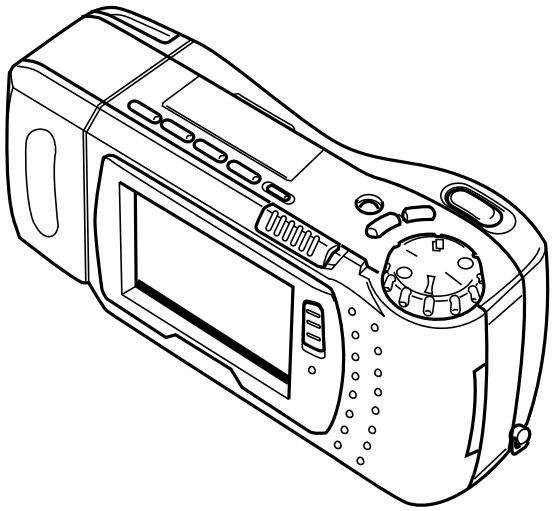
SERVICE MANUAL & PARTS LIST (without price)

QV-700
(KX-772)

JAN. 1998



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CASIO®

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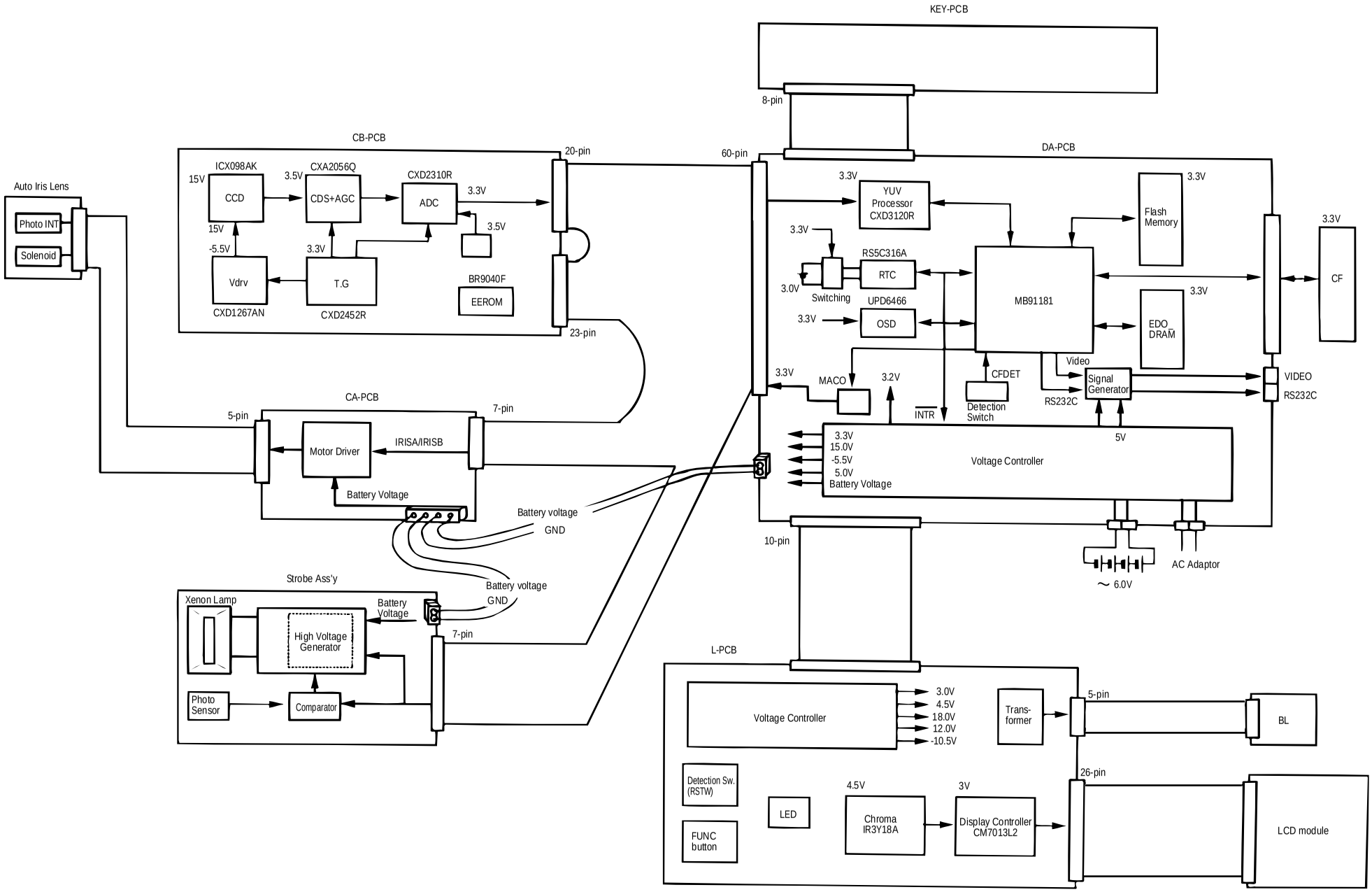
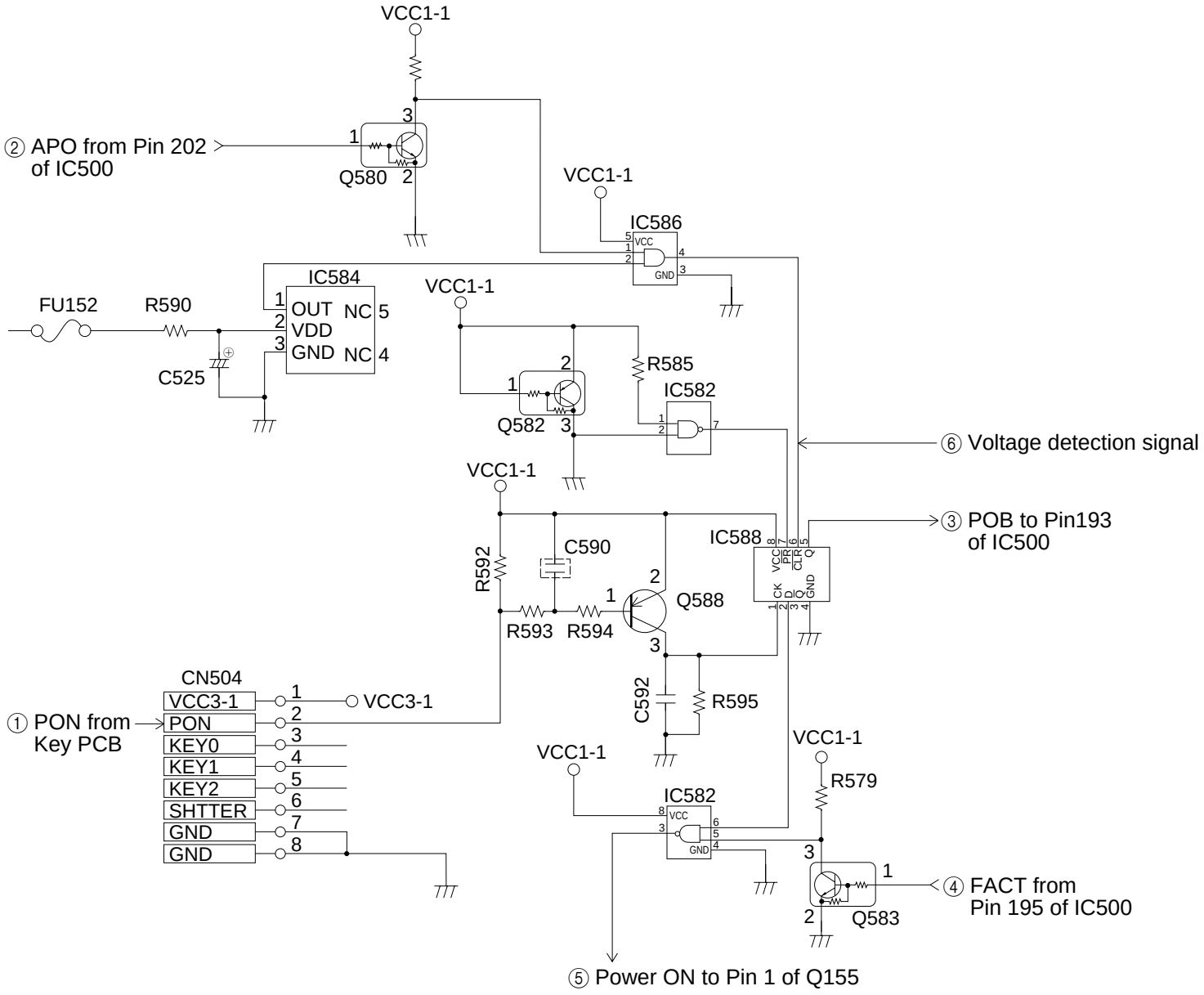
SPECIFICATIONS

Item	Specification
Recording System	Digital (JPEG base)
Signal System	NTSC
Recording Medium	Memory card (2 MB card included)
Memory Capacity (2MB card)	FINE; 14 images (Approx. 133 KB compressed) NORMAL; 26 images (Approx. 70 KB compressed) ECONOMY; 47 images (Approx. 38 KB compressed)
Image Deletion	Single image; all images in a folder, all images in memory (with image protection)
Imaging Element	1/4-inch CCD (350,000 pixels)
Lens	Fixed focal point with macro position; F2, f = 3.94 mm
Focus Range	NORMAL: 70 cm to ∞ MACRO: 14 cm to 16 cm (from surface of protective lens)
Light Metering	TTL center priority by CCD
Exposure Metering	Program AE
Exposure Range	EV +5 to 18
Exposure Correction	–2 EV to +2 EV
Shutter	CCD shutter
Shutter Speed	1/8 to 1/4000 second
White Balance	Automatic
Self-timer	10 seconds, 2 seconds
Flash Modes	Auto Flash, Flash On, Flash Off
Resolution Modes	FINE, NORMAL, ECONOMY
Monitor	2.5” TFT, low-glare color LCD (84,480 pixels)
Computer output image	480 x 640 pixels
Input/Output Terminals	DIGITAL IN/OUT, VIDEO OUT, AC adaptor connector, memory card connector
Clock	January 1, 1997 00:00:00 to December 31, 2049 11:59:59 (Auto calendar)
Power Supply	Four batteries (AA-size alkaline or lithium batteries) AC adaptor (AD-C620)
Battery Life	Continuous Playback: Alkaline Batteries (LR6); Approx. 160 minutes Lithium Batteries (FR6); Approx. 270 minutes Continuous Recording: Alkaline Batteries (LR6); Approx. 600 shots Lithium Batteries (FR6); Approx. 1,200 shots **Note:** The above values are obtained based on Panasonic’s alkaline batteries and Fujifilm’s lithium batteries. For your reference, the values when the camera is operated with Duracell’s alkaline batteries are shown below. Auto Play: Approximately 80 minutes Continuous Recording: Approximately 170 images
Dimensions	147(W) × 69(H) × 50(D) mm/5.8”(W) × 2.7”(H) × 2.0”(D)
Weight	Approximately 290 g/10.2 oz (excluding batteries)
Accessories	Memory card, wrist strap, soft case, special video cable, Alkaline batteries (AA-size × 4)

WIRING AND BLOCK DIAGRAM



POWER SUPPLY CIRCUIT OPERATION



	Signal	Operation
1	PON	Power on/off signal (pulse) from Key PCB
2	APO	Auto power off signal (pulse) from pin 202 of IC500
3	POB	Power on/off recognition signal to pin 193 of IC500 ON: H (VCC3) OFF: L (GND)
4	FACT	Forced power on signal from pin 195 of IC500 Forced ON: H (VCC3) OFF: L (GND) ex. While writing to flash memory
5	Power On	Power on/off signal to pin 1 of Q155 ON: H (VCC1) OFF: L (GND)
6	Voltage detection	Normal: H Low voltage: L

ADJUSTMENT

1. Unit Adjustment

Contents of the adjustment

(1) Color parameters loading
(2) Scratch compensation
(3) Flash adjustment
(4) Flash function check
(5) Current consumption check
(6) Clock reset
(7) Other test modes

Necessary equipments

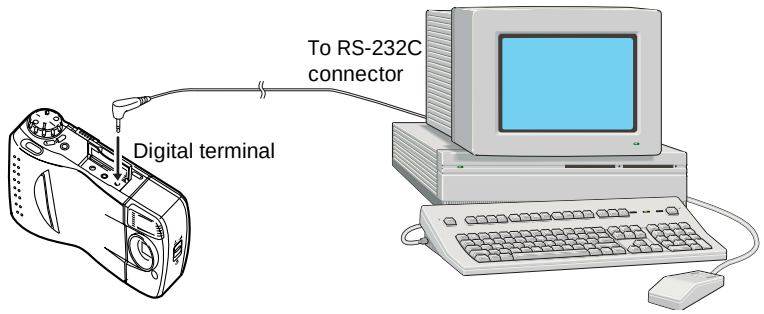
(1) IBM PC/AT compatible computer
(2) Computer link cable
(3) Digital oscilloscope
(4) Stabilized power supply
(5) Ammeter

1-1. Color parameters loading

Perform the following procedures when you replaced Camera Unit.

