



SERVICE MANUAL

S630/S730



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I . SPECIFICATION

1. CAMERA SPECIFICATION

Image Sensor

- Type : 1/2.5" CCD
- Effective Pixel :
 - S730-Approx. 7.2 Mega-pixel
 - S630-Approx. 6.0 Mega-pixel
- Total Pixel :
 - S730-Approx. 7.4 Mega-pixel
 - S630-Approx. 6.1 Mega-pixel

Lens

- Focal Length : SHD Lens $f = 5.8 \sim 17.4\text{mm}$ (35mm film equivalent : 35~105mm)
- F No. : F2.8~F7.1 (wide), F4.9~F12.4 (Tele)
- Digital Zoom :
 - Still Image mode : 1.0X ~ 5.0X
 - Play mode : S730: 1.0X ~ 12.0X (depends on image size)
 - S630: 1.0X ~ 11.0X (depends on image size)

LCD Monitor

- 2.5" color TFT LCD (S730:230K dots, S630:150K dots)

Focusing

- Type : TTL auto focus
- Range

| | Normal | Macro | Auto Macro |
|------|-----------------|-----------|-----------------|
| Wide | 80cm ~ infinity | 5 ~ 80cm | 40cm ~ infinity |
| Tele | | 40 ~ 80cm | 40cm ~ infinity |

Shutter

- Shutter Speed : 1 ~ 1/1,500 sec. (Manual : 8 ~ 1/1,500 sec.)

Exposure

- Control : Program AE
- Metering : Multi, Spot
- Compensation : $\pm 2\text{EV}$ (1/3EV steps)
- ISO Equivalent : S730-Auto, 80, 100, 200, 400, 800, 1000
- S630-Auto, 80, 100, 200, 400

Flash

- Modes : Auto, Auto & Red-eye reduction, Fill-in flash, Slow sync, Flash off
- Range : Wide : 0.2m ~ 3.0m
- Tele : 0.4m ~ 2.5m (ISO AUTO)
- Recharging Time : Approx. 5 sec.

Sharpness

- Soft+, Soft, Normal, Vivid, Vivid+

Color Effect

- Normal, B&W, Sepia, Red, Green, Blue, Negative, User Set

White Balance

- Auto, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom

Voice Recording

- Voice Recording (max.10 hour)
- Voice Memo in Still Image (max. 10 sec.)

Date Imprinting

- Date, Date & Time, Off (user selectable)

Shooting







- Still Image :
 - Modes : Auto, Program, ASR, M, Scene
 - Scene : Night, Portrait, Landscape, Text, Children, Close-up, Sunset, Dawn, Backlight, Fireworks, Beach & Snow
 - Shooting : Single, Continuous, AEB, Wise Shot (S730 only)
 - Self-timer : 2 sec., 10 sec., Double (10 sec., 2 sec.)
- Movie Clip :
 - With Audio or without Audio
(user selectable, recording time : memory capacity dependent)
 - ※ The maximum file size of continuous movie clip is 2GB.
 - Size : 640X480, 320X240
 - Frame rate : 30 fps, 15 fps
 - Optical zoom: Max. 3X

Storage






- Media :
 - Internal memory : Approx. 16MB flash memory
 - External memory : SDHC / MMC / SD card (Up to 4GB Guaranteed)
- File Format :
 - Still Image : JPEG (DCF), EXIF 2.2, DPOF 1.1, PictBridge 1.0
 - Movie Clip : AVI (MJPEG)
 - Audio : WAV

- Image Size

- S730







|  |  |  |  |  |  |
|---|---|---|---|--|---|
| 3072X2304 | 3072X2048 | 3072X1728 | 2592X1944 | 2048X1536 | 1024X768 |

- S630






|  |  |  |  |  | - |
|---|---|---|---|--|---|
| 2816X2112 | 2784X1856 | 2816X1584 | 2048X1536 | 1024X768 | - |

- Capacity (256 MB MMC)

- S730

| |  |  |  |  |  |  |
|------------|---|---|---|---|---|---|
| Super Fine | 67 | 80 | 95 | 95 | 150 | 558 |
| Fine | 128 | 157 | 183 | 183 | 284 | 710 |
| Normal | 197 | 223 | 269 | 269 | 400 | 822 |

- S630

| |  |  |  |  |  |
|------------|---|---|---|---|---|
| Super Fine | 80 | 95 | 124 | 150 | 558 |
| Fine | 157 | 183 | 233 | 284 | 710 |
| Normal | 223 | 269 | 306 | 400 | 822 |

※ These figures are measured under Samsung' s standard conditions and may vary depending on shooting conditions and camera settings.

I . SPECIFICATION

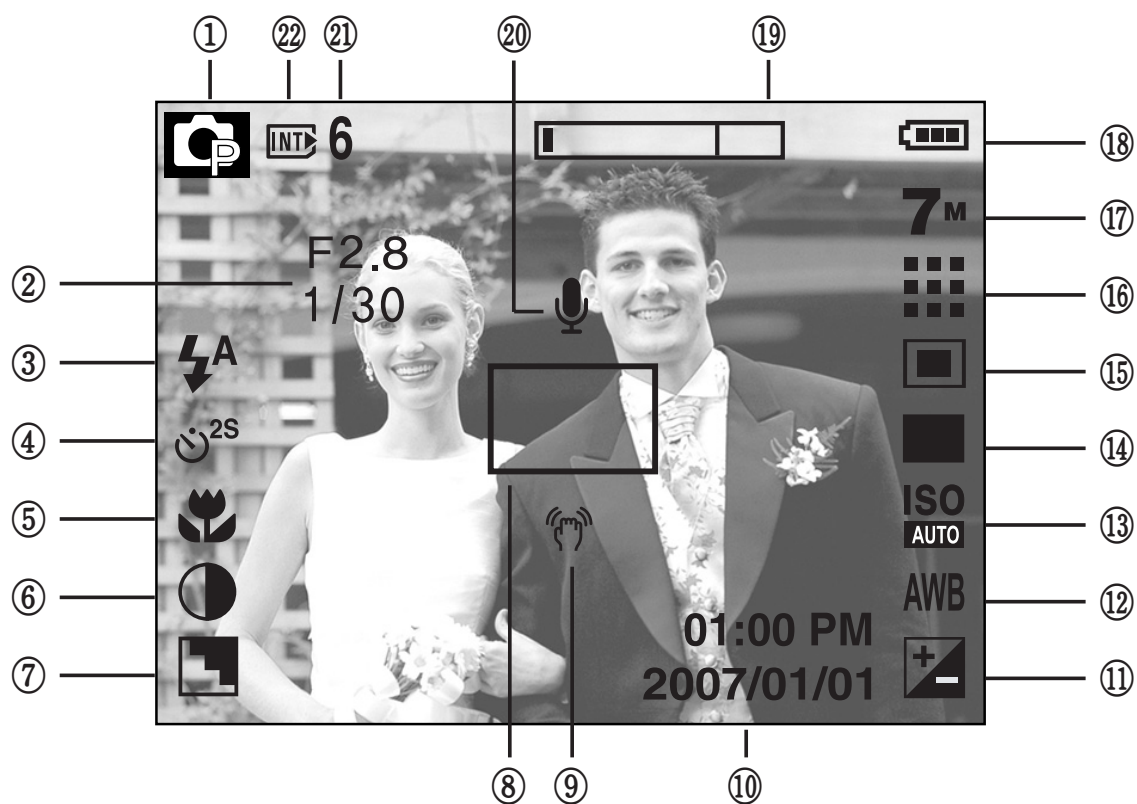
| | |
|------------------------------|--|
| "E" Button | - Effect : Color, Image Adjust, Fun (Highlight, Composite ,Photo Frame) - Editing : Resize, Rotate, Color, Special Color, Image Adjust (Brightness, Contrast, Saturation, Add Noise), Fun (Cartoon, Highlight, Composite, Photo Frame, Sticker) |
| Image Play | - Single image, Thumbnails, Slide show, Movie Clip |
| Interface | - Digital output connector : USB 2.0 High Speed - Audio : Mono - Video output : NTSC, PAL (user selectable) |
| Power Source | - Primary Battery : 2 x AA Alkaline - Rechargeable battery (Optional) : SNB-2512B KIT (2xAA 2500mAh Ni-MH Battery & Charger) ※ Included battery may vary depending on sales region. |
| Dimensions (WxHxD) | - 99.8x 62.8x25.7mm (excluding protrusions) |
| Weight | - Approx. 136g (without batteries and card) |
| Operating Temperature | - 0 ~ 40° C |
| Operating Humidity | - 5 ~ 85% |
| Software | - Camera Driver : Storage Driver : (Windows98/98SE/2000/ME/XP, Mac OS 9.2 ~ 10.3) - Special Features : Digimax Master, Adobe Reader |

2. System Requirements

| For Windows | For Macintosh |
|--|--|
| PC with processor better than Pentium II 450MHz (Pentium 700MHz recommended) | Power Mac G3 or later |
| Windows 98/98SE/2000/ME/XP | Mac OS 9.2~10.3 |
| Minimum 64MB RAM 200MB of available hard disk space | Minimum 64MB RAM 110MB of available hard-disk space |
| USB port | USB port |
| CD-ROM drive | CD-ROM drive |
| 1024x768 pixels, 16bit color display compatible monitor (24bit color display recommended) MicroSoft DirectX 9.0C | |

3. LCD monitor indicator

- Recording mode



[Image & Full Status]

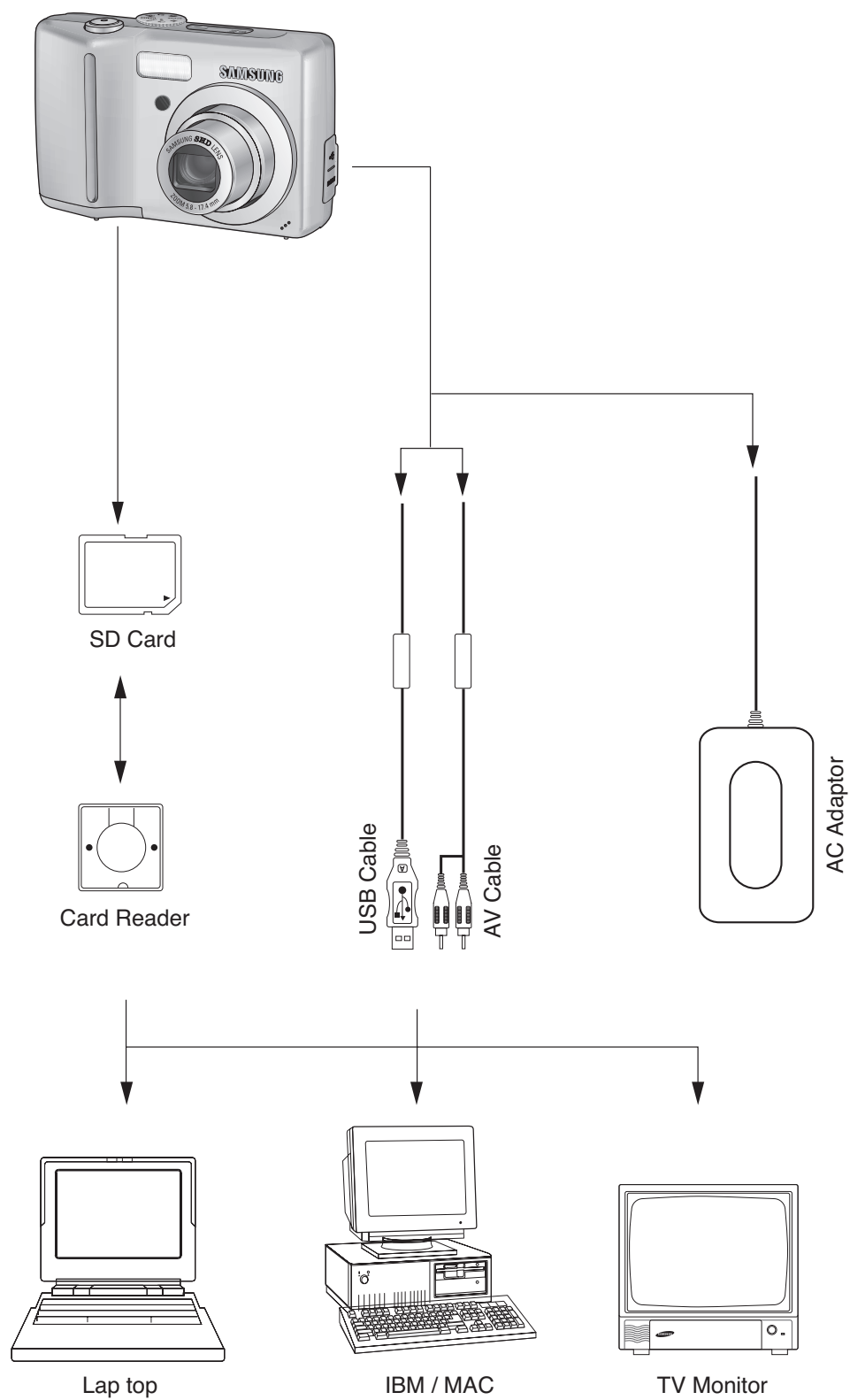
| No. | Description | | Icons |
|-----|--|------|--|
| 1 | Recording mode | | |
| 2 | Aperture Value/ Shutter Speed | | F2.8, 1/30 |
| 3 | Flash/ Without Sound | | |
| 4 | Self-timer | | |
| 5 | Macro | | |
| 6 | Contrast | | |
| 7 | Sharpness | | |
| 8 | Auto focus frame | | |
| 9 | Camera shake warning | | |
| 10 | Date/ Time | | 2007/01/01 01:00 PM |
| 11 | Exposure compensation | | |
| 12 | White Balance | | AWB |
| 13 | ISO | S730 | ISO AUTO ISO 80 ISO 100 ISO 200 ISO 400 ISO 800 ISO 1000 |
| | | S630 | ISO AUTO ISO 80 ISO 100 ISO 200 ISO 400 |
| 14 | Continuous shot | S730 | |
| | | S630 | |
| 15 | Metering | | |
| 16 | Image quality | | |
| 17 | Image size | S730 | 7M 6M 5M 5M 3M 1M 640 320 |
| | | S630 | 6M 5M 4M 3M 1M 640 320 |
| 18 | Battery | | |
| 19 | Optical/ Digital Zoom bar / Digital Zoom rate | | x5.0 |
| 20 | Voice memo | | |
| 21 | Number of available shots remaining | | 6 |
| | Movie / Voice recording time | | 00:00:00 |
| 22 | Card inserted indicator | | |

■ Play mode



| No. | Description | Icon |
|-----|-------------------------|---------------------|
| 1 | Play mode icon | |
| 2 | Voice Memo | |
| 3 | Protect | |
| 4 | DPOF | |
| 5 | Recording date | 2007/01/01 |
| 6 | Image size | 3072X2304 ~ 256X192 |
| 7 | Flash | ON/OFF |
| 8 | Shutter speed | 1 ~ 1/1500 |
| 9 | Aperture value | F2.8 ~ F12.4 |
| 10 | ISO | 80 ~ 1000 |
| 11 | Battery | |
| 12 | Folder name & File name | 100-0031 |
| 13 | Memory card indicator | |

4. CONNECTION DIAGRAM

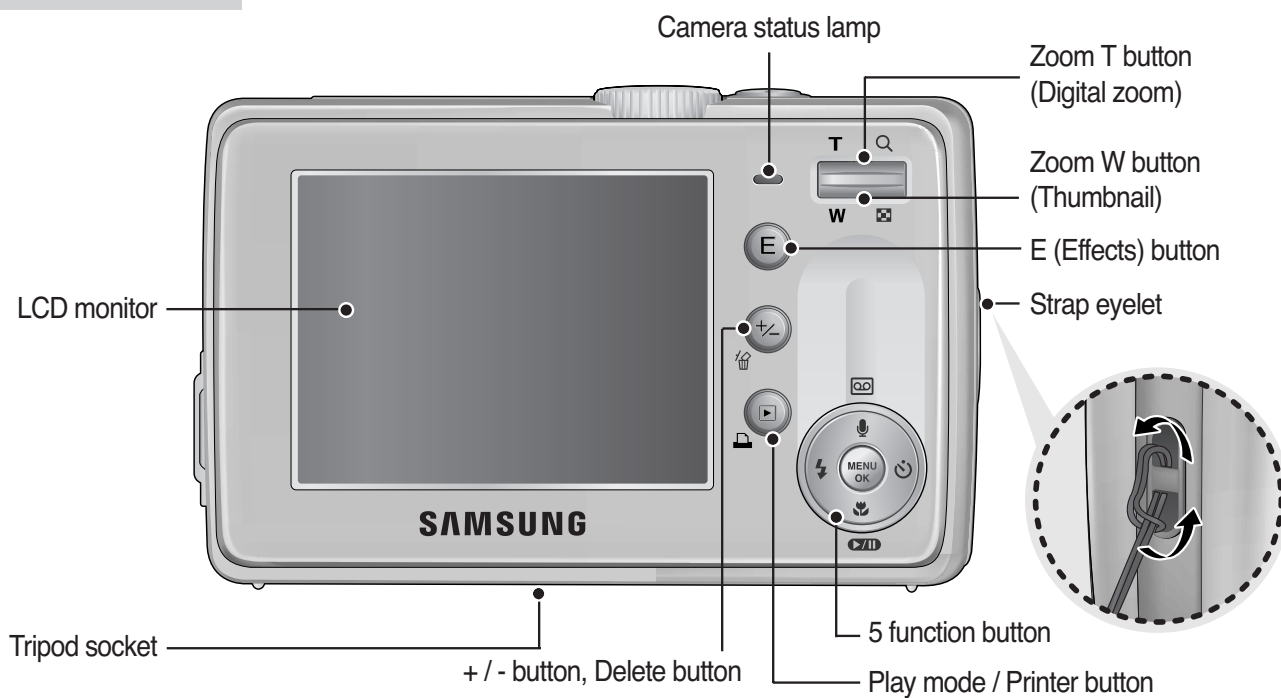


5. IDENTIFICATION OF FEATURES

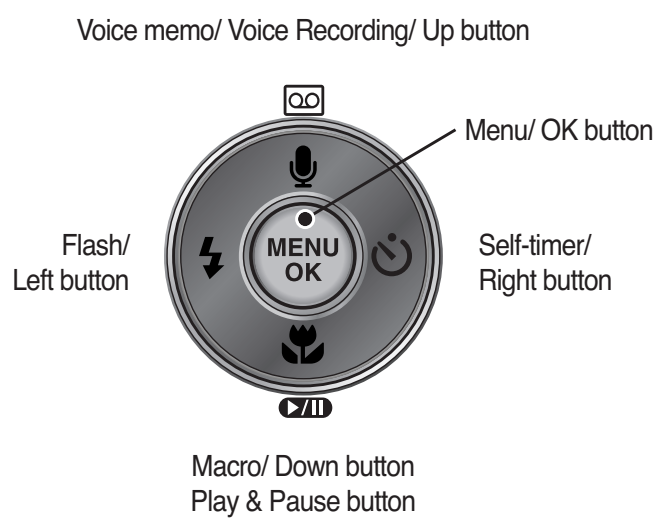
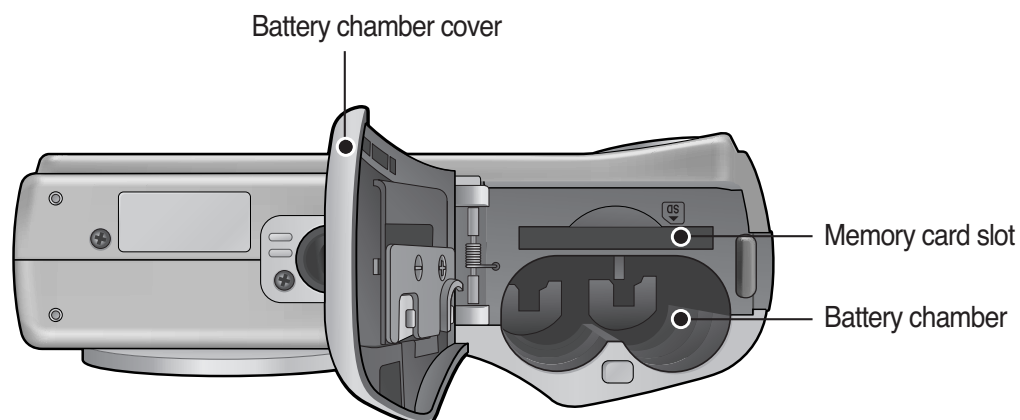
Front & Top



