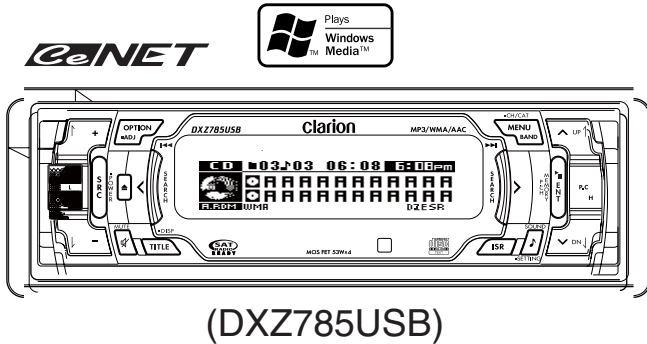


Service Manual



CD/USB/MP3/WMA/AAC Receiver with CeNET Control

Model ***DXZ785USB***
 (PE-3041B-A for U.S.A)

Model ***DXZ786USB***
 (PE-3041K-A/B for Other Countries)



This product is a lead free model.
 Lead free solder is used in PWB stamped LF mark.
 Please keep the following conditions when you repair.

1. Use lead free solder.
 - * Koki's lead free solder S3X-55M 0.6mm (CLARION Parts No.642-0231-01)
 - * Koki's lead free solder S3X-55M 1.0mm (CLARION Parts No.642-0231-02)
2. Use a nitrogen solder system.
3. Do not use "General solder" and "Lead free solder" together.

SPECIFICATIONS

FM tuner section

Frequency range: 87.9MHz to 107.9MHz (PE-3041B-A)
 87.0MHz to 108.0MHz (PE-3041K-A/B)

Usable sensitivity: 9dBf
 50dB quieting sensitivity: 15dBf
 Alternate channel selectivity: 70dB
 Stereo separation: 35dB(1kHz)
 Frequency response: 30Hz to 15kHz(+3/-3dB)

AM tuner section

Frequency range: 530kHz to 1710kHz (PE-3041B-A)
 531kHz to 1629kHz (PE-3041K-A/B)

Usable sensitivity: 25uV

CD player section

System: Compact disc digital audio system
 Usable discs: Compact disc

Frequency response: 5Hz to 20kHz(+1/-1dB)
 Dynamic range: 95dB(1kHz)
 Harmonic distortion: 0.01%

MP3/WMA/AAC mode

MP3 Sampling rate: 8kHz to 48kHz
 MP3 Bit rate: 8kbps to 320kbps / VBR
 WMA Bit rate: 8kbps to 320kbps
 AAC Sampling rate: 8kHz to 48kHz
 AAC Bit rate: 8kbps to 320kbps / VBR
 Logical format: ISO9660 level1, 2
 JOLIET or Romeo or APPLE ISO file system

Audio section

Maximum power output: 53Wx4
 Bass control action: +12/-12dB(80Hz)
 Treble control action: +12/-12dB(10kHz)
 Line output level: 5.8V(CD 1kHz)

General

Power supply voltage: 14.4V DC(10.8 to 15.6V allowable), negative ground
 Current consumption: Less than 15A
 Speaker impedance: 4ohm(4ohm to 8ohm allowable)
 Weight: Source unit 1.6kg
 Remote control unit 40g(including battery)
 Dimensions(mm): Source unit 178(W)x50(H)x158(D)
 Remote control unit 44(W)x113(H)x11(D)

NOTE

- * We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- * Specifications and design are subject to change without notice for further improvement.

* Use only compact discs bearing the  or  mark.

Some CDs recorded in CD-R/CD-RW mode may not be usable.

* Windows Media™, and the Windows® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

* WMA is the abbreviation of Windows Media Audio, an audio file format developed by Microsoft Corporation.

* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

* As for this model, the tuner of the DSP type is used. When you exchange it due to the tuner pack (BL1:880-2091E) trouble, it is necessary to adjust for S-meter etc. Special JIG is necessary for an accurate adjustment. The procedure document for the exclusive use jig is appended to it.

* This DSP IC SAF7730HN219A(051-6706-40) of main PWB is exposed die soldering pad type. The middle of this IC package is soldered with the main PWB, and it cannot remove in an ordinary soldering iron. Please use special removal JIG at the time of IC exchange.

* This unit is compatible with USB 1.1/2.0 with maximum data transfer rates of 12 Mbps. USB memory devices that can be played by connecting to the unit's USB connector are limited to those recognized as "USB mass storage class devices"; operation is not guaranteed with all USB memory devices.

* To prevent the accidental loss of data, always back up important data on your computer.

* This unit does not support connections to a computer. In addition, connections made through a USB hub device are also not supported.

* This unit supports USB Digital Media Streaming. USB Digital Media Streaming is a function used to play music files transmitted using Media Transfer Protocol (MTP). This function also supports the playback of WMDRM 10 files.

* Insert and remove a USB memory device only when the device is not being accessed. Connecting or disconnecting the device at the following times may result in the loss of data:

- If the USB memory device is removed or power is disconnected during writing to the device.

* iPod® is for legal or rightholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S and other countries.

COMPONENTS

PE-3041B-A/PE-3041K-A/B

1.	Source unit	_____	1
2.	Remote control unit	RCB-176-200	1
3.	Battery (CR2025)	_____	1
4.	Mounting bracket (PE-3041B-A)	300-8088-00	1
5.	Mounting bracket (PE-3041K-A/B)	300-7742-00	1
6.	Mounting bracket (PE-3041K-A/B)	300-4976-00	1
7.	DCP case	335-6035-04	1
8.	Escutcheon (OUT-ES)	370-6226-04	1
9.	Extension lead	854-6433-50	1
10.	RCA PIN CORD	855-5520-56	1
11.	Parts bag	_____	1
11-1.	Removal key	331-2497-00	2
11-2.	Part screw (M1.7x6) (PE-3041B-A)	716-0872-61	1
11-3.	Screw (M5x8)	716-0496-51	1
11-4.	Rubber part	345-3799-20	8

DXZ785USB/DXZ786USB

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions in soldering

Please do not spread liquid flux in soldering.

Please do not wash the soldering point after soldering.

6. Cautions in soldering for chip capacitors

Please solder the chip capacitors after pre-heating for replacement because they are very weak to heat.

Please do not heat the chip capacitors with a soldering iron directly.

7. Cautions in handling for chip parts.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc).

Please make an operation test after replacement.

8. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

9. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

10. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

11. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

11-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

11-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

11-3. Cleaning the lens

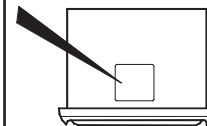
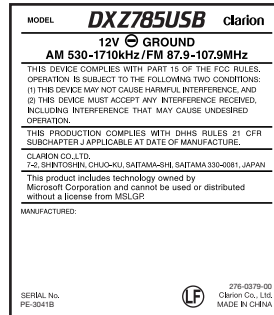
Dust on the optical lens affects performance.

To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

CAUTION

Use of controls, adjustments, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.



Bottom view of DXZ785USB

ERROR DISPLAYS

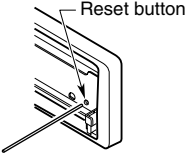
If an error occurs, one of the following displays is displayed. Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
CD/MP3/WMA/AAC	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism.
	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CD changer	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
DVD changer	ERROR 2	A DISC inside the DVD changer cannot be played.	This is a failure of DVD mechanism.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Retry or replace with a non-scratched, non-warped disc.
	ERROR 6	A DISC inside the DVD changer cannot be played because it is loaded upsidedown.	Eject the disc then reload it properly.
	ERROR P	Parental level error	Set the correct Parental level.
	ERROR R	Region code error	Eject the disc and replace correct region code disc.
USB/MTP/iPod	ERROR 2	The files are not proper MP3/WMA/AAC format.	Use only properly encoded MP3/WMA/AAC files.
	ERROR 3 (USB/MTP mode)	The MP3/WMA/AAC files are improperly encoded.	Use only properly encoded MP3/WMA/AAC files.
	ERROR 3 (iPod mode)	The iPod contains no audio files.	Insert an iPod containing audio files.
	ERROR 5	The connected devices are not recognized.	Disconnect the devices and reconnect.
	BUS-PWR	Overcurrent detection.	Disconnect the devices and reconnect. If the devices are still not recognized, try replacing with a different devices.
	HUB	The connected devices are not recognized.	Disconnect the devices and reconnect. If the devices are still not recognized, try replacing with a different devices.

* If an error display other than the ones described above appears, press the reset button.

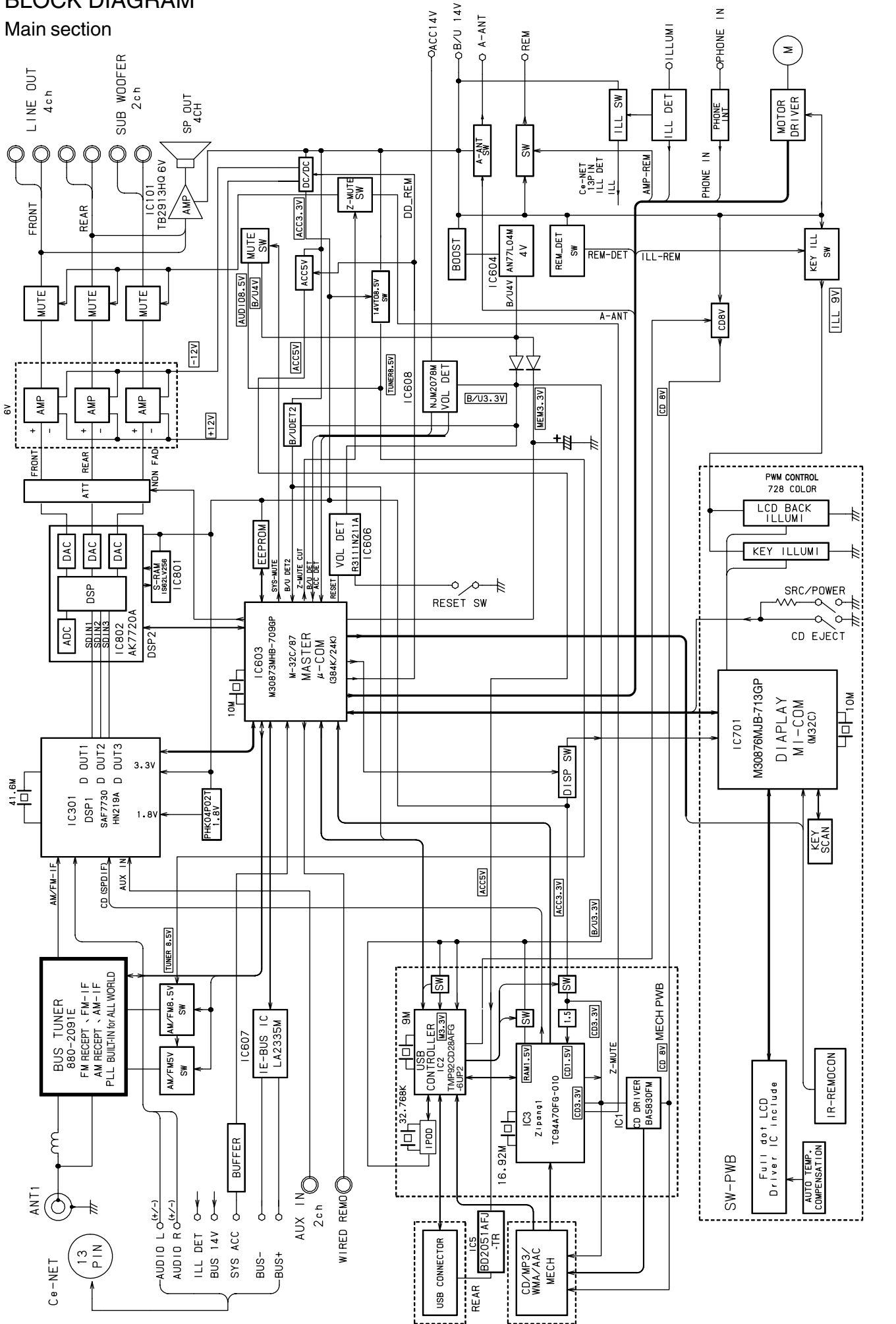
* When the power supply is turned on for the first time, the bolero microcomputer version display is mistake. It is solved by turning ACC on and off once again.

TROUBLESHOOTING

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage.
		Incorrect wiring.	Read the attached "Installation/Wire connection Guide" once again and wire properly.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	<ol style="list-style-type: none"> 1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the [RELEASE] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod.
	Display is not accurate.		
		DCP or main unit connectors are dirty.	
	No sound heard	The speaker protection circuit is operating.	Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates).
CD/MP3/WMA/AAC	No sound heard	MP3/WMA/AAC files are absent in a disc.	Write MP3/WMA/AAC files onto the disc properly.
		Files are not recognized as an MP3/WMA/AAC file.	Use MP3/WMA/AAC files encoded properly.
		File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo or APPLE ISO file system.
	Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
		Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA/AAC files are not encoded properly.	Use MP3/WMA/AAC files encoded properly.
	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
Wrong filename	File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo or APPLE ISO file system.	
USBMP3/iPod	No sound heard	The device contains no MP3/WMA/AAC files.	Record MP3/WMA/AAC files properly to the device.
		The files are not proper MP3/WMA/AAC format.	Use only properly encoded MP3/WMA/AAC files.
		Connectors are loose.	Disconnect the device and reconnect securely.
	Sound is interrupted or has noise.	The MP3/WMA/AAC files are improperly encoded.	Use only properly encoded MP3/WMA/AAC files.
	The device isn't recognized.	The device is damaged.	Disconnect the device and reconnect. If the device is still not recognized, try replacing with a different device.
		Connectors are loose.	
	According to the state of operation on the device, the communication fault is caused.	Disconnect the device and reconnect.	
Can't insert the device.	The device has been inserted improperly.	Try reversing the connection direction of the device (usually the brand name surface should be facing left).	
	The connector is broken.	Replace with a new device.	

BLOCK DIAGRAM

Main section



ADJUSTMENTS

ADJUSTMENT OF BUS-TUNER : 880-2091E

This adjustment sets some values of the tuner. The adjustment data is written in EEPROM(IC605). The special jig and software are necessary for this adjustment.

- * CeNET-analyzer
- * Personal computer
- *SG
- * Adjustment-Software: Adjustment system for DSP N217 with CeNET(Ver.Y4-S024-103-20060623)

Preparation

1. Installation of software
Execute the windows installer package in the set-folde of the writing E2P.
2. Connection
 - 1) Connect CeNET-analyzer to the unit with the CeNET-cable.
 - 2) Connect CeNET-analyzer(MASTER/SLAVE side) to the PC with the serial crossing cable.
 - 3) Connect POWER-lead of CeNET-analyzer to the POWER-lead of the unit.
 - 4) Connect the antenna to the unit.(FM-ANT for first adjustment)
 - 5) Turn on CeNET-analyzer, and press the RESET-button of it.

Set up the software

- 1) Click [ADJ_DSP].
- 2) Click [open Comm PORT].(To open the COM port of PC)
- 3) Click [Initialization of JIG].(The BUS-analyzer sounds)
- 4) Click [Incoming connection].(The unit is recognized to the BUS-analyzer)
The data is displayed, and the display changes regularly.

PRN data writing

- 1) Click [prn FILE LOAD], and select PRN-FILE.
- 2) Click [EEPROM WRITE], the PRN-data is write in EEPROM of the unit.

Adjustments

1. FM S-meter
 - 1) Set SG output to 65dBuV.(FM)
 - 2) Click [Adjustment] of "FM S-Meter".(Wait until the value stops.)
2. FM IF-Count
 - 1) Click [Adjustment] under "FM IF-COUNT".(The FM-IF-Offset data of EEPROM is effective.)
 - 2) Click [Check], and confirm the display is within +/-500.0.
3. Set up AM IF Offset data
 - * Exchange the antenna for "AM-ANT-dummy"
 - 1) Click [Adjustment] under "AM IF-COUNT".(The AM-IF-Offset data of EEPROM is effective.)
 - 2) Click [Check], and confirm the display is within +/-500.0.
4. AM S-meter
 - 1) Set SG output to 70dBuV.(AM)
 - 2) Click [Adjustment] of "AM S-Meter".(Wait until the value stops.)

Finally, push the reset button of the unit.

When computer continues to freeze, click [RESET] of "MENU", and readjust the lost adjustment point. If not returning, press the RESET-button of CeNET-analyzer and restart adjustment from the first step.

EXPLANATION OF IC

Main section

052-3977-10	M30873MHB-709GP	Main System controller
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1. Terminal Description

pin 1	: NC	: IN	: Ground.
pin 2	: OEM-REMOCON	: IN	: The steering remote controller signal input.
pin 3	: IE-BUS-TX	: O	: IE Bus serial data output.
pin 4	: IE-BUS-RX	: IN	: IE Bus serial data input.
pin 5	: AUTO-ANT	: O	: Motor antenna signal output.
pin 6	: BYTE(GND)	: IN	: Connect to VSS.
pin 7	: CNVSS	: IN	: Connect to VSS. (with internal pull-down resistor)
pin 8	: XCIN	: IN	: The crystal resonator for sub-clock.
pin 9	: XCOU	: IN	: The crystal resonator for sub-clock.
pin 10	: RESET	: IN	: The reset signal input.
pin 11	: X-OUT	: O	: The resonator for main clock.
pin 12	: GND	: -	: Ground.
pin 13	: X-IN	: IN	: The resonator for main clock.
pin 14	: VCC1	: -	: Positive power supply.
pin 15	: VCC	: -	: Positive power supply.
pin 16	: ACC-DET	: IN	: ACC detection signal input.
pin 17	: B/U-DET1	: IN	: Backup detection signal input.
pin 18	: ILL-DET	: IN	: The illumination detection signal input.
pin 19	: OFFSET-DET	: IN	: The emergency signal input from the power IC.
pin 20	: E2P-DO	: O	: The serial data output to the E2PROM.
pin 21	: E2P-SCK	: O	: The clock pulse output to the E2PROM.
pin 22	: E2P-DI	: IN	: The serial data output to the E2PROM.
pin 23	: E2P-CS	: O	: E2PROM chip selection signal output.
pin 24	: NC	: IN	: Ground.
pin 25	: NC	: IN	: Ground.
pin 26	: NC	: IN	: Ground.
pin 27	: TUN-SCL	: O	: The clock pulse output to the BUS tuner.
pin 28	: TUN-SDA	: I/O	: The serial data input/output to the BUS tuner
pin 29	: FLASH TX	: O	: The flash serial data output.
pin 30	: FLASH RX	: IN	: The flash serial data input.
pin 31	: FLASH-SCL	: IN	: Ground.
pin 32	: FLASH-BUSY	: O	: Not in use.
pin 33	: BOLERO-SDA	: I/O	: The serial data input/output to the BOLERO.
pin 34	: BOLERO-SCL	: O	: The clock pulse output when to the BOLERO.
pin 35	: Z-MUTE-CUT	: O	: The cut of conral signal output to the MUTE. (CD:H:no cut; out of CD:L:cut)
pin 36	: A-MUTE(TEST)	: IN	: Test pin.
pin 37	: EMPH	: O	: Test pin.

pin 38	: BOLERO-RESET	: O	: The reset signal output of the BOLERO.
pin 39	: FLASH-EPM	: IN	: Ground.
pin 40	: NC	: IN	: Not in use.
pin 41	: NC	: IN	: Not in use.
pin 42	: NC	: IN	: Not in use.
pin 43	: CATS-LED	: O	: CATS LED drive output.
pin 44	: FLASH-CE	: IN	: The serial data output for the flash memory.
pin 45	: NC	: O	: Not in use.
pin 46	: NC	: IN	: Not in use.
pin 47	: NC	: IN	: Not in use.
pin 48	: NC	: IN	: Not in use.
pin 49	: NC	: IN	: Not in use.
pin 50	: BOLERO-REQ	: IN	: The request signal input to the BOLERO.
pin 51	: AMP-MUTE	: O	: Muting signal output to the Audio Power Amplifier.
pin 52	: NC	: I/O	: Not in use.
pin 53	: NC	: O	: Not in use.
pin 54	: NC	: O	: Not in use.
pin 55	: DSP-RESET	: O	: Reset signal output to the DSP IC.
pin 56	: DSP-INIT	: IN	: The initial finished signal input from the Radio-Audio-DSP.
pin 57	: AMP-STBY	: O	: ON signal output to the internal Amplifier.
pin 58	: EXT-AMP-REM	: O	: ON signal output to the external Amplifier.
pin 59	: NOISE-CUT	: O	: The cut of conral signal output to the noise.
pin 60	: VCC	: -	: Positive power supply.
pin 61	: NC	: IN	: Ground.
pin 62	: GND	: -	: Ground.
pin 63	: AM/FM-ON	: O	: The 8.5V power supply ON signal output.
pin 64	: AM/FM-5V-ON	: O	: The 5V power supply ON signal output.
pin 65	: DSP2-INIT	: O	: The initial reset signal output to DSP2.
pin 66	: DSP2-RESET	: O	: The reset pulse output to DSP2.
pin 67	: DSP2-REQ	: O	: The request signal output to DSP2.
pin 68	: DSP2-SCK	: O	: The clock pulse output to DSP2.
pin 69	: DSP2-SO	: O	: The serial data output to DSP2.
pin 70	: DSP2-RDY	: IN	: The ready signal input to DSP2.
pin 71	: KEY-INT	: IN	: Key interrupting signal input.
pin 72	: B/U-DET2	: IN	: Backup detection signal input.
pin 73	: BOLERO-ACC	: O	: The ACC signal of the BOLERO.
pin 74	: PHONE-IN	: IN	: The telephone interrupt signal input.
pin 75	: AMP-REM-DET	: IN	: Remote controller wire short detection.
pin 76	: MOTOR+	: O	: The control signal output to the motor.
pin 77	: MOTOR-	: O	: The control signal output to the motor.
pin 78	: NC	: IN	: Ground.

pin 79 : CLOSE-POS1 : IN : The close position detect signal input.
pin 80 : OPEN-POS1 : IN : The open position detect signal input.
pin 81 : ILL-DET-OUT : O : Illumination ON signal output.
pin 82 : DISP-REM : O : The power supply control signal output for the
displayer.
pin 83 : NC : IN : Ground.
pin 84 : DD-REM : O : The control signal output for DC_DC_Converter.
pin 85 : DD-F-SW : O : The frequency control signal output
for DC_DC_Converter.
pin 86 : MOTOR-REM : O : Motor power ON signal output.
pin 87 : KEY-ILL-REM : O : The key illumination ON signal output.
pin 88 : DISP-RESET : O : Display reset signal output.
pin 89 : KEY-A/D : IN : The input terminal of the internal ADC
for key judgment.
pin 90 : SYS-ACC : O : ACC detection signal input.
pin 91 : SYS-MUTE : O : System muting signal output.
pin 92 : INT1 : IN : The destination setting input.
pin 93 : INT2 : IN : The destination setting input.
pin 94 : AVSS(GND) : - : Negative voltage supply for A/D converter.
pin 95 : TEST : O : Test pin.
pin 96 : VREF : O : Reference vlotage input for A/D converter .
pin 97 : AVDD : - : Positive voltage supply for A/D converter.
pin 98 : DSP-SCL : O : I2BUS serial clock output
for the Radio-Audio-DSP.
pin 99 : DSP-SDA : I/O : I2BUS serial data input/output
for the Radio-Audio-DSP.
pin100 : NC : IN : Ground.