(1) Set the QV-700 in “PLAY” mode.

(2) Connect the camera and a computer with a link cable.



(3) Execute the following program on MS-DOS system.

PON772.EXE (for COM port 1)

(4) Loading is done successfully when computer monitor shows a message stating that loading is completed.

When the loading is completed normally

```
**********************************
*        Parameter Installer     *
*            for KX-772          *
*             Ver 2.10           *
**********************************
Initializing QV-700 unit. OK.

Setting parameter on QV700. Finished.
```

When the loading is failed (example)

```
Initializing QV700 unit.
***          Time Out Error          ***
```

When the loading is failed, check the connection and settings.

Note: After the loading, also perform the following Scratch compensation and Flash adjustment.

1-2. Scratch compensation

"Scratch" is a black dot which appears dimly on a white screen. Three scratches are allowable on 350,000 pxels screen. Perform this adjustment after loading color parameters.

(1) Set the QV-700 in "REC" mode.

(2) Set the dial on "".

(3) While pressing down the SHUTTER and DEL buttons, turn the power on.
LCD screen indicates "TEST MODE".

(4) While TEST MODE is indicated on the LCD, select the dial on .

Press "MENU" and "/" buttons simultaneously.
LCD indicates;

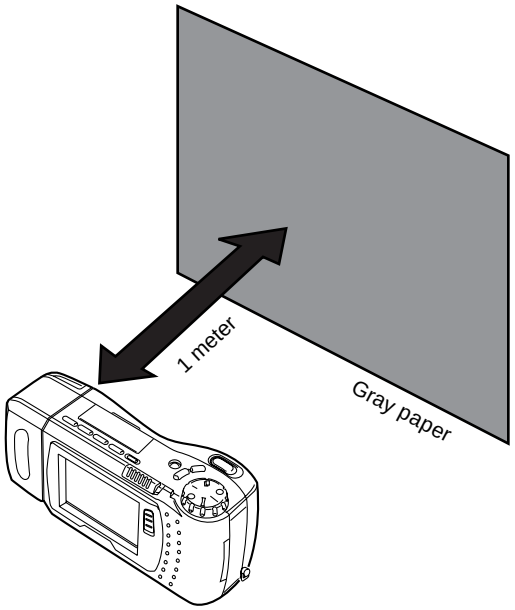
CLOCK RESET
STROBE ADJUST
DEFECT CORRECT
BATTERY CHECK

(5) Cover QV-700 lens so that the light does not go in the camera.

(6) Using "+" or "–" buttons, select "DEFECT CORRECT" and press the SHUTTER button to execute the program.

(7) Make sure that the small red square mark on LCD turns in blue.

(8) Turn the POWER switch off.
As the compensation data is written in the EEPROM by the POWER switch operation, do not forget to turn it off using the switch.



1-3.Flash adjustment

Perform this adjustment when you replaced the flash unit or after color parameter loading.
Preparation and condition;

- Adjustments previously described should be completed.
- Distance between flash cover and gray paper should be one meter.
- The adjustment must be done in a dark room.
- Use following gray paper for the testing.
  Notes: •Use lighter color surface of the paper.
  • Gray paper should be larger than the shooting area.

Code No.	Name	Specification
1904 5411	Superior Seamless Paper	No. 22 (1.75 x 2.7 m)
1904 5412	Superior Seamless Paper	No. 22 (2.72 x 11 m)

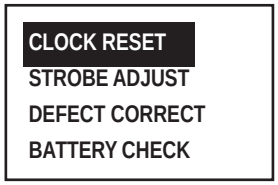
Though these papers are available from Casio, large camera stores handle them.

(1) Set the QV-700 in “REC” mode.

(2) Execute the test program.

- Set the dial on “”.
- While holding down the “SHUTTER” and “DELETE” buttons, turn the POWER on.
- While TEST MODE is indicated on the LCD, select the dial on .

Press “MENU” and “/” buttons simultaneously.
LCD indicates;



(4) Use “+” or “–” buttons to select “STROBE ADJUST” and press the SHUTTER button.

(3) Shot a picture of the test paper.
(Flash indicator should be red before shooting.)

(5) Make sure that the flash icon turns from red to blue.
(If it does not turn into blue, IC531 might be faulty.)

(6) Turn the POWER switch off.
As the adjustment data is written in the EEPROM by the POWER switch operation, do not forget to turn it off using the switch.

1-4.Flash check

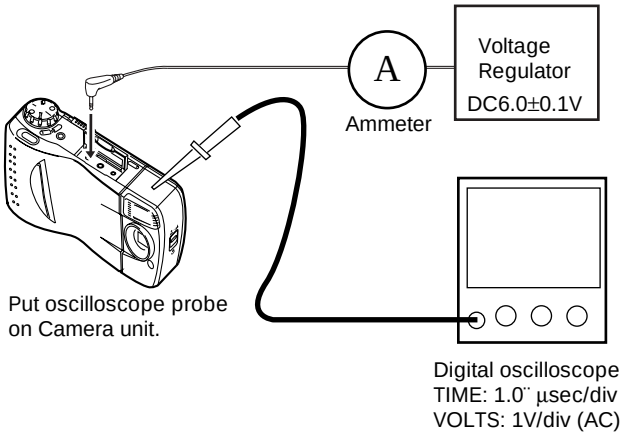
This test is to make sure that the flash circuit is not affected by undesirable electric noise. Perform this test whenever you changed wirings of the camera unit.

Conditions;

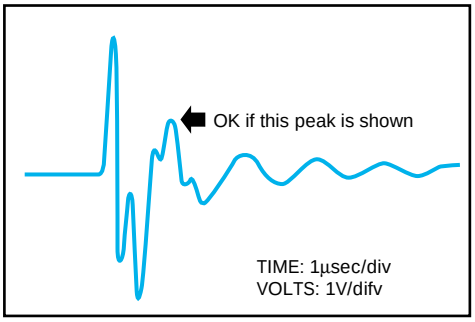
- Perform after the flash adjustment
- Use “/” button to select Flash On.
- Apply 6.0 ± 0.1 [V] voltage on DC IN jack.

(1) Set the QV-700 in “REC” mode and press the shutter.

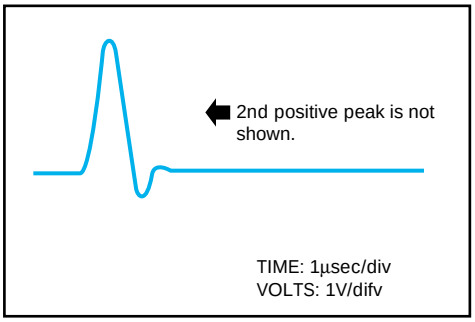
(2) Using a digital oscilloscope, monitor flash trigger pulse.



Correct waveform



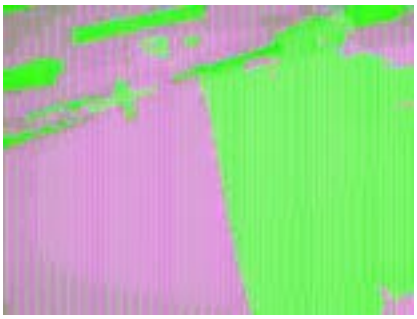
NG waveform



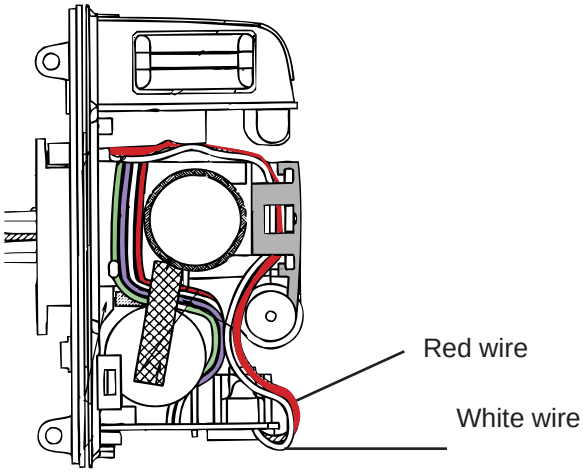
(3) Set the QV-700 on “PLAY” mode and make sure that the picture taken is not too dark or too light.

(4) After the shot, flash is charged automatically. Observing the ammeter, make sure that the charging current is less than 1.2 [A].

If the following pictures are taken, it may be caused by faulty wirings.



To solve this problem, install the wires as shown below.



1-5.Current consumption

(1) Set the QV-700 in “REC” mode. After the flash circuit is fully charged, make sure that the current consumption is less than 550 [mA] (for example, at PLAY mode, current consumption is 380 [mA] when the flash is fully charged.

(2) Reduce the power supply voltage to 3.8 [V] and make sure that the low battery warning indicator is shown.

1-6.Clock reset

Perform the following procedures when you replaced PCB K772-DA.

(1) Set the QV-700 in “REC” mode.

(2) Execute the test program.

- Set the dial on “”.
- While holding down the “SHUTTER” and “DELETE” buttons, turn the POWER on.
- While TEST MODE is indicated on the LCD, select the dial on .

  Press “MENU” and “” buttons simultaneously.

LCD indicates;

CLOCK RESET
STROBE ADJUST
DEFECT CORRECT
BATTERY CHECK

(3) Using “+” or “–” buttons, select “CLOCK RESET” and press the SHUTTER button to execute the program.

1-7.Other test modes

(1) Set the QV-700 in “REC” mode.

(2) Execute the test program.

- While holding down the “SHUTTER” and “DELETE” buttons, turn the POWER on.
- While TEST MODE is indicated on the LCD, press “MENU” and “ / ” buttons simultaneously.

LCD indicates;

BLACK
COLOR BAR
APO OFF

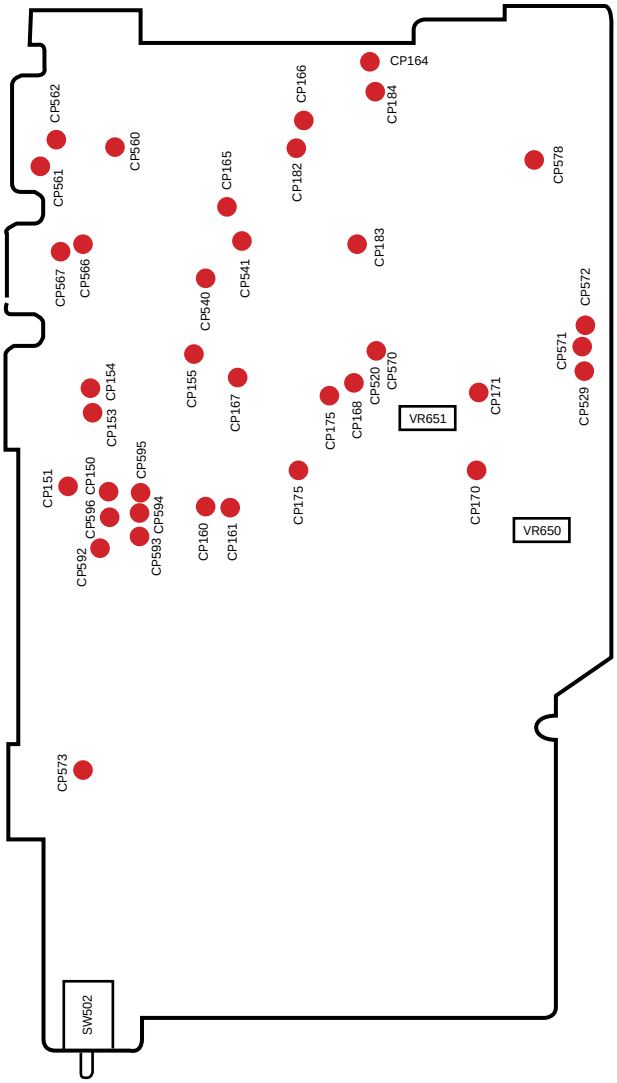
(3) Using [+] or [–] buttons, select a test mode then press “SHUTTER”.