Back & Bottom



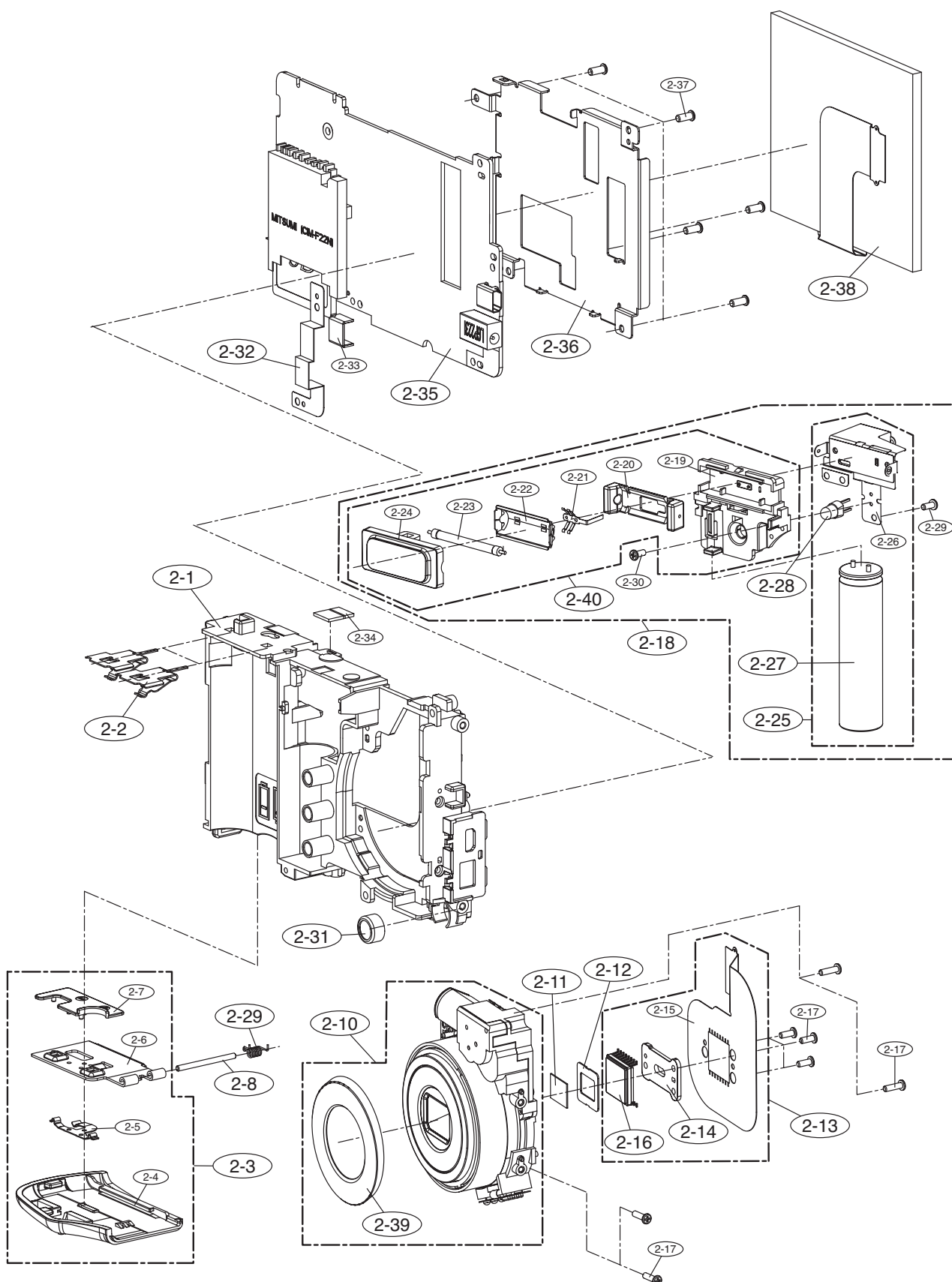
Bottom/ 5-function button



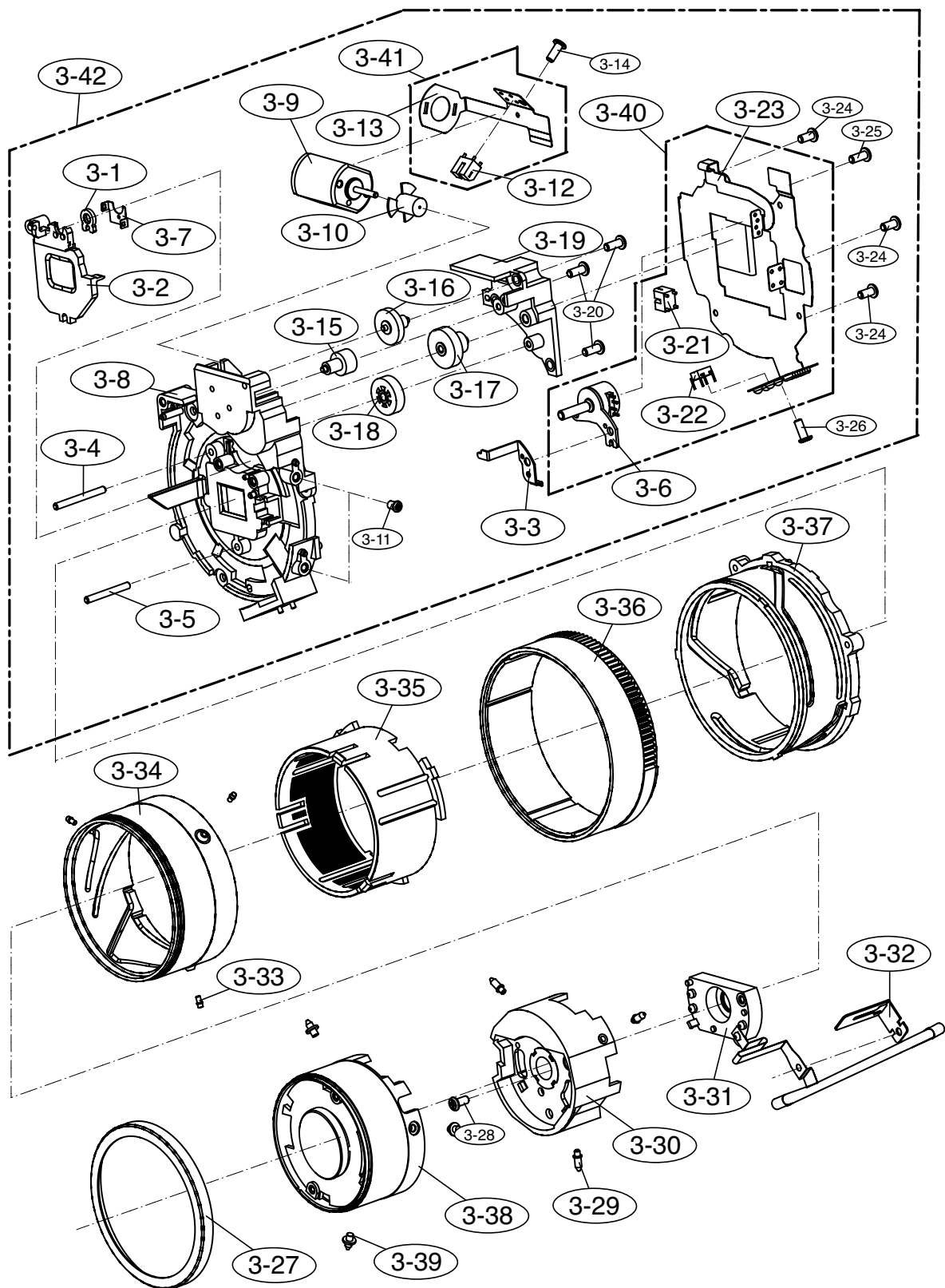
1. MAIN ASSEMBLY



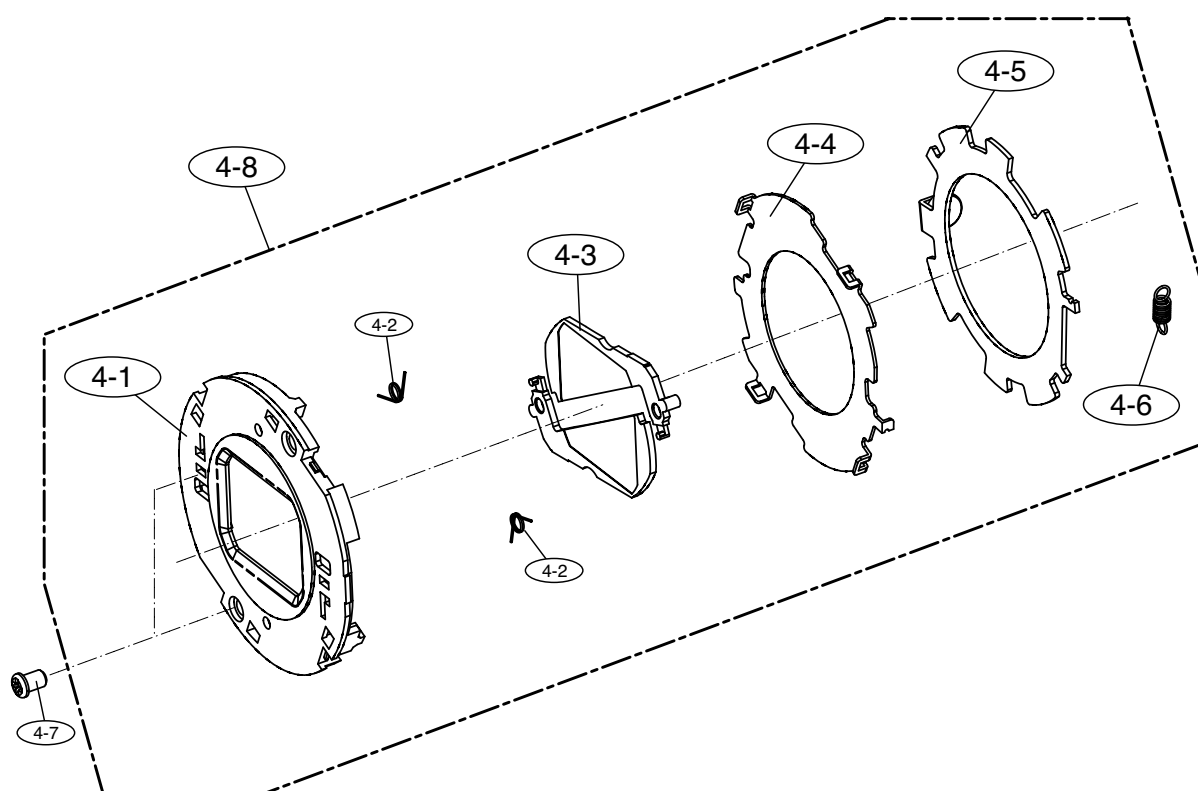
2. BODY ASSEMBLY



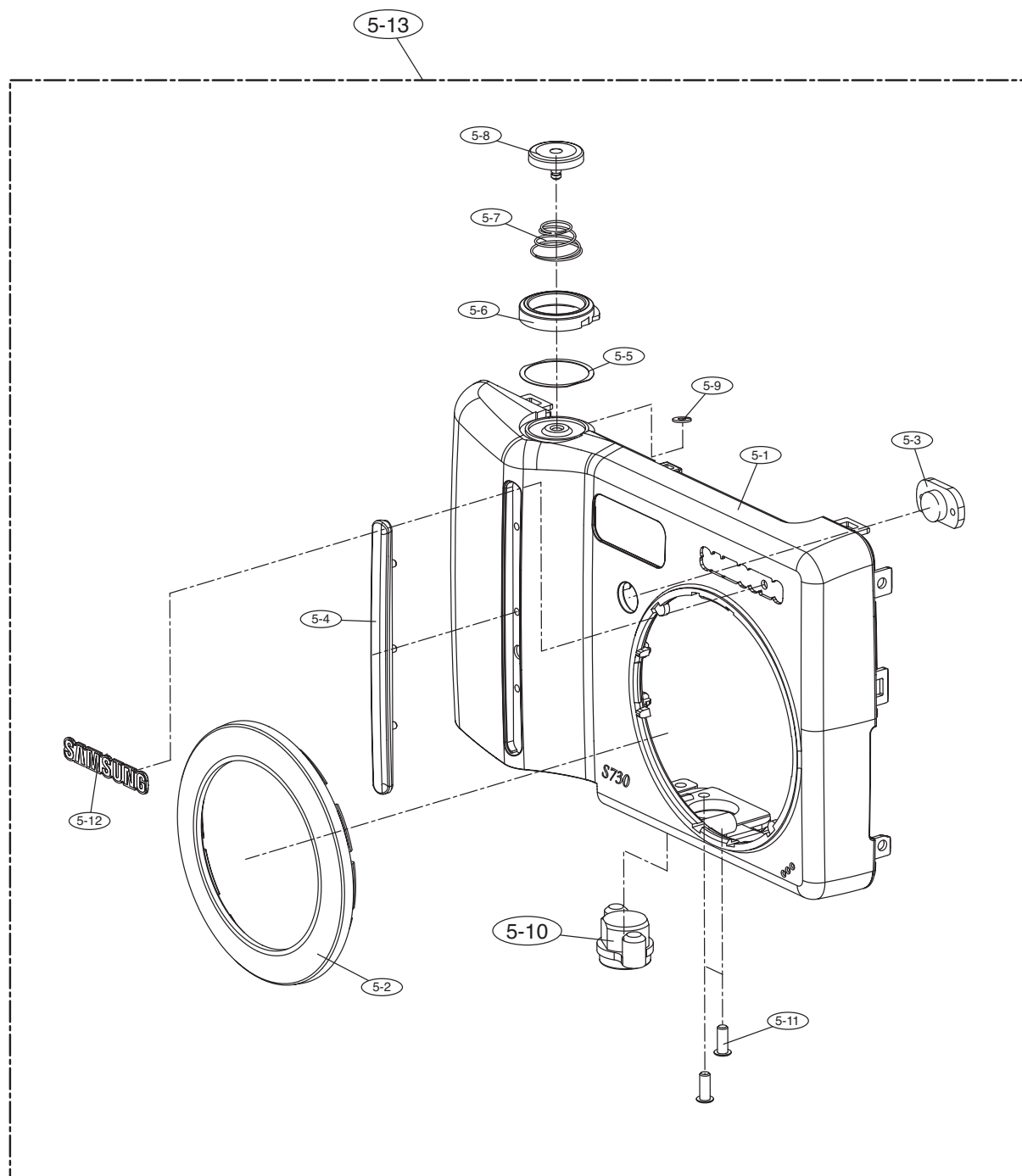
3. BARREL ASSEMBLY



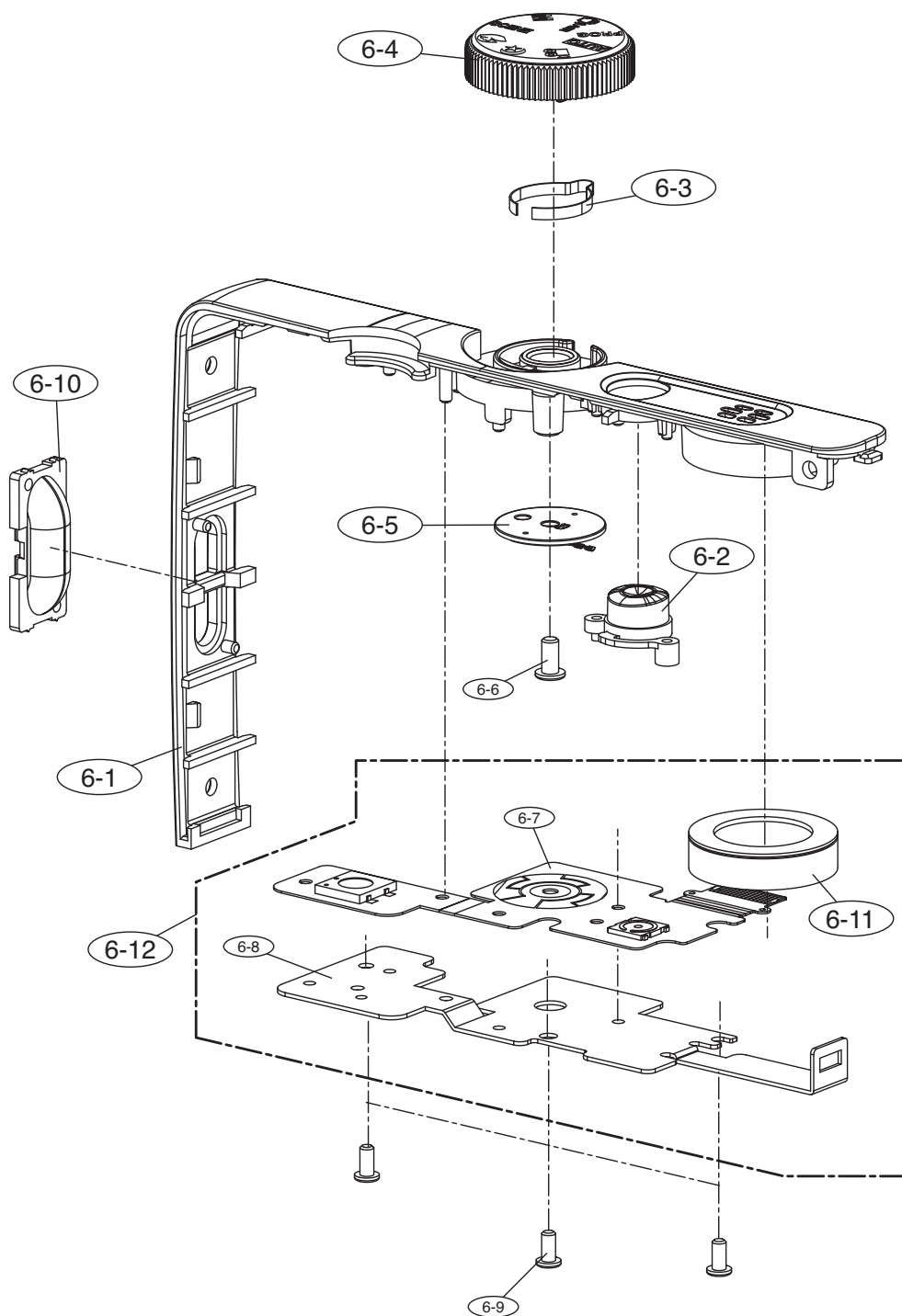
4. BARREL ASSEMBLY



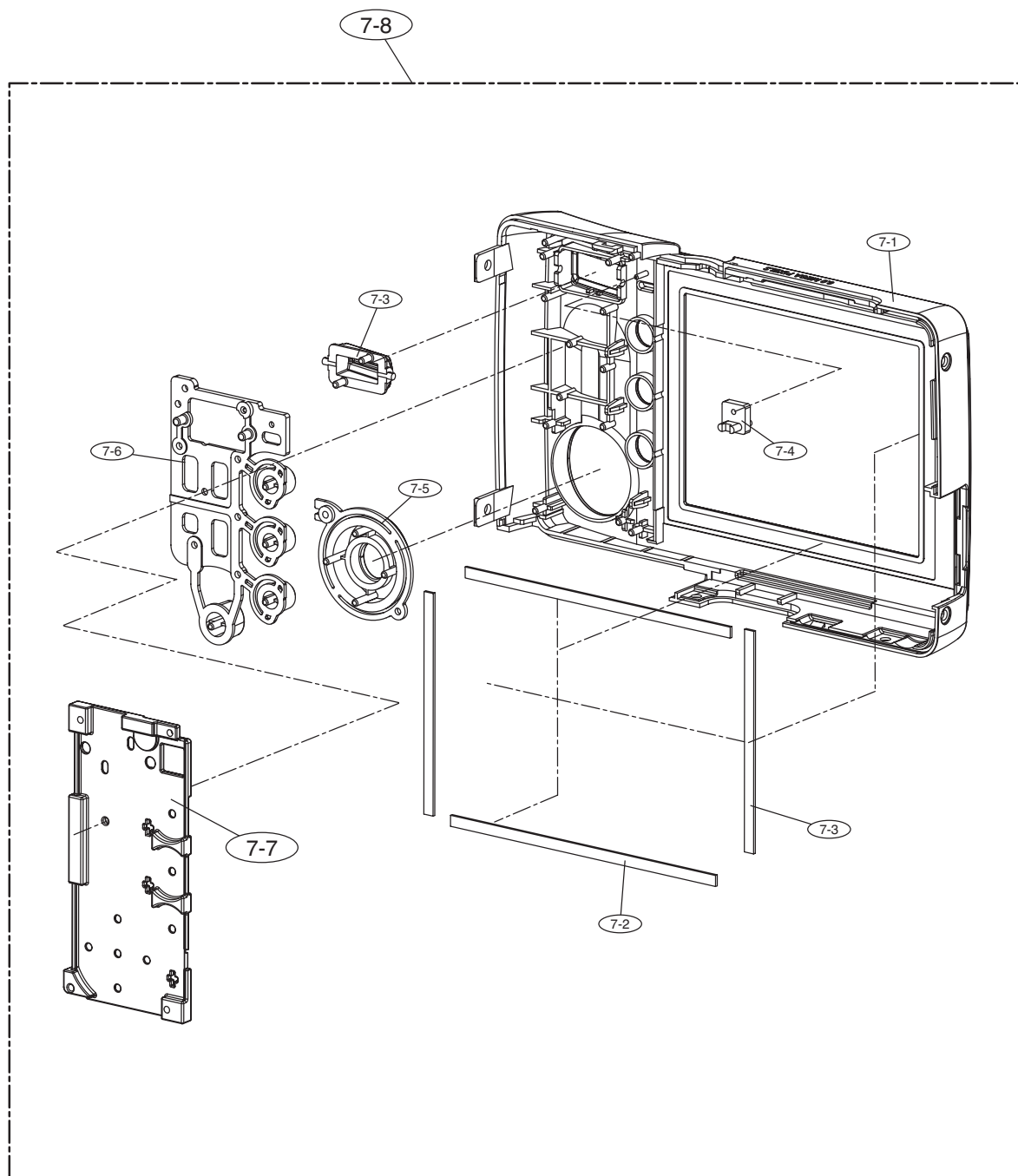
5. FRONT COVER ASSEMBLY



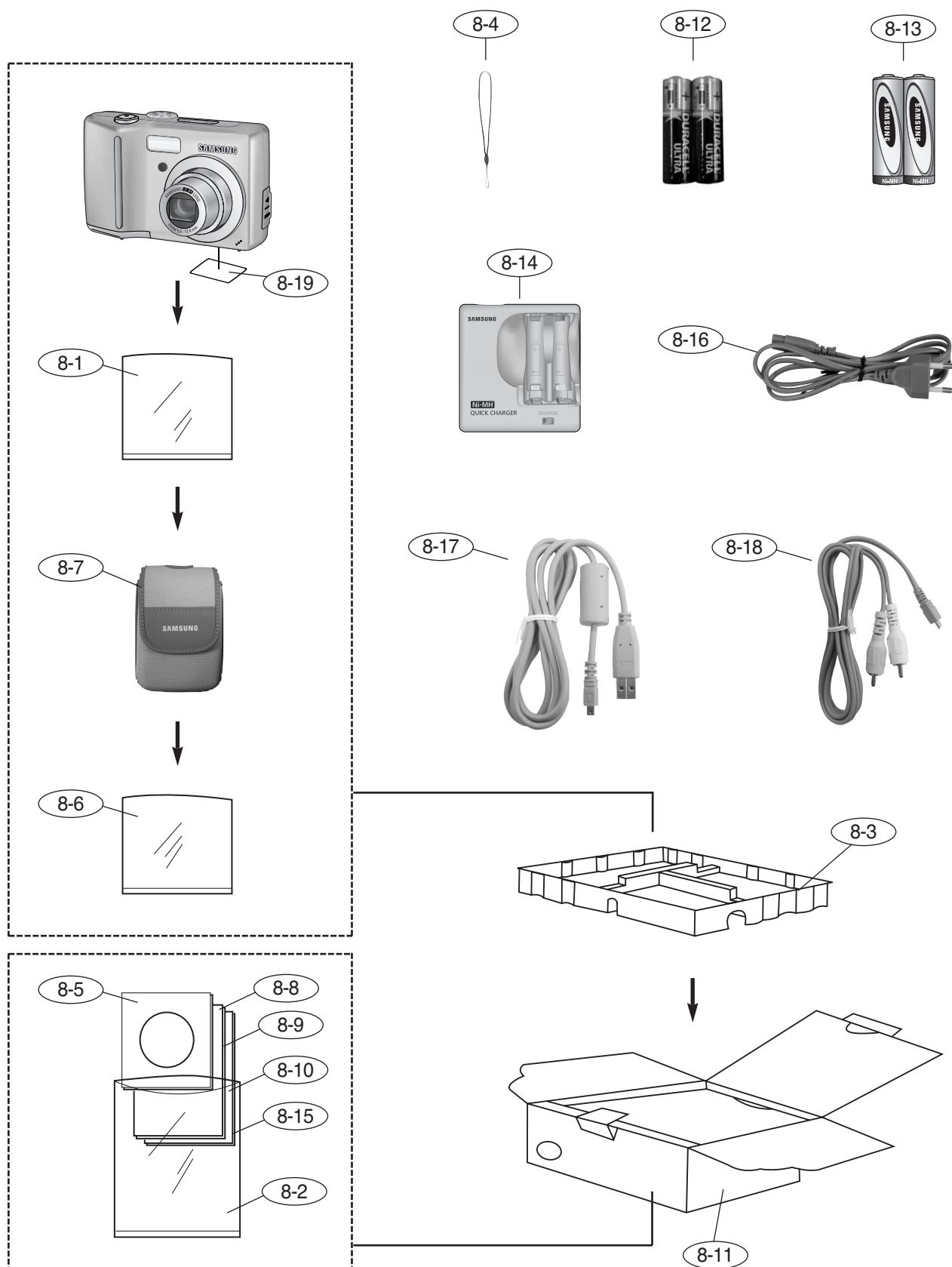
6. MIDDLE COVER ASSEMBLY



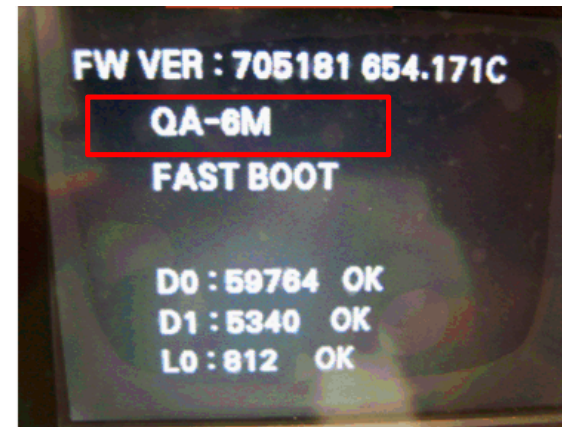
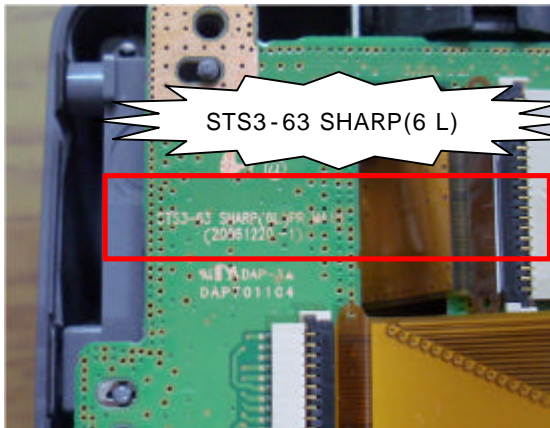
7. BACK COVER ASSMEBLY



8. PACKING ITEM

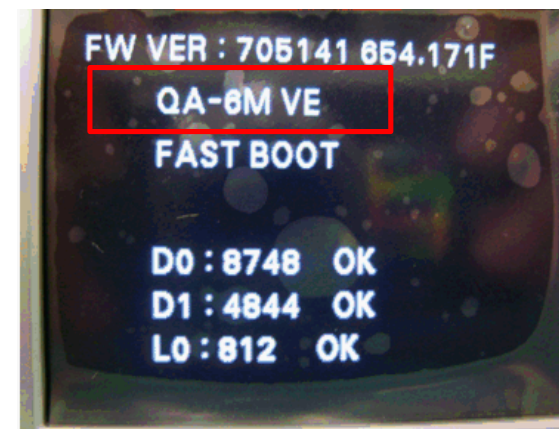
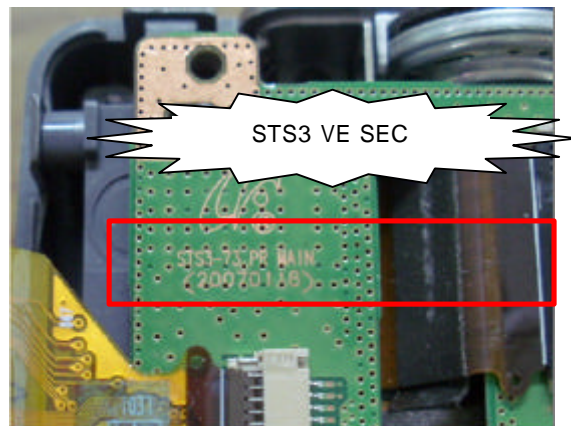


OLD S630(D60)



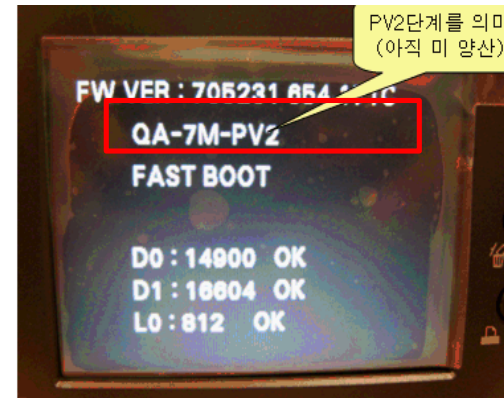
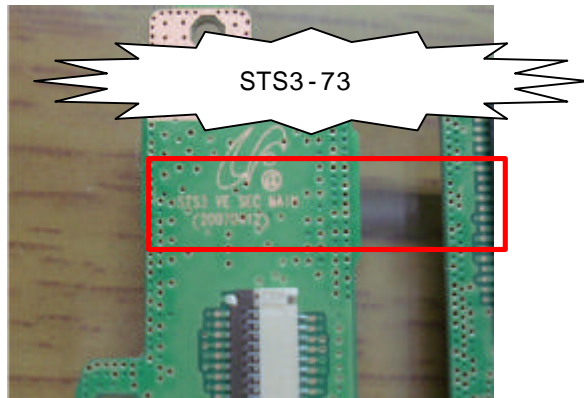
| PART | CODE |
|-----------|-------------|
| MAIN_PCB | AD92-00367A |
| LCD | AD81-00217A |
| LCD_FRAME | AD81-02817A |

NEW S630(D60)



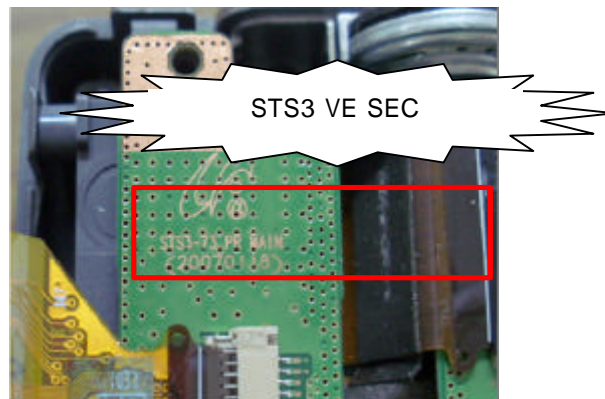
| PART | CODE |
|-----------|-------------|
| MAIN_PCB | AD92-00368A |
| LCD | AD07-00076A |
| LCD_FRAME | AD97-13896A |

OLD S730(D70)



| Parts Name | Parts Code |
|---------------|-------------|
| MAIN PCB | AD92-00333A |
| LCD | AD07-00069A |
| LCD_FRAME | AD61-03156A |
| CCD | 0605-001128 |
| CCD_FPCB ASSY | AD92-00363A |

NEW S750(S730VE,D70VE,D75)



| Parts Name | Parts Code |
|---------------|-------------|
| MAIN PCB | AD92-00334A |
| LCD | AD07-00076A |
| LCD_FRAME | AD97-13896A |
| CCD | 0605-001134 |
| CCD_FPCB ASSY | AD92-00364A |

| Fig.No | Old Parts Code | New Parts Code | Parts Name | Q'ty | Supply | Remarks |
|-----------------|----------------|----------------|---|------|--------|------------|
| 1.MAIN ASSEMBLY | | | | | | |
| 1-1 | Q7304000201A | AD63-01886A | DC USB COVER | 1 | O | BLACK |
| | Q7304000201B | AD63-01887A | DC USB COVER | 1 | O | SILVER |
| | Q7304000201C | AD63-01888A | DC USB COVER | 1 | O | RED |
| | Q7304000201D | AD63-01889A | DC USB COVER | 1 | O | PINK |
| | Q7304000201E | AD63-01890A | DC USB COVER | 1 | O | GREEN |
| | Q7304000201F | AD63-01891A | DC USB COVER S73 | 1 | O | GREEN |
| | Q7304000201G | AD63-01892A | DC USB COVER S73 | 1 | O | BLUE |
| | Q7304000201H | AD63-01893A | DC USB COVER S73 | 1 | O | FUNKY PINK |
| 1-2 | Q6003001602A | DNA | SC 1745 | 6 | X | |
| 2.BODY ASSEMBLY | | | | | | |
| 2-1 | Q7211086902A | AD62-00061A | BATTERY CHAMBER | 1 | O | |
| 2-2 | Q7011055603A | AD67-00621A | BATTERY CONTACT | 2 | O | |
| 2-3 | Q9007278001A | AD97-14492A | BATTERY COVER ASSY | 1 | O | BLACK |
| | Q9007278001B | AD97-14493A | BATTERY COVER ASSY | 1 | O | SILVER |
| | Q9007278001C | AD97-14494A | BATTERY COVER ASSY | 1 | O | RED |
| | Q9007278001D | AD97-14495A | BATTERY COVER ASSY | 1 | O | PINK |
| | Q9007278001E | AD97-14496A | BATTERY COVER ASSY | 1 | O | GREEN |
| | Q9007278001G | AD97-14498A | BATTERY COVER ASSY S73 | 1 | O | GREEN |
| | Q9007278001H | AD97-14499A | BATTERY COVER ASSY S73 | 1 | O | BLUE |
| | Q9007278001I | AD97-14500A | BATTERY COVER ASSY S73 | 1 | O | FUNKY PINK |
| | Q9007285601A | AD97-14672A | BATTERY COVER ASSY D60/D70/D60VE/D75 | 1 | O | BLACK |
| | Q9007285601B | AD97-14673A | BATTERY COVER ASSY D60/D70/D60VE/D75 | 1 | O | SILVER |
| 2-4 | Q7217394501A | AD81-04635A | BATTERY COVER | 1 | X | |
| 2-5 | Q7011055701A | DNA | BATTERY CONTACT C | 1 | X | |
| 2-6 | Q7017055101A | DNA | BATTERY PLATE | 1 | X | |
| 2-7 | Q7217368403A | AD61-03463A | BATTERY EP PLATE | 1 | X | |
| 2-8 | Q7004002501A | AD61-03137A | BATTERY HINGE | 1 | O | |
| 2-9 | Q6107074501A | 6107-001449 | BATTERY HINGE SPRING | 1 | O | |
| 2-10 | Q9002161801A | AD97-13555A | BARREL BLACK | 1 | O | BLACK |
| | Q9002146501B | AD97-13454A | BARREL SILVER | 1 | O | SILVER |
| 2-11 | Q2904004301A | AD63-01252A | IR CUT FILTER | 1 | O | |
| 2-12 | Q7309048601A | AD81-04785A | OLPF CUSHION S630/D60 | 1 | O | |
| | Q7309048602B | AD81-04786A | OLPF CUSHION S730/D70 | 1 | O | |
| 2-13 | Q9008099402A | AD92-00260A | CCD FPCB ASSY S630/D60 | 1 | O | |
| | Q9008116401A | AD92-00363A | CCD FPCB ASSY S730/D70 | 1 | O | |
| | Q9008116402A | AD92-00364A | CCD FPCB ASSY S730VE/S750/D70VE/D75/S73 | 1 | O | |
| 2-14 | Q7111002602A | AD61-03360A | CCD PLATE S630/D60 | 1 | O | |
| | Q71101002901A | AD61-03334A | CCD PLATE S730/D70 | 1 | O | |
| | Q7111002602A | AD61-03360A | CCD PLATE S730VE/S750/D70VE/D75/S73 | 1 | O | |
| 2-15 | Q4102005401A | DNA | CCD FPCB S630/D60 | 1 | X | |
| | Q4102015101A | DNA | CCD FPCB S730/D70 | 1 | X | |
| 2-16 | Q0604007301A | 0605-001131 | CCD S630/D60 | 1 | O | |
| | Q0604006901A | 0605-001128 | CCD S730/D70 | 1 | O | |
| | Q0604007901A | 0605-001134 | CCD S730VE/S750/D70VE/D75/S73 | 1 | O | |
| 2-17 | Q0961900301A | 6003-001630 | SC 1435 | 4 | X | |
| 2-18 | Q9004008901A | DNA | STROBO ASSY | 1 | O | |
| 2-19 | Q7211087001A | DNA | REFLECTOR HOLDER | 1 | X | |
| 2-20 | Q7309048001A | DNA | XE TUBE RUBBER | 1 | X | |
| 2-21 | Q7011056002A | AD67-00623A | TRIG CONTACT | 1 | X | |
| 2-22 | Q7014004801A | AD67-00634A | GM REFLECTOR D3 | 1 | X | |
| 2-23 | Q0611003101A | AD47-00012A | REF XE TUBE D3 | 1 | X | |
| 2-24 | Q7214090701A | AD67-00757A | FRESNEL LENS | 1 | X | |
| 2-25 | Q9008113701A | DNA | STROBO FPCB ASSY | 1 | O | |
| 2-26 | Q4102014801A | DNA | STROBO FPCB | 1 | X | |
| 2-27 | Q2401008501A | DNA | MAIN CONDENCER | 1 | O | |
| 2-28 | Q0408001101A | DNA | AF LED LAMP | 1 | O | |
| 2-29 | Q6003027501A | 6003-001666 | SC 1435 | 1 | X | |
| 2-30 | Q6003027501A | 6003-001666 | SC 1435 | 1 | X | |
| 2-31 | Q3003001201A | 3003-001123 | MIC | 1 | O | |
| 2-32 | Q7011058901A | AD61-03155A | DC USB PLATE | 1 | O | |
| 2-33 | Q7409295901A | DNA | DC USB SHIELD FORM | 1 | X | |

