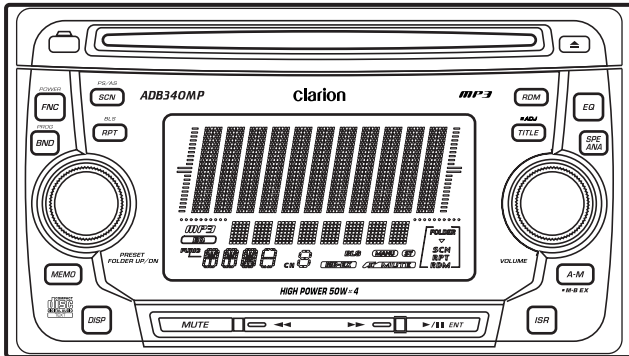


Service Manual



ADB340MP

2DIN AM/FM
 CD/MP3 Cassette Player

Model **ADB340MP**
 (PE-2652B / For U.S.A.)

Model **ADB341MP**
 (PE-2653K / For other countries)

REISSUE NOTIFICATION / REPLACEMENT REQUEST

ORIGINAL SERVICE MANUAL

This additional service manual is designed to be used together with the original manual.

Original model	Manual No.
ADB340MP(PE-2652B)	298-6153-00
ADB341MP(PE-2653K)	

ELECTRICAL PARTS LIST

Display PWB(B3) section (cf.page 17)

* The following part was modified.

[Serial No.] ADB340MP : from 5971
 ADB341MP : from 14930

REF No.	PART No.	DESCRIPTION
D902	653-0435-17	DI-HZM5.1-B1

EXPLODED VIEW / PARTS LIST

Main section (cf.page 10)

* The following part was modified.

It is possible to use a new CD mechanism(P/No. 653-0435-12) for an old unit. It is impossible to use a old CD mechanism(P/No. 653-0428-10) for a new unit.

[Serial No.] ADB340MP : from 4817

ADB341MP : from 9864

NO.	PART NO.	DESCRIPTION	Q'TY
11	653-0435-12	CD MECH(CDC03TL2)	1

CD mechanism section (cf.page 12-13)

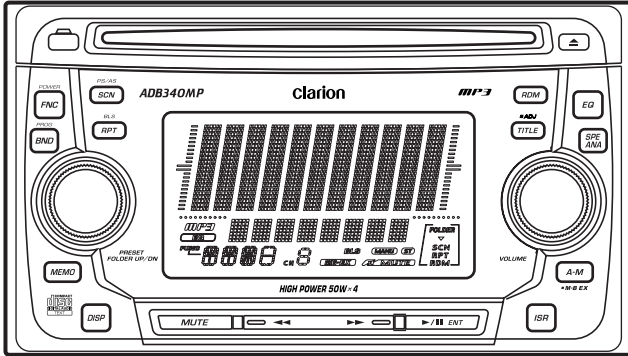
* The following parts were modified.

[Serial No.] ADB340MP : from 4817

ADB341MP : from 9864

NO.	PART NO.	DESCRIPTION	Q'TY
1	653-0435-18	CHASSIS	1
5	653-0435-19	TOP COVER	1
11	653-0435-20	DISC ARM L	1
12	653-0435-21	DISC ARM R	1
13	653-0435-22	TOP GUIDE	1
43	653-0435-23	CHACK SHEET	1
64	653-0435-24	MACHINE SCREW	5

Service Manual



2DIN AM/FM
CD/MP3 Cassette Player

Model **ADB340MP**
(PE-2652B-A / For U.S.A.)

Model **ADB341MP**
(PE-2653K-A / For other countries)

SPECIFICATIONS

FM tuner section

Frequency range: 87.9MHz to 107.9MHz
(ADB340MP)
87.0MHz to 108MHz
(ADB341MP)
Usable sensitivity: 11dBf
50dB quieting sensitivity: 17dBf
Alternate channel selectivity:
75dB
Stereo separation: 35dB (1kHz)
Frequency response: 30Hz to 15kHz (+/-3dB)

AM tuner section

Frequency range: 530kHz to 1710kHz (ADB340MP)
531kHz to 1629kHz (ADB341MP)
Usable sensitivity: 25uV

CD player section

Frequency response: 10Hz to 20kHz (+/-1dB)
S/N ratio: 100dB (1kHz)
Dynamic range: 95dB (1kHz)
Distortion: 0.01%

MP3 mode

MP3 sampling rate: 8kHz to 48kHz
MP3 bit rate: 8kbps to 320kbps/VBR
Logical format: ISO9660 level1,2
JOLIET or Romeo

Tape deck section

Wow & flutter: 0.06%(WRMS)
Channel separation: 45dB(1kHz)
Frequency response(+3/-3dB):
120us(normal); 30Hz to 18kHz

Audio section

Maximum power output: 50Wx4
Continuous average power output:
17Wx4, into 4ohm, 20Hz to 20kHz,
1%THD
Bass control action: +/-10dB (100Hz)
Middle control action: +/-10dB (1kHz)
Treble control action: +/-10dB (10kHz)
Line output level: 18V (CD 1kHz)



EQ

4mode: Impact / B-boost / Accoustic / Flat

General

Power supply voltage: 14.4V DC(10.8V to 15.6V allow-
able) negative ground
Current consumption: Less than 15A
Speaker impedance: 4ohm(4ohm to 8ohm allowable)
Dimensions(mm): 178(W)x100(H)x183(D)
Weight: 2.1kg

NOTES

- * In extreme cold, the screen movement may slow down and the screen may darken, but this is normal. The screen will recover when it returns to normal temperature.
- * Use only compact discs bearing the  or  mark.
- * Some CDs recorded in CD-R/CD-RW mode may not be usable.
- * 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.

COMPONENTS

PE-2652B-A / PE-2653K-A

1.	Main unit	-----	1
2.	Extension lead	653-0428-46	1
	(15A Fuse	120-0150-00)	
3.	NISSAN install kit	653-0428-56	1
3-1.	Finisher	-----	1
3-2.	Hexagon screw(M5x8)	-----	8
3-3.	Flat head screw(M5x8)	-----	8
3-4.	Spacer	-----	4
3-5.	Double-sided tape(4pce.)	-----	1

CAUTION

Use of controls, adjustment 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.



Top View of Source Unit

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.

- 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.

- Caution 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.

- Caution 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.
- Caution 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.

- Caution 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.

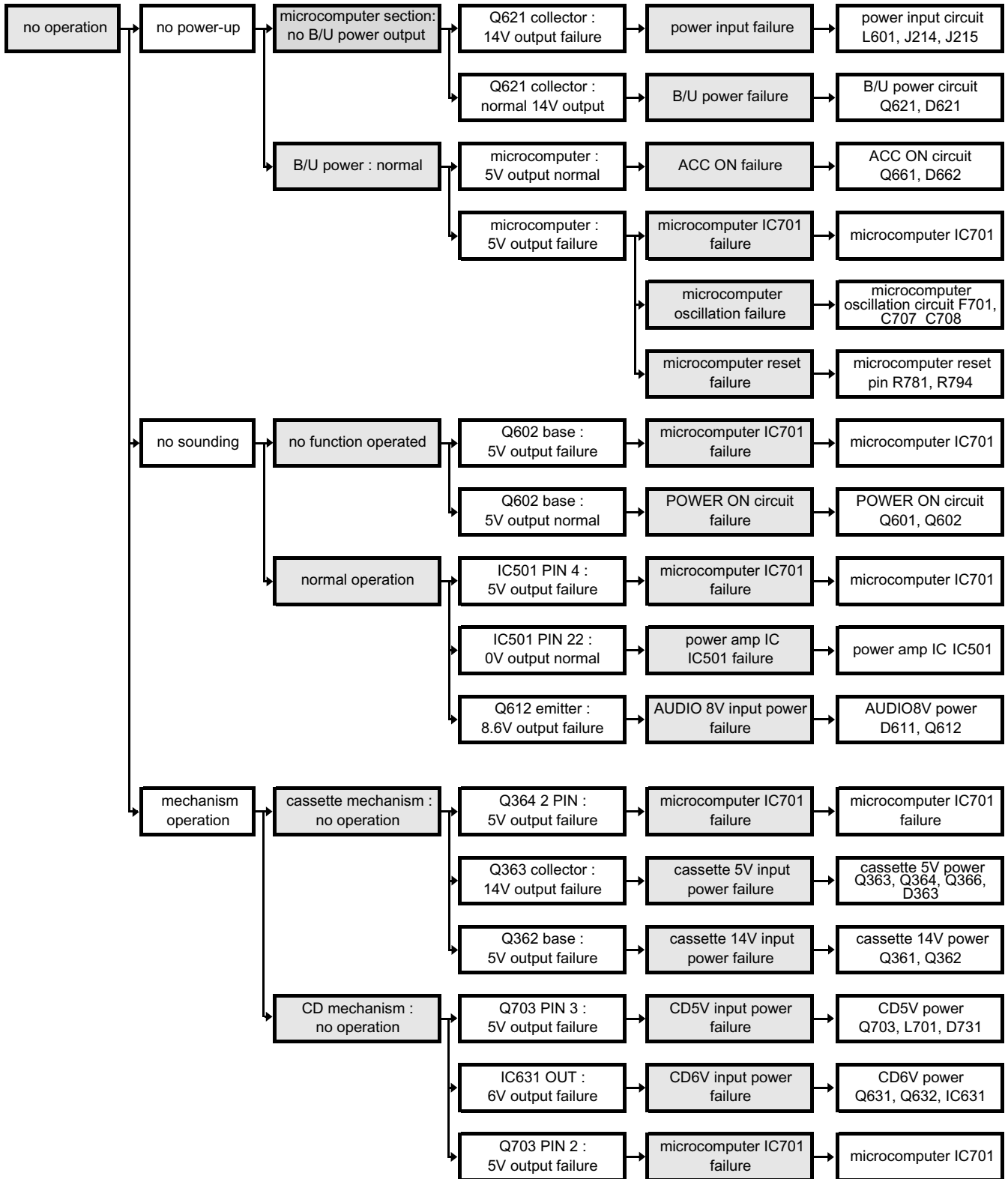
2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no 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.

