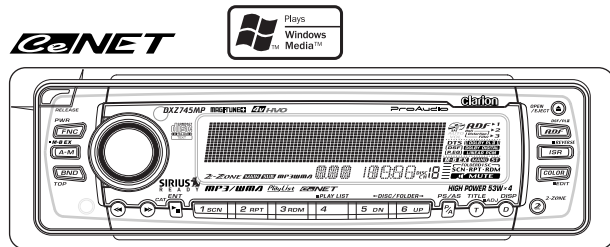


Service Manual



(DXZ745MP)

AM/FM CD/MP3/WMA Player

Model **DXZ745MP**

(PE-2619B-A for U.S.A.)

Model **DXZ746MP**

(PE-2619K-A/B for Other Countries)

SPECIFICATIONS

FM tuner section

Frequency range: 87.9MHz to 107.9MHz
 (PE-2619B-A)
 87.0MHz to 108.0MHz
 (PE-2619K-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-2619B-A)
 531kHz to 1629kHz
 (PE-2619K-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)
 Signal to noise ratio: 100dB(1kHz)
 Dynamic range: 95dB(1kHz)
 Harmonic distortion: 0.01%

MP3/WMA mode

MP3 Sampling rate: 11.025kHz to 48kHz
 MP3 Bit rate: 8kbps to 320kbps / VBR
 WMA Bit rate: 48kbps to 192kbps
 Logical format: ISO9660 level1, 2
 JOLIET or Romeo

Audio section

Maximum power output: 53Wx4
 Continuous average power output:
 18Wx4, into 4ohm, 20Hz to 20kHz,
 1%THD

Bass control action: +16dB, -12dB(50Hz/80Hz/120Hz)
 Treble control action: +12/-12dB(8kHz/12kHz)
 Line output level: 4V(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
 30g(including battery)

Dimensions(mm): Source unit
 178(W)x50(H)x155(D)
 Remote control unit
 44(W)x110(H)x27(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.
- * Only CDs and CD-ROMs having the  or  mark can be used in this unit.
- Some CDs recorded in CD-R mode may not be usable. Even when recorded in CD-RW mode, some CDs not be usable.
- * WMA is the abbreviation of Windows Media Audio, an audio file format developed by Microsoft Corporation.
- * Windows Media™, and the Windows® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- * This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

COMPONENTS

PE-2619B-A/PE-2619K-A/B

Source unit	_____	1
Remote control unit	RCB-164-201	1
Battery(SUM-3)	_____	2
Mounting bracket	300-7742-00	1
	300-4976-00	1
DCP case	335-6035-20	1
Escutcheon(OUT-ES)		
(PE-2619B-A)	370-6085-01	1
(PE-2619K-A/B)	370-6085-00	1
Extension lead	854-6349-50	1
Parts bag	_____	
Removal key	331-2497-00	2
Pad screw(PE-2619B-A)(M1.7x6)	716-0872-11	1
Screw(M5x8)	716-0496-01	1

FEATURES

- MP3 and WMA File Playable with ID3-TAG and WMA-TAG Display
- Motorized Fold Down Detachable Faceplate in Aluminum with Negative/Positive Reversible 728-Variable Color LCD and Control Buttons(PE-2619B-A)
Motorized Sloping Console Aluminum Face with Negative/Positive Reversible 728-Variable Color LC Display and Control Buttons (PE-2619K-A/B)
- ADF(Anti Distortion Filter)(PE-2619B-A)
- 24 Bit Digital to Analogue Converter for Audiophile(PE-2619B-A)
- 4 V/6ch Gold Plated RCA Output and 2ch RCA AUX Input with 3 Level Adjustments
- Retractable Volume Control for Easy Operation(PE-2619B-A)
- Sirius Control(PE-2619B-A)
- 5.1ch Decoder Control(PE-2619B-A)

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.

- 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.

- 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.

- 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.

DXZ745MP/DXZ746MP

- 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.

- Cautions regarding chips.

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). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

- 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.

- Turn the unit OFF during disassembly and parts replacement.

Recheck all work before you apply power to the unit.

- 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.

- 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.

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.

2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change.

Ensure that not foreign substances enter through the ventilation slots in the cover.

3. Cleaning the lens

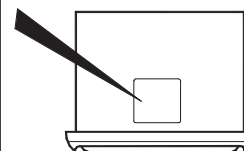
Dust on the optical lens affects performance.

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



Bottom view of DXZ745MP

About the 2-ZONE function

The 2-ZONE function is a function that outputs separate sounds from the MAIN zone and SUB zone by simultaneously operating two sources in the one center unit, thereby allowing plural listeners to enjoy separate music sources.

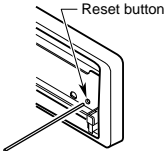
This unit can control its internal sources (radio, CD, MP3, etc.) to play back them, and further, can simultaneously play back sources from external equipment connected via CeNET (for instance, CD changers etc.).

The sources of the MAIN zone are played back from the speakers of the vehicle side, and those of the SUB zone are from the headphone systems.

Notes:

- * Except AUX, the MAIN and SUB zone cannot simultaneously use sources inside this unit.
Also, external equipment connected via CeNET cannot simultaneously be used.
- * The TV mode while the 2-ZONE function is tuned on is forced to change to "VTR playback."
- * The ISR function cannot be operated when the 2-ZONE function is turned on.
- * The Audio mode and ADF function cannot be set for the sources of the SUB zone.
- * If any of following external equipment is connected, this function is disabled.
5.1 channel surround decoder.

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 as the old fuse.
		Incorrect wiring.	Read the attached "Installation/Wire connection Guide" once 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, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not accurate.	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. 
		DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
	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	No sound heard.	MP3/WMA files are absent in a disc.	Write MP3/WMA files onto the disc properly.
		Files are not recognized as an MP3/WMA file.	Use MP3/WMA files encoded properly.
		File system is not correct.	Use ISO9660 level 1,2 or JOLIET or Romeo file system.
	Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
		Disc is heavily scratched or warped.	Replace with a disc with no scratches.
	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA files are not encoded properly.	Use MP3/WMA 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 file system.
Play list play is not performed.	File name or extension is not correct.	Use alphanumeric/ASCII characters for MP3/WMA file name. Use ".M3U" for the file extension of a play list.	

ERROR DISPLAYS

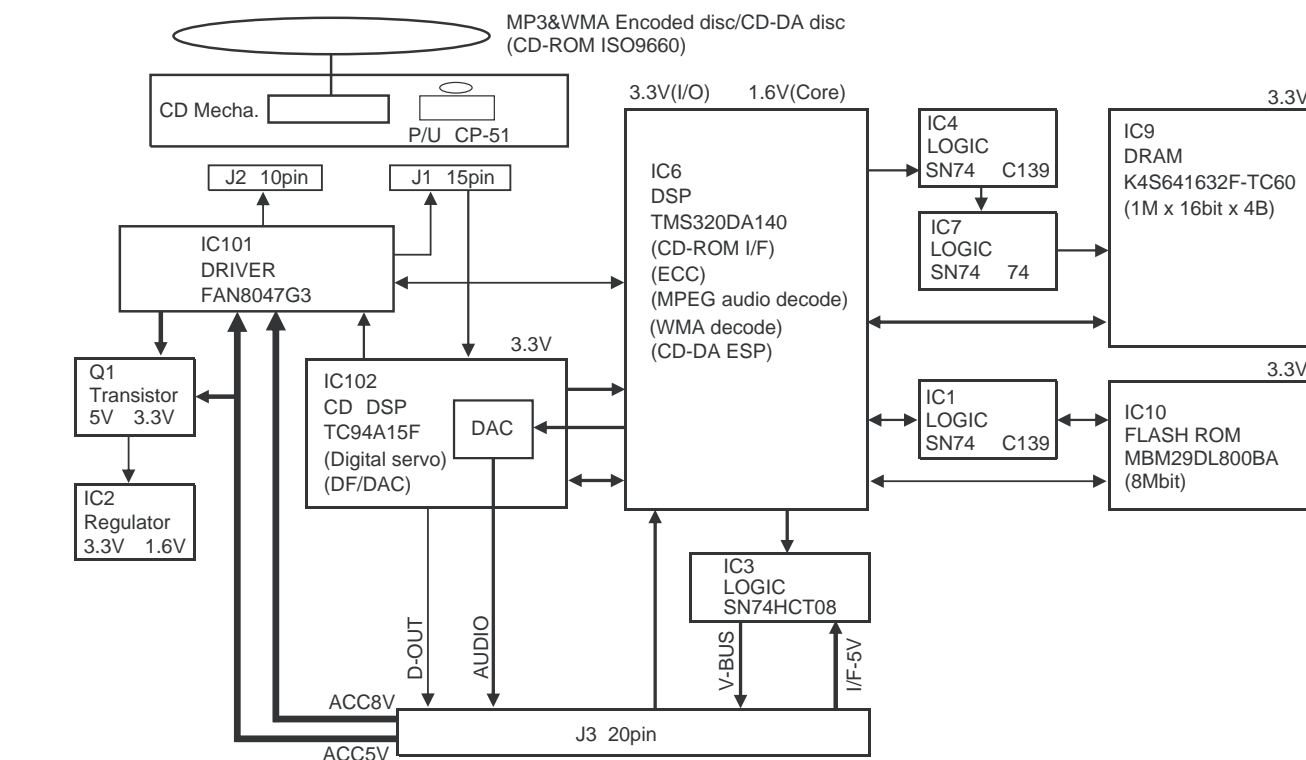
If an error occurs, one of the following displays is displayed. Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
CD	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.
General	AMP GUARD	The speaker protection circuit is operating. During this operation, if any volume operation is performed, the display shows "AMP GUARD".	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 CH	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 CH	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 upside-down.	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.

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

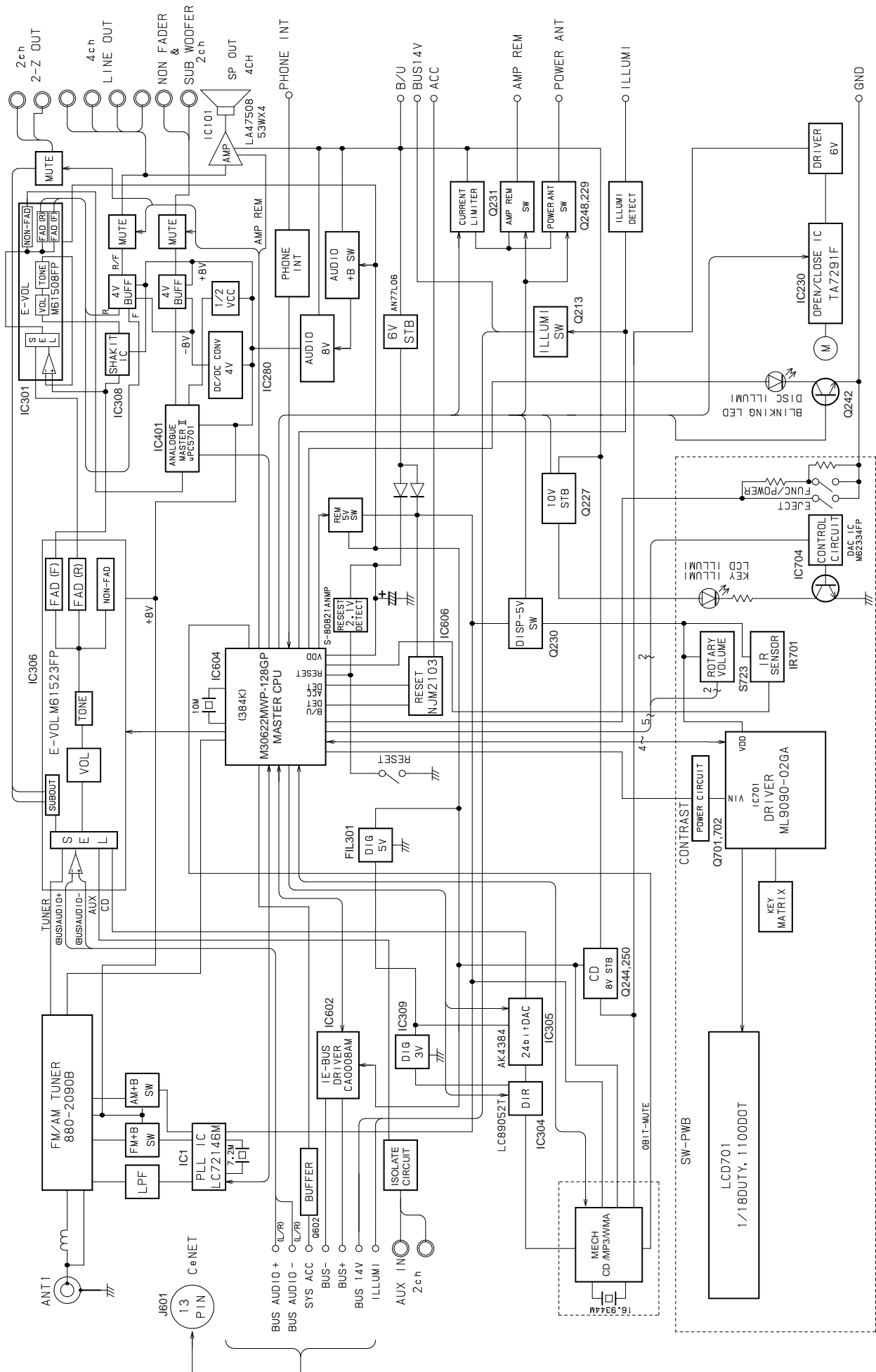
BLOCK DIAGRAM

CD mechanism section: 929-0300-82



BLOCK DIAGRAM

Main section



EXPLANATION OF IC

Main section

M30622MWP-128GP 052-3934-00 Main System controller

1. Terminal Description

pin 1 : CONTRAST-CONT : O : Contrast controller

pin 2 : TIME BASE : IN : Time base pulse input.

pin 3 : REMOCON : IN : Remote controller signal input terminal.

pin 4 : 2-Z MUTE : O : 2-ZONE mute.

pin 5 : NU : IN : Not in use.

pin 6 : BYTE : IN : The data length selection(8bit/16bit).

pin 7 : CN VSS : IN : Connect to VSS.

pin 8 : JOG-CW : IN : Jog key signal input.

pin 9 : JOG-CCW : IN : Jog key signal input.

pin 10 : RESET : IN : Reset signal input.

pin 11 : X-OUT : O : Crystal connection.

pin 12 : VSS : - : Negative supply voltage.

pin 13 : X-IN : IN : Crystal connection.

pin 14 : VCC : - : Positive supply voltage.

pin 15 : NU : IN : Not in use.

pin 16 : ACC_DET : IN : ACC detection signal input.

pin 17 : B/U_DET : IN : Backup detection signal input.

pin 18 : KEY_INT : IN : Key interrupting signal input.

pin 19 : 27pin CONNECT : IN : Connect to 27pin.

pin 20 : MOTOR+ : O : The control signal output to the motor.

pin 21 : MOTOR- : O : The control signal output to the motor.

pin 22 : SUB_0BIT_MUTE : O : CD ON signal output.

pin 23 : E_VOL CLK1 : O : Mitsubishi electric volume IC M15623FP serial signal output.

pin 24 : E_VOL DATA1 : O : Mitsubishi electric volume IC M15623FP serial signal output.

pin 25 : CATS_LED : O : CATS LED drive output.

pin 26 : NU : IN : Not in use.

pin 27 : IE BUS RX : IN : IE Bus serial data input.

pin 28 : IE BUS TX : O : IE Bus serial data output.

pin 29 : NU : O : Not in use.

pin 30 : NU : IN : Not in use.

pin 31 : NU : IN : Not in use.

pin 32 : NU : O : Not in use.

pin 33 : LCD SO : O : The serial data output to the LCD driver.

pin 34 : LCD SI : IN : The serial data input from the LCD driver.

pin 35 : LCD CLK : O : The clock pulse output to the LCD driver.

pin 36 : LCD KEY REQ : IN : LCD Key request signal output.

pin 37 : LCD CS : O : Chip select signal output to LCD.

pin 38 : DIR CSN : O : The chip select signal to DIR IC.

pin 39 : NU : IN : Not in use.

pin 40 : MP3 SRQ : IN : MP3 request signal input.

pin 41 : MP3 CS : O : MP3 chip selection signal output.

pin 42 : MP3 WP : O : MP3 wakeup signal output.

pin 43 : MP3 RESET : O : MP3 reset signal output.

pin 44 : E/INT : IN : The emphasis data input for the digital-audio-interface-receiver.

pin 45 : INIT 1 : IN : The initial setting input.

pin 46 : MAIN_0Bit_MUTE : O : When main zone, CD mode the port HI.

pin 47 : FIL CONT 1 : O : The cut off control signal output to the filter.

pin 48 : FIL CONT 2 : O : The cut off control signal output to the filter.

pin 49 : PLL CE : O : The chip enable signal output to the PLL IC.

pin 50 : PLL SCK : O : The clock pulse output to the PLL IC.

pin 51 : PLL SI : IN : Serial data input from the PLL IC.

pin 52 : PLL SO : O : Serial data output to the PLL IC.

pin 53 : VARI SCL : O : Variable color clock output.

pin 54 : VARI SDA : O : Variable color serial data output.

pin 55 : DIR CLK : O : DIR-IC serial clock signal.

pin 56 : DIR DATA : O : DIR-IC serial DATA signal input.

pin 57 : DIG RESET : O : The reset pulse output.

pin 58 : DAC DATA : O : The serial data output to DAC.

pin 59 : DAC CLK : O : The clock pulse output to DAC.

pin 60 : VCC : - : Positive supply voltage.

pin 61 : DAC_CSN : O : The chip select signal output to DAC.

pin 62 : VSS : - : Negative supply voltage.

pin 63 : OPEN POSI : IN : The open position detect signal input.

pin 64 : NU : IN : Not in use.

pin 65 : ST/SD : IN : At receiving the FM station, this port detects the stereo signal. At seeking or scanning, this port detects the station detection signal.

pin 66 : NU : O : Not in use.

pin 67 : NU : O : Not in use.

pin 68 : NU : O : Not in use.

pin 69 : NU : O : Not in use.

pin 70 : NU : IN : Not in use.

pin 71 : OFFSET DET : IN : The emergency signal input from the power IC.

pin 72 : DIG 5V : O : The ON signal output to the power supply section.

pin 73 : NU : IN : Not in use.

pin 74 : E-VOL CLK2 : O : Clock pulse output to the volume IC. (M61508FP)

pin 75 : E-VOL DATA2 : O : The serial data output to the volume IC. (M61508FP)

pin 76 : CLOSE POSI : IN : The close position detect signal input.

pin 77 : NU : O : Not in use.

pin 78 : AMP MUTE : O : Muting signal output to the Audio Power Amplifier.

pin 79 : NU : O : Not in use.

pin 80 : SYS MUTE : O : System muting signal output.

pin 81 : PHONE INT : IN : The telephone interrupt signal input.

pin 82 : ILLUMI DET : IN : Illumination ON signal input.

pin 83 : AMP-REMDT : IN : Remote controller wire short detection.

pin 84 : EX-AMPREM : O : Extra audio power amplifier.

pin 85 : AUTO ANT : O : Motor antenna control signal output.

pin 86 : 5V REM : O : ON signal output to the 5V power supply.

pin 87 : NU : IN : Not in use.

pin 88 : NU : IN : Not in use.

pin 89 : KEY A/D : IN : Input terminal of A/D converter for Key judgment.

pin 90 : NU : IN : Not in use.

pin 91 : DISP5V_REM : O : The ON signal output to the power supply section.

pin 92 : INT-AMPREM : O : The control signal output to internal audio power amplifier.

pin 93 : SYS ACC : O : ACC detect signal output.

pin 94 : A VSS : - : Analog ground.

pin 95 : NU : IN : Not in use.

pin 96 : VREF : IN : Reference voltage.

pin 97 : A VCC : - : Positive supply voltage for the internal analog section.