052-7302-10 M30876MJB-713GP Switch System controller

1.Terminal Description

pin 1 : LCD-ON : O : LCD power supply.
pin 2 : INT1 : IN : The destination setting input.
pin 3 : IE-BUS-TX : O : IE Bus serial data output.
pin 4 : IE-BUS-RX : IN : Bus serial data input.
pin 5 : REMOCON : IN : Remote controller signal input terminal.
pin 6 : BYTE(GND) : IN : Connect to VSS.
pin 7 : CNVSS : IN : Connect to VSS.
pin 8 : NC : IN : Ground.
pin 9 : NC : IN : Ground.
pin 10 : RESET : IN : The reset signal input.
pin 11 : X-OUT : O : The resonator for main clock.
pin 12 : GND : - : Ground.
pin 13 : X-IN : IN : The resonator for main clock.
pin 14 : VCC : - : Positive power supply.
pin 15 : VCC : IN : Positive power supply.
pin 16 : SYS-ACC-IN : IN : ACC detect signal output.
pin 17 : NC : IN : Ground.
pin 18 : NC : IN : Ground.
pin 19 : NC : IN : Ground.
pin 20 : VARI-BLUE : O : Variable blue.
pin 21 : NC : IN : Ground.
pin 22 : VARI-GREEN : O : Variable green.
pin 23 : BACK-L-ON : O : The backlight control signal output.
pin 24 : VARI-RED : O : Variable red.
pin 25 : KEY-ILL : O : The key illumination ON signal output.
pin 26 : NC : IN : Ground.
pin 27 : NC : IN : Ground.
pin 28 : LCD-CS : O : Chip select signal output to LCD.
pin 29 : FLASH TX : O : The serial data output for flash memory.
pin 30 : FLASH RX : IN : The serial data input for flash memory.
pin 31 : FLASH-SCL : IN : Ground.
pin 32 : FLASH-BUSY : O : Not in use.
pin 33 : LCD-SI : O : The serial data input to the LCD driver.
pin 34 : LCD- AO : O : LCD driver data type control.
pin 35 : LCD-CLK : O : The clock pulse output to the LCD driver.
pin 36 : LCD-RESET : O : LCD driver reset signal output.
pin 37 : NC : IN : Ground.
pin 38 : NC : IN : Ground.
pin 39 : FLASH-EPM : IN : Ground.
pin 40 : NC : IN : Ground.
pin 41 : NC : IN : Ground.
pin 42 : NC : IN : Ground.
pin 43 : NC : IN : Ground.
pin 44 : FLASH-CE : IN : The chip enable signal input for flash memory
pin 45 : NC : IN : Ground.
pin 46 : NC : IN : Ground.
pin 47 : NC : IN : Ground.
pin 48 : NC : IN : Ground.

pin 49 : KO0 : O : Key scanning output terminal.
pin 50 : KO1 : O : Key scanning output terminal.
pin 51 : KO2 : O : Key scanning output terminal.
pin 52 : KO3 : O : Key scanning output terminal.
pin 53 : NC : IN : Ground.
pin 54 : NC : IN : Ground.
pin 55 : KI0 : IN : Key scanning input terminal.
pin 56 : KI1 : IN : Key scanning input terminal.
pin 57 : KI2 : IN : Key scanning input terminal.
pin 58 : KI3 : IN : Key scanning input terminal.
pin 59 : NC : IN : Ground.
pin 60 : VCC : - : Positive power supply.
pin 61 : NC : IN : Ground.
pin 62 : GND : - : Ground.
pin 63 : NC : IN : Ground.
pin 64 : NC : IN : Ground.
pin 65 : NC : IN : Ground.
pin 66 : NC : IN : Ground.
pin 67 : NC : IN : Ground.
pin 68 : NC : IN : Ground.
pin 69 : NC : IN : Ground.
pin 70 : NC : IN : Ground.
pin 71 : NC : IN : Ground.
pin 72 : NC : IN : Ground.
pin 73 : ILL-DET : IN : The illumination detection signal input.
pin 74 : NC : IN : Ground.
pin 75 : NC : IN : Ground.
pin 76 : NC : IN : Ground.
pin 77 : NC : IN : Ground.
pin 78 : NC : IN : Ground.
pin 79 : NC : IN : Ground.
pin 80 : NC : IN : Ground.
pin 81 : NC : IN : Ground.
pin 82 : NC : IN : Ground.
pin 83 : NC : IN : Ground.
pin 84 : NC : IN : Ground.
pin 85 : NC : IN : Ground.
pin 86 : NC : IN : Ground.
pin 87 : NC : IN : Ground.
pin 88 : NC : IN : Ground.
pin 89 : NC : IN : Ground.
pin 90 : NC : IN : Ground.
pin 91 : NC : IN : Ground.
pin 92 : NC : IN : Ground.
pin 93 : NC : IN : Ground.
pin 94 : AVSS(GND) : - : Negative voltage supply for A/D converter .
pin 95 : NC : IN : Ground.
pin 96 : VREF : IN : Reference vlotage input for A/D converter .
pin 97 : AVDD : - : Positive voltage supply for A/D converter.
pin 98 : NC : IN : Ground.
pin 99 : NC : IN : Ground.
pin100 : NC : IN : Ground.

051-6928-90 341S2094 iPod Authentication Coprocessor Specification

pin 1 : VCC : - : Supply voltage positive terminal.
pin 2 : XIN : - : 32.768 kHz crystal oscillator or external
clock sourcer.
pin 3 : XOUT : - : 32.768 kHz crystal oscillator or external
clock sourcer.
pin 4 : CLOCK_ENAB : I : CLOCK_OUT enable(active high).
pin 5 : NC : - : Not in use.
pin 6 : NC : - : Not in use.
pin 7 : I2C_SCL : I/O : I²C clock.
pin 8 : I2C_ADDR0 : I : I²C slave address selection
pin 9 : I2C_ADDR1 : I : I²C slave address selection
pin 10 : I2C_ADDR2 : I : I²C slave address selection
pin 11 : CP_READY : O : CP ready to receive next instruction
(active high).
pin 12 : MODE0 : I : Operating voltage selection.
pin 13 : MODE1 : I : Communication mode selection.
pin 14 : NC : - : Not in use.
pin 15 : I2C_SDA : I/O : I²C data.
pin 16 : MODE2 : I : Communication mode selection.
pin 17 : ROSC : I : Connect via 100k Ω 1% resistor to VCC.
pin 18 : SPI_nSS : I : SPI slave select (active low).
pin 19 : SPI_SIMO : I : SPI master-to-slave data.
pin 20 : SPI_SOMI : O : SPI slave-to-master data.
pin 21 : SPI_UCLK : I : SPI clock.

pin 22 : NC : - : Not in use.
pin 23 : NC : - : Not in use.
pin 24 : NC : - : Not in use.
pin 25 : NC : - : Not in use.
pin 26 : NC : - : Not in use.
pin 27 : NC : - : Not in use.
pin 28 : NC : - : Not in use.
pin 29 : NC : - : Not in use.
pin 30 : NC : - : Not in use.
pin 31 : NC : - : Not in use.

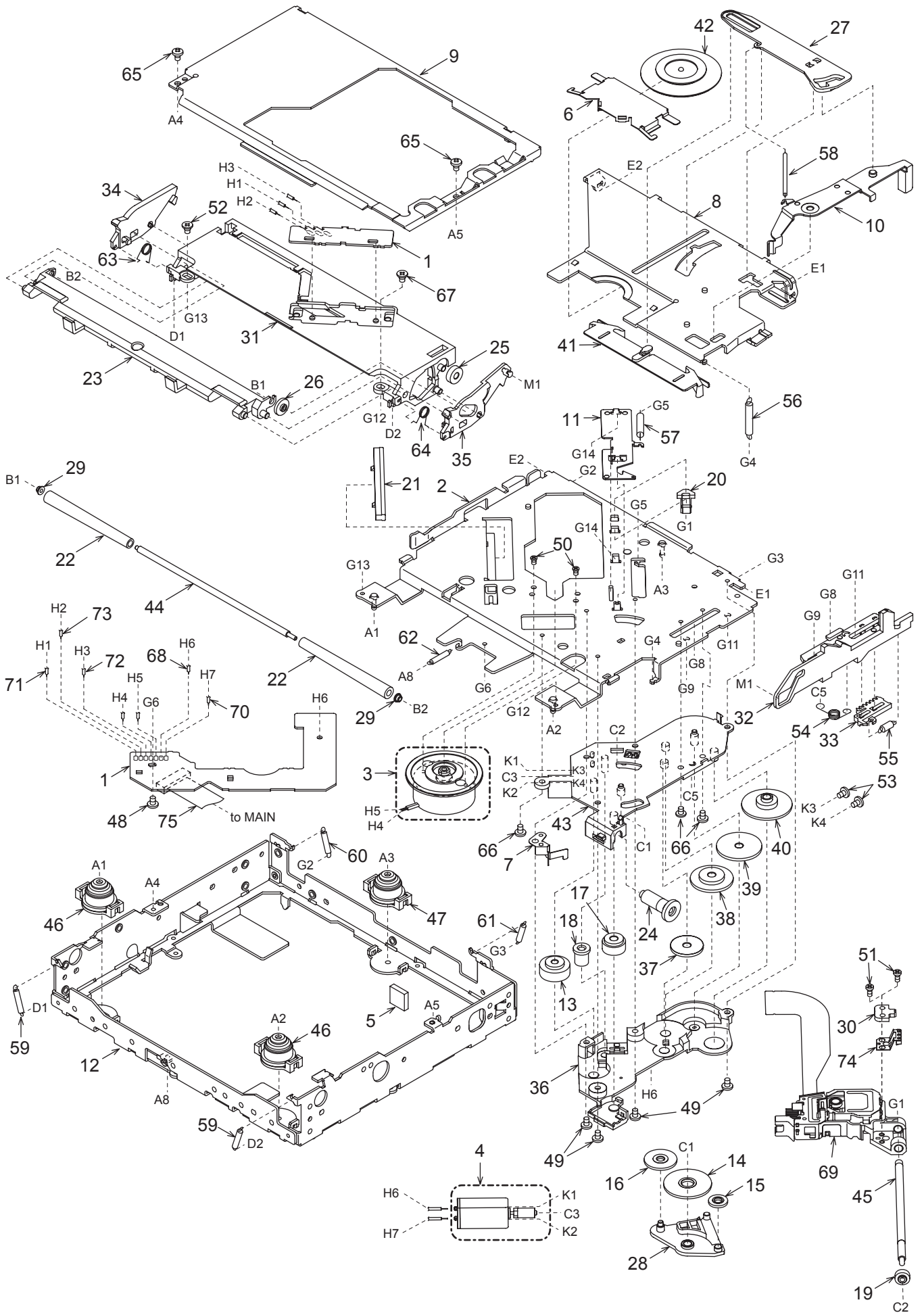
pin 32 : CLOCK_OUT : O : 32.768 kHz clock output, if selected by
CLOCK_ENAB.
pin 33 : NC : - : Not in use.
pin 34 : NC : - : Not in use.
pin 35 : NC : - : Not in use.
pin 36 : NC : - : Not in use.
pin 37 : NC : - : Not in use.
pin 38 : nRESET : I : CP reset(active low).
pin 39 : VSS : - : Supply voltage, negative terminal.
pin 40 : VCC : - : Supply voltage positive terminal.

EXPLODED VIEW / PARTS LIST

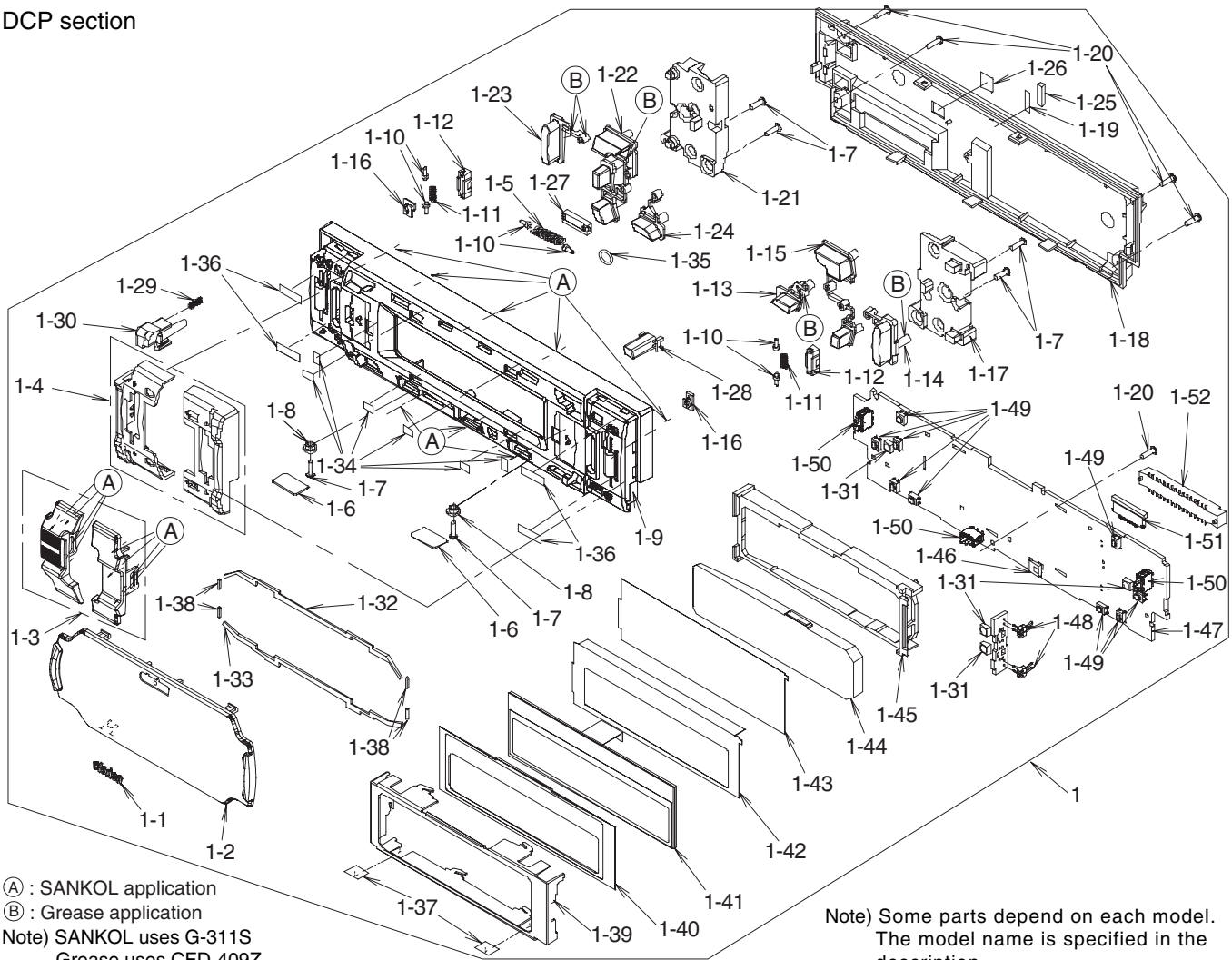
CD mechanism section: 929-5016-80

* The exploded view is on page 9

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	-----	SENSOR PWB	1	39	621-1750-20	POWER GEAR C	1
2	966-1743-21	DRIVE-PLT-ASSY	1	40	621-1751-20	POWER GEAR D	1
3	SMA-182-100	SPINDLE MOTOR-ASSY	1	41	621-1752-20	DISC STOPPER	1
4	SMA-197-100	SLED MOTOR-ASSY	1	42	621-1753-20	CLAMPER RING	1
5	345-5476-20	CUSHION RUBBER	1	43	621-1754-20	GEAR BASE	1
6	620-1023-23	CLAMPER PLATE	1	44	622-1571-21	ROLLER SHAFT	1
7	620-1026-21	SPRING PLATE	1	45	624-0020-00	LEAD SCREW	1
8	620-1596-23	CLAMPER LINK	1	46	629-0081-21	DAMPER F	2
9	620-1598-22	UPPER CHASSIS	1	47	629-0082-21	DAMPER R	1
10	620-1752-20	SENSOR ARM	1	48	716-1507-01	SCREW(M2x3)	1
11	620-1753-20	ID-LOCK PLATE	1	49	716-1670-01	SCREW(M2x4)	4
12	620-1766-20	LOWER CHASSIS	1	50	716-1733-01	SCREW(M1.7x2.3)	2
13	621-0608-21	SECOND GEAR	1	51	716-3469-01	SCREW(1.7x4)	2
14	621-0609-20	BASE GEAR	1	52	716-3473-01	SCREW(M2x3)	1
15	621-0610-20	IDLE GEAR A	1	53	716-3551-00	SCREW(M1.4x2.5)	2
16	621-0611-20	IDLE GEAR B	1	54	750-7865-20	SHIFT SPRING	1
17	621-0612-21	ROLLER GEAR A	1	55	750-7866-20	RACK SPRING	1
18	621-0620-20	THREAD GEAR A	1	56	750-7867-20	CLAMPER SPRING	1
19	621-0621-20	THREAD GEAR B	1	57	750-7868-20	ID-LOCK SPRING	1
20	621-0623-23	LS-HOLDER	1	58	750-7869-20	SENSOR SPRING	1
21	621-0624-22	GUIDE RAIL	1	59	750-7870-20	DR-SPRING F	2
22	621-0711-21	LOADING ROLLER	2	60	750-7871-20	DR-SPRING RA	1
23	621-0718-21	ROLLER GUIDE	1	61	750-7872-20	DR-SPRING RB	1
24	621-0719-20	ROLLER GEAR	1	62	750-7873-20	DR-SPRING C	1
25	621-0720-20	ROLLER GEAR C	1	63	750-6797-20	ROLLER SPRING L	1
26	621-0721-20	ROLLER GEAR D	1	64	750-6798-20	ROLLER SPRING R	1
27	621-0728-20	STOPPER LINK	1	65	714-2003-8B	SCREW(M2x3)	2
28	621-1719-20	IDLE CASE	1	66	780-2025-00	SCREW(M2x2.5)	3
29	621-1726-20	ROLLER SLEEVE	2	67	781-1730-00	SCREW(M1.7x3)	1
30	621-1729-20	SH-BASE	1	68	803-4906-60	VINYL-COAT-WIRE(ORG)	1
31	621-1742-20	UPPER GUIDE	1	69	969-0071-30	PICKUP-ASSY	1
32	621-1743-20	SHIFT LEVER	1	70	816-2590-00	SPECIAL LEAD(GRN)	1
33	621-1744-20	RACK	1	71	816-2591-00	SPECIAL LEAD(YEL)	1
34	621-1745-20	LOCK ARM L	1	72	816-2592-00	SPECIAL LEAD(BLUE)	1
35	621-1746-20	LOCK ARM R	1	73	816-2593-00	SPECIAL LEAD(PUR)	1
36	621-1747-20	GEAR COVER	1	74	966-1722-20	SH-RACK-ASSY	1
37	621-1748-20	POWER GEAR A	1	75	816-2624-50	FLAT WIRE	1
38	621-1749-20	POWER GEAR B	1				