| | | | | | | |
|-------------------|--------------|-------------|---|---|---|--|
| 2-34 | Q7409261901A | DNA | TOP_PLATE_SHIELD_FORM | 1 | X | |
| 2-35 | Q9008116801A | AD92-00367A | MAIN_PCB_S630/D60 | 1 | O | |
| | Q9008113301A | AD92-00333A | MAIN_PCB_S730/D70 | 1 | O | |
| | Q9008116802A | AD92-00368A | MAIN_PCB_S630VE/D60VE | 1 | O | |
| | Q9008113302A | AD92-00334A | MAIN_PCB_S730VE/S750/D75/D70VE/S73 | 1 | O | |
| 2-36 | Q7011061701A | AD81-02817A | LCD_FRAME_S630 | 1 | O | |
| | Q7011059001A | AD61-03156A | LCD_FRAME_S730 | 1 | O | |
| | Q9001130001A | AD97-13896A | LCD_FRAME_SEC_S630VE/S730VE/D70VE/D60VE/ | 1 | O | |
| 2-37 | Q9761174007 | DNA | SC_1740 | 5 | X | |
| 2-38 | Q0704014101A | AD81-00217A | LCD_S630/D60 | 1 | O | |
| | Q0704013601A | AD07-00069A | LCD_S730/D70 | 1 | O | |
| | Q0704014501A | AD07-00076A | LCD_S630VE/S730VE/D60VE/D70VE/S750/D75/S7 | 1 | O | |
| 2-39 | Q7012094701A | AD81-02888A | FRONT_DECORING_BLACK | 1 | O | |
| | Q7012087203A | AD64-01754A | FRONT_DECORING_SILVER | 1 | O | |
| 2-40 | Q9004089301A | DNA | REFLECTOR_ASSY | 1 | O | |
| 3.BARREL ASSEMBLY | | | | | | |
| 3-1 | Q7012083901B | AD61-03232A | AF_CLIP | 1 | O | |
| 3-2 | Q9002138701A | AD97-13414A | 3rd_LENS_ASS'Y | 1 | O | |
| 3-3 | Q7012084602A | AD61-03234A | AF_GUIDE HOLDER | 1 | O | |
| 3-4 | Q7411119702A | AD66-00526A | AF_GUIDE_BAR-A | 1 | O | |
| 3-5 | Q7411119801A | AD66-00527A | AF_GUIDE_BAR-B | 1 | O | |
| 3-6 | Q9002137701A | AD97-13406A | AF_MOTOR_ASS'Y | 1 | O | |
| 3-7 | Q7012085702A | AD61-03235A | AF_CLIP HOLDER | 1 | O | |
| 3-8 | Q7212187405A | AD81-03650A | LENS_BASE | 1 | O | |
| 3-9 | Q3107002401A | AD31-00067A | ZOOM_MOTOR | 1 | O | |
| 3-10 | Q7212187803A | AD66-00498A | ZOOM_MOTOR_GEAR | 1 | O | |
| 3-11 | Q9611142007A | DNA | SCREW | 1 | X | |
| 3-12 | Q0608001001A | 0604-001374 | PHOTO_INTERRUPTER | 1 | O | |
| 3-13 | Q4101033601A | AD41-00956A | ZOOM_MOTOR_PCB | 1 | O | |
| 3-14 | Q0961900101A | 6003-001629 | SCREW | 1 | X | |
| 3-15 | Q7212187901A | AD66-00499A | ZOOM_GEAR-A | 1 | O | |
| 3-16 | Q7212188001A | AD66-00500A | ZOOM_GEAR-B | 1 | O | |
| 3-17 | Q7212188101A | AD66-00501A | ZOOM_GEAR-C | 1 | O | |
| 3-18 | Q7212188201A | AD66-00502A | ZOOM_GEAR-D | 1 | O | |
| 3-19 | Q7212187702A | AD63-01513A | ZOOM_COVER | 1 | O | |
| 3-20 | Q6003000201A | 6003-001633 | SCREW | 3 | X | |
| 3-21 | Q0608001001A | 0604-001374 | PHOTO_INTERRUPTER | 1 | O | |
| 3-22 | Q0608000701A | 0604-001373 | PHOTO_REFLECTOR | 1 | O | |
| 3-23 | Q4101035001A | AD41-00959A | MAIN_F_PCB | 1 | O | |
| 3-24 | Q0961900301A | 6003-001630 | SCREW | 3 | X | |
| 3-25 | Q6003000201A | 6003-001633 | SCREW | 1 | X | |
| 3-26 | Q0994913101A | 6003-001631 | SCREW | 1 | X | |
| 3-27 | Q7012094401A | AD64-01764A | SUS_CAM_DECORING_BLACK | 1 | O | |
| | Q7012086105A | AD64-01749A | SUS_CAM_DECORING_SILVER | 1 | O | |
| 3-28 | Q0961900101A | 6003-001629 | SCREW | 1 | X | |
| 3-29 | Q7411119604A | AD81-05340A | 2nd_MOVE_PIN | 3 | O | |
| 3-30 | Q9002139001A | AD97-13415A | 2nd_LENS_ASSY | 1 | O | |
| 3-31 | Q9005018002A | AD97-13734A | SHUTTER_ASSY | 1 | O | |
| 3-32 | Q7012083802A | AD61-03231A | F_PCB_GUIDE | 1 | O | |
| 3-33 | Q7411120101A | AD66-00528A | OCB_PIN | 3 | O | |
| 3-34 | Q7212201601A | AD67-00699A | CAM_BARREL_BLACK | 1 | O | |
| | Q7212191102A | AD67-00670A | CAM_BARREL_SILVER | 1 | O | |
| 3-35 | Q7212187001A | AD81-03649A | GUIDE_PLATE | 1 | O | |
| 3-36 | Q7212187302A | AD67-00658A | OUTER_GUIDE_BARREL | 1 | O | |
| 3-37 | Q7212187202A | AD67-00657A | OUTER_CAM_BARREL | 1 | O | |
| 3-38 | Q9002161201A | AD97-13550A | 1st_LENS_ASSY_BLACK | 1 | O | |
| | Q9002147001A | AD97-13459A | 1st_LENS_ASSY_SILVER | 1 | O | |
| 3-39 | Q7411119504A | AD66-00524A | 1st_MOVE_PIN | 3 | O | |
| 3-40 | Q9008095201A | AD92-00248A | MAIN_FPCB_ASSY | 1 | O | |
| 3-41 | Q9008086201A | AD92-00215A | ZOOM_MOTOR_F_PCB_ASSY | 1 | O | |
| 3-42 | Q9002146601A | AD97-13455A | LENS_BASE_ASSY | 1 | O | |
| 4.BARREL ASSEMBLY | | | | | | |
| 4-1 | Q7212191201A | AD64-01836A | FRONT_PANEL | 1 | O | |
| 4-2 | Q6107064103A | 6107-001416 | BARRIER_CLOSE_SPRING | 2 | O | |
| 4-3 | Q7212187601A | AD63-01512A | BARRIER-A | 2 | O | |
| 4-4 | Q7012084201A | AD61-03233A | BARRIER_BASE | 1 | O | |

| | | | | | | |
|-------------------------|--------------|-------------|---------------------------------|---|---|-----------------|
| 4-5 | Q9002139601A | AD97-13418A | BARRIER LEVER ASS'Y | 1 | O | |
| 4-6 | Q6107064202A | AD81-07593A | BARRIER OPEN SPRING | 1 | O | |
| 4-7 | Q6003047001A | DNA | BARRIER SCREW | 2 | X | |
| 4-8 | Q9002146701A | AD97-13456A | BARRIER ASSY | 1 | O | |
| 5.FRONT COVER ASSEMBLY | | | | | | |
| 5-1 | Q7217395801A | DNA | FRONT_COVER_S630 | 1 | X | |
| | Q7217393601A | DNA | FRONT_COVER_S730 | 1 | X | |
| | Q7217404001A | DNA | FRONT_COVER_D60 | 1 | X | |
| | Q7217403901A | DNA | FRONT_COVER_D60 | 1 | X | |
| 5-2 | Q7117017401A | DNA | FRONT_DECO_S630/S730 | 1 | X | |
| | Q7104002601A | DNA | FRONT_DECO_D60/D70 | 1 | X | |
| 5-3 | Q7217372502A | AD64-01850A | AF_LED_WINDOW | 1 | X | |
| 5-4 | Q7217395701A | AD64-01908A | GRIP_DECO | 1 | X | |
| 5-5 | Q7409261801A | DNA | RELEASE_DECO_TAPE | 1 | X | |
| 5-6 | Q7217396701A | DNA | RELEASE_DECO | 1 | X | |
| 5-7 | Q6107070901A | AD81-07604A | RELEASE_SPRING | 1 | X | |
| 5-8 | Q7217395201A | AD64-01906A | RELEASE_BUTTON | 1 | X | |
| 5-9 | Q7409111601A | DNA | RELEASE_WASHER | 1 | X | |
| 5-10 | Q7211059101A | AD61-03371A | TRIPOD_CONNECTOR | 1 | O | |
| 5-11 | Q6003001602A | DNA | SC_1745 | 2 | X | |
| 5-12 | Q7017052401A | AD61-03292A | LOGO_PLATE | 1 | X | |
| 5-13 | Q9007279501A | AD97-14551A | FRONT_COVER_SUB_ASSY_S630 | 1 | O | BLACK |
| | Q9007279501B | AD97-14552A | FRONT_COVER_SUB_ASSY_S630 | 1 | O | SILVER |
| | Q9007279501E | AD97-14555A | FRONT_COVER_SUB_ASSY_S630 | 1 | O | RED |
| | Q9007279501F | AD97-14556A | FRONT_COVER_SUB_ASSY_S630 | 1 | O | PINK |
| | Q9007279501G | AD97-14557A | FRONT_COVER_SUB_ASSY_S630 | 1 | O | GREEN |
| | Q9007279501C | AD97-14553A | FRONT_COVER_SUB_ASSY_KENOX_S630 | 1 | O | BLACK |
| | Q9007279501D | AD97-14554A | FRONT_COVER_SUB_ASSY_KENOX_S630 | 1 | O | SILVER |
| | Q9007279001A | AD97-14516A | FRONT_COVER_SUB_ASSY_S730 | 1 | O | BLACK |
| | Q9007279001B | AD97-14517A | FRONT_COVER_SUB_ASSY_S730 | 1 | O | SILVER |
| | Q9007279001C | AD97-14518A | FRONT_COVER_SUB_ASSY_KENOX_S730 | 1 | O | BLACK |
| | Q9007279001D | AD97-14519A | FRONT_COVER_SUB_ASSY_KENOX_S730 | 1 | O | SILVER |
| | Q9007279001E | AD97-14520A | FRONT_COVER_SUB_ASSY_S730 | 1 | O | RED |
| | Q9007279001F | AD97-14521A | FRONT_COVER_SUB_ASSY_S730 | 1 | O | PINK |
| | Q9007285501A | AD97-14668A | FRONT_COVER_SUB_ASSY_D70 | 1 | O | BLACK |
| | Q9007285501B | AD97-14669A | FRONT_COVER_SUB_ASSY_D70 | 1 | O | SILVER |
| | Q9007285501C | AD97-14670A | FRONT_COVER_SUB_ASSY_KENOX_D70 | 1 | O | BLACK |
| | Q9007285501D | AD97-14671A | FRONT_COVER_SUB_ASSY_KENOX_D70 | 1 | O | SILVER |
| | Q9007285901A | AD97-14678A | FRONT_COVER_SUB_ASSY_D60 | 1 | O | BLACK |
| | Q9007285901B | AD97-14679A | FRONT_COVER_SUB_ASSY_D60 | 1 | O | SILVER |
| | Q9007285901C | AD97-14680A | FRONT_COVER_SUB_ASSY_KENOX_D60 | 1 | O | BLACK |
| | Q9007285901D | AD97-14681A | FRONT_COVER_SUB_ASSY_KENOX_D60 | 1 | O | SILVER |
| | Q9007295901A | AD97-14815A | FRONT_COVER_SUB_ASSY_S750 | 1 | O | SILVER |
| | Q9007295901B | AD97-14816A | FRONT_COVER_SUB_ASSY_S750 | 1 | O | BLACK |
| | Q9007295901C | AD97-14817A | FRONT_COVER_SUB_ASSY_S750 | 1 | O | RED |
| | Q9007295901D | AD97-14818A | FRONT_COVER_SUB_ASSY_S750 | 1 | O | PINK |
| | Q9007296101A | AD97-14819A | FRONT_COVER_SUB_ASSY_D75 | 1 | O | SILVER |
| | Q9007296201A | AD97-14821A | FRONT_COVER_SUB_ASSY_D75 | 1 | O | BLACK |
| | Q9007279501K | AD97-14561A | FRONT_COVER_SUB_ASSY_S73 | 1 | O | SILVER |
| | Q9007279501L | AD97-14562A | FRONT_COVER_SUB_ASSY_S73 | 1 | O | GREEN |
| | Q9007279501M | AD97-14563A | FRONT_COVER_SUB_ASSY_S73 | 1 | O | BLUE |
| | Q9007279501N | AD97-14564A | FRONT_COVER_SUB_ASSY_S73 | 1 | O | FUNKY PINK |
| | Q9007279501O | AD97-14565A | FRONT_COVER_SUB_ASSY_S73 | 1 | O | BLACK |
| | Q9007279501P | AD97-14566A | FRONT_COVER_SUB_ASSY_S73 | 1 | O | PINK |
| | Q9007279501Q | AD97-14567A | FRONT_COVER_SUB_ASSY_S73 | 1 | O | RED |
| 6.MIDDLE COVER ASSEMBLY | | | | | | |
| 6-1 | Q7217393901A | AD63-01610A | MIDDLE_COVER | 1 | O | BLACK |
| | Q7217393901B | AD63-01611A | MIDDLE_COVER | 1 | O | SILVER/RED |
| | Q7217393901C | AD63-01612A | MIDDLE_COVER | 1 | O | PINK/GREEN/BLUE |
| 6-2 | Q7217395001A | AD64-01903A | POWER_BUTTON | 1 | O | BLACK |
| | Q7217395001B | AD64-01904A | POWER_BUTTON | 1 | O | SILVER/RED |
| | Q7217395001C | AD64-01905A | POWER_BUTTON | 1 | O | PINK/GREEN |
| 6-3 | Q7017039003A | AD61-03284A | MODE_CLICK_SPRING | 1 | O | |
| 6-4 | Q7217394701A | AD64-01897A | MODE_DIAL | 1 | O | BLACK |
| | Q7217394702B | AD64-01899A | MODE_DIAL | 1 | O | SILVER/RED |
| | Q7217394701C | AD64-01898A | MODE_DIAL | 1 | O | PINK/GREEN |

| | | | | | | |
|-----------------------|--------------|-------------|---------------------------------------|---|---|------------|
| 6-5 | Q9007272001A | AD97-14371A | MODE_CONTACT_ASSY_SL73 | 1 | O | |
| 6-6 | Q9761173007A | DNA | SC_1730 | 1 | X | |
| 6-7 | Q9008113401A | DNA | MODE_FPCB_ASSY | 1 | X | |
| 6-8 | Q7011059101A | DNA | TOP_KEY_PLATE | 1 | X | |
| 6-9 | Q0961900301A | 6003-001630 | SC_1430 | 3 | X | |
| 6-10 | Q7217395101A | AD61-03470A | STRAP_INNER HOLDER | 1 | O | |
| 6-11 | Q3001001302A | AD81-00527A | SPEAKER | 1 | O | |
| 6-12 | Q9007278201A | AD97-14502A | TOP_KEY_ASSY | 1 | O | |
| 7.BACK COVER ASSMEBLY | | | | | | |
| 7-1 | Q7217397201A | DNA | BACK_COVER_S630/D60 | 1 | X | |
| | Q7217393701A | DNA | BACK_COVER_S730/D70 | 1 | X | |
| 7-2 | Q7409275201A | AD63-02201A | LCD_SPONGE_A | 2 | X | |
| 7-3 | Q7409275302A | AD63-02202A | LCD_SPONGE_B | 2 | X | |
| 7-4 | Q7211087801A | DNA | ZOOM_LEVER | 1 | X | |
| 7-5 | Q7217394901A | AD64-01900A | NAVI_KEY | 1 | X | |
| 7-6 | Q7217394601A | AD64-01893A | FUNCTION_BUTTON | 1 | x | |
| 7-7 | Q7304000301A | AD61-03527A | RUBBER_KEY_PLATE | 1 | O | |
| 7-8 | Q9007279401A | AD97-14542A | BACK_COVER_ASSY_S630/D60/S630VE/D60VE | 1 | O | BLACK |
| | Q9007279401B | AD97-14543A | BACK_COVER_ASSY_S630/D60/S630VE/D60VE | 1 | O | SILVER |
| | Q9007279401C | AD97-14544A | BACK_COVER_ASSY_S630/S630VE | 1 | O | RED |
| | Q9007279401D | AD97-14545A | BACK_COVER_ASSY_S630/S630VE | 1 | O | PINK |
| | Q9007279401E | AD97-14546A | BACK_COVER_ASSY_S630/S630VE | 1 | O | GREEN |
| | Q9007277901A | AD97-14488A | BACK_COVER_ASSY_S730/S750/D70/D75/S73 | 1 | O | BLACK |
| | Q9007277901B | AD97-14489A | BACK_COVER_ASSY_S730/S750/D70/D75/S73 | 1 | O | SILVER |
| | Q9007277901C | AD97-14490A | BACK_COVER_ASSY_S730/S750/S730VE/S73 | 1 | O | RED |
| | Q9007277901D | AD97-14491A | BACK_COVER_ASSY_S730/S750/S730VE/S73 | 1 | O | PINK |
| | Q9007279401I | AD97-14550A | BACK_COVER_ASS_S73 | 1 | O | FUNKY PINK |
| | Q9007279401H | AD97-14549A | BACK_COVER_ASS_S73 | | | BLUE |
| | Q9007279401G | AD97-14548A | BACK_COVER_ASS_S73 | | | GREEN |
| 8.PACKING ITEM | | | | | | |
| 8-1 | QP960210101A | DNA | PE BAG (FOR CAMERA) | 1 | X | |
| 8-2 | Q6909018202A | 6902-000921 | PE BAG (FOR ACCESSORY) | 1 | O | |
| 8-3 | Q6901258701A | AD81-02533A | PULP_MOLD_Digimax_EXP | 1 | O | |
| | Q6901258401A | AD81-02532A | PULP_MOLD_KENOX_KOR | 1 | O | |
| 8-4 | Q7409271401A | AD63-02596A | STRAP_KENOX_S730_KOR/EXP | 1 | O | |
| 8-5 | Q4609017401A | AD81-01039A | DRIVER + DIGIMAX MASTER_S630/S730 | 1 | O | |
| | Q4609018101A | AD46-00137A | DRIVER_DIGIMAX_MASTER_D70_D60 | 1 | O | |
| 8-6 | Q6909019801A | DNA | AIR BAG_Samsung_S730(FOR BODY) | 1 | X | |
| 8-6 | Q6904031201A | AD81-02621A | POUCH_KOR_EXP_BLACK | 1 | O | |
| | Q6904031301A | AD81-02622A | POUCH_KOR_EXP_SILVER | 1 | O | |
| 8-7 | Q6806358201A | DNA | U MANUAL_KENOX_S730_S630_KOR | 1 | X | |
| | Q6806363901A | DNA | U MANUAL_Samsung_S730_ENG | 1 | X | |
| | Q6806364001A | DNA | U MANUAL_Samsung_S730_GER | 1 | X | |
| | Q6806364101A | DNA | U MANUAL_Samsung_S730_FRA | 1 | X | |
| | Q6806364201A | DNA | U MANUAL_Samsung_S730_SPA | 1 | X | |
| | Q6806364301A | DNA | U MANUAL_Samsung_S730_ITA | 1 | X | |
| | Q6806364401A | DNA | U MANUAL_Samsung_S730_CHI(T) | 1 | X | |
| | Q6806364501A | DNA | U MANUAL_Samsung_S730_DUT | 1 | X | |
| | Q6806364601A | DNA | U MANUAL_Samsung_S730_POR | 1 | X | |
| | Q6806364701A | DNA | U MANUAL_Samsung_S730_SWE | 1 | X | |
| | Q6806364801A | DNA | U MANUAL_Samsung_S730_DEN | 1 | X | |
| | Q6806364901A | DNA | U MANUAL_Samsung_S730_FIN | 1 | X | |
| | Q6806365001A | DNA | U MANUAL_Samsung_S730_RUS | 1 | X | |
| | Q6806365101A | AD81-02167A | U MANUAL_Samsung_S730_CHI(S) | 1 | O | |
| | Q6806365201A | DNA | U MANUAL_Samsung_S730_TK | 1 | X | |
| | Q6806365301A | DNA | U MANUAL_Samsung_S730_IND | 1 | X | |
| | Q6806365401A | DNA | U MANUAL_Samsung_S730_ARA | 1 | X | |
| | Q6806365501A | DNA | U MANUAL_Samsung_S730_THA | 1 | X | |
| | Q6806378401A | DNA | U MANUAL_KENOX_D70_D60_KOR | 1 | X | |
| | Q6806378601A | DNA | U MANUAL_Samsung_D70_D60_ENG | 1 | X | |
| | Q6806378701A | DNA | U MANUAL_Samsung_D70_D60_GER | 1 | X | |
| | Q6806378801A | DNA | U MANUAL_Samsung_D70_D60_FRA | 1 | X | |
| | Q6806378901A | DNA | U MANUAL_Samsung_D70_D60_SPA | 1 | X | |
| | Q6806379001A | DNA | U MANUAL_Samsung_D70_D60_ITA | 1 | X | |
| | Q6806379101A | DNA | U MANUAL_Samsung_D70_D60_CHI_T | 1 | X | |
| | Q6806379201A | DNA | U MANUAL_Samsung_D70_D60_DUT | 1 | X | |

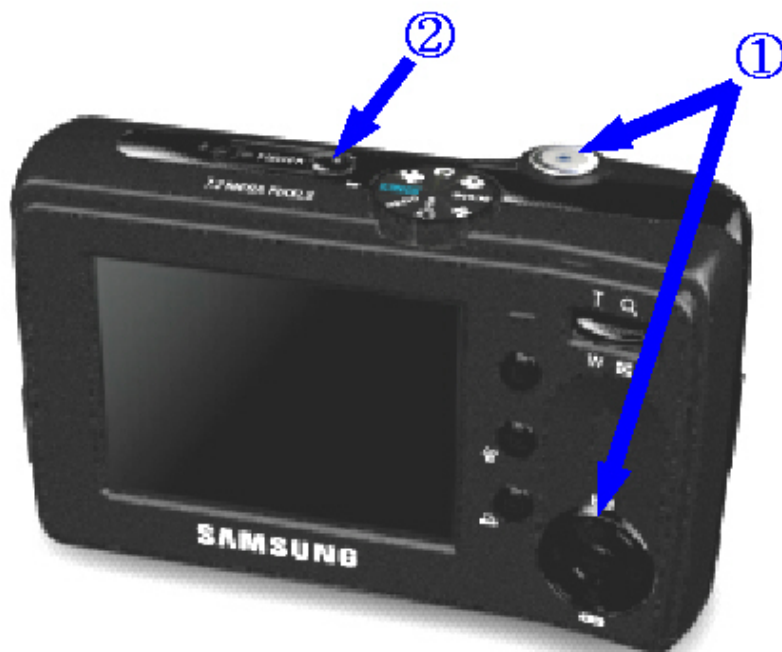
| | | | | | |
|------|--------------|-------------|--|---|---|
| | Q6806379301A | DNA | U MANUAL Samsung D70 D60 POR | 1 | X |
| | Q6806379401A | DNA | U MANUAL Samsung D70 D60 SWE | 1 | X |
| | Q6806379501A | DNA | U MANUAL Samsung D70 D60 DEN | 1 | X |
| | Q6806379601A | DNA | U MANUAL Samsung D70 D60 FIN | 1 | X |
| | Q6806379701A | DNA | U MANUAL Samsung D70 D60 RUS | 1 | X |
| | Q6806379801A | DNA | U MANUAL Samsung D70 D60 CHI S | 1 | X |
| | Q6806379901A | DNA | U MANUAL Samsung D70 D60 TK | 1 | X |
| | Q6806380001A | DNA | U MANUAL Samsung D70 D60 IND | 1 | X |
| | Q6806380101A | DNA | U MANUAL Samsung D70 D60 ARA | 1 | X |
| | Q6806380201A | DNA | U MANUAL Samsung D70 D60 THA | 1 | X |
| 8-8 | Q6806377701A | DNA | QS MANUAL KENOX S730 S630 | 1 | X |
| | Q6806365601A | AD81-02168A | QS/MANUAL Samsung S730 E/G/F/SP/I/DU/P_7 | 1 | O |
| | Q6806365701A | AD68-01739A | QS/MANUAL Samsung S730 E/G/FI/SW/DA/RU_6 | 1 | O |
| | Q6806365801A | DNA | QS/MANUAL Samsung S730 E/TU/CH/IN/AR_TH_6 | 1 | X |
| | Q6806377801A | DNA | QS MANUAL Samsung S730 EN_SP_FR | 1 | X |
| | Q6806378501A | AD81-02182A | QS MANUAL KENOX D70 D60 | 1 | O |
| | Q6806380301A | DNA | QS M D70 D60 E G F SP I DU P_7 | 1 | X |
| | Q6806380401A | DNA | QS M D70 D60 E G FI SW DA RU_6 | 1 | X |
| | Q6806380501A | DNA | QS M D70 D60 E TU CH IN AR TH_6 | 1 | X |
| | Q6806380601A | DNA | QS M D70 D60 EN SP FR_3 | 1 | X |
| 8-9 | QP955150101F | 6801-001642 | WARRANTY CARD KOREA | 1 | O |
| | Q6807012301A | DNA | WARRANTY CARD_2 YERARS | 1 | X |
| | Q6807010903C | 6801-001650 | WARRANTY CARD RUS(3 YEARS) | 1 | O |
| | Q6807011301B | AD81-02236A | WARRANTY CARD TSOE(CHINA) | 1 | O |
| | Q6807009502E | DNA | CARD PRODUCT(Mexico) | 1 | X |
| | Q6807012101A | DNA | WARRANTY CARD_IRAN | 1 | X |
| 8-10 | Q6807012401A | DNA | WARRANTY CARD TURKEY | 1 | X |
| | Q6901260701A | AD81-02534A | G/T BOX KENOX S630 Ni-MH(SNB-2512)_Silver | 1 | O |
| | Q6901260801A | AD81-02535A | G/T BOX S630 EXP AUS ALKALINE_Silver | 1 | O |
| | Q6901260901A | AD81-02536A | G/T BOX S630 USA CAN ALKALINE_Silver | 1 | O |
| | Q6901256301A | AD81-02526A | G/T BOX KENOX S730 Ni-MH(SNB-2512)_Silver | 1 | O |
| | Q6901256401A | AD81-02527A | G/T BOX S730 EXP AUS ALKALINE_Silver | 1 | O |
| | Q6901256501A | AD81-02528A | G/T BOX S730 USA CAN ALKALINE_Silver | 1 | O |
| | Q6901262701A | DNA | GT D60 EXP AUS ALKALINE_Silver | 1 | X |
| 8-11 | Q6901262801A | DNA | GT D60 USA CAN ALKALINE_Silver | 1 | X |
| | Q4301001801A | AD81-00867A | ALKALINE (1.5V, AA) 2EA - DURACEL ULTRA | 1 | O |
| 8-12 | Q4302000901A | AD81-00879A | BATTERY_SNB-2512(AA Type) | 1 | O |
| 8-13 | Q4309002301A | AD81-00898A | Ni-MH CHARGER(SBC-N2) | 1 | O |
| 8-14 | Q6806368001A | DNA | MANUAL_SNB-2512B KIT KOR | 1 | X |
| | Q6806378101A | DNA | MANUAL_SNB-2512BKIT_CHI S | 1 | X |
| 8-15 | Q3801003001A | AD81-00695A | AC CODE CABLE_KOR-D1 | 1 | O |
| | Q3801003701A | AD81-00700A | AC CODE CABLE_TSOE-D1 | 1 | O |
| 8-16 | Q3802006601A | AD81-00748A | USB CABLE_S730 | 1 | O |
| 8-17 | Q3802006801A | AD81-00750A | AV CABLE_S630/D60 | 1 | O |
| | Q3802006701A | AD81-00749A | AV CABLE_S730/D70 | 1 | O |
| 8-18 | Q7409276601A | DNA | MIC LABEL KENOX S630(MADE IN CHINA) | 1 | X |
| | Q7409266001A | DNA | MIC LABEL KENOX S730(MADE IN CHINA) | 1 | X |
| | Q7409276901A | DNA | FCC LABEL Samsung S630_EXP (MADE IN CHINA) | 1 | X |
| | Q7409277001A | DNA | FCC LABEL Samsung S630_EXP (MADE BY SAMSUNG) | 1 | X |
| | Q7409266201A | DNA | FCC LABEL Samsung S730_EXP (MADE IN KOREA) | 1 | X |
| | Q7409266301A | DNA | FCC LABEL Samsung S730_EXP (MADE IN CHINA) | 1 | X |
| | Q7409266401A | DNA | FCC LABEL Samsung S730_EXP (MADE BY SAMSUNG) | 1 | X |
| | Q7409278701A | DNA | MIC LABEL KENOX D70 (MADE IN CHINA) | 1 | X |
| | Q7409279101A | DNA | MIC LABEL KENOX D60 (MADE IN CHINA) | 1 | X |
| | Q7409278801A | DNA | FCC LABEL SAMSUNG D70 (MADE IN CHINA) | 1 | X |
| | Q7409279201A | DNA | FCC LABEL SAMSUNG D60 (MADE IN CHINA) | 1 | X |
| | Q7409278901A | DNA | FCC LABEL SAMSUNG D70 (MADE BY SAMSUNG) | 1 | X |
| | Q7409279301A | DNA | FCC LABEL SAMSUNG D60 (MADE BY SAMSUNG) | 1 | X |