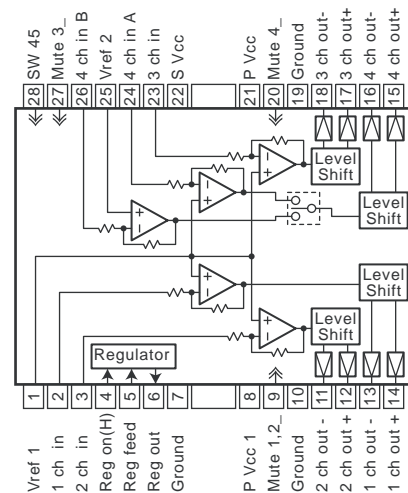
pin 98 : MP3 SI : IN : MP3 serial data input.

pin 99 : MP3 SO : O : MP3 serial data output.

pin100 : MP3 SCK : O : MP3 clock output.

CD mechanism section: 929-0300-82

051-6069-08 FAN8047G3 4 channel Motor Driver



Function Table

SW45 in (pin 28)	Mute1,2_ in (pin 9)	Mute 3_ in (pin 27)	Mute 4_ in (pin 20)	1 ch out (pin13,14)	2 ch out (pin11,12)	3 ch out (pin17,18)	4 ch out (pin15,16)
H	H	H	x	ON	ON	ON	ON A
H	H	L	x	ON	ON	OFF	ON A
H	L	H	x	OFF	OFF	ON	OFF
H	L	L	x	OFF	OFF	OFF	OFF
L	x	x	H	OFF	OFF	OFF	ON B
L	x	x	L	OFF	OFF	OFF	OFF

1. Terminal Description

pin 1: Address 15	:IN: Address signal input.
pin 2: Address 14	:IN: Address signal input.
pin 3: Address 13	:IN: Address signal input.
pin 4: Address 12	:IN: Address signal input.
pin 5: Address 11	:IN: Address signal input.
pin 6: Address 10	:IN: Address signal input.
pin 7: Address 9	:IN: Address signal input.
pin 8: Address 8	:IN: Address signal input.
pin 9: NU	: - : Not in use.
pin 10: NU	: - : Not in use.
pin 11: WE	:IN: Write enable signal input.
pin 12: RESET	:IN: Reset signal input.
pin 13: NU	: - : Not in use.
pin 14: NU	: - : Not in use.
pin 15: Ready/Busy	: O : Ready/Busy flag output, H = Ready.
pin 16: Address 18	:IN: Address signal input.
pin 17: Address 17	:IN: Address signal input.
pin 18: Address 7	:IN: Address signal input.
pin 19: Address 6	:IN: Address signal input.
pin 20: Address 5	:IN: Address signal input.
pin 21: Address 4	:IN: Address signal input.
pin 22: Address 3	:IN: Address signal input.
pin 23: Address 2	:IN: Address signal input.
pin 24: Address 1	:IN: Address signal input.
pin 25: Address 0	:IN: Address signal input.
pin 26: CE	:IN: Chip enable signal input.
pin 27: VSS	: - : Negative supply voltage.
pin 28: OE	:IN: Output enable signal input.
pin 29: DQ 0	:I/O: The data input / output.
pin 30: DQ 8	:I/O: The data input / output.
pin 31: DQ 1	:I/O: The data input / output.
pin 32: DQ 9	:I/O: The data input / output.
pin 33: DQ 2	:I/O: The data input / output.
pin 34: DQ 10	:I/O: The data input / output.
pin 35: DQ 3	:I/O: The data input / output.
pin 36: DQ 11	:I/O: The data input / output.
pin 37: VCC	: - : Positive supply voltage.
pin 38: DQ 4	:I/O: The data input / output.
pin 39: DQ 12	:I/O: The data input / output.
pin 40: DQ 5	:I/O: The data input / output.
pin 41: DQ 13	:I/O: The data input / output.
pin 42: DQ 6	:I/O: The data input / output.
pin 43: DQ 14	:I/O: The data input / output.
pin 44: DQ 7	:I/O: The data input / output.
pin 45: DQ 15/A-1	:I/O: The data input/output, The Address signal input.
pin 46: VSS	: - : Negative supply voltage.
pin 47: BYTE	:IN: The data length selection(8bit/16bit).
pin 48: Address 16	:IN: Address signal input.

051-6399-00 TC94A15F

CD IC

1. Terminal Description

pin 1: IPF OUT	: O : IP flag output.
pin 2: SB OK O	: O : Sub code Q data CRCC OK signal output.
pin 3: CLOCKIO	:I/O: The clock pulse input/output for the sub code reading.
pin 4: VDD	: - : Positive supply voltage.
pin 5: VSS	: - : Negative supply voltage.
pin 6: DATA	: O : DATA
pin 7: SF SY O	: O : Playback frame synchronous signal output.
pin 8: SB SY O	: O : Sub code block synchronous signal output.
pin 9: HSO	: O : The play speed flag output.
pin 10: UHSO	: O : The play speed flag output.
pin 11: AR SEL IN	:IN: Fix to the high level.
pin 12: AWRC	: O : The control signal output for the active wide range VCO.
pin 13: P VDD	: - : PLL positive supply voltage.
pin 14: PDO	: O : Phase difference signal output of EFM-PLCK.
pin 15: TMAX S	: O : T max judgment output.

pin 16: TMAX	: O : T max judgment output.
pin 17: LPF N	:IN: Inverted input of LPF for PLL.
pin 18: LPF OUT	: O : The output terminal for the Low Pass Filter.
pin 19: P Vref	: - : PLL reference voltage.
pin 20: VCO FILTER	: O : Loop filter for VCO.
pin 21: VCO Ref	:IN: VCO reference voltage input.
pin 22: DTC N	: O : For the analog slicer.
pin 23: DTC P	: O : For the analog slicer.
pin 24: PLL VSS	: - : PLL ground.
pin 25: SLCO	: O : Output of internal DAC for data slice level generation.
pin 26: RF IN	:IN: RF signal input.
pin 27: RF RP	:IN: RF ripple input.
pin 28: RF EQ OUT	: O : The output of the RF equalizer.
pin 29: A VDD	: - : Positive supply voltage for the Analog section.
pin 30: RES IN	: - : For reference current setting.
pin 31: Vref OUT	: O : The reference voltage output.
pin 32: VMDIR	: O : The reference voltage output.
pin 33: TESTR	: O : The compensation terminal for RFEQO offset.
pin 34: INVSEL	:IN: MDI polarity selection.
pin 35: AGCI	:IN: The input terminal of RF AGC amplifier.
pin 36: RF DCI	:IN: The input terminal for RF peak detection.
pin 37: RF OUT	: O : RF signal output.
pin 38: PN SEL	:IN: The transistor type selection input for laser diode driver. L=NPN, H=PNP.
pin 39: EQ SET	: O : The equalizer setting terminal.
pin 40: RF VDD	: - : RF power supply.
pin 41: LDO	: O : The laser diode drive output.
pin 42: MDI	:IN: Monitor photo diode signal input.
pin 43: RF VSS	: - : RF ground.
pin 44: FNI 2	:IN: Main beam signal input.
pin 45: FNI 1	:IN: Main beam signal input.
pin 46: FPI 2	:IN: Main beam signal input.
pin 47: FPI 1	:IN: Main beam signal input.
pin 48: TPI	:IN: Sub beam signal input.
pin 49: TNI	:IN: Sub beam signal input.
pin 50: FTEO	: O : For test.
pin 51: RF ZI	:IN: RF ripple zero cross signal input.
pin 52: A VSS	: - : Analog ground.
pin 53: RF RP	: O : RF ripple signal output.
pin 54: RF DC	: O : RF peak detection signal output. (hologram suitable)
pin 55: FEI	: O : Focus error signal output.
pin 56: SBAD	: O : Sub beam add signal output.
pin 57: TEI	: O : Tracking error signal output.
pin 58: TE Z IN	:IN: Tracking error signal input for zero cross.
pin 59: A VDD	: - : Positive supply voltage for the Analog section.
pin 60: FOO	: O : Focus equalizer output.
pin 61: TRO	: O : Tracking equalizer output.
pin 62: Vref	: O : Reference voltage output.
pin 63: FMO	: O : Field equalizer output / Speed error output.
pin 64: DMO	: O : Disk equalizer output.
pin 65: IO2A	:I/O: General input/output.
pin 66: IO3A	:I/O: General input/output.
pin 67: MONIT	: O : Internal DSP signal monitor.
pin 68: FG IN	:IN: FG input for the spindle CAV servo.
pin 69: VSS	: - : Negative supply voltage.
pin 70: VDD	: - : Positive supply voltage.
pin 71: TESIN	:IN: For test.
pin 72: X VSS	: - : Master clock analog ground.
pin 73: X IN	:IN: Crystal connection.
pin 74: X O	: O : Crystal connection.
pin 75: X VDD	: - : Clock power supply.
pin 76: D VSS	: - : Digital ground.
pin 77: RO	: O : Right channel data output for 1-bit DAC.
pin 78: D VDD	: - : Positive supply voltage for the digital section.
pin 79: D Vref	: O : Digital reference voltage.
pin 80: LO	: O : Left channel data output for 1-bit DAC.
pin 81: D VSS	: - : Digital ground.

pin 82: Z DET O : O : 1bit DAC zero flag output.
pin 83: VSS : - : Negative supply voltage.
pin 84: BUS 0 :/O: CD IC Data input / output.
pin 85: BUS 1 :/O: CD IC Data input / output.
pin 86: BUS 2 :/O: CD IC Data input / output.
pin 87: BUS 3 :/O: CD IC Data input / output.
pin 88: BU CK IN :IN: CD IC Data clock input.
pin 89: CCEI :IN: Chip enable input.
pin 90: RSTI :IN: Reset signal input.
pin 91: VDD : - : Positive supply voltage.
pin 92: EMPHI/FAO :/O: Emphasis input for 1-bit DAC / Flag A output.
pin 93: BCKI/FBO :/O: Bit clock input for 1-bit DAC / Flag B output.
pin 94: AIN/FCO :/O: Audio input for 1-bit DAC / Flag C output.
pin 95: LRCKI/FDO :/O: LR clock input for 1-bit DAC / Flag D output.
pin 96: EMPHO : O : Emphasis flag output. H=Emphasis ON.
pin 97: B CK O : O : Bit clock output.
pin 98: A OUT : O : Audio signal output.
pin 99: LR CK O : O : LR clock output.
pin100: D OUT : O : Serial data output.

pin 46: NU :IN: Not in use.
pin 47: MS SI :IN: Serial data input from Master Computer.
pin 48: C DAC BCK : O : Bit clock output for the internal DAC of CD IC.
pin 49: MS SCK :IN: Serial clock input from Master Computer.
pin 50: VSS : - : Negative supply voltage.
pin 51: NU : O : Not in use.
pin 52: VDD : - : Positive supply voltage.
pin 53: C DAC LRCK : O : LR clock output for the internal DAC of CD IC.
pin 54: MS CS :IN: Chip select input from Master Computer.
pin 55: NU : O : Not in use.
pin 56: VDD : - : Positive supply voltage.
pin 57: VSS : - : Negative supply voltage.
pin 58: C BUS 0 :/O: Data bus for CD IC.
pin 59: C DAC SD : O : Serial data output for the internal DAC of CD IC.
pin 60: MS SO : O : Serial data output to Master Computer.
pin 61: NU : O : Not in use.
pin 62: NU :IN: Not in use.
pin 63: NU :IN: Not in use.
pin 64: WUP :IN: V BUS WUP.
pin 65: SBSY :IN: Sub code block synchronous signal detection input.

pin 66: C BMOVF :IN: Buffer memory over flag input from CD IC.
pin 67: SCK :IN: The clock pulse input.
pin 68: VDD : - : Positive supply voltage.
pin 69: C BUS 1 :/O: Data bus for CD IC.
pin 70: VSS : - : Negative supply voltage.
pin 71: LIMIT :IN: Inside limit switch signal input for the pickup.
pin 72: VSS : - : Negative supply voltage.
pin 73: C PF/ CHUCK :IN: C2 correction data input from CD IC. Or chucking signal input from the mechanism.
pin 74: LD MUTE : O : Muting signal output to the CD mechanism.
pin 75: VDD : - : Positive supply voltage.
pin 76: VSS : - : Negative supply voltage.
pin 77: Clock Mode 1 :IN: Clock mode selection.
pin 78: Clock Mode 2 :IN: Clock mode selection.
pin 79: Clock Mode 3 :IN: Clock mode selection.
pin 80: NU :IN: Not in use.
pin 81: C BUS 2 :/O: Data bus for CD IC.
pin 82: NU : O : Not in use.
pin 83: NU :IN: Not in use.
pin 84: NU : O : Not in use.
pin 85: NU : O : Not in use.
pin 86: NU :IN: Not in use.
pin 87: NU :IN: Not in use.
pin 88: NU :IN: Not in use.
pin 89: NU :IN: Not in use.
pin 90: VSS : - : Negative supply voltage.
pin 91: VDD : - : Positive supply voltage.
pin 92: NU :IN: Not in use.
pin 93: VSS : - : Negative supply voltage.
pin 94: CLK OUT : O : Clock pulse output.
pin 95: C BUS 3 :/O: Data bus for CD IC.
pin 96: NU : O : Not in use.
pin 97: SYS CLK :IN: 16.92MHz
pin 98: RESET :IN: Reset signal input.
pin 99: Memo Data 0 :/O: Parallel data input/output for Memory IC.
pin100: Memo Data 1 :/O: Parallel data input/output for Memory IC.
pin101: Memo Data 2 :/O: Parallel data input/output for Memory IC.
pin102: Memo Data 3 :/O: Parallel data input/output for Memory IC.
pin103: Memo Data 4 :/O: Parallel data input/output for Memory IC.
pin104: Memo Data 5 :/O: Parallel data input/output for Memory IC.
pin105: Memo Addrss 16: O : Address output to Memory IC.
pin106: VSS : - : Negative supply voltage.
pin107: Memo Addrss 17: O : Address output to Memory IC.
pin108: Memo Addrss 18: O : Address output to Memory IC.
pin109: Memo Addrss 19: O : Address output to Memory IC.
pin110: Memo Addrss 20: O : Address output to Memory IC.
pin111: VSS : - : Negative supply voltage.
pin112: VDD : - : Positive supply voltage.

051-6700-00 TMS320DA140PGE160 Digital Signal Prosser

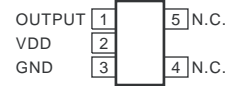
1.Terminal Description

pin 1: VSS : - : Negative supply voltage.
pin 2: Memo Addrss 22: O : Control signal output for Memory IC.
pin 3: VSS : - : Negative supply voltage.
pin 4: VDD : - : Positive supply voltage.
pin 5: Memo Addrss 10: O : Address output to Memory IC.
pin 6: C RESET : O : Reset pulse output to CD IC.
pin 7: Memo Addrss 11: O : Address output to Memory IC.
pin 8: Memo Addrss 12: O : Address output to Memory IC.
pin 9: Memo Addrss 13: O : Address output to Memory IC.
pin 10: Memo Addrss 14: O : Address output to Memory IC.
pin 11: Memo Addrss 15: O : Address output to Memory IC.
pin 12: VDD : - : Positive supply voltage.
pin 13: NU :IN: Not in use.
pin 14: VSS : - : Negative supply voltage.
pin 15: VSS : - : Negative supply voltage.
pin 16: VDD : - : Positive supply voltage.
pin 17: NU :IN: Not in use.
pin 18: NU :IN: Not in use.
pin 19: READY :IN: The ready signal input.
pin 20: PS : O : Control signal output for Memory IC.
pin 21: NU : O : Not in use.
pin 22: NU : O : Not in use.
pin 23: WRITE ENBL : O : The write enable signal output.
pin 24: M STRB : O : Control signal output for Memory IC.
pin 25: NU : O : Not in use.
pin 26: NU : O : Not in use.
pin 27: LD CONT : O : The loading control signal output.
pin 28: NU : O : Not in use.
pin 29: NU : O : Not in use.
pin 30: NU :IN: Not in use.
pin 31: CS :IN: The chip select command input.
pin 32: NU : - : Not in use.
pin 33: VDD : - : Positive supply voltage.
pin 34: VSS : - : Negative supply voltage.
pin 35: V BUS WUP :IN: V BUS WUP input.
pin 36: C BUS CE/TRB :/O: Data bus chip enable signal output to CD IC. Or mechanism sensor signal input.
pin 37: VSS : - : Negative supply voltage.
pin 38: C BUS CK/TRA :/O: Data bus clock pulse output to CD IC. Or mechanism sensor signal input.
pin 39: NU :IN: Not in use.
pin 40: VSS : - : Negative supply voltage.
pin 41: C BCK :IN: Bit clock pulse input from CD IC.
pin 42: NU : O : Not in use.
pin 43: C LRCK :IN: LR clock pulse input from CD IC.
pin 44: NU : O : Not in use.
pin 45: C SD :IN: Serial data input from CD IC.

pin113: Memo Data 6 :/O: Parallel data input/output for Memory IC.
pin114: Memo Data 7 :/O: Parallel data input/output for Memory IC.
pin115: Memo Data 8 :/O: Parallel data input/output for Memory IC.
pin116: Memo Data 9 :/O: Parallel data input/output for Memory IC.
pin117: Memo Data 10 :/O: Parallel data input/output for Memory IC.
pin118: Memo Data 11 :/O: Parallel data input/output for Memory IC.
pin119: Memo Data 12 :/O: Parallel data input/output for Memory IC.
pin120: CN VCC :/IN: Connect to VCC.
pin121: Memo Data 13 :/O: Parallel data input/output for Memory IC.
pin122: Memo Data 14 :/O: Parallel data input/output for Memory IC.
pin123: Memo Data 15 :/O: Parallel data input/output for Memory IC.
pin124: SRQ : O : V BUS SRQ output.
pin125: VDD : - : Positive supply voltage.
pin126: VSS : - : Negative supply voltage.
pin127: NU : IN: Not in use.
pin128: VSS : - : Negative supply voltage.
pin129: NU : IN: Not in use.
pin130: VDD : - : Positive supply voltage.
pin131: Memo Addrss 0: O : Address output to Memory IC.
pin132: Memo Addrss 1: O : Address output to Memory IC.
pin133: Memo Addrss 2: O : Address output to Memory IC.
pin134: Memo Addrss 3: O : Address output to Memory IC.
pin135: SYS POWER : O : System power supply control signal output.

pin136: Memo Addrss 4: O : Address output to Memory IC.
pin137: Memo Addrss 5: O : Address output to Memory IC.
pin138: Memo Addrss 6: O : Address output to Memory IC.
pin139: Memo Addrss 7: O : Address output to Memory IC.
pin140: Memo Addrss 8: O : Address output to Memory IC.
pin141: Memo Addrss 9: O : Address output to Memory IC.
pin142: VDD : - : Positive supply voltage.
pin143: Memo Addrss 21: O : Control signal output for Memory IC.
pin144: VSS : - : Negative supply voltage.

051-5441-08 BD4828G-TR Precision Voltage Detector 2.8V



Terminal description

pin 1: OUTPUT : N channel open drain output, positive logic.
pin 2: VDD : Positive supply voltage.
pin 3: GND : Ground.
pin 4: NC : Not in use.
pin 5: NC : Not in use.

