, 1] . . . . . 8 | ;REG12 ===1E8        |
| 7 . . . . . 9                             | ;REG12 ===1E9        |
| 8 . . . . . 10                            | ;REG12 ===1EA        |
| 9 . . . . . 11                            | ;REG12 ===1EB        |
- 3) Find out the optimally min. and max. BER values in REG. 11 CUTOFF FREQUENCY.  
 Start values . . . . . 14A ;REG11  
 The optimum means the number of error is less than 10 ea. ;Current D50 manufac  
 turing standard
- If the min. and max. value is as the followings, designate as the right values.
- |   |                      |
|---|----------------------|
| Min./Max . . . . .                        | ;Selection valueless |
| 05/15 ===Median(10) . . . . . 10          | ;REG12 ===14A        |
| If the median is less than 9 . . . . . 09 | ;REG12 ===12A        |
- Be sure not to select values less than 9(12A) and more than 13(1AA)  
 Always select among 12A, 14A, 16A, 18A and 1AA.  
 But, in case min. value of CUTOFF FREQ. is more than 11, it enables to adjust from 1CA to 1EA.
- 4) Find out the optimally minimum BER value in REG. 11 BOOST.  
 start values . . . . . 14A ;REG11  
 The optimum means the number of error is less than 10 ea. ;Current D50 manufac  
 turing standard
- If the minimum value is as the followings, designate as the right values.  
 [Add +2 to select the one.]
- |   |                      |
|---|----------------------|
| Min . . . . .                             | ;Selection valueless |
| less than 6[6, 5, 4, 3, 2, 1] . . . . . 8 | ;REG12 ===1#8        |
| 7 . . . . . 9                             | ;REG12 ===1#9        |
| 8 . . . . . 10                            | ;REG12 ===1#A        |
| 9 . . . . . 11                            | ;REG12 ===1#B        |
- ;Always select among 8, 9, A and B.
- 5) Turn on Adaptive. . . . . ;REG24 ===FE2
- 6) Check the value is input to unit correctly.

## 3-2 Camera Adjustment

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Note: How to adjust the camera system.

- 1) EEPROM stores confirmed adjustment value of each adjustment step.
- 2) DSP (Digital Signal Process : ICP05-MAIN BOARD) digitalizes the camera signal.
- 3) When changing ICP05-MAIN BOARD of EEPROM, readjust main board. While changing LCD board-ICL202 and CVF board-ICV02, always readjust each part.  
Since EEPROM stores confirmed adjustment value of each adjustment step, readjusting must be performed in order to store the changed data.
- 4) Adjust the following items after changing LENS ASSY.
  - a. LENS ZOOM TRACK
  - b. AUTO HALL
  - c. AUTO IRIS
- 5) Adjust the following items after changing EEPROM and MAIN BOARD.
  - a. LENS ZOOM TRACK
  - b. AUTO HALL
  - c. AE TARGET
  - d. AUTO GAIN CONTROL
  - e. AUTO IRIS
  - f. AUTO WHITE BALANCE (indoor)
  - g. AUTO WHITE BALANCE (outdoor)

### 3-2-1 Adjustment Preparation

#### 1. Measuring Instrument

- 1) DC power supply
- 2) Oscilloscope
- 3) PAL vectorscope
- 4) PAL wave form monitor
- 5) PAL TV or monitor
- 6) Color bar chart  
Gray scale chart

#### 2. Camera PCB configuration

- 1) MAIN PCB
- 2) CCD PCB
- 3) CVF PCB
- 4) LCD PCB
- 5) GYRO PCB
- 6) CONNECTION PCB

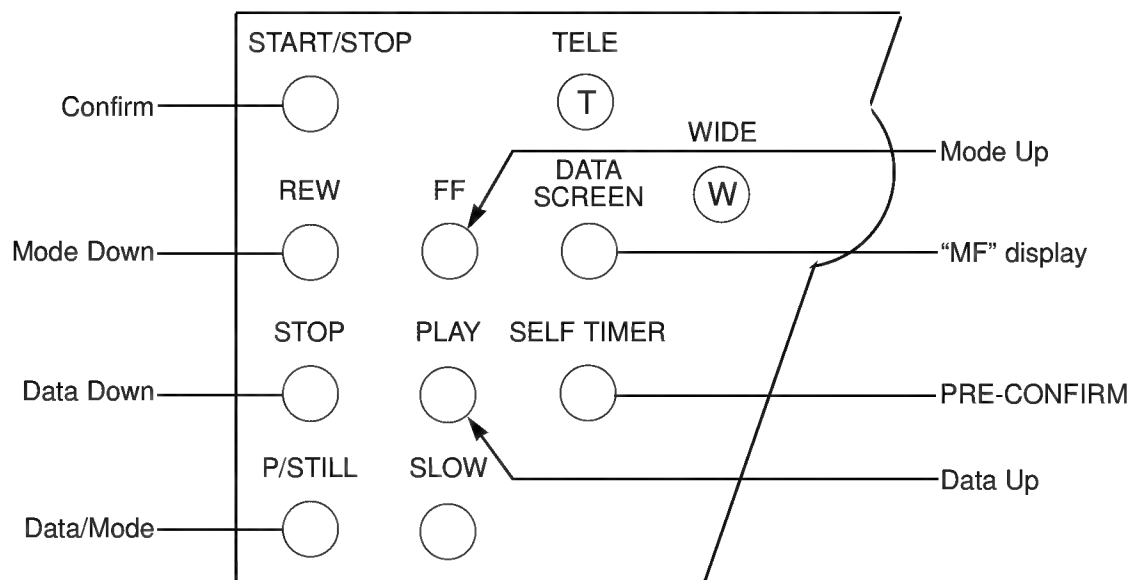
#### 3. Before you start

- 1) Use the buttons on the remote control when adjusting camera.
- 2) Press the "START/PAUSE" button when storing confirmed adjustment value of each adjustment step in EEPROM.
- 3) There is a flicker on screen after finishing each adjustment step.
- 4) To clear the adjustment mode, pull out the power source.

#### 4. Functions of each button on the Remote Control

Button	Description
START/STOP (Confirm)	Stores changed value in the adjustment and auto adjustment mode.
STOP (Data Down)	Changes data in the adjustment state.
PLAY (Data Up)	
FF (Mode Up)	Changes mode.
REW (Mode Down)	
P/STILL (Data/Mode)	
DATA SCREEN	Uses this button in lens and auto adjustment(indicates MF on screen.).
SELF TIMER	PRE-CONFIRM

In adjustment mode, the buttons of the remote control is as the followings.



Note: In service adjustment mode, button names are different from those in customer function control mode.

e.g.) "START/STOP" is the same as "Confirm".

#### 5. How to set up the camera adjustment mode

##### STEP 1

- 1) Connect the power source (battery/DC cable).
- 2) Open Housing from video camera.
- 3) Set the "CAMERA/VCR" switch to "CAMERA" position.
- 4) The OSD appears.

##### STEP 2

Press and hold the "SLOW" button and "VOL" button on the video camera at the same time for more than 5 seconds.

##### STEP 3

Monitor OSD shows "80 XX XX". Then camera adjustment mode has been activated successfully.

Note : "XX" indicates variable values.

Address	Data	Name	Remark
0	0	D_DFP_DUMMY0	/*DUMMY*/
1	0	D_DFP_DZOOM_MODE	/*DZOOM MODE*/
2	0	D_DFP_HZ_INT	/*H ZOOM H INTEGER*/
3	0	D_DFP_HZ_SUB	/*H ZOOM SUB PIXEL*/
4	0	D_DFP_HZ_STEP	/*H ZOOM STEP*/
5	0	D_DFP_VZ_SUB	/*V ZOOM SUB PIXEL*/
6	0	D_DFP_VZ_STEP	/*V ZOOM STEP*/
7	78	D_DFP_EIS_I	/*EIS INT*/
8	31	D_DFP_FST_NO_L	/*FLAME SHIFT LSB NO.*/
9	8	D_DFP_FST_NO_H	/*FLAME SHIFT MSB NO.*/
A	0	D_DFP_SHUTTER_L	/*SHUTTER SPEED DATA LSB*/
B	0	D_DFP_SHUTTER_H	/*SHUTTER SPEED DATA MSB*/
C	0	D_DFP_TG_MODE	/*TG MODE*/
D	1	D_DFP_DELAY_CONT	/*DELAY CONTROL*/
E	0	D_DFP_RGB_SEL	/*RGB SELECT*/
F	2	D_DFP_GMY1	/*GAMMA Y1*/
10	8	D_DFP_GMY2	/*GAMMA Y2*/
11	13	D_DFP_GMY3	/*GAMMA Y3*/
12	28	D_DFP_GMY4	/*GAMMA Y4*/
13	46	D_DFP_GMY5	/*GAMMA Y5*/
14	68	D_DFP_GMY6	/*GAMMA Y6*/
15	80	D_DFP_GMY7	/*GAMMA Y7*/
16	98	D_DFP_GMY8	/*GAMMA Y8*/
17	2	D_DFP_GHC1	/*GAMMA C1*/
18	8	D_DFP_GHC2	/*GAMMA C2*/
19	13	D_DFP_GHC3	/*GAMMA C3*/
1A	28	D_DFP_GHC4	/*GAMMA C4*/
1B	44	D_DFP_GHC5	/*GAMMA C5*/
1C	66	D_DFP_GHC6	/*GAMMA C6*/
1D	82	D_DFP_GHC7	/*GAMMA C7*/
1E	98	D_DFP_GHC8	/*GAMMA C8*/
1F	FA	D_DFP_C_REF	/*CLAMP REFERENCE*/
20	2B	D_DFP_RWB	/*R GAIN Adjust
21	24	D_DFP_GWB	/*G GAIN Adjust
22	80	D_DFP_BWB	/*B GAIN Adjust
23	D	D_DFP_ABBR	/*AUTO BLACK BALANCE R DC Adjust
24	0	D_DFP_ABBG	/*AUTO BLACK BALANCE R DC Adjust
25	F6	D_DFP_ABBB	/*AUTO BLACK BALANCE R DC Adjust
26	59	D_DFP_DMCOA1	/*MATRIX GAIN A1*/
27	D9	D_DFP_DMCOA2	/*MATRIX GAIN A2*/
28	F2	D_DFP_DMC0B1	/*MATRIX GAIN B1*/
29	72	D_DFP_DMC0B2	/*MATRIX GAIN B2*/
2A	0	D_DFP_RHUEN	/*R HUE NEGATIVE*/
2B	0	D_DFP_RHUEP	/*R HUE POSITIVE*/
2C	A	D_DFP_BHUEN	/*B HUE NEGATIVE*/