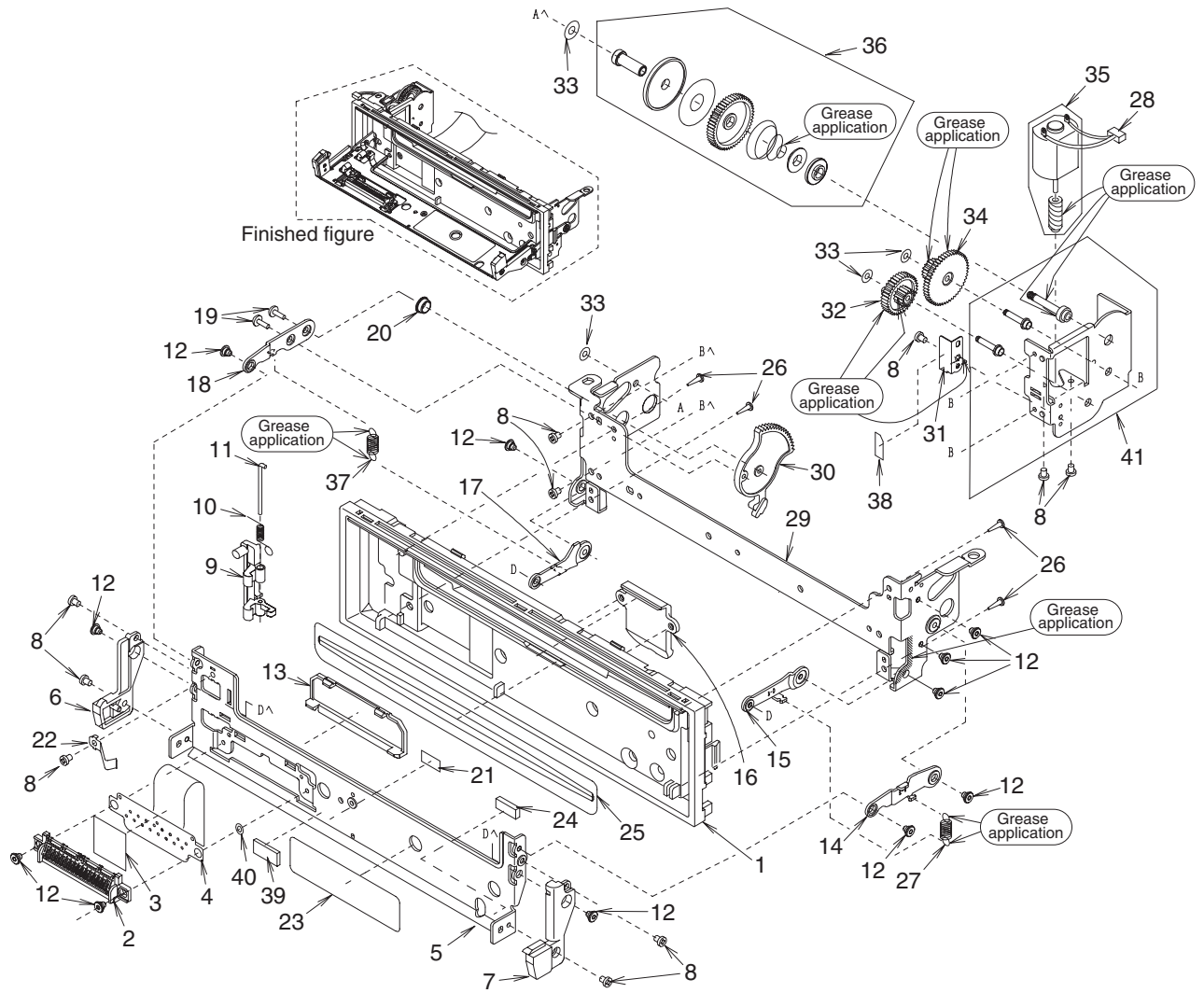
DCP section



NO.	PART NO.	DESCRIPTION	Q'TY
1	DCP-607-600	DCP ASSY(PE-3041B-A)	1
	DCP-629-800	DCP ASSY(PE-3041K-A/B)	1
1-1	335-7724-00	BRAND	1
1-2	373-1125-10	SEEK PLATE(PE-3041B-A)	1
	373-1125-24	SEEK PLATE(PE-3041K-A/B)	1
1-3	947-0738-00	VOLUME BARS	1
1-4	947-0737-00	SIDE PARTS ASSY	1
1-5	750-6856-00	SPRING	1
1-6	347-8210-00	TRIM CVR	2
1-7	716-0872-51	SCREW(M1.7x6)	6
1-8	335-8004-01	ROLLER	2
1-9	370-6260-14	ESCUTCHEON(PE-3041B-A)	1
	370-6260-16	ESCUTCHEON(PE-3041K-A/B)	1
1-10	335-7989-00	SPRING CAP	6
1-11	750-6825-00	SPRING	2
1-12	335-8005-00	SPRING CVR	2
1-13	382-8169-04	BUTTON(ISR)	1
1-14	382-8165-00	BUTTON(ENT)	1
1-15	382-8166-02	BUTTON(SOUND)	1
1-16	335-7985-00	INDICATOR-A	2
1-17	335-7987-00	ILLUMI PLATE(R)	1
1-18	335-6899-02	REAR CVR	1
1-19	347-6628-00	SPACER FILM	1
1-20	716-0872-62	SCREW(M1.7X6)	5
1-21	335-7986-01	ILLUMI PLATE(L)	1
1-22	382-8164-02	BUTTON(EJECT)	1
1-23	382-8163-00	BUTTON(SRC)	1
1-24	382-8168-02	BUTTON(TITLE)	1

NO.	PART NO.	DESCRIPTION	Q'TY
1-25	345-8647-00	CUSHION	1
1-26	347-6977-00	COVER FILM	1
1-27	335-7992-00	SPRING CVR	1
1-28	335-7984-00	IR FILTER	1
1-29	750-6720-00	SPRING (REL)	1
1-30	382-8167-00	RELEASE BUTTON	1
1-31	001-7088-90	DIODE	4
1-32	347-8245-00	LEATHER SHEET	1
1-33	347-8246-00	LEATHER SHEET	1
1-34	347-8251-00	FILM	6
1-35	347-7347-00	SPACER FILM	1
1-36	347-8249-00	DOUBLE FACE	4
1-37	347-8252-00	FILM	2
1-38	347-8208-00	LEATHER SHEET	4
1-39	331-4373-00	LCD COVER	1
1-40	347-8213-00	SHAFT	1
1-41	379-1381-81	INDICATOR(LCD)	1
1-42	347-8212-00	FILM	1
1-43	347-8211-00	FILM	1
1-44	335-7351-00	ILLUMI PLATE	1
1-45	335-7988-00	LCD HOLDER	1
1-46	060-4017-90	IR-RECIEVER	1
1-47	-----	SWITCH PWB	1
1-48	076-0708-02	PLUG	2
1-49	013-6524-50	TACT SWITCH	9
1-50	013-7419-00	SWITCH	3
1-51	074-2226-71	OUTLET SOCKET(21P)	1
1-52	076-0647-00	PLUG (16P)	1

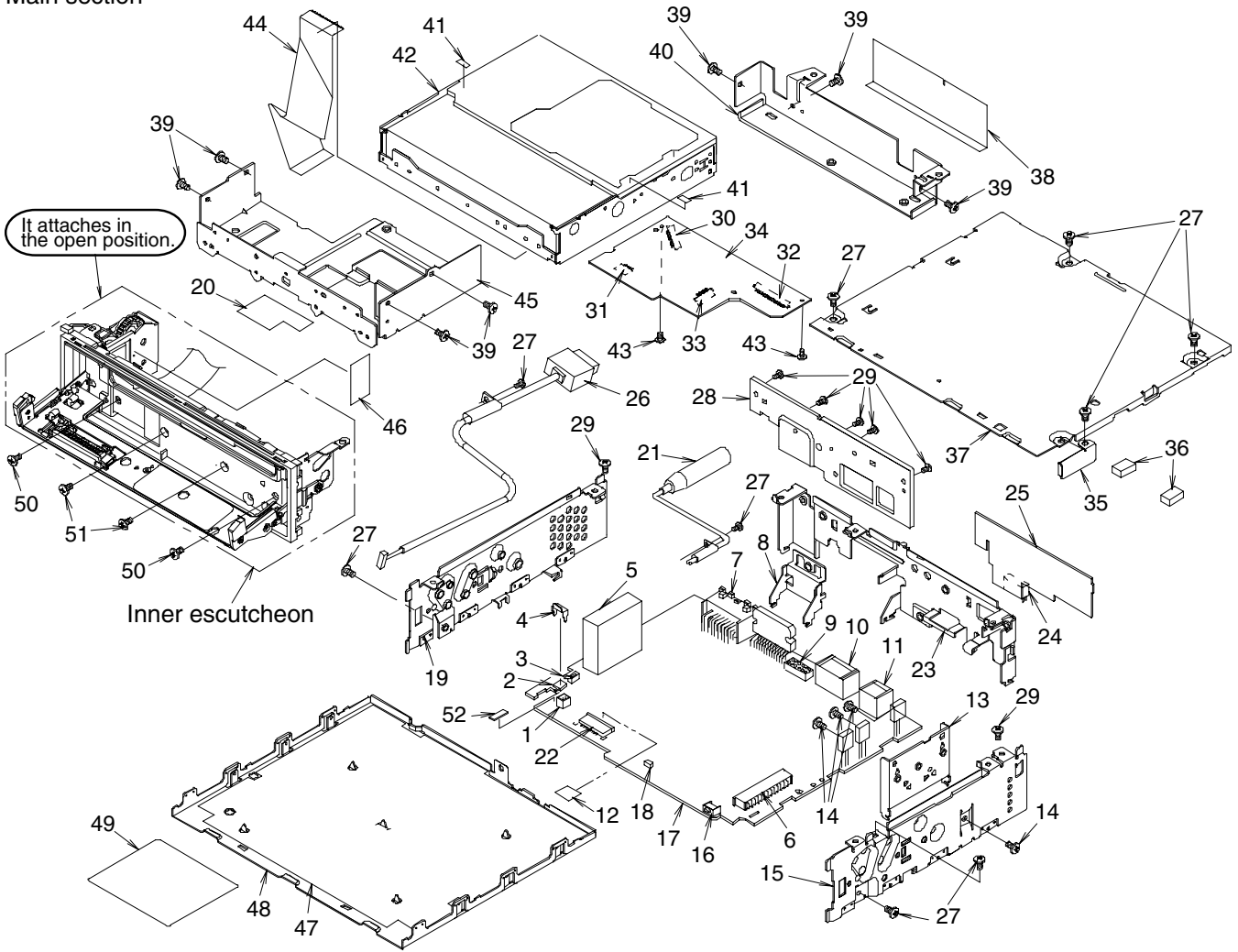
Inner escutcheon section



Note): Grease uses FLOIL 31SB

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	370-5935-07	INNER ESCUTCHEON	1	21	347-6527-01	CUSHION	1
2	074-1278-01	OUTLET SOCKET(16P)	1	22	750-3457-00	SPRING	1
3	347-6528-00	INSULATOR	1	23	291-0102-02	STICKER	1
4	039-2409-05	INNER ES FPC (WITHOUT COMPONENT)	1	24	345-8627-01	CUSHION	1
5	331-3115-01	DCP HOLDER	1	25	346-0150-02	LEATHER SHEET	1
6	335-6903-00	ARM-COVER(L)	1	26	716-0872-50	PAD SCREW(M1.7x5)	4
7	335-6904-00	ARM-COVER(R)	1	27	750-3304-20	SPRING(GEAR)	1
8	716-1468-70	SCREW(M2x2.5)	10	28	854-4380-01	EXTENSION LEAD	1
9	335-7484-00	HOOK	1	29	309-0772-02	FRONT PLATE	1
10	750-3431-02	SPRING(HOOK)	1	30	613-0719-00	ARM GEAR	1
11	341-1802-00	SHAFT	1	31	750-3432-00	SPRING(MOTO)	1
12	716-1715-52	DECO-SCREW(M2)	11	32	613-0733-00	HUS-GEAR	1
13	335-6499-00	CN-CVR	1	33	746-0768-70	SPECIAL WASHER	4
14	331-3117-01	LEVER-UP(R)	1	34	613-0717-00	INPUT GEAR	1
15	331-3118-01	LEVER-LO(R)	1	35	634-0024-00	MOTOR-ASSY	1
16	335-6505-00	ILLUMI PLATE	1	36	947-0513-04	T-LIM-GEAR-ASSY	1
17	331-3119-00	LEVER-LO(L)	1	37	750-3303-20	SPRING(ARM)	1
18	331-3120-00	LEVER-UP(L)	1	38	347-8262-00	FILM(FRONT)	1
19	716-1758-50	PAD SCREW(M2x5)	2	39	345-5937-00	CUSHION	1
20	341-1740-00	ROLLER(ARM)	1	40	347-7347-00	SPACER	1
				41	946-0079-01	GEAR-BOX ASSY	1

Main section



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	076-0312-02	PLUG(2P)	1	28	313-1923-00	HEAT SINK	1
2	013-7206-50	DETECTOR SWITCH	1	29	714-3006-8B	MACHINE SCREW(M3x6)	7
3	013-7106-00	DETECTOR SWITCH	1	30	074-1138-65	OUTLET SOCKET(15P)	1
4	331-3378-00	SW-HOLDER	1	31	076-0478-55	PLUG(5P)	1
5	880-2091E	TUNER	1	32	074-1228-79	OUTLET SOCKET(29P)	1
6	074-1138-79	OUTLET SOCKET(29P)	1	33	074-1138-60	OUTLET SOCKET(10P)	1
7	074-1214-50	OUTLET SOCKET(16P)	1	34	-----	YAMATO PWB	1
8	331-3954-00	IC-HOLDER	1	35	331-2744-00	STOPPER	1
9	076-0368-16	PLUG(16P)	1	36	347-7581-10	CUSHION	2
10	076-6003-18	PLUG(18P)	1	37	303-0472-07	UPPER-CVR	1
11	074-1194-00	OUTLET SOCKET(CeNET)	1	38	347-7579-10	INSULATOR	1
12	347-6215-00	SPACER-FILM	1	39	714-2603-8B	MACHINE SCREW(M2.6x3)	7
13	313-1924-00	HEAT SINK	1	40	331-3324-00	CD-SUB-BRKT(R)	1
14	714-3005-8B	MACHINE SCREW(M3x5)	4	41	347-8269-00	SPACER	2
15	305-0348-00	SIDE-CVR(R)	1	42	929-5016-80	CD-MECH-MODULE	1
16	013-6100-00	TACT SWITCH	1	43	716-1670-01	SCREW(M2x4)	2
17	-----	MAIN PWB	1	44	816-4026-50	FLAT WIRE	1
18	001-7062-90	DIODE	1	45	331-4367-00	MECH BRKT(F)	1
19	305-0347-00	SIDE-CVR(L)	1	46	347-6536-00	PROTECT SHEET	1
20	347-8250-00	DOUBLE FACE	1	47	347-7578-10	INSULATOR	1
21	092-2215-50	ANT-RECEPT	1	48	304-0483-00	LOWER-CVR	1
22	074-1198-68	OUTLET SOCKET(18P)	1	49	276-0379-00	SETPLATE(PE-3041B-A)	1
23	307-0723-01	REAR-CVR	1		276-0413-00	SETPLATE(PE-3041K-A)	1
24	074-0898-16	OUTLET SOCKET(16P)	1		276-0414-00	SETPLATE(PE-3041K-B)	1
25	-----	D/D PWB	1	50	716-0717-60	STEEL SCREW(M2.3x0.4P)	2
26	855-0613-53	USB CABLE	1	51	780-2005-50	SCREW(M2x5)	2
27	731-3006-8B	TAPTIGHT(M3x5)	9	52	345-8701-00	CUSHION	1

ELECTRICAL PARTS LIST

Main PWB (B1) section

Note)1. Several different parts of the same reference number are alternative parts.

One of those parts is used in the set.