TROUBLESHOOTING



IN CASE OF DIFFICULTY

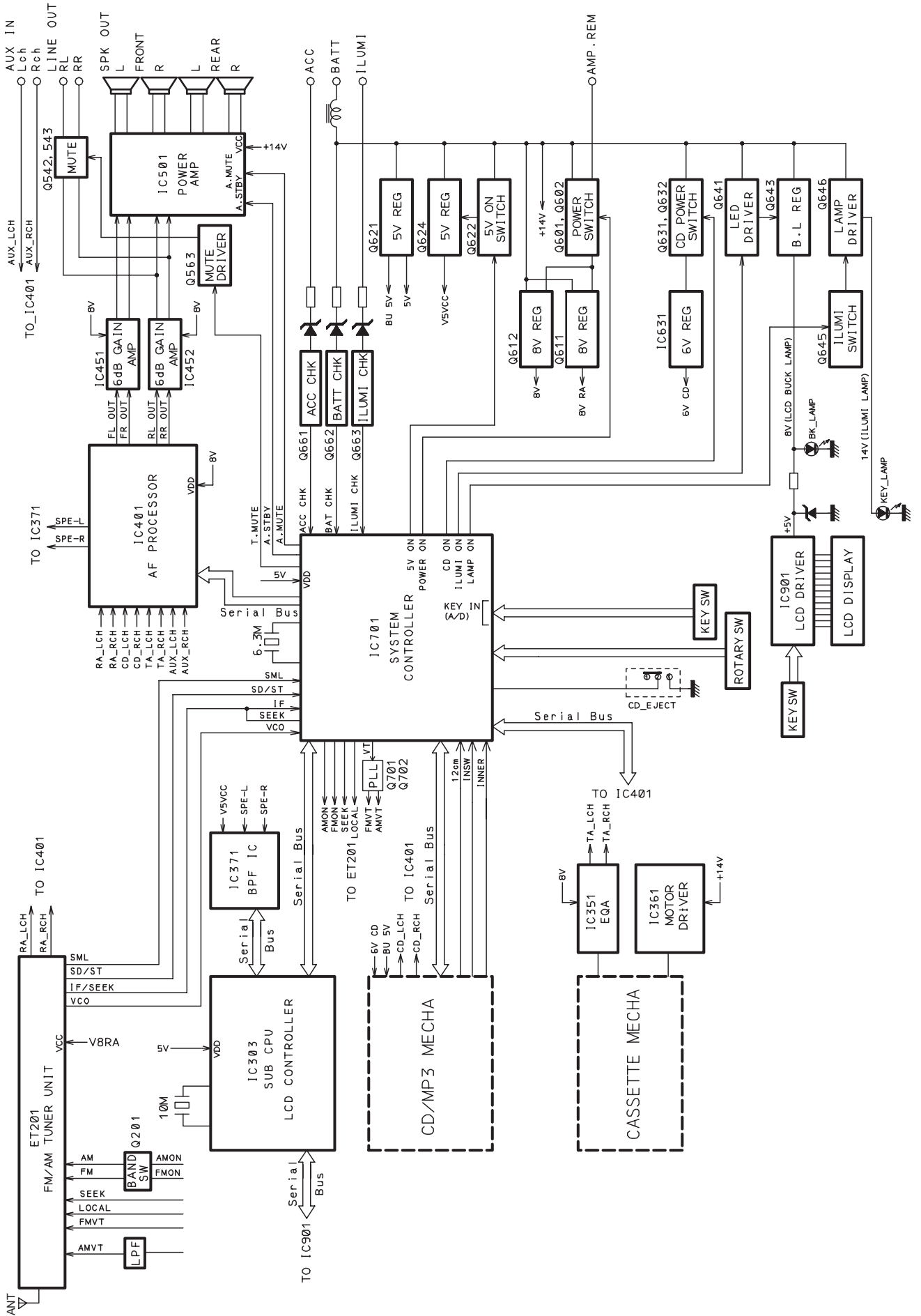
	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage.
		Incorrect wiring.	Wire properly.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive 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 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.	Press the CD eject button for more than 10 seconds to reset.
CD/MP3	No sound heard.	MP3 files are absent in a disc.	Write MP3 files onto the disc properly.
		Files are not recognized as an MP3 file.	Use MP3 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 files are not encoded properly.	Use MP3 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.	
Tape	Sound quality is poor.	Playback head is dirty.	Use a cleaning tape,etc.,to clean the head.

ERROR DISPLAYS

	Error Display	Cause	Measure
CD	ERROR 2	A DISC is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism.
	ERROR 3	A DISC cannot be played due to scratches,etc.	Replace with a non-scratched,non-warped-disc.
	ERROR 6	A DISC is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
Tape	ERROR	Tape is caught and cannot be ejected.	This is a failure of Tape deck's mechanism.

*If an error display other than the ones described above appears, Press the CD eject button for more than 10 seconds to reset.

BLOCK DIAGRAM



EXPLANATION OF IC

653-0429-22 uPD178078GF-667-3 Main Microcomputer

Terminal Description

pin 1: BATTCHK	:IN: Detection of instantaneous interruption (BATTERY OFF)
pin 2: REEL	:IN: TAPE REEL input detection pin
pin 3: S-SI	:IN: Serial In to SUB CPU
pin 4: S-SO	:O: Serial Out to SUB CPU
pin 5: S-CLK	:O: Serial CLK to SUB CPU
pin 6: S-CE	:O: Serial CE Active "H" to SUB CPU
pin 7: AMS	:IN: Heading search (pull up)
pin 8: R/F	:O: 1;FORWARD 0;REVERSE
pin 9: MP3 DATA	:I/O: TC94A20F data input/output pin (pull up)
pin 10: MP3CLK	:O: TC94A20F clock output pin (pull up)
pin 11: VOL CE	:O: Electronic volume IC latch output pin
pin 12: VOL SO	:O: Electronic volume IC data output pin
pin 13: VOL CLK	:O: Electronic volume IC clock output pin
pin 14: LOCAL	:O: SEEK sensitivity 1; LOCAL 0;DX
pin 15: CW	:IN: Preset Jog fetch (Up) (pull up)
pin 16: CCW	:IN: Preset Jog fetch (Down) (pull up)
pin 17: JOG CW	:IN: Volume Jog fetch (Up) (pull up)
pin 18: JOG CCW	:IN: Volume Jog fetch (Down) (pull up)
pin 19: FUNCKEY	:IN: Function Key input detection pin (pull up)
pin 20: CD EJECT	:IN: CD Eject Key input detection pin (pull up)
pin 21: TA EJECT	:IN: TAPE Eject Key input detection (pull up)
pin 22: ILUMICLK	:IN: Illumination Check On (pull up)
pin 23: KEY1	:IN: Key input
pin 24: KEY2	:IN: Key input
pin 25: KEY3	:IN: Unused (pull up)
pin 26: CUSTOMER	:IN: Usage setting initial
pin 27: AVDD	: - : A/D converter power pin 5V ± 10%
pin 28: AREA	:IN: Destination Setting
pin 29: NU	:IN: Unused (PULL DOWN)
pin 30: NU	:IN: Unused (PULL DOWN)
pin 31: SML	:IN: S-Meter(Unused)
pin 32: AVSS	: - : A/D converter power pin GND connection
pin 33: REGCPU	: - : CPU core power pin
pin 34: VDD	: - : Power pin 5V ± 10%
pin 35: REGOSC	: - : OSC circuit power pin
pin 36: X2	: - : 6.3MHz crystal oscillator connection pin
pin 37: X1	: - : 6.3MHz crystal oscillator connection pin
pin 38: GND0	: - : Power pin GND connection
pin 39: SD/ST	:IN: SD/ST On (pull up)
pin 40: GND2	: - : Power pin GND connection
pin 41: SEEK	:O: Seek control output pin Seek On
pin 42: IFC	:IN: IF frequency input
pin 43: VDDPLL	: - : PLL power pin 5V ± 10%
pin 44: FM VCO	:IN: FM VCO input pin
pin 45: AM VCO	:IN: AM VCO input pin
pin 46: GNDPLL	: - : PLL power pin GND connection
pin 47: E00	:O: PLL error output pin
pin 48: E01	:O: PLL error output pin
pin 49: IC	: - : Internal connection pin GND connection
pin 50: RESET	:IN: External reset signal input pin (L ; Reset)
pin 51: DIMMER	:O: DIMMER ON
pin 52: NU	:O: Unused
pin 53: ILUMION	:O: Illumination on
pin 54: ANTON	:O: Motor ANT on
pin 55: TACW	:O: Motor Forward output control pin
pin 56: TACCW	:O: Motor Reverse output control pin
pin 57: SUB-MTON	:O: TAPE Sub Motor on
pin 58: MAIN-MTON	:O: TAPE Main Motor on
pin 59: BEEP	:O: BEEP output
pin 60: LAMPON	:O: LAMP on control pin
pin 61: FM ON	:O: FM power control output pin FM On
pin 62: AM ON	:O: AM power control output pin AM On
pin 63: S-RST	:O: SUB CPU reset output pin
pin 64: INHCHK	:O: LCD Driver Inhibit
pin 65: IO0	:O: Motor drive mute output pin Mute off
pin 66: IO1	:O: Test Mode Gain control output pin CDRW
pin 67: SUB LED	:O: SUB LED control output pin SUB LED On