2D	24	D_DFP_BHUEP	<i>/*B HUE POSITIVE*/</i>
2E	9B	D_DFP_RYGN	<i>/*R-Y NEGATIVE GAIN*/</i>
2F	9B	D_DFP_RYGP	<i>/*R-Y POSITIVE GAIN*/</i>
30	90	D_DFP_BYGN	<i>/*B-Y NEGATIVE GAIN*/</i>
31	90	D_DFP_BYGP	<i>/*B-Y POSITIVE GAIN*/</i>
32	36	D_DFP_MTX_G	<i>/*MATRIX G*/</i>
33	24	D_DFP_MTX_Y	<i>/*MATRIX Y*/</i>
34	C0	D_DFP_GHC9	<i>/*GAMMA C9*/</i>
35	7C	D_DFP_H_GAIN_A	<i>/*H CORE TYPE, H GAIN*/</i>
36	7C	D_DFP_V_GAIN_A	<i>/*V CORE TYPE, V GAIN*/</i>
37	3A	D_DFP_CORE_LVL	<i>/*YE_CS,YH_CS,H CORE LEVEL*/</i>
38	C7	D_DFP_SLICE_LVL	<i>/*CLIP TYPE,SLICE LEVEL*/</i>
39	AC	D_DFP_YHI_REF	<i>/*Y HI LIGHT REFERENCE*/</i>
3A	AC	D_DFP_YEDGE_REF	<i>/*Y EDGE REFERENC*/</i>
3B	A8	D_DFP_FADE_COF	<i>/*FADE COEFFICIENT*/</i>
3C	E0	D_DFP_WT_LVL	<i>/*WHITE LEVEL CONTROL*/</i>
3D	0	D_DFP_E1_REF	<i>/*E1 REF LEVEL*/</i>
3E	0	D_DFP_E1_CONTROL	<i>/*EFFECT 1 CONTROL*/</i>
3F	18	D_DFP_DELTA_M	<i>/*DELTA M,C CONTROL*/</i>
40	0	D_DFP_EFF_MODE	<i>/*EFFECT MODE*/</i>
41	4	D_DFP_AF_FILT	<i>/*HPF SELECTION*/</i>
42	0	D_DFP_AF_CORE	<i>/*AF DATA NOISE CORING*/</i>
43	28	D_DFP_AFVS_A	<i>/*AF A WINDOW V START*/</i>
44	69	D_DFP_AFVE_A	<i>/*AF A WINDOW V END*/</i>
45	5F	D_DFP_AFHS_A	<i>/*AF A WINDOW H START*/</i>
46	AF	D_DFP_AFHE_A	<i>/*AF A WINDOW H END*/</i>
47	8	D_DFP_AFVS_B	<i>/*AF B WINDOW V START*/</i>
48	8C	D_DFP_AFVE_B	<i>/*AF B WINDOW V END*/</i>
49	37	D_DFP_AFHS_B	<i>/*AF B WINDOW H START*/</i>
4A	D7	D_DFP_AFHE_B	<i>/*AF B WINDOW H END*/</i>
4B	B0	D_DFP_AF_Y	<i>/*AF Y REFERENCE*/</i>
4C	25	D_DFP_AEVS_A	<i>/*AE A WINDOW V START*/</i>
4D	62	D_DFP_AEVE_A	<i>/*AE A WINDOW V END*/</i>
4E	54	D_DFP_AEHS_A	<i>/*AE A WINDOW H START*/</i>
4F	93	D_DFP_AEHE_A	<i>/*AE A WINDOW H END*/</i>
50	24	D_DFP_AEVS_B	<i>/*AE B WINDOW V START*/</i>
51	89	D_DFP_AEVE_B	<i>/*AE B WINDOW V END*/</i>
52	29	D_DFP_AEHS_B	<i>/*AE B WINDOW H START*/</i>
53	C3	D_DFP_AEHE_B	<i>/*AE B WINDOW H END*/</i>
54	D8	D_DFP_AE_Y	<i>/*AE Y REFERENCE*/</i>
55	65	D_DFP_WB_YU	<i>/*AWB Y UP*/</i>
56	38	D_DFP_WB_YD	<i>/*AWB Y DOWN*/</i>
57	24	D_DFP_WBVS_A	<i>/*AWB A WINDOW V START*/</i>
58	8C	D_DFP_WBVE_A	<i>/*AWB A WINDOW V END*/</i>
59	1E	D_DFP_WBHS_A	<i>/*AWB A WINDOW H START*/</i>
5A	D0	D_DFP_WBHE_A	<i>/*AWB A WINDOW H END*/</i>

5B	18	D_DFP_WBMAP00	/*AWB I COORDINATE SELECT MAP*/
5C	18	D_DFP_WBMAP01	/*AWB I COORDINATE SELECT MAP*/
5D	18	D_DFP_WBMAP02	/*AWB I COORDINATE SELECT MAP*/
5E	18	D_DFP_WBMAP03	/*AWB I COORDINATE SELECT MAP*/
5F	20	D_DFP_WBMAP04	/*AWB I COORDINATE SELECT MAP*/
60	80	D_DFP_WBMAP05	/*AWB I COORDINATE SELECT MAP*/
61	80	D_DFP_WBMAP06	/*AWB I COORDINATE SELECT MAP*/
62	C0	D_DFP_WBMAP07	/*AWB I COORDINATE SELECT MAP*/
63	E0	D_DFP_WBMAP08	/*AWB I COORDINATE SELECT MAP*/
64	F0	D_DFP_WBMAP09	/*AWB I COORDINATE SELECT MAP*/
65	F0	D_DFP_WBMAP0A	/*AWB I COORDINATE SELECT MAP*/
66	70	D_DFP_WBMAP0B	/*AWB I COORDINATE SELECT MAP*/
67	38	D_DFP_WBMAP0C	/*AWB I COORDINATE SELECT MAP*/
68	3C	D_DFP_WBMAP0D	/*AWB I COORDINATE SELECT MAP*/
69	1E	D_DFP_WBMAP0E	/*AWB I COORDINATE SELECT MAP*/
6A	F	D_DFP_WBMAP0F	/*AWB I COORDINATE SELECT MAP*/
6B	F8	D_DFP_WBMAP10	/*AWB I COORDINATE SELECT MAP*/
6C	F8	D_DFP_WBMAP11	/*AWB I COORDINATE SELECT MAP*/
6D	FC	D_DFP_WBMAP12	/*AWB I COORDINATE SELECT MAP*/
6E	F5	D_DFP_WBMAP13	/*AWB I COORDINATE SELECT MAP*/
6F	7F	D_DFP_WBMAP14	/*AWB I COORDINATE SELECT MAP*/
70	3F	D_DFP_WBMAP15	/*AWB I COORDINATE SELECT MAP*/
71	1F	D_DFP_WBMAP16	/*AWB I COORDINATE SELECT MAP*/
72	F	D_DFP_WBMAP17	/*AWB I COORDINATE SELECT MAP*/
73	3	D_DFP_WBMAP18	/*AWB I COORDINATE SELECT MAP*/
74	1	D_DFP_WBMAP19	/*AWB I COORDINATE SELECT MAP*/
75	0	D_ADJ_LENSZOOMH	/*PI ONE MOVE ZOOM H*/
76	0	D_ADJ_LENSZOOML	/*PI ONE MOVE ZOOM L*/
77	0	D_ADJ_LENSFOCUSH	/*PI ONE MOVE FOCUS H*/
78	0	D_ADJ_LENSFOCUSL	/*PI ONE MOVE FOCUS L*/
79	F8	D_MASK_AFOPTION	/*AF OPTION*/
7A	54	D_ZZ_THRES	/*AF ZZ MODE EXIT THRESHOLD*/
7B	8E	D_DFP_SDLYLOW	/*system delay low 8bit*/
7C	0	D_DFP_SDLYHIGH	/*system delay high 2bit*/
7D	0	D_DFP_TESTPATT	/*test pattern 0: ccd, 1:color bar,2:lamp &impulse*/
7E	C0	D_DFP_GMY9	/*gamma y9*/
7F	0	D_DFP_DLYADJ	/*analog system delay adjust*/
80	67	D_AWB_DETECTRATIO	/*128 AWB WHITE DETECT PERCENT*/
81	A8	D_EEP_IRISCONH	/*129 IRIS control upper data for IRIS control data*/
82	FF	D_EEP_IRISCONL	/*130 IRIS control lower data for IRIS control data*/
83	3	D_CDS_MODEH	/*161 ad9803 mode data h*/
84	3	D_CDS_MODEL	/*162 ad9803 mode data l*/
85	0	D_CDS_AGCCONH	/*163 ad9803 agc data h*/
86	A0	D_CDS_AGCCONL	/*164 ad9803 agc data l*/
87	19	D_CDS_HALLGAIN	/*165 ad9803 DAC1 data*/
88	A0	D_CDS_HALLREF	/*166 ad9803 DAC2 data*/