2. Some parts depend on each model.

The model name is specified in the description.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT1	092-2215-50	ANT-RECEPT	C314	043-1804-90	0.1uF	C380	043-1735-90	100pF
BL1	880-2091E	TUNER	C315	043-1735-90	100pF	C382	043-1611-90	2200pF
C2	043-1719-90	22pF	C316	043-1735-90	100pF	C382	046-2222-58	2200pF
C3	042-1631-50	10V 100uF	C317	043-1735-90	100pF	C383	043-1611-90	2200pF
C4	043-1802-90	0.01uF	C318	043-1802-90	0.01uF	C383	046-2222-58	2200pF
C5	043-1821-90	0.022uF	C320	043-1804-90	0.1uF	C384	043-1819-90	2200pF
C7	043-1800-90	1000pF	C321	043-1735-90	100pF	C385	043-1819-90	2200pF
C8	187-4763-15	6.3V 47uF	C322	042-0654-52	6.3V 10uF	C386	043-1819-90	2200pF
C9	043-1608-90	0.1uF	C324	043-1804-90	0.1uF	C387	043-1819-90	2200pF
C9	046-1042-78	0.1uF	C325	043-0552-90	6.3V 47uF	C402	042-1563-71	16V 100uF
C10	043-1804-90	0.1uF	C327	043-1824-91	0.22uF	C409	042-1563-71	16V 100uF
C11	043-1739-90	150pF	C327	168-2245-79	0.22uF	C410	043-1804-90	0.1uF
C12	043-1735-90	100pF	C329	043-0540-00	6.3V 10uF	C411	043-0540-00	6.3V 10uF
C13	043-1735-90	100pF	C330	043-1841-90	0.047uF	C412	043-0540-00	6.3V 10uF
C14	043-1800-90	1000pF	C331	043-1608-90	0.1uF	C413	043-0540-00	6.3V 10uF
C15	043-0552-90	6.3V 47uF	C331	046-1042-78	0.1uF	C414	043-0540-00	6.3V 10uF
C101	042-1715-00	16V 3300uF	C332	163-2273-25	10V 220uF	C415	043-0540-00	6.3V 10uF
C102	172-1041-15	0.1uF	C333	043-1804-90	0.1uF	C416	043-0540-00	6.3V 10uF
C103	189-1083-12	6.3V 1000uF	C334	043-1711-90	10pF	C417	043-0540-00	6.3V 10uF
C104	042-0654-52	6.3V 10uF	C335	043-1824-91	0.22uF	C418	043-0540-00	6.3V 10uF
C105	042-0654-52	6.3V 10uF	C335	168-2245-79	0.22uF	C419	043-0540-00	6.3V 10uF
C106	042-0654-52	6.3V 10uF	C336	043-1821-90	0.022uF	C420	043-0540-00	6.3V 10uF
C107	042-0654-52	6.3V 10uF	C337	043-1606-90	1000pF	C421	043-0540-00	6.3V 10uF
C108	042-0654-52	6.3V 10uF	C337	046-1022-58	1000pF	C422	043-0540-00	6.3V 10uF
C109	042-0654-52	6.3V 10uF	C338	043-1606-90	1000pF	C423	043-0264-52	1000pF
C110	163-2253-65	50V 2.2uF	C338	046-1022-58	1000pF	C424	043-1731-90	68pF
C114	178-4742-78	0.47uF	C340	043-1751-90	470pF	C425	043-1731-90	68pF
C115	178-4742-78	0.47uF	C341	043-1821-90	0.022uF	C426	043-0264-52	1000pF
C116	178-4742-78	0.47uF	C342	043-1821-90	0.022uF	C427	043-0264-51	2200pF
C117	178-4742-78	0.47uF	C343	043-1711-90	10pF	C428	043-1735-90	100pF
C119	163-1053-65	50V 1uF	C344	043-0540-02	16V 1uF	C429	043-1735-90	100pF
C120	163-1063-35	16V 10uF	C345	043-1821-90	0.022uF	C430	043-0264-51	2200pF
C121	043-1802-90	0.01uF	C346	043-1821-90	0.022uF	C431	043-0264-51	2200pF
C124	043-1804-90	0.1uF	C347	043-1802-90	0.01uF	C432	043-1735-90	100pF
C125	043-1800-90	1000pF	C350	043-0540-00	6.3V 10uF	C433	043-1735-90	100pF
C126	043-1800-90	1000pF	C351	043-1751-90	470pF	C434	043-0264-51	2200pF
C127	043-1800-90	1000pF	C352	043-1821-90	0.022uF	C435	043-1731-90	68pF
C128	043-1800-90	1000pF	C355	043-1804-90	0.1uF	C436	043-1735-90	100pF
C129	043-1800-90	1000pF	C356	043-1606-90	1000pF	C437	043-1735-90	100pF
C130	043-1800-90	1000pF	C356	046-1022-58	1000pF	C438	043-1731-90	68pF
C131	043-1800-90	1000pF	C357	043-1741-90	180pF	C439	043-1735-90	100pF
C132	043-1800-90	1000pF	C357	166-1811-50	180pF	C440	043-1735-90	100pF
C133	043-1711-90	10pF	C358	043-0551-90	6.3V 4.7uF	C441	043-1804-90	0.1uF
C134	043-1711-90	10pF	C359	043-0551-90	6.3V 4.7uF	C442	043-0264-52	1000pF
C135	043-1711-90	10pF	C360	043-1800-90	1000pF	C443	043-0264-52	1000pF
C136	043-1711-90	10pF	C361	042-0654-52	6.3V 10uF	C444	043-0264-51	2200pF
C137	043-1800-90	1000pF	C362	043-0551-90	6.3V 4.7uF	C445	043-0264-51	2200pF
C138	043-1800-90	1000pF	C363	043-1821-90	0.022uF	C446	043-0264-51	2200pF
C139	043-1800-90	1000pF	C364	043-1831-90	0.033uF	C447	043-0264-51	2200pF
C140	043-1800-90	1000pF	C365	043-1804-90	0.1uF	C452	163-1063-35	16V 10uF
C301	178-4742-78	0.47uF	C366	043-1735-90	100pF	C600	042-1563-71	16V 100uF
C302	043-0540-00	6.3V 10uF	C367	043-1821-90	0.022uF	C601	043-1804-90	0.1uF
C303	163-1073-15	6.3V 100uF	C368	043-1608-90	0.1uF	C602	163-2263-35	16V 22uF
C304	043-1601-90	100pF	C368	046-1042-78	0.1uF	C603	043-1841-90	0.047uF
C304	045-1011-50	100pF	C369	043-0551-90	6.3V 4.7uF	C604	043-1735-90	100pF
C305	043-1601-90	100pF	C370	042-0654-52	6.3V 10uF	C605	042-1631-50	10V 100uF
C305	045-1011-50	100pF	C371	043-1608-90	0.1uF	C606	043-1606-90	1000pF
C306	043-0540-00	6.3V 10uF	C371	046-1042-78	0.1uF	C606	046-1022-58	1000pF
C307	043-0540-00	6.3V 10uF	C372	042-0654-52	6.3V 10uF	C607	043-1606-90	1000pF
C308	043-0540-00	6.3V 10uF	C373	043-1608-90	0.1uF	C607	046-1022-58	1000pF
C309	043-0540-00	6.3V 10uF	C373	046-1042-78	0.1uF	C608	187-4763-35	16V 47uF
C310	043-0540-00	6.3V 10uF	C374	043-0552-90	6.3V 47uF	C609	043-1602-90	18pF
C311	043-1606-90	1000pF	C376	043-1821-90	0.022uF	C609	045-1801-50	18pF
C311	046-1022-58	1000pF	C377	043-1608-90	0.1uF	C610	043-1603-90	22pF
C312	043-1606-90	1000pF	C377	046-1042-78	0.1uF	C610	045-2201-50	22pF
C312	046-1022-58	1000pF	C378	043-1601-90	100pF	C611	042-1631-50	10V 100uF
C313	043-1606-90	1000pF	C378	045-1011-50	100pF	C612	043-1804-90	0.1uF
C313	046-1022-58	1000pF	C379	043-1735-90	100pF	C613	187-4763-35	16V 47uF

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C614	043-1821-90	0.022uF	D606	001-0644-90	MA113	L602	010-6025-00	10uH
C615	163-1073-35	16V 100uF	D607	001-1310-00	KDS160	L603	010-3406-54	2.2uH
C616	172-4731-15	0.047uF	D608	001-2601-90	MA728	L801	010-3112-91	1.5k ohm/100MHz
C617	042-1576-00	5.5V 0.1F	D609	001-1310-00	KDS160	L802	010-3112-91	1.5k ohm/100MHz
C618	042-1577-00	6.3V 100uF	D610	001-0466-91	S5688G	L803	010-3112-91	1.5k ohm/100MHz
C619	043-0510-51	25V 10uF	D611	001-0529-26	MA8047M	L805	010-3112-91	1.5k ohm/100MHz
C620	043-0540-00	6.3V 10uF	D612	001-1310-00	KDS160	L807	010-3112-91	1.5k ohm/100MHz
C621	043-1607-90	0.01uF	D613	001-1310-00	KDS160	L808	010-3112-91	1.5k ohm/100MHz
C621	046-1032-78	0.01uF	D614	001-0466-91	S5688G	L809	010-3112-91	1.5k ohm/100MHz
C624	043-1824-91	0.22uF	D615	001-4301-44	HZU8.2B2	L810	010-3112-91	1.5k ohm/100MHz
C624	168-2245-79	0.22uF	D616	001-0504-33	HZS6B2L	L811	010-3112-91	1.5k ohm/100MHz
C625	043-1608-91	0.1uF	D617	001-0644-90	MA113	L812	010-3112-91	1.5k ohm/100MHz
C625	046-1042-78	0.1uF	D618	001-0644-90	MA113	L813	010-3112-91	1.5k ohm/100MHz
C626	187-1063-35	16V 10uF	D801	001-0584-16	MA8039M	L814	010-3112-91	1.5k ohm/100MHz
C628	043-1804-90	0.1uF	FIL401	060-3115-51	CKD310JB1C224ST	L815	010-3105-67	1k ohm/100MHz
C629	163-3363-25	10V 33uF	FIL404	060-3115-51	CKD310JB1C224ST	L816	010-3105-67	1k ohm/100MHz
C630	043-1804-90	0.1uF	IC1	051-1905-91	AN77L05M	L817	010-3105-67	1k ohm/100MHz
C631	043-1802-90	0.01uF	IC101	051-2056-00	TB2913HQ	L818	010-3105-67	1k ohm/100MHz
C632	043-1804-90	0.1uF	IC301	-----	SAF7730HN219A	L819	010-3105-67	1k ohm/100MHz
C633	043-1606-90	1000pF	IC402	051-3026-90	NJM4580V	L820	010-3105-67	1k ohm/100MHz
C633	046-1022-58	1000pF	IC403	051-3026-90	NJM4580V	L821	010-3105-67	1k ohm/100MHz
C634	163-1063-35	16V 10uF	IC404	051-3026-90	NJM4580V	L822	010-3105-67	1k ohm/100MHz
C635	043-1735-90	100pF	IC602	051-6078-90	BA6285AFP	L823	010-3105-67	1k ohm/100MHz
C636	163-1063-35	16V 10uF	IC603	052-3977-10	M30873MHB-709GP	L824	010-3105-67	1k ohm/100MHz
C637	043-0540-00	6.3V 10uF	IC604	051-3335-90	AN77L04M	L825	010-3105-67	1k ohm/100MHz
C638	043-1804-90	0.1uF	IC605	051-9402-68	BR93L58F-WE2	L826	010-3105-67	1k ohm/100MHz
C639	043-1802-90	0.01uF	IC606	051-5437-58	R3111N211A	L827	010-3105-67	1k ohm/100MHz
C640	043-1601-90	100pF	IC606	051-5437-08	S-80821CNMC-B8GT2G	Q1	125-7005-90	PHK04P02T
C640	045-1011-50	100pF	IC606	051-5437-08	S-80821CNMC-B8GT2G	Q2	191-1197-50	2SB1197K
C641	043-1735-90	100pF	IC607	051-6600-90	LA2335M	Q2	190-1365-50	2SA1365
C801	043-1607-90	0.01uF	IC608	051-3406-90	NJM2078M	Q3	125-2027-95	DTC143EUA-T106
C801	046-1032-78	0.01uF	IC801	051-9109-70	IS62LV256	Q3	125-2041-96	RT1N436M
C802	043-0540-00	6.3V 10uF	IC802	051-6705-00	AK7720A	Q4	125-2027-95	DTC143EUA-T106
C803	043-1804-90	0.1uF	J101	074-1214-50	16P	Q4	125-2041-96	RT1N436M
C804	043-0540-00	6.3V 10uF	J102	076-6003-18	18P	Q5	190-1576-00	2SA1576A-T106
C805	043-0540-00	6.3V 10uF	J602	074-1198-68	18P	Q5	125-3014-90	ISA1602A
C806	043-1804-90	0.1uF	J603	076-0312-02	2P	Q101	125-4012-90	KTD1304
C807	043-0540-00	6.3V 10uF	J604	074-1194-00	CeNET 13P	Q102	125-4012-90	KTD1304
C808	043-1804-90	0.1uF	J605	074-1138-79	20P	Q103	125-4012-90	KTD1304
C809	043-1804-90	0.1uF	J606	076-0368-16	16P	Q104	125-4012-90	KTD1304
C810	043-1804-90	0.1uF	L1	010-2003-04	30uH(Variable)	Q105	125-4012-90	KTD1304
C811	043-1850-90	6800pF	L2	010-2279-50	4.7uH	Q106	125-4012-90	KTD1304
C812	043-1804-90	0.1uF	L3	010-2279-50	4.7uH	Q108	125-2027-92	DTC124EUA-T106
C813	043-1804-90	0.1uF	L101	010-8038-01	CHOKO COIL 130uH	Q108	125-2041-93	RT1N241M
C814	043-1804-90	0.1uF	L102	010-3105-67	1k ohm/100MHz	Q109	125-0021-95	DTA143ZUA-T106
C815	043-0540-00	6.3V 10uF	L103	010-3105-67	1k ohm/100MHz	Q109	125-0034-96	RT1P436M
C816	043-0540-00	6.3V 10uF	L104	010-3105-67	1k ohm/100MHz	Q110	125-2027-95	DTC143EUA-T106
C817	043-1800-90	1000pF	L105	010-3105-67	1k ohm/100MHz	Q110	125-2041-96	RT1N436M
C818	043-1802-90	0.01uF	L106	010-3105-67	1k ohm/100MHz	Q112	192-4081-00	2SC4081-T106
C888	043-1802-90	0.01uF	L107	010-3105-67	1k ohm/100MHz	Q112	192-4155-49	2SC4155A
CCT401	010-3042-54	600 ohm x4/100MHz	L303	010-3112-90	1k ohm/100MHz	Q401	125-4012-90	KTD1304
CCT402	010-3042-54	600 ohm x4/100MHz	L305	010-3112-90	1k ohm/100MHz	Q402	125-4012-90	KTD1304
CCT403	010-3042-54	600 ohm x4/100MHz	L306	010-3112-90	1k ohm/100MHz	Q403	125-4012-90	KTD1304
CCT404	010-3042-54	600 ohm x4/100MHz	L309	010-3112-91	1.5k ohm/100MHz	Q404	125-4012-90	KTD1304
CCT405	010-3042-54	600 ohm x4/100MHz	L311	010-3105-67	1k ohm/100MHz	Q405	125-4012-90	KTD1304
CCT406	010-3042-54	600 ohm x4/100MHz	L312	010-3105-67	1k ohm/100MHz	Q406	125-4012-90	KTD1304
D1	001-1310-00	KDS160	L313	010-3112-91	1.5k ohm/100MHz	Q407	125-4012-90	KTD1304
D2	001-2601-90	MA728	L314	010-3105-67	1k ohm/100MHz	Q408	125-4012-90	KTD1304
D3	001-4301-28	HZU5.1B1	L315	010-3105-67	1k ohm/100MHz	Q409	125-4012-90	KTD1304
D101	001-0592-61	1N5404	L316	010-3112-91	1.5k ohm/100MHz	Q410	125-4012-90	KTD1304
D102	001-0466-91	S5688G	L317	010-3112-91	1.5k ohm/100MHz	Q411	125-4012-90	KTD1304
D103	001-1310-00	KDS160	L318	010-3112-91	1.5k ohm/100MHz	Q412	125-4012-90	KTD1304
D104	001-1310-00	KDS160	L319	010-3112-91	1.5k ohm/100MHz	Q600	125-4015-90	KTC2026
D105	001-4301-43	HZU8.2B1	L320	010-3112-90	1k ohm/100MHz	Q601	198-0302-50	2SK302
D130	001-1310-00	KDS160	L321	010-3112-91	1.5k ohm/100MHz	Q602	190-1576-00	2SA1576A-T106
D600	001-0401-47	HZS9C1-TJ	L323	010-3112-90	1k ohm/100MHz	Q602	125-3014-90	ISA1602A
D601	001-0504-47	HZS9B3L	L324	010-3112-90	1k ohm/100MHz	Q603	125-2027-92	DTC124EUA-T106
D602	001-0504-45	HZS9B1L	L325	010-3112-90	1k ohm/100MHz	Q603	125-2041-93	RT1N241M
D603	001-0347-36	MA4062H	L377	010-3112-91	1.5k ohm/100MHz	Q605	125-9015-92	RN4902
D604	001-7062-90	RBR1111C	L601	010-3112-90	1k ohm/100MHz	Q606	125-2027-92	DTC124EUA-T106
D605	001-0644-90	MA113				Q606	125-2041-93	RT1N241M

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
Q607	191-1197-50	2SB1197K	R33	119-3331-15	1/10W 33k ohm	R303	119-0000-05	1/10W 0 ohm JW
Q607	190-1365-50	2SA1365	R34	119-1831-15	1/10W 18k ohm	R304	119-0000-05	1/10W 0 ohm JW
Q608	125-4014-90	KTC2020D	R35	119-0000-05	1/10W 0 ohm JW	R337	033-1041-15	1/16W 100k ohm
Q609	125-2027-92	DTC124EUA-T106	R36	119-1031-15	1/10W 10k ohm	R341	033-1041-15	1/16W 100k ohm
Q609	125-2041-93	RT1N241M	R37	119-1031-15	1/10W 10k ohm	R355	119-1021-15	1/10W 1k ohm
Q611	125-9015-92	RN4902	R39	119-2201-15	1/10W 22 ohm	R361	119-1021-15	1/10W 1k ohm
Q612	125-4014-90	KTC2020D	R40	119-0000-05	1/10W 0 ohm JW	R401	033-1021-15	1/16W 1k ohm
Q615	125-2041-92	RT1N141M	R41	119-1001-15	1/10W 10 ohm	R402	033-1021-15	1/16W 1k ohm
Q616	190-1576-00	2SA1576A-T106	R42	119-0000-05	1/10W 0 ohm JW	R403	033-1021-15	1/16W 1k ohm
Q616	125-3014-90	ISA1602A	R43	119-0000-05	1/10W 0 ohm JW	R404	033-1021-15	1/16W 1k ohm
Q617	101-0941-00	2SB941	R44	119-0000-05	1/10W 0 ohm JW	R405	033-1021-15	1/16W 1k ohm
Q618	125-0025-93	RN2303-TE85L	R45	119-4721-15	1/10W 4.7k ohm	R406	033-1021-15	1/16W 1k ohm
Q618	125-0034-93	RT1P241M	R46	119-4721-15	1/10W 4.7k ohm	R407	119-8211-15	1/10W 820 ohm
Q619	190-1576-00	2SA1576A-T106	R49	119-0000-05	1/10W 0 ohm JW	R408	119-4711-15	1/10W 470 ohm
Q619	125-3014-90	ISA1602A	R50	119-0000-05	1/10W 0 ohm JW	R412	032-0140-55	1/10W 4.7k ohm (F)
Q620	190-1576-00	2SA1576A-T106	R51	119-0000-05	1/10W 0 ohm JW	R413	032-0140-55	1/10W 4.7k ohm (F)
Q620	125-3014-90	ISA1602A	R52	119-0000-05	1/10W 0 ohm JW	R414	032-0140-22	1/10W 68k ohm (F)
Q621	192-4081-00	2SC4081-T106	R53	119-1001-15	1/10W 10 ohm	R415	032-0140-22	1/10W 68k ohm (F)
Q621	192-4155-49	2SC4155A	R54	033-1001-15	1/16W 10 ohm	R416	032-0140-55	1/10W 4.7k ohm (F)
Q622	192-4081-00	2SC4081-T106	R56	033-1021-15	1/16W 1k ohm	R417	032-0140-55	1/10W 4.7k ohm (F)
Q622	192-4155-49	2SC4155A	R59	033-1011-15	1/16W 100 ohm	R418	032-0140-07	1/10W 11k ohm (F)
Q623	125-0025-93	RN2303-TE85L	R60	119-1031-15	1/10W 10k ohm	R419	032-0140-07	1/10W 11k ohm (F)
Q623	125-0034-93	RT1P241M	R64	119-0000-05	1/10W 0 ohm JW	R420	032-0140-22	1/10W 68k ohm (F)
Q624	125-2027-92	DTC124EUA-T106	R67	119-0000-05	1/10W 0 ohm JW	R421	032-0140-22	1/10W 68k ohm (F)
Q624	125-2041-93	RT1N241M	R68	033-1011-15	1/16W 100 ohm	R422	032-0140-07	1/10W 11k ohm (F)
Q625	125-2027-92	DTC124EUA-T106	R69	119-1031-15	1/10W 10k ohm	R423	032-0140-07	1/10W 11k ohm (F)
Q625	125-2041-93	RT1N241M	R70	033-1011-15	1/16W 100 ohm	R424	032-0140-07	1/10W 11k ohm (F)
Q626	131-1260-00	2SB1260	R71	033-1031-15	1/16W 10k ohm	R425	032-0140-07	1/10W 11k ohm (F)
Q627	190-1576-00	2SA1576A-T106	R72	033-1011-15	1/16W 100 ohm	R426	032-0140-22	1/10W 68k ohm (F)
Q627	125-3014-90	ISA1602A	R73	119-0000-05	1/10W 0 ohm JW	R427	032-0140-22	1/10W 68k ohm (F)
Q628	125-2027-92	DTC124EUA-T106	R74	033-1031-15	1/16W 10k ohm	R428	032-0140-07	1/10W 11k ohm (F)
Q628	125-2041-93	RT1N241M	R75	033-1031-15	1/16W 10k ohm	R429	032-0140-07	1/10W 11k ohm (F)
Q629	131-1260-00	2SB1260	R76	119-0000-05	1/10W 0 ohm JW	R430	119-4321-15	1/10W 4.3k ohm
Q630	125-4015-90	KTC2026	R77	119-0000-05	1/10W 0 ohm JW	R431	032-0140-79	1/10W 2.7k ohm (F)
Q631	125-4015-90	KTC2026	R78	119-1031-15	1/10W 10k ohm	R432	032-0140-79	1/10W 2.7k ohm (F)
Q632	190-1576-00	2SA1576A-T106	R79	033-4721-15	1/16W 4.7k ohm	R433	119-4321-15	1/10W 4.3k ohm
Q632	125-3014-90	ISA1602A	R80	119-1011-15	1/10W 100 ohm	R434	119-4321-15	1/10W 4.3k ohm
Q633	125-2027-95	DTC143EUA-T106	R81	119-0000-05	1/10W 0 ohm JW	R435	032-0140-79	1/10W 2.7k ohm (F)
Q633	125-2041-96	RT1N436M	R82	119-1011-15	1/10W 100 ohm	R436	032-0140-79	1/10W 2.7k ohm (F)
Q635	125-0025-93	RN2303-TE85L	R86	033-0000-05	0.5A 0 ohm	R437	032-0140-79	1/10W 2.7k ohm (F)
Q635	125-0034-93	RT1P241M	R87	033-0000-05	0.5A 0 ohm	R438	032-0140-79	1/10W 2.7k ohm (F)
Q636	192-4081-00	2SC4081-T106	R90	119-0000-05	1/10W 0 ohm JW	R439	119-4321-15	1/10W 4.3k ohm
Q636	192-4155-49	2SC4155A	R101	119-1031-15	1/10W 10k ohm	R440	032-0140-22	1/10W 68k ohm (F)
Q638	125-9015-92	RN4902	R102	033-3331-15	1/16W 33k ohm	R441	032-0140-79	1/10W 2.7k ohm (F)
Q801	125-2027-95	DTC143EUA-T106	R103	033-1021-15	1/16W 1k ohm	R442	032-0140-22	1/10W 68k ohm (F)
Q801	125-2041-96	RT1N436M	R104	033-5621-15	1/16W 5.6k ohm	R443	032-0140-79	1/10W 2.7k ohm (F)
Q907	125-2027-92	DTC124EUA-T106	R108	119-4721-15	1/10W 4.7k ohm	R444	032-0140-22	1/10W 68k ohm (F)
Q907	125-2041-93	RT1N241M	R110	119-1021-15	1/10W 1k ohm	R445	032-0140-22	1/10W 68k ohm (F)
Q908	125-0021-95	DTA143ZUA-T106	R111	119-1021-15	1/10W 1k ohm	R446	032-0140-22	1/10W 68k ohm (F)
Q908	125-0034-96	RT1P436M	R112	119-1021-15	1/10W 1k ohm	R447	032-0140-22	1/10W 68k ohm (F)
R2	119-1031-15	1/10W 10k ohm	R113	119-3311-15	1/10W 330 ohm	R450	033-1021-15	1/16W 1k ohm
R3	119-1041-15	1/10W 100k ohm	R114	119-3311-15	1/10W 330 ohm	R452	033-1021-15	1/16W 1k ohm
R6	119-1031-15	1/10W 10k ohm	R115	119-3311-15	1/10W 330 ohm	R453	033-1021-15	1/16W 1k ohm
R7	119-1031-15	1/10W 10k ohm	R116	119-3311-15	1/10W 330 ohm	R454	033-1021-15	1/16W 1k ohm
R8	033-1031-15	1/16W 10k ohm	R117	119-3311-15	1/10W 330 ohm	R455	033-1021-15	1/16W 1k ohm
R10	033-1021-15	1/16W 1k ohm	R118	119-3311-15	1/10W 330 ohm	R456	033-3311-15	1/16W 330 ohm
R11	033-1031-15	1/16W 10k ohm	R119	119-2231-15	1/10W 22k ohm	R457	033-1021-15	1/16W 1k ohm
R16	033-1021-15	1/16W 1k ohm	R120	119-2231-15	1/10W 22k ohm	R458	033-1021-15	1/16W 1k ohm
R17	119-0000-05	1/10W 0 ohm JW	R121	119-2231-15	1/10W 22k ohm	R459	033-3311-15	1/16W 330 ohm
R18	119-0000-05	1/10W 0 ohm JW	R122	119-2231-15	1/10W 22k ohm	R460	033-3311-15	1/16W 330 ohm
R22	033-1831-15	1/16W 18k ohm	R123	119-2231-15	1/10W 22k ohm	R461	033-3311-15	1/16W 330 ohm
R23	119-1031-15	1/10W 10k ohm	R124	119-2231-15	1/10W 22k ohm	R462	033-1021-15	1/16W 1k ohm
R24	033-1831-15	1/16W 18k ohm	R133	116-1521-15	1/4WS 1.5k ohm	R463	033-3311-15	1/16W 330 ohm
R25	119-0000-05	1/10W 0 ohm JW	R134	119-1021-15	1/10W 1k ohm	R464	033-3311-15	1/16W 330 ohm
R26	119-0000-05	1/10W 0 ohm JW	R135	119-1021-15	1/10W 1k ohm	R465	033-3311-15	1/16W 330 ohm
R27	119-1831-15	1/10W 18k ohm	R136	119-1021-15	1/10W 1k ohm	R466	033-1021-15	1/16W 1k ohm
R28	119-3331-15	1/10W 33k ohm	R137	119-1021-15	1/10W 1k ohm	R467	033-3311-15	1/16W 330 ohm
R29	119-1831-15	1/10W 18k ohm	R145	032-0140-50	1/10W 10k ohm (F)	R468	033-3311-15	1/16W 330 ohm
R30	119-3331-15	1/10W 33k ohm	R151	033-2231-15	1/16W 22k ohm	R469	033-1021-15	1/16W 1k ohm
R31	119-3331-15	1/10W 33k ohm	R301	119-0000-05	1/10W 0 ohm JW	R470	033-3311-15	1/16W 330 ohm
R32	119-1831-15	1/10W 18k ohm	R302	119-0000-05	1/10W 0 ohm JW	R471	033-1021-15	1/16W 1k ohm