pin 68: NU	:O: Unused
pin 69: NU	:O: Unused
pin 70: CDBACKUP	:O: MP3 DSP Back up power control
pin 71: V5ON	:O: Spectrum analyzer power control pin
pin 72: FF	:O: FF/REW mode
pin 73: A STBY	:O: Power IC Stby control output pin Audio Standby On
pin 74: A MUTE	:O: Power IC Mute control output pin Audio Mute On
pin 75: MUTE	:O: Line Out Mute control output pin Mute On
pin 76: P ON	:O: Main power control output pin Power On
pin 77: CD ON	:O: CD power control output pin CDP On
pin 78: CD PULL UP	:I/O: CDPULL UP control
pin 79: ACC	:IN: ACC OFF detection
pin 80: SBSY	:IN: SUBQ read request from Tc9814F
pin 81: MP3 REQ	:IN: Request from TC94A20F (Reversed by Tr)
pin 82: GND1	: - : Power pin GND connection
pin 83: BUS0	:I/O: TC94A14F Bus line (pull up)
pin 84: BUS1	:I/O: TC94A14F Bus line (pull up)
pin 85: BUS2	:I/O: TC94A14F Bus line (pull up)
pin 86: BUS3	:I/O: TC94A14F Bus line (pull up)
pin 87: BUCK	:O: TC94A14F clock output pin
pin 88: CCE	:O: TC94A14F data enable output pin
pin 89: CD RST	:O: TC94A14F reset output pin
pin 90: S-BACKUP	:O: SUB CPU Backup request output pin
pin 91: INSW	:IN: Disc In detection pin (pull up)
pin 92: 12CM	:IN: 12CM detection (pull up)
pin 93: INNER	:IN: Inner SW On (pull up)
pin 94: DSP RST	:O: TC94A20F reset output pin
pin 95: STAND BY	:O: TC94A20F standby request output pin
pin 96: MODE	:IN: TAPE mode SW input detection (pull up)
pin 97: ST-BV	:IN: TAPE Standby state input pin (pull up)
pin 98: CA-IN	:IN: Cassette in detection pin (pull up)
pin 99: VDDPORT	: - : Port power pin 5V
pin100: GNDPORT	: - : Port power pin GND connection

653-0429-20 TA8275H Quad Bridge Power Amplifiers

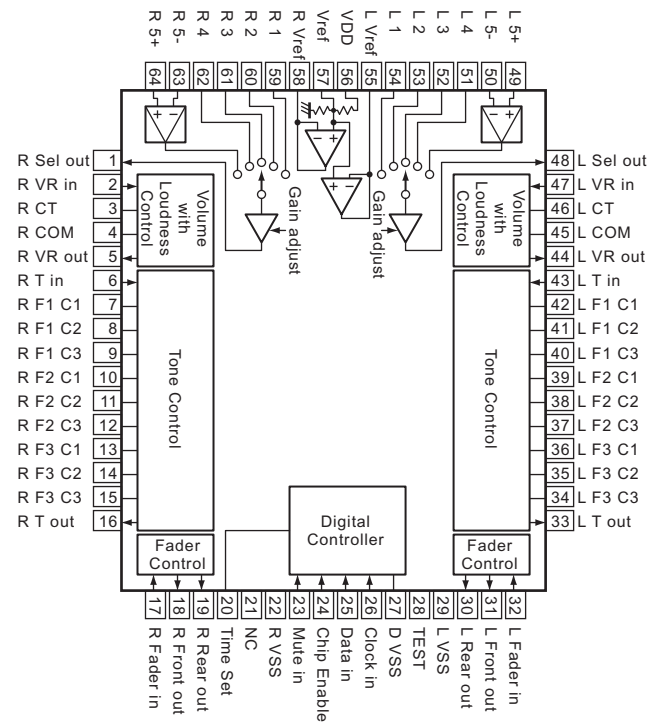
Terminal Description

pin 1: TAB	: TAB
pin 2: 2 P GND	: The power ground.
pin 3: 2 P OUT-	: The negative power output.
pin 4: STANDBY	: The standby signal input.
pin 5: 2 P OUT+	: The positive power output.
pin 6: VCC	: Positive supply voltage.
pin 7: 1 P OUT-	: The negative power output.
pin 8: 1 P GND	: The power ground.
pin 9: 1 P OUT+	: The positive power output.
pin 10: RIPPLE	: Connect the capacitor.
pin 11: 1 IN	: The audio signal input.
pin 12: 2 IN	: The audio signal input.
pin 13: S GND	: The signal ground.
pin 14: 4 IN	: The audio signal input.
pin 15: 3 IN	: The audio signal input.
pin 16: AUX IN	: Auxiliary input.
pin 17: 3 P OUT+	: The positive power output.
pin 18: 3 P GND	: The power ground.
pin 19: 3 P OUT-	: The negative power output.
pin 20: VCC	: Positive supply voltage.
pin 21: 4 P OUT+	: The positive power output.
pin 22: MUTE	: The muting signal input.
pin 23: 4 P OUT-	: The negative power output.
pin 24: 4 P GND	: The power ground.
pin 25: DIAGNOSIS	: The diagnosis signal output.

Terminal Description

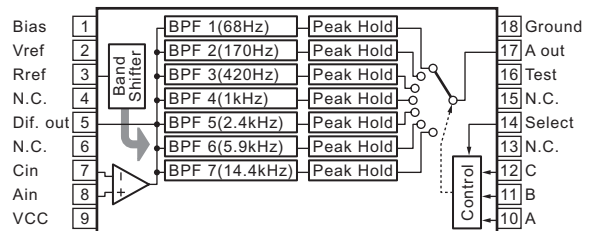
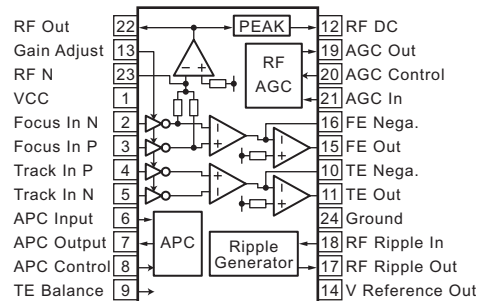
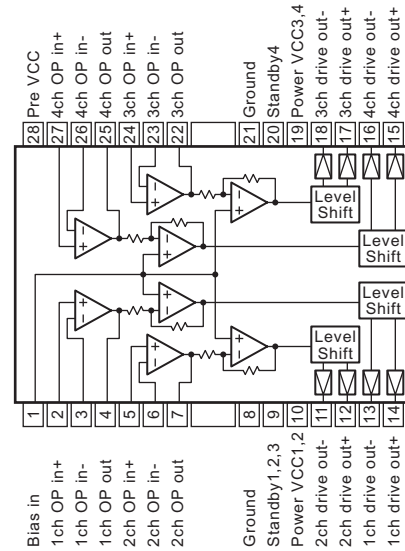
pin 1: NU	: IN: Unused (GND)
pin 2: NU	: IN: Unused (GND)
pin 3: NU	: IN: Unused (GND)
pin 4: NU	: IN: Unused (GND)
pin 5: NU	: IN: Unused (GND)
pin 6: CNVSS	: - : Processor Mode switching pin (Used for FLASH write)
pin 7: NU	: IN: Unused (GND)
pin 8: NU	: IN: Unused (GND)
pin 9: RESET	: IN: External reset signal input pin (external pull-up)
pin 10: XOUT	: - : Main clock oscillation circuit output pin
pin 11: VSS	: - : Power input pin VSS
pin 12: XIN	: - : Main clock oscillation circuit input pin
pin 13: VCC	: - : Power input pin VCC 2.7V-5.5V
pin 14: NU	: IN: Unused (GND)
pin 15: S-BACKUP	: IN: MAIN CPU BACK UP request
pin 16: NU	: IN: Unused (GND)
pin 17: S-CE	: IN: SUB Serial transmit line CE with MAIN CPU
pin 18: NU	: IN: Unused (GND)
pin 19: NU	: IN: Unused (GND)
pin 20: NU	: IN: Unused (GND)
pin 21: NU	: IN: Unused (GND)
pin 22: NU	: IN: Unused (GND)
pin 23: NU	: IN: Unused (GND)
pin 24: S-SO	: O: SUB Serial transmit line SO with MAIN CPU (also used for FLASH write)
pin 25: S-SI	: IN: SUB Serial transmit line with MAIN CPU (also used for FLASH write)
pin 26: S-CLK	: IN: SUB Serial transmit line CLK with MAIN CPU (also used for FLASH write ; Write with external pull-up)
pin 27: S-CE	: O: Used for BUSY FLASH write (OPEN)
pin 28: LCDSO	: O: LCD driver-Control serial data output pin
pin 29: NU	: IN: Unused (GND)
pin 30: LCDCLK	: O: LCD driver-Control serial clock output pin
pin 31: LCDCE	: O: LCD driver-Control chip enable pin
pin 32: LCDINH	: O: LCD driver-Control Unlight Detect pin (L; Indication prohibited)
pin 33: LAMPCHK	: IN: LAMP CHK pin (L; Indication prohibited)
pin 34: EPM	: O: Used for FLASH write (OPEN)
pin 35: NU	: IN: Unused (GND)
pin 36: NU	: IN: Unused (GND)
pin 37: NU	: IN: Unused (GND)
pin 38: NU	: IN: Unused (GND)
pin 39: CE	: O: Used for FLASH write (OPEN)
pin 40: NU	: IN: Unused (GND)
pin 41: NU	: IN: Unused (GND)
pin 42: NU	: IN: Unused (GND)
pin 43: NU	: IN: Unused (GND)
pin 44: NU	: IN: Unused (GND)
pin 45: NU	: IN: Unused (GND)
pin 46: NU	: IN: Unused (GND)
pin 47: NU	: IN: Unused (GND)
pin 48: NU	: IN: Unused (GND)
pin 49: NU	: IN: Unused (GND)
pin 50: NU	: IN: Unused (GND)
pin 51: NU	: IN: Unused (GND)
pin 52: NU	: IN: Unused (GND)
pin 53: NU	: IN: Unused (GND)
pin 54: NU	: IN: Unused (GND)
pin 55: NU	: IN: Unused (GND)
pin 56: NU	: IN: Unused (GND)
pin 57: NU	: IN: Unused (GND)
pin 58: NU	: IN: Unused (GND)
pin 59: NU	: IN: Unused (GND)
pin 60: NU	: IN: Unused (GND)
pin 61: NU	: IN: Unused (GND)
pin 62: NU	: IN: Unused (GND)