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89	D	D_CDS_MODE2	<i>/*167 ad9803 MODE2 data*/</i>
8A	A	D_CDS_CCDHOLD	<i>/*168 ad9803 CCD CORRECTION HOLD MODE */</i>
8B	10	D_EEP_EISVADGAIN	
8C	1E	D_EEP_EISHADGAIN	
8D	EB	D_EEP_EISVCENGAIN	
8E	EB	D_EEP_EISHCENGAIN	
8F	7	D_EEP_EISNOISE	
90	12	D_EEP_ZPHOTOH	<i>/*0x122a r2zt_ZPulsePhoto&gt;&gt;8*/</i>
91	78	D_EEP_ZPHOTOL	<i>/*r2zt_ZPulsePhoto&amp;0xff*/</i>
92	12	D_EEP_FPHOTOH	<i>/*0x1170 r2zt_FPulsePhoto&gt;&gt;8*/</i>
93	36	D_EEP_FPHOTOL	<i>/*r2zt_FPulsePhoto&amp;0xff*/</i>
94	4	D_EEP_ZSPEED	<i>/*0X9C ZOOM SPEED*/</i>
95	0	D_EEP_FTELEERRH	<i>/*0x122a r2zt_ZPulsePhoto&gt;&gt;8*/</i>
96	6	D_EEP_FTELEERRL	<i>/*r2zt_ZPulsePhoto&amp;0xff*/</i>
97	FF	D_EEP_FWIDEERRH	<i>/*0x1170 r2zt_FPulsePhoto&gt;&gt;8*/</i>
98	E8	D_EEP_FWIDEERRL	<i>/*r2zt_FPulsePhoto&amp;0xff*/</i>
99	20	D_EEP_AFTOPTHR	<i>/* AF top threshold*/</i>
9A	10	D_EEP_ZTZZDELTA	<i>/*=16 ztrack zigzag hall effect value*/</i>
9B	40	D_EEP_ZTZZDELTA2	<i>/*=40h zt zigzag value */</i>
9C	2	D_EIS_INITIME	<i>/*power initial eis off time (set value+1.5sec)*/</i>
9D	40	D_EEP_AFLOWRATIO	<i>/*0x40 ratio low reference */</i>
9E	F0	D_EEP_WIDE_DZ	<i>/*wide mode offset dzoom stepE*/</i>
9F	D	D_TEST_AFHALL	<i>/*aeavr low wb stop percent */</i>
A0	AE	D_EEP_addr_ae_iris100ire	
A1	27	D_EEP_addr_ae_target	
A2	18	D_EEP_addr_ae_blc_target	
A3	1E	D_EEP_addr_ae_hallgainstr	
A4	C8	D_EEP_addr_ae_halldiftar	
A5	0	D_EEP_addr_ae_bypassaeavr	
A6	20	D_EEP_addr_ae_agcmaptarget	
A7	20	D_EEP_addr_ae_hallmin	
A8	FE	D_EEP_addr_ae_hallmax	
A9	4F	D_EEP_addr_ae_dfp_target	
AA	A	D_EEP_addr_ae_blc_dfp_target	
AB	59	D_EEP_addr_ae_irismin	
AC	FB	D_EEP_addr_ae_irismax	
AD	60	D_EEP_addr_ae_tarpecnt	
AE	36	D_EEP_addr_ae_agcmin	
AF	90	D_EEP_addr_ae_agcmax	
B0	70	D_EEP_addr_awb_b_3100	
B1	2D	D_EEP_addr_awb_r_3100	
B2	48	D_EEP_addr_awb_b_5100	
B3	4A	D_EEP_addr_awb_r_5100	
B4	F1	D_EEP_addr_awb_3100_bmaxclip	
B5	84	D_EEP_addr_awb_5100_rmaxclip	
B6	C8	D_EEP_addr_awb_tracking	

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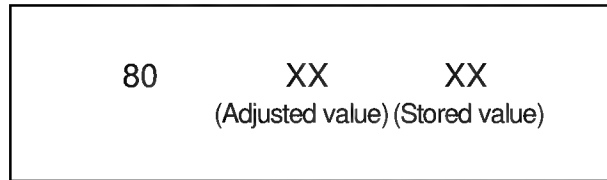
B7	2A	D_EEP_addr_ae_blc_pecnt
B8	30	D_EEP_addr_ae_clipratio
B9	C	D_EEP_addr_ae_clipdecmax
BA	71	D_EEP_addr_awb_hall_outdoor
BB	1	D_EEP_AFCHGPULSE /*af r1zt_AFChgPulse setting method */
BC	EC	D_EEP_addr_awb_out_right_margin
BE	11	D_EEP_addr_awb_br_slop
BE	50	D_EEP_addr_awb_b_start
BF	54	D_EEP_addr_awb_r_start
C0	81	D_EEP_addr_awb_b_gain_pecnt
C1	85	D_EEP_addr_awb_r_gain_pecnt
C2	37	D_EEP_addr_ae_startagc
C3	3A	D_EEP_addr_ae_end_hvcore
C4	34	D_EEP_addr_ae_end_hgain
C5	34	D_EEP_addr_ae_end_vgain
C6	F4	D_EEP_addr_ae_end_slice
C7	3C	D_EEP_addr_ae_csupsuppress
C8	D	D_EEP_addr_wdr_cdsmode2
C9	2C	D_EEP_addr_wdr_hgain
CA	2C	D_EEP_addr_wdr_vgain
CB	D8	D_EEP_addr_wdr_slice
CC	20	D_EEP_addr_wdr_histw
CD	0	D_EEP_addr_wdr_abbr_pm
CE	0	D_EEP_addr_wdr_abbb_pm
CF	A0	D_EEP_addr_wdr_yhi_ref
D0	7F	D_WDR_AEINSEL
D1	A8	D_WDR_AECLIPTH
D2	0	D_WDR_AEL_TH
D3	FF	D_WDR_AEH_TH
D4	75	D_WDR_AEW2VE
D5	28	D_WDR_AEW2VS
D6	B0	D_WDR_AEW2HE
D7	30	D_WDR_AEW2HS
D8	88	D_WDR_AEW1VE
D9	20	D_WDR_AEW1VS
DA	C0	D_WDR_AEW1HE
DB	28	D_WDR_AEW1HS
DC	0	D_WDR_SP_ADJ
DD	0	D_WDR_TESTADDR
DE	0	D_WDR_TESTCONT
DF	88	D_WDR_ALPF_TH3
E0	88	D_WDR_ALPF_TH1
E1	2A	D_WDR_ALPF_WTSFT
E2	99	D_WDR_COLOR127
E3	99	D_WDR_COLOR31
E4	4A	D_WDR_CH_SEL

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E5	F0	D_WDR_BACKSP	
E6	44	D_WDR_LUT_TAB	
E7	E0	D_WDR_LTIC	
E8	C0	D_WDR_LTI_ON	
E9	38	D_WDR_HIST_WT	
EA	1C	D_WDR_LUT_GAIN	
EB	FD	D_WDR_LP_V	
EC	28	D_WDR_SP_V	
ED	9C	D_WDR_LP_H	
EE	56	D_WDR_SP_H	
EF	0	D_WDR_GR_MODE	
F0	70	D_EEP_AFHALL	/*pin hall effect af normal shutter 0x40*/
F1	0	D_EEP_addr_awb_rhuen_5100	
F2	0	D_EEP_addr_awb_rhuep_5100	
F3	A	D_EEP_addr_awb_bhuen_5100	
F4	24	D_EEP_addr_awb_bhuep_5100	
F5	E	D_EEP_addr_awb_left_margin	
F6	1C	D_EEP_addr_awb_right_margin	
F7	95		/*INITIAL*/
F8	1	D_EEP_VCR_SPCNT	/*SP COUNT*/
F9	1	D_EEP_VCR_LPCNT	/*LP COUNT*/
FA	E	D_EEP_IE3_13941	/*ieee1394 id1*/
FB	30	D_EEP_IE3_13942	/*ieee1394 id2*/
FC	35	D_EEP_IE3_13943	/*ieee1394 id3*/
FD	30	D_EEP_IE3_13944	/*ieee1394 id4*/
FE	8	D_EEP_UART_BAUD	/*uart boadrage 88h=9600 else=115200*/
FF	1E		

## 3-2-2 Camera Adjustment

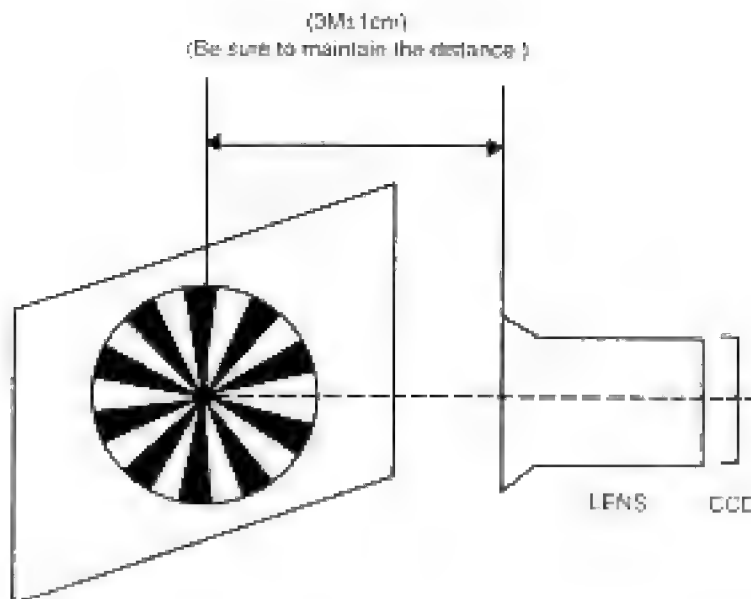
Note : "XX XX" indicate the previous preset value and adjusted value. Press the START/STOP (Confirm) button to store the adjusted value.



### 1. LENS ZOOM TRACK

Caution : For whole zoom range, it shall be in focus. The location of a focus lens is moving depending on the location of zoom lens. During adjusting, micom measures the focus location from a near distance to a long.

- 1) Camera is set to E-E mode.
- 2) Focus chart photo (the last page of manual)
- 3) Ensure that camera is left an about 3 m distance from a focus chart and the focus of lens is placed vertically. Attach a focus chart to white or gray wall of a flat surface.
- 4) Connect a video output terminal to a TV.
- 5) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "C8 XX XX".
- 6) Press the Display button so that OSD shows "C8 XX XX".
- 7) Press the START/STOP (Confirm) button. Never impact on the lens when adjusting zoom and focus lens. There's is a flicker on screen after finishing the adjustment.

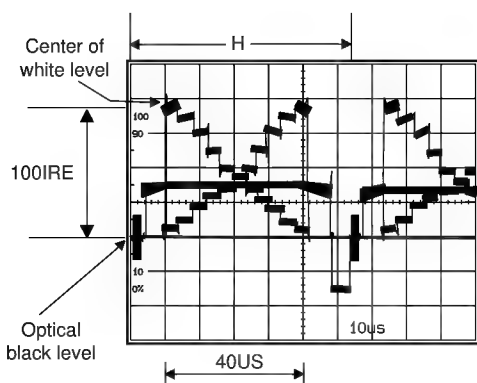


## 2. AUTO HALL

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "C9 XX XX".
- 4) Press the Display button so that OSD shows "C8 XX XX".
- 5) Press the START/STOP (Confirm) button.
- 6) Then micom finds out max. Hall value with an iris opened and min. Hall value with an iris closed. Store max. and min. value of Hall in A7 and A6 respectively.
- 7) There's is a flicker on screen after finishing the adjustment.