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R472	033-1021-15	1/16W 1k ohm	R637	033-1031-15	1/16W 10k ohm	R693	119-0000-05	1/10W 0 ohm JW
R473	033-3311-15	1/16W 330 ohm	R638	033-1031-15	1/16W 10k ohm	R697	033-4731-15	1/16W 47k ohm
R474	033-1021-15	1/16W 1k ohm	R639	033-5621-15	1/16W 5.6k ohm	R650	033-3321-15	1/16W 3.3k ohm
R475	033-3311-15	1/16W 330 ohm	R640	033-4721-15	1/16W 4.7k ohm	R651	033-1531-15	1/16W 15k ohm
R600	119-1011-15	1/10W 100 ohm	R641	033-1031-15	1/16W 10k ohm	R652	119-3321-15	1/10W 3.3k ohm
R601	033-1031-15	1/16W 10k ohm	R642	033-1041-15	1/16W 100k ohm	R653	119-0000-05	1/10W 0 ohm JW
R602	033-2231-15	1/16W 22k ohm	R643	116-1801-15	1/4WS 18 ohm	R654	032-0140-54	1/10W 22k ohm (F)
R603	119-3921-15	1/10W 3.9k ohm	R644	119-1041-15	1/10W 100k ohm	R655	033-1051-15	1/16W 1M ohm
R604	119-1031-15	1/10W 10k ohm	R645	033-4731-15	1/16W 47k ohm	R656	119-0000-05	1/10W 0 ohm JW
R605	116-4711-15	1/4WS 470 ohm	R646	119-1031-15	1/10W 10k ohm	R657	116-1591-15	1/4WS 1.5 ohm
R606	116-4711-15	1/4WS 470 ohm	R647	116-1591-15	1/4WS 1.5 ohm	R698	033-1041-15	1/16W 100k ohm
R607	033-1031-15	1/16W 10k ohm	R648	032-0140-89	1/10W 47k ohm (F)	R801	119-0000-05	1/10W 0 ohm JW
R608	116-1811-15	1/4WS 180 ohm	R649	116-1591-15	1/4WS 1.5 ohm	R802	119-0000-05	1/10W 0 ohm JW
R609	033-2221-15	1/16W 2.2k ohm	R658	033-2231-15	1/16W 22k ohm	R803	119-0000-05	1/10W 0 ohm JW
R610	033-1031-15	1/16W 10k ohm	R659	033-1031-15	1/16W 10k ohm	R804	119-0000-05	1/10W 0 ohm JW
R611	033-1031-15	1/16W 10k ohm	R660	116-1591-15	1/4WS 1.5 ohm	R805	033-0000-05	0.5A 0 ohm
R612	033-1031-15	1/16W 10k ohm	R661	116-6801-15	1/4WS 68 ohm	R806	033-0000-05	0.5A 0 ohm
R613	119-1031-15	1/10W 10k ohm (PE-3041B-A)	R662	033-1041-15	1/16W 100k ohm	R807	033-0000-05	0.5A 0 ohm
R614	119-1031-15	1/10W 10k ohm	R663	033-1031-15	1/16W 10k ohm	R808	033-0000-05	0.5A 0 ohm
R616	119-0000-05	1/10W 0 ohm JW	R664	119-4731-15	1/10W 47k ohm	R809	033-5611-15	1/16W 560 ohm
R617	119-2231-15	1/10W 22k ohm	R665	119-4731-15	1/10W 47k ohm	R810	033-4711-15	1/16W 470 ohm
R620	119-1031-15	1/10W 10k ohm (PE-3041K-A/B)	R666	116-1221-15	1/4WS 1.2k ohm	R811	033-4711-15	1/16W 470 ohm
R622	119-1031-15	1/10W 10k ohm	R667	032-0140-66	1/10W 220 ohm (F)	R813	033-5611-15	1/16W 560 ohm
R623	033-1811-15	1/16W 180 ohm	R668	032-0140-67	1/10W 3.3k ohm (F)	R815	119-3311-15	1/10W 330 ohm
R624	033-1031-15	1/16W 10k ohm	R670	033-4721-15	1/16W 4.7k ohm	R816	119-3311-15	1/10W 330 ohm
R625	116-3911-15	1/4WS 390 ohm	R671	032-0140-56	1/10W 12k ohm (F)	R817	119-0000-05	1/10W 0 ohm JW
R626	119-0000-05	1/10W 0 ohm JW	R672	119-4721-15	1/10W 4.7k ohm	R818	119-5621-15	1/10W 5.6k ohm
R628	119-1011-15	1/10W 100 ohm	R673	033-1031-15	1/16W 10k ohm	S601	013-6100-00	TACT SWITCH
R629	033-1011-15	1/16W 100 ohm	R674	033-1031-15	1/16W 10k ohm	S602	013-7106-00	DETECTOR SWITCH
R630	119-1011-15	1/10W 100 ohm	R675	116-1221-15	1/4WS 1.2k ohm	S603	013-7206-50	DETECTOR SWITCH
R631	033-1011-15	1/16W 100 ohm	R676	119-0000-05	1/10W 0 ohm JW	SUP1	060-8057-90	CSA20-141N-T
R633	033-1021-15	1/16W 1k ohm	R677	119-4721-15	1/10W 4.7k ohm	X301	061-3537-90	41.6MHz
R634	033-1041-15	1/16W 100k ohm	R685	116-3311-15	1/4WS 330 ohm	X601	060-1533-90	10MHz
R635	119-4721-15	1/10W 4.7k ohm	R687	119-0000-05	1/10W 0 ohm JW	X602	061-1056-00	32.768kHz
R636	033-1031-15	1/16W 10k ohm	R688	033-1031-15	1/16W 10k ohm	PWB	039-3049-01	PWB(WITHOUT COMPONENT)
			R690	119-4731-15	1/10W 47k ohm			
			R691	119-1031-15	1/10W 10k ohm			

Switch PWB (B2) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C701	043-1741-90	180pF	D719	001-7088-90	HSMF-A355	R4	033-3941-15	1/10W 390k ohm
C702	042-0397-59	50V 1uF TAN	D720	001-7088-90	HSMF-A355	R700	033-1031-15	1/10W 10k ohm
C703	042-0397-59	50V 1uF TAN	IC701	052-7302-10	M30876MJB-713GP	R701	033-1031-15	1/10W 10k ohm
C704	042-0397-59	50V 1uF TAN	IC702	051-7507-08	SN74LV125APWR	R702	033-1031-15	1/10W 10k ohm
C705	178-2242-78	50V 0.22uF	IR701	060-4017-90	RS-671	R703	033-1031-15	1/10W 10k ohm
C706	178-2242-78	50V 0.22uF	J701	074-2226-71	16P	R704	033-1031-15	1/10W 10k ohm
C707	042-0423-97	16V 10uF TAN	L701	010-3407-59	5.6uH	R705	119-1031-15	1/10W 10k ohm
C708	178-2242-78	50V 0.22uF	L702	010-3406-54	2.2uH	R706	119-1041-15	1/10W 100k ohm
C709	178-2242-78	50V 0.22uF	L703	010-3112-91	GZ1608D15	R707	119-1031-15	1/10W 10k ohm
C710	178-2242-78	50V 0.22uF	L704	010-3112-91	GZ1608D15	R708	119-0000-05	1/10W 0 ohm JW
C711	043-1608-90	0.1uF	L705	010-3112-91	GZ1608D15	R713	033-1031-15	1/10W 10k ohm
C711	046-1042-78	0.1uF	L706	010-3112-91	GZ1608D15	R718	033-6811-15	1/10W 680 ohm
C712	043-1608-90	0.1uF	L708	010-3112-91	GZ1608D15	R719	033-8211-15	1/10W 820 ohm
C712	046-1042-78	0.1uF	L709	010-3112-91	GZ1608D15	R720	033-4711-15	1/10W 470 ohm
C713	043-1608-90	0.1uF	L710	010-3112-91	GZ1608D15	R721	033-6811-15	1/10W 680 ohm
C713	046-1042-78	0.1uF	P701	076-0647-00	16P	R722	033-5611-15	1/10W 560 ohm
C714	043-1608-90	0.1uF	Q709	125-2017-96	RN1426	R723	033-1521-15	1/10W 1.5k ohm
C714	046-1042-78	0.1uF	Q710	125-2017-96	RN1426	R724	033-1021-15	1/10W 1k ohm
C715	043-1608-90	0.1uF	Q711	191-1197-50	2SB1197K	R725	033-8211-15	1/10W 820 ohm
C715	046-1042-78	0.1uF	Q711	190-1365-50	2SA1635	R726	033-1021-15	1/10W 1k ohm
C716	178-4742-78	0.47uF	Q712	191-1197-50	2SB1197K	R727	033-1021-15	1/10W 1k ohm
C717	178-4742-78	0.47uF	Q712	190-1365-50	2SA1635	R735	033-1521-15	1/10W 1.5k ohm
C718	043-1741-90	180pF	Q715	125-2017-96	RN1426	R736	033-1521-15	1/10W 1.5k ohm
C719	042-0423-97	16V 10uF TAN	Q716	125-2017-96	RN1426	R738	033-6811-15	1/10W 680 ohm
D701	001-2601-90	MA728	Q717	191-1197-50	2SB1197K	R739	033-8211-15	1/10W 820 ohm
D702	001-2601-90	MA728	Q717	190-1365-50	2SA1635	R740	033-8211-15	1/10W 820 ohm
D703	001-2601-90	MA728	Q718	125-2017-96	RN1426	R742	033-1031-15	1/10W 10k ohm
D704	001-2601-90	MA728	Q719	125-2017-96	RN1426	R743	033-2221-15	1/10W 2.2k ohm
D714	001-2601-90	MA728	R1	033-2241-15	1/10W 220k ohm	R744	033-1031-15	1/10W 10k ohm
D717	001-7088-90	HSMF-A355	R2	033-1031-15	1/10W 10k ohm	R745	033-2221-15	1/10W 2.2k ohm
D718	001-7088-90	HSMF-A355	R3	033-8241-15	1/10W 820k ohm	R746	033-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R747	033-1021-15	1/10W 1k ohm	R762	033-1011-15	1/10W 100 ohm	S709	013-7419-00	SWITCH
R748	033-2221-15	1/10W 2.2k ohm	R763	033-1021-15	1/10W 1k ohm	S710	013-7419-00	SWITCH
R751	033-1521-15	1/10W 1.5k ohm	S701	013-6524-50	TACT SWITCH	S711	013-7419-00	SWITCH
R754	033-8211-15	1/10W 820 ohm	S702	013-6524-50	TACT SWITCH	S715	013-6524-50	TACT SWITCH
R755	033-6811-15	1/10W 680 ohm	S703	013-6524-50	TACT SWITCH	S716	013-6524-50	TACT SWITCH
R756	033-8211-15	1/10W 820 ohm	S704	013-6524-50	TACT SWITCH	VR1	012-6004-59	47k ohm
R757	033-6811-15	1/10W 680 ohm	S705	013-6524-50	TACT SWITCH	X701	060-1533-90	10MHz
R760	033-3921-15	1/10W 3.9k ohm	S706	013-6524-50	TACT SWITCH	PWB	039-3230-00	PWB(WITHOUT COMPONENT)
R761	033-1041-15	1/10W 100k ohm	S707	013-6524-50	TACT SWITCH			

D/D PWB (B3) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C502	042-1563-71	16V 100uF	D507	001-0529-57	MA8120H	R502	119-1031-15	1/10W 10k ohm
C503	043-1804-90	0.1uF	D508	001-2635-90	D1FJ10	R506	119-1031-15	1/10W 10k ohm
C505	042-1563-71	16V 100uF	FIL501	060-3116-55	CKD510JB1H102ST	R507	119-4701-15	1/10W 47 ohm
C506	043-1804-90	0.1uF	FIL502	060-3116-55	CKD510JB1H102ST	R508	032-0140-90	1/10W 560 ohm F
C507	043-0510-51	25V 10uF	FIL503	060-3115-52	CKD510JB1H102ST	R509	032-0164-50	1/10W 0.1 ohm F
C508	043-1800-90	1000pF	IC501	051-3924-90	MD1424R	R510	032-0164-50	1/10W 0.1 ohm F
C510	043-1800-90	1000pF	J501	074-0898-16	16P	R511	119-1001-15	1/10W 10 ohm
C511	043-1841-90	0.047uF	L501	010-3600-90	2k ohm/100MHz	R512	119-5631-15	1/10W 56k ohm
C512	043-1802-90	0.01uF	L504	010-3041-90	10uH	R513	119-1811-15	1/10W 180 ohm
C513	163-1073-35	16V 100uF	L505	010-3108-53	330 ohm/100MHz	R514	119-1811-15	1/10W 180 ohm
C514	042-1697-00	10V 680uF	L506	010-2275-50	33uH	R516	032-0140-53	1/10W 2.2k ohm F
C517	043-1800-90	1000pF	L507	010-2275-50	33uH	R521	119-1051-15	1/10W 1M ohm
C521	043-1804-90	0.1uF	Q501	125-2027-92	DTC124EUA-T106	R522	119-1031-15	1/10W 10k ohm
C523	163-2263-35	16V 22uF	Q501	125-2041-93	RT1N241M	R523	032-0140-15	1/10W 6.8k ohm F
C524	163-3363-45	16V 33uF	Q502	190-1576-00	2SA1576A-T106	R527	119-1041-15	1/10W 100k ohm
C525	163-2263-35	16V 22uF	Q502	125-3014-90	ISA1602A	R529	119-3321-15	1/10W 3.3k ohm
C526	163-3363-45	16V 33uF	Q503	192-2873-00	2SC2873	R530	119-3321-15	1/10W 3.3k ohm
D502	001-0608-90	D1FS4	Q504	125-2027-92	DTC124EUA-T106	T501	007-1180-00	SRW13EPC
D504	001-0507-90	DAP202K	Q504	125-2041-93	RT1N241M	PWB	039-3046-00	PWB(WITHOUT COMPONENT)
D505	001-0529-57	MA8120H	Q506	125-3010-90	KTA1666			
D506	001-2635-90	D1FJ10	R501	119-1031-15	1/10W 10k ohm			