ELECTRICAL PARTS LIST

Main PWB (B1) section

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT 1	092-4000-51	ANT-RECEPT	C 125	166-4711-50	470pF	C 313	163-1063-35	16V 10uF
BL 1	880-2090B	TUNER	C 126	166-4711-50	470pF	C 314	168-4732-78	0.047uF
C 1	168-2232-55	0.022uF	C 127	166-4711-50	470pF	C 315	168-4732-78	0.047uF
C 4	163-1053-65	50V 1uF	C 128	166-4711-50	470pF	C 316	163-2253-65	50V 2.2uF
C 5	168-2732-55	0.027uF	C 129	166-4711-50	470pF	C 317	163-2253-65	50V 2.2uF
C 6	168-2732-55	0.027uF	C 130	166-4711-50	470pF	C 318	168-3322-55	3300pF
C 7	188-4763-37	16V 47uF	C 131	166-4711-50	470pF	C 320	163-1063-35	16V 10uF
C 8	168-2232-55	0.022uF	C 132	166-4711-50	470pF	C 321	163-2253-65	50V 2.2uF
C 9	168-2232-55	0.022uF	C 134	166-2211-50	220pF	C 322	163-2253-65	50V 2.2uF
C 10	168-6822-55	6800pF	C 135	166-2211-50	220pF	C 323	168-3322-55	3300pF
C 11	042-1631-50	10V 100uF	C 136	166-2211-50	220pF	C 324	163-1063-35	16V 10uF
C 12	042-1631-50	10V 100uF	C 137	166-2211-50	220pF	C 325	168-1022-55	1000pF
C 16	168-1042-78	0.1uF	C 201	042-1545-00	16V 2200uF	C 326	168-6832-78	0.068uF
C 18	163-1053-65	50V 1uF	C 202	172-2231-15	0.022uF	C 327	168-6832-78	0.068uF
C 20	163-4763-15	6.3V 47uF	C 203	042-1669-00	16V 100uF	C 328	168-1042-78	0.1uF
C 22	166-1011-50	100pF	C 204	188-2263-37	16V 22uF	C 329	168-1022-55	1000pF
C 23	166-1011-50	100pF	C 205	168-4732-78	0.047uF	C 330	168-1022-55	1000pF
C 24	166-3311-50	330pF	C 210	163-2263-15	6.3V 22uF	C 332	163-1063-35	16V 10uF
C 25	166-1501-50	15pF CH	C 211	163-2263-35	16V 22uF	C 333	163-1063-35	16V 10uF
C 26	166-1501-50	15pF CH	C 216	187-1073-35	16V 100uF	C 334	163-1063-35	16V 10uF
C 28	168-1532-55	0.015uF	C 222	188-4763-37	16V 47uF	C 335	163-1063-35	16V 10uF
C 29	168-2232-55	0.022uF	C 223	168-2232-55	0.022uF	C 337	163-2253-65	50V 2.2uF
C 55	166-2201-50	22pF CH	C 224	172-4731-15	0.047uF	C 338	163-2253-65	50V 2.2uF
C 66	166-2201-50	22pF CH	C 230	042-1631-50	10V 100uF	C 340	163-2263-15	6.3V 22uF
C 67	168-1032-55	0.01uF	C 241	188-1063-37	16V 10uF	C 351	168-1042-78	0.1uF
C 68	168-2232-55	0.022uF	C 243	042-1631-50	10V 100uF	C 353	042-0398-53	16V 3.3uF TAN
C 101	178-2242-78	0.22uF	C 245	168-1042-78	0.1uF	C 354	168-1042-78	0.1uF
C 102	178-2242-78	0.22uF	C 279	188-1073-27	10V 100uF	C 356	168-1042-78	0.1uF
C 103	178-2242-78	0.22uF	C 280	042-0416-60	25V 10uF TAN	C 357	042-0423-97	16V 10uF TAN
C 104	178-2242-78	0.22uF	C 281	042-1452-81	10V 220uF	C 358	042-0423-97	16V 10uF TAN
C 106	042-0560-84	16V 47uF	C 282	042-1631-50	10V 100uF	C 359	168-1042-78	0.1uF
C 107	042-0560-56	50V 3.3uF	C 283	042-1631-50	10V 100uF	C 360	042-0397-50	16V 1uF TAN
C 108	042-0560-63	16V 22uF	C 284	168-2232-55	0.022uF	C 362	168-1042-78	0.1uF
C 109	043-0506-50	0.1uF	C 285	168-1042-78	0.1uF	C 363	166-1011-50	100pF
C 110	043-0506-50	0.1uF	C 286	166-2211-50	220pF	C 364	166-1011-50	100pF
C 111	043-0506-50	0.1uF	C 287	168-1042-78	0.1uF	C 366	168-1022-55	1000pF
C 112	043-0506-50	0.1uF	C 302	163-1063-35	16V 10uF	C 367	168-4732-78	0.047uF
C 113	043-0506-50	0.1uF	C 303	168-1032-55	0.01uF	C 368	168-6822-55	6800pF
C 114	043-0506-50	0.1uF	C 304	168-1032-55	0.01uF	C 370	168-2222-55	2200pF
C 115	043-0506-50	0.1uF	C 306	163-1063-35	16V 10uF	C 371	168-2222-55	2200pF
C 116	043-0506-50	0.1uF	C 307	168-3922-55	3900pF	C 372	168-2222-55	2200pF
C 121	163-1063-35	16V 10uF	C 308	168-3922-55	3900pF	C 373	168-2222-55	2200pF
C 122	163-1063-35	16V 10uF	C 310	163-1063-35	16V 10uF	C 374	163-2253-65	50V 2.2uF
C 123	163-1063-35	16V 10uF	C 311	163-1063-35	16V 10uF	C 375	163-2253-65	50V 2.2uF
C 124	163-1063-35	16V 10uF	C 312	163-1063-35	16V 10uF	C 376	168-1042-78	0.1uF

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 377	163-1063-35	16V 10uF	C 910	166-1011-50	100pF	D 223	001-1310-00	KDS160
C 378	163-2253-65	50V 2.2uF	C 912	168-1022-55	1000pF	D 224	001-0466-91	S5688G
C 379	163-2253-65	50V 2.2uF	C 913	168-4722-55	4700pF	D 225	001-0466-91	S5688G
C 380	163-2253-65	50V 2.2uF	D 101	001-2403-90	MIF60	D 227	001-1310-00	KDS160
C 381	163-1063-35	16V 10uF	D 102	001-2403-90	MIF60	D 229	001-0466-90	S5688B
C 382	178-1052-78	1uF	D 103	001-2403-90	MIF60	D 230	001-0466-90	S5688B
C 383	163-1063-35	16V 10uF	D 104	001-2403-90	MIF60	D 231	001-0466-90	S5688B
C 384	163-1063-35	16V 10uF	D 105	001-2403-90	MIF60	D 241	001-0504-45	HZS9B1L
C 385	178-1052-78	1uF	D 106	001-2403-90	MIF60	D 242	001-0504-50	HZS11A2L
C 386	163-3353-65	50V 3.3uF	D 107	001-2403-90	MIF60	D 280	001-2606-90	MIFS4
C 387	178-3342-78	0.33uF	D 108	001-2403-90	MIF60	D 301	001-0529-34	MA8062L
C 388	178-1052-78	1uF	D 201	001-0592-00	RM4Z	D 401	001-1310-00	KDS160
C 389	163-3363-25	10V 33uF	D 203	001-0504-46	HZS9B2L	D 402	001-1310-00	KDS160
C 390	168-1042-78	0.1uF	D 211	001-1310-00	KDS160	D 403	001-0529-44	MA8082M
C 391	168-1042-78	0.1uF	D 212	001-1310-00	KDS160	D 404	001-1310-00	KDS160
C 392	168-1042-78	0.1uF	D 213	001-1310-00	KDS160	D 405	001-1310-00	KDS160
C 394	163-1063-35	16V 10uF	D 214	001-0466-91	S5688G	D 406	001-1310-00	KDS160
C 395	163-2253-65	50V 2.2uF	D 221	001-0466-90	S5688B	D 603	001-1310-00	KDS160
C 396	163-2253-65	50V 2.2uF	IC 1	051-6201-90	LC72146M	D 610	001-1310-00	KDS160
C 397	168-2222-55	2200pF	IC 101	051-2053-00	LA47508	D 651	001-7062-90	CL150FG
C 398	168-2222-55	2200pF	IC 220	051-3201-90	AN77L06	F 101	060-8023-58	CHIP FUSE
C 399	163-2253-65	50V 2.2uF	IC 230	051-1014-08	TA7291F	FIL 301	060-3110-90	CHIP FUSE
C 401	042-1669-00	16V 100uF	IC 280	051-3605-90	NJM2360A	L 403	010-3105-62	EMI COIL
C 402	166-1011-50	100pF	IC 301	051-5020-90	M61508FP	L 404	010-3105-62	EMI COIL
C 430	163-1063-35	16V 10uF	IC 302	051-3034-90	NJM4558V	L 405	010-3105-62	EMI COIL
C 439	168-2222-55	2200pF	IC 304	051-6702-08	LC89052T	L 601	010-3107-50	2.2uH
C 440	168-2222-55	2200pF	IC 305	051-6703-08	AK4384	L 602	010-3107-50	2.2uH
C 441	168-2222-55	2200pF	IC 306	051-5030-90	M61523FP	L 603	010-3107-50	2.2uH
C 442	168-2222-55	2200pF	IC 308	051-5835-90	SHAKIT	L 604	010-3107-50	2.2uH
C 443	168-2222-55	2200pF	IC 309	051-3263-90	NJU7200U3	P 500	074-1106-12	12P
C 444	168-2222-55	2200pF	IC 401	051-5834-90	uPD5701-028	P 501	074-1106-12	12P
C 445	168-1042-78	0.1uF	IC 406	051-3034-90	NJM4558V	Q 6	125-3004-90	KTA1504S
C 446	168-1042-78	0.1uF	IC 602	051-6600-58	HA12187FP	Q 7	125-3004-90	KTA1504S
C 447	168-1042-78	0.1uF	IC 604	052-3934-00	M30622MWP-128GP	Q 8	125-2199-93	KRC103S
C 448	168-1042-78	0.1uF	IC 605	051-5437-08	S-80821ANMP	Q 201	102-3420-00	2SC3420
C 449	168-1042-78	0.1uF	IC 606	051-0869-55	NJM2103M	Q 202	108-0241-50	2SK241
C 450	163-2273-25	10V 220uF	J 2	074-1138-70	20P	Q 210	125-3007-90	KTA1298
C 451	163-1073-15	6.3V 100uF	J 201	074-1214-00	16P	Q 211	125-2199-96	KRC106S
C 456	163-1063-35	16V 10uF	J 601	074-1194-00	13P	Q 212	125-3004-90	KTA1504S
C 457	163-1063-35	16V 10uF	J 602	074-1198-68	18P	Q 213	192-2712-00	2SC2712
C 605	042-1505-80	25V 1uF	J 604	076-0313-02	2P	Q 214	125-3007-90	KTA1298
C 606	168-4732-78	0.047uF	L 1	010-2275-53	220uH	Q 222	125-3004-90	KTA1504S
C 613	042-0576-00	5.5V 0.1F	L 2	010-2285-56	BLM21B222S	Q 223	125-2199-93	KRC103S
C 614	168-1032-55	0.01uF	L 3	010-2285-56	BLM21B222S	Q 224	101-0941-00	2SB941
C 615	042-1577-00	6.3V 100uF	L 52	010-4046-00	30uF	Q 225	125-3004-90	KTA1504S
C 616	163-1063-35	16V 10uF	L 101	010-8026-00	CHOKE	Q 226	192-2712-00	2SC2712
C 617	168-1022-55	1000pF	L 202	010-3406-54	2.2uH	Q 227	125-4014-90	KTC2020D
C 619	168-4732-78	0.047uF	L 211	010-3407-59	5.6uH	Q 228	125-2199-93	KRC103S
C 620	178-2242-78	0.22uF	L 280	010-3406-66	22uH	Q 229	190-1416-00	2SA1416
C 630	166-1011-50	100pF	L 281	010-3406-66	22uH	Q 230	125-3007-90	KTA1298
C 631	166-1011-50	100pF	L 282	010-6003-03	270uH	Q 231	190-1416-00	2SA1416
C 632	168-1032-55	0.01uF	L 283	010-2285-56	BLM21B222S	Q 232	125-0199-92	KRA102S
C 633	168-1032-55	0.01uF	L 301	010-2285-58	BLM21A102FPB	Q 233	125-2199-93	KRC103S
C 635	166-1011-50	100pF	L 302	010-2285-58	BLM21A102FPB	Q 235	125-2199-93	KRC103S
C 636	166-1011-50	100pF	L 303	010-2285-58	BLM21A102FPB	Q 236	125-3004-90	KTA1504S
C 637	166-1011-50	100pF	L 304	010-2285-58	BLM21A102FPB	Q 240	125-2199-93	KRC103S
C 638	166-1011-50	100pF	L 305	010-2285-58	BLM21A102FPB	Q 242	125-2199-93	KRC103S
C 640	166-1011-50	100pF	L 308	010-2285-58	BLM21A102FPB	Q 244	125-0199-92	KRA102S
C 641	166-1011-50	100pF	L 309	010-2285-58	BLM21A102FPB	Q 245	125-2199-96	KRC106S
C 642	166-1011-50	100pF	L 310	010-2285-58	BLM21A102FPB	Q 248	125-2199-93	KRC103S
C 643	166-1011-50	100pF	L 311	010-2285-58	BLM21A102FPB	Q 250	125-4015-90	KTC2026
C 645	166-1011-50	100pF	L 312	010-2285-58	BLM21A102FPB	Q 251	125-2199-93	KRC103S
C 691	163-2263-15	6.3V 22uF	L 313	010-2285-58	BLM21A102FPB	Q 252	125-2199-96	KRC106S
C 692	163-2263-15	6.3V 22uF	L 314	010-2285-58	BLM21A102FPB	Q 301	125-2199-93	KRC103S
C 693	166-1007-50	10pF	L 321	010-3406-66	22uH	Q 401	125-0199-92	KRA102S
C 694	166-1007-50	10pF	L 322	010-3406-66	22uH	Q 414	125-2199-96	KRC106S
C 695	166-4711-50	470pF	L 331	010-3105-62	EMI COIL	Q 415	192-2712-00	2SC2712
C 696	166-4711-50	470pF	L 332	010-3105-62	EMI COIL	Q 416	125-0199-96	KRA106S
C 904	168-1032-55	0.01uF	L 401	010-3406-66	22uH	Q 424	125-2199-96	KRC106S
C 905	168-1032-55	0.01uF	L 402	010-3105-62	EMI COIL	Q 425	125-2199-96	KRC106S
C 907	168-1032-55	0.01uF	D 222	001-0466-90	S5688B	Q 426	125-0199-96	KRA106S