pin 63: SEL	: O: Spectrum analyzer control pin
pin 64: SPA-C	: O: Spectrum analyzer BAND select pin C
pin 65: SPA-B	: O: Spectrum analyzer BAND select pin B
pin 66: SPA-A	: O: Spectrum analyzer BAND select pin A
pin 67: V5ON	: IN: Spectrum analyzer IC PWR ON monitor-pin (H; monitor-permit)
pin 68: NU	: IN: Unused (GND)
pin 69: NU	: IN: Unused (GND)
pin 70: NU	: IN: Unused (GND)
pin 71: NU	: IN: Unused (GND)
pin 72: NU	: IN: Unused (GND)
pin 73: NU	: IN: Unused (GND)
pin 74: NU	: IN: Unused (GND)
pin 75: AVSS	: - : A-D Converter power input pin VSS connection
pin 76: SPA-DATA	: IN: Spectrum analyzer data monitor-pin (A/D input)
pin 77: VREF	: - : A-D Converter reference voltage input pin
pin 78: AVCC	: - : A-D Converter power input pin VCC connection
pin 79: NU	: IN: Unused (GND)
pin 80: NU	: IN: Unused (GND)



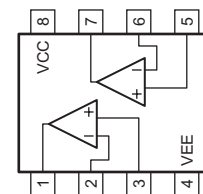
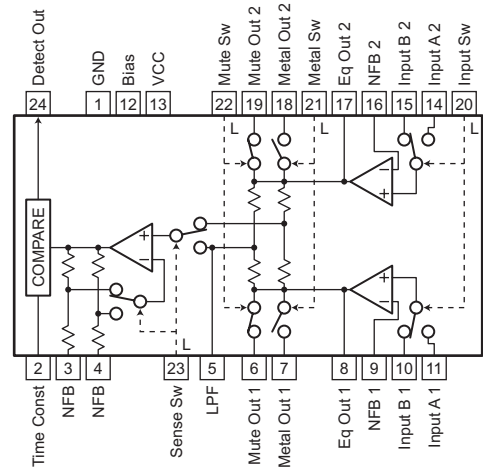
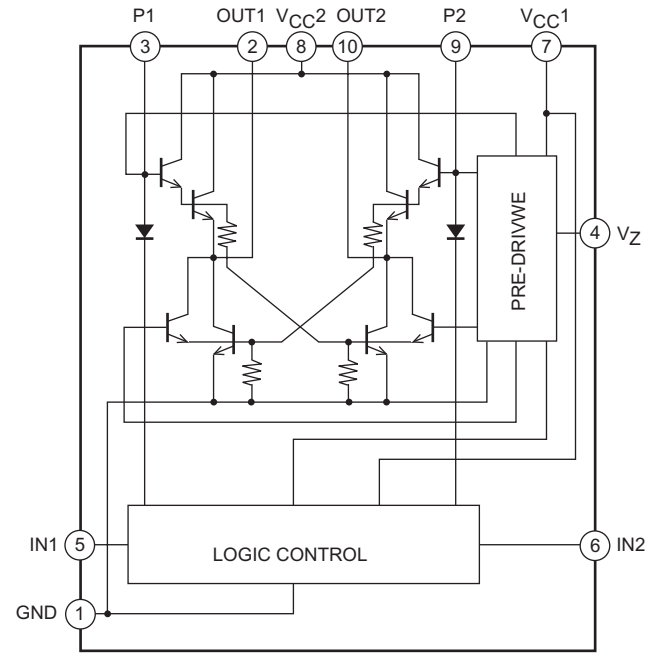
Terminal Description	
pin 1: RESET	: IN: Reset signal input.
pin 2: Micro MD	: IN: Mode select for Microcomputer I/F.
pin 3: D-RAM WE	: O: Write enable signal output to D-RAM.
pin 4: D-RAM RAS	: O: Row address strobe output to D-RAM.
pin 5: Micro DIO	: I/O: Serial data for Microcomputer I/F.
pin 6: Micro CK	: IN: Clock pulse for Microcomputer I/F.
pin 7: D-RAM A 11	: O: Address output to D-RAM.
pin 8: VDD	: - : Positive supply voltage.
pin 9: SDO	: O: Serial data output.
pin 10: B CK O	: O: Bit clock output.
pin 11: LR CK	: O: LR clock output.
pin 12: S DATA	: I/O: Serial data input/output.
pin 13: Bit clock A	: IN: Bit clock input A.
pin 14: LR clock A	: IN: LR clock input A.
pin 15: D-RAM A 0	: O: Address output to D-RAM.
pin 16: D-RAM A 1	: O: Address output to D-RAM.
pin 17: D-RAM A 2	: O: Address output to D-RAM.
pin 18: VDD	: - : Positive supply voltage.
pin 19: STANDBY	: IN: Standby command input.
pin 20: VSS	: - : Negative supply voltage.
pin 21: A VSS	: - : Analog ground.
pin 22: A Vref	: - : Reference voltage for the internal ADC.
pin 23: LO	: O: Left channel audio signal output.
pin 24: A VDD	: - : Positive supply voltage for the Analog section.
pin 25: A VDD	: - : Positive supply voltage for the Analog section.
pin 26: RO	: O: Right channel audio signal output.
pin 27: A Vref	: IN: Reference voltage for the internal ADC.
pin 28: A VSS	: - : Analog ground.
pin 29: TEST	: - : For the Test.
pin 30: TX O	: O: SPDIF output.
pin 31: D-RAM A 3	: O: Address output to D-RAM.
pin 32: D-RAM A 4	: O: Address output to D-RAM.
pin 33: D-RAM A 5	: O: Address output to D-RAM.
pin 34: D-RAM A 6	: O: Address output to D-RAM.
pin 35: VDD	: - : Positive supply voltage.
pin 36: D-RAM A 7	: O: Address output to D-RAM.
pin 37: D-RAM A 8	: O: Address output to D-RAM.
pin 38: D-RAM A 9	: O: Address output to D-RAM.
pin 39: General port 7	: O: General-purpose output port.
pin 40: VSS	: - : Negative supply voltage.
pin 41: D-RAM A 10	: O: Address output to D-RAM.
pin 42: VDD	: - : Positive supply voltage.
pin 43: D-RAM OE	: O: Output enable signal output to D-RAM.
pin 44: D-RAM CAS	: O: Column address strobe output to D-RAM.
pin 45: VSS	: - : Negative supply voltage.
pin 46: D-RAM D 0	: I/O: D-RAM Data input/output.
pin 47: D-RAM D 1	: I/O: D-RAM Data input/output.
pin 48: VSS	: - : Negative supply voltage.
pin 49: D-RAM D 2	: I/O: D-RAM Data input/output.
pin 50: D-RAM D 3	: I/O: D-RAM Data input/output.
pin 51: D-RAM D 4 / Sub Ck	: I/O: D-RAM Data input/output. Sub Code I/F Clock input/output.
pin 52: VDD	: - : Positive supply voltage.
pin 53: D-RAM D 5 / Sub D	: I/O: D-RAM Data input/output. Sub Code I/F Data input.
pin 54: D-RAM D 6 / Sub F	: I/O: D-RAM Data input/output. Sub Code I/F Frame sync input.
pin 55: D-RAM D 7 / Sub B	: I/O: D-RAM Data input/output. Sub Code I/F Block sync input.
pin 56: A VSS	: - : Analog ground.
pin 57: PLL ERROR	: O: PLL error signal output.
pin 58: VCO CNTRL	: IN: VCO control signal input.
pin 59: A VDD	: - : Positive supply voltage for the Analog section.

pin 60: CKI/CKO/PO6	: I/O: External clock input. / Clock pulse output. / General-purpose output port.
pin 61: VDD	: - : Positive supply voltage.
pin 62: X IN	: IN: Crystal connection.
pin 63: X O	: O: Crystal connection.
pin 64: VSS	: - : Negative supply voltage.