III . ADJUSTMENT

1. FIRMWARE

1) RESTING CAMERA

1. Turn on the Camera
2. Press and hold the Up button and Shutter button and then press the Power off.



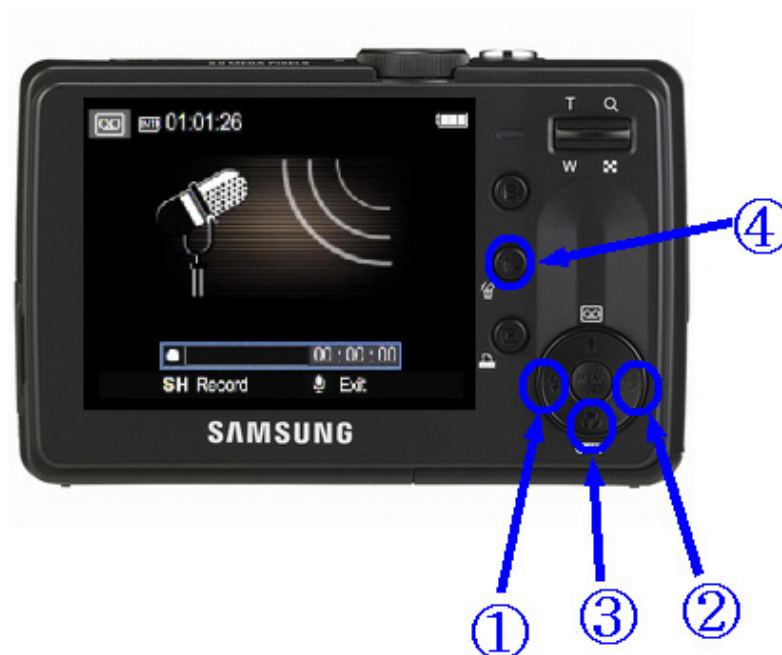
3. Turn on the camera and check whether the camera is reset or not.

2) CHECKING VERSION

1. Remove the memory card from the camera.
2. Turn on the camera.
3. Press the Up button twice to select the Voice Recording mode.



4. Press the 5 function button as following order. (Left button → Right button → Up button → +/- button)



III . ADJUSTMENT

5. Check the Firmware and turn off the camera.



3) UPGRADING

1. Insert the SD card that has the firmware.

* Updating the firmware will delete all data in the SD card. Be sure to download all data to your PC before updating the firmware.

The firmware file name must be " STS373.elf " and use the AC adapter or fully charged battery.

2. Use the AC adapter or fully charged battery.

To upgrade the Firmware, all of the battery level indicator on the LCD monitor must be displayed.

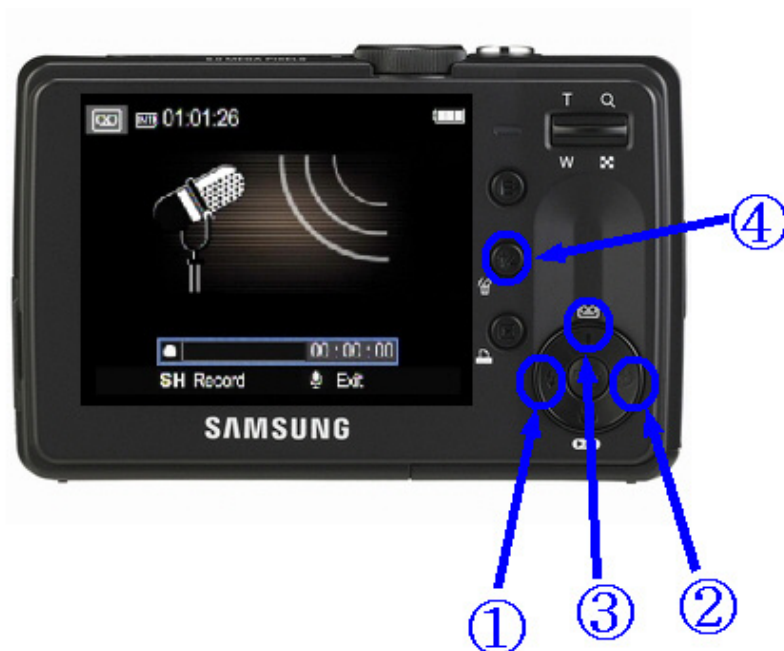
3. Turn on the camera.

4. Press the Up button twice to select the Voice Recording mode.



III . ADJUSTMENT

5. Press the 5 function button as following order. (Left button → Right button → Up button → +/- button)



6. 'UPGRADE (UP TYPE)' message will display and then the firmware will be upgraded.



7. After upgrading the firmware, the camera is turned off.

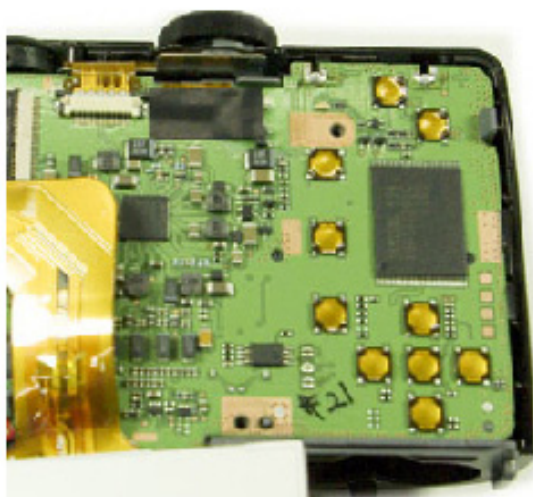
8. Turn on the camera and do the 'Reset' menu in the Setup menu.

4) FULL VERSION OF FIRMWARE

How to use the FULL firmware¹

- ▷ **Camera Status** : When turning on the camera, the power consumption (Checking the POWER SUPPLY) is 200-300mA and the camera can't be operated.
- ▷ **Cause** : The data of 0 address in the FLASH MEMORY of the MAIN PCB is damaged.
- ▷ **Solution** : Recover the address by doing the FULL VERSION FIRMWARE shown below.
- ▷ **Additions** : After completing the upgrading of the FULL VERSION FIRMWARE, do the LENS SHADING and CCD DEFECT CELL adjustment.

1. Short the 3 point of the MAIN PCB as shown.



2. Assemble the camera correctly and insert the SD card that has the Full version of firmware.
3. Turn on the camera by using the Power Supply.
To connect the camera and Power Supply, use the Battery Tool.
4. If the Current is up to 200mA and down to 0 on the POWER SUPPLY display, the upgrade is complete.

III . ADJUSTMENT

How to use the FULL firmware2

Depending on the camera status, do the full version upgrade.

▷ Reference :

- Delete all data in the memory card and upgrade with this firmware.
- When using the full version upgrade, back up the script file as the files will be deleted by the upgrade.
- If the full version upgrade is done by the following way, the script files are saved on the SD card. To upload the script files, do not remove the SD card and refer to instructions listed below.
- If there are LSCLUT0.BIN, DefectivePixel0.bin, DefectivePixel1.bin files on the SD card, the back up was complete.

1. Insert the SD card that has the Full version of firmware.

* The firmware file name must be " STS373_full.elf "

2. Use the AC adaptor or fully charged battery.

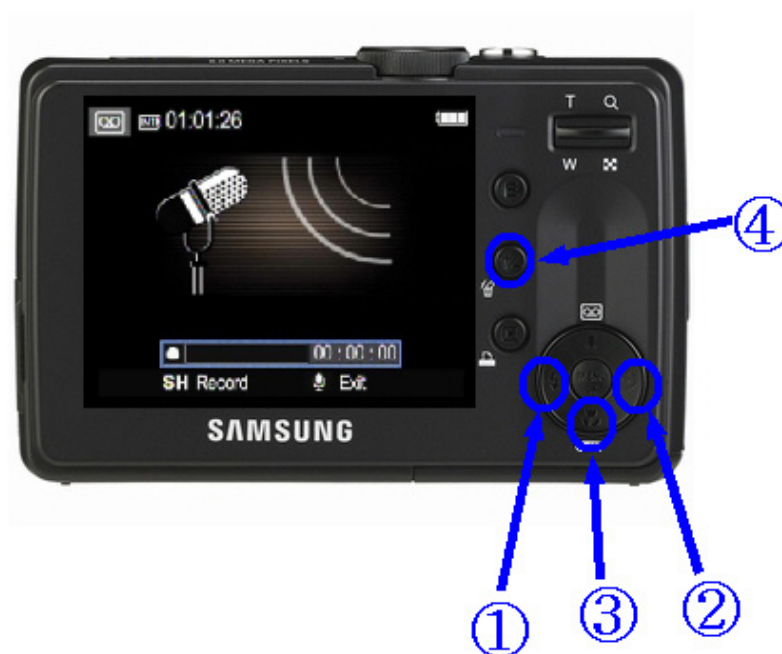
To upgrade the Firmware, all of the battery level indicator on the LCD monitor must be displayed.

3. Turn on the Camera.

4. Press the Up button twice to select the Voice Recording mode.



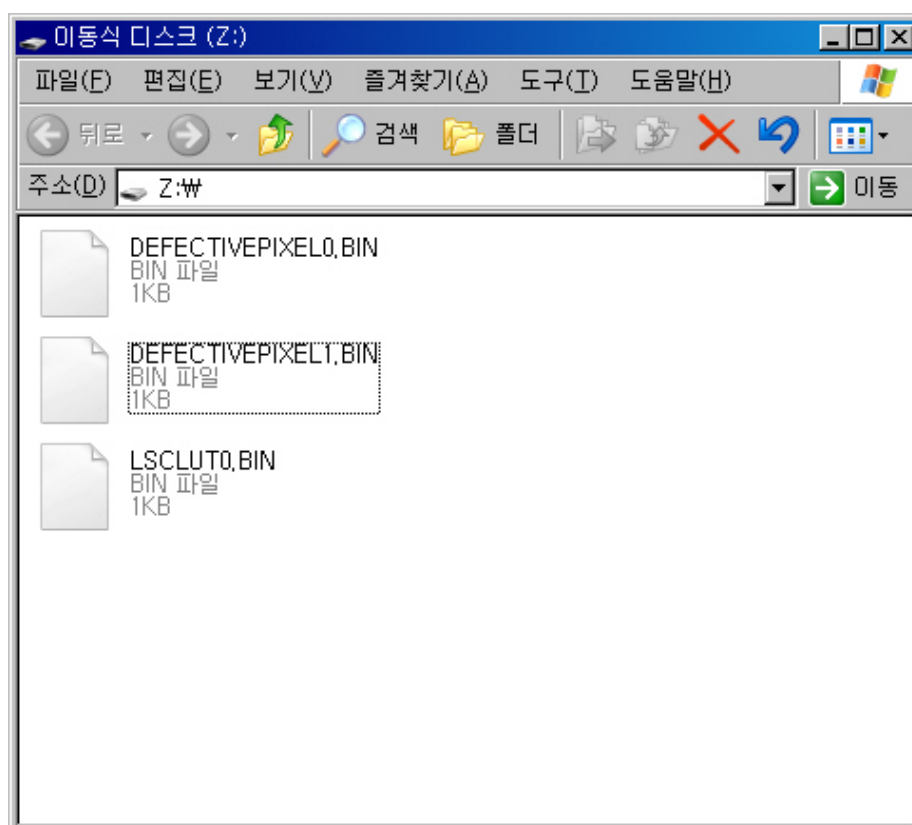
5. Press the 5 function button as following order. (Left button → Right button → Down button → +/- button)



6. 'UPGRADING!' message will display and then the firmware will be upgraded.



- After completing the upgrading, Backup files will be made on the SD memory card.
Backup file names are LSCLUT0.BIN, DefectivePixel0.bin and DefectivePixel1.bin .



- After upgrading the Full version firmware, upload the script files.
Turn on the camera and press the Up button twice to select the Voice Recording mode.
Press the 5 function button as following order : Tele button → Wide button → Down button → OK button.



III . ADJUSTMENT

8. The following message will display and the upgrading is complete.



9. Turn off the camera.

2. ADJUSTMENT CAUTION

1) Basic Information of Adjustment

After changing the electronic parts of S730, the parts have to be adjusted in accordance with the adjusted items.
The items listed on the table are have to be adjusted after changing.

1> To adjust the camera after changing the electronic parts, see the below table.

| | MAIN PCB | POWER PCB | BARREL ASS' Y | CCD ASS' Y |
|--------------------------------|-------------|--------------|------------------|---------------|
| FIRMWARE UPGRADE | ● | | ● | |
| PUNT ADJ. | ● | | ● | ● |
| SHUTTER CLOSE TIME ADJ. | ● | | ● | ● |
| BACK LASH ADJ. | ● | | ● | ● |
| FLASH ADJ. | ● | ● | | |
| BATTERY LEVEL ADJ. | ● | ● | | |
| OB SETTING | ● | | | ● |
| BURNING TEST & CCD DEFECT CELL | ● | ● | ● | ● |
| EEPROM READ | | | | |
| EEPROM WRITE | | | | |

2> Equipment

► Equipments

- AE TESTER : AE TESET can test up to LV 16.7.
- POWER SUPPLY : 3.3V / 2A

► Chart

- Focus Chart
- Gray Chart(31%..Reflection Paper)

III . ADJUSTMENT

3> Adjustment program file

To adjust all items, all kinds of code by items have to be inserted in program file and saved them to the SD card as TXT file type. The codes are listed below.

< Description of TXT file >

Use the Memo pad of Basic Windows program and save it as "STS373ADJ.txt"

```
// PM Batch Test 8-process //
```



```
// adj control  
adj_control check_process_id 65535  
adj_control set_process_id 65534  
adj_control save_eeprom 1 // save eeprom  
adj_control save_data_file 1 // save csv...  
adj_control save_process_pass 1  
adj_control batch 1 // enable 8 adj...  
adj_control osd_delay 0 // OSD Disable
```



```
adj_control signal 500// start signal  
//adj_control signal 300// start signal  
//adj_control signal 300// start signal
```



```
//=====#1. OB(63 OB ADJ SKIP)  
delay 5  
mode program  
adj_ob preview_agc 96  
adj_ob preview_target_rgb 0 0 0  
adj_ob preview_luma_min_max 150 4000
```



```
adj_ob capture_agc 96  
adj_ob capture_target_rgb 0 0 0  
adj_ob capture_luma_min_max 150 4000  
adj_ob run  
delay 5
```



```
//adj_control signal 100// start signal
```

```
//=====#2.LSC
//mode program
//adj_lens_shading repeat_num 1
adj_lens_shading ng_repeat 3
adj_lens_shading lut_load_percent 80
adj_lens_shading before_capture_skip 1
adj_lens_shading luma_min_max 75 120
adj_lens_shading run
delay 10
//adj_control signal 100

//=====#3.Battery Level
adj_battery base 100 300

adj_battery half_1 175
adj_battery low_1 169
adj_battery empty_1 165
adj_battery lock_1 161
adj_battery start_1 165

adj_battery half_2 175
adj_battery low_2 168
adj_battery empty_2 164
adj_battery lock_2 157
adj_battery start_2 165
adj_battery run

//=====#4.BackLash
mode program
adj_backlash adj_count 2
adj_backlash max_backlash 70
adj_backlash run

//=====#5.Shutter Closing
mode program
ae evc 12
adj_sh_close max_count 20

adj_sh_close init_linedelay 13
adj_sh_close init_subdelay 0

adj_sh_close gain_skip1 0 //0:enable
adj_sh_close gain_skip2 0 //0:enable
adj_sh_close gain_setlvalue 208 // 208/16=13Lv
```

III . ADJUSTMENT

```
adj_sh_close gain_offset -5      //(5000K -> 3300K)
adj_sh_close gain_adjustrange1 15
adj_sh_close gain_adjustrange2 15
adj_sh_close run
delay 10
//adj_control signal 1500
```

```
//=====#6.Strobe
```

```
Mode program
Ae metering 1
Ae iso 2
Ae evc 6
Ae preview_fnum 1
Ae preview_s_speed 058
Ae preview_gain 050
Ae lock
Zoom wide
Delay 20
adj_strobe_intensity param
adj_strobe_intensity stage PV2
adj_strobe_intensity flash_table_test 0
adj_strobe_intensity level_test_number 2
adj_strobe_intensity pre_table_index 14 0 0 0 0
adj_strobe_intensity Standard_Luma 200 310 400 620 725 1110
adj_strobe_intensity awb_gain 474 620 272 360
adj_strobe_intensity run
//Delay 20
//adj_control signal 4000
delay 5
```

```
=====// Punt
```

```
zoom close_to_open
mode program
coach idle
ae metering 0
ae iso 0
ae evc 6
ae preview_fnum 1
set wb auto
coach view
delay 25
adj_control save_e2prom 1
adj_control save_data_file 1
adj_punt zoomstep 0 7
```

```
adj_punt searching_min_short 80 80 80 80 90 90 50 50
adj_punt searching_max_short 160 160 160 160 165 170 170 170
adj_punt searching_min -7 31 23 21 27 29 18 32
adj_punt searching_max 245 248 240 238 244 246 235 230
adj_punt limit_min_short 85 85 85 85 95 95 55 55
adj_punt limit_max_short 155 155 155 155 160 165 165 165
adj_punt limit_min 13 51 43 41 47 49 38 52
adj_punt limit_max 225 228 220 218 224 226 215 210
adj_punt slop_min -100 -100 -90 -100 -130 -150 -170
adj_punt slop_max 60 80 100 120 140 160 180
adj_punt run
```

```
//adj_control signal 0
delay 5
```

```
// Current Consumption
mode program
delay 20
zoom wide
delay 30
zoom tele
delay 20
mode playback
delay 10
mode program
//set reset
poweroff zoom_close
```

```
//=====#1. Burnin Test
```

```
adj_control check_process_id 65532
adj_control set_process_id 65528
adj_control save_e2prom 1
adj_control save_data_file 1
adj_control rePeat_CNT 20
adj_control override_tv_usb 1
adj_control do_check_process_id 1 //production check

adj_burnin delete_all
//adj_burnin format_keep
adj_burnin prog_mode
adj_burnin lcd_on
```


III . ADJUSTMENT

```
adj_burnin flash_cap  
adj_burnin flash_off_cap  
adj_burnin norm_cap  
adj_burnin macro_cap
```

```
adj_burnin selftimer_cap  
adj_burnin play_mode
```

```
adj_burnin prog_mode  
adj_burnin avi_cap_5sec
```

```
adj_burnin easy_mode
```

```
adj_burnin aux_led_on  
adj_burnin wait_2sec  
adj_burnin aux_led_off
```

```
adj_burnin burnin_end
```

```
//=====#2. CCD Defect Cell
```

```
//start adj_defective_pixel  
//adj_control check_process_id 65535  
//adj_control save_e2prom 1  
//adj_control save_data_file 1
```

```
mode program  
//ae metering multi  
//ae iso 200  
//ae ev 0  
//ae iris 0  
//awb wbal auto  
//coach view  
//delay 25
```

```
adj_defect integration  
adj_defect ref_level_short 800  
adj_defect ref_level_long 3500  
adj_defect exp_time 6  
adj_defect defect_max_num1 30000  
adj_defect defect_max_num2 30000  
//adj_defect run  
//end adj_defect  
//delay 10  
//poweroff zoom_close
```

※ SD CARD SHOULD BE FORMATTED BEFORE USING.

2) OB SETTING

After changing the MAIN PCB, adjust the black color.

< How to adjust >

- a...Download program and save it to SD memory card.
- b...Insert the SD memory card that has the program file and turn on the camera.
- c...Adjustment will be done automatically.
- d...After completing the adjustment, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt"

```
// PM Batch Test 8 //

// adj control
adj_control check_process_id 65535
adj_control set_process_id 65534
adj_control save_eeprom 1 // save eeprom
adj_control save_data_file 1 // save csv...
adj_control save_process_pass 1
adj_control batch 1 // enable 8 adj...
adj_control osd_delay 0 // OSD Disable

adj_control signal 500// start signal
//adj_control signal 300// start signal
//adj_control signal 300// start signal
```

III . ADJUSTMENT

```
//=====#1. OB
delay 5
mode program
adj_ob preview_agc 96
adj_ob preview_target_rgb 0 0 0
adj_ob preview_luma_min_max 150 4000

adj_ob capture_agc 96
adj_ob capture_target_rgb 0 0 0
adj_ob capture_luma_min_max 150 4000
adj_ob run
delay 5

//adj_control signal 100// start signal

poweroff zoom_close
```

3) LENS SHADING

The characteristic of Lens makes the outside of the image be dark.

This phenomenon is called "Lens Shading".

This adjustment is for compensating the brightness of the outside of the image.

After calculating the darkness, this adjustment will increase the brightness of the outside of the image up to 80% of the center of the image.

[Standards for the Adjustment]

- Specification of the tools : Light source that can block the external light source
- Color temperature : $3200\text{K} \pm 50$
- Brightness : $\text{LV } 8.2 \pm 0.1$ (± 0.05 recommended)

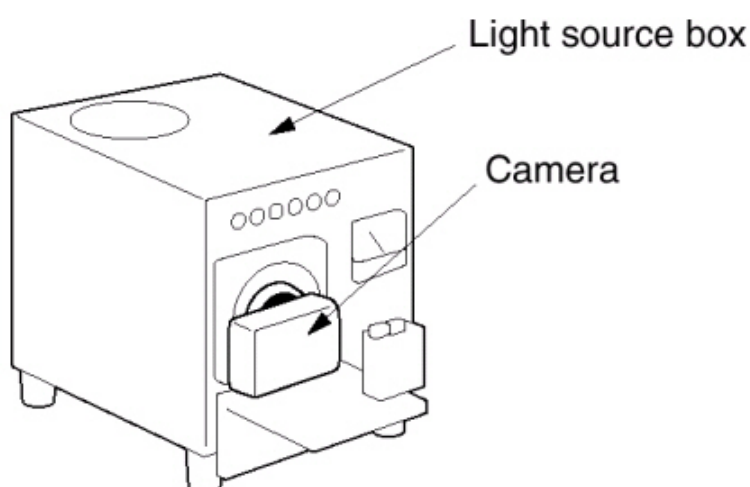
< How to adjust >

a...Prepare AE TESTER can be test up to LV8.2.

b...Download program file and save it to SD memory card.

c...Insert the SD memory card that has the program file and attach the camera to the Light box.

d...Attach the camera on the AE METER and set the LV as 8.2



III . ADJUSTMENT

e...Turn on the camera.

f...Adjustment will be done automatically.

e...After completing the upgrade, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt"

```
// PM Batch Test 8 //

// adj control
adj_control check_process_id 65535
adj_control set_process_id 65534
adj_control save_e2prom 1 // save eeprom
adj_control save_data_file 1 // save csv...
adj_control save_process_pass 1
adj_control batch 1 // enable 8 adj...
adj_control osd_delay 0ÄÄÄÄÄ// OSD Disable

adj_control signal 500// start signal
//adj_control signal 300// start signal
//adj_control signal 300// start signal

//=====#2.LSC
//mode program
//adj_lens_shading repeat_num 1
adj_lens_shading ng_repeat 3
adj_lens_shading lut_load_percent 80
adj_lens_shading before_capture_skip 1
adj_lens_shading luma_min_max 75 120
adj_lens_shading run
delay 10
//adj_control signal 100

poweroff zoom_close
```

4) B/T LEVEL ADJ

After changing the MAIN PCB, adjust WARNING LEVEL and LOCK LEVEL.

< How to adjust >

a...Prepare the POWER..SUPPLY.

b...Connect the camera to the POWER..SUPPLY.

c...Set the voltage to 2.71V.

d...Downloading the program file and save it to SD memory card.

e...Insert the SD memory card and turn on the camera.

f...The adjustment will be done automatically. There are no displays on the LCD.

g...After completing the upgrade, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as"STS373ADJ.txt"

```
/ PM Batch Test 8 //
```

```
// adj control  
adj_control check_process_id 65535  
adj_control set_process_id 65534  
adj_control save_eeprom 1 // save eeprom  
adj_control save_data_file 1 // save csv...  
adj_control save_process_pass 1  
adj_control batch 1 // enable 8 adj...  
adj_control osd_delay 0 // OSD Disable
```

```
adj_control signal 500// start signal  
//adj_control signal 300// start signal  
//adj_control signal 300// start signal
```

III . ADJUSTMENT

```
//=====#3.Battery Level
adj_battery base 100 300

adj_battery half_1 175
adj_battery low_1 169
adj_battery empty_1 165
adj_battery lock_1 161
adj_battery start_1 165

adj_battery half_2 175
adj_battery low_2 168
adj_battery empty_2 164
adj_battery lock_2 157
adj_battery start_2 165
adj_battery run

poweroff zoom_close
```

5) BACK LASH ADJ

After changing the MAIN PCB, BARREL and CCD, adjust the BACK LASH.