2. PCB K772-DA Adjustment

Contents of the adjustment

(1) VCC1, VCC3 checks
(2) VCC7, VEE3 adjustments
(3) Clock oscillation frequency check

Checkpoints



2-1. VCC1, VCC3 voltage check

Apply 5.0 ± 0.05 [V] on check point CP150. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)

(1) At Power on;

VCC1 (CP164) ..... 3.2 ± 0.16 [V]
VCC5-1 (CP165) ..... 5.25 ~4.75 [V]
VCC5-2 (CP166) ..... 5.25~4.72 [V]
VCC3-1 (CP167) ..... 3.3 ± 0.17 [V]
VCC3-3 (CP168) ..... 3.3 ± 0.17 [V]
VCC3-4 (CP169) ..... 3.3 ± 0.17 [V]

(2) At Power off;

VCC3-1 (CP164) ..... 0 [V]

2-2.VCC7, VEE3 adjustment

Apply 5.0 ± 0.05 [V] on check point CP150. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)

(1) Adjust VR650 so that VCC7 (CP170) is 15.0 ± 0.45 [V].

(2) Adjust VR651 so that VEE3 (CP171) is -5.5 ± 0.2 [V].

2-3.Clock oscillation check

- Apply 3.2 ± 0.1 [V] on lithium battery terminal (CP578).
- Turn power off.
- Room temperature should be 25 ± 10 °C.

(1) Use quartz timer or frequency counter to measure clock frequency.
  - Quartz timer; within ± 62 ppm
  - Frequency counter (check point TC500 signal pad); 32.767 ± 0.002 [KHz}

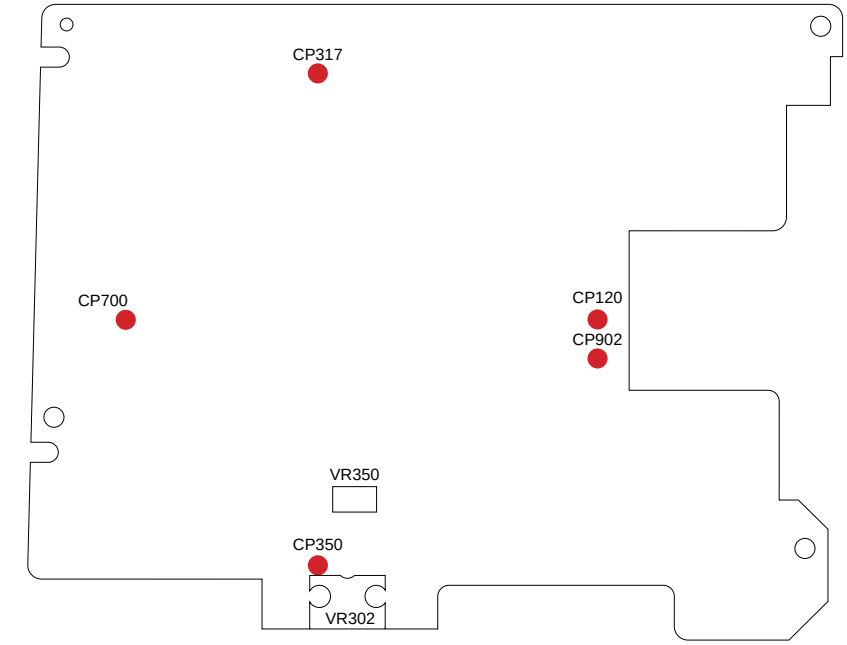
(2) Current consumption; less than 1 [μA]

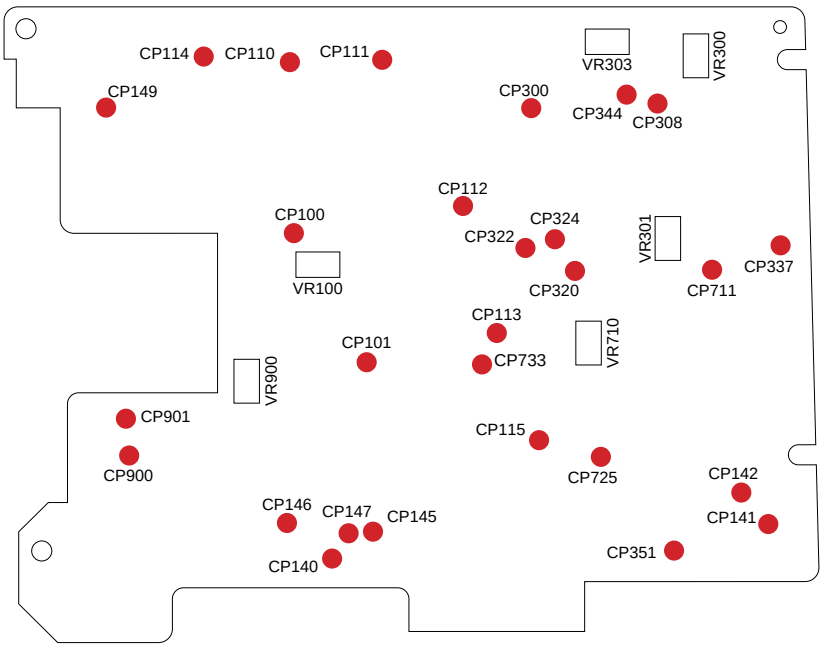
3. PCB K772-L Adjustment

Contents of the adjustment

(1) VCC1 adjustment and VCC2, VCC6, VEE2, VCC0 voltage check
(2) VCO free run frequency adjustment
(3) Backlight drive voltage adjustment
(4) VCOM AC adjustment and VCOM DC coarse adjustment
(5) Brightness voltage setting and contrast adjustment
(6) Color adjustment
(7) TINT volume adjustment
(8) VCOM DC fine adjustment

Check points





3-1.VCC1 adjustment and VCC2, VCC6, VEE2, VCC0 voltage check

Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)

(1) Adjust VR100 so that VCC1 is 4.50 ± 0.02 [V]

(2) Check the following voltages.
VCC2 ..... 11.5 ~ 12.5 [V]
VCC6 ..... 17.5 ~ 19.5 [V]
VEE2 ..... -9.5 ~ -11.5 [V]
VCC0 ..... 2.8 ~ 3.2 [V]

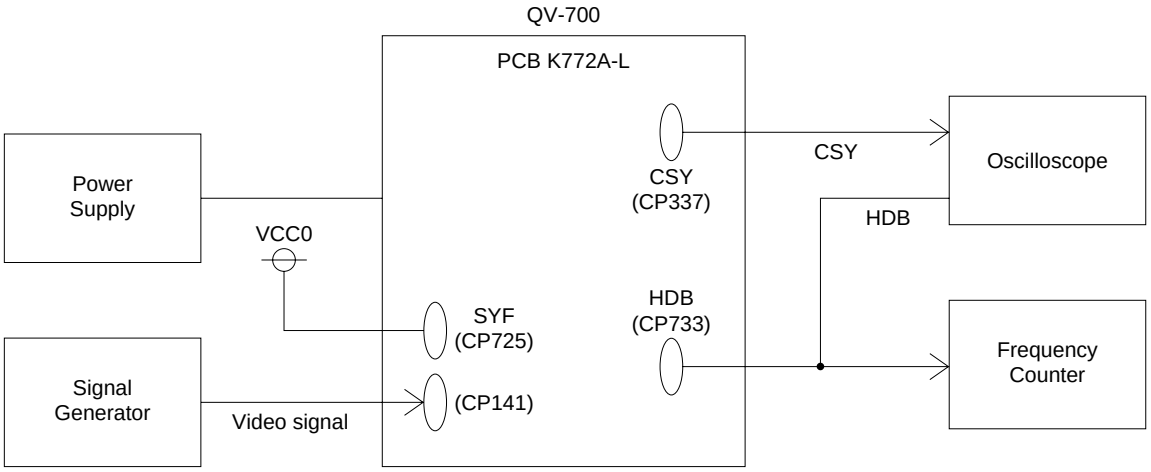
(3) Turn the power off and make sure that all the voltages are 0 [V].

3-2.VCO free run frequency adjustment

- Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)
- Input oscillation level 0.5 Vp-p standard video signal to VIDEO terminal (CP141) using a signal generator.(Normally you can use the signal from the digital PCB K772-DA however, when the camera is faulty, apply the above mentioned signal from signal generator.)
- Connect check points CP725 (SYF) and CP115 (VCC0).

(1) Monitoring CP733 (HDB) with a frequency counter, adjust VR710 so that the frequency is 15.734 ± 0.1 [KHz].

(2) Disconnect CP725 and CP115 and make sure that signals of CP337 (CSY) and CP733 (HDB) are synchronized.



3-3.Backlight drive voltage adjustment

Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)

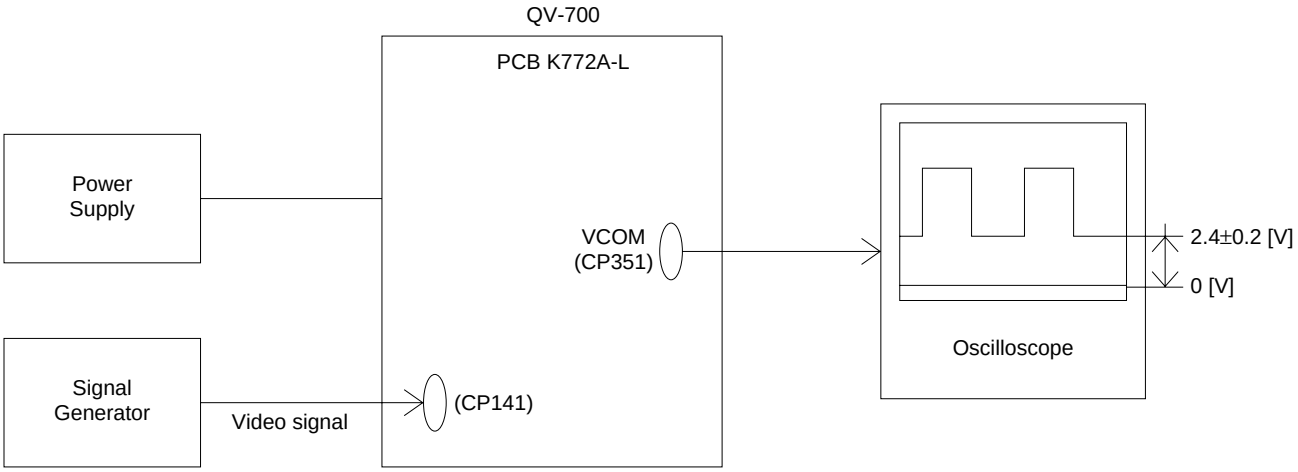
(1) Adjust VR900 so that CP901 (VBL) is 11.5 ± 0.1 [V].
Also make sure that the current consumption is not abnormally large.

3-4.VCOM AC adjustment and VCOM DC coarse adjustment

- Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)
- Input oscillation level 0.5 Vp-p standard video signal to VIDEO terminal (CP141) using a signal generator.(Normally you can use the signal from the digital PCB K772-DA however, when the camera is faulty, apply the above mentioned signal from signal generator.)

(1) Make sure that the oscillation level of VCOM output (CP351) is 6.0 ± 0.3 [V].

(2) Adjust VR350 so that the low level potential is 2.4 ± 0.2 [V].



3-5.Brightness voltage setting and contrast adjustment

- Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)
- Input oscillation level 0.5 Vp-p standard video signal to VIDEO terminal (CP141) using a signal generator.(Normally you can use the signal from the digital PCB K772-DA however, when the camera is faulty, apply the above mentioned signal from signal generator.)