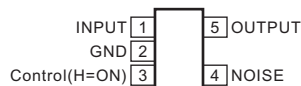


Terminal Description

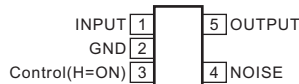
- pin 1: B CK O : O : Bit clock output.
- pin 2: LR CK O : O : LR clock output.
- pin 3: A DATA O : O : Audio data output.
- pin 4: DIGI OUT : O : Digital data output
- pin 5: IPF OUT : O : IP flag output.
- pin 6: VDD : - : Positive supply voltage.
- pin 7: VSS : - : Negative supply voltage.
- pin 8: SB OK O : O : Sub code Q data CRCC OK signal output.
- pin 9: SUB C CK : I/O : Sub code data P to W clock input/output.
- pin 10: SUB C DATA : O : Sub code data P to Q output.
- pin 11: SF SY O : O : Playback frame synchronize signal output.
- pin 12: SB SY O : O : Sub code block synchronize signal output.
- pin 13: IO0 : I/O : Universal input/output port.
- pin 14: IO1 : I/O : Universal input/output port.
- pin 15: P VDD : - : PLL positive supply voltage.
- pin 16: PH DIF : O : EFM-PLCK Phase difference signal output.
- pin 17: T MAX O : O : T max judgment output.
- pin 18: PLL LPF NI : IN : PLL LPF inverted input.
- pin 19: PLL LPF O : O : PLL LPF output.
- pin 20: P Vref : - : PLL reference voltage.
- pin 21: VCO FILTER : O : Loop filter for VCO.
- pin 22: A VSS : - : Analog ground.
- pin 23: SLCO : O : Output of internal DAC for data slice level generation.
- pin 24: RF IN : IN : RF signal input.
- pin 25: A VDD : - : Positive supply voltage for the Analog section.
- pin 26: RF RP CT : IN : RERP center level input.
- pin 27: RF RP Z IN : IN : RF RP signal input for zero cross.
- pin 28: PR RP IN : IN : RF ripple signal input.
- pin 29: F E : IN : Focusing error signal input.
- pin 30: SBAD : IN : Sub beam add signal input.
- pin 31: T E : IN : tracking error signal input.
- pin 32: TE Z IN : IN : Tracking error signal input for zero cross.
- pin 33: Fo EQ OUT : O : Focus equalizer output.
- pin 34: T EQ OUT : O : Tracking equalizer output.
- pin 35: Vref : - : Reference voltage.
- pin 36: RF GAIN : O : RF gain control signal output.
- pin 37: TR B CNT : O : Tracking balance control signal output.
- pin 38: APC ON : O : APC ON signal output.
- pin 39: A VDD : - : Positive supply voltage for the Analog section.
- pin 40: Fe EQ OUT : O : Feed equalizer output.
- pin 41: DISC EQ O : O : Disc equalizer output.
- pin 42: VSS : - : Negative supply voltage.
- pin 43: VDD : - : Positive supply voltage.
- pin 44: TEST : IN : For the test.
- pin 45: X VSS : - : Master clock analog ground.
- pin 46: X IN : IN : Crystal connection.
- pin 47: X O : O : Crystal connection.
- pin 48: X VDD : - : Clock power supply.
- pin 49: VSS : - : Negative supply voltage.
- pin 50: R CH OUT : O : Right channel data output.
- pin 51: VDD : - : Positive supply voltage.
- pin 52: Vref : - : Reference voltage.
- pin 53: L CH OUT : O : Left channel data output.
- pin 54: VSS : - : Negative supply voltage.
- pin 55: Z DET O : O : 1bit DAC zero flag output.
- pin 56: VSS : - : Negative supply voltage.
- pin 57: BUS 0 : I/O : MPU Data input / output.
- pin 58: BUS 1 : I/O : MPU Data input / output.
- pin 59: BUS 2 : I/O : MPU Data input / output.
- pin 60: BUS 3 : I/O : MPU Data input / output.
- pin 61: BU CK IN : IN : MPU Data clock input.
- pin 62: CCEI : IN : Chip enable input.
- pin 63: RSTI : IN : Reset signal input.
- pin 64: VDD : - : Positive supply voltage.



653-0430-36 TAR5S33 Positive Voltage Regurator (3.3V)



653-0430-37 TAR5S25 Positive Voltage Regurator (2.5V)



653-0430-34 BA033FP 3.3V Voltage Regulator

Terminal Description

pin 1 : V IN : Voltage input terminal.
 pin 2 : GND : Ground terminal.
 pin 3 : V OUT : Voltage output terminal.

653-0429-21 KIA7806API 6V Voltage Regulator

Terminal Description

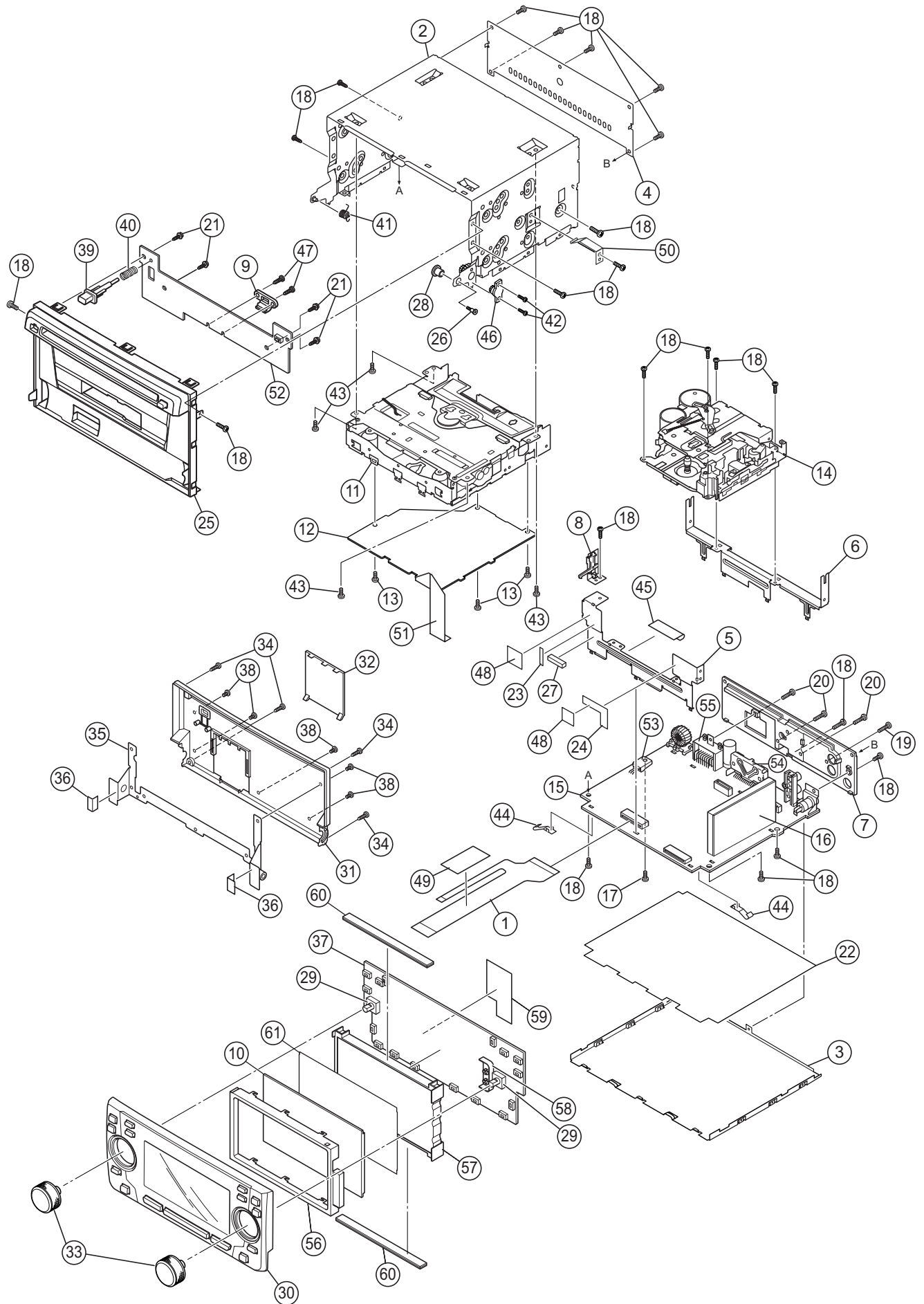
pin 1: Input
 pin 2: Common
 pin 3: Output