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
Q 602	125-2199-93	KRC103S	R 244	116-1811-15	1/4WS 180ohm	R 401	119-4721-15	1/16W 4.7Kohm
Q 603	125-3004-90	KTA2504S	R 247	119-1011-15	1/16W 100ohm	R 408	119-3931-15	1/16W 39Kohm
Q 617	125-2199-93	KRC103S	R 248	119-1031-15	1/16W 10Kohm	R 409	119-1021-15	1/16W 1Kohm
Q 697	125-4012-90	KTD1304	R 249	116-1221-15	1/4WS 1.2Kohm	R 410	119-1021-15	1/16W 1Kohm
Q 698	125-4012-90	KTD1304	R 250	119-1031-15	1/16W 10Kohm	R 415	119-1021-15	1/16W 1Kohm
R 1	119-1021-15	1/16W 1Kohm	R 251	116-1221-15	1/4WS 1.2Kohm	R 416	119-1021-15	1/16W 1Kohm
R 7	119-1231-15	1/16W 12Kohm	R 252	116-1521-15	1/4WS 1.5Kohm	R 417	119-1021-15	1/16W 1Kohm
R 8	119-1031-15	1/16W 10Kohm	R 260	119-2221-15	1/16W 2.2Kohm	R 418	119-1021-15	1/16W 1Kohm
R 9	119-4741-15	1/16W 470Kohm	R 261	119-1031-15	1/16W 10Kohm	R 419	119-4721-15	1/16W 4.7Kohm
R 10	119-2221-15	1/16W 2.2Kohm	R 281	119-2291-15	1/16W 2.2ohm	R 474	119-0000-05	JW
R 14	119-5631-15	1/16W 56Kohm	R 282	119-2291-15	1/16W 2.2ohm	R 477	119-0000-05	JW
R 15	119-1031-15	1/16W 10Kohm	R 283	119-2721-15	1/16W 2.7Kohm	R 478	119-1041-15	1/16W 100Kohm
R 16	119-2221-15	1/16W 2.2Kohm	R 284	119-1531-15	1/16W 15Kohm	R 479	119-1241-15	1/16W 120Kohm
R 18	119-1031-15	1/16W 10Kohm	R 285	116-3911-15	1/4WS 390ohm	R 480	119-1021-15	1/16W 1Kohm
R 19	119-1031-15	1/16W 10Kohm	R 301	119-4711-15	1/16W 470ohm	R 481	119-1221-15	1/16W 1.2Kohm
R 21	119-1021-15	1/16W 1Kohm	R 302	119-4711-15	1/16W 470ohm	R 483	119-8221-15	1/16W 8.2Kohm
R 24	119-1521-15	1/16W 1.5Kohm	R 304	119-4731-15	1/16W 47Kohm	R 484	119-1021-15	1/16W 1Kohm
R 25	119-1521-15	1/16W 1.5Kohm	R 316	119-1021-15	1/16W 1Kohm	R 485	119-2231-15	1/16W 22Kohm
R 26	119-1031-15	1/16W 10Kohm	R 317	119-1021-15	1/16W 1Kohm	R 486	119-1021-15	1/16W 1Kohm
R 27	119-1021-15	1/16W 1Kohm	R 319	119-4721-15	1/16W 4.7Kohm	R 493	119-8221-15	1/16W 8.2Kohm
R 28	119-1021-15	1/16W 1Kohm	R 321	119-4721-15	1/16W 4.7Kohm	R 495	119-1021-15	1/16W 1Kohm
R 29	119-1021-15	1/16W 1Kohm	R 325	032-0140-64	1/10W 43Kohm	R 603	116-6801-15	1/4WS 68ohm
R 30	119-1041-15	1/16W 100Kohm	R 326	032-0140-64	1/10W 43Kohm	R 604	119-3321-15	1/16W 3.3Kohm
R 83	119-2221-15	1/16W 2.2Kohm	R 327	032-0140-64	1/10W 43Kohm	R 606	119-1041-15	1/16W 100Kohm
R 84	119-0000-05	JW	R 328	032-0140-64	1/10W 43Kohm	R 607	119-2231-15	1/16W 22Kohm
R 101	119-1231-15	1/16W 12Kohm	R 329	032-0140-89	1/10W 47Kohm	R 608	119-1031-15	1/16W 10Kohm
R 102	119-1031-15	1/16W 10Kohm	R 330	032-0140-89	1/10W 47Kohm	R 609	119-4731-15	1/16W 47Kohm
R 103	117-0000-05	JW	R 331	119-4721-15	1/16W 4.7Kohm	R 610	119-4721-15	1/16W 4.7Kohm
R 106	119-0000-05	JW	R 335	119-1031-15	1/16W 10Kohm	R 611	119-1031-15	1/16W 10Kohm
R 109	119-2291-15	1/16W 2.2ohm	R 338	119-4731-15	1/16W 47Kohm	R 612	119-0000-05	JW
R 110	119-2291-15	1/16W 2.2ohm	R 344	032-0140-89	1/10W 47Kohm	R 616	119-1021-15	1/16W 1Kohm
R 111	119-2291-15	1/16W 2.2ohm	R 345	119-1041-15	1/16W 100Kohm	R 617	119-1021-15	1/16W 1Kohm
R 112	119-2291-15	1/16W 2.2ohm	R 346	119-1041-15	1/16W 100Kohm	R 629	119-1831-15	1/16W 18Kohm
R 113	119-2291-15	1/16W 2.2ohm	R 347	032-0140-89	1/10W 47Kohm	R 630	119-1831-15	1/16W 18Kohm
R 114	119-2291-15	1/16W 2.2ohm	R 350	119-2711-15	1/16W 270ohm	R 637	119-1041-15	1/16W 100Kohm
R 115	119-2291-15	1/16W 2.2ohm	R 351	119-2711-15	1/16W 270ohm	R 638	119-4731-15	1/16W 47Kohm
R 116	119-2291-15	1/16W 2.2ohm	R 352	119-2711-15	1/16W 270ohm	R 639	119-4721-15	1/16W 4.7Kohm
R 121	119-4721-15	1/16W 4.7Kohm	R 353	119-4721-15	1/16W 4.7Kohm	R 640	119-3331-15	1/16W 33Kohm
R 122	119-4721-15	1/16W 4.7Kohm	R 354	119-4721-15	1/16W 4.7Kohm	R 641	119-1831-15	1/16W 18Kohm
R 123	119-4721-15	1/16W 4.7Kohm	R 359	119-2711-15	1/16W 270ohm	R 642	119-1031-15	1/16W 10Kohm
R 124	119-4721-15	1/16W 4.7Kohm	R 360	119-2711-15	1/16W 270ohm	R 643	119-5621-15	1/16W 5.6Kohm
R 209	119-1021-15	1/16W 1Kohm	R 361	119-2711-15	1/16W 270ohm	R 644	119-1541-15	1/16W 150Kohm
R 210	119-1031-15	1/16W 10Kohm	R 362	119-4701-15	1/16W 47ohm	R 645	119-8221-15	1/16W 8.2Kohm
R 211	119-4731-15	1/16W 47Kohm	R 363	032-0140-62	1/10W 1Kohm (F)	R 646	119-4321-15	1/16W 4.3Kohm
R 212	119-1531-15	1/16W 15Kohm	R 364	032-0140-62	1/10W 1Kohm (F)	R 651	119-1011-15	1/16W 100ohm
R 213	119-1031-15	1/16W 10Kohm	R 365	032-0140-62	1/10W 1Kohm (F)	R 652	119-1511-15	1/16W 150ohm
R 214	119-4731-15	1/16W 47Kohm	R 366	032-0140-62	1/10W 1Kohm (F)	R 653	119-1511-15	1/16W 150ohm
R 215	119-2221-15	1/16W 2.2Kohm	R 367	119-1031-15	1/16W 10Kohm	R 654	119-1511-15	1/16W 150ohm
R 216	119-2221-15	1/16W 2.2Kohm	R 368	119-1011-15	1/16W 100ohm	R 655	119-1011-15	1/16W 100ohm
R 219	119-1031-15	1/16W 10Kohm	R 369	119-1511-15	1/16W 150ohm	R 656	119-0000-05	JW
R 220	119-1031-15	1/16W 10Kohm	R 370	119-1021-15	1/16W 1Kohm	R 657	119-1511-15	1/16W 150ohm
R 221	119-3921-15	1/16W 3.9Kohm	R 371	119-1021-15	1/16W 1Kohm	R 658	119-1521-15	1/16W 1.5Kohm
R 222	119-1801-15	1/16W 18ohm	R 372	119-1021-15	1/16W 1Kohm	R 659	119-1011-15	1/16W 100ohm
R 223	119-1031-15	1/16W 10Kohm	R 373	119-1021-15	1/16W 1Kohm	R 660	119-4721-15	1/16W 4.7Kohm
R 224	116-1591-15	1/4WS 1.5ohm	R 374	119-1541-15	1/16W 150Kohm	R 661	119-4721-15	1/16W 4.7Kohm
R 225	116-1591-15	1/4WS 1.5ohm	R 375	119-1011-15	1/16W 100ohm	R 666	119-0000-05	JW
R 226	119-4731-15	1/16W 47Kohm	R 376	119-4741-15	1/16W 470Kohm	R 667	119-0000-05	JW
R 227	119-3321-15	1/16W 3.3Kohm	R 377	119-1041-15	1/16W 100Kohm	R 668	119-0000-05	JW
R 228	119-3321-15	1/16W 3.3Kohm	R 378	119-3341-15	1/16W 330Kohm	R 671	119-4731-15	1/16W 47Kohm
R 229	116-1591-15	1/4WS 1.5ohm	R 379	119-2741-15	1/16W 270Kohm	R 674	119-2711-15	1/16W 270ohm
R 230	119-2231-15	1/16W 22Kohm	R 380	119-1041-15	1/16W 100Kohm	R 677	119-1031-15	1/16W 10Kohm
R 231	116-1591-15	1/4WS 1.5ohm	R 381	119-1831-15	1/16W 18Kohm	R 678	119-1031-15	1/16W 10Kohm
R 233	119-1031-15	1/16W 10Kohm	R 385	119-1031-15	1/16W 10Kohm	R 680	119-0000-05	JW
R 234	119-5611-15	1/16W 560ohm	R 386	119-1031-15	1/16W 10Kohm	R 681	119-0000-05	JW
R 235	117-0000-05	JW	R 387	119-1031-15	1/16W 10Kohm	R 682	119-0000-05	JW
R 236	119-1031-15	1/16W 10Kohm	R 388	119-4731-15	1/16W 47Kohm	R 683	119-0000-05	JW
R 238	119-1031-15	1/16W 10Kohm	R 389	119-4721-15	1/16W 4.7Kohm	R 685	119-0000-05	JW(PE-2619B-A)
R 239	119-1221-15	1/16W 1.2Kohm	R 390	119-1021-15	1/16W 1Kohm	R 687	119-0000-05	JW(PE-2619K-A/B)
R 240	116-4711-15	1/4WS 470ohm	R 391	119-1021-15	1/16W 1Kohm	R 688	119-0000-05	JW
R 242	116-4711-15	1/4WS 470ohm	R 392	119-1021-15	1/16W 1Kohm	R 690	119-4721-15	1/16W 4.7Kohm
R 243	119-1031-15	1/16W 10Kohm	R 393	119-1021-15	1/16W 1Kohm	R 691	119-4721-15	1/16W 4.7Kohm

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R 692	119-0000-05	JW	R 699	119-2231-15	1/16W 22Kohm	SUP 51	060-0122-91	DSP-141N-S00B
R 694	119-0000-05	JW	R 905	119-0000-05	JW	X 1	061-9013-00	7.2MHZ
R 695	119-1031-15	1/16W 10Kohm	R 907	119-6821-15	1/16W 6.8Kohm	X 601	060-1505-50	10MHZ
R 696	119-2231-15	1/16W 22Kohm	S 601	013-6100-00	SWITCH	PWB	039-2460-00	MAIN(WITHOUT COMPONENT)
R 697	119-3311-15	1/16W 33ohm	S 602	013-7106-00	TKR00120670M			
R 698	119-3311-15	1/16W 33ohm	S 603	013-7206-50	SPPB530701			

Sub PWB(B2) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 500	042-0397-54	10V 2.2uF	P 501	076-0659-12	12P	R 530	119-1231-15	1/16W 12Kohm
C 505	042-0397-54	10V 2.2uF	Q 501	193-1306-00	2SD1306	R 531	119-2231-15	1/16W 22Kohm
C 507	042-0397-54	10V 2.2uF	Q 502	193-1306-00	2SD1306	R 532	119-2231-15	1/16W 22Kohm
C 508	042-0397-54	10V 2.2uF	Q 503	193-1306-00	2SD1306	R 533	119-2231-15	1/16W 22Kohm
C 509	042-0416-56	10V 22uF	Q 504	193-1306-00	2SD1306	R 534	119-2231-15	1/16W 22Kohm
C 510	042-0416-56	10V 22uF	Q 505	193-1306-00	2SD1306	R 535	119-2231-15	1/16W 22Kohm
C 511	042-0416-56	10V 22uF	Q 506	193-1306-00	2SD1306	R 536	119-2231-15	1/16W 22Kohm
C 512	042-0416-56	10V 22uF	R 511	119-1231-15	1/16W 12Kohm	R 537	119-3311-15	1/16W 33ohm
C 513	042-0416-56	10V 22uF	R 512	119-1231-15	1/16W 12Kohm	R 538	119-3311-15	1/16W 33ohm
C 515	042-0416-56	10V 22uF	R 513	119-1031-15	1/16W 10Kohm	R 539	119-3311-15	1/16W 33ohm
C 530	042-0397-54	10V 2.2uF	R 514	119-1031-15	1/16W 10Kohm	R 540	119-3311-15	1/16W 33ohm
C 533	166-2201-50	22pF	R 519	119-1041-15	1/16W 100Kohm	R 541	119-3311-15	1/16W 33ohm
C 534	166-2201-50	22pF	R 520	119-1041-15	1/16W 100Kohm	R 542	119-3311-15	1/16W 33ohm
C 535	166-2201-50	22pF	R 521	119-1041-15	1/16W 100Kohm	R 543	119-1021-15	1/16W 1Kohm
C 536	166-2201-50	22pF	R 522	119-1041-15	1/16W 100Kohm	R 544	119-1021-15	1/16W 1Kohm
C 537	166-2201-50	22pF	R 523	119-1231-15	1/16W 12Kohm	R 545	119-1021-15	1/16W 1Kohm
C 538	166-2201-50	22pF	R 524	119-1031-15	1/16W 10Kohm	R 587	119-1041-15	1/16W 100Kohm
C 541	042-0397-54	10V 2.2uF	R 525	119-1031-15	1/16W 10Kohm	R 588	119-1041-15	1/16W 100Kohm
IC 501	051-3026-90	NJM4580V	R 526	119-1231-15	1/16W 12Kohm	R 596	119-1021-15	1/16W 1Kohm
IC 502	051-3026-90	NJM4580V	R 527	119-1031-15	1/16W 10Kohm	PWB	039-2306-00	PWB(WITHOUT COMPONENT)
IC 503	051-3026-90	NJM4580V	R 528	119-1031-15	1/16W 10Kohm			
P 500	076-0659-12	12P	R 529	119-1231-15	1/16W 12Kohm			

Switch PWB(B3) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 701	168-1042-78	0.1uF	Q 701	125-3004-90	KTA1504S	R 737	119-2211-15	1/16W 220ohm
C 705	042-0423-97	16V 10ohm TAN	Q 702	192-2712-51	2SC2712GL	R 738	119-2211-15	1/16W 220ohm
C 706	168-1042-78	0.1uF	Q 705	192-2712-00	TRANSISTOR	R 739	119-2711-15	1/16W 270ohm
C 707	042-0423-97	16V 10ohm TAN	Q 706	192-2712-00	TRANSISTOR	R 740	119-2711-15	1/16W 270ohm
C 708	042-0671-00	16V 4.7ohm TAN	Q 707	192-2712-00	TRANSISTOR	R 741	119-1031-15	1/16W 10Kohm
C 710	168-1042-78	0.1uF	Q 708	125-2199-93	KRC103S	R 742	119-2221-15	1/16W 2.2Kohm
C 711	042-0671-00	16V 4.7ohm TAN	Q 709	125-3007-90	KTA1298	R 743	119-1031-15	1/16W 10Kohm
C 718	168-1022-55	50V 1000pF	Q 710	125-2017-96	RN1426	R 744	119-2211-15	1/16W 2.2Kohm
C 719	168-1022-55	50V 1000pF	Q 711	125-2017-96	RN1426	R 748	119-1011-15	1/16W 100ohm
C 720	168-1022-55	50V 1000pF	Q 712	125-2017-96	RN1426	R 749	119-1011-15	1/16W 100ohm
C 721	042-0398-53	16V 3.3ohm TAN	Q 713	125-2017-96	RN1426	R 750	032-0140-00	1/10W 56Kohm (F)
C 722	042-0398-53	16V 3.3ohm TAN	Q 714	125-2017-96	RN1426	R 751	032-0140-53	1/10W 2.2Kohm (F)
C 723	042-0398-53	16V 3.3ohm TAN	Q 715	125-2017-96	RN1426	R 752	032-0140-73	1/10W 820ohm (F)
C 725	166-1011-50	50V 100pF	Q 716	125-3007-90	KTA1298	R 753	119-4731-15	1/16W 47Kohm
C 726	166-1011-50	50V 100pF	Q 717	125-2199-93	KRC103S	R 754	119-4731-15	1/16W 47Kohm
C 728	042-0671-00	16V 4.7ohm TAN	R 714	119-4711-15	1/16W 470ohm	R 760	119-3921-15	1/16W 3.9Kohm
D 701	001-7072-91	FRGB1304B	R 715	119-2711-15	1/16W 270ohm	R 761	119-1041-15	1/16W 100Kohm
D 702	001-7072-91	FRGB1304B	R 716	119-2711-15	1/16W 270ohm	R 762	119-1011-15	1/16W 100ohm
D 703	001-7072-91	FRGB1304B	R 717	119-4711-15	1/16W 470ohm	R 763	119-1011-15	1/16W 100ohm
D 704	001-7072-91	FRGB1304B	R 718	119-2711-15	1/16W 270ohm	R 764	119-1011-15	1/16W 100ohm
D 705	001-7072-91	FRGB1304B	R 719	119-2711-15	1/16W 270ohm	R 771	119-1021-15	1/16W 1Kohm
D 706	001-0529-32	MA8056M	R 720	119-4711-15	1/16W 470ohm	R 772	119-1021-15	1/16W 1Kohm
D 709	001-0529-32	MA8056M	R 721	119-2711-15	1/16W 270ohm	R 773	119-1021-15	1/16W 1Kohm
D 710	001-0529-32	MA8056M	R 722	119-2711-15	1/16W 270ohm	R 774	119-1041-15	1/16W 100Kohm
D 711	001-0529-32	MA8056M	R 723	119-2211-15	1/16W 220ohm	R 775	119-1041-15	1/16W 100Kohm
D 712	001-0529-32	MA8056M	R 724	119-1811-15	1/16W 180ohm	R 776	119-1041-15	1/16W 100Kohm
D 713	001-0529-32	MA8056M	R 725	119-1811-15	1/16W 180ohm	R 780	119-3301-15	1/16W 33ohm
D 714	001-0529-32	MA8056M	R 726	119-2211-15	1/16W 220ohm	R 781	119-3301-15	1/16W 33ohm
D 715	001-0529-32	MA8056M	R 727	119-1811-15	1/16W 180ohm	R 782	119-3301-15	1/16W 33ohm
D 716	001-0529-32	MA8056M	R 728	119-1811-15	1/16W 180ohm	R 783	119-3301-15	1/16W 33ohm
D 717	001-0529-32	MA8056M	R 729	119-3911-15	1/16W 390ohm	R 784	119-0000-05	JW
D 718	001-0529-32	MA8056M	R 730	119-3911-15	1/16W 390ohm	R 786	002-0315-01	680ohm
D 719	001-0529-32	MA8056M	R 731	119-5111-15	1/16W 510ohm	S 701	013-6507-50	ILLUMI SWITCH
IC 701	051-6057-10	ML9090-02	R 732	119-5111-15	1/16W 510ohm	S 702	013-6507-50	ILLUMI SWITCH
IC 704	051-6636-18	M62334FP	R 733	119-5611-15	1/16W 560ohm	S 703	013-6507-50	ILLUMI SWITCH
IR 701	060-4017-90	RS-671	R 734	119-5611-15	1/16W 560ohm	S 704	013-6507-50	ILLUMI SWITCH
LCD 701	379-1298-81	INDICATOR(LCD)	R 735	119-2211-15	1/16W 220ohm	S 705	013-6507-50	ILLUMI SWITCH
P 701	076-0647-00	DCP CONECTOR	R 736	119-2211-15	1/16W 220ohm	S 706	013-6507-50	ILLUMI SWITCH

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
S 707	013-6507-50	ILLUMI SWITCH	S 713	013-6507-50	ILLUMI SWITCH	S 721	013-6507-50	ILLUMI SWITCH
S 708	013-6507-50	ILLUMI SWITCH	S 714	013-6507-50	ILLUMI SWITCH	S 722	013-6507-50	ILLUMI SWITCH
S 709	013-6507-50	ILLUMI SWITCH	S 715	013-6507-50	ILLUMI SWITCH	S 723	016-9900-85	ENCODER-SW
S 710	013-6507-50	ILLUMI SWITCH	S 718	013-6507-50	ILLUMI SWITCH	PWB	039-2440-00	PWB(WITHOUT COMPONENT)
S 711	013-6507-50	ILLUMI SWITCH	S 719	013-6507-50	ILLUMI SWITCH			
S 712	013-6507-50	ILLUMI SWITCH	S 720	013-6507-50	ILLUMI SWITCH			