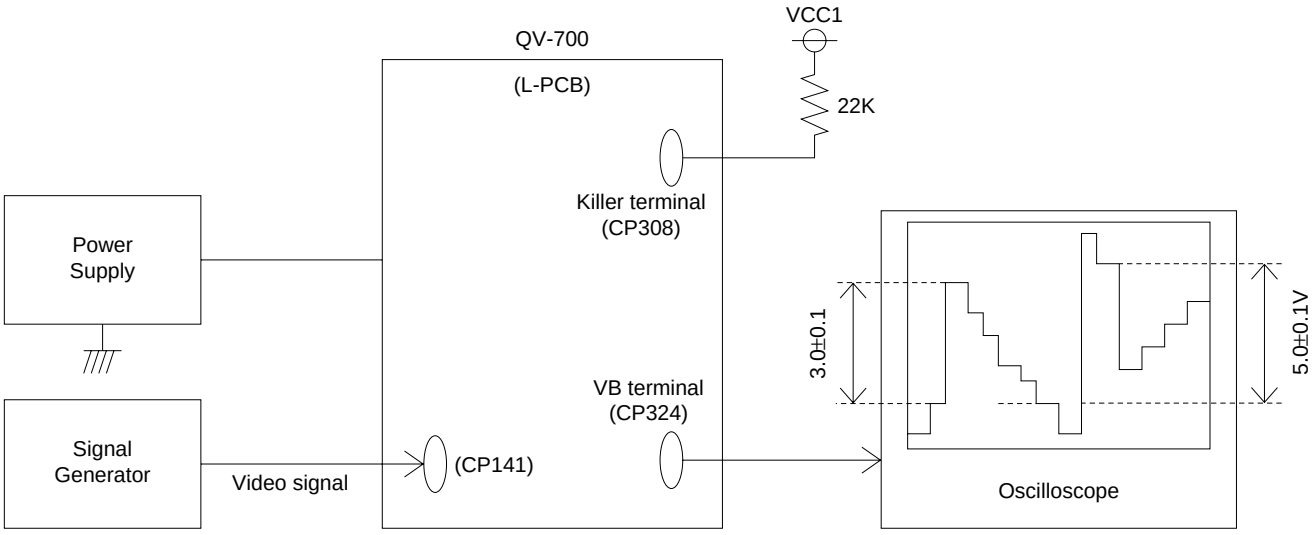
(1) Via 22 kohm resistor apply VCC1 (CP113) voltage on killer terminal (CP308).

(2) Adjust BRIGHT VR (VR302) so that pedestal voltage of VB (CP324) signal is 5.0 ± 0.1 [V].

(3) Connect oscilloscope's trigger terminal to FRP (CP711) for external trigger.

(4) Adjust VR303 so that potential between VB (CP324) signal's pedestal and white peak is 3.0 ± 0.1 [V].

- Make sure that the waveforms are not distorted.
- After the adjustment, disconnect the voltage supply of the killer terminal.
- Do not turn BRIGHT VR until TINT and COLOR adjustments are completed.

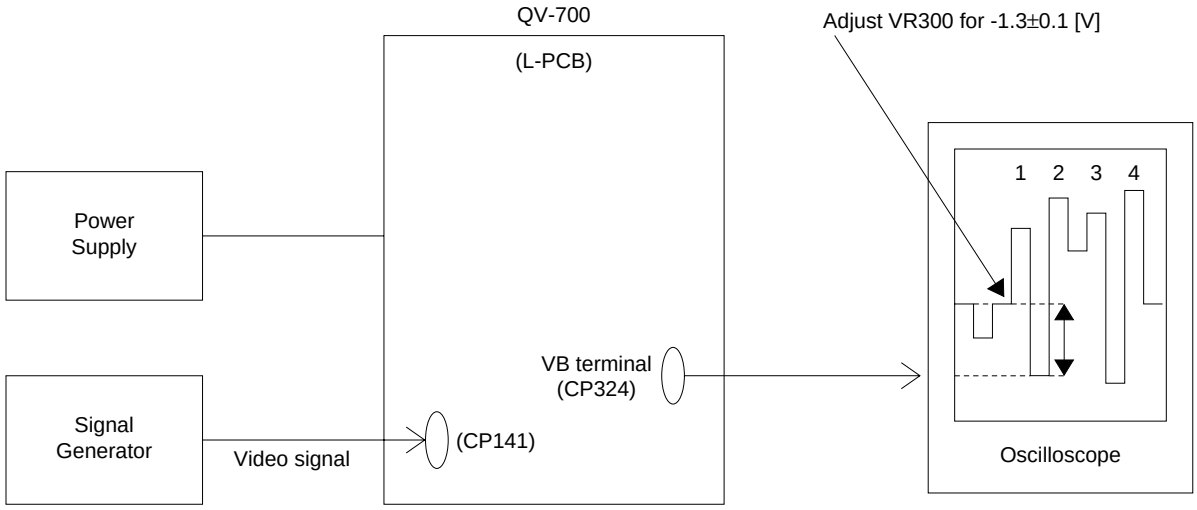


3-6.Color adjustment

- Perform this procedures together with TINT adjustment.
- Perform this adjustment after contrast adjustment.
- During the adjustment, make sure that the pedestal voltage of VB (CP324) signal is 5.0 ± 0.1 [V]. If not , perform the step (2) of “Brightness voltage setting and contrast adjustment”.
- Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)
- Input oscillation level 0.5 Vp-p standard video signal to VIDEO terminal (CP141) using a signal generator.(Normally you can use the signal from the digital PCB K772-DA however, when the camera is faulty, apply the above mentioned signal from signal generator.)

(1) Connect oscilloscope’s trigger terminal to FRP (CP711) for external trigger.

(2) Adjust VR300 so that the negative side of the first and the second pulses of VB (CP324) signal is -1.3 ± 0.1 [V].

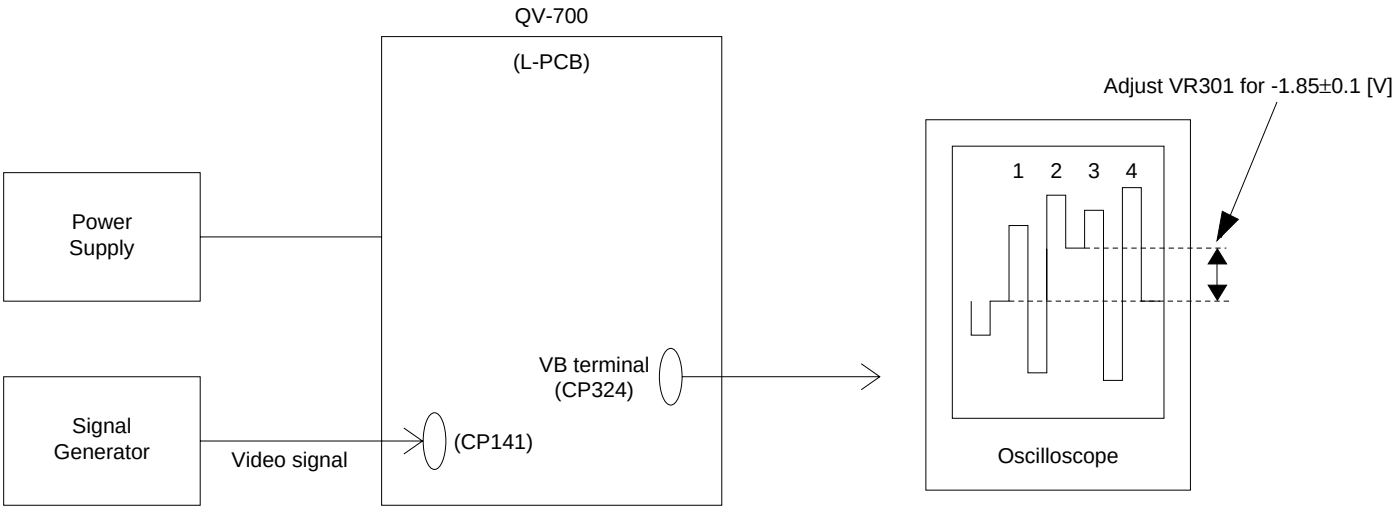


3-7.TINT adjustment

- Perform this procedures together with COLOR adjustment.
- Perform this adjustment after contrast adjustment.
- During the adjustment, make sure that the pedestal voltage of VB (CP324) signal is 5.0 ± 0.1 [V]. If not , perform the step (2) of “Brightness voltage setting and contrast adjustment”.
- Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)
- Input oscillation level 0.5 Vp-p standard video signal to VIDEO terminal (CP141) using a signal generator.(Normally you can use the signal from the digital PCB K772-DA however, when the camera is faulty, apply the above mentioned signal from signal generator.)

(1) Connect oscilloscope’s trigger terminal to FRP (CP711) for external trigger.

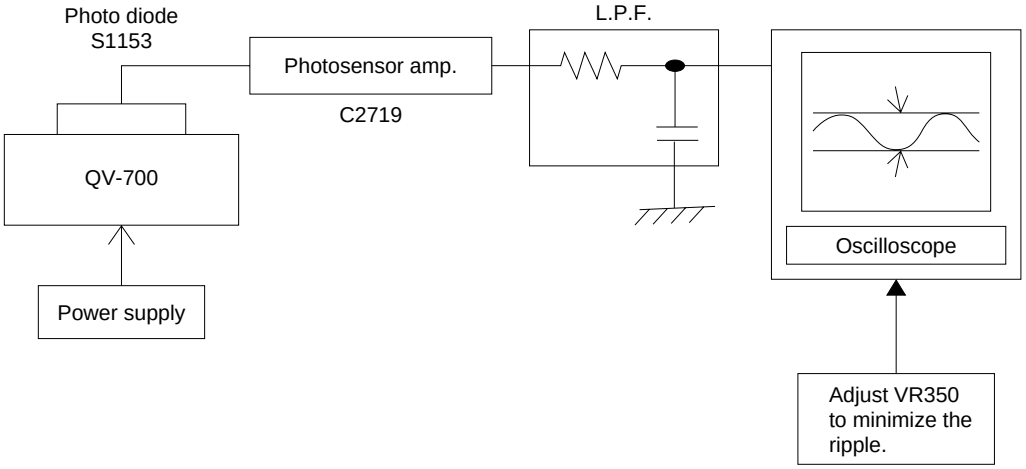
(2) Adjust VR301 so that the negative side of the first and the second pulses of VB (CP324) signal is 1.85 ± 0.1 [V].



3-8.VCOM DC adjustment

- Perform this adjustment when you replace the display module.
- No signal input
- BRIGHT VR: Minimum
- Apply 5.0 ± 0.05 [V] on check point CP101. (For normal check you can use an AC adaptor however, when the camera is faulty, apply the above mentioned voltage.)

(1) Passing photosensor amp output signal through 60 Hz low-pass filter, adjust VR350 to minimize the ripple of 60 Hz signal.



DISASSEMBLY

The following explains the disassembly procedure of QV-700. Numbers in the procedures correspond to the part numbers on the exploded view.
Assembly can be done by the reverse order.

1. Remove the CompactFlash card by pushing the release lever.

2. Remove two screws ⑤⓪ from the bottom of the camera.

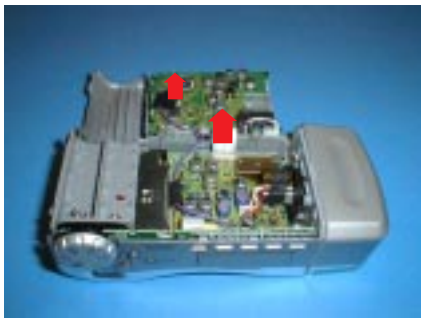
3. Unscrew two screws ④⑥ from the lens side of the case.
   Note: Turn the lens as screws ④⑥ are hidden by the Camera unit ①.

4. Remove three screws ④⑧ and one screw ④⑨ from the CompactFlash card compartment.
   Note: Screw ④⑨ is longer than the others. Do not misplace it when you assemble the camera.

5. Prying the case ㉘, remove the battery cover and CompactFlash card cover.

6. Unhook the upper part of Case/Upper ㉘ and open the case.

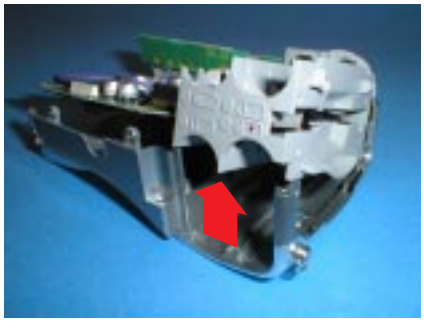
7. Desolder a lead wire from PCB Ass'y/Linear ㊶ and disconnect FPC from the connector CN514 on PCB Ass'y/Digital. Separate Case/Upper ㉘ and Case/Lower ⑮.

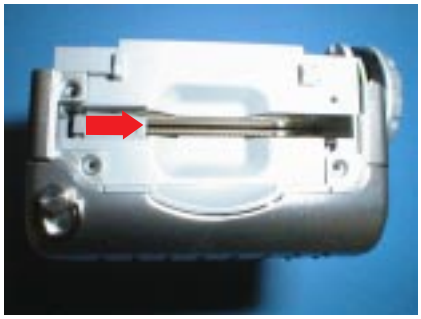


8. Remove two screws ㊼ and disconnect two connectors from PCB A'ssy/Digital then separate Camera unit ①.

9. Remove two screws ㊻ from PCB Ass'y/Digital ② and detach FPC from connector CN504.

10. Lift up the buttom of the battery compartment and remove Holder/Battery ③ and PCB Ass'y/Digital.





Note: Before you remove Holder/Battery ③, be sure that CompactFlash card release lever is in upright position.