## 3. AE TARGET LEVEL

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a wave form monitor and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "CB XX XX".
- 4) Press the DATA SCREEN button so that OSD shows "CB XX XX".
- 5) Press the Display (PRE-CONFIRM) button.
- 6) Press the PLAY (Data Up)/STOP (Data Down) so that the signal level is 90IRE.
- 7) Press the START/STOP (Confirm) button.
- 8) There's is a flicker on screen after finishing the adjustment.

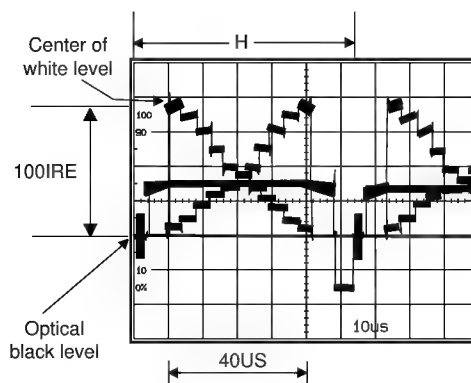


## 4. AUTO GAIN CONTROL

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a wave form monitor and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "CC XX XX".
- 4) Press the DATA SCREEN button so that OSD shows "CC XX XX".
- 5) Press the START/STOP (Confirm) button. Then micom finds out the beginning value of AGC and stores the value in AF.
- 6) There's is a flicker on screen after finishing the adjustment.

## 5. AUTO IRIS LEVEL

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a wave form monitor and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "CD XX XX".
- 4) Press the DATA SCREEN button so that OSD shows "CD XX XX".
- 5) Press the START/STOP (Confirm) button.
- 6) Then micom finds out max. Hall value with an iris opened and min. Hall value with an iris closed. Store max. and min. value of Hall in AB and AC respectively.
- 7) There's is a flicker on screen after finishing the adjustment.



## 6. AUTO WHITE BALANCE (indoor)

- 1) Camera mode & 3100° K/5100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "CE XX XX".
- 4) Press the DATA SCREEN button so that OSD shows "CE XX XX".
- 5) Ensure that camera picks up image 40 $\mu$ s on 3100°K gray scale chart precisely and the illumination is 1500-2000 Lux.
- 6) Press the START/STOP (Confirm) button to ensure that white spot on a vectorscope is moving in the middle of screen.
- 7) There's is a flicker on screen after finishing the adjustment.

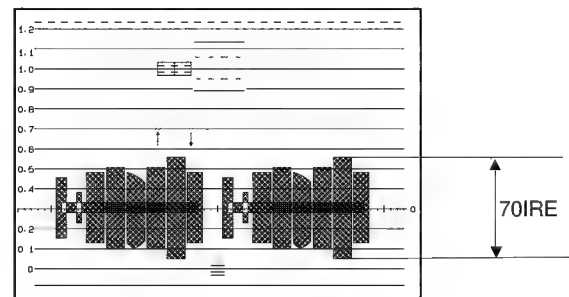
## 7. AUTO WHITE BALANCE (outdoor)

- 1) Camera mode & 3100° K/5100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "CF XX XX".
- 4) Press the DATA SCREEN button so that OSD shows "CF XX XX".
- 5) Ensure that camera picks up image 40 on 5100 gray scale chart (3100 gray scale chart + C16 filter) precisely and the illumination is 1500-2000 Lux.
- 6) Press the START/STOP (Confirm) button to ensure that white spot on a vectorscope is moving in the middle of screen.
- 7) There's is a flicker on screen after finishing the adjustment.

## 8. R-Y POSITIVE GAIN

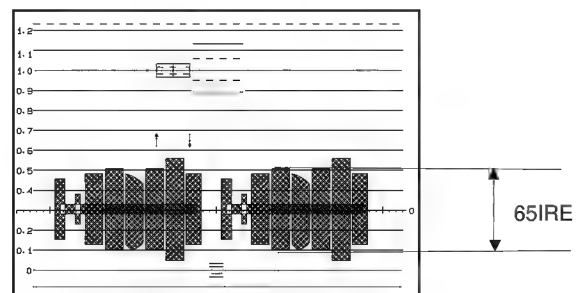
- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "2F XX XX".

- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) so that the red level is 70IRE.
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



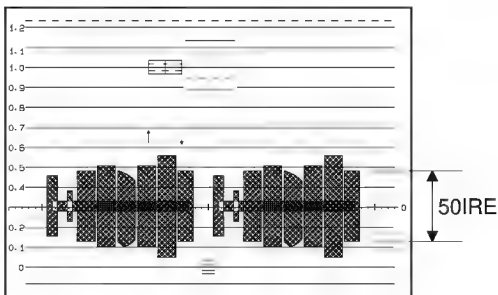
## 9. R-Y NEGATIVE GAIN

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "2E XX XX".
- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) so that the cyan level is 65IRE.
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



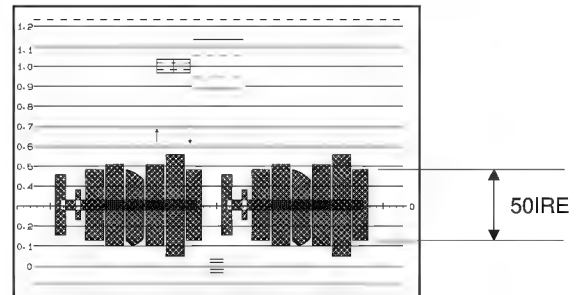
## 10. B-Y POSITIVE GAIN

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "31 XX XX".
- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) so that the blue level is 50IRE.
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



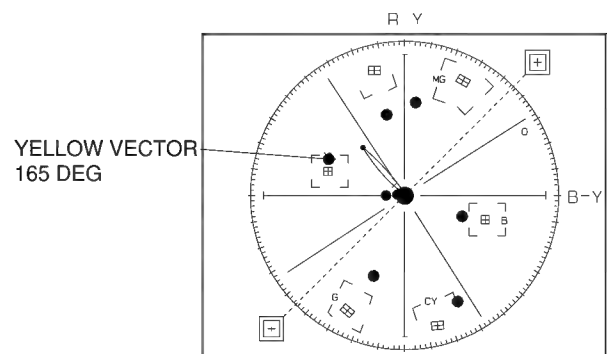
## 11. B-Y NEGATIVE GAIN

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "30 XX XX".
- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) so that the yellow level is 50IRE.
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



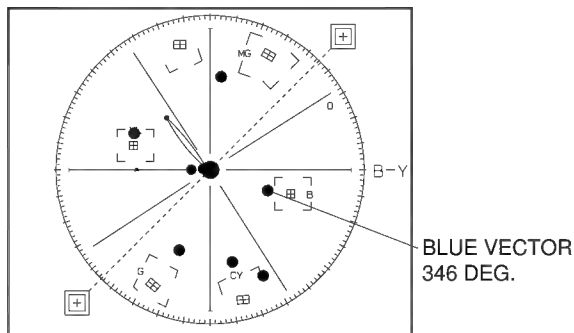
## 12. R-Y POSITIVE GAIN

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "31 XX XX".
- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) so that the yellow vectors is 165° .
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



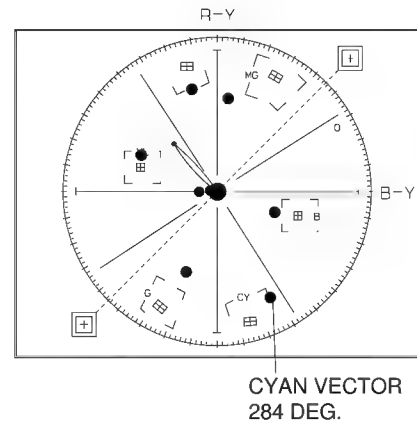
### 13. R-Y NEGATIVE HUE

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "2A XX XX".
- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) button so that the blue vector is 346°.
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



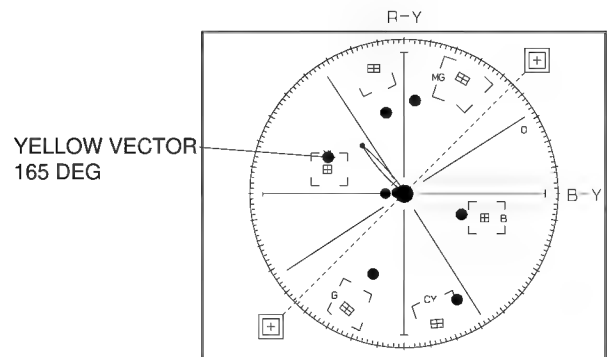
### 14. B-Y POSITIVE HUE

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "2D XX XX".
- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) button so that the cyan vector is 284°.
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



### 15. B-Y NEGATIVE HUE

- 1) Camera mode & 3100° K gray scale chart
- 2) Connect a video output terminal to a vectorscope and a TV.
- 3) Press the FF(Mode Up)/REW(Mode Down) button so that OSD shows "2C XX XX".
- 4) Ensure that camera picks up image on 3100° K color bar chart precisely and the illumination is 1500-2000 Lux.
- 5) Press the PLAY (Data Up)/STOP (Data Down) button so that the red vector is 104°.
- 6) Press the START/STOP (Confirm) button to store data.
- 7) There's is a flicker on screen after finishing the adjustment.



### 3-3. LCD Adjustment

Notes: For LCD adjustment, use the buttons on the video camera and the remote control.

After each adjustment step is completed, OSD shows "OK".

EEPROM(ICL202) stores confirmed adjustment value of each adjustment step.

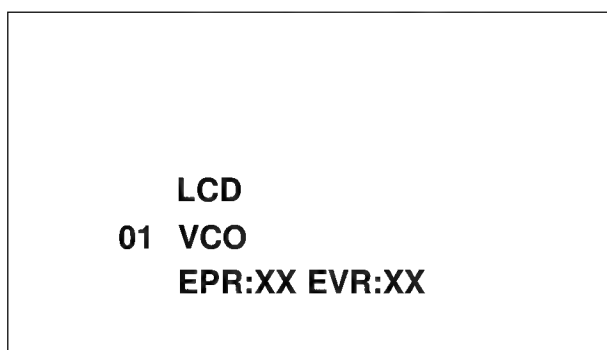
After finishing the adjustment, turn power off.

#### 1. How to get into the LCD adjust mode.

##### STEP 1

1. Connect the power source (battery/DC cable).
2. Set the "CAMERA/VCR" switch to "CAMERA" position.
3. Camera screen and OSD appears.
4. Open housing of the video camera and remove tape.
5. Press the Bright button to make the bright display appear in the center.