CD PWB (B4) section: 929-0300-82

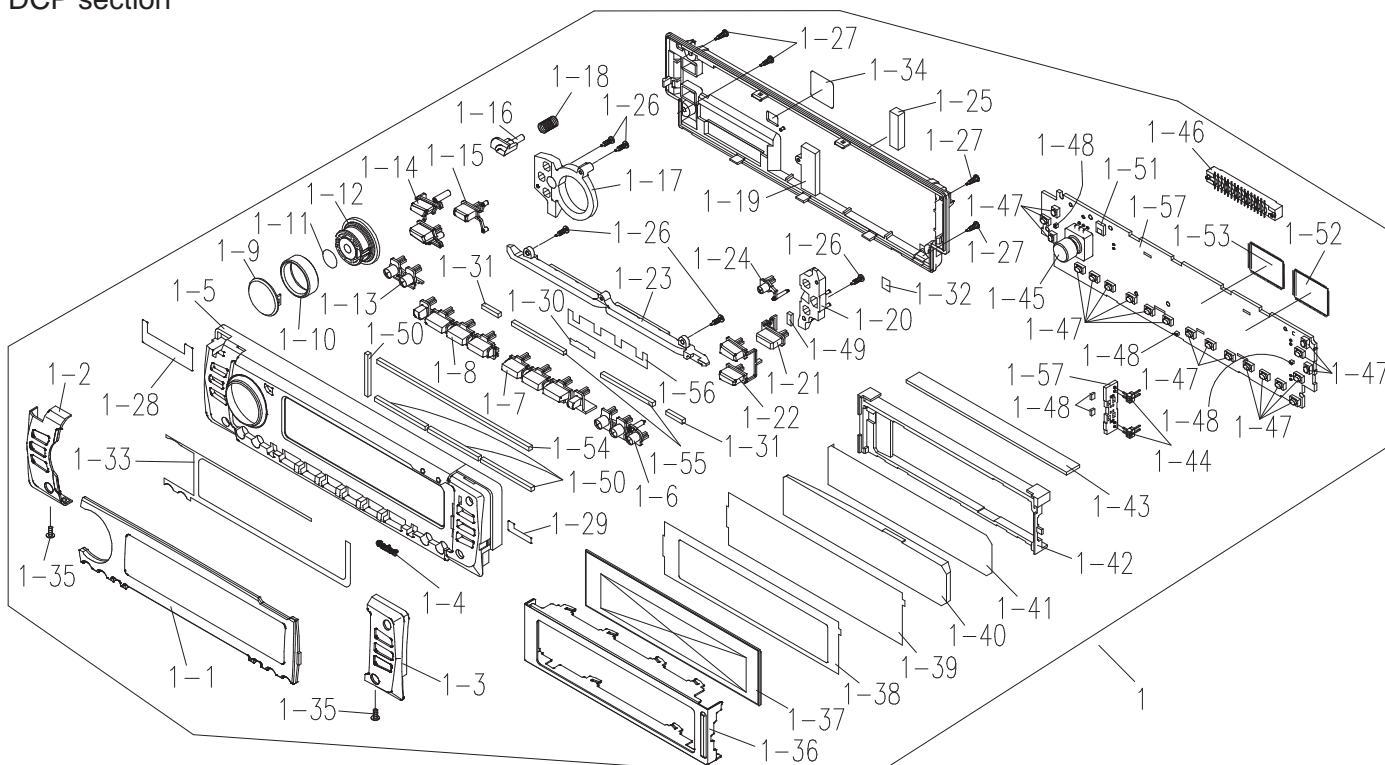
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1	168-1042-78	16V 0.1uF	C 132	168-1042-78	16V 0.1uF	R 4	033-1031-15	1/16W 10k ohm
C 4	168-1042-78	16V 0.1uF	C 133	046-1532-78	0.015uF	R 5	033-2231-15	1/16W 22k ohm
C 5	046-1032-78	0.01uF	C 134	168-1042-78	16V 0.1uF	R 6	033-3911-15	1/16W 390 ohm
C 6	168-1042-78	16V 0.1uF	C 135	045-6801-50	50V 68pF	R 7	033-4731-15	1/16W 47k ohm
C 7	178-1052-78	1uF	C 136	178-1052-78	1uF	R 8	033-1051-15	1/16W 1M ohm
C 8	168-1042-78	16V 0.1uF	C 138	168-1042-78	16V 0.1uF	R 9	033-3311-15	1/16W 330 ohm
C 9	046-4722-58	4700pF	C 139	168-1042-78	16V 0.1uF	R 11	033-1011-15	1/16W 100 ohm
C 10	045-1011-50	100pF	C 140	046-6812-58	680pF	R 12	033-4731-15	1/16W 47k ohm
C 11	168-1042-78	16V 0.1uF	C 142	178-1052-78	1uF	R 13	033-1041-15	1/16W 100k ohm
C 13	168-1042-78	16V 0.1uF	C 144	042-0560-85	6.3V 100uF	R 14	033-4721-15	1/16W 4.7k ohm
C 16	168-1042-78	16V 0.1uF	C 145	168-1042-78	16V 0.1uF	R 15	033-4721-15	1/16W 4.7k ohm
C 17	046-1032-78	0.01uF	C 146	168-1042-78	16V 0.1uF	R 19	033-4731-15	1/16W 47k ohm
C 18	178-1052-78	1uF	C 147	178-1052-78	1uF	R 20	033-4731-15	1/16W 47k ohm
C 19	046-1032-78	0.01uF	C 148	042-0595-53	4V220uF	R 23	033-3311-15	1/16W 330 ohm
C 20	168-1042-78	16V 0.1uF	C 149	163-1073-35	16V100uF	R 24	033-4731-15	1/16W 47k ohm
C 21	042-0595-53	4V220uF	C 150	168-1042-78	16V 0.1uF	R 28	033-6841-15	1/16W 680k ohm
C 22	168-1042-78	16V 0.1uF	C 151	178-1052-78	1uF	R 29	033-6841-15	1/16W 680k ohm
C 23	168-1042-78	16V 0.1uF	C 200	178-1052-78	1uF	R 30	033-1041-15	1/16W 100k ohm
C 24	046-1032-78	0.01uF	CCT 1	050-0145-54	1/16W 47kohm x4	R 31	033-1031-15	1/16W 10k ohm
C 25	045-8097-50	8pF	CCT 2	050-0145-58	2.2kohm x 4	R 32	033-1031-15	1/16W 10k ohm
C 26	045-8097-50	8pF	CCT 3	050-0140-63	1/32W 47kohm x4J	R 33	033-1031-15	1/16W 10k ohm
C 27	042-0416-52	10V10uF TAN	CCT101	050-0140-68	1/32W 3.3kohm x4J	R 34	033-6831-15	1/16W 68k ohm
C 28	046-1032-78	0.01uF	D 1	001-2610-90	SQT343	R 35	033-6831-15	1/16W 68k ohm
C 29	168-1042-78	16V 0.1uF	D 2	001-2610-90	SQT343	R 36	033-0000-05	JW
C 30	045-1201-50	12pF	D 3	001-2610-90	SQT343	R 43	033-4731-15	1/16W 47k ohm
C 31	168-1042-78	16V 0.1uF	D 4	001-2610-90	SQT343	R 44	033-4731-15	1/16W 47k ohm
C 32	046-1032-78	0.01uF	D 5	001-2610-90	SQT343	R 45	033-4731-15	1/16W 47k ohm
C 33	046-1032-78	0.01uF	D 6	001-2610-90	SQT343	R 101	033-1231-15	1/16W 12k ohm
C 34	046-1032-78	0.01uF	D 7	001-2610-90	SQT343	R 102	033-3321-15	1/16W 3.3k ohm
C 35	046-1022-58	1000pF	D 101	001-0367-91	1SS226	R 103	033-3331-15	1/16W 33k ohm
C 102	163-1073-35	16V100uF	IC 1	051-7518-18	SN74LVC139APWR	R 104	033-4731-15	1/16W 47k ohm
C 103	046-4722-58	4700pF	IC 2	051-3315-90	TPS76316DBVR	R 105	033-4731-15	1/16W 47k ohm
C 104	046-1032-78	0.01uF	IC 3	051-7239-38	SN74AHCT08PWR	R 106	033-2211-15	1/16W 220 ohm
C 105	168-1042-78	16V 0.1uF	IC 4	051-7518-18	SN74LVC139APWR	R 107	033-2211-15	1/16W 220 ohm
C 106	168-1042-78	16V 0.1uF	IC 5	051-5441-08	BD4828G-TR	R 108	033-1021-15	1/16W 1k ohm
C 107	042-0416-52	10V10uF TAN	IC 6	051-6700-00	TMS320DA140	R 109	033-1021-15	1/16W 1k ohm
C 108	168-1042-78	16V 0.1uF	IC 7	051-7203-48	SN74LV74APW	R 110	033-4731-15	1/16W 47k ohm
C 109	168-1042-78	16V 0.1uF	IC 9	051-9330-00	K4S641632F-TC60	R 115	033-0000-05	JW
C 110	168-1042-78	16V 0.1uF	IC 10	052-5055-11	MBM29DL800B-A90PFTN	R 116	033-5621-15	1/16W 5.6k ohm
C 111	168-1042-78	16V 0.1uF	IC 11	051-6919-08	NJU6391PE	R 117	033-4731-15	1/16W 47k ohm
C 112	168-4732-78	0.047uF	IC 12	051-7221-58	SN74AHC1G04HDCR	R 118	033-3341-15	1/16W 330k ohm
C 113	168-4732-78	0.047uF	IC 13	051-7280-38	TC7SU04FU-TE85L	R 119	033-2231-15	1/16W 22k ohm
C 114	168-1042-78	16V 0.1uF	IC 14	051-7280-38	TC7SU04FU-TE85L	R 120	033-2231-15	1/16W 22k ohm
C 115	045-4701-50	47pF	IC 101	051-6069-08	FAN8047G3	R 121	117-1001-15	1/10W 10 ohm
C 116	046-4712-58	470pF	IC 102	051-6399-00	TC94A15F	R 122	033-2211-15	1/16W 220 ohm
C 117	046-4712-58	470pF	J 1	074-1138-65	15P	R 123	117-6811-15	1/10W 680 ohm
C 118	168-1042-78	16V 0.1uF	J 2	074-1138-60	10P	R 124	032-0162-50	0.51 ohm
C 119	168-1042-78	16V 0.1uF	J 3	074-1237-70	20P	R 126	033-1021-15	1/16W 1k ohm
C 120	046-1532-78	0.015uF	Q 1	131-1188-50	2SB1188PQR	R 127	033-1021-15	1/16W 1k ohm
C 121	046-6822-58	6800pF	Q 2	125-2004-92	RN1402	R 130	033-1051-15	1/16W 1M ohm
C 122	168-1042-78	16V 0.1uF	Q 101	131-1188-50	2SB1188PQR	TM 101	073-0768-90	TERMINAL
C 123	046-1032-78	0.01uF	Q 102	131-1188-50	2SB1188PQR	X 1	061-3534-90	16.92MHz
C 126	046-3332-78	0.033uF	R 1	033-4721-15	1/16W 4.7k ohm	PWB	039-2429-20	PWB(WITHOUT COMPONENT)
C 127	046-4722-58	4700pF	R 2	033-1041-15	1/16W 100k ohm			
C 130	168-1042-78	16V 0.1uF	R 3	033-1041-15	1/16W 100k ohm			
C 131	046-1522-58	1500pF						

LED PWB (B5) section: 929-0300-82

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D 11	001-7058-90	AN1105W-RR	Q11	060-4015-90	PS1292H	S 2	013-7413-50	LIMIAT
D 12	001-7058-90	AN1105W-RR	Q 12	060-4015-90	PS1292H	PWB	039-1944-21	PWB(WITHOUT COMPONENT)
J 4	074-1138-60	10P	S 1	013-7414-50	CHUCKING			

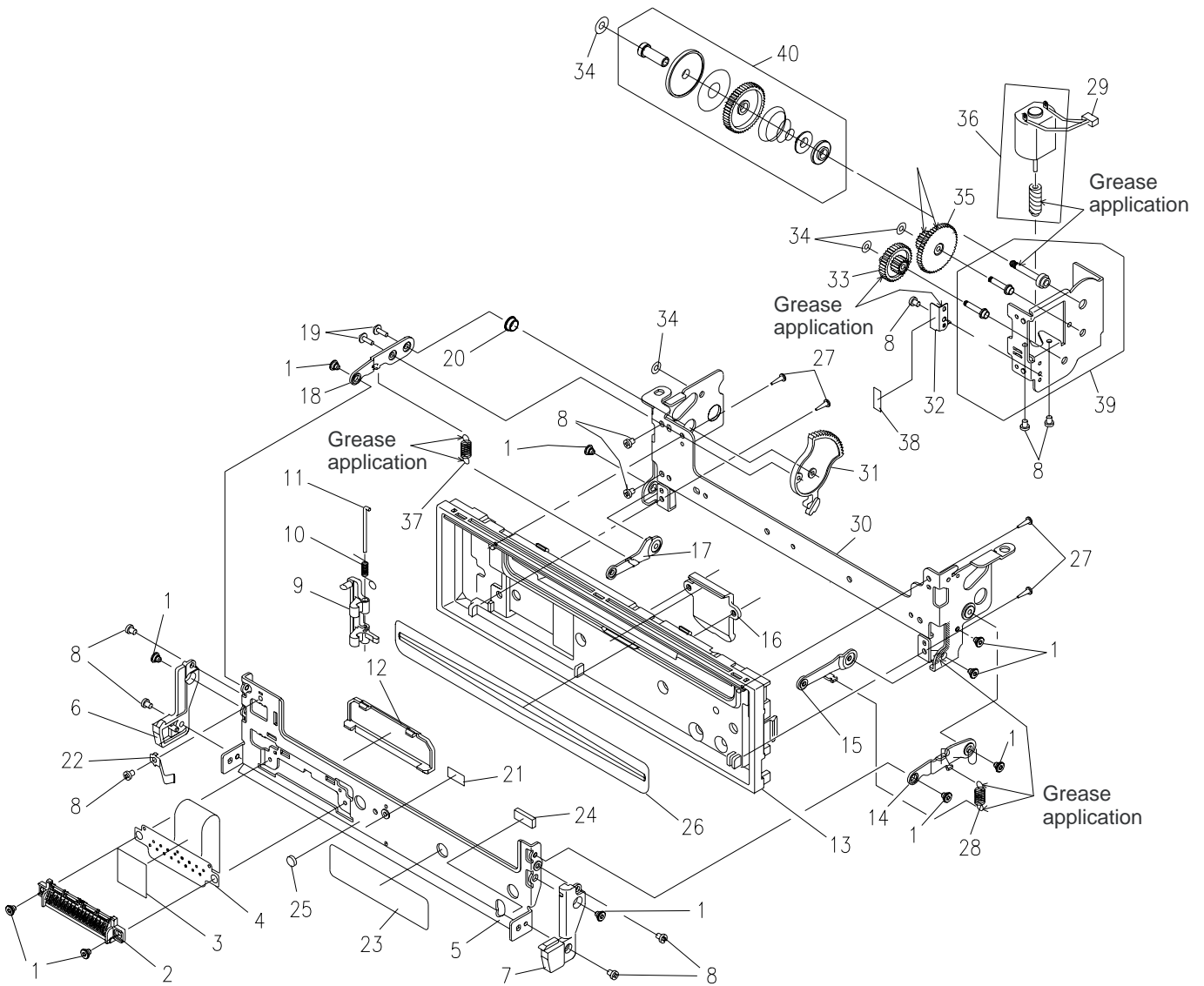
EXPLODED VIEW • PARTS LIST

DCP section



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	DCP-485-600	DCP ASSY(PE-2619B-A)	1	1-26	716-0872-01	PAD SCREW(M1.7x6)	5
	DCP-487-800	DCP ASSY(PE-2619K-A/B)	1	1-27	716-0872-12	PAD SCREW(M1.7x8)	4
1-1	373-1019-01	DIAL CVR(PE-2619B-A)	1	1-28	347-7165-00	SURGE FILM	1
	373-1019-06	DIAL CVR(PE-2619K-A/B)	1	1-29	347-7164-00	SURGE FILM	1
1-2	371-5776-01	FACE PANCEL(PE-2619B-A)	1	1-30	347-7162-00	SHADE	1
	371-5776-05	FACE PANCEL(PE-2619K-A/B)	1	1-31	347-7159-00	CUSHION	2
1-3	371-5775-01	FACE PANCEL(PE-2619B-A)	1	1-32	347-7161-00	SHADE	1
	371-5775-05	FACE PANCEL(PE-2619K-A/B)	1	1-33	347-7168-00	DOUBLE FACE	1
1-4	378-0537-00	BADGE	1	1-34	347-6977-00	COVER FILM	1
1-5	370-6079-01	ESCUTCHEON(PE-2619B-A)	1	1-35	778-6019-01	SCREW(1.7x6)(PE-2619B-A)	2
	370-6079-00	ESCUTCHEON(PE-2619K-A/B)	1		778-6019-00	SCREW(1.7x6)(PE-2619K-A/B)	2
1-6	382-6843-01	BUTTON	1	1-36	331-3689-00	LCD CVR	1
1-7	382-6842-01	BUTTON(PE-2619B-A)	1	1-37	379-1298-81	INDICATOR(LCD)	1
	382-6842-02	BUTTON(PE-2619K-A/B)	1	1-38	347-7252-00	FILM	1
1-8	382-6841-01	BUTTON(PE-2619B-A)	1	1-39	347-7157-00	FILM	1
	382-6841-00	BUTTON(PE-2619K-A/B)	1	1-40	335-7051-00	ILLUMI PLATE	1
1-9	380-5581-00	KNOB CVR	1	1-41	347-7158-00	REFLECTOR	1
1-10	345-5364-00	RUBBER RING	1	1-42	335-7052-00	LCD HOLDER	1
1-11	347-6988-00	DOUBLE FACE	1	1-43	345-5421-00	RUBBER CONNECTOR	1
1-12	380-5582-00	INNER KNOB	1	1-44	076-0708-02	PLUG	2
1-13	382-6840-00	BUTTON	1	1-45	016-9900-85	ENCODER-SW	1
1-14	382-6845-00	BUTTON	1	1-46	076-0647-00	PLUG	1
1-15	382-6846-00	BUTTON	1	1-47	013-6507-50	SWITCH	20
1-16	382-6844-01	BUTTON(PE-2619B-A)	1	1-48	001-7072-91	DIODE	5
	382-6844-00	BUTTON(PE-2619K-A/B)	1	1-49	345-5465-00	CUSHION	1
1-17	335-7088-00	ILLUMI PLATE	1	1-50	347-7167-00	SHADE	4
1-18	750-6750-00	SPRING	1	1-51	060-4017-90	IR-RECEIVE	1
1-19	335-6899-00	REAR CVR	1	1-52	051-6636-18	IC	1
1-20	335-7089-00	ILLUMI PLATE	1	1-53	051-6057-10	IC	1
1-21	382-6849-01	BUTTON	1	1-54	347-7037-00	CUSHION	1
1-22	382-6847-00	BUTTON	1	1-55	345-5307-00	CUSHION	2
1-23	335-7090-00	ILLUMI PLATE	1	1-56	347-7163-00	SHADE	1
1-24	382-6848-00	BUTTON	1	1-57	-----	SW-PWB	1
1-25	345-8647-00	CUSHION	1				

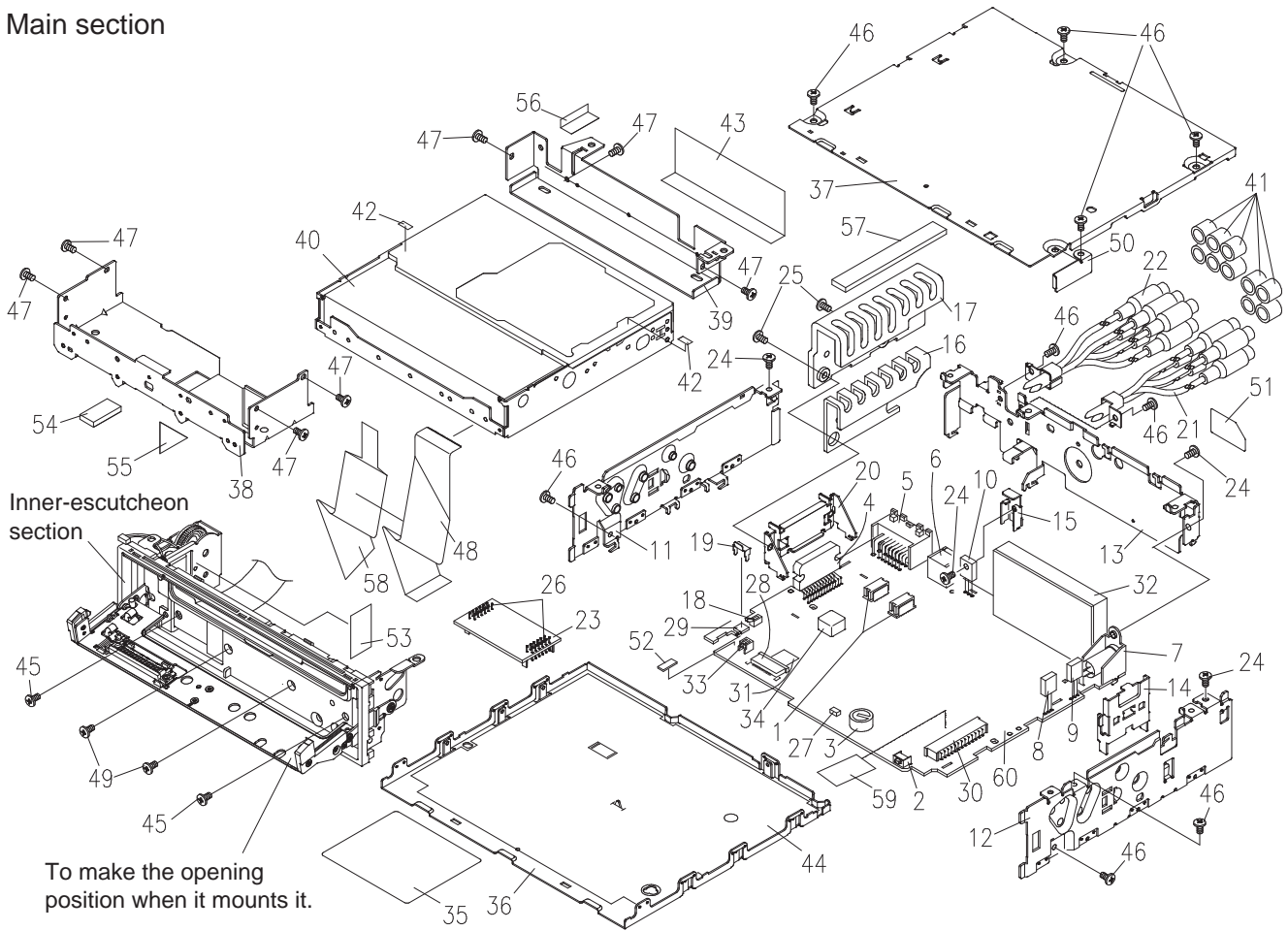
Inner-Escutcheon section



Note) Grease uses FLOIL G-31SB.