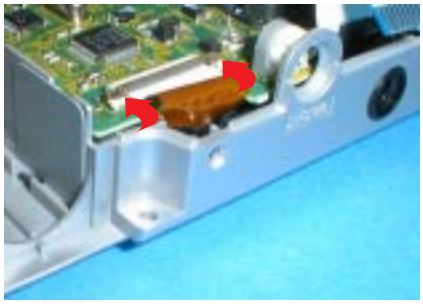
11. Take Knob/Selector ⑥ and PCB Ass'y/Key ⑤ off the case.
Note: Knob/Selector ⑥ can be removed by unscrewing two screws ㊻ from the bottom of the knob.

12. Peel Grip ㉑ then remove one screw ㊽ from Panel/Rear ⑳.
Unclip the E-ring from Pin ⑳.
Note: Peel Panel/Rear carefully off Case/Lower ⑮ as it is attached with adhesive tapes.

Removing LCD Unit

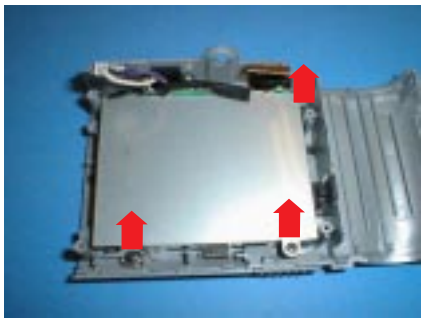
13. Remove four screws ㊷ from PCB Ass'y/Linear ㊷.

14.Lift up the stopper tab of connector CN700 and disconnect FPC cable. Also disconnect connector CN920.



15.Remove the BRIGHT knob ㉚ and take PCB Ass'y/Linear off the case.
Note: Be careful not to bend or break the LED on the other side of the PCB.

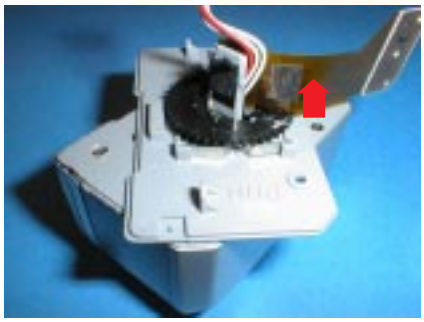
16.Remove Three screws ㊷ from BL ass'y ㊵ then remove the BL ass'y.
Note: Do not touch BL ass'y with naked hand.

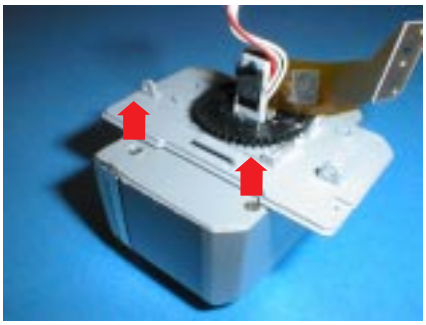


17.Remove Spacer ㊴ and Display Ass'y ㊲.
Note: Do not touch Display Ass'y with naked hand.

Camera Unit

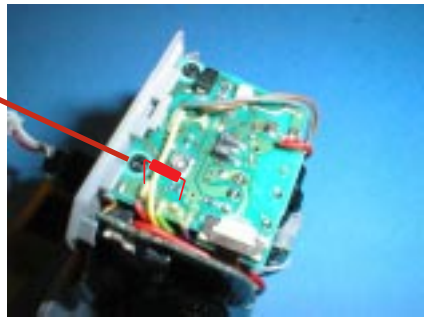
18.Remove three screws ㊽ and ㊸.



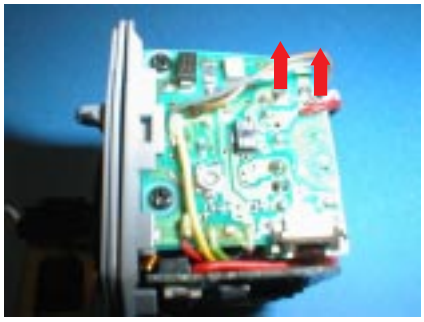


19.Peel off the caution label.

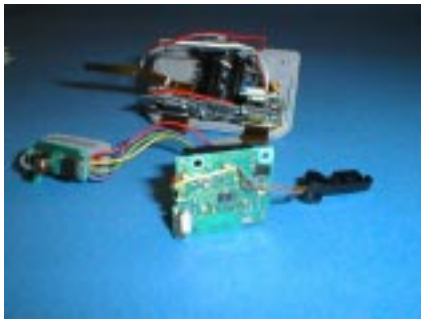
Caution: Since high-voltage is applied on the circuits on Camera Unit, there is a risk of electric shock. Before proceeding to the following steps, discharge 70 µF, 300 V capacitor with a 1.5 kohm,5 W cement resistor.



20.Remove two screws and disconnect two wires red and white.

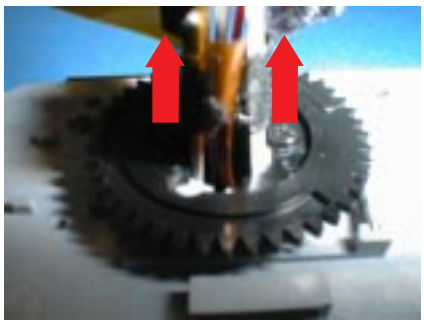


21.Remove Strobe unit (1-3).

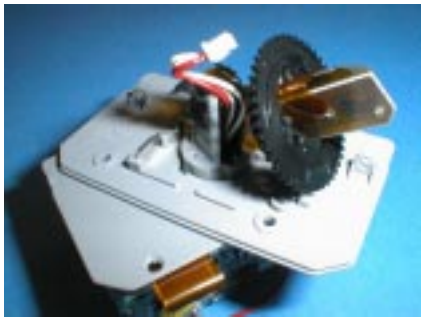


22.Remove two screws from the gear.

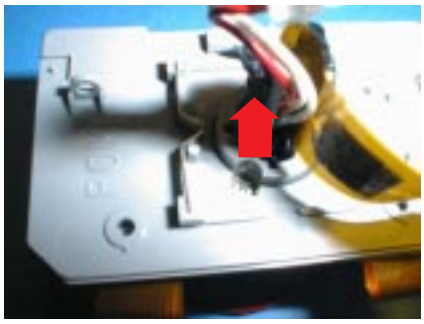
Peel off the adhesive tape wrapped around the case shaft.



23.Twisting the FPC cable and pulling out the connector throught the hole on the gear, pull the gear out.



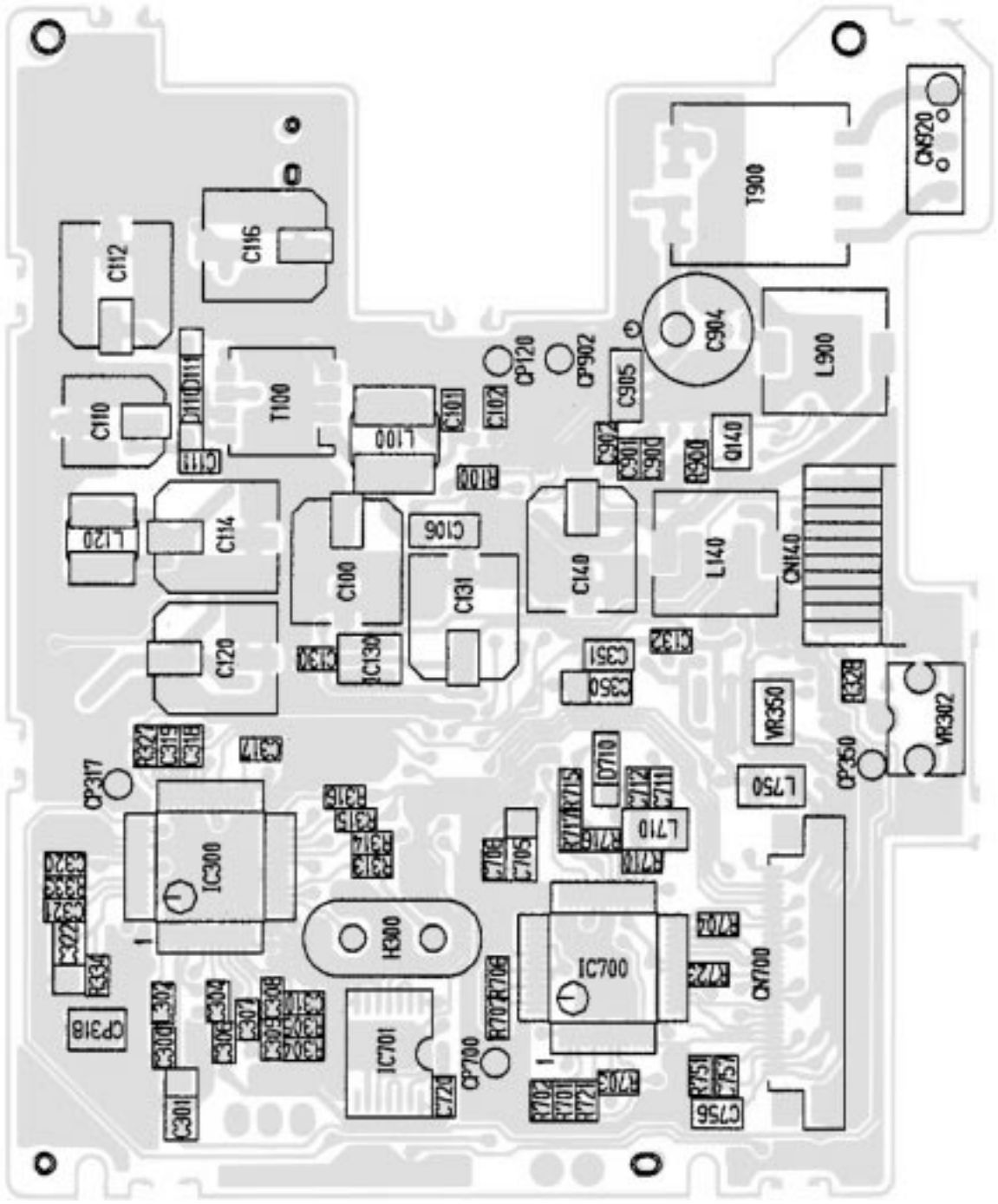
24.Remove one screw ㊷.



25.Disconnect FPC cables from the connectors CN200, CN201, and CN501 then remove CCD unit (1-2).