MECH PWB (B4) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C2	043-1804-90	0.1uF	C41	043-1804-90	0.1uF	C90	043-1804-90	0.1uF
C3	042-0636-50	6.3V 100uF	C42	043-1804-90	0.1uF	C91	163-1063-35	16V 10uF
C4	043-1804-90	0.1uF	C43	043-1804-90	0.1uF	C92	163-1063-35	16V 10uF
C5	163-1073-35	16V 100uF	C44	043-1607-90	0.01uF	C93	043-1600-90	10pF
C6	163-1073-35	16V 100uF	C45	043-1605-90	68pF	C94	043-1600-90	10pF
C7	168-1052-78	1uF	C46	043-1804-90	0.1uF	C97	043-1804-90	0.1uF
C8	163-1063-35	16V 10uF	C47	043-1610-90	0.015uF	C98	043-1804-90	0.1uF
C9	168-1052-78	1uF	C48	043-1804-90	0.1uF	C99	043-1804-90	0.1uF
C10	042-0423-21	10V 22uF TAN	C49	043-1607-90	0.01uF	C100	043-1600-90	10pF
C11	042-0560-85	6.3V 100uF	C50	043-1804-90	0.1uF	C101	043-1600-90	10pF
C12	043-0552-90	6.3V 47uF	C51	043-1804-90	0.1uF	C102	043-1804-90	0.1uF
C13	043-1804-90	0.1uF	C52	043-1609-90	1500pF	C103	043-1607-90	0.01uF
C14	043-1804-90	0.1uF	C53	043-1612-90	3300pF	C104	043-1706-90	5pF
C15	168-1052-78	1uF	C54	043-1607-90	0.01uF	C105	043-1706-90	5pF
C16	168-1052-78	1uF	C56	043-1804-90	0.1uF	CCT1	050-0140-57	1/32W 10k ohm x4
C17	042-0423-21	10V 22uF TAN	C57	043-1610-90	0.015uF	CCT2	050-0140-54	1/32W 1k ohm x4
C20	043-1614-90	470pF	C60	043-1604-90	47pF	D1	001-0367-91	1SS226TE85L
C21	043-1841-90	0.047uF	C61	043-1804-90	0.1uF	D900	060-8078-00	EZAEG3A50AV
C22	043-1614-90	470pF	C62	043-1804-90	0.1uF	D901	060-8078-00	EZAEG3A50AV
C23	043-1841-90	0.047uF	C63	043-1804-90	0.1uF	D903	001-4316-16	LM323V9T1G
C24	043-1713-90	12pF	C64	043-1804-90	0.1uF	IC1	051-6079-80	BA5830FM
C25	043-1713-90	12pF	C65	043-0423-21	10V 22uF TAN	IC2	052-3981-10	TMP92CD28AFG-6UP2
C26	043-1804-90	0.1uF	C66	043-1804-90	0.1uF	IC3	051-6733-20	TC94A70FG-010
C27	043-1611-90	2200pF	C67	043-1804-90	0.1uF	IC5	051-6926-90	BD2051AFJ
C28	043-1804-90	0.1uF	C70	168-1052-78	1uF	IC7	051-5418-08	S-80827CNMC
C30	043-1617-90	6800pF	C72	168-1052-78	1uF	IC7	051-5418-18	BD4827G
C31	043-1804-90	0.1uF	C73	043-1804-90	0.1uF	IC8	051-6928-90	341S2094
C32	043-1804-90	0.1uF	C74	043-1804-90	0.1uF	IC997	051-7226-08	TC7SH00FU
C33	043-1613-90	0.033uF	C78	043-1804-90	0.1uF	IC998	051-3536-90	AP2121AK-1.5TRE1
C34	043-1804-90	0.1uF	C79	043-1804-90	0.1uF	IC999	051-3536-90	AP2121AK-1.5TRE1
C35	043-1804-90	0.1uF	C80	043-1804-90	0.1uF	J101	074-2220-79	29P
C37	043-1804-90	0.1uF	C81	043-1804-90	0.1uF	J201	074-2215-65	15P
C38	043-0423-20	10V 10uF TAN	C82	043-1804-90	0.1uF			
C39	043-1804-90	0.1uF	C83	043-1804-90	0.1uF			
C40	043-1804-90	0.1uF	C89	043-1613-90	0.033uF			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
J301	074-2215-60	10P	R35	033-1011-15	1/16W 100 ohm	R103	033-1031-15	1/16W 10k ohm
L1	010-3105-67	COIL	R36	033-1021-15	1/16W 1k ohm	R110	033-0000-05	0.5A 0 ohm
L8	010-3105-69	COIL	R37	033-1021-15	1/16W 1k ohm	R53	033-1041-15	1/16W 100k ohm
P2	076-0478-55	5P	R39	033-4731-15	1/16W 47k ohm	R57	033-1041-15	1/16W 100k ohm
Q4	190-2060-00	2SA2060	R40	033-4731-15	1/16W 47k ohm	R59	033-4731-15	1/16W 47k ohm
Q5	191-1197-50	2SB1197K	R41	033-6831-15	1/16W 68k ohm	R60	033-1041-15	1/16W 100k ohm
Q5	190-1365-50	2SA1365	R42	033-6831-15	1/16W 68k ohm	R61	033-1041-15	1/16W 100k ohm
Q6	125-2027-92	DTC124EUA-T106	R43	033-2211-15	1/16W 220 ohm	R62	033-4731-15	1/16W 47k ohm
Q6	125-2041-93	RT1N241M	R44	033-0000-05	0.5A 0 ohm	R63	033-0000-05	0.5A 0 ohm
Q7	191-1197-50	2SB1197K	R45	033-0000-05	0.5A 0 ohm	R64	033-4731-15	1/16W 47k ohm
Q7	190-1365-50	2SA1365	R46	033-4731-15	1/16W 47k ohm	R111	033-0000-05	0.5A 0 ohm
Q8	125-2027-92	DTC124EUA-T106	R51	033-4721-15	1/16W 4.7k ohm	R114	033-1031-15	1/16W 10k ohm
Q8	125-2041-93	RT1N241M	R52	033-4721-15	1/16W 4.7k ohm	R115	033-1221-15	1/16W 1.2k ohm
R1	033-5621-15	1/16W 5.6k ohm	R65	033-4731-15	1/16W 47k ohm	R116	033-0000-05	0.5A 0 ohm
R2	033-1031-15	1/16W 10k ohm	R66	033-0000-05	0.5A 0 ohm	R117	033-0000-05	0.5A 0 ohm
R3	117-6811-15	1/10W 680 ohm	R67	033-0000-05	0.5A 0 ohm	R118	033-0000-05	0.5A 0 ohm
R4	033-1051-15	1/16W 1M ohm	R68	033-0000-05	0.5A 0 ohm	R119	033-1041-15	1/16W 100k ohm
R6	033-1021-15	1/16W 1k ohm	R69	033-1041-15	1/16W 100k ohm	R124	033-4731-15	1/16W 47k ohm
R7	117-1001-15	1/10W 10 ohm	R71	033-2211-15	1/16W 220 ohm	R203	033-0000-05	0.5A 0 ohm
R8	033-0000-05	0.5A 0 ohm	R72	033-2211-15	1/16W 220 ohm	R205	033-0000-05	0.5A 0 ohm
R9	033-0000-05	0.5A 0 ohm	R74	033-1041-15	1/16W 100k ohm	R206	033-0000-05	0.5A 0 ohm
R10	033-8231-15	1/16W 82k ohm	R75	033-1041-15	1/16W 100k ohm	R207	033-0000-05	0.5A 0 ohm
R11	032-0140-88	1/16W 100k ohm(F)	R76	033-2211-15	1/16W 220 ohm	R208	033-0000-05	0.5A 0 ohm
R12	033-1531-15	1/16W 15k ohm	R78	033-2211-15	1/16W 220 ohm	R209	033-0000-05	0.5A 0 ohm
R13	033-8231-15	1/16W 82k ohm	R79	033-1051-15	1/16W 1M ohm	R210	119-0000-05	1/10W 0 ohm JW
R15	033-2731-15	1/16W 27k ohm	R80	033-1051-15	1/16W 1M ohm	R213	033-0000-05	0.5A 0 ohm
R16	033-4731-15	1/16W 47k ohm	R81	033-4701-15	1/16W 47 ohm	R214	033-0000-05	0.5A 0 ohm
R17	033-2731-15	1/16W 27k ohm	R82	033-0000-05	0.5A 0 ohm	R215	033-0000-05	0.5A 0 ohm
R18	033-2211-15	1/16W 220 ohm	R86	033-4731-15	1/16W 47k ohm	R216	033-0000-05	0.5A 0 ohm
R19	033-2731-15	1/16W 27k ohm	R87	033-4731-15	1/16W 47k ohm	R218	033-0000-05	0.5A 0 ohm
R20	033-2731-15	1/16W 27k ohm	R88	033-4731-15	1/16W 47k ohm	R219	033-0000-05	0.5A 0 ohm
R21	033-2221-15	1/16W 2.2k ohm	R89	033-4731-15	1/16W 47k ohm	R324	033-1021-15	1/16W 1k ohm
R22	033-1051-15	1/16W 1M ohm	R92	033-1031-15	1/16W 10k ohm	TM101	073-0768-90	TERMINAL
R24	033-2211-15	1/16W 220 ohm	R93	033-1221-15	1/16W 1.2k ohm	X1	061-3534-90	16.92MHz
R27	033-4731-15	1/16W 47k ohm	R94	033-1031-15	1/16W 10k ohm	X2	061-3559-90	9MHz
R28	033-2231-15	1/16W 22k ohm	R95	033-1041-15	1/16W 100k ohm	X3	061-3522-90	32.768kHz
R29	033-2231-15	1/16W 22k ohm	R96	033-1531-15	1/16W 15k ohm	X4	061-3522-90	32.768kHz
R30	033-4731-15	1/16W 47k ohm	R97	033-1531-15	1/16W 15k ohm	PWB	039-3214-00	PWB(WITHOUT COMPONENT)
R31	033-3341-15	1/16W 330k ohm	R98	033-2701-15	1/16W 27 ohm			
R33	033-5621-15	1/16W 5.6k ohm	R99	033-2701-15	1/16W 27 ohm			

CD mechanism section 929-5016-80
SENSOR PWB (B5) section

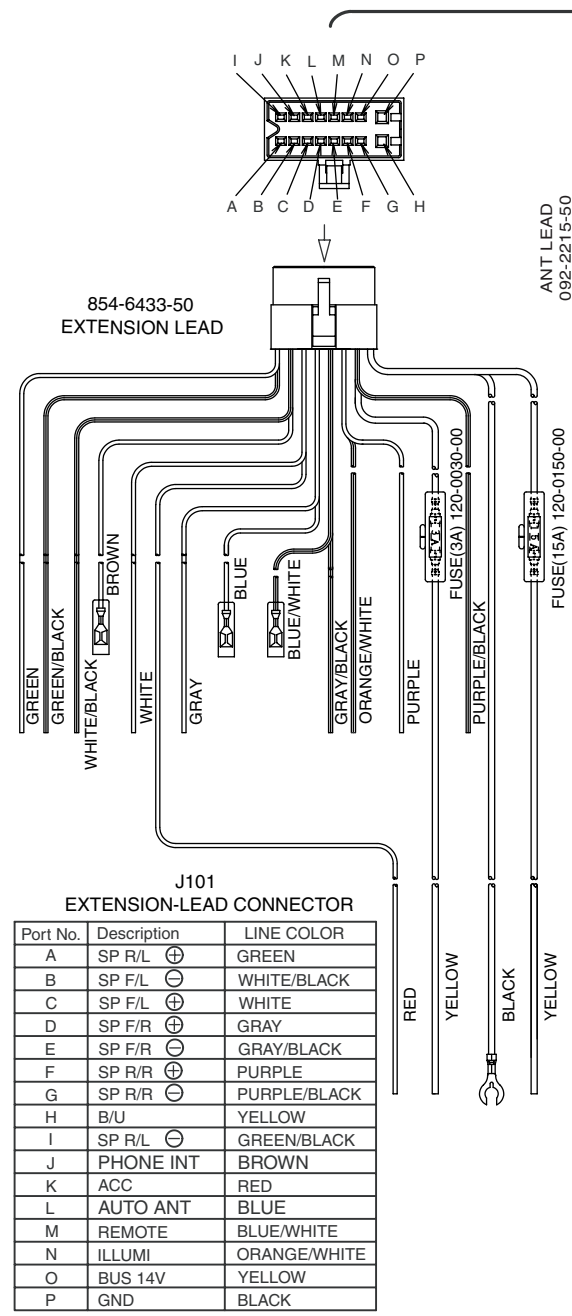
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D1	001-7058-90	AN1105W-RR	Q1	060-4015-91	PS1192HB	S2	013-7413-50	LIMIT
D2	001-7058-90	AN1105W-RR	Q2	060-4015-91	PS1192HB	PWB	039-2675-20	PWB(WITHOUT COMPONENT)
J1	074-1138-60	10P	S1	013-7414-50	CHUCKING			

INNER ES FPC(B6) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
J1000	074-1278-01	SOCKET(16P)	PWB	039-2409-05	PWB(WITHOUT COMPONENT)

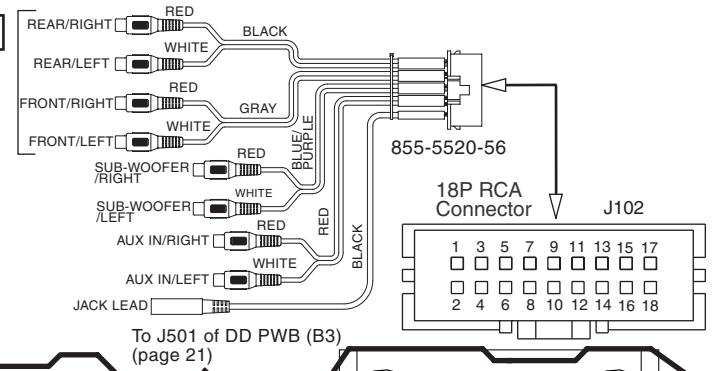
PRINTED WIRING BOARD 1/6

Main PWB(B1) section 1/2



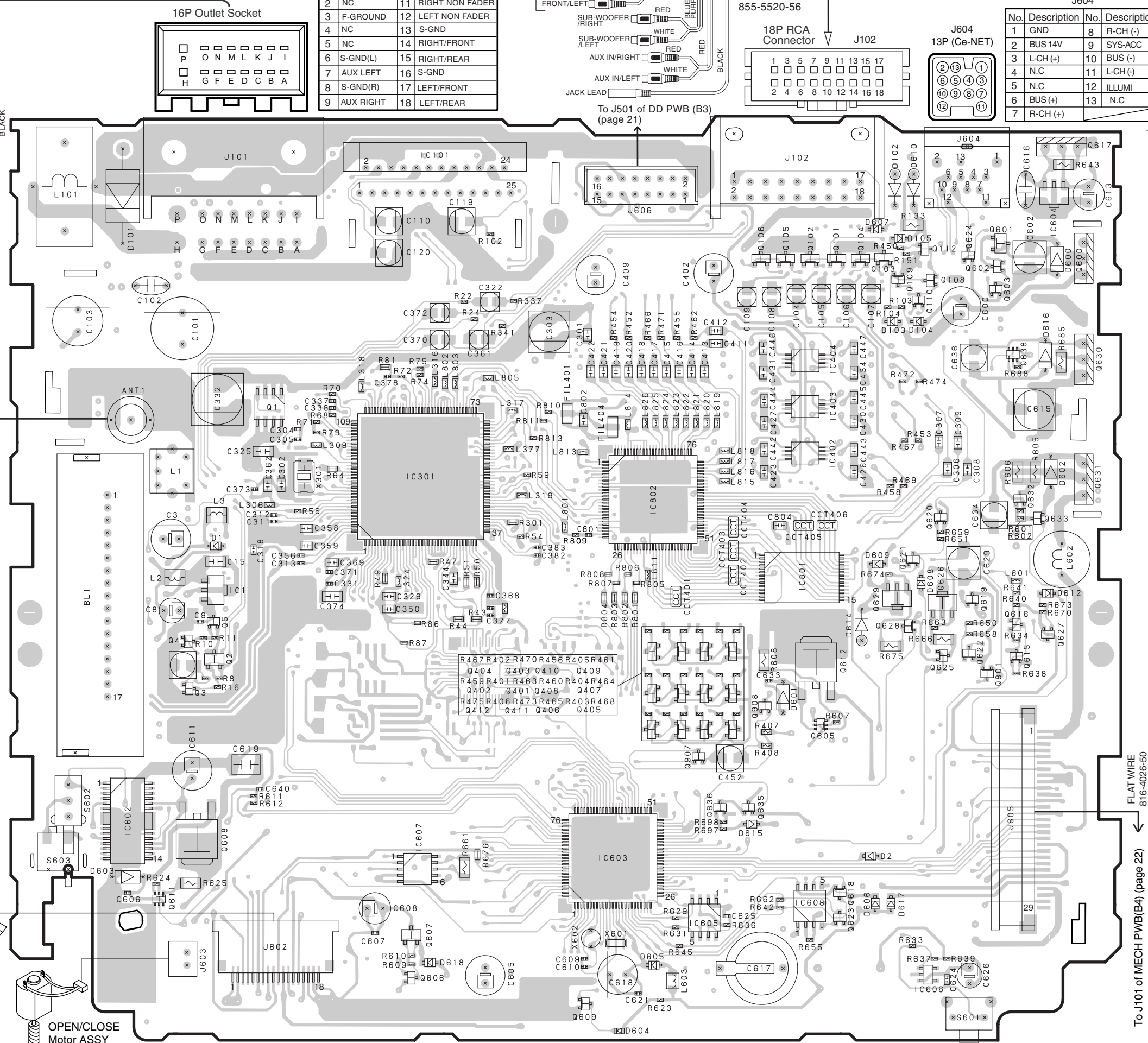
J102

No.	Description	No.	Description
1	REMOCON	10	S-GND
2	NC	11	RIGHT NON FADER
3	F-GROUND	12	LEFT NON FADER
4	NC	13	S-GND
5	NC	14	RIGHT/FRONT
6	S-GND(L)	15	RIGHT/REAR
7	AUX LEFT	16	S-GND
8	S-GND(R)	17	LEFT/FRONT
9	AUX RIGHT	18	LEFT/REAR



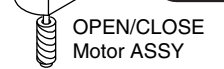
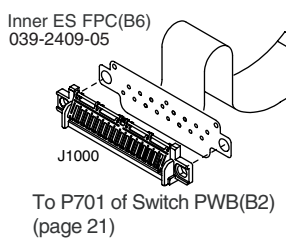
J604

No.	Description	No.	Description
1	GND	8	R-CH (-)
2	BUS 14V	9	SYS-ACC
3	L-CH (+)	10	BUS (-)
4	N.C	11	L-CH (-)
5	N.C	12	ILLUMI
6	BUS (+)	13	N.C
7	R-CH (+)		



COMPONENT SIDE

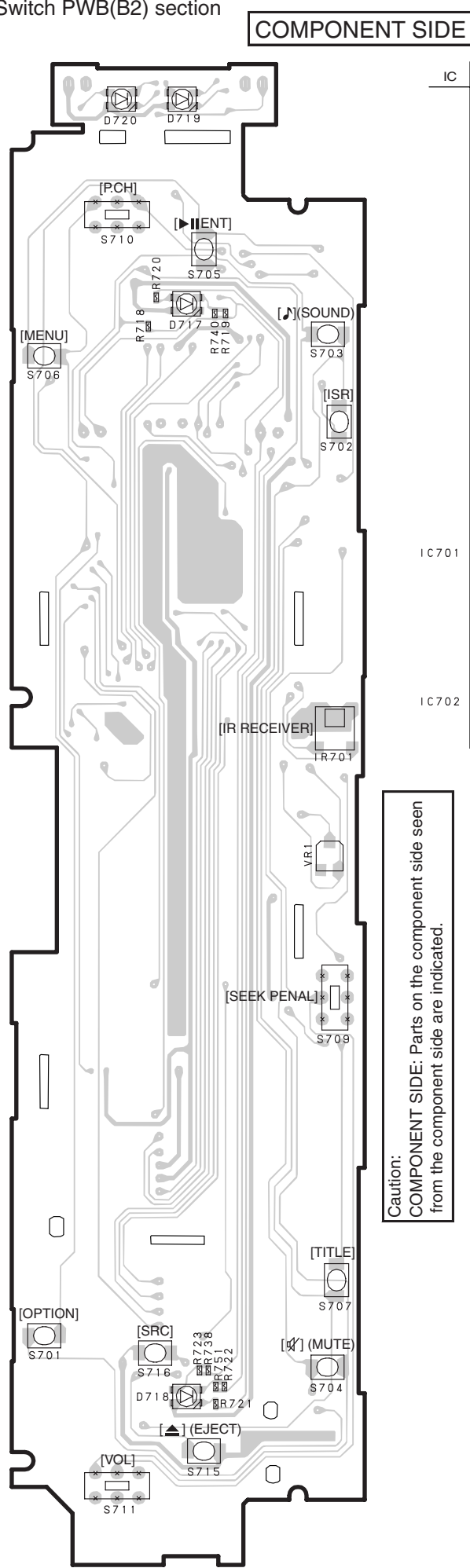
Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.