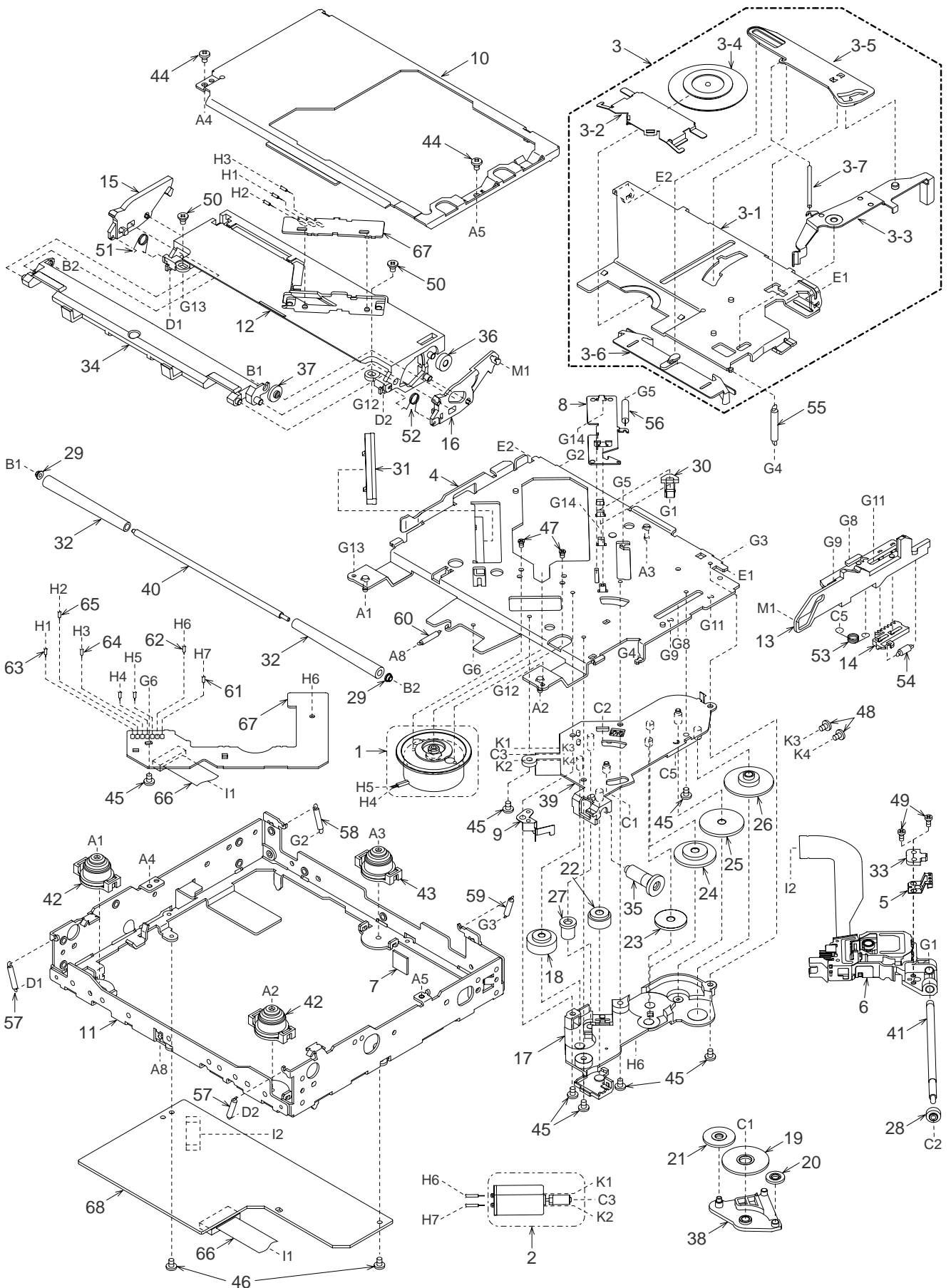
NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	716-1715-02	SCREW(M2)	10	21	347-6527-00	CUSHION	1
2	074-1278-01	OUTLET SOCKET	1	22	750-3457-00	SPRING	1
3	347-6528-00	INSULATOR	1	23	291-0102-00	STICKER	1
4	039-2409-00	FPC PWB (WITHOUT COMPONENT)	1	24	345-8627-00	CUSHION	1
5	331-3115-01	DCP HOLDER	1	25	345-8265-00	CUSHION	1
6	335-6903-00	ARM COVER	1	26	346-0150-02	LEATHER SHEET	1
7	335-6904-00	ARM COVER	1	27	716-0872-00	PAD SCREW(M1.7x5)	4
8	716-1468-20	SCREW(M2x2.5)	10	28	750-3304-20	SPRING	1
9	335-7176-00	HOOK	1	29	854-4380-01	EX-LEAD	1
10	750-3431-02	SPRING	1	30	309-0772-02	FRONT PLATE	1
11	341-1802-00	SHAFT	1	31	613-0719-00	ARM-GEAR	1
12	335-6499-00	CN-CVR	1	32	750-3432-00	SPRING	1
13	370-5935-07	INNER-ES	1	33	613-0720-00	HUS-GEAR	1
14	331-3117-01	LEVER-UP	1	34	746-0768-20	WASHER(1.0x0.5)	1
15	331-3118-01	LEVER-LO	1	35	613-0717-00	INPUT GEAR	1
16	335-6505-00	ILLUMI PLATE	1	36	634-0023-00	MOTOR ASSY	1
17	331-3119-00	LEVER-LO	1	37	750-3303-20	SPRING	1
18	331-3120-00	LEVER-UP	1	38	347-6275-00	FILM	1
19	716-1758-00	PAD SCREW(2x5)	2	39	946-0079-01	GEAR BOX ASSY	1
20	341-1740-00	ROLLER	1	40	947-0513-02	T-LIM GEAR ASSY	1

Main section



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	074-1106-12	OUTLET SOKET	2	32	880-2090B	TUNER	1
2	013-6100-00	SWITCH	1	33	076-0313-02	PLUG	1
3	042-0576-00	DOUBLE-LAYER-C	1	34	331-2869-00	SHIELD CASE	1
4	051-2053-00	IC	1	35	286-6375-00	SETPLATE(PE-2619B-A)	1
5	074-1214-00	OUTLET SOKET	1		286-6378-00	SETPLATE(PE2619K-A)	1
6	074-1194-00	OUTLET SOKET	1		286-6379-00	SETPLATE(PE2619K-B)	1
7	092-4000-51	ANT-RECEPT	1	36	304-0460-01	LOWER CVR	1
8	101-0941-00	TRANSISTOR	1	37	303-0472-06	UPPER CVR	1
9	125-4015-90	TRANSISTOR	1	38	331-3581-00	MECH-BRKT	1
10	102-3420-00	TRANSISTOR	1	39	331-3324-00	MECH-BRKT	1
11	305-0274-01	SIDE CVR	1	40	929-0300-82	CD-MECH-MODULE	1
12	305-0275-00	SIDE CVR	1	41	345-3799-20	RUBBER PART	10
13	307-0699-00	REAR CVR	1	42	347-6821-00	FILM	2
14	313-1651-21	HEAT SINK	1	43	347-6705-00	INSULATOR	1
15	313-1715-20	HEAT SINK	1	44	347-5918-00	INSULATOR	1
16	313-1845-00	HEAT SINK	1	45	716-0717-10	SCREW(M2.3x3)	2
17	313-1844-01	HEAT SINK	1	46	731-3006-80	TAPTIGHT(M3x6)	9
18	013-7106-00	DETECTOR SWITCH	1	47	714-2603-80	MACHINE SCREW(M2.6x3)	7
19	331-3378-00	SW-HOLDER	1	48	816-2626-50	FLAT CABLE	1
20	331-2255-20	IC-HOLDER	1	49	780-2005-00	SCREW(M2x5)	2
21	855-5488-50	PCA PIN CORD	1	50	331-2744-00	STOPPER	1
22	855-5424-50	PCA PIN CORD	1	51	347-6245-00	FILM	1
23	-----	SUB PWB	1	52	345-8701-00	CUSHION	1
24	714-3006-81	MACHINE SCREW(M3x6)	4	53	347-6536-00	PROTECT SHEET	1
25	731-3008-87	TAPTIGHT(M3x8)	2	54	345-5318-00	CUSHION	1
26	076-0659-12	PLUG	2	55	347-7017-00	DOUBLE FACE	1
27	001-7062-90	DIODE	1	56	347-7018-00	INSULATOR	1
28	074-1198-68	OUTLET SOKET	1	57	345-5441-00	HEAT RUBBER	1
29	013-7206-50	DETECTOR SWITCH	1	58	347-7248-00	E-SHEET	1
30	074-1138-70	OUTLET SOKET	1	59	347-7254-00	FILM	1
31	347-6215-00	FILM	1	60	-----	MAIN PWB	1

CD mechanism section: 929-0300-82



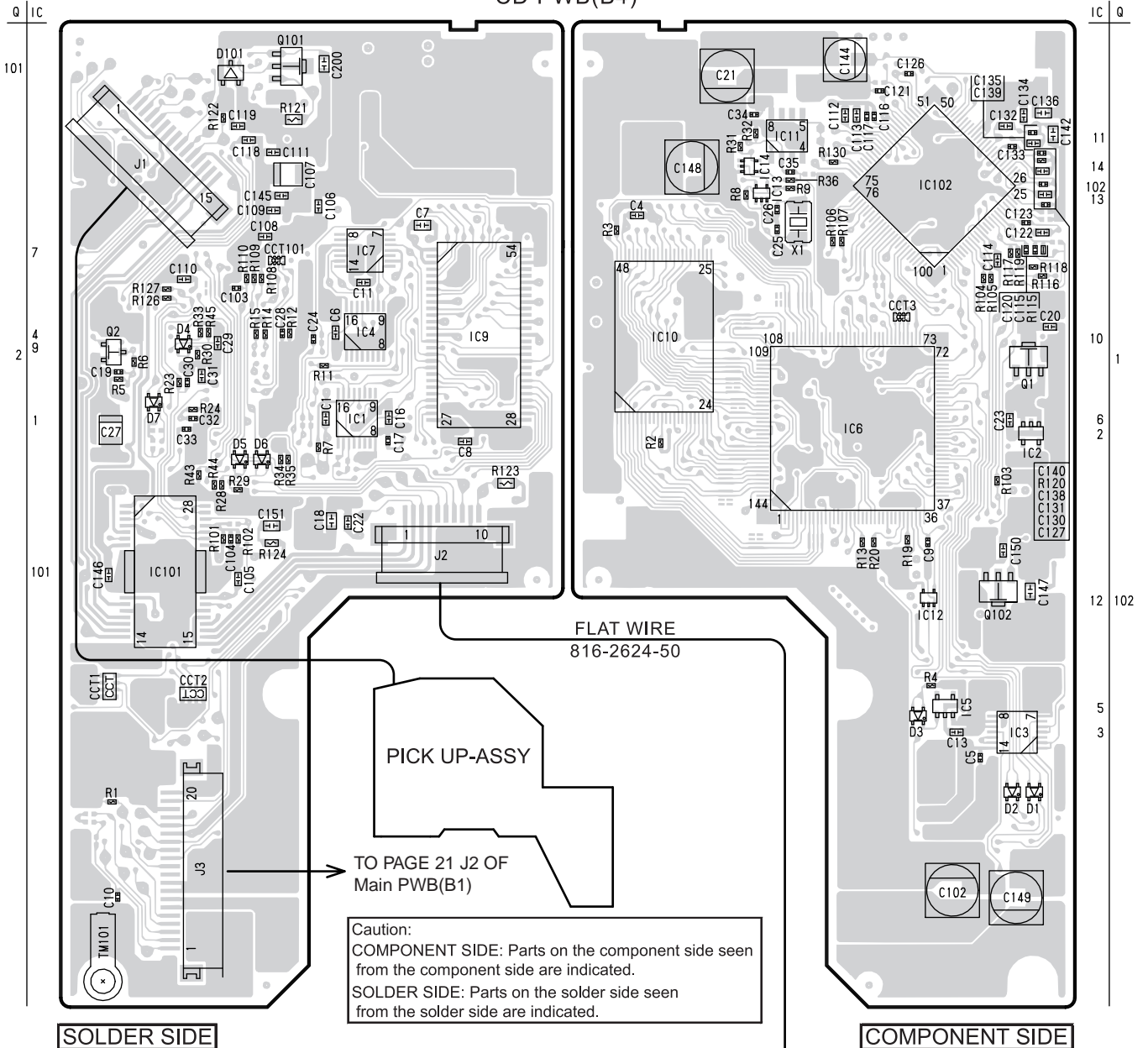
NO.	PART NO.	DESCRIPTION	Q'TY
1	SMA-182-100	SPD-MOTOR-ASSY	1
2	SMA-183-100	POW-MOTOR-ASSY	1
3	HBS-524-100	CLAMP-SUB-ASSY	1
3-1	620-1022-25	CLAMPER LINK	1
3-2	620-1023-23	CLAMPER PLATE	1
3-3	620-1024-23	SENSOR ARM	1
3-4	621-0626-21	STOPPER LINK	1
3-5	621-0627-21	DISC STOPPER	1
3-6	621-0708-20	CLAMPER RING	1
3-7	750-3471-20	SENSOR SPRING	1
4	966-0595-25	DRIVE-PLT-ASSY	1
5	966-0638-20	SH-RACK-ASSY	1
6	969-0065-31	PICK UP-ASSY	1
7	345-8704-20	CUSHION RUBBER	1
8	620-1025-22	ID-LOCK PLATE	1
9	620-1026-21	SPRING PLATE	1
10	620-1028-23	UPPER CHASSIS	1
11	620-1585-21	LOWER SHASSIS-W	1
12	621-0598-27	UPPER GUIDE	1
13	621-0600-26	SHIFT LEVER	1
14	621-0601-21	RACK	1
15	621-0602-22	LOCK ARM L	1
16	621-0603-25	LOCK ARM R	1
17	621-0605-22	GEAR COVER	1
18	621-0608-21	SECOND GEAR	1
19	621-0609-20	BASE GEAR	1
20	621-0610-20	IDLE GEAR A	1
21	621-0611-20	IDLE GEAR B	1
22	621-0612-21	ROLLER GEAR A	1
23	621-0616-20	POWER GEAR A	1
24	621-0617-20	POWER GEAR B	1
25	621-0618-20	POWER GEAR C	1
26	621-0619-20	POWER GEAR D	1
27	621-0620-20	THREAD GEAR A	1
28	621-0621-20	THREAD GEAR B	1
29	621-0622-21	ROLLER SLEEVE	2
30	621-0623-23	LS-HOLDER	1
31	621-0624-22	GUIDE RAIL	1

NO.	PART NO.	DESCRIPTION	Q'TY
32	621-0629-20	LOADING ROLLER	2
33	621-0709-20	SH-BASE	1
34	621-0718-21	ROLLER GUIDE	1
35	621-0719-20	ROLLER GEAR	1
36	621-0720-20	ROLLER GEAR C	1
37	621-0721-20	ROLLER GEAR D	1
38	621-0723-20	IDLE CASE	1
39	621-0724-21	GEAR BASE	1
40	622-1660-20	ROLLER SHAFT	1
41	624-0018-01	LEAD SCREW	1
42	629-0086-20	DAMPER F	2
43	629-0087-20	DAMPER R	1
44	714-2003-81	MACHINE SCREW(M2x3)	2
45	716-1507-00	SCREW(M2x3)	7
46	716-1670-00	SCREW(M2x4)	2
47	716-1733-00	SCREW(M1.7x2.3)	2
48	716-3446-00	SCREW(M4.1x2.5)	2
49	716-3469-00	SCREW(1.7x4)	2
50	716-3473-00	SCREW(M2x3)	2
51	750-3465-21	ROLLER SPRING L	1
52	750-3466-20	ROLLER SPRING R	1
53	750-3467-21	SHIFT SPRING	1
54	750-3468-20	RACK SPRING	1
55	750-3469-20	CLAMPER SPRING	1
56	750-3470-20	ID-LOC K SPRING	1
57	750-3472-21	DR-SPRING F	2
58	750-3473-20	DR-SPRING RA	1
59	750-3474-20	DR-SPRING RB	1
60	750-3475-21	DR-SPRING C	1
61	803-4906-60	VINYL-COAT-WIRE(ORANGE)	1
62	816-2590-00	EXTENSION LEAD(GREEN)	1
63	816-2591-00	EXTENSION LEAD(YELLOW)	1
64	816-2592-00	EXTENSION LEAD(BLUE)	1
65	816-2593-00	EXTENSION LEAD(PURPLE)	1
66	816-2624-50	FLAT WIRE	1
67	-----	LED PWB	1
68	-----	CD PWB	1

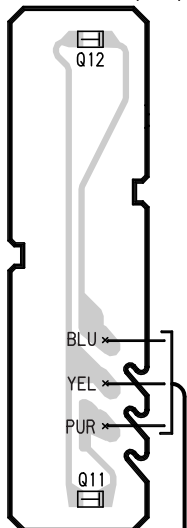
PRINTED WIRING BOARD

CD PWB(B4) / LED PWB(B5) section

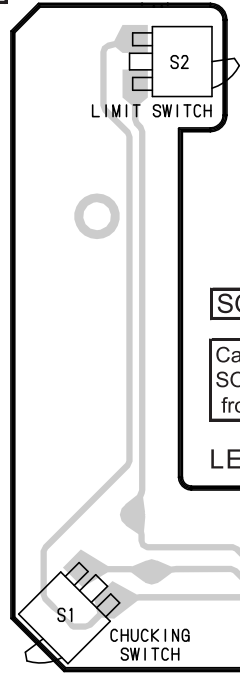
CD PWB(B4)



LED PWB-B(B5)



LIMIT SWITCH

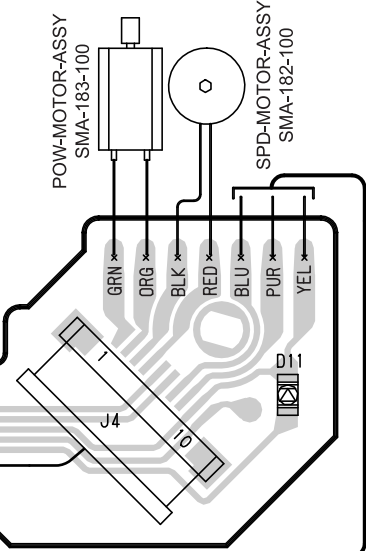


SOLDER SIDE

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

LED PWB-A(B5)

COMPONENT SIDE

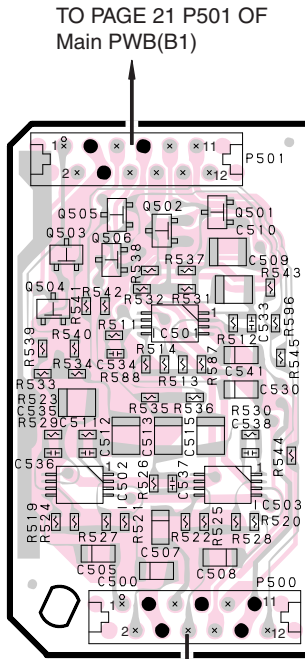


PRINTED WIRING BOARD
 Sub PWB(B2) / Switch PWB(B3) section

Switch PWB(B3)

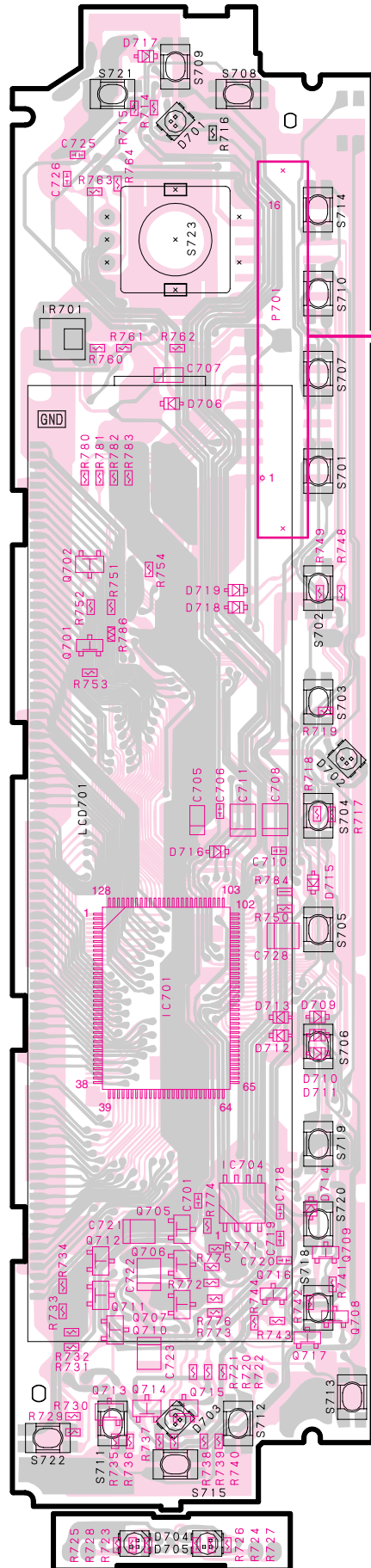
Sub PWB(B2)

Q	IC
Q501	
Q505	
Q502	
Q503	
Q506	
Q504	
IC501	
IC502	
IC503	



MARKS ● AND MARKS [GND] ARE ON THE GROUND OF THE DIP LAYER.