EXPLODED VIEW/PARTS LIST

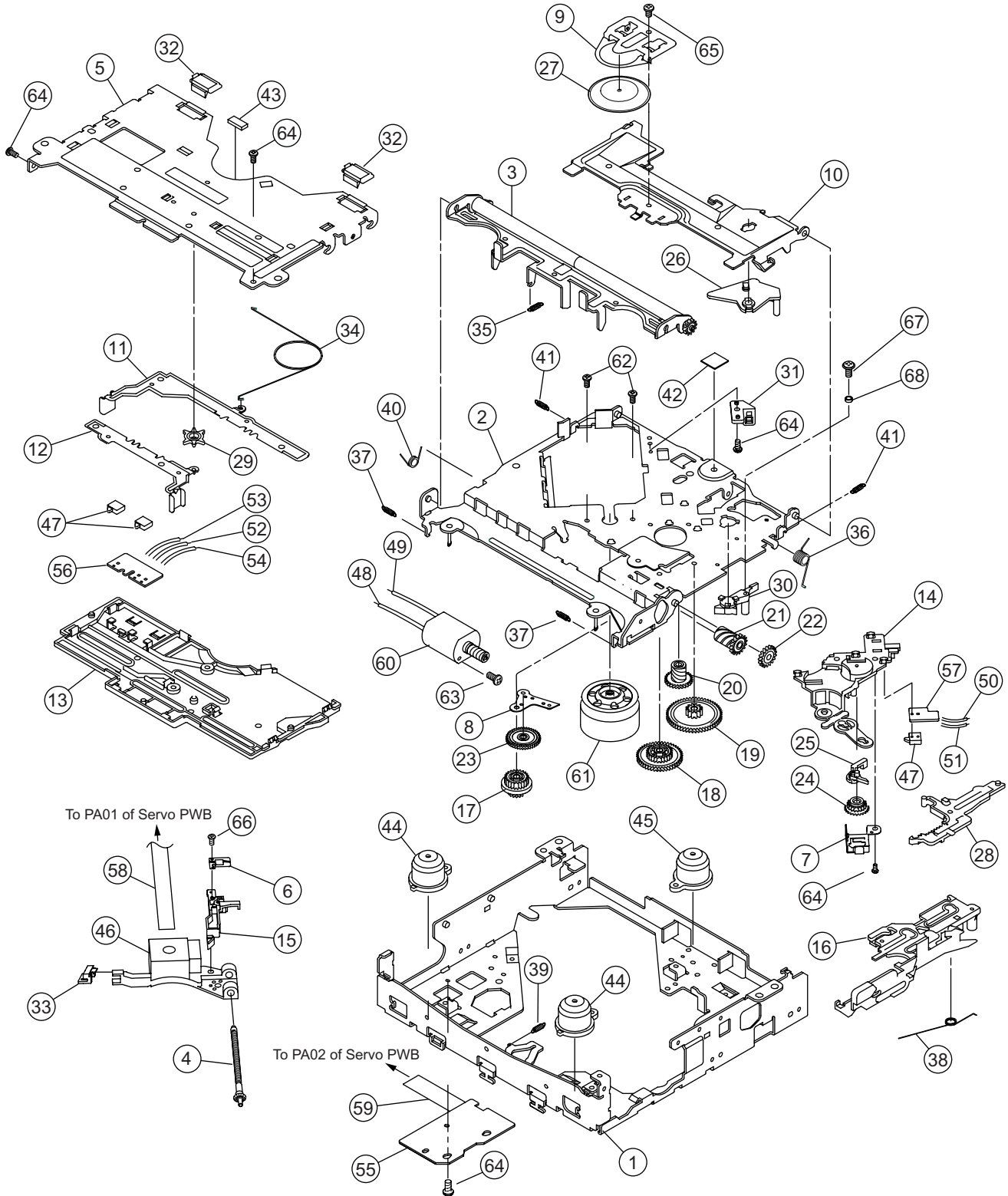
Main section

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	653-0428-01	FLEX PWB (DISP)	1	31	653-0428-27	ESCUTCHEON COVER (B)	1
2	653-0428-02	CHASSIS ASSY	1	32	653-0428-28	COVER (B)	1
3	653-0428-03	BOTTOM COVER	1	33	653-0428-29	KNOB	2
4	653-0428-04	COVER (REAR)	1	34	653-0428-30	SCREW (2X8)	4
5	653-0428-05	DECK BRACKET (FRONT)	1	35	653-0428-31	ES BRACKET ASSY (B)	1
6	653-0428-06	DECK BRACKET(REAR)	1	36	653-0428-32	REFRECTION SHEET	2
7	653-0428-07	HEATSINK (4P)	1	37	-----	DISPLAY PWB	1
8	653-0428-08	BRACKET HOOK ASSY	1	38	653-0428-33	SCREW (2X2.5)	5
9	653-0428-09	INDICATOR (CST)	1	39	653-0428-34	BUTTON (OPEN)	1
10	653-0429-96	LCD	1	40	653-0428-35	SPRING (BUTTON OPEN)	1
11	653-0428-10	CD MECH (CDC03TL1)	1	41	653-0428-36	SPRING (ES OPEN)	1
12	-----	SERVO PWB	1	42	653-0428-37	SCREW (2X5)	2
13	653-0428-11	SCREW (2X4)	3	43	653-0428-38	SCREW (2.6X5)	4
14	653-0428-12	CASSETTE MECH (CDS-802TL1)	1	44	653-0428-39	PLATE SPRING (COVER)	2
15	-----	MAIN PWB	1	45	653-0428-40	CUSHION (20X28)	1
16	653-0428-13 653-0434-01	TUNER PACK (ADB340MP) TUNER PACK (ADB341MP)	1	46	653-0428-41	DAMPER (FRT-E2-300-G1)	1
17	653-0428-14	SCREW (2.6X8)	1	47	653-0428-42	SCREW (2X6)	2
18	653-0428-15	SCREW (2.6X6)	22	48	653-0428-43	CUSHION (B)	2
19	653-0428-16	SCREW (3X8)	1	49	653-0428-44	SHIELD SHEET	1
20	653-0428-17	SCREW (2.6X12)	3	50	653-0428-45	PLATE SPRING	1
21	653-0428-18	SCREW (2X4X5)	4	51	653-0430-39	FLEX PWB(CD)	1
22	653-0428-19	INSULATOR (PWB)	1	52	-----	SUB PWB	1
23	653-0428-20	SHIELD SHEET (DECK-L)	1	53	653-0429-89	BRACKET (REG)	1
24	653-0428-21	SHIELD SHEET (DECK-R)	1	54	653-0429-90 653-0434-07	IC BRACKET (ADB340MP) IC BRACKET (ADB341MP)	1
25	653-0428-22	INNER ES (FP ASSY-C)	1	55	653-0429-91	BRACKET (CONN)	1
26	653-0428-23	SCREW (2.6X3)	1	56	653-0430-10	BRACKET (LCD)	1
27	653-0428-24	SPACER (DECK BKT)	1	57	653-0430-11	HOLDER ASSY (LCD)	1
28	653-0428-25	SPACER (R)	1	58	653-0430-12	HOLDER (LCD)	1
29	653-0430-06	VOLUME (ENCODER)	2	59	653-0430-13	CUSHION (30x18.5)	1
30	653-0428-26 653-0434-02	ESCUTCHEON (ADB340MP) ESCUTCHEON (ADB341MP)	1	60	653-0430-14	INNER CONNECOR	2
				61	653-0430-15	CLOR SHEET (LCD)	1

ADB340MP
ADB341MP



CD mechanism section



NO.	PART NO.	DESCRIPTION	Q'TY
1	653-0430-64	CHASSIS	1
2	653-0430-65	PICK BASE ASSY	1
3	653-0430-66	UP LEVER ASSY	1
4	653-0430-67	FEED SCREW ASSY	1
5	653-0430-68	TOP COVER	1
6	653-0430-69	FEED PLATE	1
7	653-0430-70	SHAFT GUIDE	1
8	653-0430-71	SWING PLATE	1

NO.	PART NO.	DESCRIPTION	Q'TY
9	653-0430-72	CLAMPER PLATE	1
10	653-0430-73	CHUCK ARM	1
11	653-0430-74	DISC ARM L	1
12	653-0430-75	DISC ARM R	1
13	653-0430-76	TOP GUIDE	1
14	653-0430-77	SCREW HOLDER	1
15	653-0430-78	SCREW GUIDE	1
16	653-0430-79	SLIDER A	1

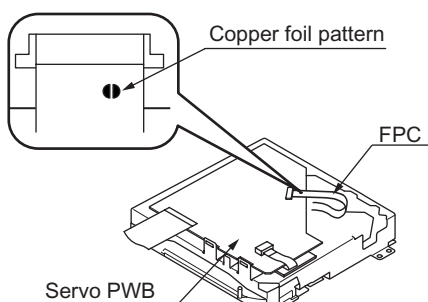
NO.	PART NO.	DESCRIPTION	Q'TY
17	653-0430-80	GEAR A	1
18	653-0430-81	GEAR B	1
19	653-0430-82	GEAR C	1
20	653-0430-83	GEAR D	1
21	653-0430-84	GEAR E	1
22	653-0430-85	GEAR F	1
23	653-0430-86	GEAR H	1
24	653-0430-87	GEAR I	1
25	653-0430-88	LOCK LEVER	1
26	653-0430-89	LEVER STOP	1
27	653-0430-90	CLAMPER	1
28	653-0430-91	SLIDER B	1
29	653-0430-92	GEAR D ARM	1
30	653-0430-93	PB LOCK	1
31	653-0430-94	SCREW HOLDER B	1
32	653-0430-95	HOLDER C ARM	2
33	653-0430-96	PICK SUB COVER	1
34	653-0430-97	DISC ARM SPG	1
35	653-0430-98	UP LEVER SPG	1
36	653-0430-99	CHUCK ARM SPG	1
37	653-0431-01	PICK BASE SPG	2
38	653-0431-02	SLIDER SPG A	1
39	653-0431-03	SUB SPG	1
40	653-0431-04	UP LEVER SUB SPG	1
41	653-0431-05	PICK BASE SPG B	2
42	653-0431-06	DISC SHEET	1

NO.	PART NO.	DESCRIPTION	Q'TY
43	653-0431-07	CHACK SHEET	1
44	653-0431-08	DAMPER F	2
45	653-0431-09	DAMPER R	1
46	653-0431-10	PICK UP-ASSY	1
47	653-0431-11	SWITCH	3
48	-----	MOTOR WIRE A (BLUE)	1
49	-----	MOTOR WIRE B (WHITE)	1
50	-----	SW WIRE A (YELLOW)	1
51	-----	SW WIRE B (ORANGE)	1
52	-----	SW WIRE C (BLACK)	1
53	-----	SW WIRE D (RED)	1
54	-----	SW WIRE E (BROWN)	1
55	653-0431-19	RELAY PWB (WITH OUT COMPONENT)	1
56	-----	SWITCH(A) PWB	1
57	-----	SWITCH(B) PWB	1
58	653-0431-22	FPC (PICK UP)	1
59	653-0431-23	FFC (RELAY)	1
60	653-0431-24	SLED MOTOR-ASSY	1
61	653-0431-25	SPINDLE MOTOR-ASSY	1
62	653-0431-26	PRECISION SCREW	2
63	653-0431-27	MACHINE SCREW (SLED)	1
64	653-0431-28	MACHINE SCREW	5
65	653-0431-29	MACHINE SCREW (FLAT)	1
66	653-0431-30	MACHINE SCREW (PICK UP)	1
67	653-0431-31	SCREW	1
68	653-0431-32	COLLAR	1

STATIC ELECTRICITY

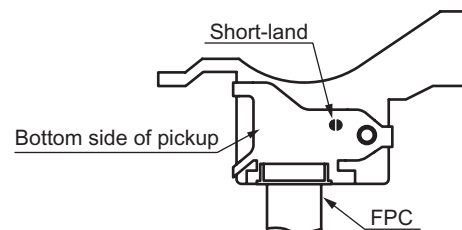
The CD pickup might suffer destruction by static electricity during spare-parts maintenance or replacement, although it is stable when connected to the circuit in the CD unit. The destruction might be caused because the laser diode terminal will be electrically open. To prevent the terminal from being open, do the following steps:

1. When you replace the CD pickup, or remove the CD unit from the car stereo unit for any maintenance purpose, solder the copper foil pattern indicated in Fig.1 below to short-circuit the FPC of the CD unit. Perform your intended maintenance work with the flexible wire short-circuited.