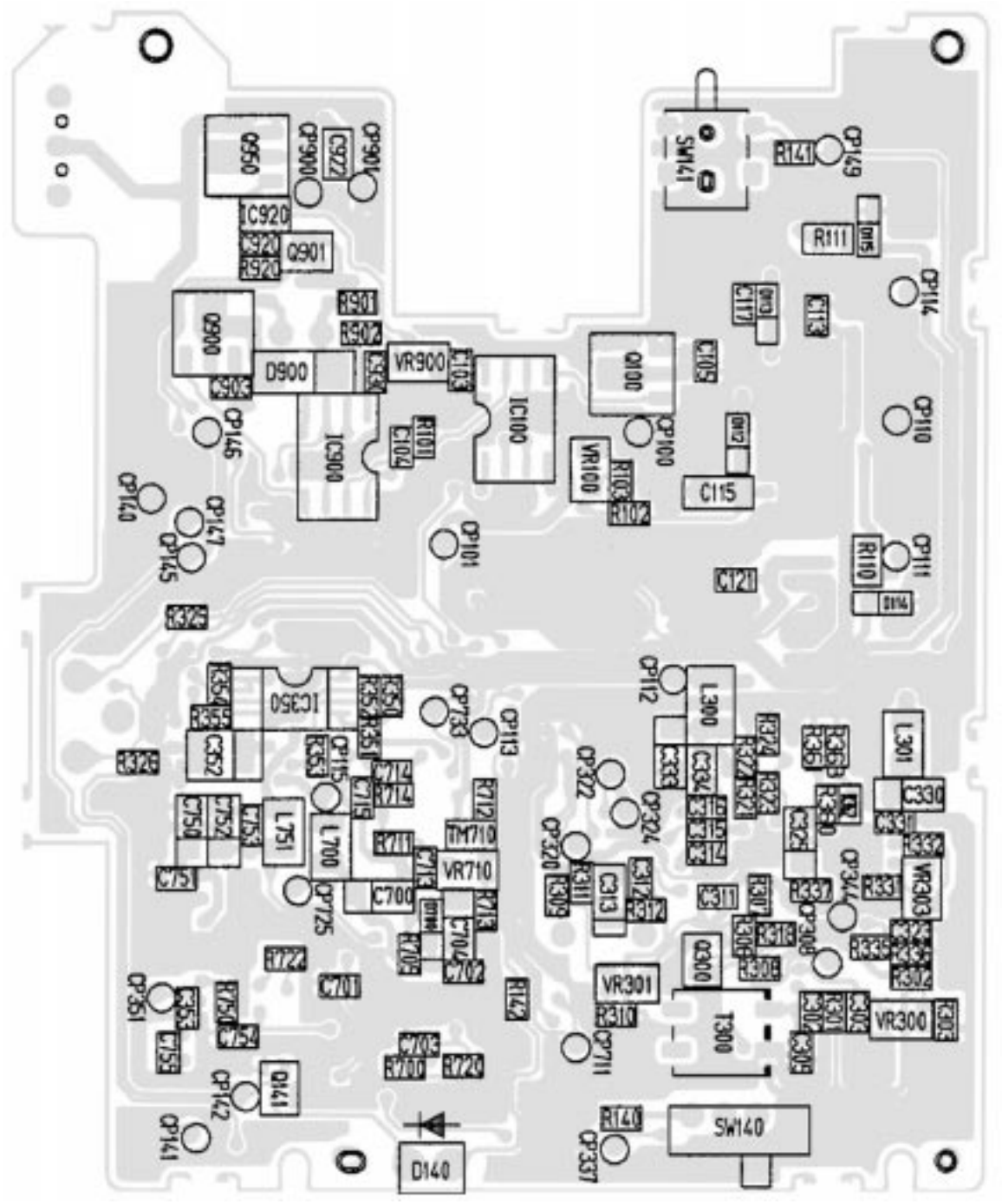
PRINTED CIRCUIT BOARDS

PCB K772-L



Top view

PCB K772-L

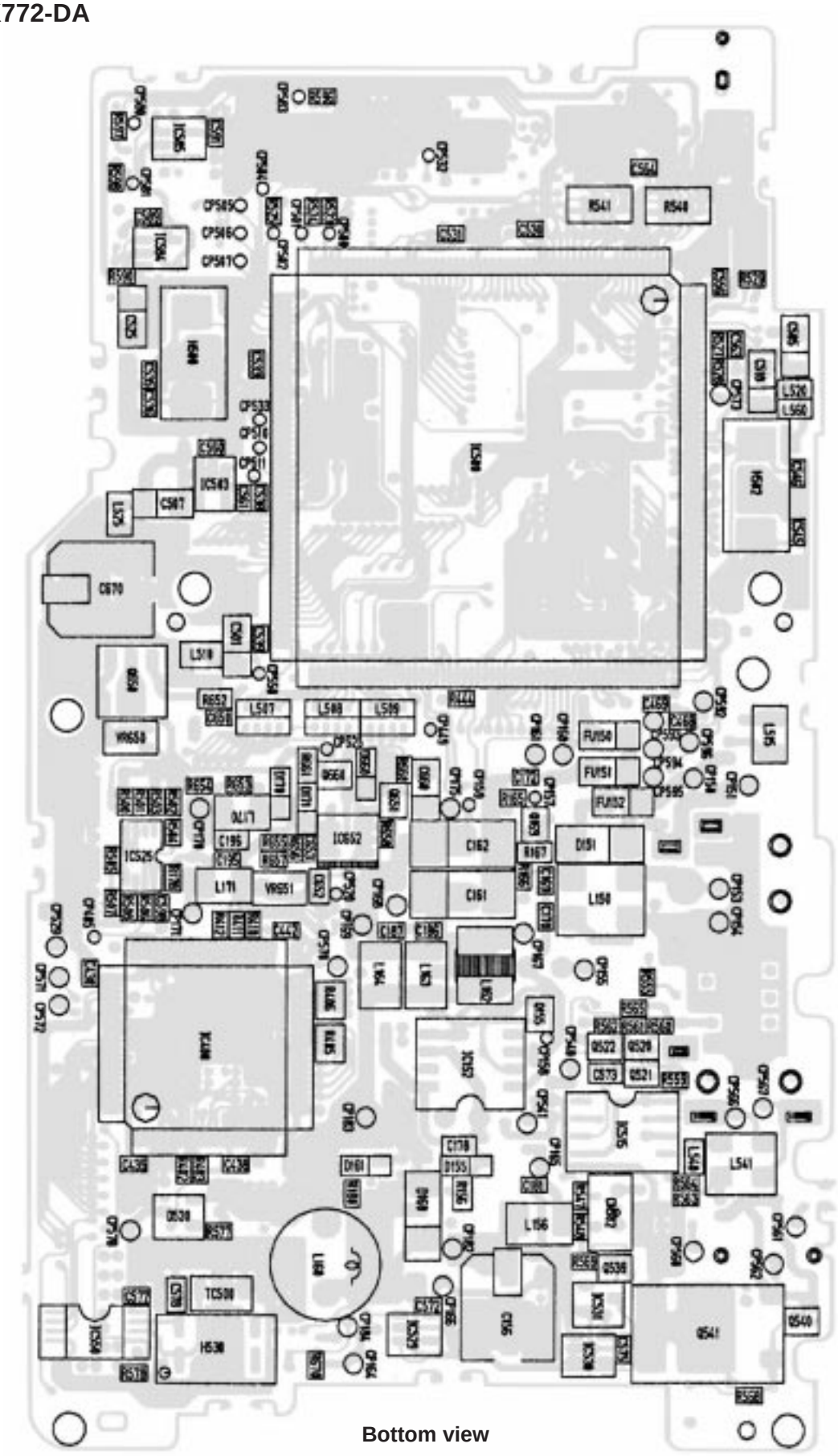


Bottom view

PCB K772-DA

Top view

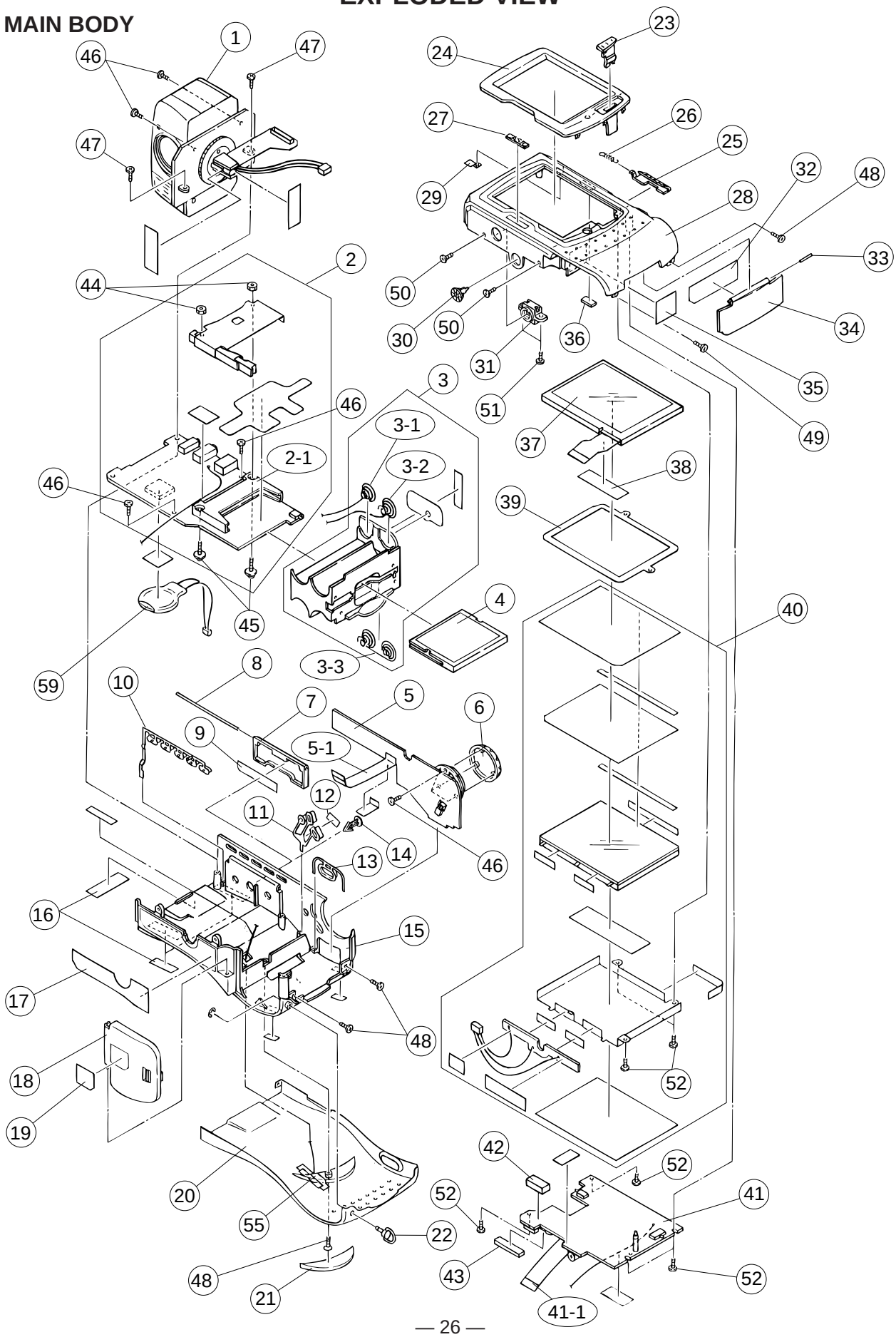
PCB K772-DA



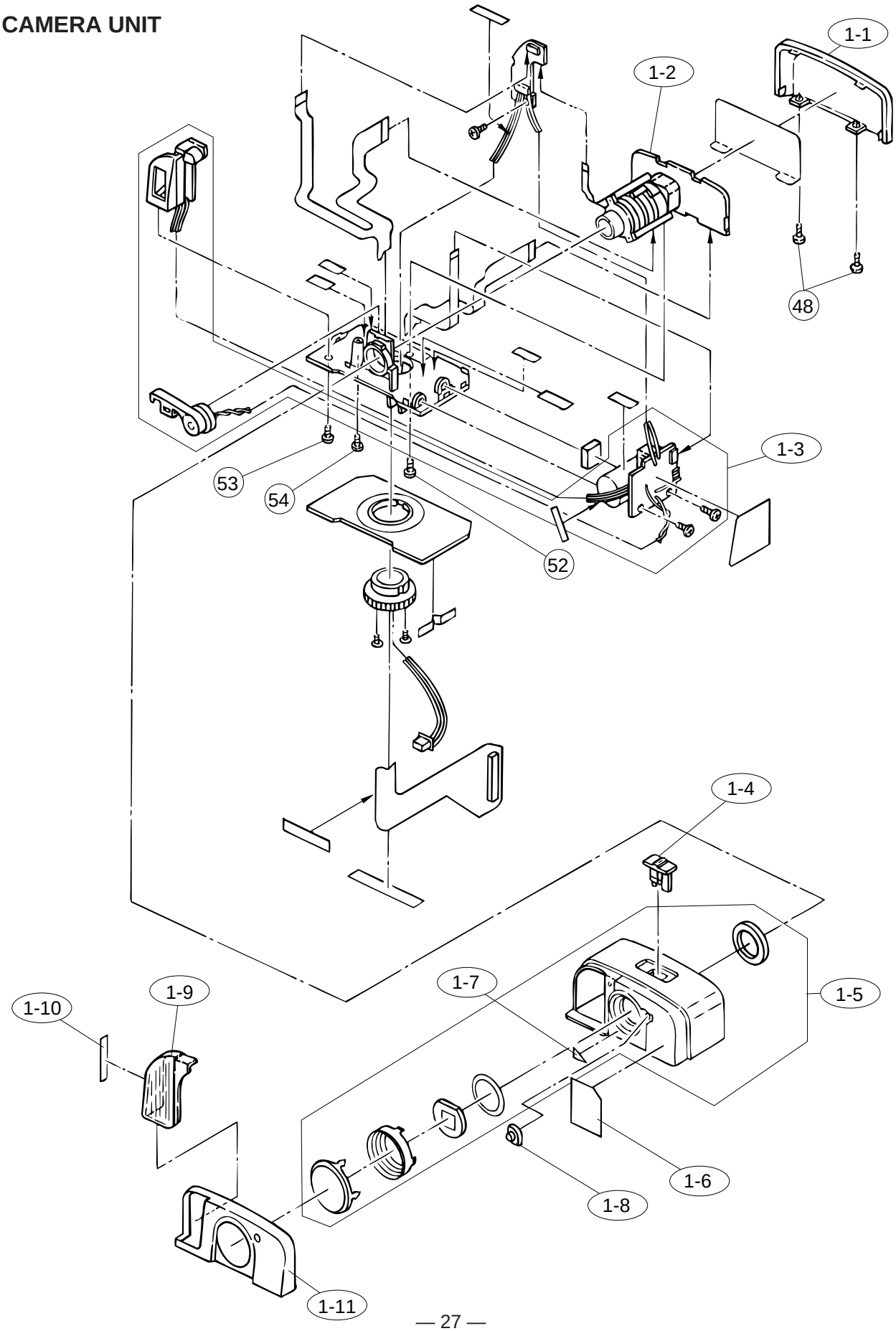
Bottom view

EXPLODED VIEW

MAIN BODY



CAMERA UNIT



PARTS LIST

LINEAR PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	Diodes					
D110	7101 1194	DIODE	MA111-(TX)	Common	1	C
D111	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	Common	1	C
D112	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	Common	1	C
D113	7101 1194	DIODE	MA111-(TX)	Common	1	C
D700	7101 1194	DIODE	MA111-(TX)	Common	1	C
D710	2390 1358	DIODE/VARICAP	MA329-(TX)	Common	1	C
D900	2390 1421	DIODE/SCHOTTKY	MA738-(TX)	Common	1	C
	ICs					
IC100	2114 3654	IC	MB3800PNF-G-BND-EF	Common	1	C
IC130	2105 4501	IC/MOS	RN5RL30AA-TR	Common	1	C
IC300	2114 5804	IC	IR3Y18A	Common	1	C
IC350	2114 5805	IC	NJM3414AV-TE1	Common	1	C
IC700	2012 5744	LSI	CM7013L2-T4N	Common	1	C
IC701	2105 6397	IC	TC74VHCT04AFT(EL)	Common	1	C
IC900	2114 3654	IC	MB3800PNF-G-BND-EF	Common	1	C
IC920	7720 0700	IC	TC7S02FU-TE85L	Common	1	C
	LED					
D140	2370 1396	LED	SLC-22DU3F	Common	1	C
	Transistors					
Q100	2253 0308	TRANSISTOR	2SD1119-R(TX)	Common	1	B
Q140	7911 0126	TRANSISTOR/DIGITAL	DTC144EUAT106	Common	1	B
Q141	7911 0126	TRANSISTOR/DIGITAL	DTC144EUAT106	Common	1	B
Q900	2253 0308	TRANSISTOR	2SD1119-R(TX)	Common	1	B
Q901	7911 0126	TRANSISTOR/DIGITAL	DTC144EUAT106	Common	1	B
Q950	2253 0700	TRANSISTOR	2SK1485-T1	Common	1	B
	Switches					
SW140	3412 2080	SWITCH	SSSS712-ZA	Common	1	C
SW141	3412 2002	SWITCH	SPVC2-1-T	Common	1	C
	Converter and Transformaer					
T100	3065 0711	CONVERTER/DC-DC	6CA-01	Common	1	B
T900	3012 1477	TRANSFORMER/INVERTER	ETJ09K20AM	Common	1	B
	Variable resistor					
VR302	2775 0644	RESISTOR/SEMI-FIXED	H0614D-10KB	Common	1	C

Notes: Q – Quantity used per unit
R – Rank

DIGITAL PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	Diodes					
D151	2390 2506	DIODE	RB060L-40-TE25	Common	1	C
D155	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	Common	1	C
D160	2390 2394	DIODE/SCHOTTKY	U1FWJ44N-TE12L	Common	1	C
D161	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	Common	1	C
D170	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	Common	1	C
D171	7101 1194	DIODE	MA111-(TX)	Common	1	C
D510	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	Common	1	C
D513	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	Common	1	C
D525	2259 2735	DIODE/SCHOTTKY	HRW0202ATL	Common	1	C
D660	7101 1194	DIODE	MA111-(TX)	Common	1	C
	Fuses					
FU150	3632 0630	FUSE	KE10	Common	1	A
FU151	3632 0724	FUSE	KE13	Common	1	A
FU152	3632 0709	FUSE	KE16	Common	1	A
	ICs					
IC150	2114 5806	IC	TK11232BMCL	Common	1	C
IC152	2105 3374	IC/CMOS	RS5RM5045A-T1	Common	1	C
IC156	2105 6404	IC	XC6375A311PR	Common	1	C
IC400	2114 5808	LSI	CXD3120R	Common	1	C
IC500	2114 5809	LSI	MB91181PMT-G	Common	1	C
IC503	2114 5810	IC	S-80930ALMP-DAT-T2	Common	1	C
IC505	2012 5912	LSI	LH5V4CT1	Common	1	C
IC507	2012 5747	LSI	MB81V16165B50LPFTN	Common	1	C
IC510	2105 5712	IC	TC7S04FU(TE85L)	Common	1	C
IC515	2105 6378	IC	MM1228XFBE	Common	1	C
IC529	7911 0105	OP-AMP	TA75S01F(TE85L)	Common	1	C
IC530	7911 0105	OP-AMP	TA75S01F(TE85L)	Common	1	C
IC531	2105 6361	IC/MOS	XC61AC2402MR	Common	1	C
IC540	2012 5748	LSI	UPD6466GS-508-E1	Common	1	C
IC545	2105 6425	IC/MOS	XC61AN3802MR	Common	1	C
IC550	2105 6399	IC	RS5C316A-E2	Common	1	C
IC580	2105 5516	IC/CMOS	TC7W126FU-TE12L	Common	1	C
IC582	6571 0037	IC/L-MOS	TC7W00FU(TE12L)	Common	1	C
IC584	2114 5817	IC	S-80936ANMP-DD0-T2	Common	1	C
IC586	2105 3521	IC/CMOS	TC7S08FU-TE85L	Common	1	C
IC588	2105 5215	IC/CMOS	TC7W74FU(TE12L)	Common	1	C
IC651	2105 5999	IC	XC6383F501MR	Common	1	C
IC652	2114 5607	IC	TK11830MTL	Common	1	C
	Jacks					
JK150	3501 6755	JACK	HEC3600-010120	Common	1	C
JK510	3501 6538	JACK	HSJ1169-012010	Common	1	C
JK515	3501 5439	JACK	HSJ1456-01-210	Common	1	C
	Switch					
SW502	3412 2002	SWITCH	SPVC2-1-T	Common	1	C
	Transistors					
Q155	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q156	2259 2716	TRANSISTOR	2SC4617TLR	Common	1	B
Q158	2114 5807	FET	SI3441DV-T1	Common	1	B
Q159	7101 5791	TRANSISTOR/DIGITAL	DTA144EETL	Common	1	B
Q169	2259 2716	TRANSISTOR	2SC4617TLR	Common	1	B
Q507	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q508	2259 2731	TRANSISTOR/DIGITAL	DTA114EE-TL	Common	1	B