Q	IC
Q702	
Q701	
IC701	
IC704	
Q705	
Q712	
Q706	
Q709	
Q716	
Q711	
Q708	
Q707	
Q710	
Q717	
Q713	
Q714	
Q715	

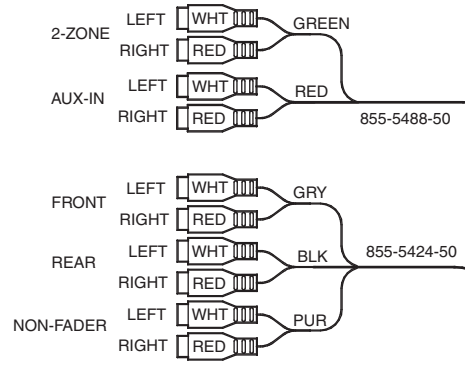


TO PAGE 21 J602 OF Main PWB(B1)

PRINTED WIRING BOARD
Main PWB (B1) section

1	GND
2	BUS 14V
3	L-CH (+)
4	
5	
6	BUS (+)
7	R-CH (+)
8	R-CH (-)
9	SYS-ACC
10	BUS (-)
11	L-CH (-)
12	ILLUMI
13	

13P DIN (CE-NET)



EX-LEAD (CONNECTOR)

Port No.	NOTE	LINE COLOR
1	GND	BLACK
2	B/U 14V	YELLOW
3	ILLUMI	ORANGE/WHITE
4	REMOTE	BLUE/WHITE
5	AUTO ANT	BLUE
6	ACC	RED
7	PHONE INT	BROWN
8	SP R/L (-)	GREEN/BLACK
9	B/U	YELLOW
10	SP R/R (-)	PURPLE/BLACK
11	SP R/R (+)	PURPLE
12	SP F/R (-)	GRAY/BLACK
13	SP F/R (+)	GRAY
14	SP F/L (+)	WHITE
15	SP F/L (-)	WHITE/BLACK
16	SP R/L (+)	GREEN

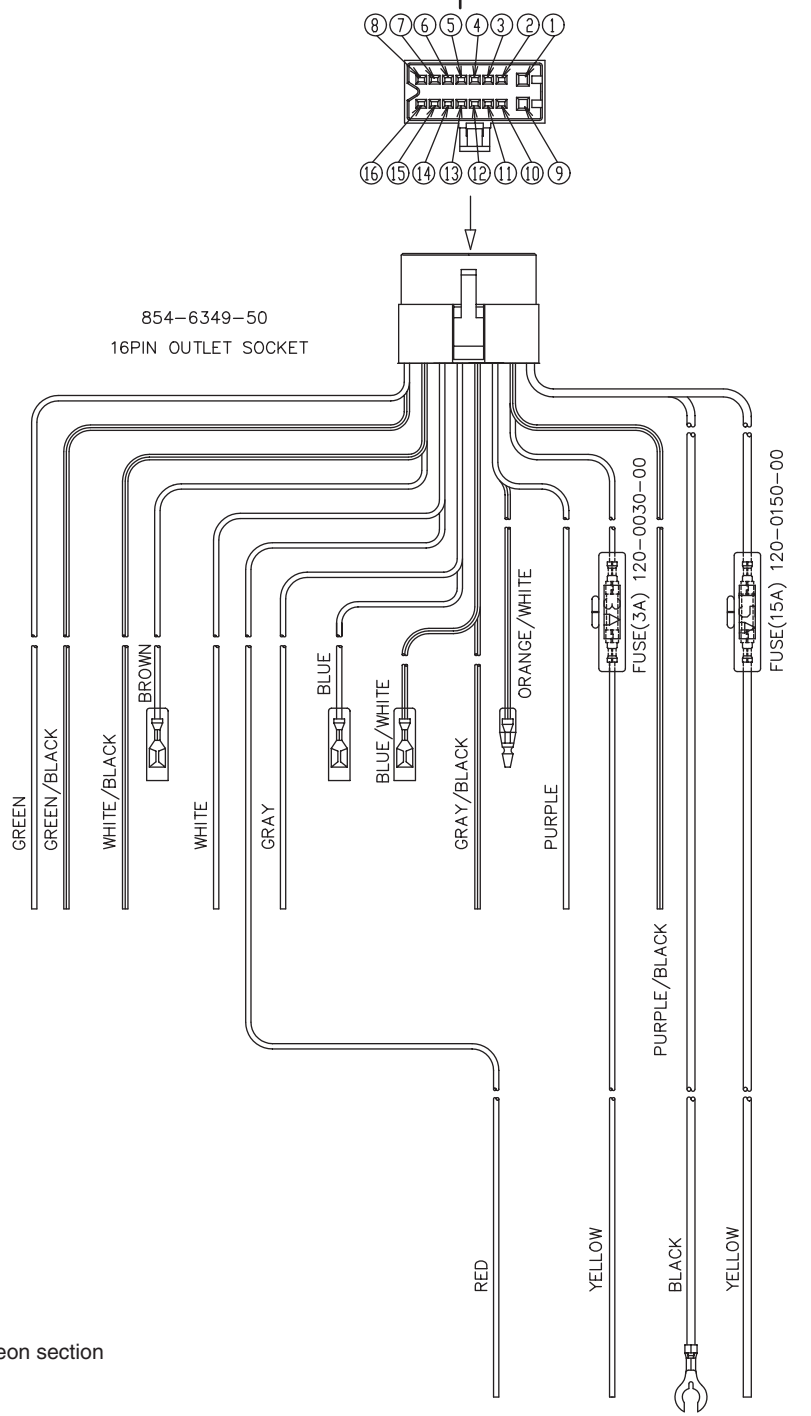
Q 1C
Q201
Q202
Q6
Q7
Q8
Q250
Q698
Q244
Q697
Q401
Q214
Q245
Q224
Q301
Q308
Q101
Q304
Q305
Q401
Q235
Q426
Q252
Q414
Q416
Q236
Q424
Q415
Q251
Q425
Q301
Q212
Q602
Q213
Q603
Q229
Q2301
Q2302
Q240
Q226
Q232
Q2300
Q2303
Q228
Q248
Q222
Q211
Q227
Q223
Q220
Q210
Q617
Q242

TO PAGE 19 J3 OF CD PWB(B4)

MARKS ● AND MARKS [GND] ARE ON THE GROUND OF THE DIP LAYER.

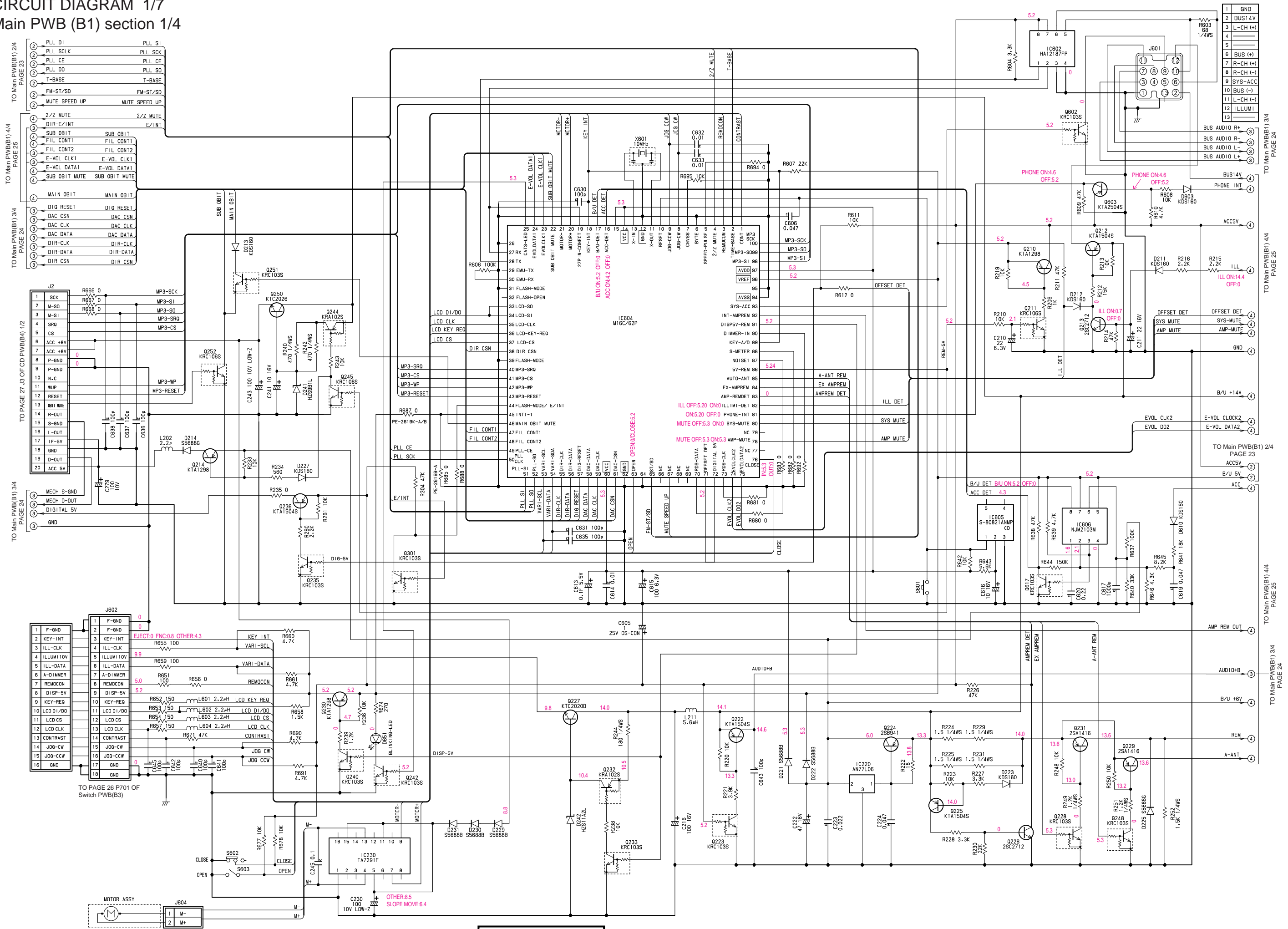
039-2409-00 FPC
To Switch PWB(B3) section P701