< How to adjust >

- a...Download the Program file and save it to SD memory card.
- b...Insert the SD memory card that has program file and turn on the camera.
- c...Adjustment will be done automatically.
- d...After completing the upgrade, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as"STS373ADJ.txt"

```
// PM Batch Test 8 //

// adj control
adj_control check_process_id 65535
adj_control set_process_id 65534
adj_control save_eeprom 1 // save eeprom
adj_control save_data_file 1 // save csv...
adj_control save_process_pass 1
adj_control batch 1 // enable 8 adj...
adj_control osd_delay 0 // OSD Disable

adj_control signal 500// start signal
//adj_control signal 300// start signal
//adj_control signal 300// start signal

//=====#4.BackLash
mode program
adj_backlash adj_count 2
adj_backlash max_backlash 70
adj_backlash run

poweroff zoom_close
```


III . ADJUSTMENT

6) SHUTTER CLOSE TIME ADJ

After changing the MAIN PCB, BARREL and CCD, adjust the SHUTTER CLOSE TIME and CCD Gain.

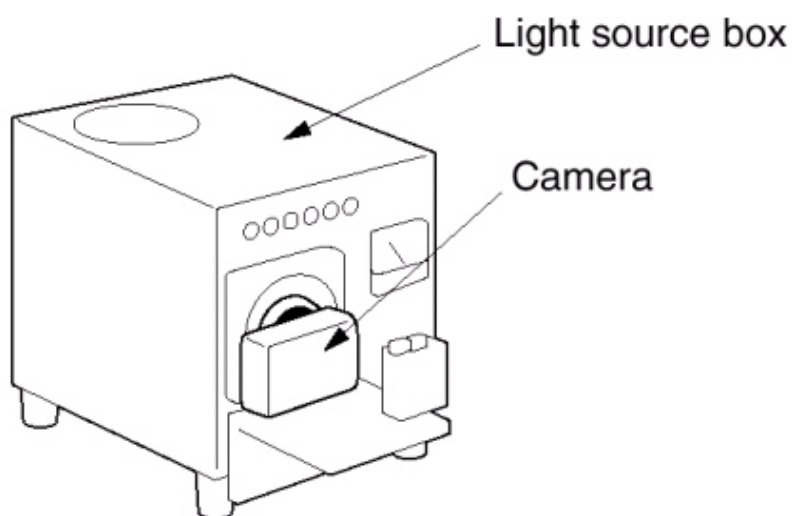
[Standards for the Adjustment]

- Specification of the tools : Light source that can block the external light source
- Color temperature : 3200K ± 50
- Brightness : LV 13 ± 0.1 (± 0.05 recommended)

< How to adjust >

a...Prepare AE TESTER that can be test up to LV 13.

b...Attach the camera to the AE TESTER.



c...Set the LV to 13.

d...Download the program and save it to SD memory card.

e...Insert the SD memory card that has the program file and turn on the camera.

f... The adjustment will be done automatically.

g... After completing the upgrade, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt"

```
// PM Batch Test 8 //

// adj control
adj_control check_process_id 65535
adj_control set_process_id 65534
adj_control save_eeprom 1 // save eeprom
adj_control save_data_file 1 // save csv...
adj_control save_process_pass 1
adj_control batch 1 // enable 8 adj...
adj_control osd_delay 0 // OSD Disable

adj_control signal 500// start signal
//adj_control signal 300// start signal
//adj_control signal 300// start signal

//=====#5.Shutter Closing
mode program
ae evc 12
adj_sh_close max_count 20

adj_sh_close init_linedelay 13
adj_sh_close init_subdelay 0

adj_sh_close gain_skip1 0 //0:enable
adj_sh_close gain_skip2 0 //0:enable
adj_sh_close gain_setlvalue 208 // 208/16=13Lv
adj_sh_close gain_offset -5 // (5000K -> 3300K)
adj_sh_close gain_adjustrange1 15
adj_sh_close gain_adjustrange2 15
adj_sh_close run
delay 10
//adj_control signal 1500

poweroff zoom_close
```

7) FLASH ADJ

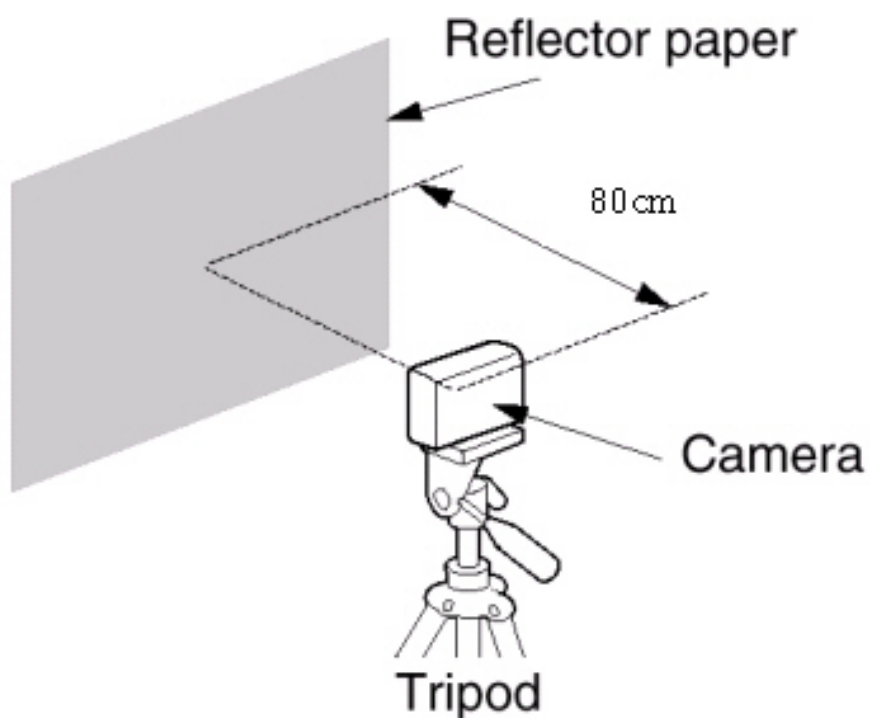
After changing the MAIN PCB and SUB PCB, adjust the FLASH.

< How to adjust >

a...Arrange a 18% reflect chart in a darkroom.

b...Arrange a camera in a darkroom. (Use TRIPOD)

c...The distance between the reflect chart and the camera should be 80cm.



d...Download the program and save it to SD memory card.

e...Insert the SD memory card that has the program file and turn on the camera.

f...The adjustment will be done automatically.

g...After completing the upgrade, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt"

```
// PM Batch Test 8 //

// adj control
adj_control check_process_id 65535
adj_control set_process_id 65534
adj_control save_eeprom 1 // save eeprom
adj_control save_data_file 1 // save csv...
adj_control save_process_pass 1
adj_control batch 1 // enable 8 adj...
adj_control osd_delay 0 // OSD Disable

adj_control signal 500// start signal
//adj_control signal 300// start signal
//adj_control signal 300// start signal

//=====#6.Strobe
Mode program
Ae metering 1
Ae iso 2
Ae evc 6
Ae preview_fnum 1
Ae preview_s_speed 058
Ae preview_gain 050
Ae lock
Zoom wide
Delay 20
adj_strobe_intensity param
adj_strobe_intensity stage PV2
adj_strobe_intensity flash_table_test 0
adj_strobe_intensity level_test_number 2
adj_strobe_intensity pre_table_index 14 0 0 0 0
adj_strobe_intensity Standard_Luma 200 310 400 620 725 1110
adj_strobe_intensity awb_gain 474 620 272 360
adj_strobe_intensity run
//Delay 20
//adj_control signal 4000
delay 5

poweroff zoom_close
```

8) FOCUS ADJ

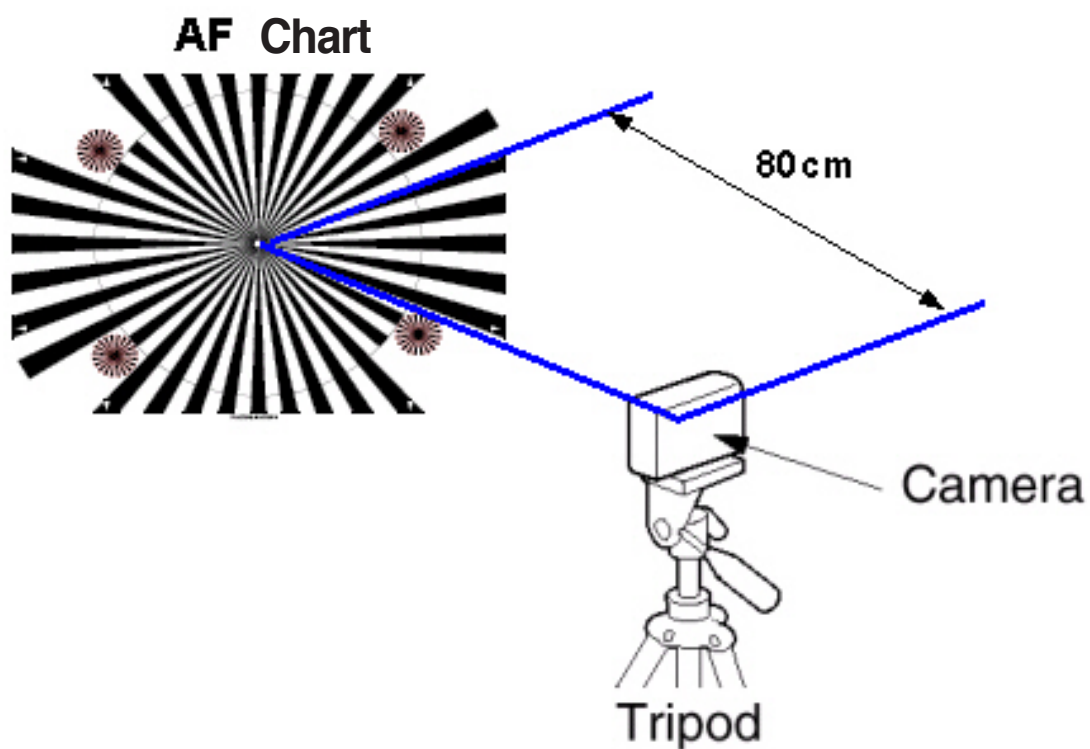
After changing the MAIN PCB and BARREL, adjust the PUNT.

< How to adjust >

a...Arrange a chart for adjust the FOCUS.

b...Attach the camera to the tripod.

c...The distance between the chart and the camera should be 80cm.



d...Download the program and save it to SD memory card.

e...Insert the SD memory card that has the program file and turn on the camera.

f...The adjustment will be done automatically.

g...After completing the upgrade, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt"

```
// PM Batch Test 8 //

// adj control
adj_control check_process_id 65535
adj_control set_process_id 65534
adj_control save_eeprom 1 // save eeprom
adj_control save_data_file 1 // save csv...
adj_control save_process_pass 1
adj_control batch 1 // enable 8 adj...
adj_control osd_delay 0 // OSD Disable

adj_control signal 500// start signal
//adj_control signal 300// start signal
//adj_control signal 300// start signal

=====// Punt
zoom close_to_open
mode program
coach idle
ae metering 0
ae iso 0
ae evc 6
ae preview_fnum 1
set wb auto
coach view
delay 25
adj_control save_eeprom 1
adj_control save_data_file 1
adj_punt zoomstep 0 7
adj_punt searching_min_short 80 80 80 80 90 90 50 50
adj_punt searching_max_short 160 160 160 160 165 170 170 170
adj_punt searching_min -7 31 23 21 27 29 18 32
adj_punt searching_max 245 248 240 238 244 246 235 230
adj_punt limit_min_short 85 85 85 85 95 95 55 55
adj_punt limit_max_short 155 155 155 155 160 165 165 165
adj_punt limit_min 13 51 43 41 47 49 38 52
adj_punt limit_max 225 228 220 218 224 226 215 210
adj_punt slop_min -100 -100 -90 -100 -130 -150 -170
adj_punt slop_max 60 80 100 120 140 160 180
adj_punt run
```

III . ADJUSTMENT

```
//adj_control signal 0  
delay 5  
  
poweroff zoom_close
```

9) CCD DEFECT ADJ

After changing the MAIN PCB and CCD, adjust the DEFECT CELL of CCD.

< How to adjust >

a...Download program file and save it to SD memory card.

b...Turn on the camera.

c...Adjustment will be done automatically.

d...After completing the upgrade, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt"

```
// PM Batch Test 8 //

// adj control
adj_control check_process_id 65535
adj_control set_process_id 65534
adj_control save_eeprom 1 // save eeprom
adj_control save_data_file 1 // save csv...
adj_control save_process_pass 1
adj_control batch 1 // enable 8 adj...
adj_control osd_delay 0 // OSD Disable

adj_control signal 500// start signal
//adj_control signal 300// start signal
//adj_control signal 300// start signal

//=====#2. CCD Defect Cell
//start adj_defective_pixel
//adj_control check_process_id 65535
//adj_control save_eeprom 1
//adj_control save_data_file 1
```


III . ADJUSTMENT

```
mode program
//ae metering multi
//ae iso 200
//ae ev 0
//ae iris 0
//awb wbal auto
//coach view
//delay 25

adj_defect integration
adj_defect ref_level_short 800
adj_defect ref_level_long 3500
adj_defect exp_time 6
adj_defect defect_max_num1 30000
adj_defect defect_max_num2 30000
adj_defect run
//end adj_defect
//delay 10
//poweroff zoom_close
```

10) BURNING ADJ

After changing the MAIN PCB and parts, check whether all of the camera functions work correctly.

< How to adjust >

- a...Download program and save it to SD memory card.
- b...Insert the SD memory card that has the program file and turn on the camera.
- c...Adjustment will be done automatically.
- d...After completing the adjustment, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as"STS373ADJ.txt"

```
//=====#1. Burnin Test
```

```
adj_control check_process_id 65535  
adj_control set_process_id 65528  
adj_control save_e2prom 1  
adj_control save_data_file 1  
adj_control rePeat_CNT 1  
adj_control override_tv_usb 1  
adj_control do_check_process_id 1
```

```
adj_burnin delete_all  
//adj_burnin format_keep  
adj_burnin prog_mode  
adj_burnin lcd_on
```

```
adj_burnin flash_cap  
adj_burnin flash_off_cap  
adj_burnin norm_cap  
adj_burnin macro_cap
```

```
adj_burnin selftimer_cap  
adj_burnin play_mode
```

III . ADJUSTMENT

```
adj_burnin prog_mode  
adj_burnin avi_cap_5sec
```

```
adj_burnin easy_mode
```

```
adj_burnin aux_led_on  
adj_burnin wait_2sec  
adj_burnin aux_led_off
```

```
adj_burnin burnin_end
```

```
//poweroff zoom_close
```

11) EEPROM READ

To read the data of EEPROM, refer to the below codes...

< How to read >

a...Download program and save it to SD memory card.

b...Insert the SD memory card that has the program file and turn on the camera.

c...Turn on the camera and the DATA in the EEPROM will be copied in the SD card.

The codes from Start ADD. to End ADD. will display on the LCD monitor and the rest of codes will not display.

d...Turn off the camera after reading and saving the data.

e...If you read the SD card in your PC, you can find the STS3_73_E2PR.CSV file and you can check the EEPROM DATA.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt".

dj_check e2p_read Start ADD. End ADD.

※ You can change from start address to end address.

12) EEPROM WRITE

If you want to write the DATA of EEPROM, do as follows.

< How to read >

a...Insert the address and value and save the program in the SD card.

Ex) adj_check e2p_write 301, 113

b...Insert the SD card to the camera and turn on the camera.

c...Turn on the camera and the data of EEPROM will be copied to the camera.

d...When the copy is complete, the camera is turned off automatically.

< Description of TXT file >

When making or modifying the program, see the following program codes.

When modify the program, use the Memo Pad of Windows and save it as "STS373ADJ.txt".

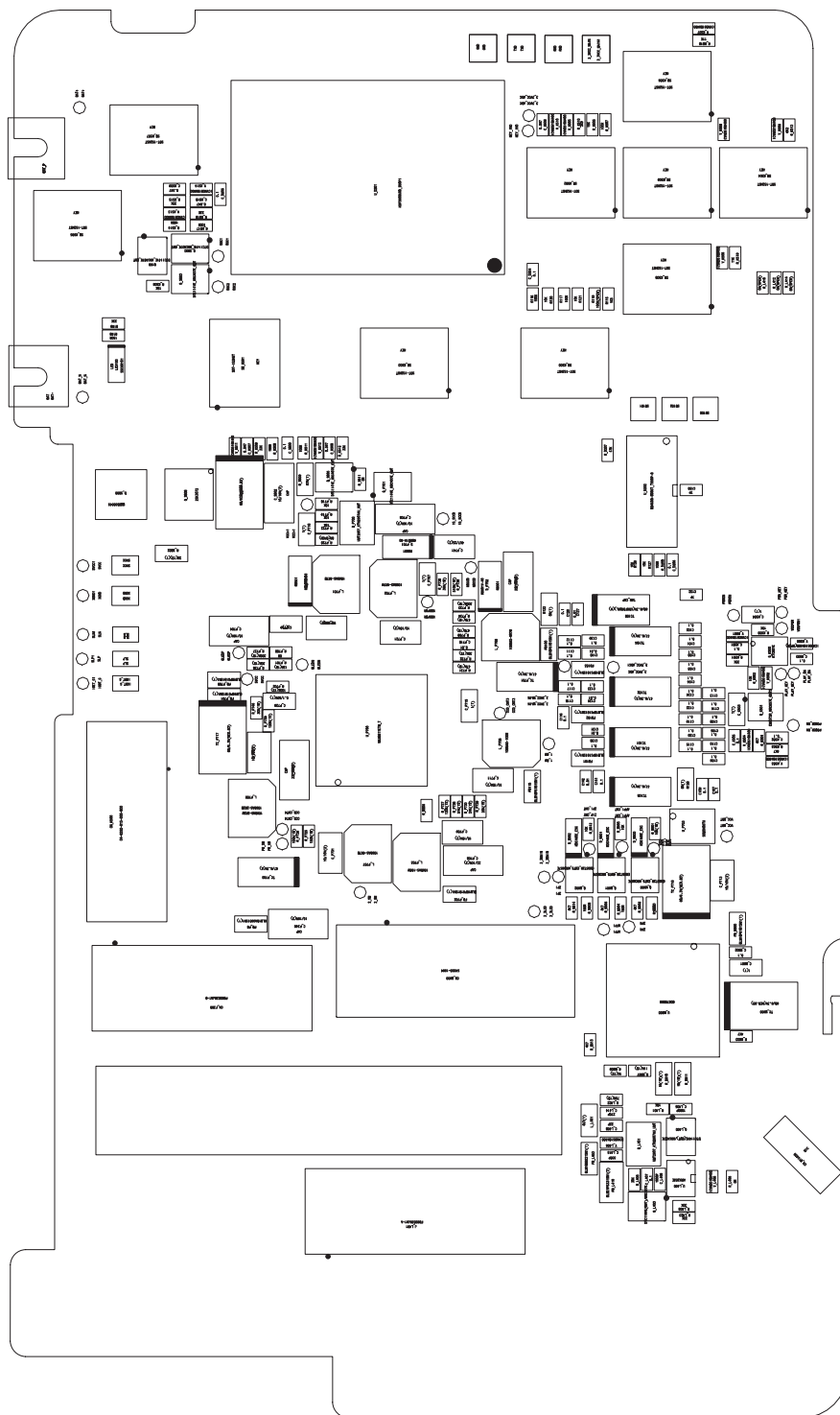
```
adj_check e2p_write ADD, Value
```

```
adj_check e2p_write ADD, Value
```