Q510	2259 2731	TRANSISTOR/DIGITAL	DTA114EE-TL	Common	1	B
Q511	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B

Notes: Q – Quantity used per unit
R – Rank

Item	Code No.	Parts Name	Specification	Applicable	Q	R
Q515	2254 0448	FET	2SK1580-T1	Common	1	B
Q520	2259 2716	TRANSISTOR	2SC4617TLR	Common	1	B
Q521	2250 1579	TRANSISTOR	2SA1774TLR	Common	1	B
Q522	2259 2716	TRANSISTOR	2SC4617TLR	Common	1	B
Q539	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q540	2250 1579	TRANSISTOR	2SA1774TLR	Common	1	B
Q541	2251 0926	TRANSISTOR	2SB1412TLQ	Common	1	B
Q543	2259 2716	TRANSISTOR	2SC4617TLR	Common	1	B
Q580	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q582	7101 5791	TRANSISTOR/DIGITAL	DTA144EETL	Common	1	B
Q583	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q585	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q588	2250 1579	TRANSISTOR	2SA1774TLR	Common	1	B
Q650	2253 0308	TRANSISTOR	2SD1119-R(TX)	Common	1	B
Q651	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q652	2251 0882	TRANSISTOR	2SB1073-(TX)	Common	1	B
Q653	2259 2715	TRANSISTOR/DIGITAL	DTC144EETL	Common	1	B
Q660	2250 1579	TRANSISTOR	2SA1774TLR	Common	1	B

KEY PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	Switches					
SW801	2254 0555	SWITCH	ESE22MH4	Common	1	B
SW802	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW803	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW804	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW805	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW806	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW807	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW808	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW809	3412 2068	SWITCH	EVQPQHB55	Common	1	C
SW810	3412 2068	SWITCH	EVQPQHB55	Common	1	C

Notes: Q – Quantity used per unit
R – Rank

MAIN BODY COMPONENT

Item	Code No.	Parts Name	Specification	Applicable	Q	R
1	6612 6958	CAMERA UNIT	K240748*1	Common	1	C
1-1	6612 5880	CASE/CAMERA	R240158-1	Common	1	X
1-2	1014 9771	CCD UNIT	LS-015D	Common	1	B
1-3	6612 6964	STROBE UNIT	K240753*1	Common	1	B
1-4	6612 6030	KNOB/FOCUS	R340195-1	Common	1	X
1-5	6612 6963	CASE ASSY/CAMERA	K240752*1	Common	1	X
1-6	6612 8480	TAPE	K441232-1	Common	1	X
1-7	6612 8490	TAPE	K441233-1	Common	1	X
1-8	6612 6050	COVER/SENSOR	R340197-1	Common	1	X
1-9	1014 9772	COVER/STROBE	CA-KX-772A	Common	1	X
1-10	6612 7050	INSULATION SEAL	R440275-1	Common	1	X
1-11	6612 6080	PANEL	R240150-1	Common	1	X
2	6612 6970	PCB ASSY/DIGITAL	K340915*1	Common	1	B
2-1	3502 2343	EJECTOR/CARD	55065-005	Common	1	C
3	6612 6971	HOLDER/BATTERY	K340909*1	Common	1	X
3-1	6611 4320	SPRING/BATTERY	R440046-1	Common	1	X
3-2	6611 4310	SPRING/BATTERY	R440049-1	Common	1	X
3-3	6611 4300	SPRING/BATTERY	R440047-1	Common	1	X
4	2012 5745	CF CARD	SDCFB-2-200QV-T	Common	1	X
5	6612 6969	PCB ASSY/KEY	K340925*1	Common	1	C
5-1	6612 6300	CABLE/JOINT	R340174-1	Common	1	B
6	6612 6020	KNOB/SELECTOR	R240130-1	Common	1	X
7	6612 5990	COVER/CONNECTOR	R240129-1	Common	1	X
8	6612 6280	SHAFT	R440245-1	Common	1	X
9	6609 7530	LABEL	K440064-1	Except for Europe	1	X
9	6612 7040	LABEL	K440064-6	For Europe	1	X
10	6612 5960	BUTTON	R240128-1	Common	1	X
11	6612 5950	BUTTON	R340164-1	Common	1	X
12	6611 4340	ADHESIVE TAPE	R440051-1	Common	1	X
13	6612 5940	BUTTON	R340165-1	Common	1	X
14	6609 9680	CAP	K340237-1	Common	1	X
15	6612 5850	CASE/LOWER	R140037-1	Common	1	X
16	6612 8570	TAPE	K441240-1	Common	1	X
17	6612 6990	LABEL/RATING	K441169-2	Common	1	X
17	6612 7000	LABEL/RATING	K441169-3	Common	1	X
18	6612 6975	COVER/BATTERY	K340908*1	Common	1	B
19	6610 2531	LABEL/CAUTION	K440205A-2	Common	1	X
20	6612 6100	PANEL/REAR	R240152-1	Except for Europe	1	X
20	6612 8971	PANEL/REAR	R240152A-2	For Europe	1	X
21	6612 8600	GRIP	K340962-1	Common	1	X
22	6612 6260	PIN	R340181-1	Common	1	X
23	6612 5930	KNOB	R340169-1	Common	1	X
24	6612 5860	PANEL/DISPLAY	R240127-1	Common	1	X
25	6612 5920	KNOB	R240151-1	Common	1	X
26	6611 4410	SPRING	R440045-1	Common	1	X
27	6612 2460	PLATE	R440217-1	Common	1	X
28	6612 5840	CASE/UPPER	R140036-1	Common	1	X
29	6612 6160	PLATE	R440256-1	Common	1	X
30	6603 8924	KNOB	K3741D-1	Common	1	X
31	6611 4390	HOLE/TRIPOD	R340024-1	Common	1	X
32	6612 6960	LABEL	K441162-1	Common	1	X
33	6612 6270	SHAFT	R440253-1	Common	1	X
34	6612 6000	COVER/CF	R240136-1	Common	1	X
35	6612 8580	BLIND	K441242-1	Common	1	X
36	6612 8540	CUSHION	K441237-1	Common	1	X