- Fig.1 -

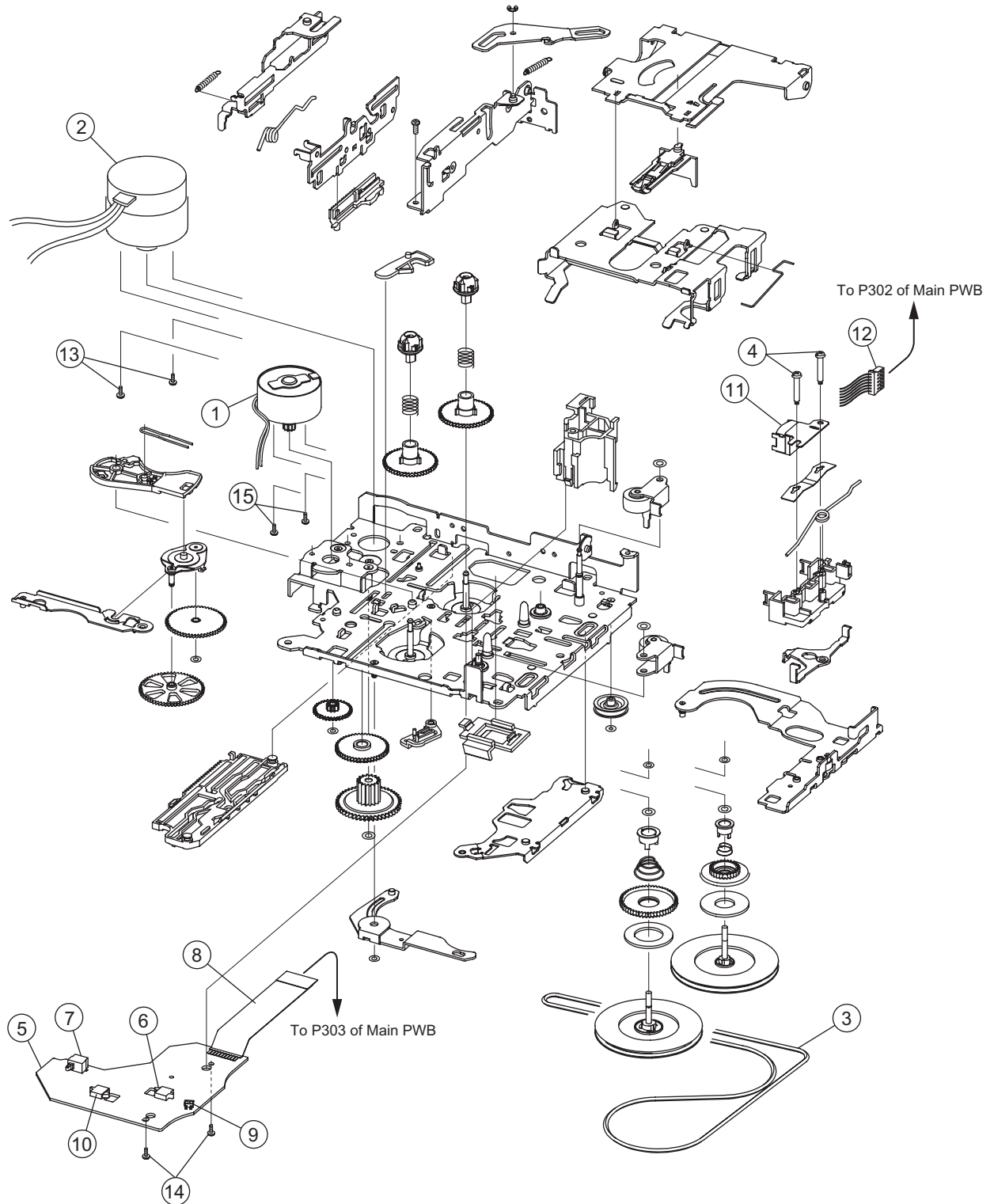
2. If the original CD pickup may possibly be reused, make a short circuit the land of FPC of CD Pickup bottom side(Fig.2).Then remove the CD Pickup and perform the work.



- Fig.2 -

3. The CD Pickup(P/No.653-0431-10), which is supplied as one of the spare parts, is already short-circuited with the copper foil pattern pre-soldered. To handle this CD Pickup, keep the short circuit as it is. Then attach the Pickup to the unit and connect the flexible wire to the connector.
4. After performing the work, eliminate the short circuit by removing the solder at its respective short-circuited area described in 1, 2 and 3 above.

Cassette tape mechanism section



* Parts which are not mentioned in service manual are not supplied.

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	653-0431-33	SUB MOTOR ASSY	1	8	653-0431-42	FLAT CABLE	1
2	653-0431-34	MAIN MOTOR ASSY	1	9	653-0431-43	PHOTP SENSOR	1
3	653-0431-35	BELT	1	10	653-0431-44	SWITCH (STBY)	1
4	653-0431-36	AZIMUTH SCREW	2	11	653-0431-37	HEAD	1
5	-----	REEL PWB	1	12	653-0431-47	EXTENSION LEAD	1
6	653-0431-40	SWITCH (MODE)	1	13	653-0431-27	SCREW (MAIN)	2
7	653-0431-41	SWITCH (CSST IN)	1	14	653-0431-45	SCREW (M2.0x2.5)	2
				15	653-0431-38	SCREW (M1.7x3)	2