IV. PATTERN DIAGRAM

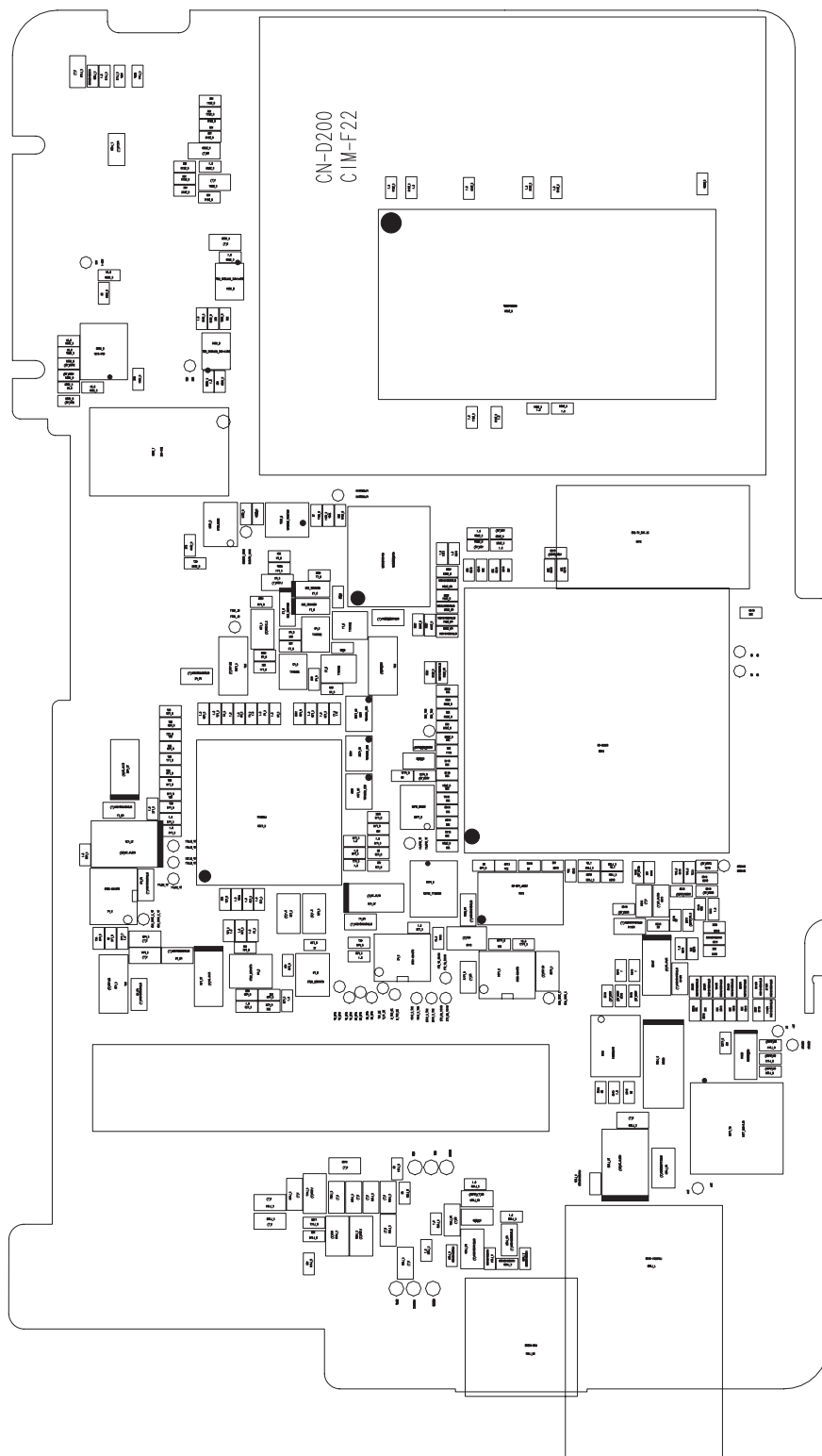
1. PARTS ARRANGEMENT FOR EACH PCB ASS'Y

1) MAIN_TOP_S3-63

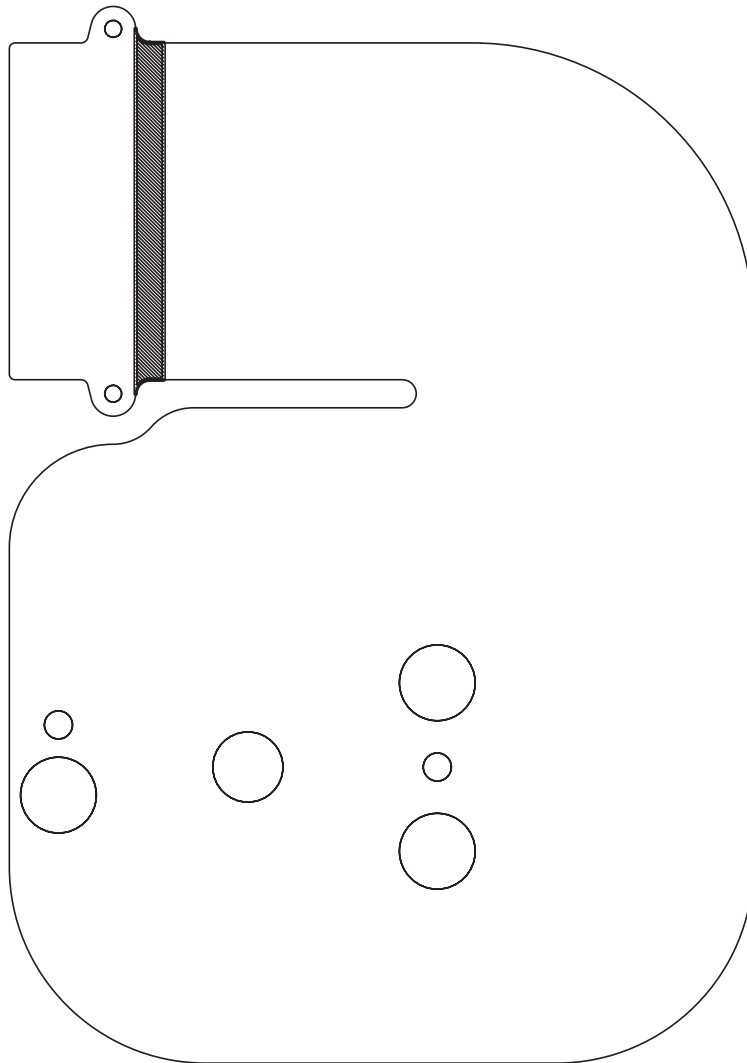


IV. PATTERN DIAGRAM

2) MAIN_BOTTOM_S3-63

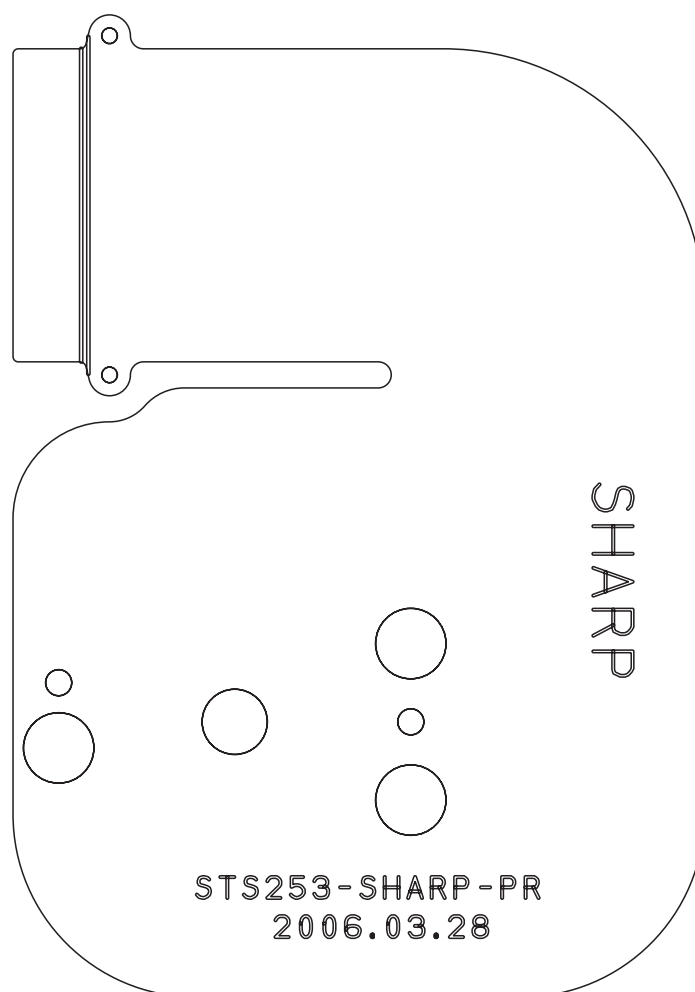


3) CCD_TOP_S3-63

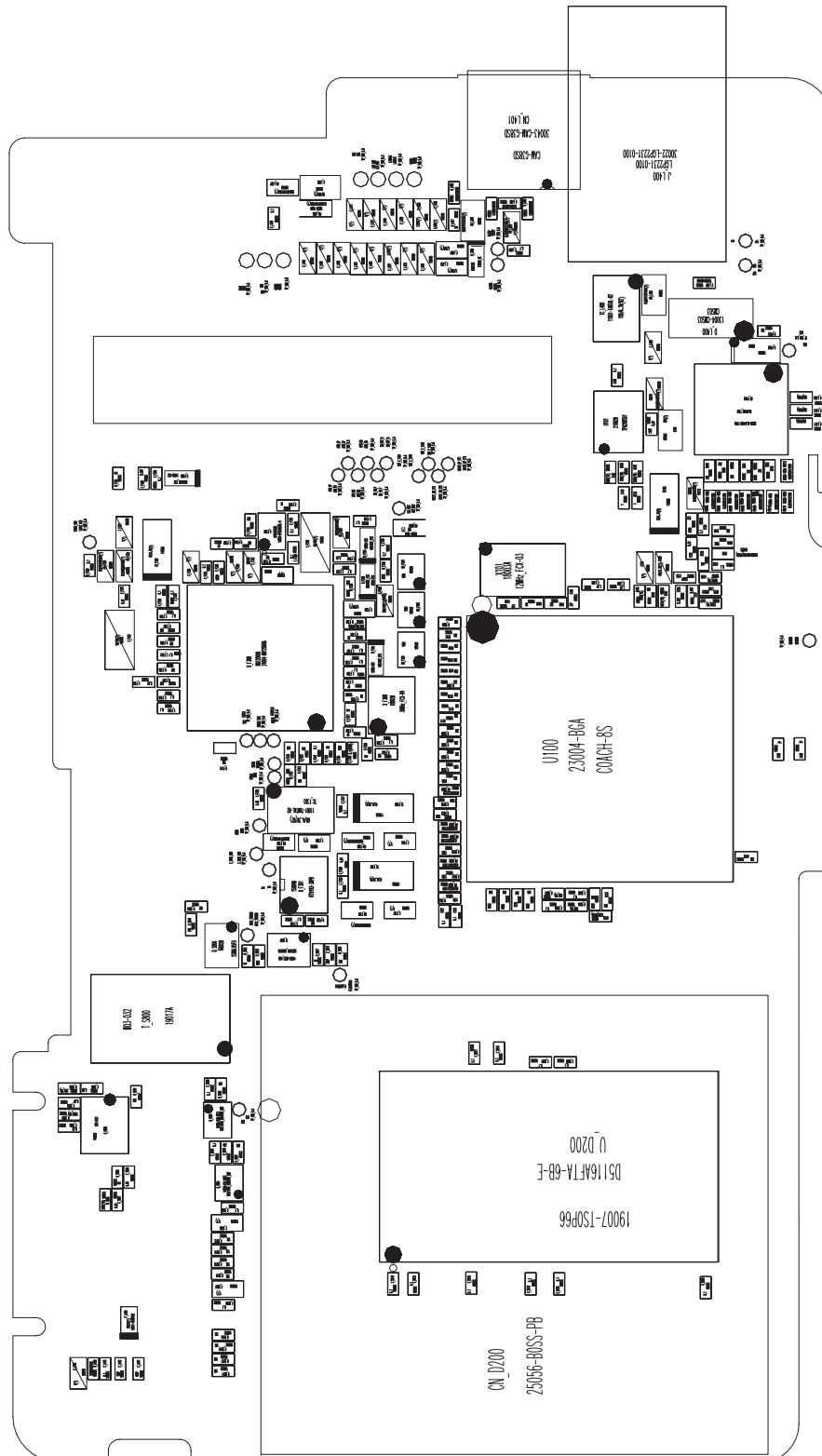


IV. PATTERN DIAGRAM

4) CCD_BOTTOM_S3-63

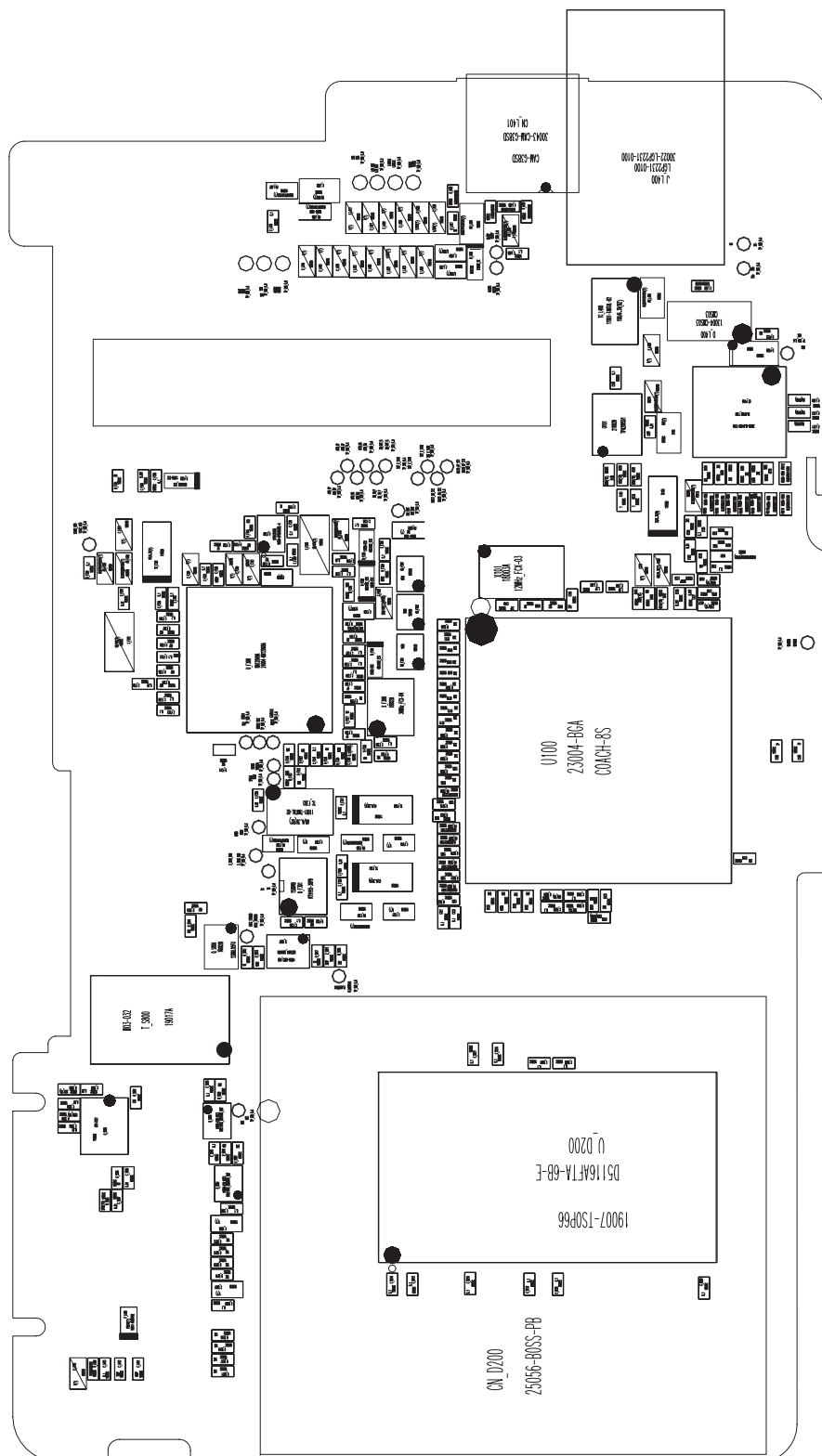


5) MAIN_BOTTOM_S3-73

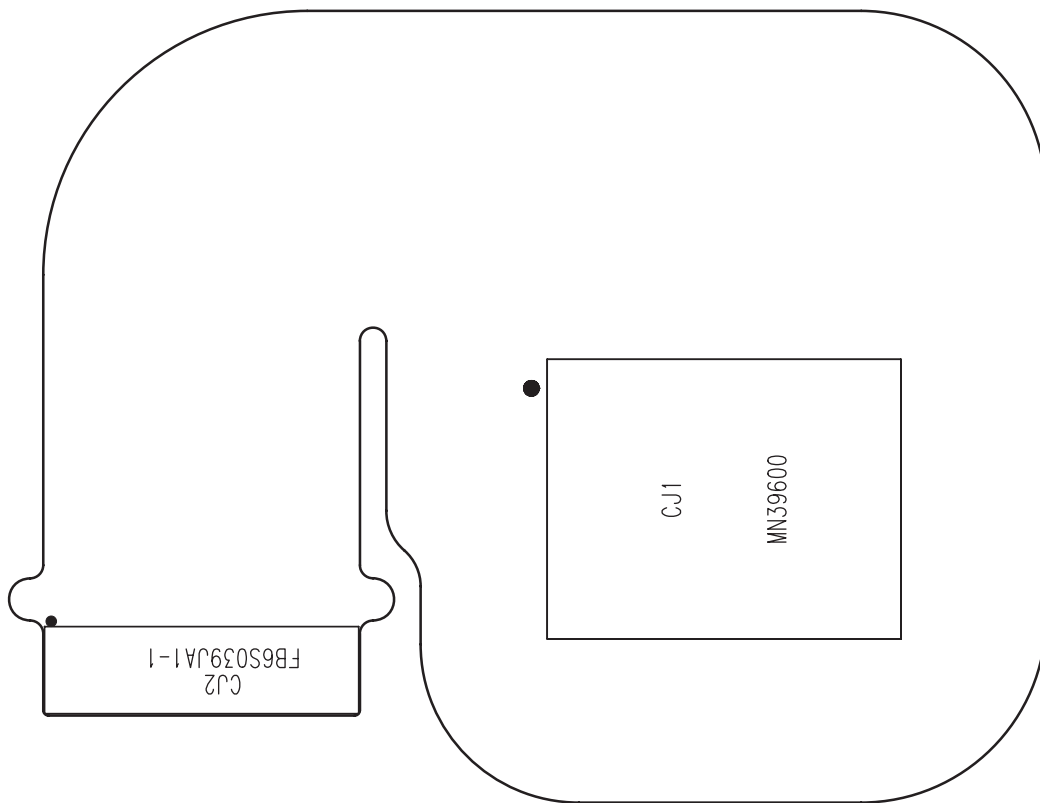


IV. PATTERN DIAGRAM

6) MAIN_BOTTOM_S3-73

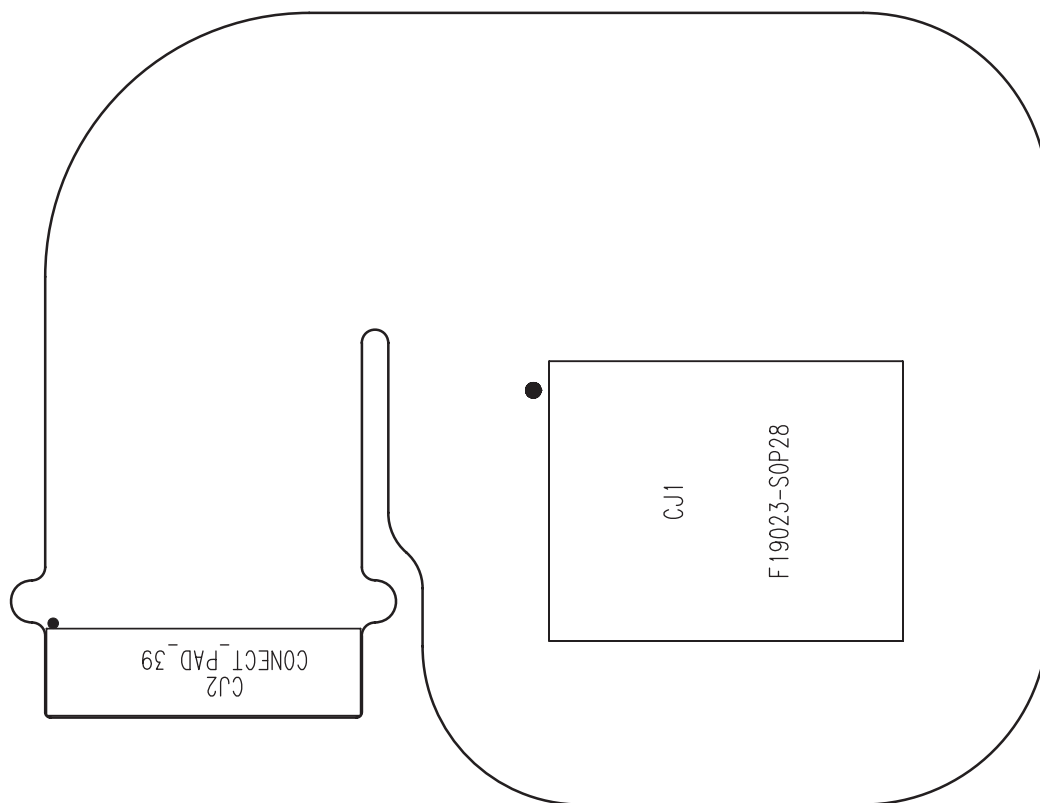


7) CCD_TOP_S3-73

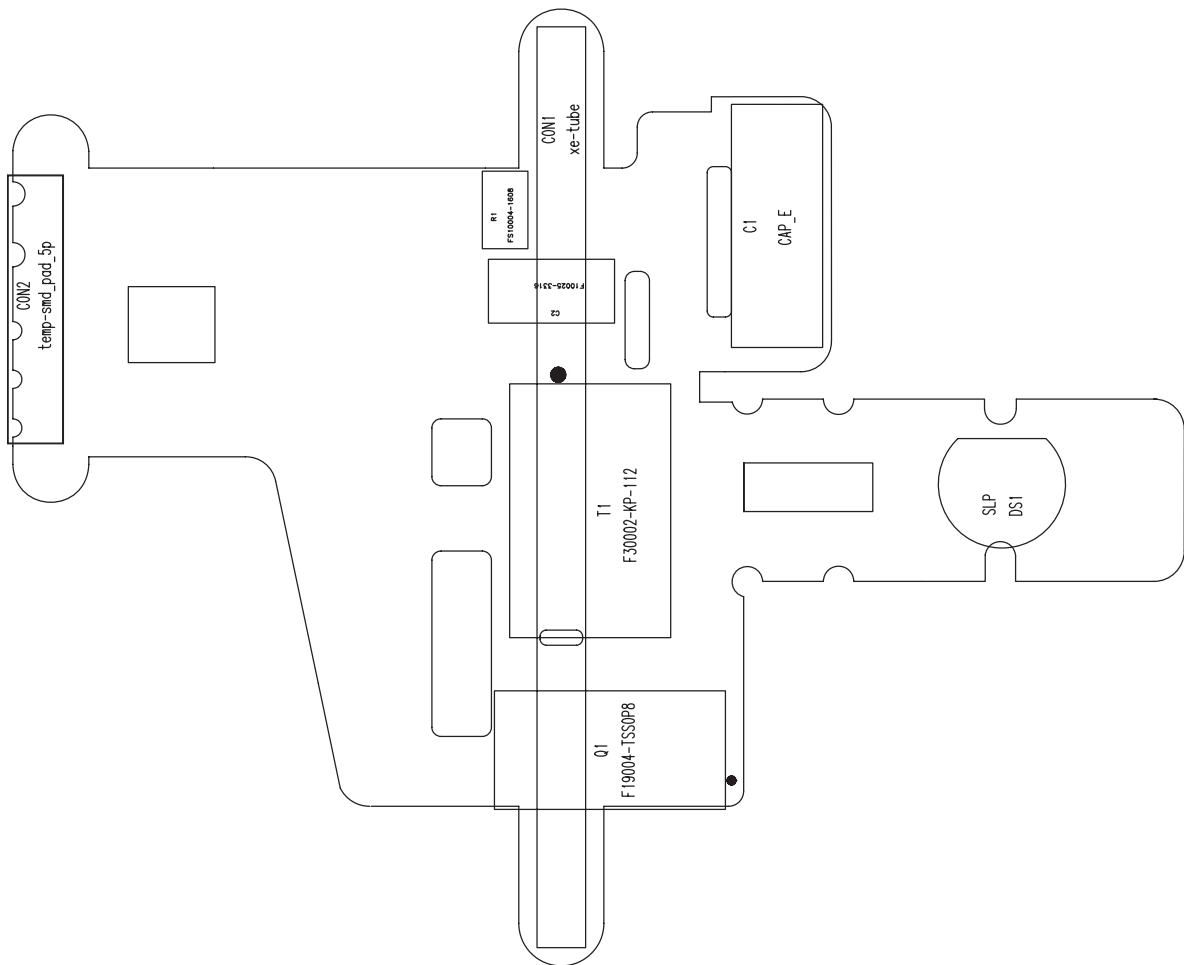


IV. PATTERN DIAGRAM

8) CCD_BOTTOM_S3-73

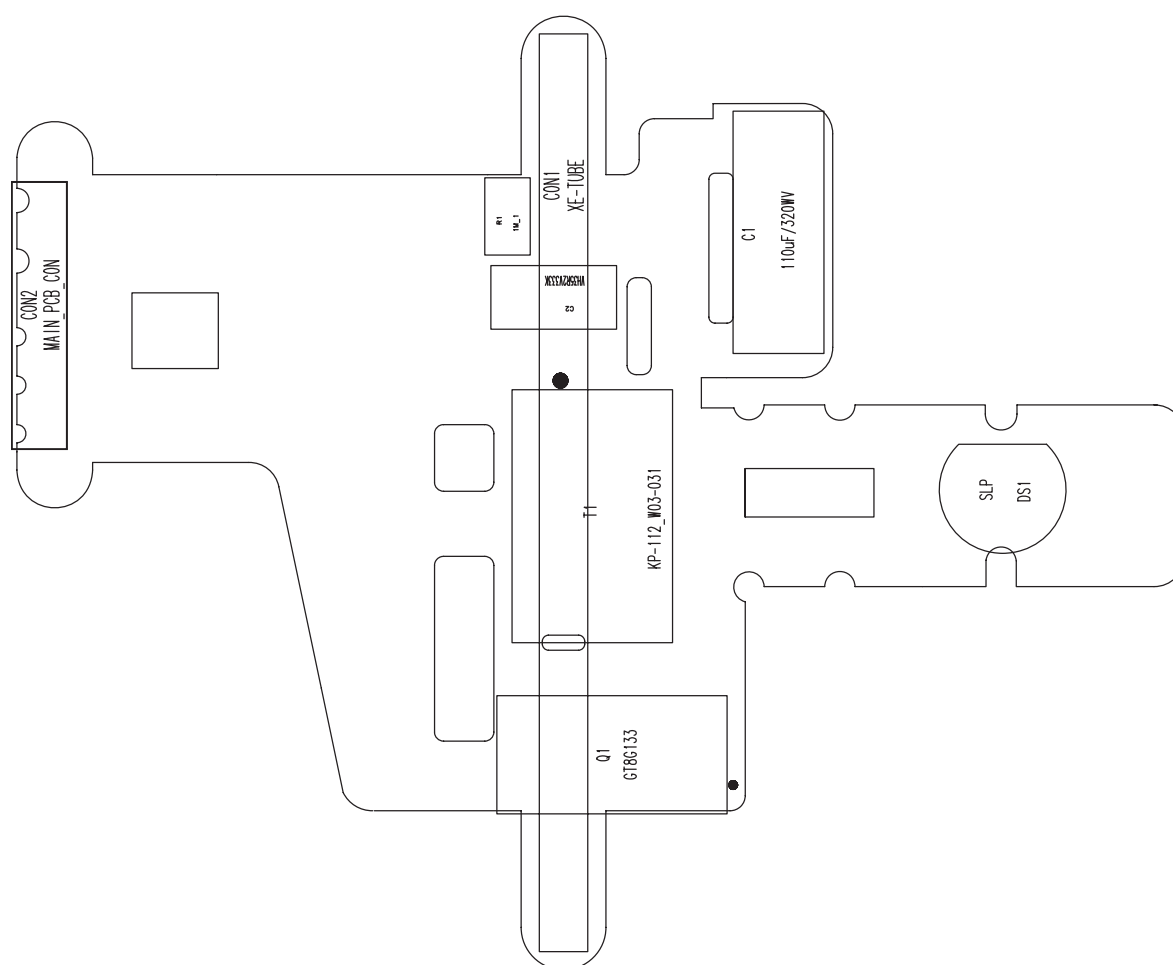


9) STROBO_TOP_S3-63/S3-73

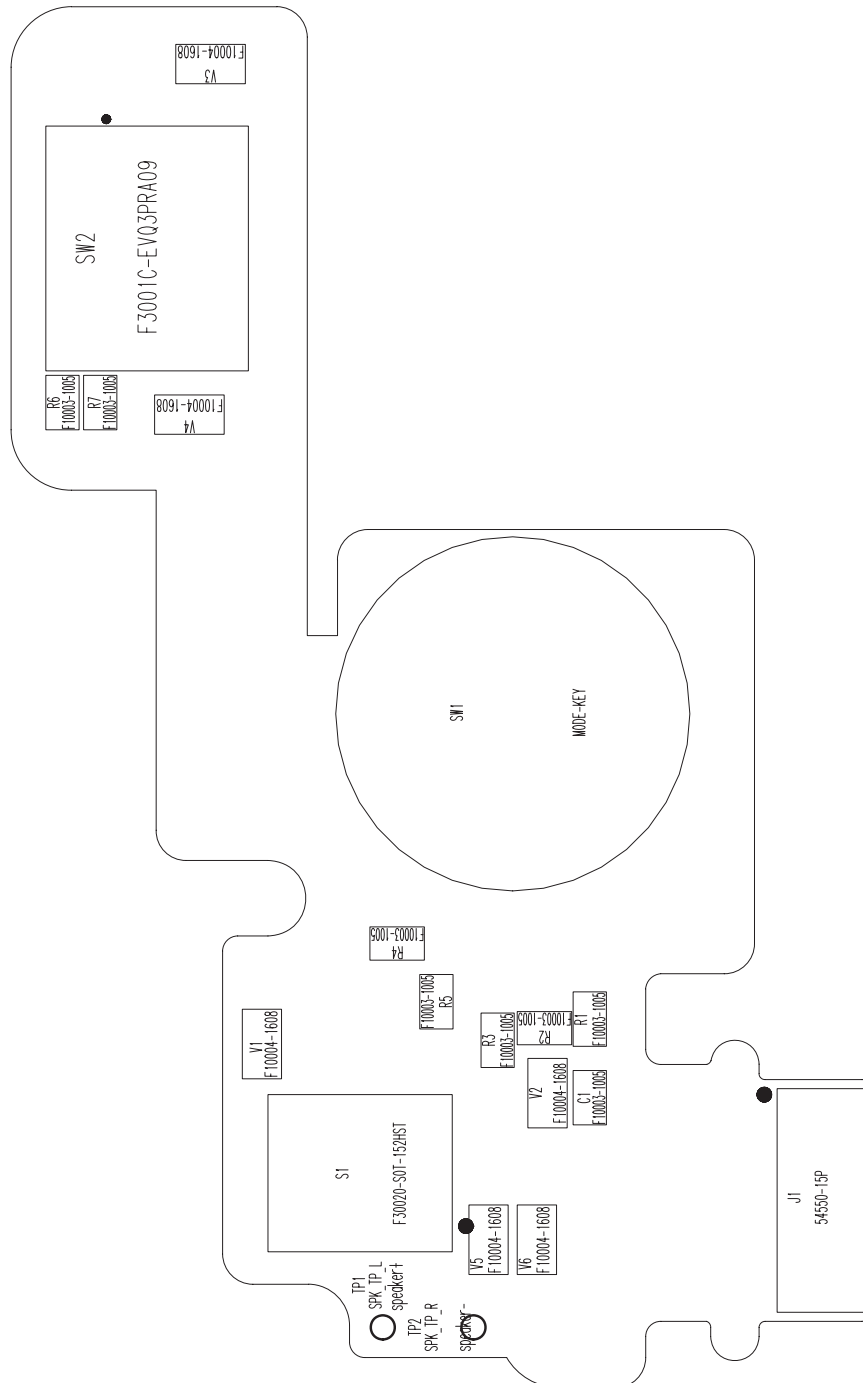