Notes: Q – Quantity used per unit
R – Rank

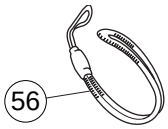
Item	Code No.	Parts Name	Specification	Applicable	Q	R
37	2725 1340	DISPLAY ASSY	COD25T2017LN	Common	1	B
38	6612 8530	SHEET/INSULATION	K441236-1	Common	1	X
39	6612 6180	SPACER	R440276-1	Common	1	X
40	6612 6966	BL ASSY	K340910*1	Common	1	B
41	6612 6967	PCB ASSY/LINEAR	K240763*1	Common	1	B
41-1	6612 6310	CABLE/JOINT	R340175-1	Common	1	B
42	6612 7070	SPACER	R440260-1	Common	1	X
43	6612 6190	SPACER	R440257-1	Common	1	X
44	5861 3591	NUT/HEXAGON	M2 ZMC-3	Common	2	C
45	5861 3589	SCREW	M2X8	Common	2	C
46	5860 0301	SCREW	BT3 1.7X3.5 NI	Common	7	C
47	5861 3111	SCREW	PT3 1.7X5.5 Bk	Common	2	C
48	5861 3549	SCREW	PT3 1.7X3.5 NI	Common	6	C
49	5860 9009	SCREW	PT3 1.7X4.5 Bk	Common	1	C
50	5861 3434	SCREW	PT3 1.7X4.5 NI	Common	2	C
51	5112 0906	SCREW	BT3 1.7X5.0 NI	Common	2	C
52	5860 1477	SCREW	BT3 1.7X3.5 Bk	Common	8	C
53	5112 0884	SCREW	BT3 1.7X3.0 NI	Common	1	C
54	5112 0868	SCREW	BT3 1.7X5.0 Bk	Common	1	C
55	6612 8980	PLATE	K441286-1	For Europe	1	C

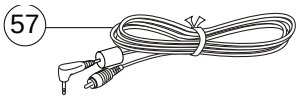
Notes: Q – Quantity used per unit
R – Rank

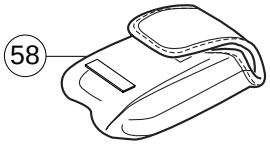
ACCESSORY

Item	Code No.	Parts Name	Specification	Applicable	Q	R
56	5861 3578	STRAP	ST-K775	Common	1	X
57	1014 8773	CABLE/VIDEO	VC-K723-FC	Common	1	X
58	1014 9800	CASE/SOFT	SC-772	Common	1	X
59	3815 0796	LITHIUM BATTERY	CR2016-CM1	Common	1	C

Notes: Q – Quantity used per unit
R – Rank

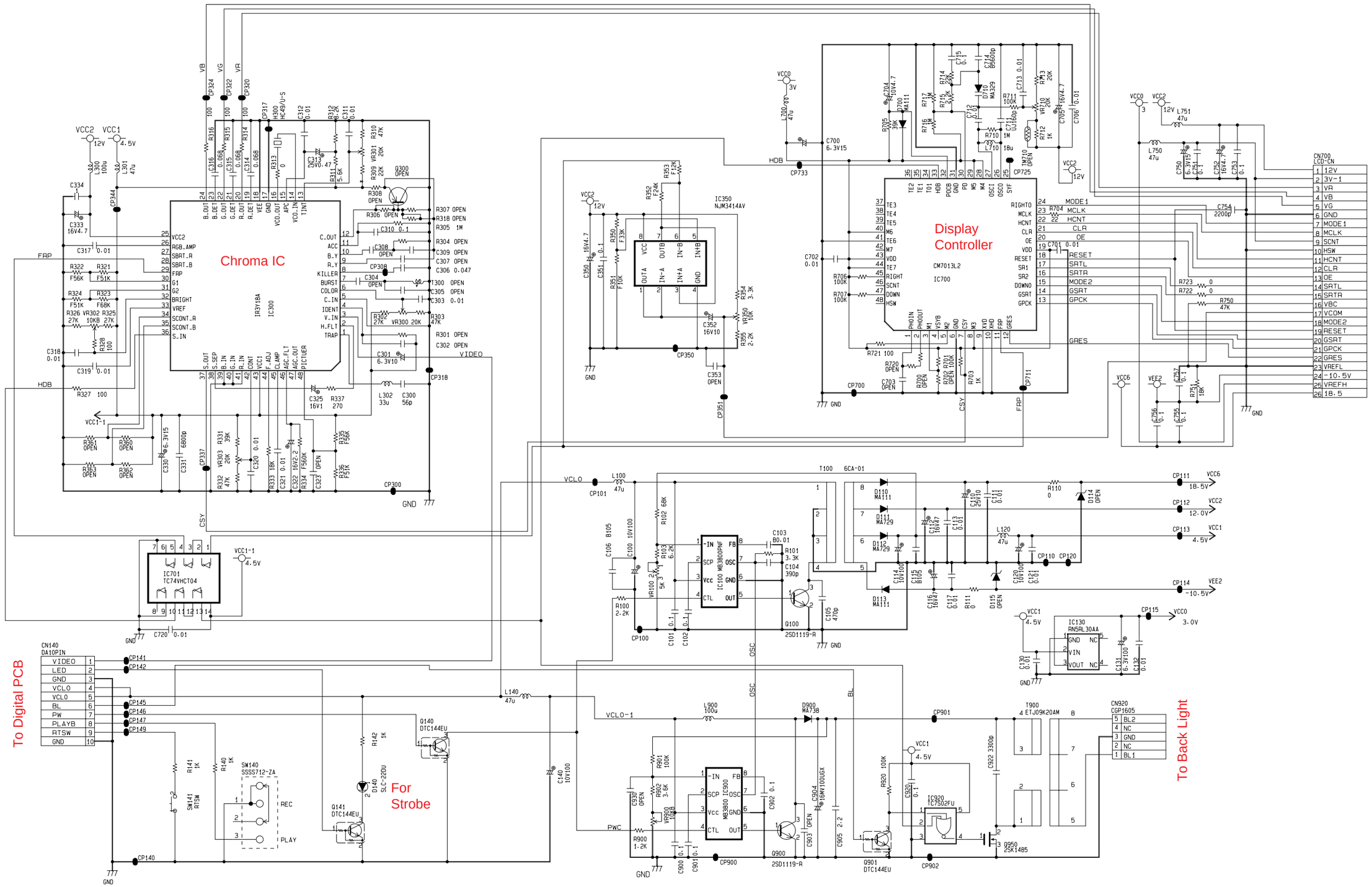






SCHEMATIC DIAGRAMS

PCB L772-L



PCB K772-DA

AC Adapter Jack

+5 V Power Supply Circuit

+3.3 V Power Supply Circuit

CCD Power Supply Circuit

Battery Voltage

+3.2 V

−5.5 V

+15.0 V

IC400
CXD3120R
YUV Processor

Video Signal Block

Communicaiton Blcok

To Linear PCB
Video Out

RS-232C Jack

CompactFlash Card Connector

CA-PCB

CB-PCB

Full charge detector

Flash level adjustment

Charge Current Controller

On Screen Display

RTC

IC500
MB91181
CPU
Data Expander
Data Compressor
Video Encoder

DRAM

Flash Memory

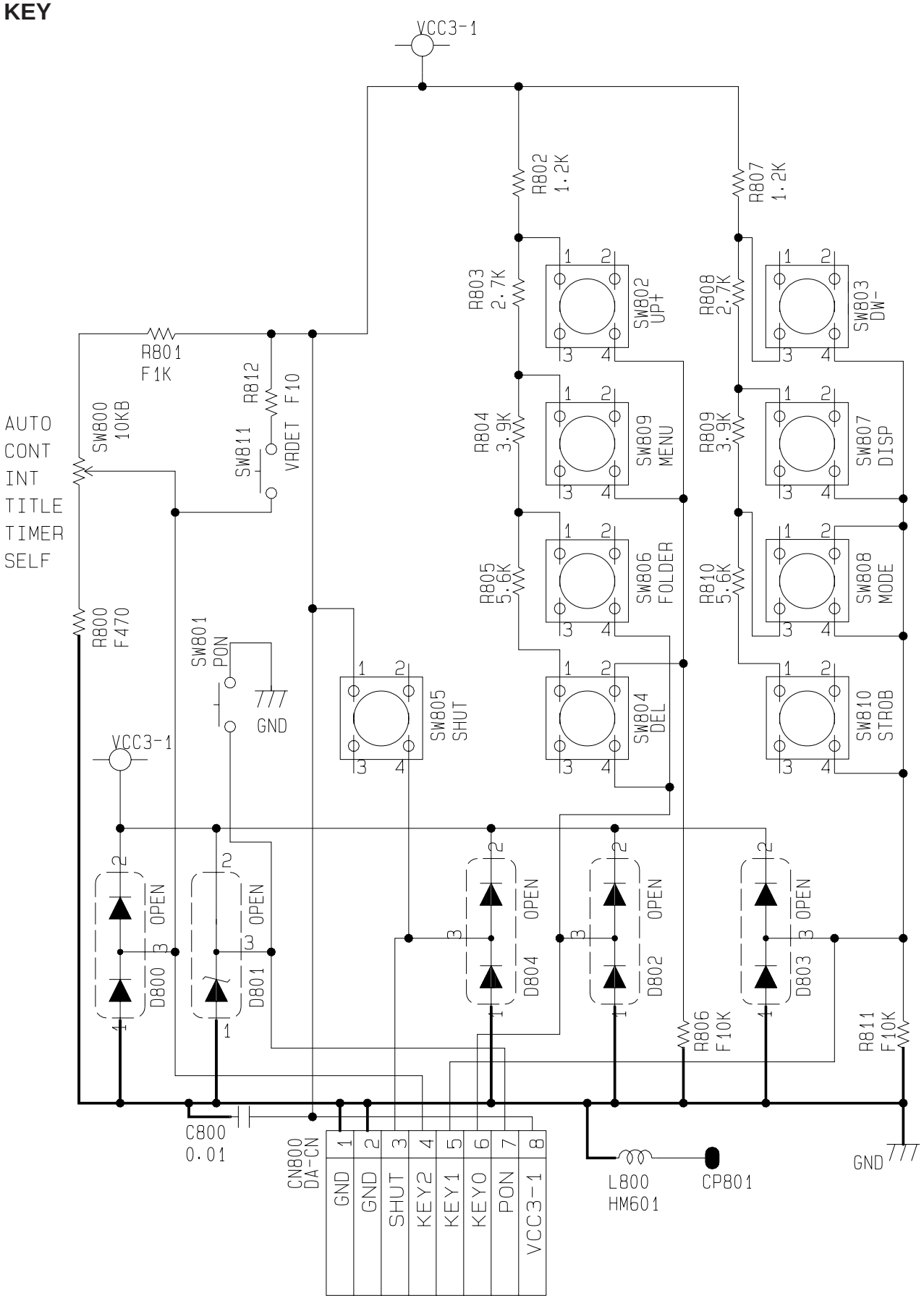
Li-BAT

To Key PCB

Power Supply Logic

Normal/Macro Detector

KEY


VCC3-1
R802 1.2K
R807 1.2K
R803 2.7K
R808 2.7K
SW802 UP+
SW803 DW-
R801 F1K
R812 F10
SW800 10KB
SW811
VRDET
AUTO
CONT
INT
TITLE
TIMER
SELF
R804 3.9K
R809 3.9K
SW809 MENU
SW807 DISP
R805 5.6K
R810 5.6K
SW806 FOLDER
SW808 MODE
R800 F470
SW801 PON
GND
SW805 SHUT
SW804 DEL
SW810 STROB
VCC3-1
D800 OPEN
D801 OPEN
D804 OPEN
D802 OPEN
D803 OPEN
R806 F10K
R811 F10K
C800 0.01
CN800 DA-CN
GND
GND
SHUT
KEY2
KEY1
KEY0
PON
VCC3-1
L800 HM601
CP801
GND

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