Monitor screen



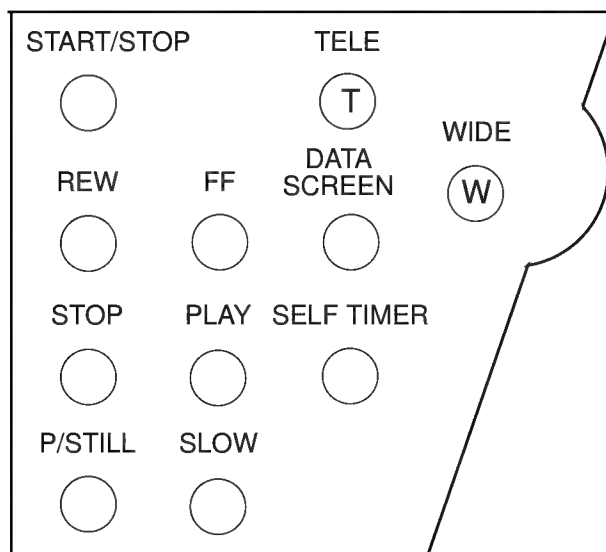
When monitor OSD shows as above screen, LCD adjustment mode has been activated successfully.

Note : "XX" indicates variable values.

- 6) Press the Color button to make the color display appear in the center. Then press the Color button again to make the tint display appear in the center.

##### STEP 2

- 1) Press and hold the "FF" button and "SELF TIMER" button on the video camera at the same time for more than 5 seconds.
- 2) Press the DATA SCREEN button to make color bar appear.



Remote Control Button Location

#### 2. Functions of each button on the Remote Control

Button	Description
START/STOP (Confirm)	Stores changed value in the adjustment mode.
FF (Mode Up)	Shift adjustment address to left.
REW (Mode Down)	Shift adjustment address to right.
PLAY (Data Up)	Up value.
STOP (Data Down)	Down value.

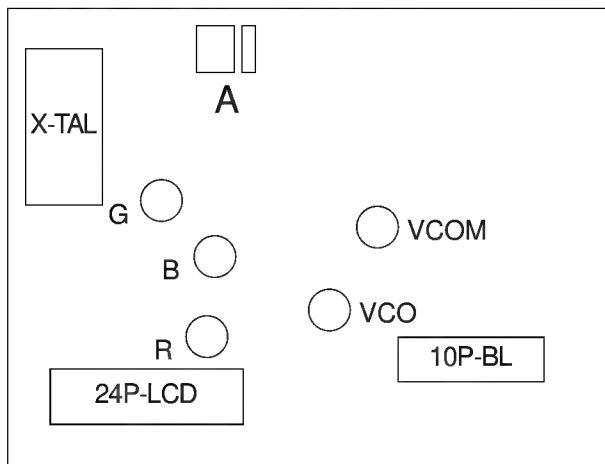
Note: In service adjustment mode, button names are different from those in customer function control mode.

## 3. Adjustment Mode Table

Address	Mode	PAL	NTSC	Remark
01	VCO	90	90	PLL ->Adjust
02	VCOM	39	39	COMMON ->Adjust
03	BRIGHT	60	60	BRIGHT ->Adjust
04	R-SUB	64	64	R-SUB ->Adjust
05	B-SUB	6E	6E	B-SUB ->Adjust
06	COLOR	79	8D	COLOR ->Adjust
07	TINT	00	A0	TINT ->Adjust NTSC only
08	CONTRAST	90	90	CONTRAST ->Fix initial value
09	GAMMA	85	85	GAMMA ->Fix initial value
0A	LED CONTROL	FF	FF	LED control when powered
0B	BRIGHT MIN	01	01	Bright variation of MIN direction for USER
0C	BRIGHT MAX	02	02	Bright variation of MAX direction for USER
0D	COLOR MIN	05	05	Color variation of MIN direction for USER
0E	COLOR MAX	06	06	Color variation of MAX direction for USER
0F	TINT MIN	00	06	Tint variation of MIN direction for USER
10	TINT MAX	00	04	Tint variation of MAX direction for USER
11	FE 2	19	19	CHECK1 ->Fix initial value
11	FE 2	20	20	CHECK2 ->Fix initial value

\*The adjustment sequence is VCO->VCOM->BRIGHT->R-SUB->B-SUB->COLOR->TINT.

## 4. Location of Adjustment TP



## 1) VCO

- a) TP-VCO & EVR
- b) Connect an voltmeter to TP-VCO.
- c) Adjust the EVR so that DC voltage is DC  $3.5 \pm 0.05$  V.

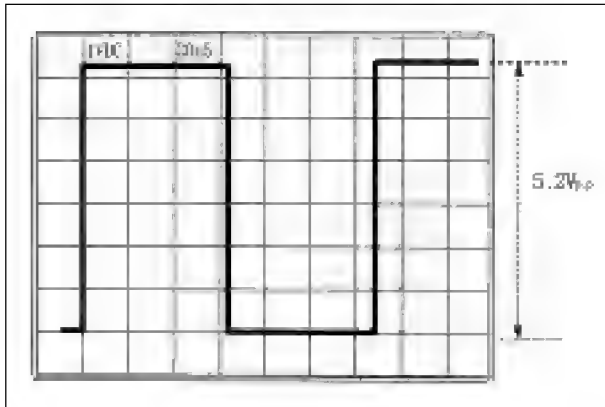
## 1) VCOM

- a) TP-VCOM & EVR
- b) Connect an voltmeter to TP-VCOM.
- c) Adjust the EVR so that DC voltage is DC  $1.1 \pm 0.05$  V.

Note: In LCD adjustment mode, when shorting "A" of PCB to GND and pressing the START/STOP button, EEPROM stores confirmed adjustment value.

## 3) Brightness

- TP-VCOM & EVR
- Connect an oscilloscope probe to TP-VCOM.
- Adjust the EVR so that bright level is  $5.2 \pm 0.1$  Vp-p.

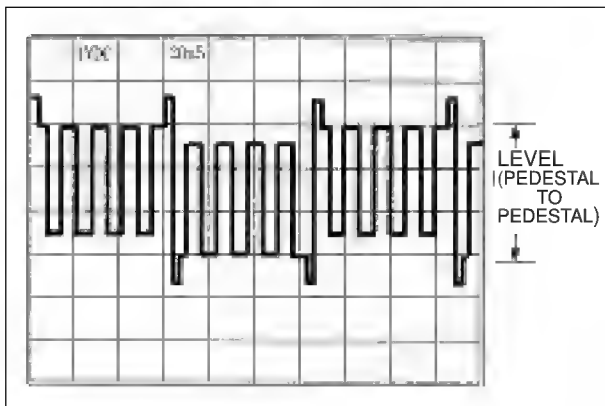


## 4) R-Sub Brightness

- TP-R & EVR
- Connect an oscilloscope probe to TP-R.
- Adjust the EVR so that bright level is 3.4 Vp-p.

## 5) B-Sub Brightness

- TP-B & EVR
- Connect an oscilloscope probe to TP-B.
- Adjust the EVR so that bright level is 3.3 Vp-p.



## 6) Color

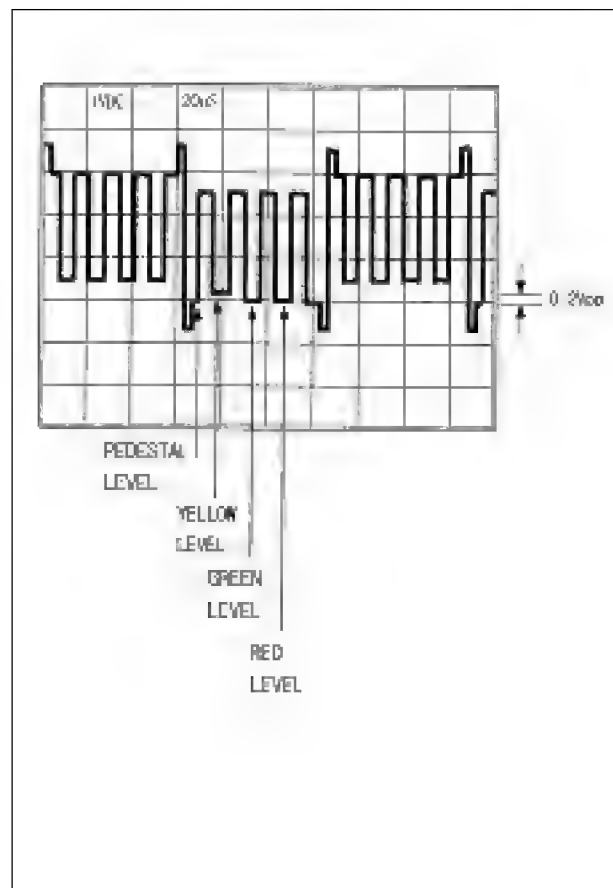
- TP-B & EVR
- Connect an oscilloscope probe to TP-B.
- Adjust the EVR so that yellow level is 0.2 Vp-p higher than pedestal level.

## 7) Tint (NTSC only)

- TP-B & EVR
- Connect an oscilloscope probe to TP-B.
- Adjust the EVR so that green level is equal to red level.

## 8) C-COM

- TP-B & EVR
- Connect an oscilloscope probe to TP-B.
- Adjust the EVR so that red carrier level is minimized.



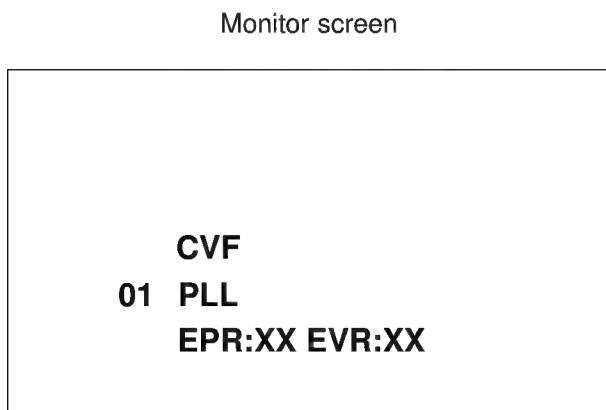
### 3-4. CVF Adjustment

Notes : For CVF adjustment, use the buttons on the video camera and the remote control.  
 After each adjustment step is completed, OSD shows "OK".  
 EEPROM(ICV02) stores confirmed adjustment value of each adjustment step.  
 After finishing the adjustment, turn power off.