FLAT WIRE 816-4026-50
To J101 of MECH PWB(B4) (page 22)

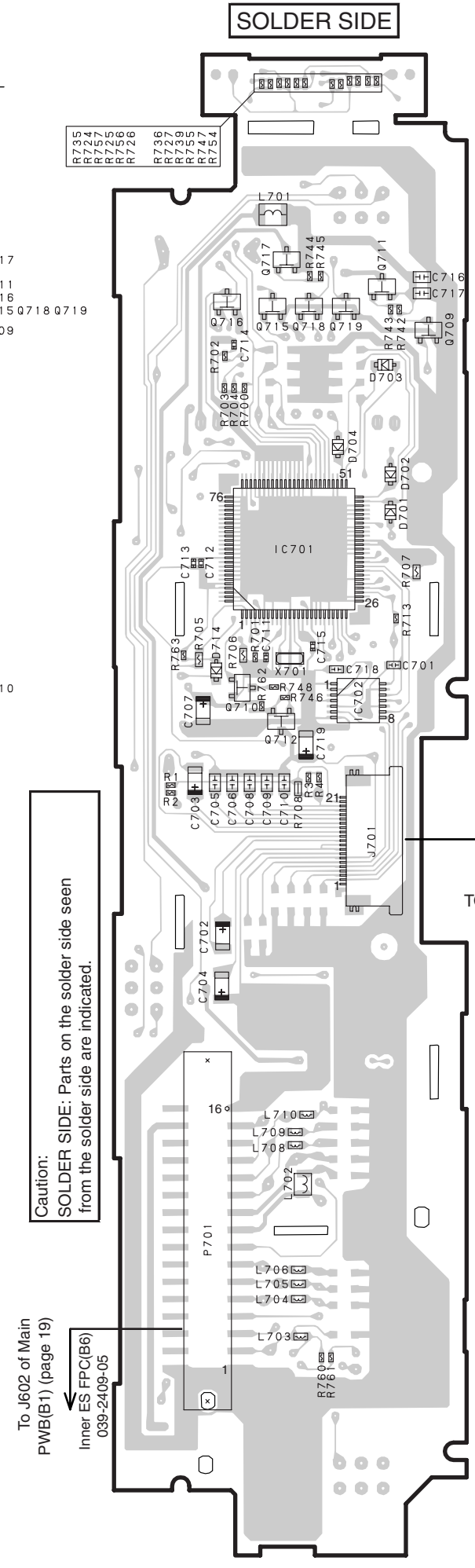
PRINTED WIRING BOARD 3/6

Switch PWB(B2) section



IC Q
Q717
Q711
Q716
Q715 Q718 Q719
Q709
IC701
Q710
IC702

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.



Caution:
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

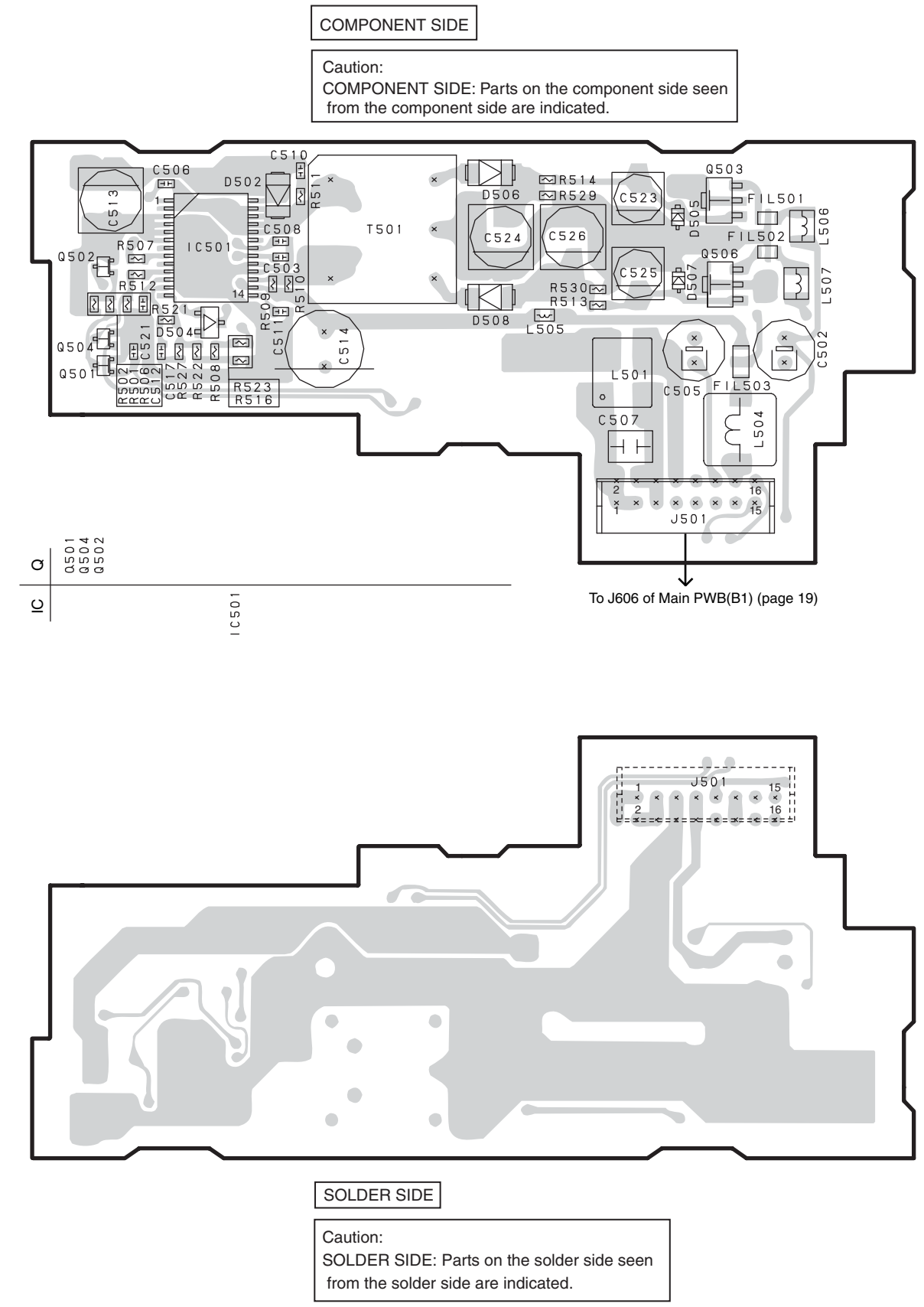
To J602 of Main PWB(B1) (page 19)
Inner ES FPC(B6) 039-2409-05

TO LCD 379-1381-81

DXZ785USB/DXZ786USB

PRINTED WIRING BOARD 4/6

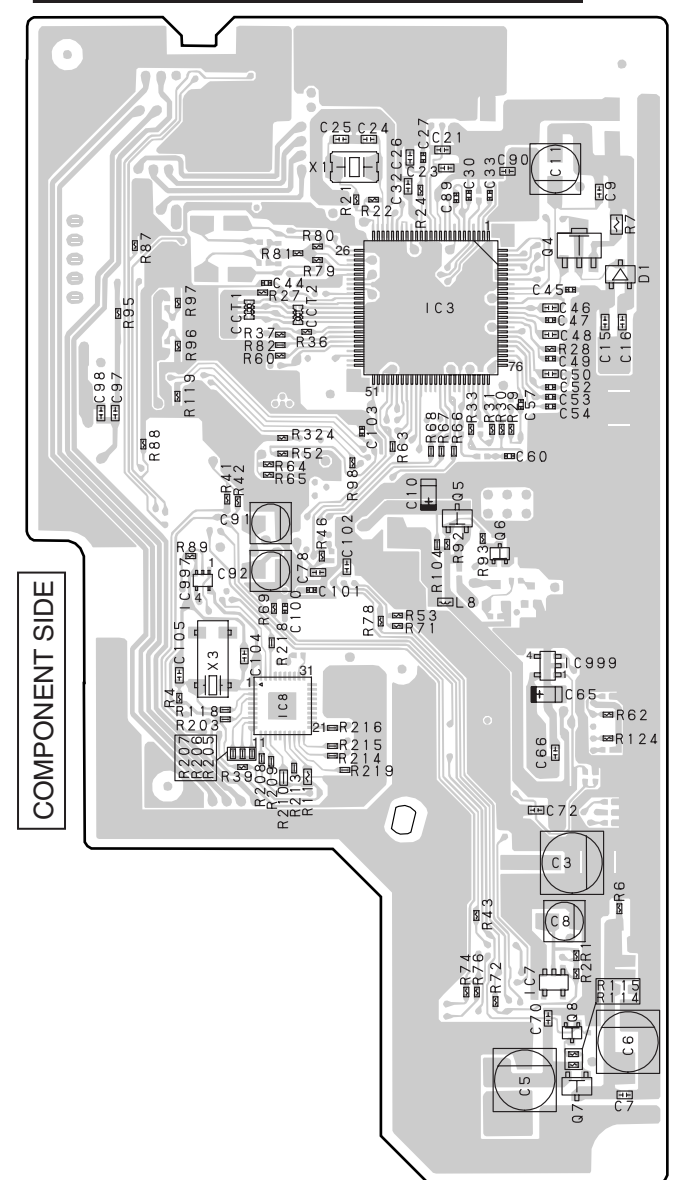
D/D PWB(B3) section



PRINTED WIRING BOARD 5/6

MECH PWB(B4) section

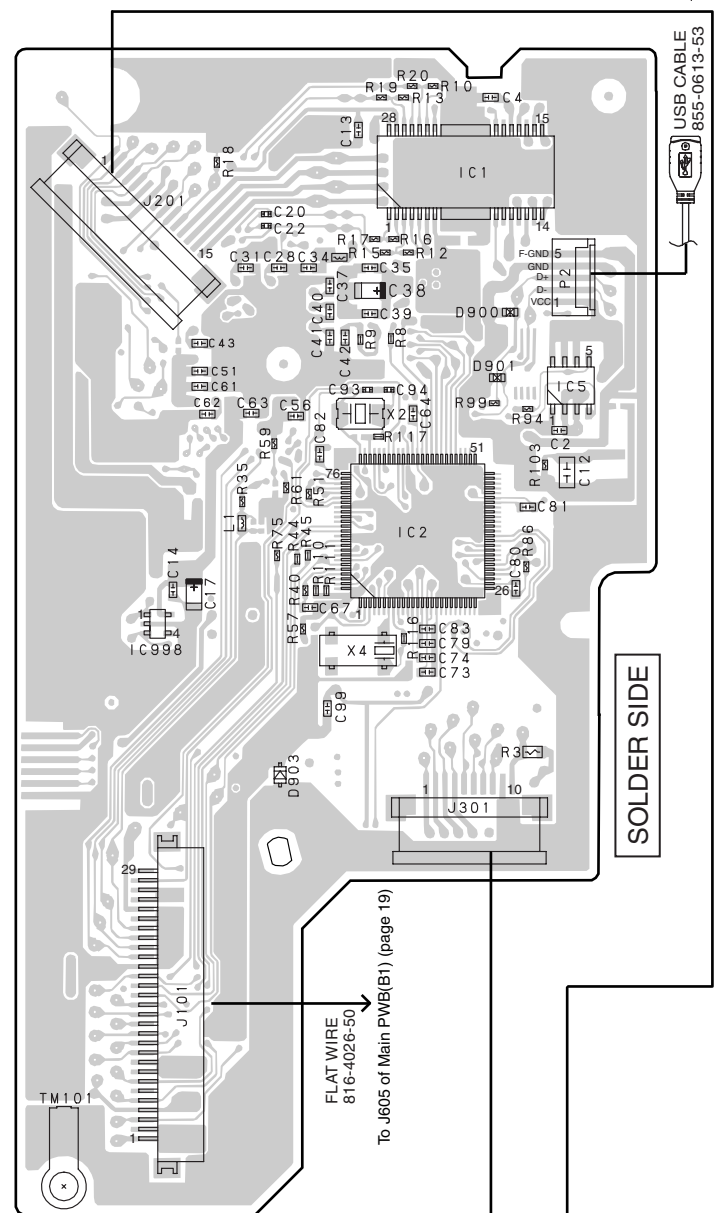
Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.



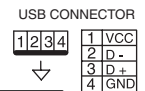
COMPONENT SIDE

IC Q
IC1
Q4
IC3
IC5
IC2
Q5
Q6
IC997
IC998
IC999
IC8
IC7
Q8
Q7

Caution:
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

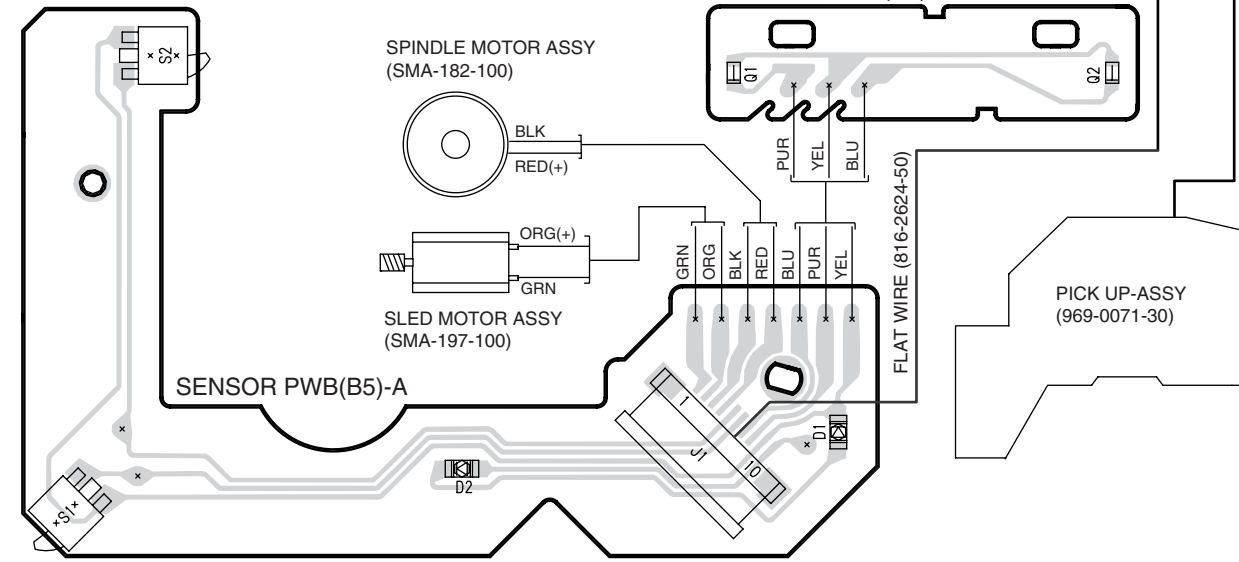


SOLDER SIDE



PRINTED WIRING BOARD 6/6

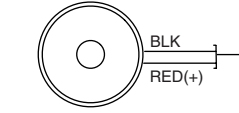
SENSOR PWB(B5) section



SENSOR PWB(B5)-B

SENSOR PWB(B5)-A

SPINDLE MOTOR ASSY (SMA-182-100)



SLED MOTOR ASSY (SMA-197-100)

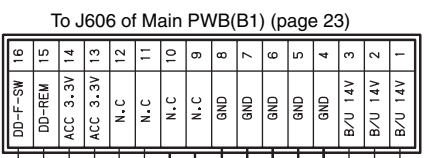
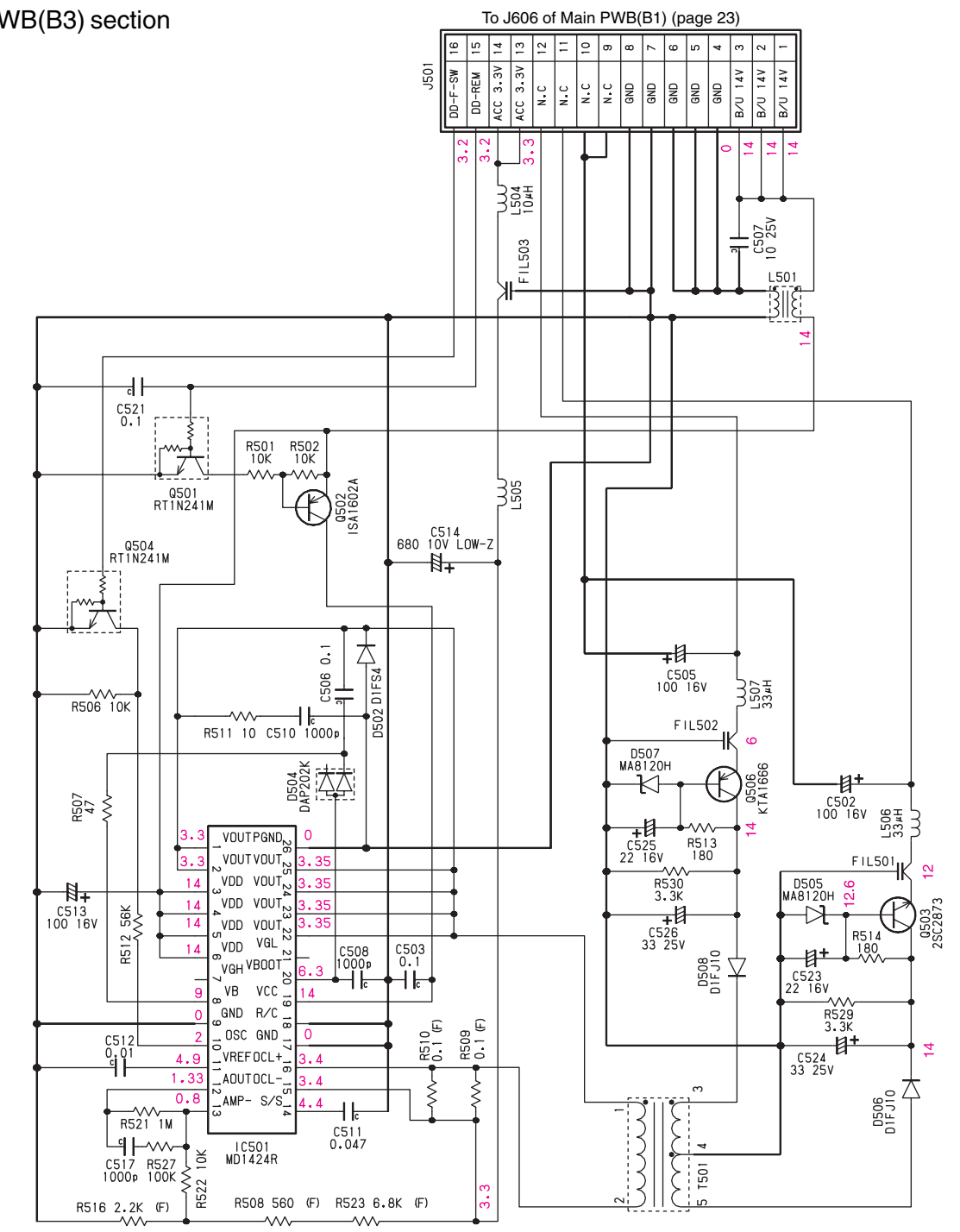


PICK UP-ASSY (969-0071-30)

FLAT WIRE (816-2624-50)