IV. PATTERN DIAGRAM

10) STROBO_BOTTOM_S3-63/S3-73

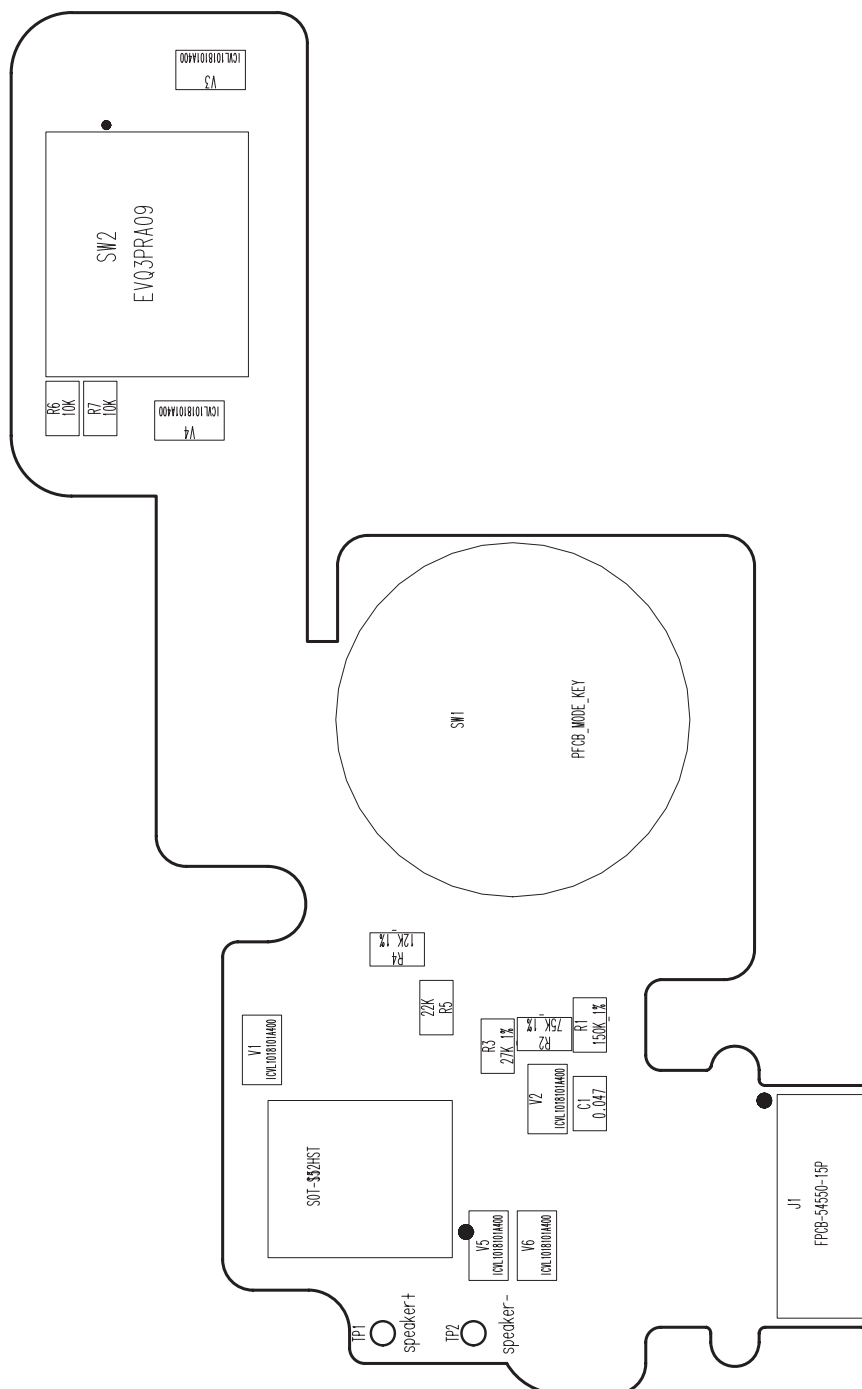


11) MODE_TOP_S3-63/S3-73



IV. PATTERN DIAGRAM

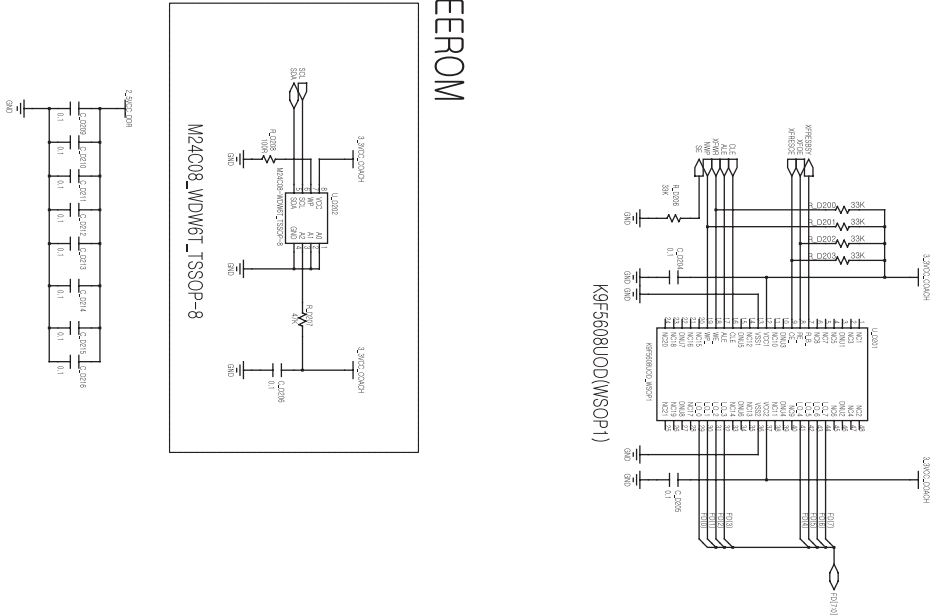
12) MODE_BOTTOM_S3-63/S3-73



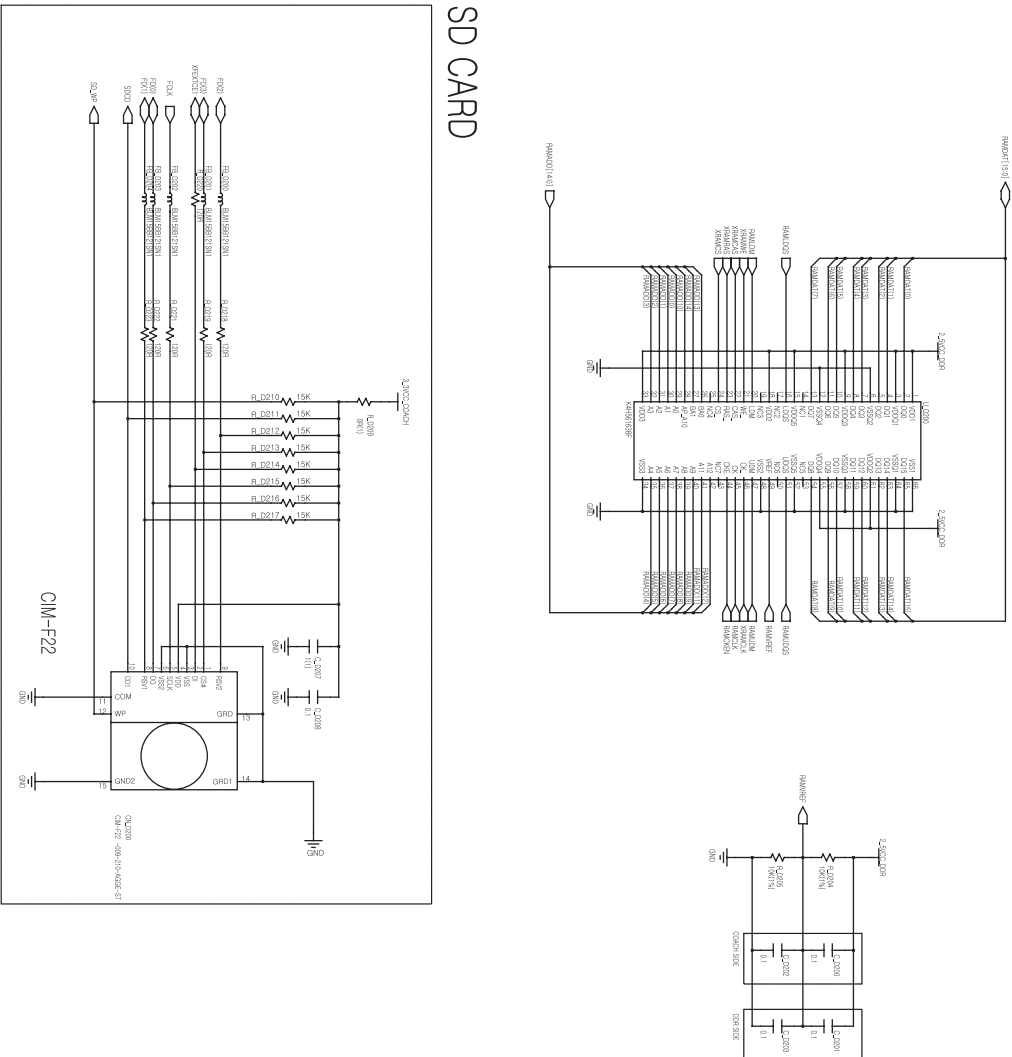
V. CIRCUIT DIAGRAM

2) MAIN_DDR_S3-63

EEROM



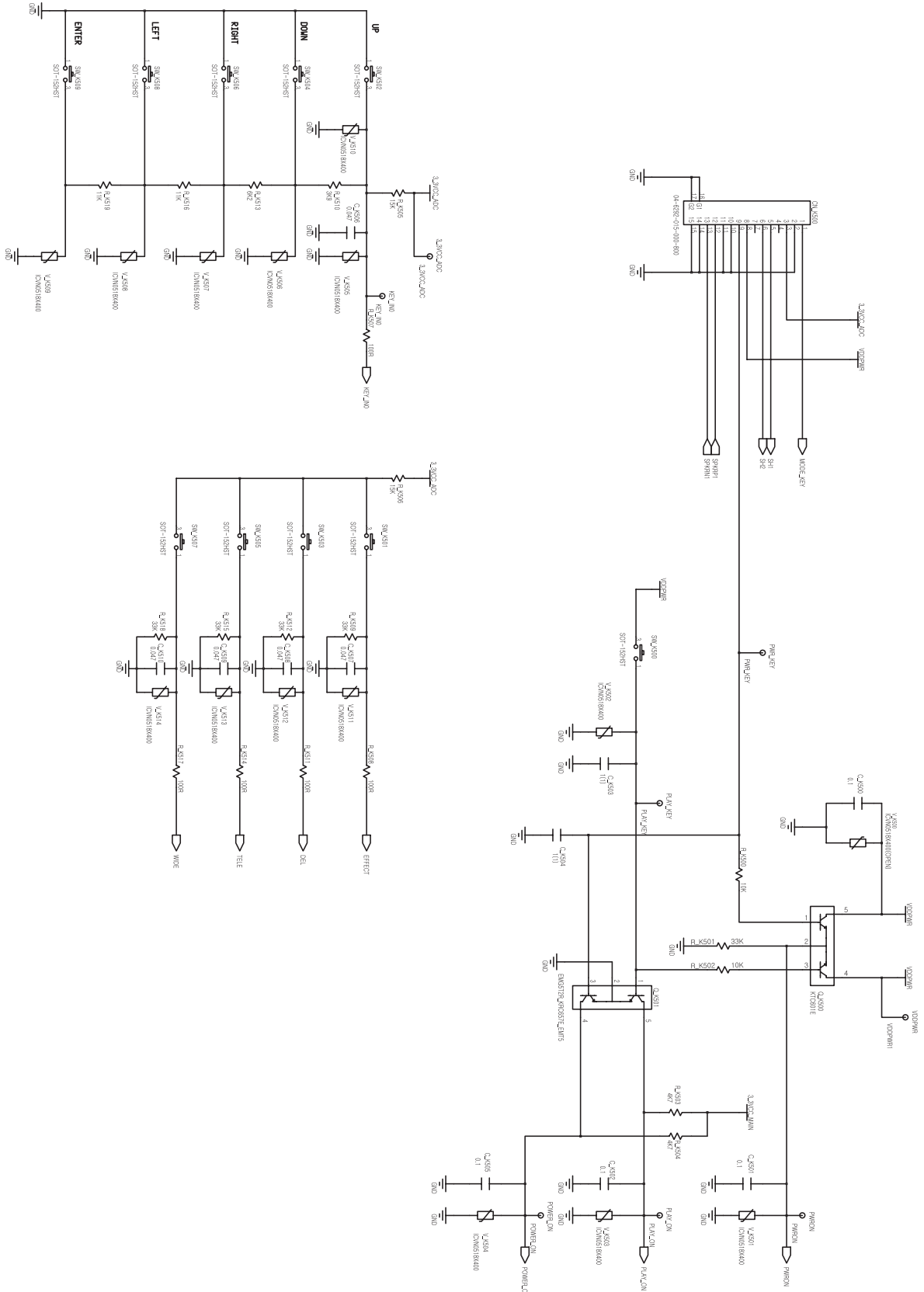
SD CARD

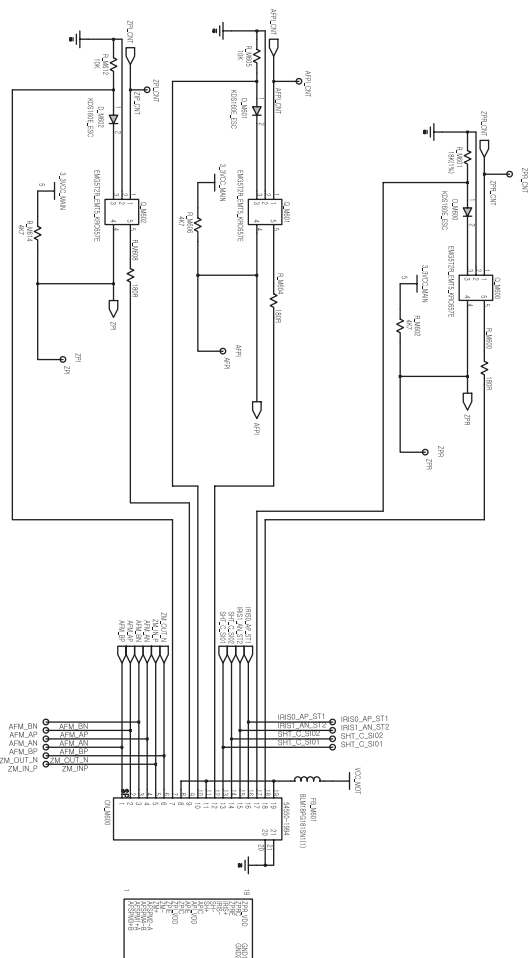


4) MAIN_I/O LCD_S3-63



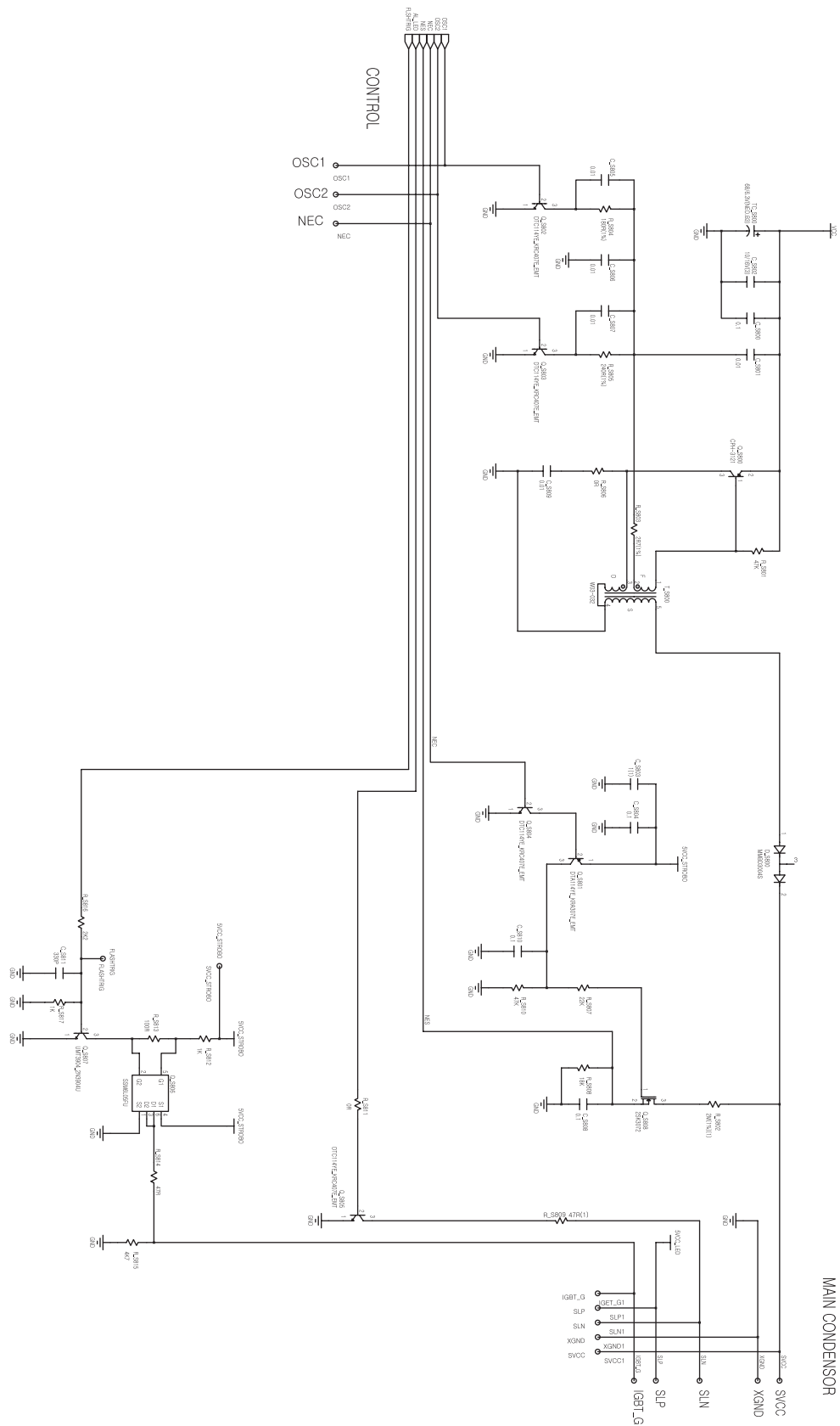
5) MAIN_KEY_S3-63



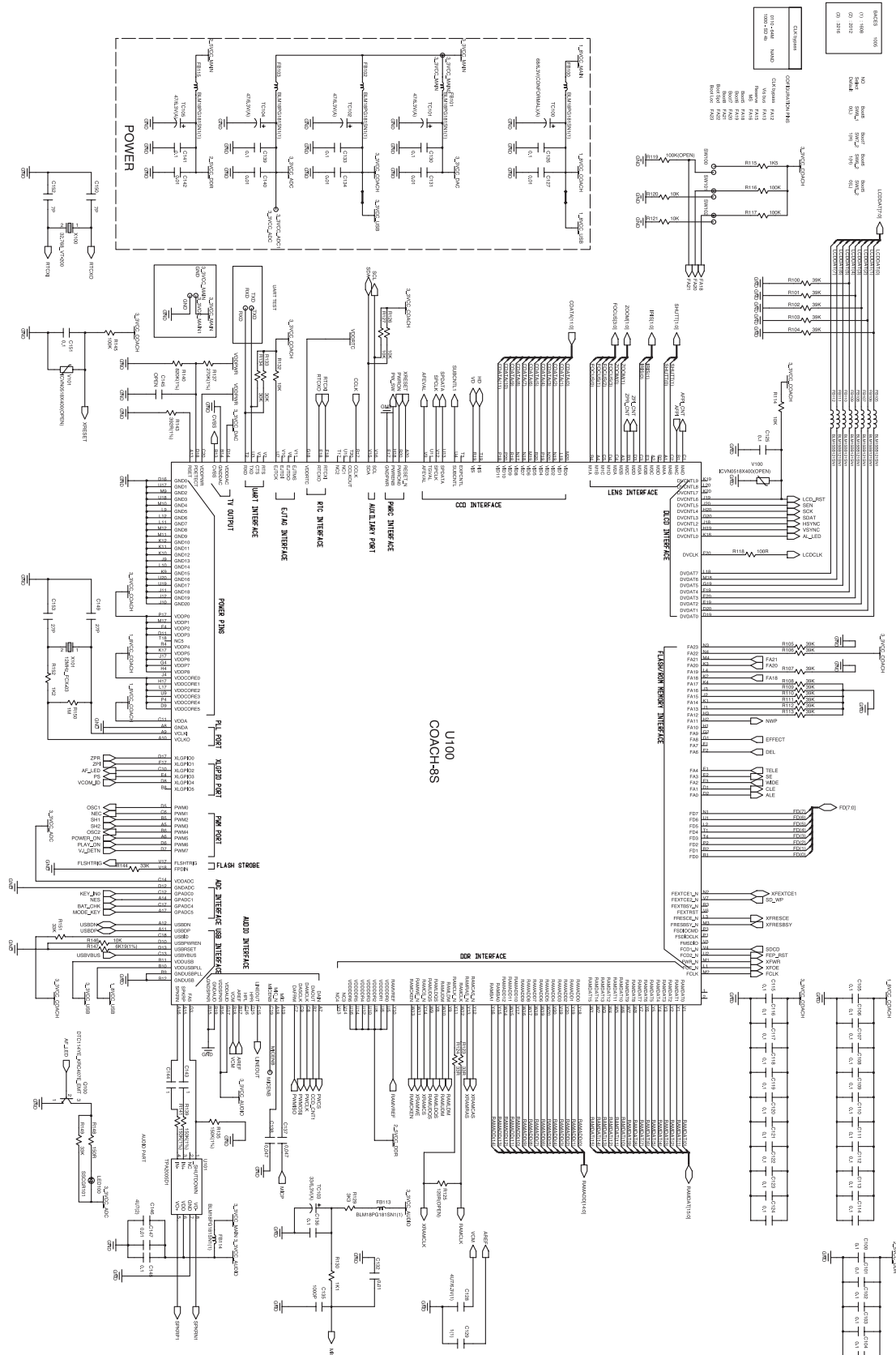


V. CIRCUIT DIAGRAM

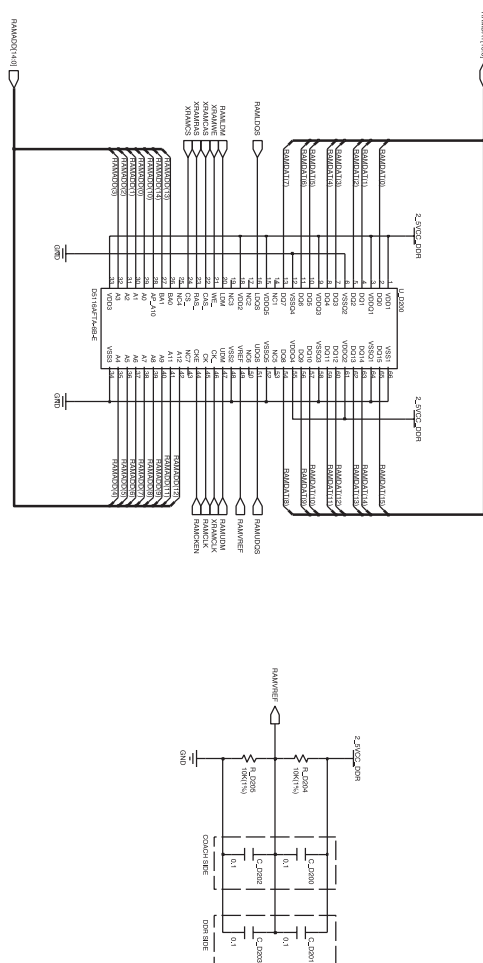
8) MAIN_STROBO_S3-63

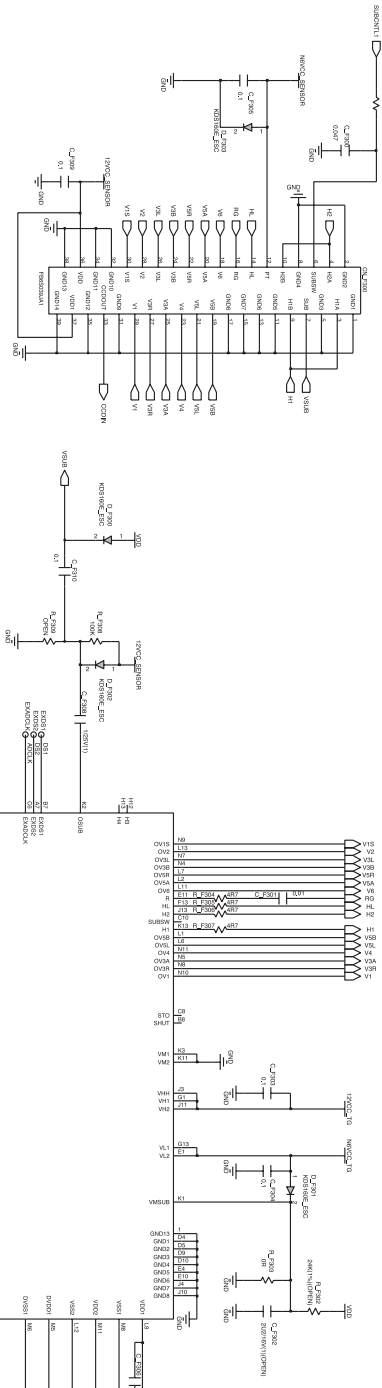


9) MAIN_S3-73

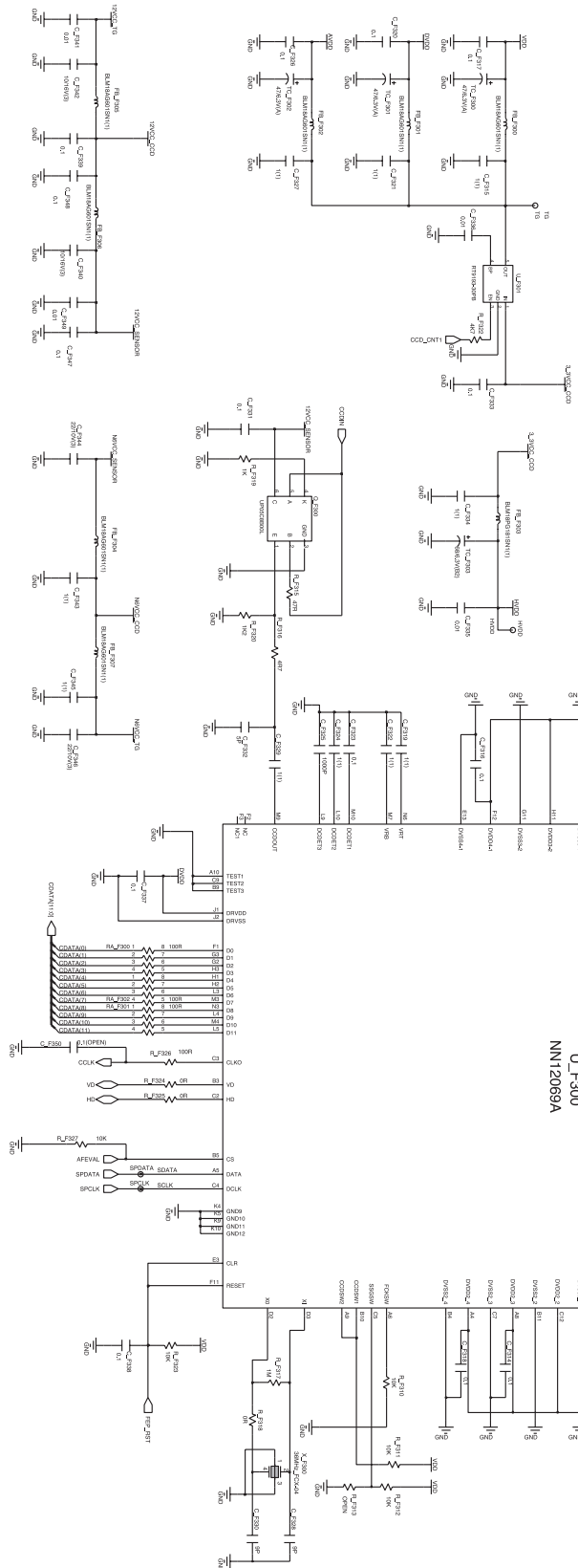


10) MAIN_DDR_S3-73

[illegible]