#### 1. How to get into the LCD adjust mode.

##### STEP 1

- 1) Connect the power source (battery/DC cable).
- 2) Set the "CAMERA/VCR" switch to "CAMERA" position.
- 3) Camera screen and OSD appears.
- 4) Open housing of the video camera and remove tape.

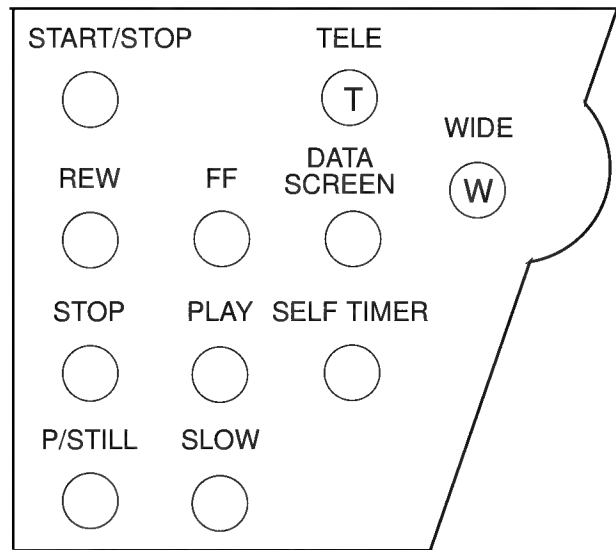


When monitor OSD shows as above screen, CVF adjustment mode has been activated successfully.

Note : "XX" indicates variable values.

##### STEP 2

- 1) Press and hold the "REW" button and "SELF TIMER" button on the video camera at the same time for more than 5 seconds.
- 2) Press the DATA SCREEN button to make color bar appear.



#### 2. Functions of each button on the Remote Control

Button	Description
START/STOP (Confirm)	Stores changed value in the adjustment mode.
FF (Mode Up)	Shift adjustment address to left.
REW (Mode Down)	Shift adjustment address to right.
PLAY (Data Up)	Up value.
STOP (Data Down)	Down value.

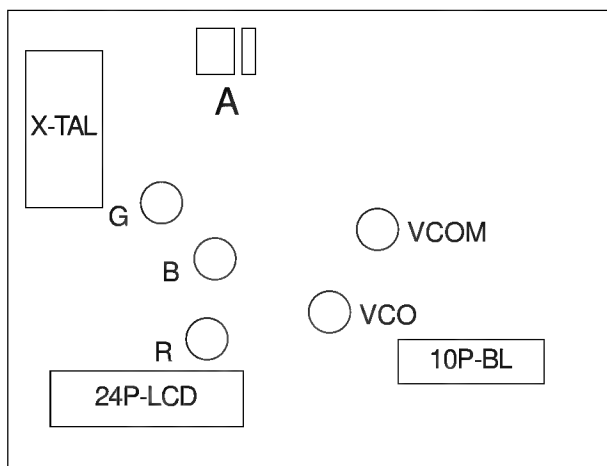
Note: In service adjustment mode, button names are different from those in customer function control mode.

## 3. Adjustment Mode Table

Address	Mode	PAL	NTSC	Remark
01	PLL	70	70	PLL ->Adjust
02	BRIGHT	9B	9B	BRIGHT ->Adjust
03	R-SUB	7C	7C	R-SUB ->Adjust
04	B-SUB	87	87	B-SUB ->Adjust
05	COLOR	6A	6A	COLOR ->Adjust
06	TINT	79	79	TINT ->Adjust
07	CONTRAST	77	77	CONTRAST ->Fix initial value
08	GAMMA1	6D	6D	GAMMA1 ->Fix initial value
09	GAMMA2	B1	B1	GAMMA2 ->Fix initial value
0A	MODE1	0E	0E	PAL/NTSC ->Fix
0B	MODE2	00	00	NORMAL/TEST ->Fix
0C	MODE3	15	15	HD ->Fix

\*The adjustment sequence is PLL->BRIGHT->R-SUB->B-SUB->COLOR->TINT.

## 4. TP Location



Note: In CVF adjustment mode, when shorting "A" of PCB to GND and pressing the START/STOP button, EEPROM stores confirmed adjustment value. After finishing the adjustment, you have to do battery reset.

- 1) PLL
  - a) TP-P & EVR
  - b) Connect an voltmeter to TP-P.
  - c) Adjust the EVR so that DC voltage is DC  $1.8 \pm 0.05$  Vp-p.
- 2) Brightness
  - a) TP-G & EVR
  - b) Connect an oscilloscope probe to TP-G.
  - c) Adjust the EVR so that bright level is  $7.0$  Vp-p  $\pm 0.1$  Vp-p.

- 3) R-Sub Brightness
  - a) TP-R & EVR
  - b) Connect an oscilloscope probe to TP-R.
  - c) Adjust the EVR so that bright level is  $7.0$  Vp-p (PAL =  $7.2$  Vp-p).

- 4) B-Sub Brightness
  - a) TP-B & EVR
  - b) Connect an oscilloscope probe to TP-B.
  - c) Adjust the EVR so that bright level is  $7.0$  Vp-p.

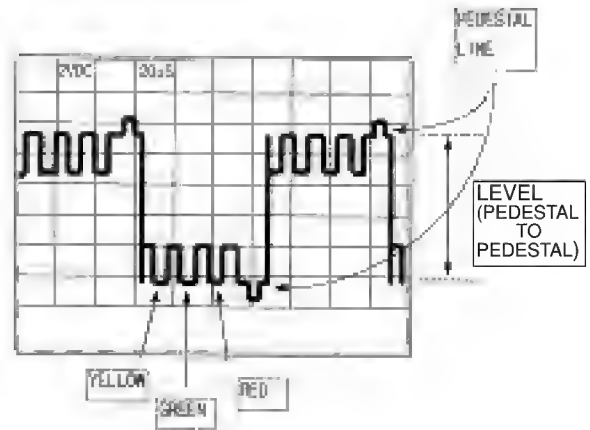
3) Color

- a) TP-B & EVR
- b) Connect an oscilloscope probe to TP-B.
- c) Adjust the EVR so that yellow level is 0.8 V<sub>p-p</sub> higher than pedestal level.

4) Tint

- a) TP-B & EVR
- b) Connect an oscilloscope probe to TP-B.
- c) Adjust the EVR so that green level is equal to red level.

(PAL Mode : Adjust so that red carrier is focused on.)