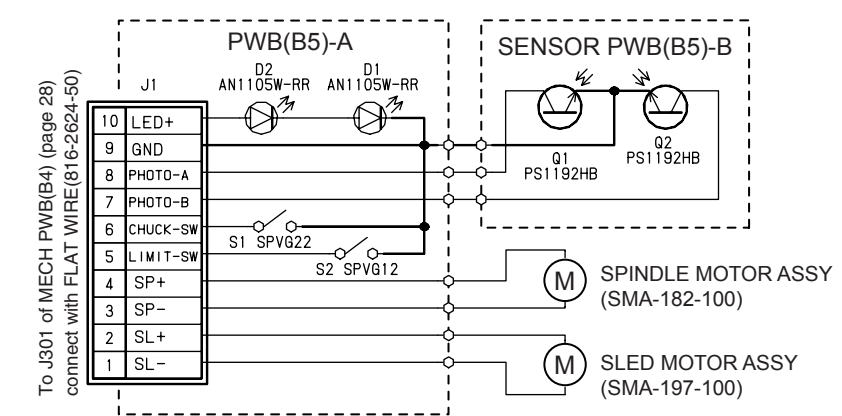
CIRCUIT DIAGRAM 1/8

D/D PWB(B3) section



CIRCUIT DIAGRAM 2/8

SENSOR PWB(B5) section



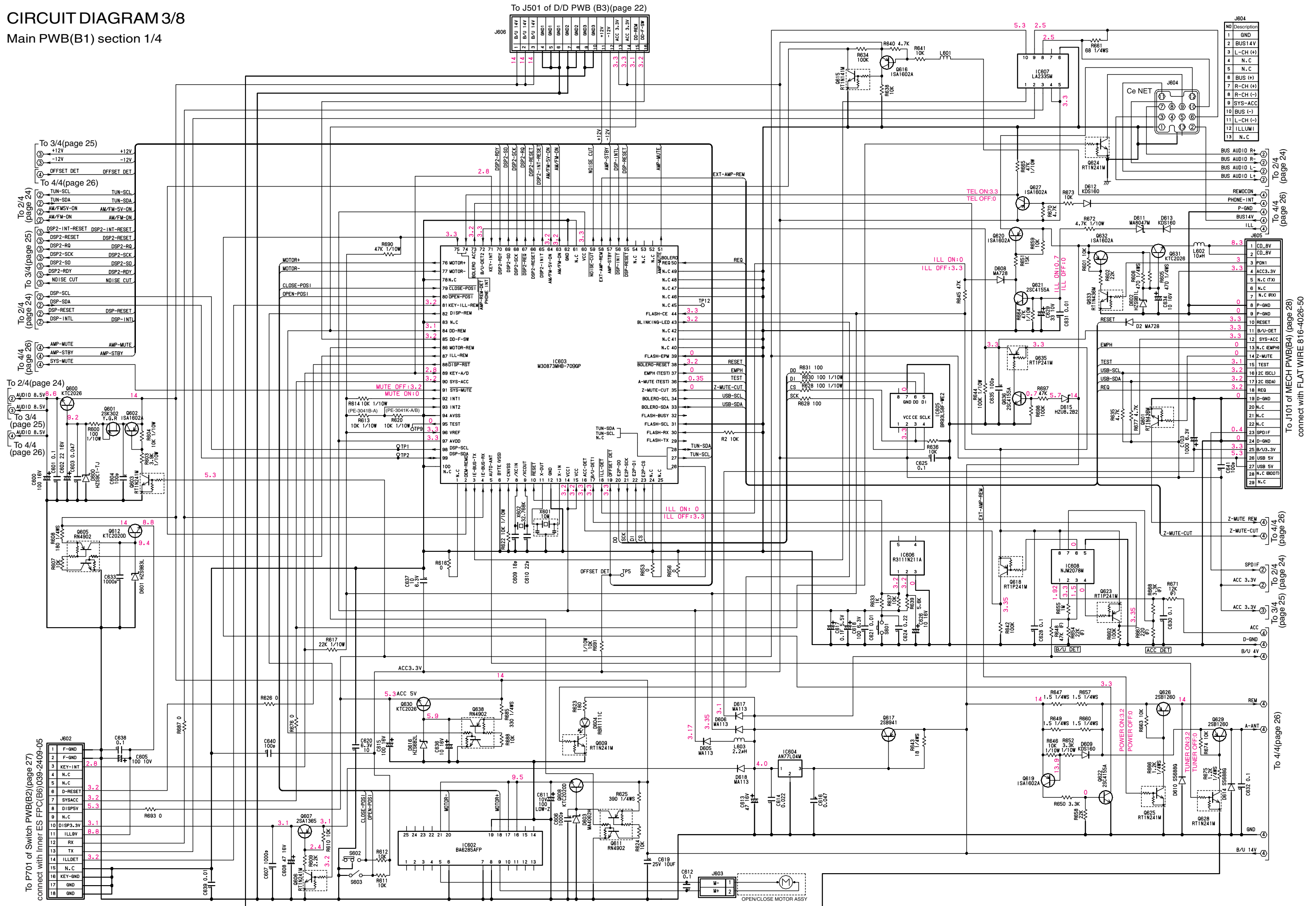
To J301 of MECH PWB(B4) (page 28) connect with FLAT WIRE(816-2624-50)

SPINDLE MOTOR ASSY (SMA-182-100)

SLED MOTOR ASSY (SMA-197-100)

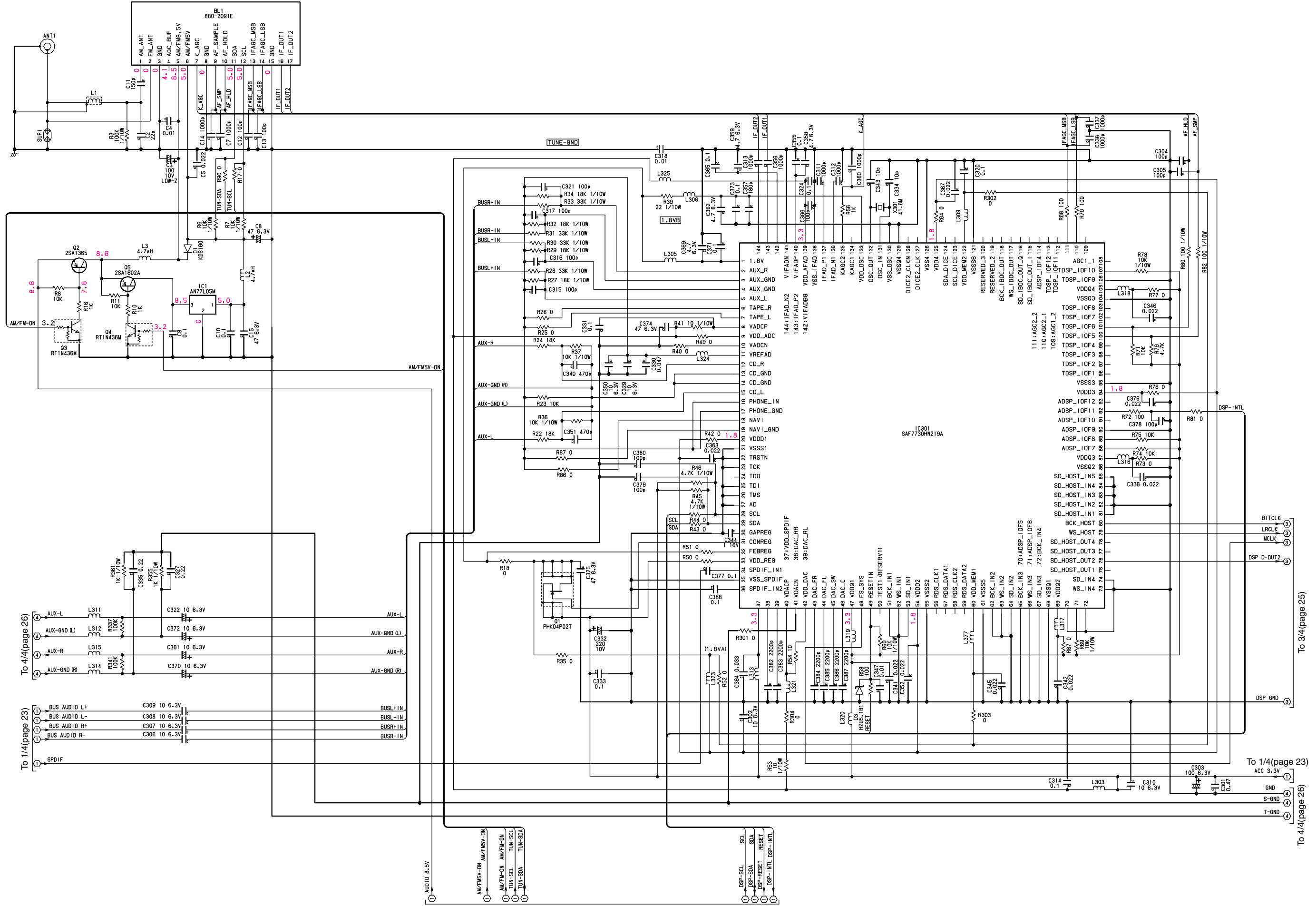
CIRCUIT DIAGRAM 3/8

Main PWB(B1) section 1/4



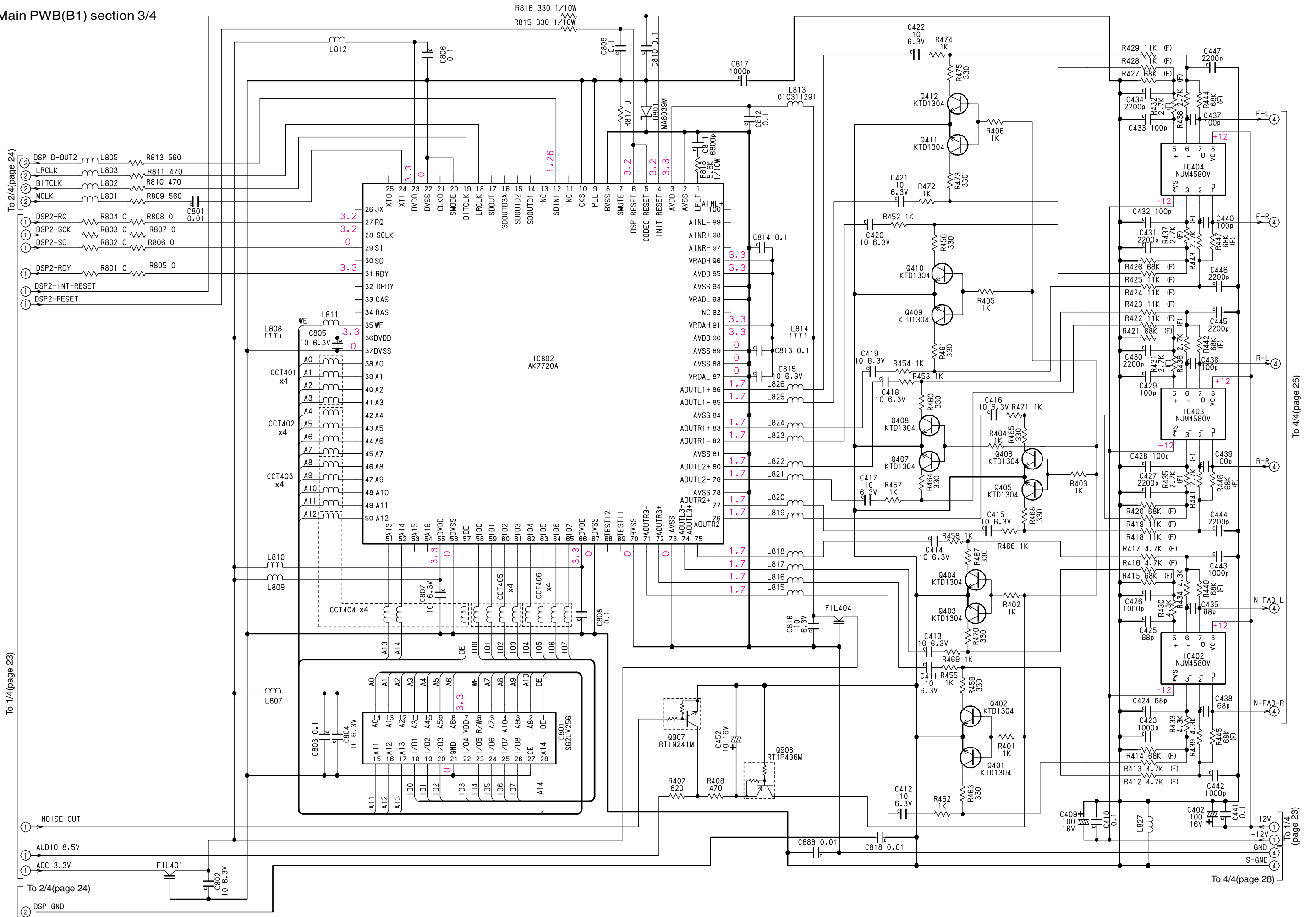
CIRCUIT DIAGRAM 4/8

Main PWB(B1) section 2/4



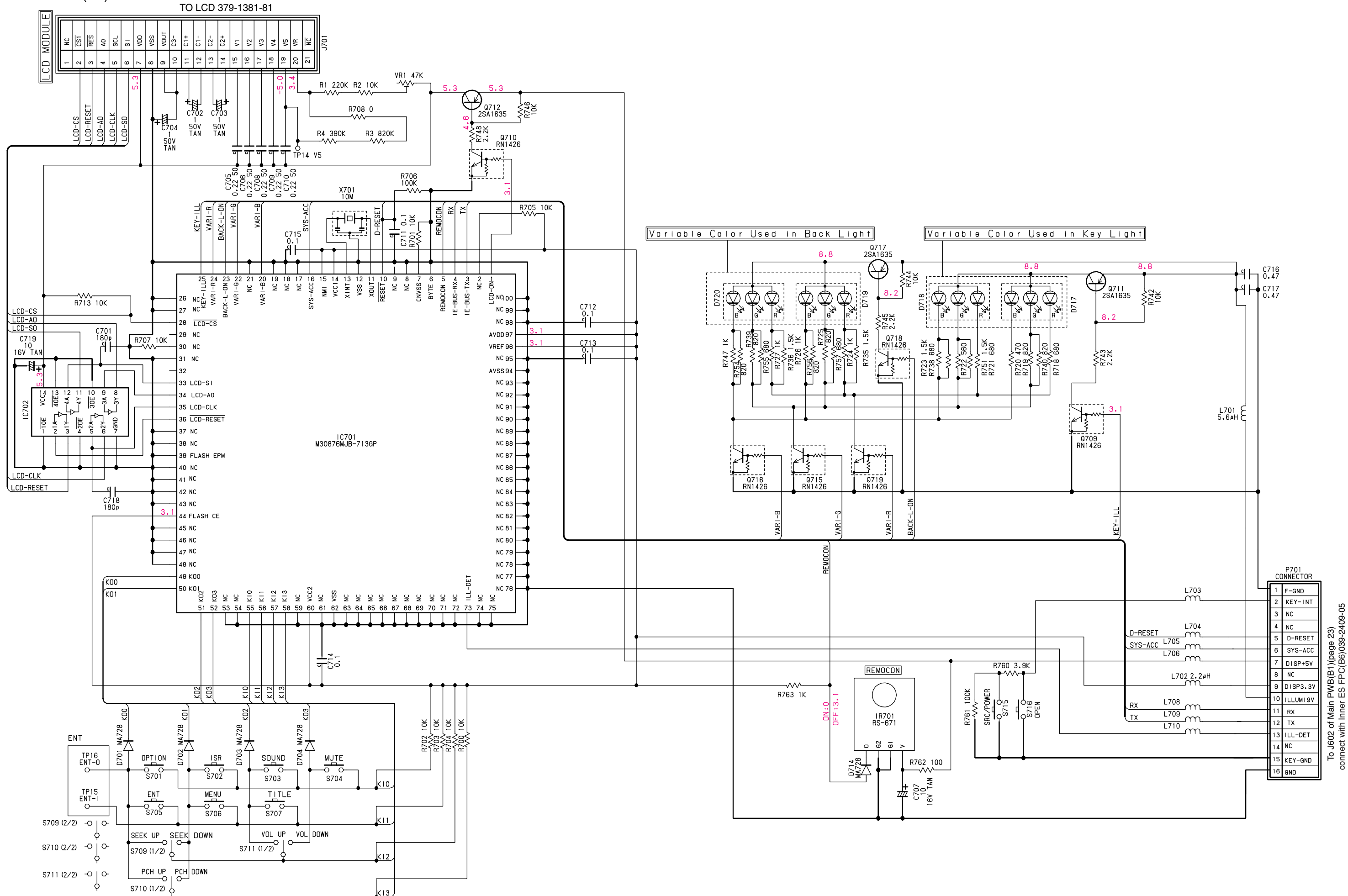
CIRCUIT DIAGRAM 5/8

Main PWB(B1) section 3/4



CIRCUIT DIAGRAM 7/8

Switch PWB(B2) section

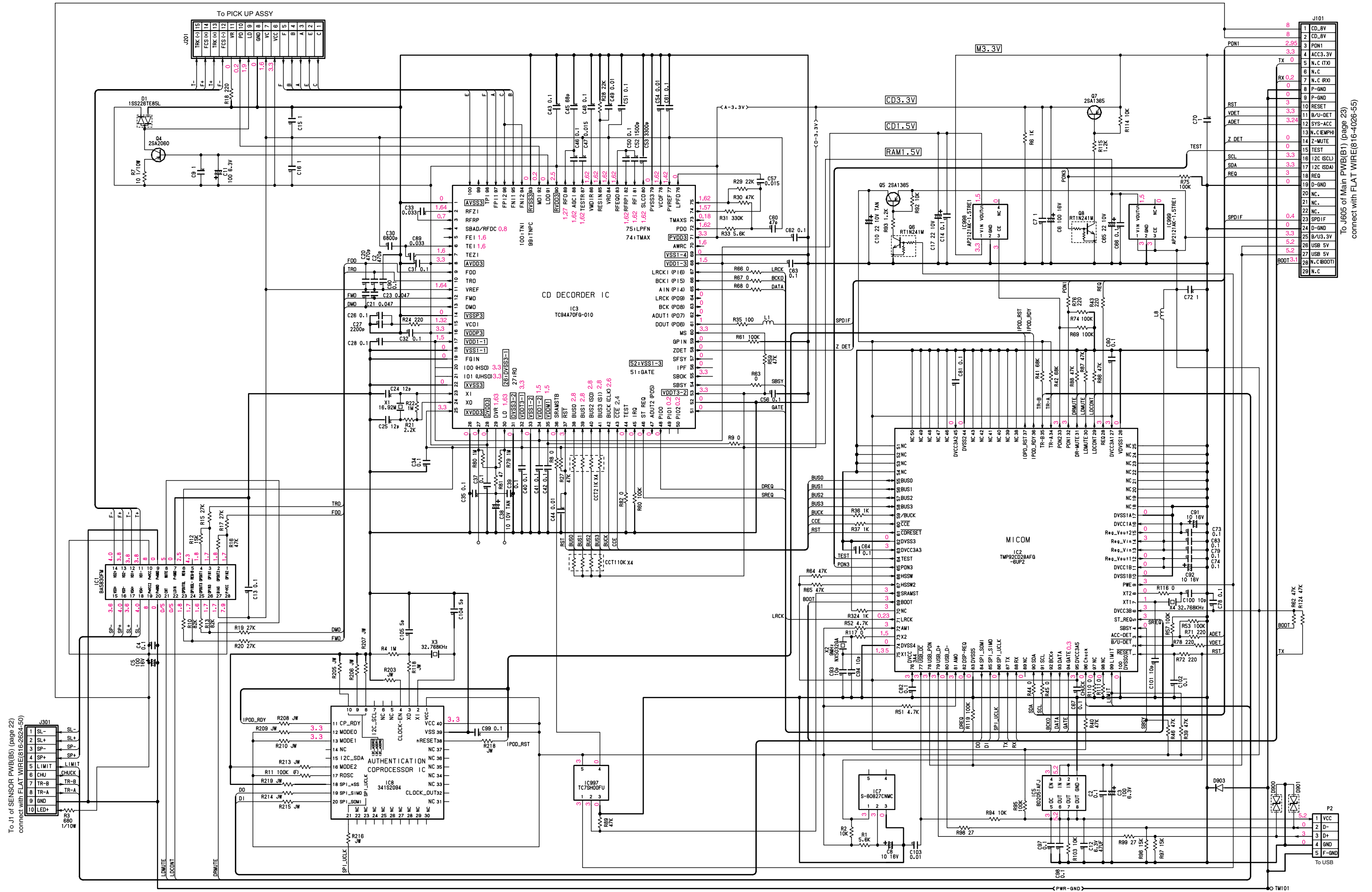


P701 CONNECTOR

1	F-GND
2	KEY-INT
3	NC
4	NC
5	D-RESET
6	SYS-ACC
7	DISP+SV
8	NC
9	DISP3.3V
10	ILLUM19V
11	RX
12	TX
13	ILL-DET
14	NC
15	KEY-GND
16	GND

To J602 of Main PWB(B1)(page 23)
connect with Inner ES FPC(B6)039-2409-05

CIRCUIT DIAGRAM 8/8
MECH PWB(B4) section



To J1 of SENSOR PWB(B5) (page 22)
connect with FLAT WIRE(816-2624-50)

To PICK UP ASSY

TRK (1)	15
FCS (1)	14
TRK (1)	13
FCS (1)	12
VR1	11
VR1	10
VR1	9
VR1	8
VR1	7
VR1	6
VR1	5
VR1	4
VR1	3
VR1	2
VR1	1

8	1	CD-.8V
8	2	CD-.8V
2.95	3	PON1
3.3	4	ACC3.3V
0	5	N.C (TX)
0	6	N.C
0	7	N.C (RX)
0	8	P-GND
3	9	P-GND
3.3	10	RESET
3.3	11	B/U-DET
3.24	12	SYS-ACC
0	13	N.C (EMPH)
0	14	Z-MUTE
3.3	15	TEST
3.3	16	I2C (ISCL)
3.3	17	I2C (SDA)
3	18	REQ
0	19	P-GND
0	20	N.C
0.4	21	N.C
3.3	22	N.C
3.3	23	SPDIF
5.2	24	P-GND
5.2	25	B/U3.3V
5.2	26	USB 5V
5.2	27	USB 5V
3	28	N.C (BOOT)
3	29	N.C

To J605 of Main PWB(B1) (page 23)
connect with FLAT WIRE(816-4026-55)

1	VCC
2	D-
3	D+
4	GND
5	F-GND

To USB