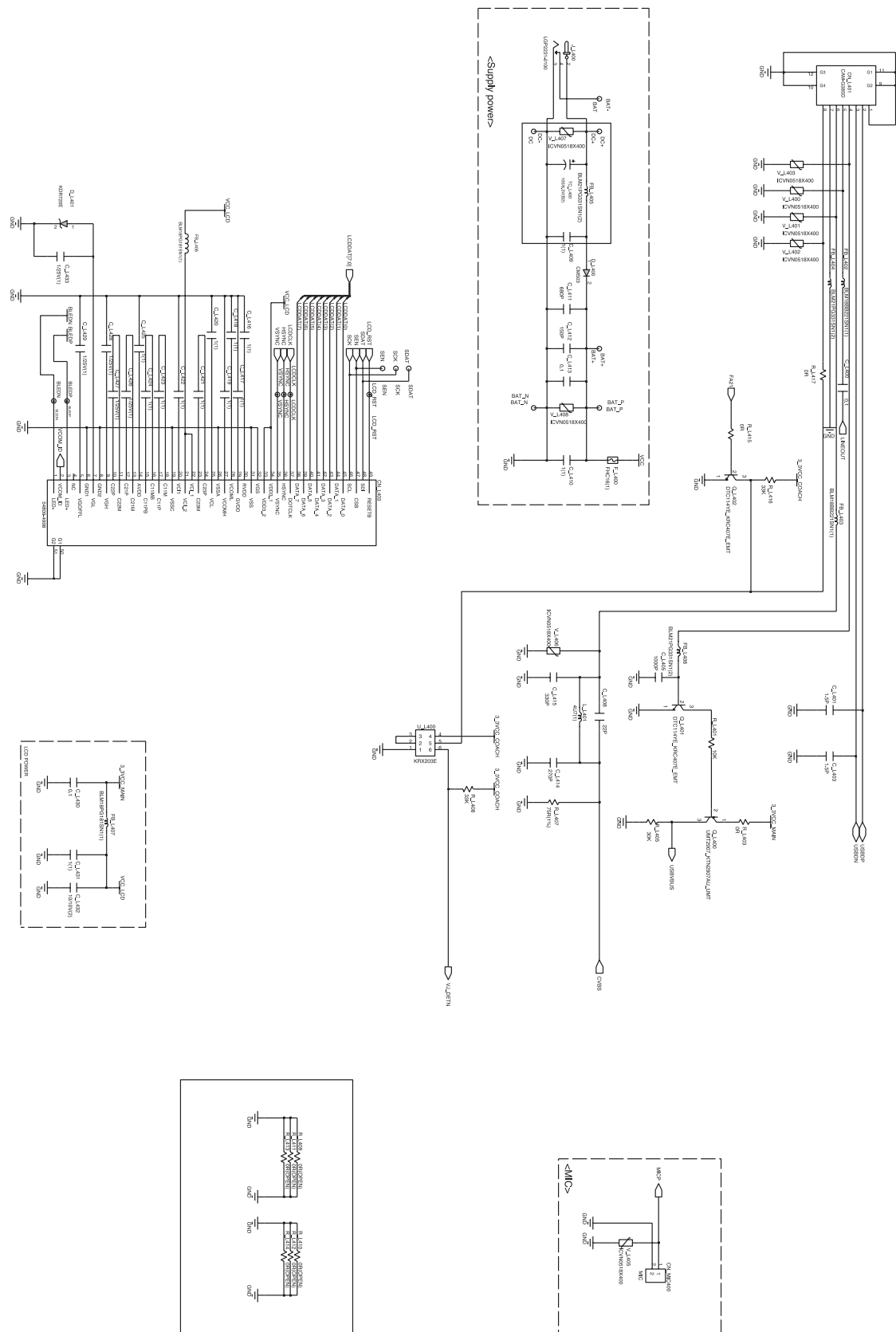


CCD POWER PART



V. CIRCUIT DIAGRAM

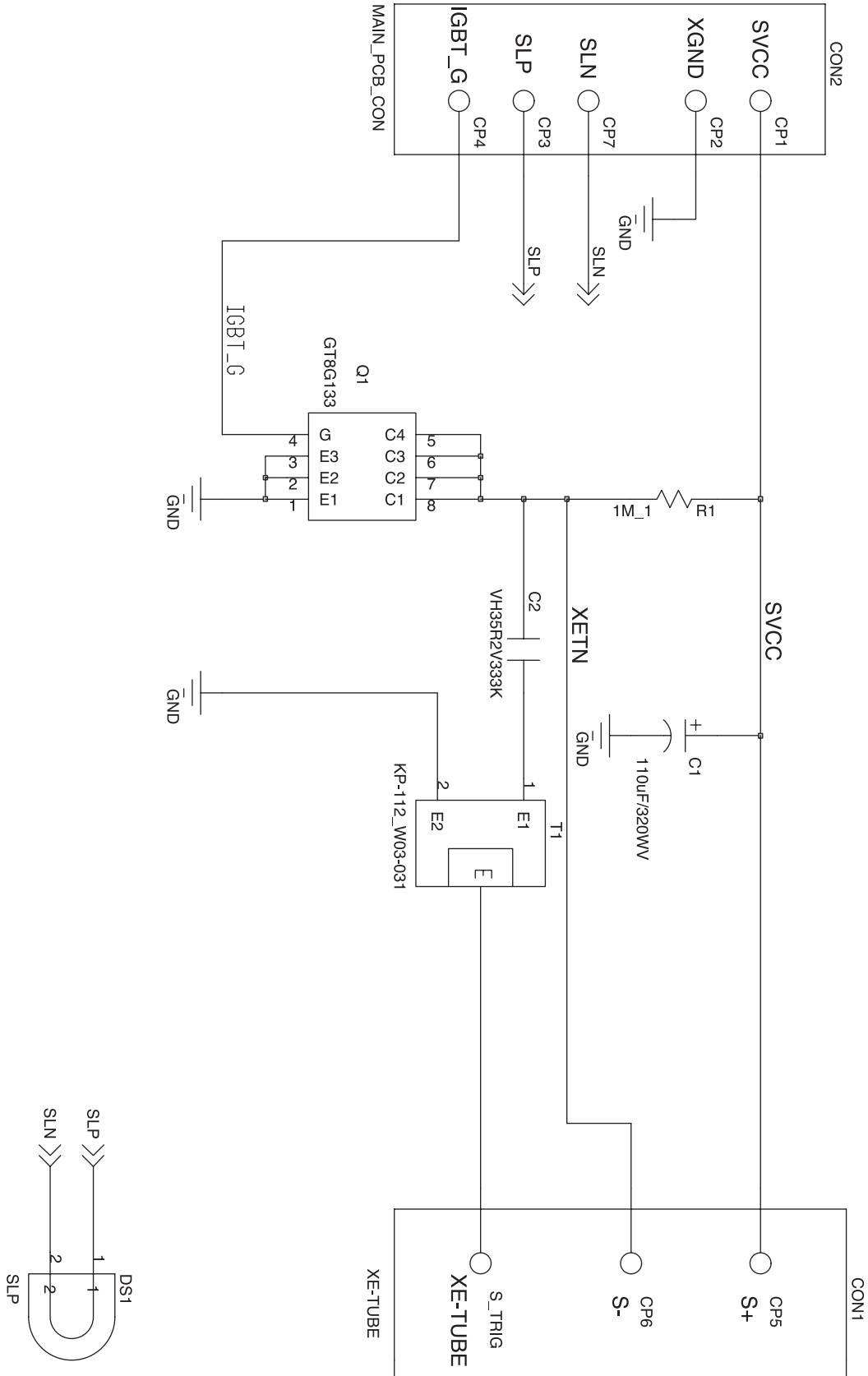
12) MAIN_I/O LCD_S3-73





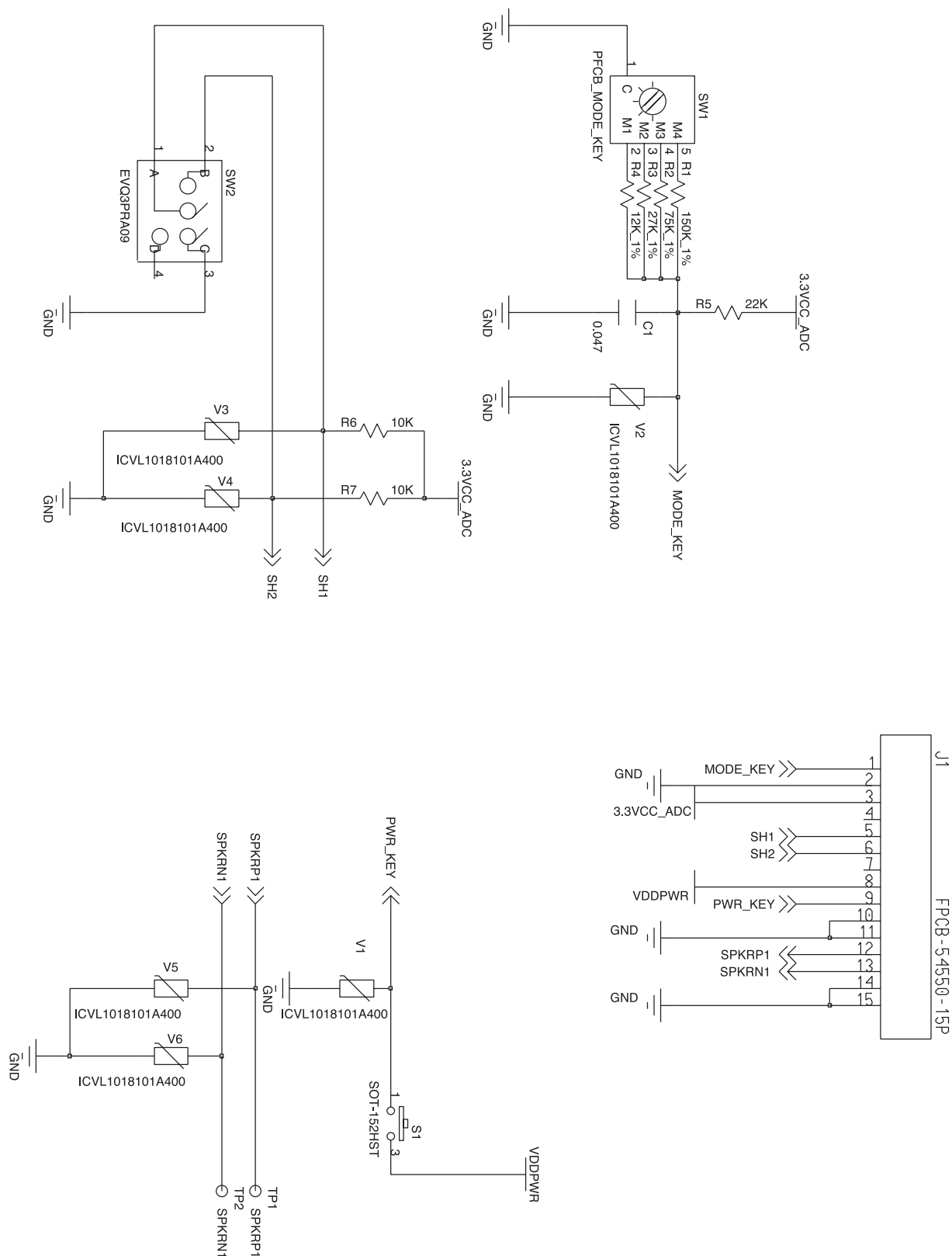


17) STROBO_S3-63/S3-73



V. CIRCUIT DIAGRAM

18) MODE_KEY_S3-63/S3-73



VI. SERVICE INFORMATION

1. The order of disassembly and assembly

■ Caution

1. Do the disassembling and assembling camera where the blocking static electricity mat is on the table.
2. When handling the major PCBs of camera, please wearing the band which cuts off the electric current on the wrist.
3. When handling the major parts, be careful of below caution.

| Parts | Caution |
|--------------|--|
| F PCB type | When assembling the F PCB to the CONNECTOR by using pincette, be careful of tearing and hooking. |
| CCD & IR CUT | Be careful of the handprinting while handling them. Using the pincette which has soft tip. The spot will be shown by using normal alchol when cleaning them. Do the repairing where is no dust. |
| PCB type | Wearing the band which cuts off the electric current and do the reparing where the blocking static electricity mat is on by preventing the defect of parts. |
| CONTACT type | Be careful of defect and change by pincette. |

■ Disassembly

1. Remove 2 screws.



2. Remove 2 screws.



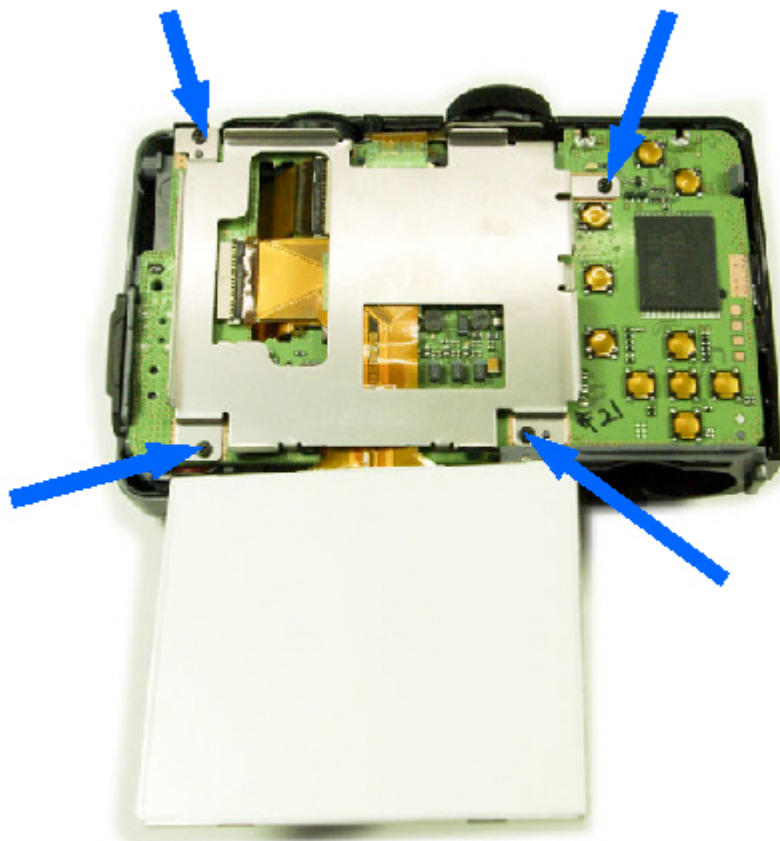
3. Remove 4 screws.



4. Disassemble the BACK COVER.



5. Remove 1 Å screw.

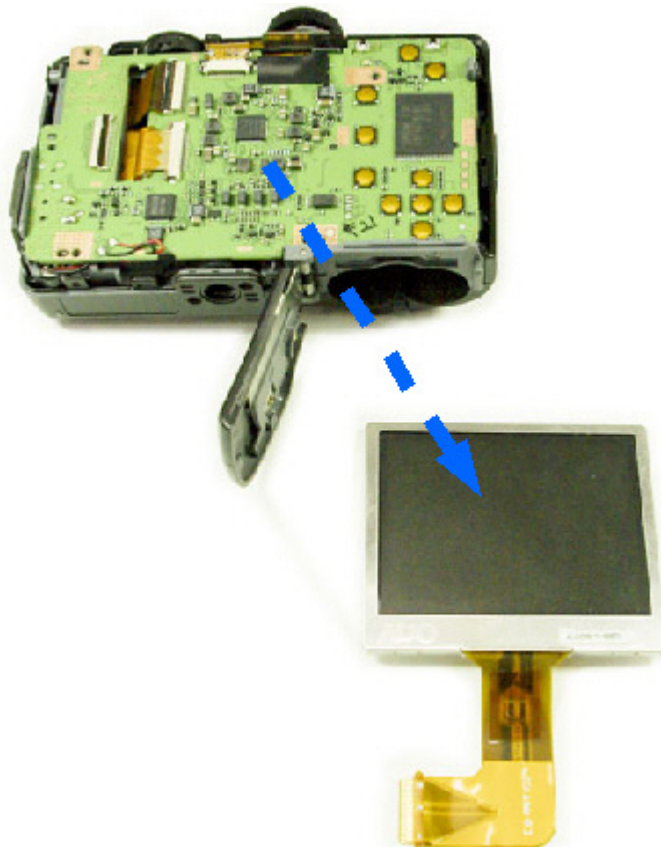


VI. SERVICE INFORMATION

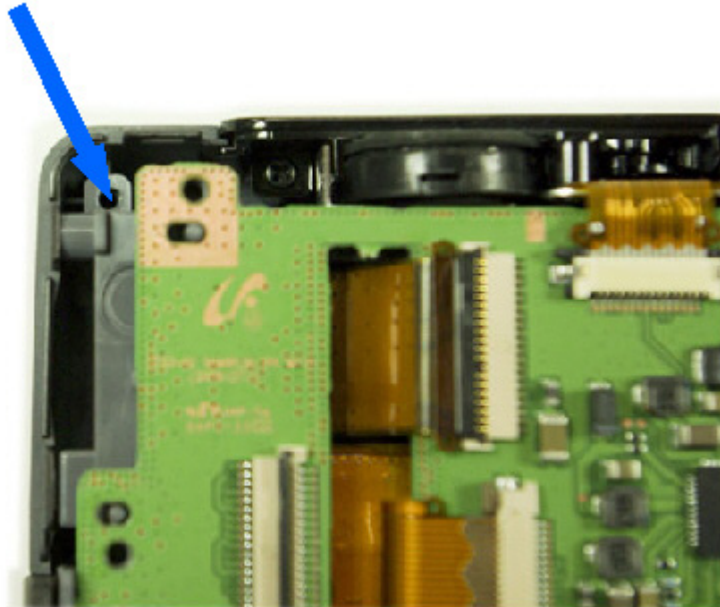
6. Disconnect the PCB from the connector.



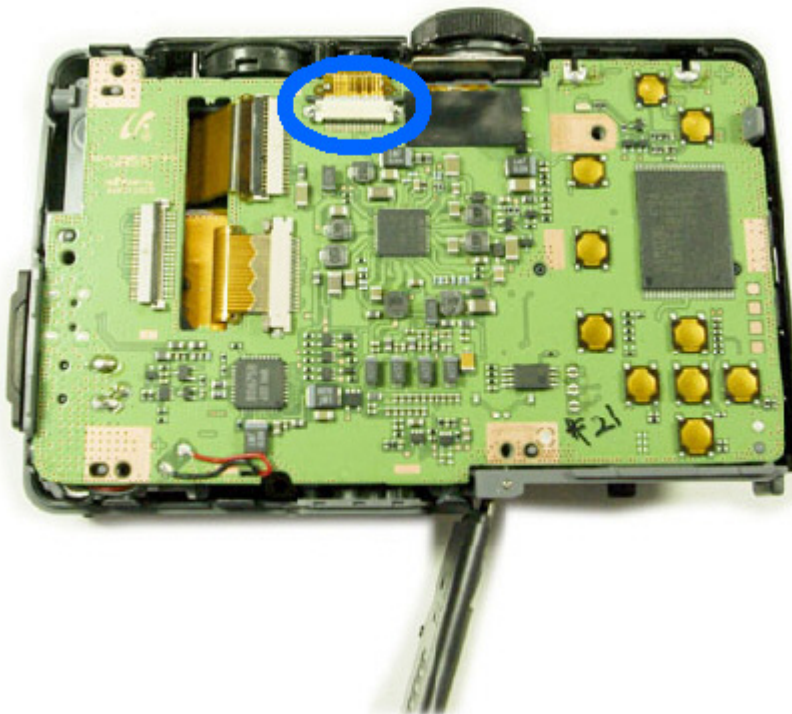
7. Disassemble the LCD ASSY.



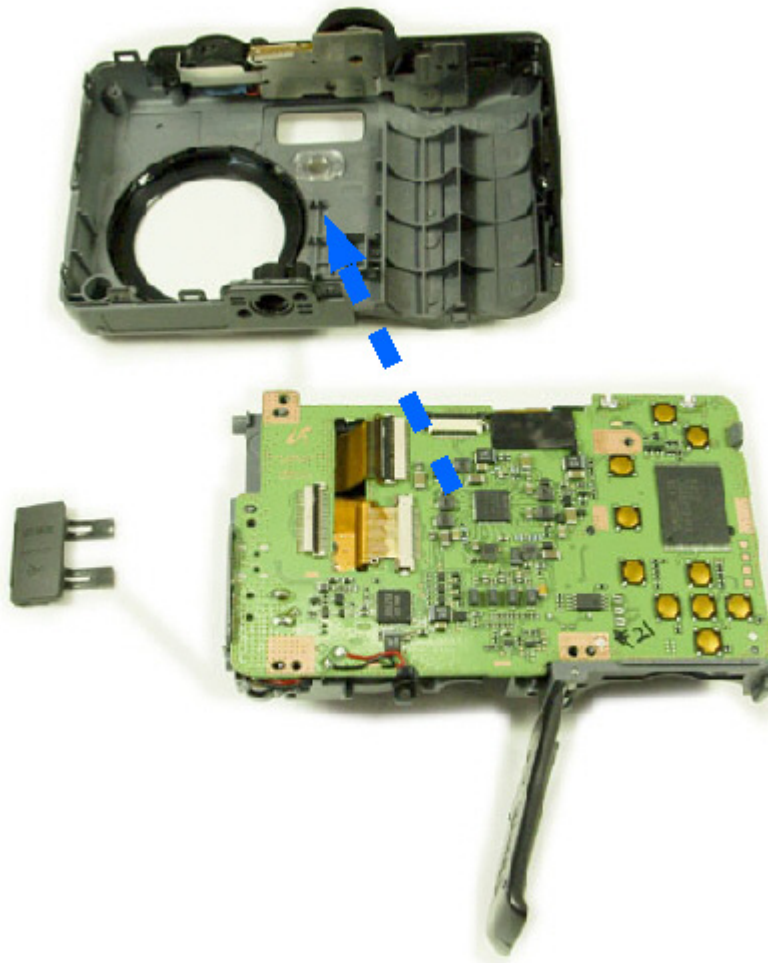
8. Remove 1 screw.



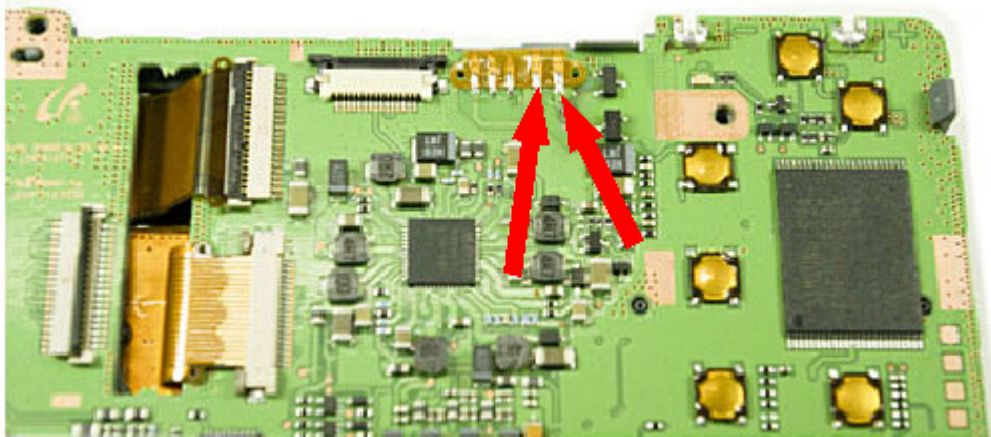
9. Disconnect the PCB from the connector.



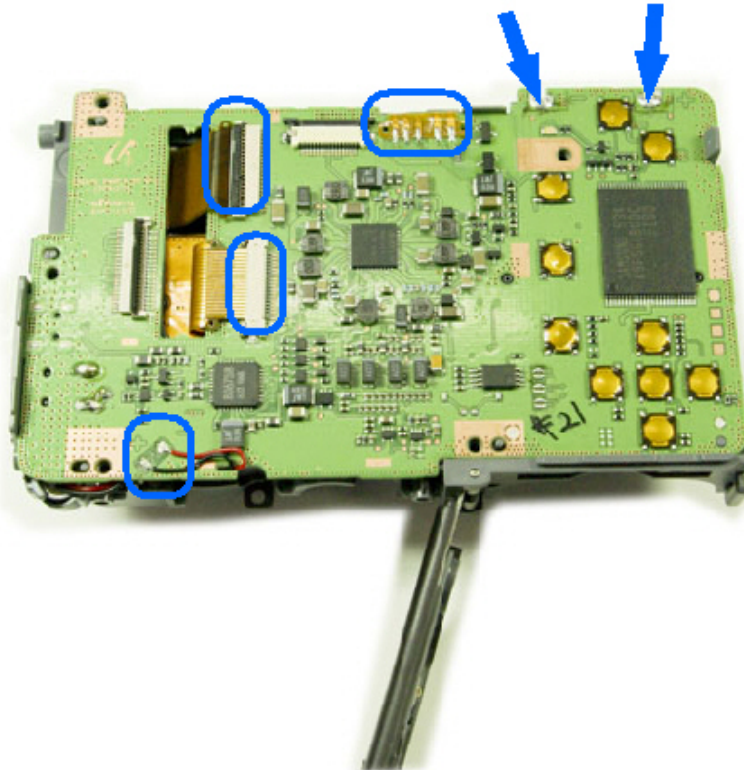
10. Disassemble the FRONT COVER.



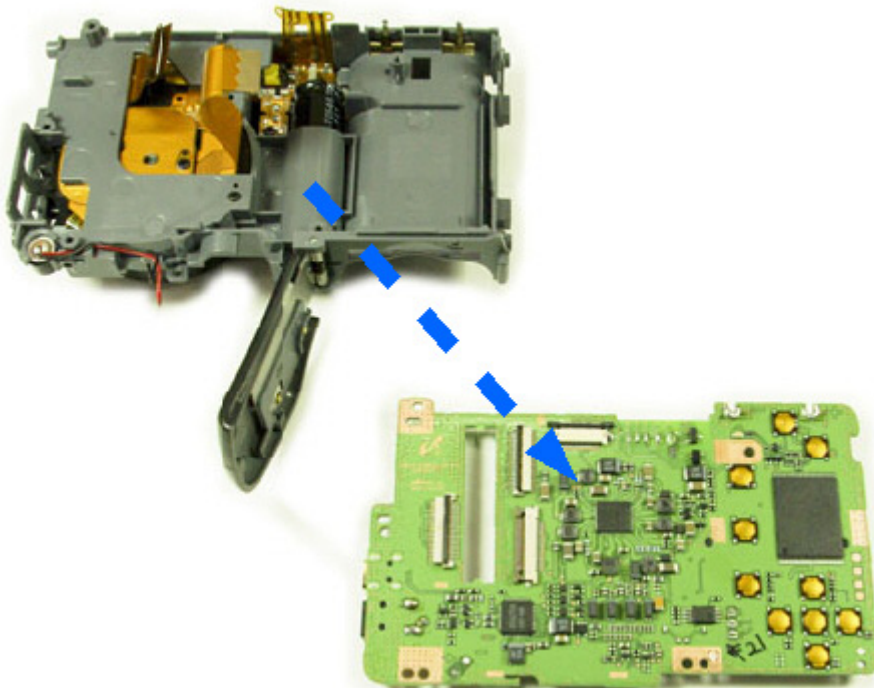
11. **Discharging point** : Before removing the PCB soldering, discharge the main condenser.



12. 1st. Removing the PCB soldering and disassemble the 2 connectors.
- 2nd. Remove the 2 soldering points of battery contacts.
- 3rd. Disassemble the 2 wires.



13. Disassemble the MAIN PCB.

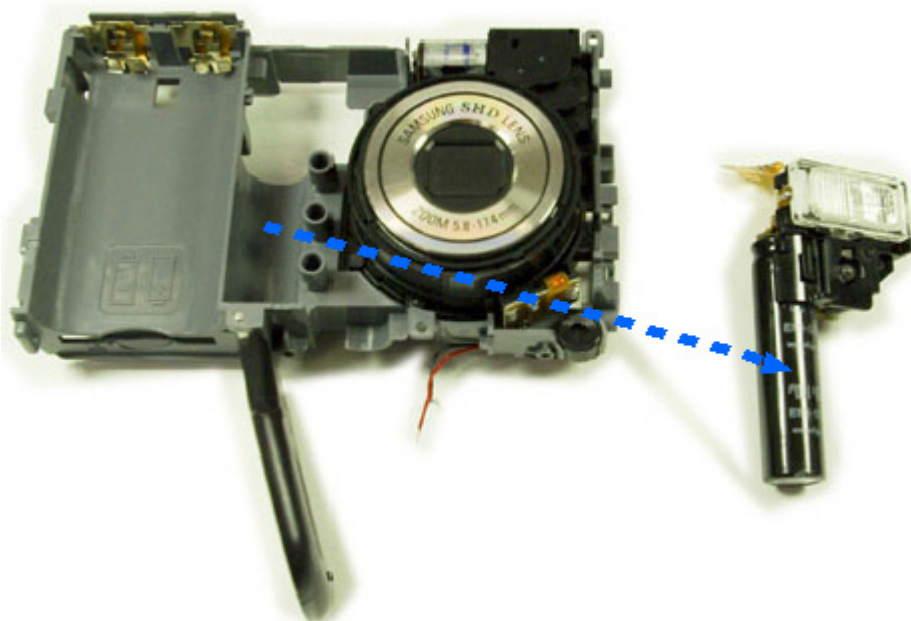


VI. SERVICE INFORMATION

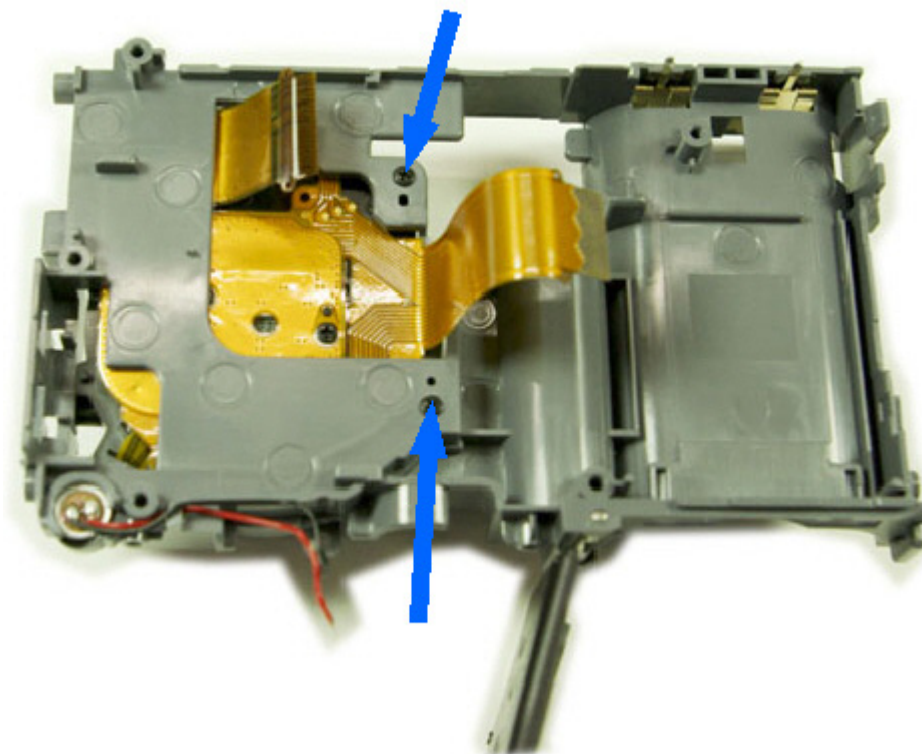
14. Remove 1Äscrew.



15. Disassemble the STROBE PCB.



16. Remove 2 screws.

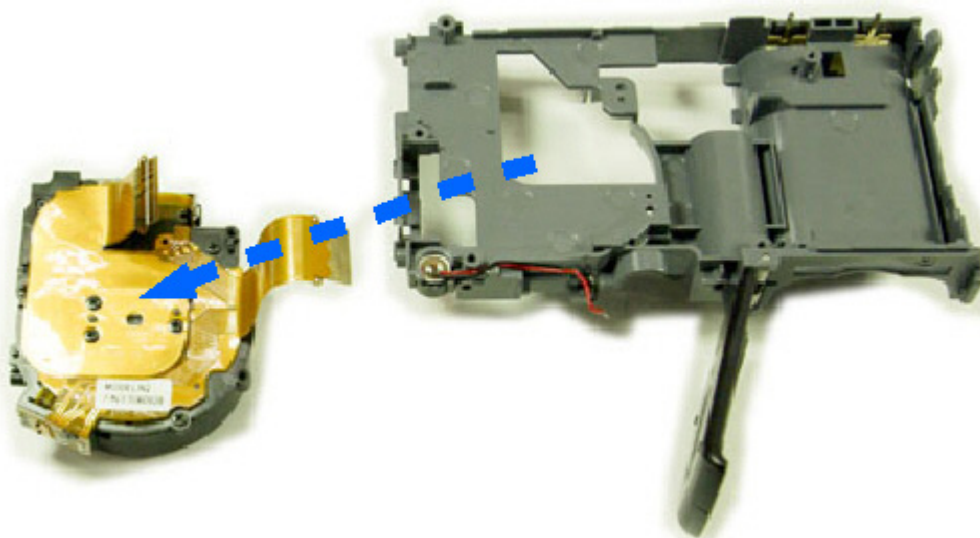


17. Remove 2 screws.



VI. SERVICE INFORMATION

18. Disassemble the Barrel.



19. Complete.