## 2-1-2. Ass'y Left Removal

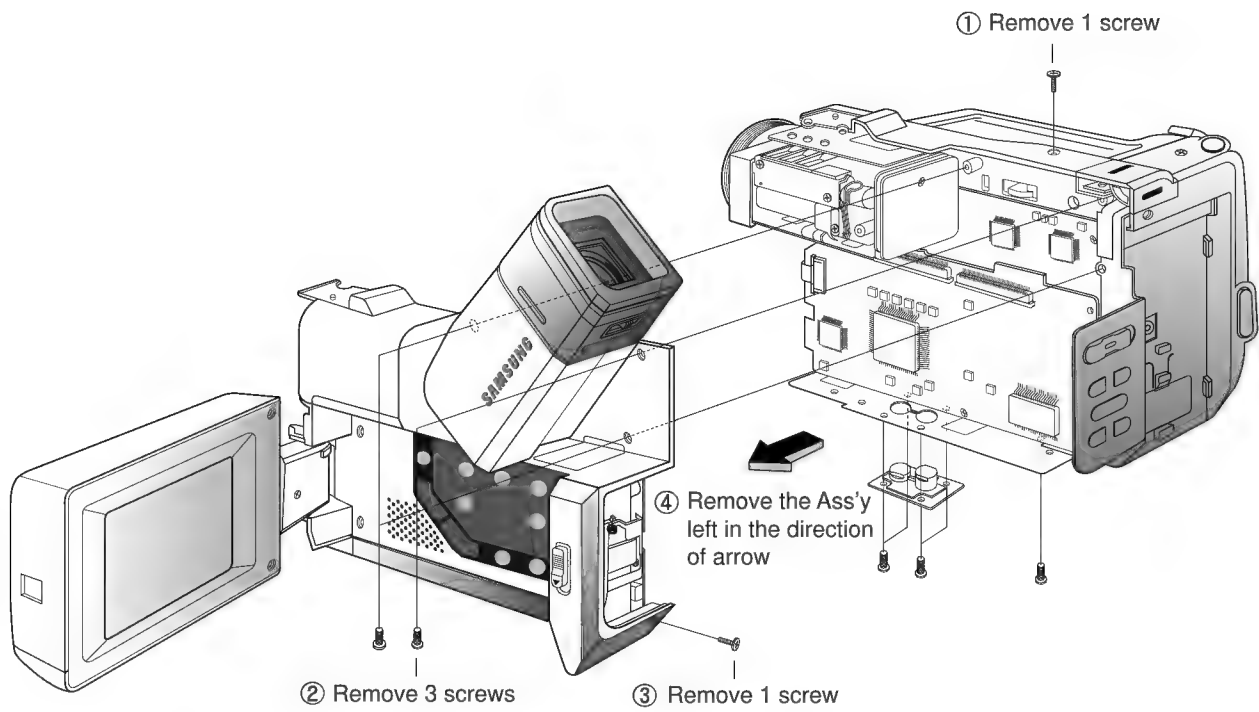


Fig. 2-2 Ass'y Left Removal

### 2-1-3. Ass'y EVF Removal

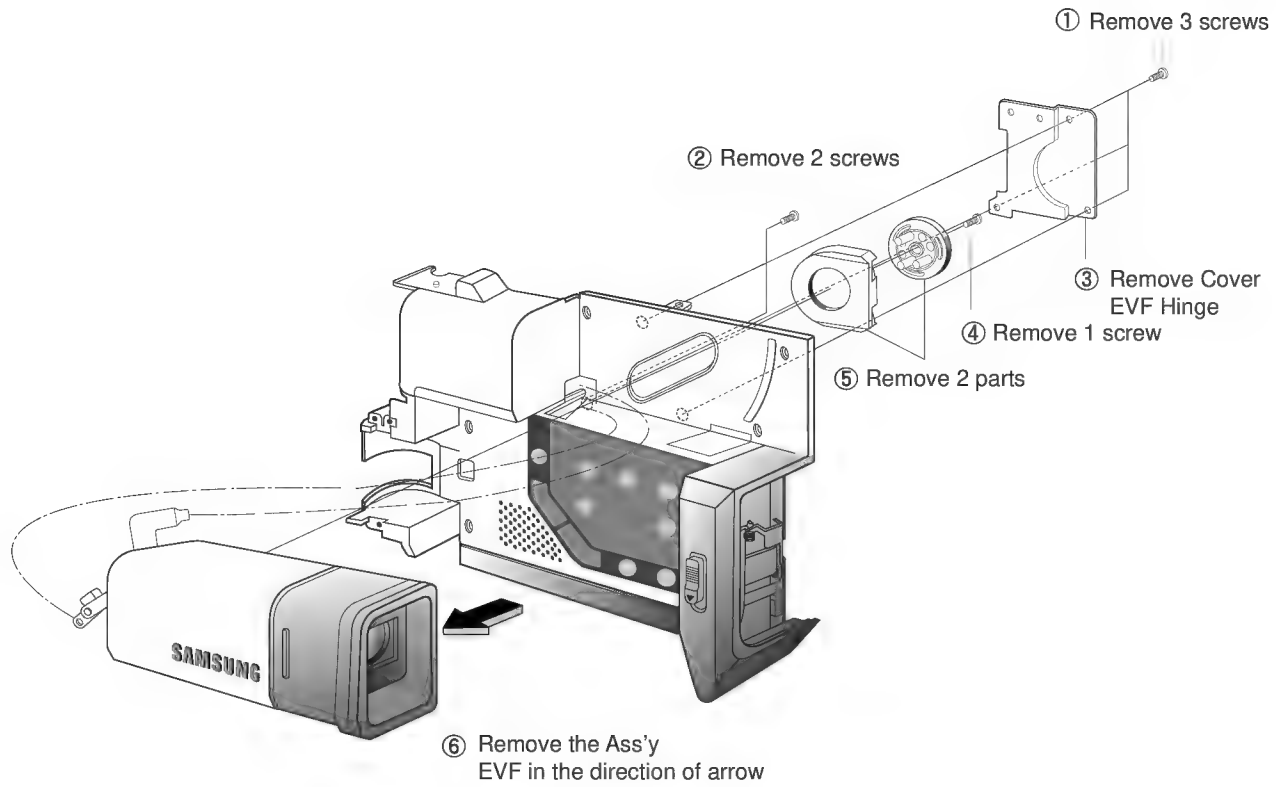


Fig. 2-3 Ass'y EVF Removal

## 2-1-4. Ass'y LCD Removal

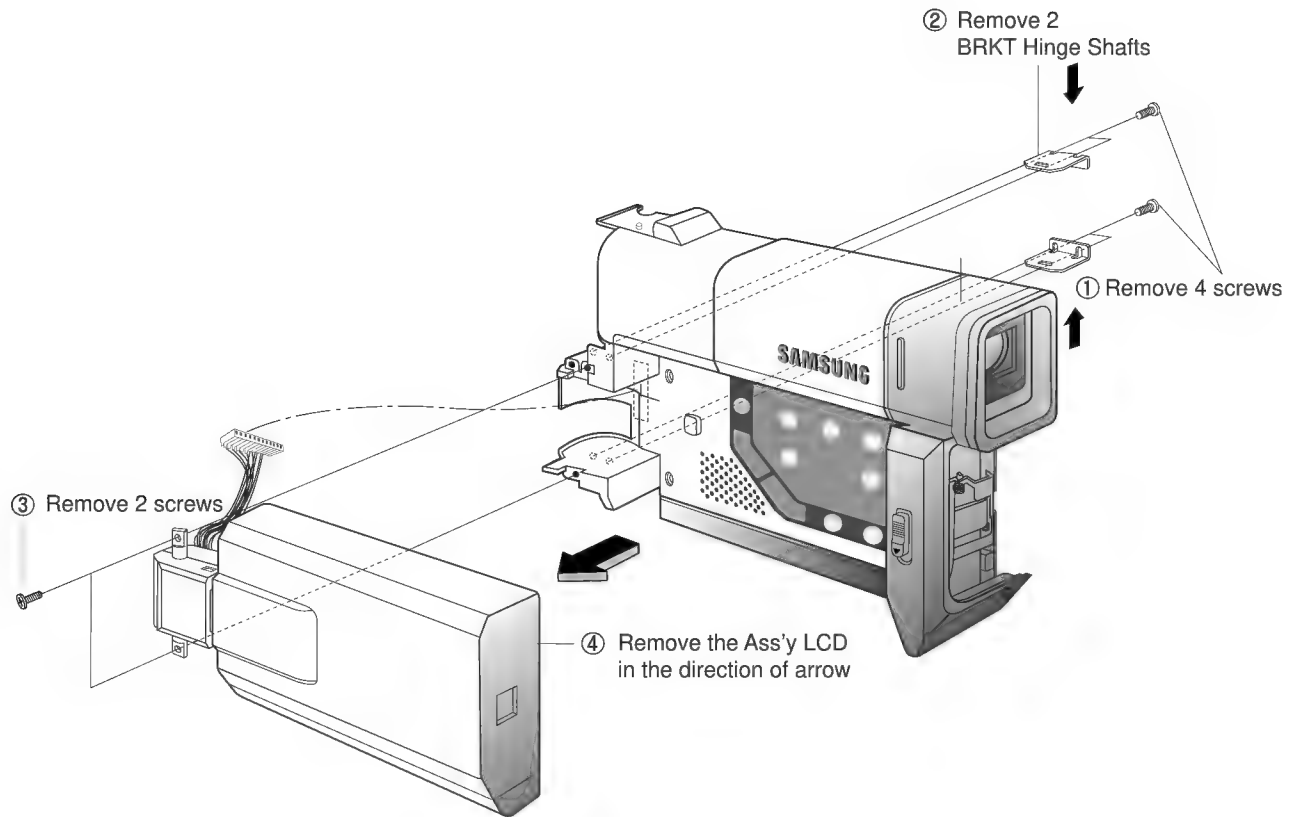


Fig. 2-4 Ass'y LCD Removal

## 2-1-5. Ass'y Right Removal

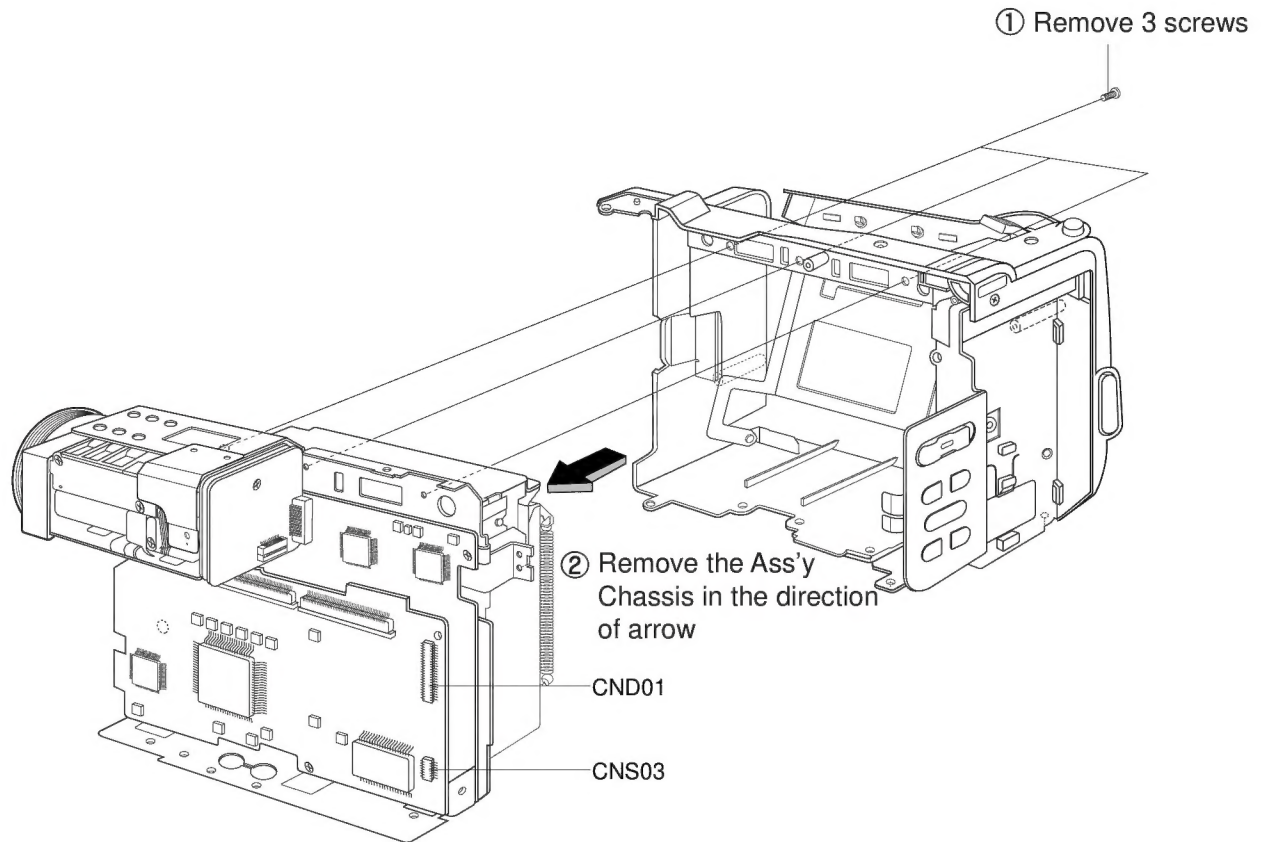