To Inner Escutcheon section
MOTOR ASSY

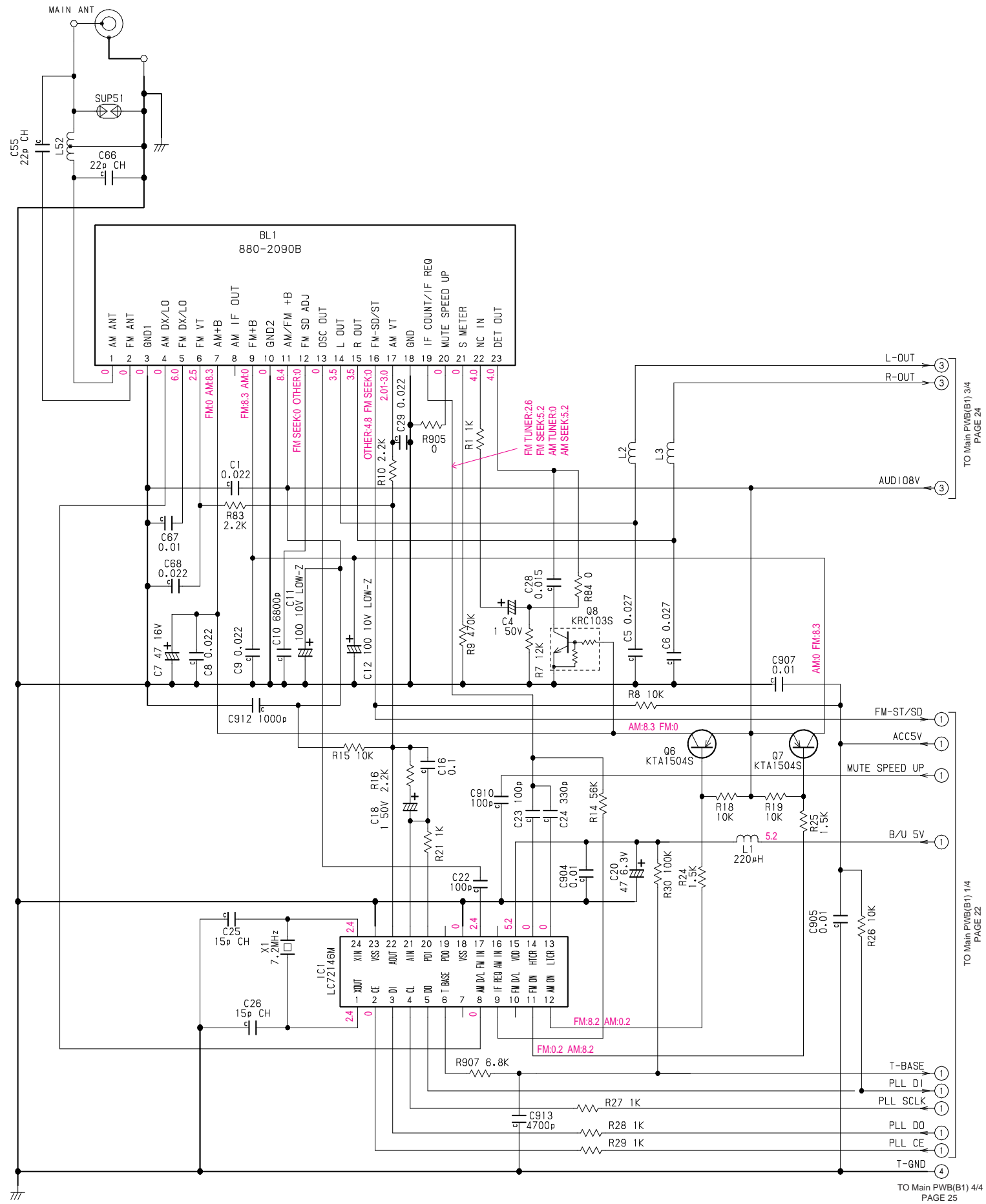


CIRCUIT DIAGRAM 1/7

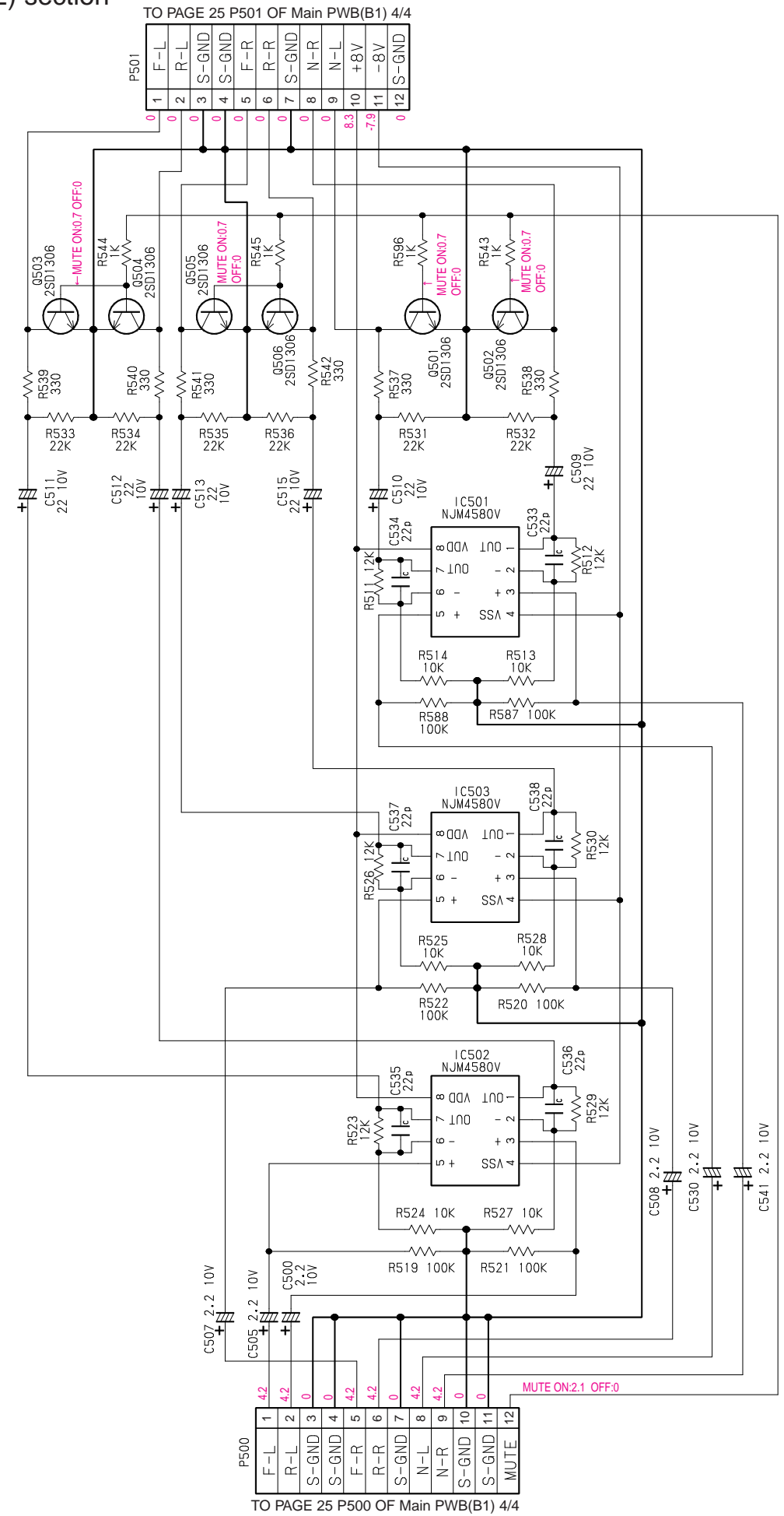
Main PWB (B1) section 1/4



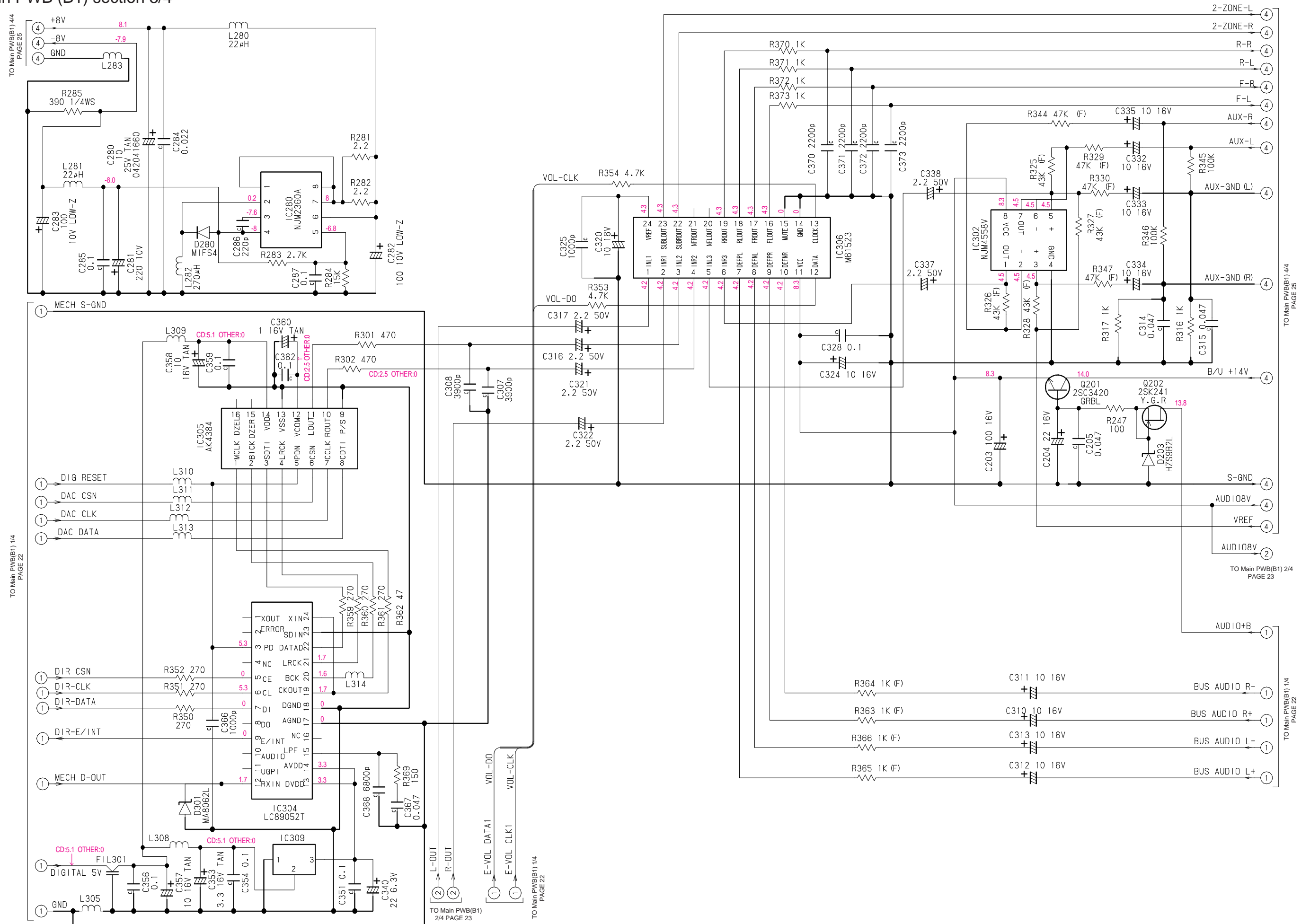
CIRCUIT DIAGRAM 2/7
Main PWB (B1) section 2/4



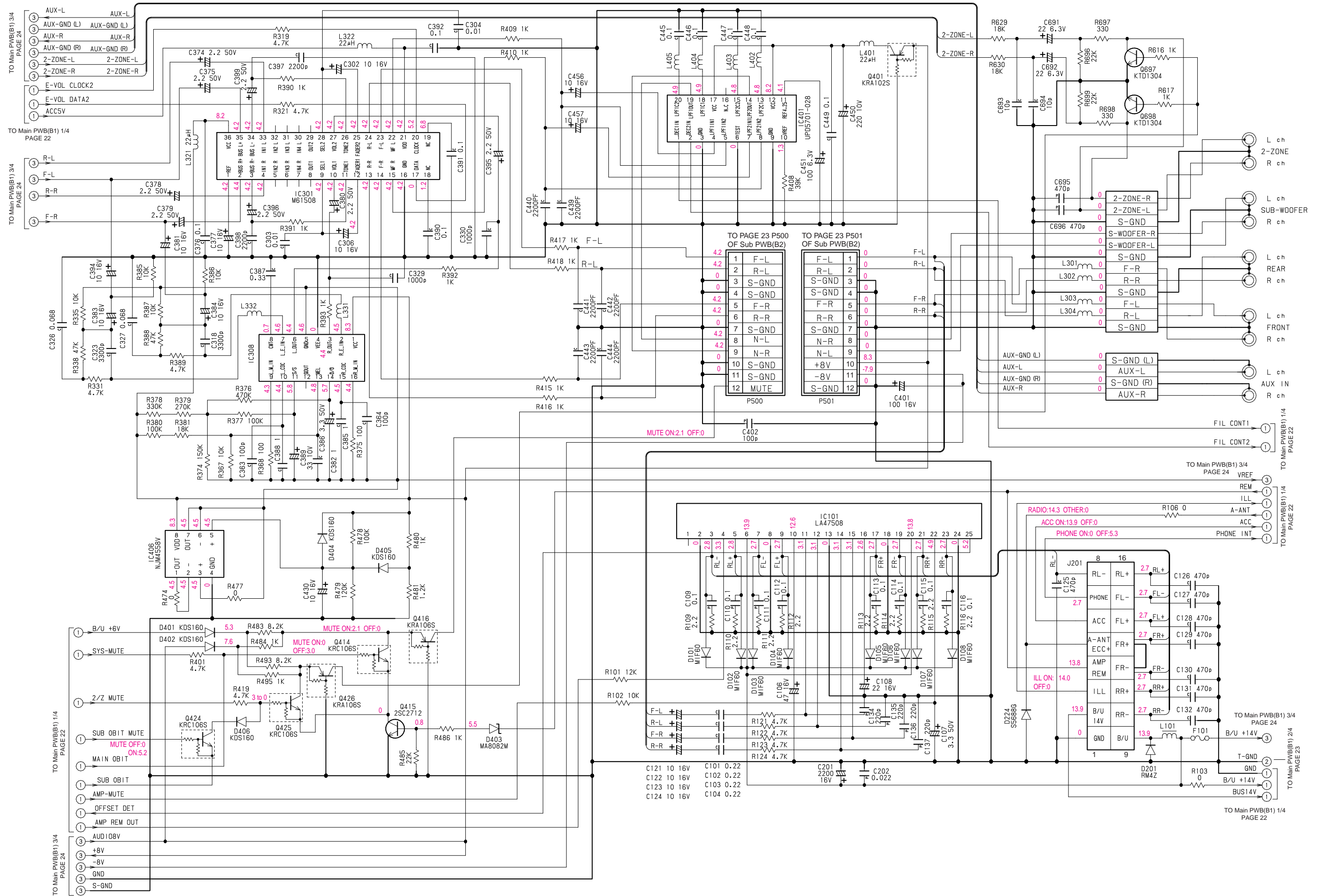
Sub PWB (B2) section



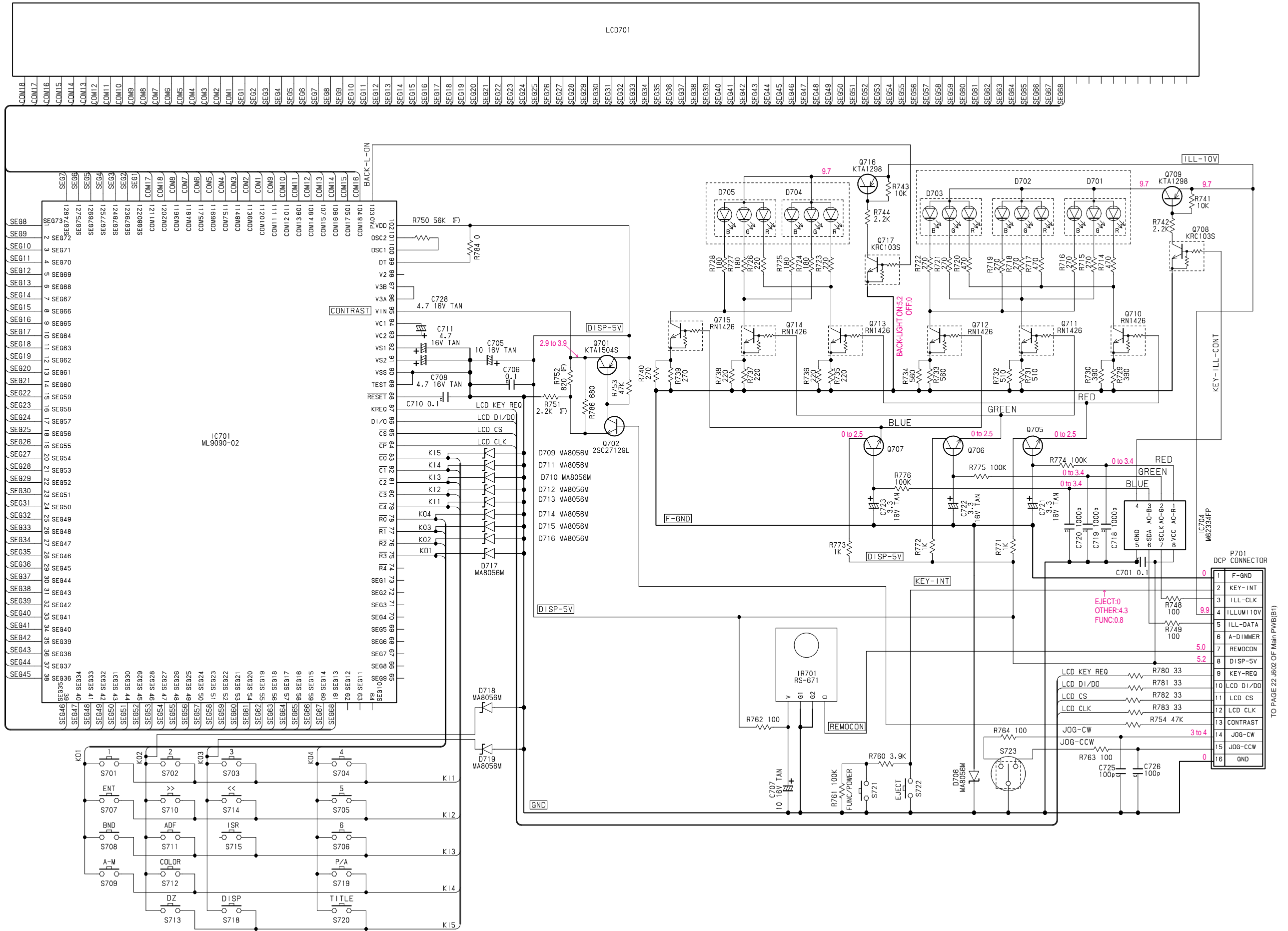
CIRCUIT DIAGRAM 3/7
Main PWB (B1) section 3/4



CIRCUIT DIAGRAM 4/7
Main PWB (B1) section 4/4

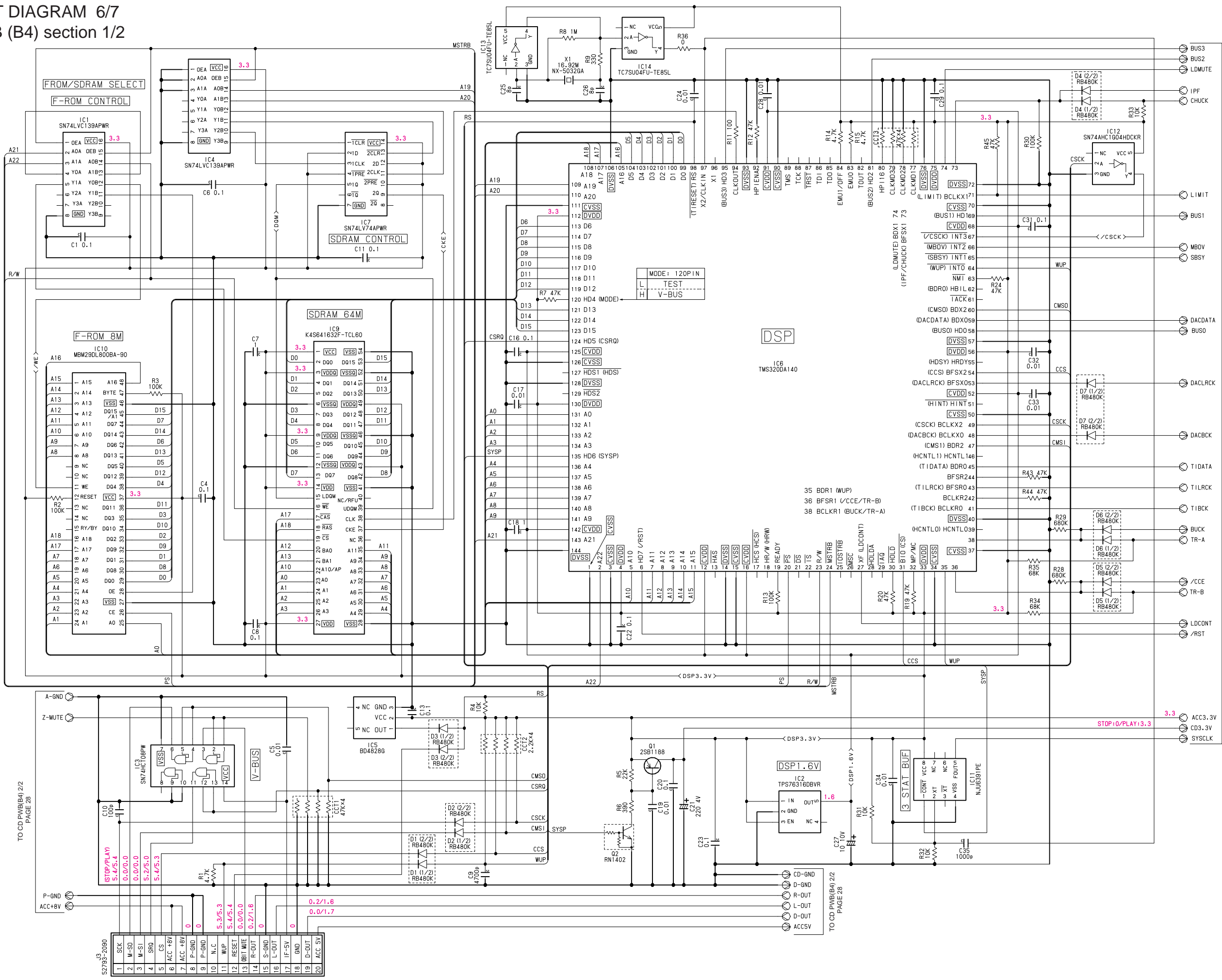


CIRCUIT DIAGRAM 5/7
Switch PWB (B3) section

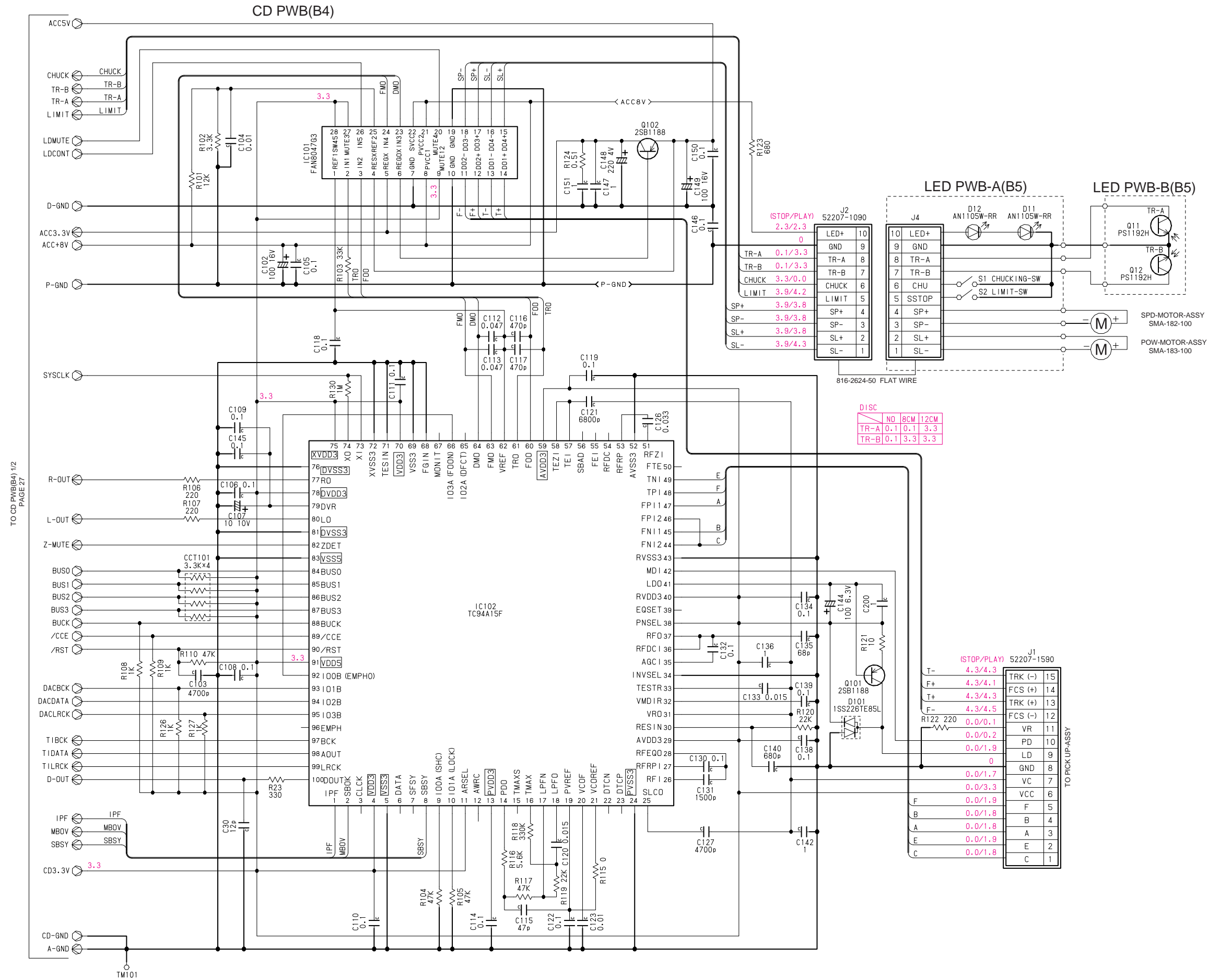


TO PAGE 22_002 OF Main PWB(B3)

CIRCUIT DIAGRAM 6/7
CD PWB (B4) section 1/2



CIRCUIT DIAGRAM 7/7
 CD PWB(B4)/ LED PWB(B5) section 2/2



TO CD PWB(B4) 1/2
 PAGE 27

TO PICK UP-ASSY