Fig. 2-5 Ass'y Right Removal

## 2-1-6. Ass'y Rear Removal

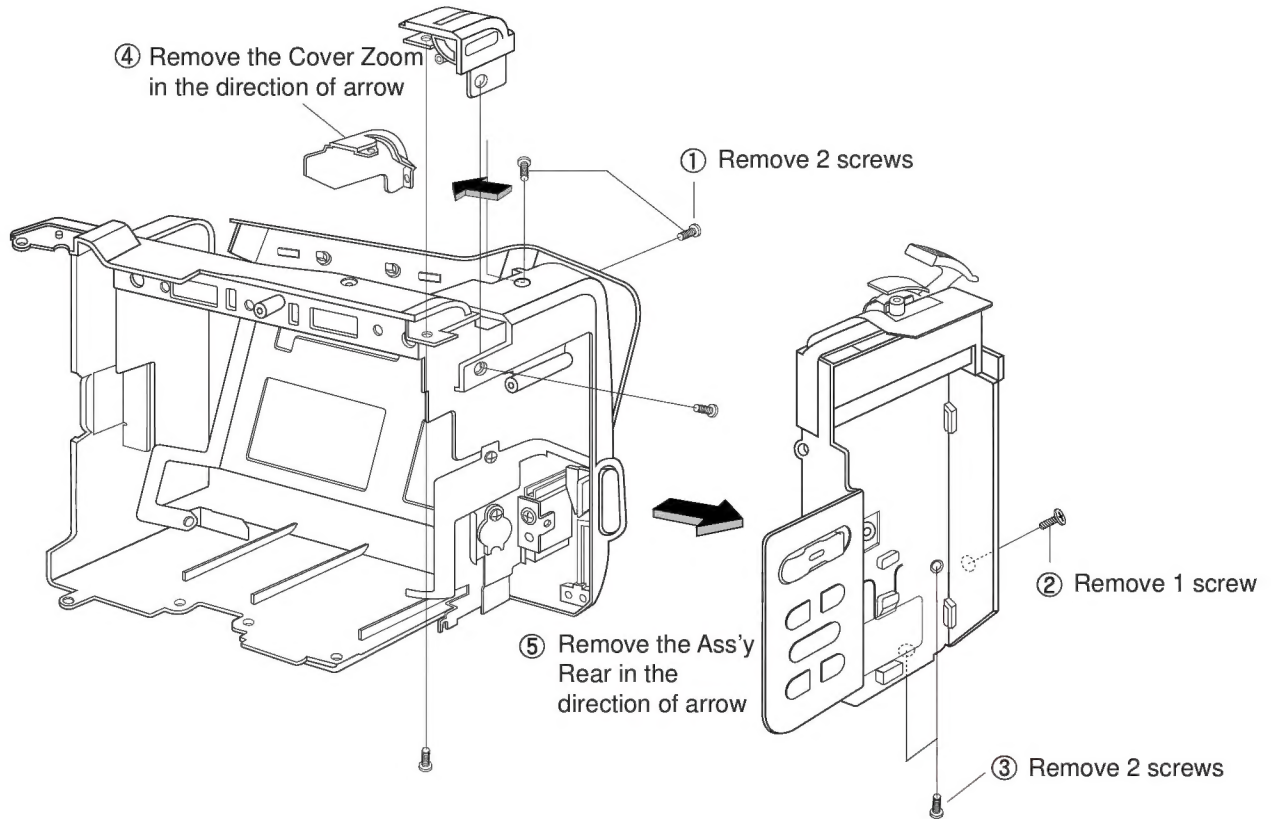


Fig. 2-6 Ass'y Rear Removal

## 2-2. Circuit Boards Location

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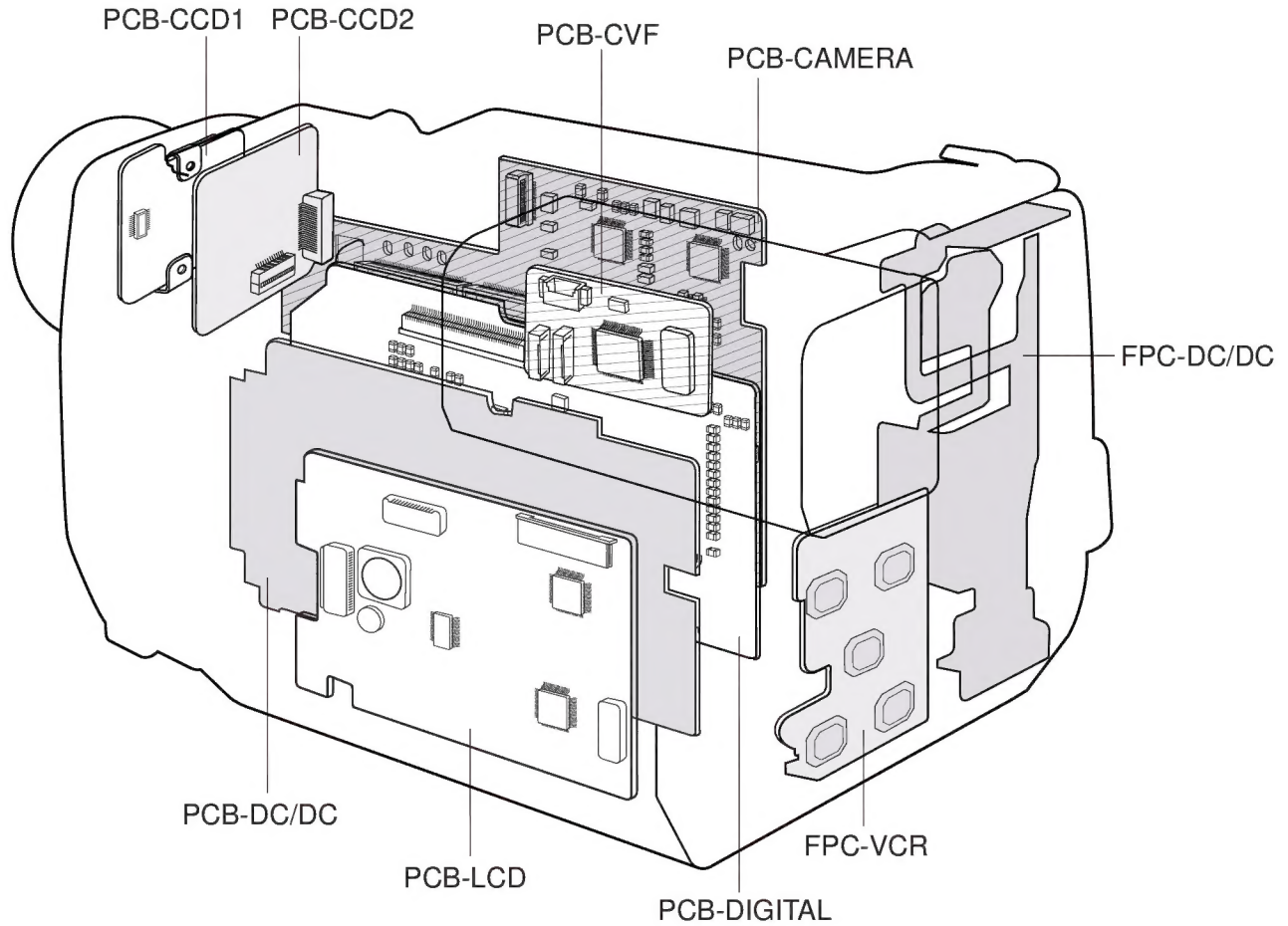


Fig. Circuit Boards Location

## 2-3. Connector Diagrams

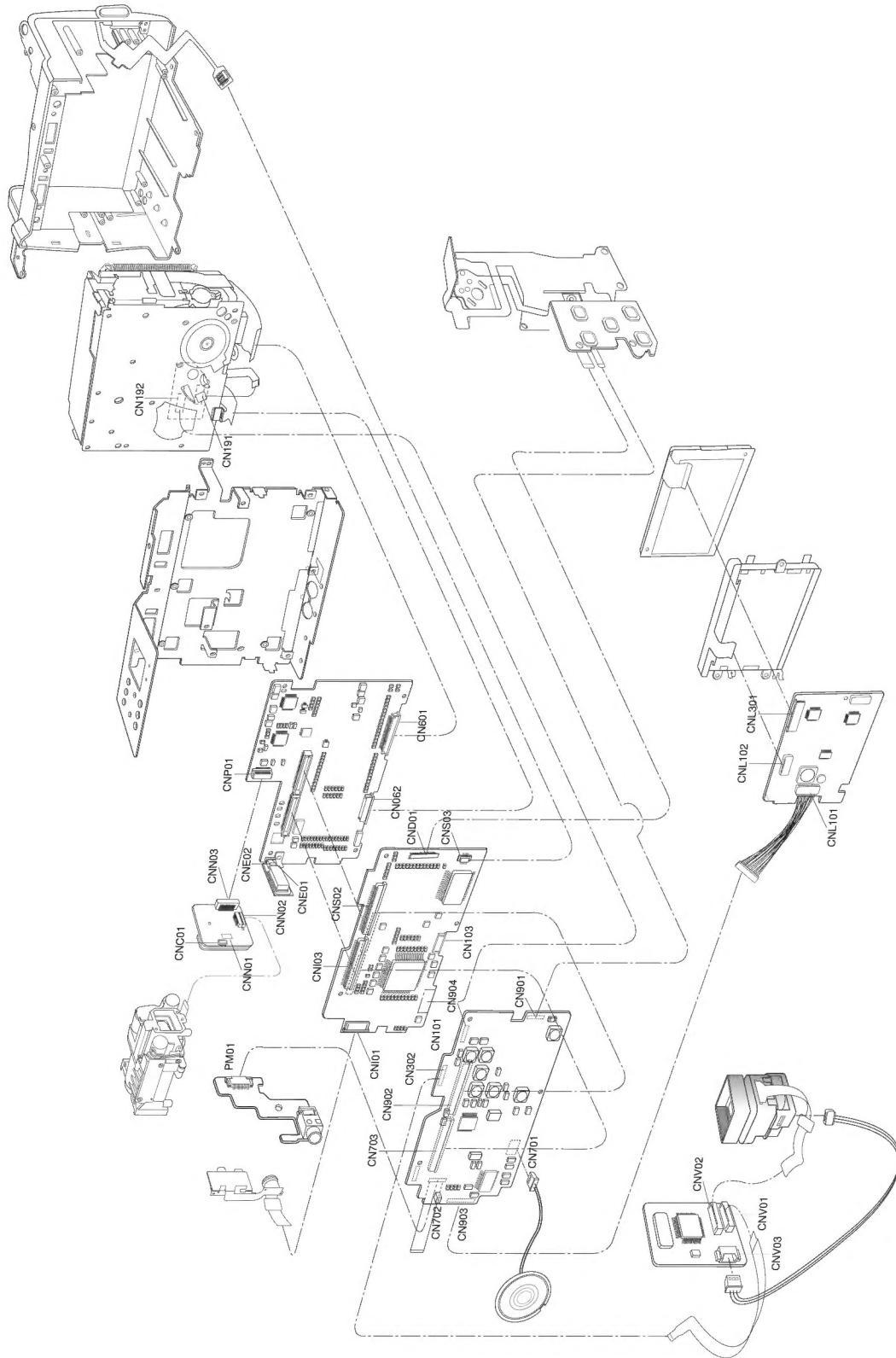


Fig. Connector Diagrams