ADB340MP
ADB341MP

ELECTRICAL PARTS LIST

Main PWB(B1) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
AJ201	653-0428-57	ANT JACK ASSY	C417	653-0428-59	0.01UF 50V	C710	653-0428-95	100PF 50V
C201	653-0428-58	1000PF 50V	C418	653-0428-59	0.01UF 50V	C711	653-0428-95	100PF 50V
C202	653-0428-59	0.01UF 50V	C419	653-0428-78	820PF 50V	C712	653-0428-95	100PF 50V
C203	653-0428-60	0.047UF 16V	C420	653-0428-78	820PF 50V	C713	653-0428-96	0.22UF 25V
C204	653-0428-61	5PF 50V	C421	653-0428-68	10UF 16V	C714	653-0428-67	0.1UF 16V
C205	653-0428-62	0.027UF 25V (for ADB340MP)	C422	653-0428-79	0.033UF	C715	653-0428-59	0.01UF 50V
	653-0434-06	0.018UF 25V (for ADB341MP)	C423	653-0428-68	10UF 16V	C716	653-0428-97	2.2UF 50V
C206	653-0428-62	0.027UF 25V (for ADB340MP)	C424	653-0428-78	820PF 50V	C717	653-0428-67	0.1UF 16V
	653-0434-06	0.018UF 25V (for ADB341MP)	C425	653-0428-78	820PF 50V	C718	653-0428-58	1000PF 50V
C207	653-0428-58	1000PF 50V (for ADB340MP)	C426	653-0428-59	0.01UF 50V	C720	653-0428-64	220UF 10V
	653-0428-96	0.22UF 25V (for ADB341MP)	C427	653-0428-59	0.01UF 50V	C791	653-0428-59	0.01UF 50V
C208	653-0428-63	33PF 50V	C428	653-0428-77	0.15UF 10V	C792	653-0428-59	0.01UF 50V
C209	653-0428-64	220UF 10V	C429	653-0428-77	0.15UF 10V	C793	653-0428-59	0.01UF 50V
C210	653-0428-59	0.01UF 50V	C430	653-0428-68	10UF 16V	C794	653-0428-59	0.01UF 50V
C211	653-0428-59	0.01UF 50V	C431	653-0428-68	10UF 16V	C795	653-0428-59	0.01UF 50V
C311	653-0428-65	15PF 50V	C432	653-0428-66	0.1UF 16V	D201	653-0428-98	MA-301(MS)AT
C312	653-0428-65	15PF 50V	C433	653-0428-76	220PF 50V	D363	653-0428-99	MTZJ5.6T-C
C313	653-0428-66	0.1UF 16V	C434	653-0428-73	1UF 50V	D364	653-0429-01	MTZJ9.1T-C
C321	653-0428-58	1000PF 50V	C441	653-0428-74	1UF 10V	D365	653-0429-02	MTZJ4.7T-B
C362	653-0428-67	0.1UF 16V	C442	653-0428-74	1UF 10V	D601	653-0429-03	1N5402
C363	653-0428-68	10UF 16V	C455	653-0428-80	100UF 16V	D602	653-0429-04	1SS244T
C364	653-0428-67	0.1UF 16V	C456	653-0428-67	0.1UF 16V	D611	653-0429-01	MTZJ9.1T-C
C365	653-0428-59	0.01UF 50V	C501	653-0428-81	2.2UF 50V	D621	653-0429-05	MTZJ6.2T-C
C366	653-0428-67	0.1UF 16V	C502	653-0428-81	2.2UF 50V	D622	653-0428-99	MTZJ5.6T-C
C371	653-0428-66	0.1UF 16V	C503	653-0428-81	2.2UF 50V	D623	653-0429-06	1SS355T
C372	653-0428-66	0.1UF 16V	C504	653-0428-81	2.2UF 50V	D624	653-0429-06	1SS355T
C373	653-0428-66	0.1UF 16V	C505	653-0428-82	1UF 10V	D641	653-0429-07	MTZJ10T-C
C374	653-0428-66	0.1UF 16V	C506	653-0428-82	1UF 10V	D642	653-0429-01	MTZJ9.1T-C
C375	653-0428-68	10UF 16V	C507	653-0428-82	1UF 10V	D662	653-0429-08	MTZJ8.2T-B
C376	653-0428-68	10UF 16V	C508	653-0428-82	1UF 10V	D664	653-0429-09	MTZJ7.5T-A
C381	653-0428-69	470PF 50V	C509	653-0428-75	47UF 16V	D665	653-0429-10	MTZJ6.8T-B
C382	653-0428-69	470PF 50V	C510	653-0428-83	22UF 16V	D731	653-0429-11	RB521S-30T
C383	653-0428-69	470PF 50V	C511	653-0428-84	0.22UF 50V	ET201	653-0428-13	TUNER PACK (for ADB340MP)
C384	653-0428-69	470PF 50V	C512	653-0428-85	0.1UF 50V		653-0434-01	TUNER PACK (for ADB341MP)
C386	653-0428-70	33UF 10V	C513	653-0428-86	3300UF 16V	F301	653-0429-12	HQS-3H-10000-10
C387	653-0428-70	33UF 10V	C551	653-0428-87	100PF 100V	F701	653-0429-13	HQS-3H-06300-14
C388	653-0428-70	33UF 10V	C552	653-0428-88	0.1UF 50V	IC303	653-0429-14	M30621M8A8E7GP
C389	653-0428-59	0.01UF 50V	C561	653-0428-89	0.47UF 50V	IC351	653-0429-15	BA3430FS-CT
C390	653-0428-59	0.01UF 50V	C581	653-0428-90	2200PF 50V	IC361	653-0429-16	LB1641
C391	653-0428-71	4.7UF 16V	C582	653-0428-90	2200PF 50V	IC371	653-0429-17	BA3834F-CT
C392	653-0428-71	4.7UF 16V	C583	653-0428-90	2200PF 50V	IC401	653-0429-18	LC75410W
C393	653-0428-58	1000PF 50V	C584	653-0428-90	2200PF 50V	IC451	653-0429-19	LA6458ML-CT
C394	653-0428-72	0.1UF 50V	C585	653-0428-90	2200PF 50V	IC452	653-0429-19	LA6458ML-CT
C395	653-0428-68	10UF 16V	C586	653-0428-90	2200PF 50V	IC501	653-0429-20	TA8275H
C396	653-0428-73	1UF 50V	C587	653-0428-90	2200PF 50V	IC631	653-0429-21	KIA7806API
C398	653-0428-70	33UF 10V	C588	653-0428-90	2200PF 50V	IC701	653-0429-22	UPD178078GF-667
C401	653-0428-74	1UF 10V	C601	653-0428-85	0.1UF 50V	J561	653-0429-23	0OHM 1/16W
C402	653-0428-74	1UF 10V	C611	653-0428-91	100UF 10V	J601	653-0429-23	0OHM 1/16W
C403	653-0428-74	1UF 10V	C612	653-0428-67	0.1UF 16V	J604	653-0429-23	0OHM 1/16W
C404	653-0428-74	1UF 10V	C622	653-0428-67	0.1UF 16V	J605	653-0429-24	0OHM 1/8W
C405	653-0428-74	1UF 10V	C623	653-0428-91	100UF 10V	J606	653-0429-24	0OHM 1/8W
C406	653-0428-74	1UF 10V	C624	653-0428-85	0.1UF 50V	J607	653-0429-24	0OHM 1/8W
C407	653-0428-68	10UF 16V	C625	653-0428-67	0.1UF 16V	J608	653-0429-24	0OHM 1/8W
C408	653-0428-75	47UF 16V	C627	653-0428-91	100UF 10V	J609	653-0429-24	0OHM 1/8W
C409	653-0428-68	10UF 16V	C628	653-0428-67	0.1UF 16V	J611	653-0429-24	0OHM 1/8W
C410	653-0428-73	1UF 50V	C631	653-0428-80	100UF 16V	J612	653-0429-24	0OHM 1/8W
C411	653-0428-76	220PF 50V	C632	653-0428-67	0.1UF 16V	J613	653-0429-23	0OHM 1/16W
C412	653-0428-66	0.1UF 16V	C633	653-0428-67	0.1UF 16V	L301	653-0429-25	LK1608-4R7K-CT
C413	653-0428-68	10UF 16V	C634	653-0428-80	100UF 16V	L601	653-0429-26	TT-OL-5047-R2
C414	653-0428-68	10UF 16V	C641	653-0428-67	0.1UF 16V	L701	653-0429-27	EL0305RA-220J-FT
C415	653-0428-77	0.15UF 10V	C643	653-0428-67	0.1UF 16V	L702	653-0429-28	FCM1608K-301T03
C416	653-0428-77	0.15UF 10V	C652	653-0428-67	0.1UF 16V	P302	653-0429-29	SOCKET(TA HEAD)
			C703	653-0428-92	0.1F	P303	653-0429-30	SOCKET(TAPE)
			C705	653-0428-67	0.1UF 16V	P501	653-0429-31	16P SOCKET
			C706	653-0428-67	0.1UF 16V	P502	653-0429-32	RCA SOCKET
			C707	653-0428-93	12PF 50V	P701	653-0429-33	SOCKET(DISP)
			C708	653-0428-94	10PF 50V			
			C709	653-0428-58	1000PF 50V			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
P801	653-0429-34	SOCKET(CD)	R384	653-0429-65	47KOHM 1/16W	R647	653-0429-51	1KOHM 1/16W
Q201	653-0429-35	UMA1NTR	R385	653-0429-57	100OHM 1/16W	R661	653-0429-81	12KOHM 1/10W
Q361	653-0429-36	KTA1272T-O, Y	R386	653-0429-57	100OHM 1/16W	R662	653-0429-71	8.2KOHM 1/16W
Q362	653-0429-37	UN2212TX	R387	653-0429-68	330KOHM 1/16W	R664	653-0429-81	12KOHM 1/10W
Q363	653-0429-38	KTC3199T-Y, GR	R388	653-0429-68	330KOHM 1/16W	R665	653-0429-71	8.2KOHM 1/16W
Q364	653-0429-39	UMD2NTR	R389	653-0429-69	12KOHM 1/16W	R666	653-0429-81	12KOHM 1/10W
Q366	653-0429-38	KTC3199T-Y, GR	R390	653-0429-69	12KOHM 1/16W	R667	653-0429-71	8.2KOHM 1/16W
Q367	653-0429-40	2SC2412KT-Q, R	R393	653-0429-70	330OHM 1/16W	R701	653-0429-51	1KOHM 1/16W
Q542	653-0429-41	UN2216TX	R394	653-0429-57	100OHM 1/16W	R707	653-0429-51	1KOHM 1/16W
Q543	653-0429-41	UN2216TX	R395	653-0429-66	22KOHM 1/16W	R708	653-0429-51	1KOHM 1/16W
Q563	653-0429-42	UN2112TX	R396	653-0429-69	12KOHM 1/16W	R709	653-0429-56	100KOHM 1/16W
Q601	653-0429-43	2SB1326T-Q, R	R401	653-0429-54	5.6KOHM 1/16W	R710	653-0429-51	1KOHM 1/16W
Q602	653-0429-37	UN2212TX	R402	653-0429-71	8.2KOHM 1/16W	R711	653-0429-56	100KOHM 1/16W
Q611	653-0429-44	2SD1858T-Q, R	R403	653-0429-54	5.6KOHM 1/16W	R712	653-0429-50	10KOHM 1/16W
Q612	653-0429-44	2SD1858T-Q, R	R404	653-0429-54	5.6KOHM 1/16W	R713	653-0429-50	10KOHM 1/16W
Q621	653-0429-45	2SD1861T	R405	653-0429-71	8.2KOHM 1/16W	R714	653-0429-65	47KOHM 1/16W
Q622	653-0429-39	UMD2NTR	R406	653-0429-54	5.6KOHM 1/16W	R715	653-0429-65	47KOHM 1/16W
Q624	653-0429-38	KTC3199T-Y, GR	R407	653-0429-50	10KOHM 1/16W	R716	653-0429-56	100KOHM 1/16W
Q631	653-0429-46	2SB1326T-R	R408	653-0429-50	10KOHM 1/16W	R718	653-0429-51	1KOHM 1/16W
Q632	653-0429-37	UN2212TX	R411	653-0429-50	10KOHM 1/16W	R719	653-0429-51	1KOHM 1/16W
Q641	653-0429-39	UMD2NTR	R412	653-0429-50	10KOHM 1/16W	R720	653-0429-66	22KOHM 1/16W
Q643	653-0429-44	2SD1858T-Q, R	R413	653-0429-72	68KOHM 1/16W	R721	653-0429-56	100KOHM 1/16W
Q644	653-0429-37	UN2212TX	R414	653-0429-52	4.7KOHM 1/16W	R722	653-0429-66	22KOHM 1/16W
Q645	653-0429-37	UN2212TX	R415	653-0429-72	68KOHM 1/16W	R723	653-0429-51	1KOHM 1/16W
Q646	653-0429-36	KTA1272T-O, Y	R416	653-0429-52	4.7KOHM 1/16W	R724	653-0429-82	2.2KOHM 1/16W
Q661	653-0429-40	2SC2412KT-Q, R	R417	653-0429-72	68KOHM 1/16W	R725	653-0429-51	1KOHM 1/16W
Q662	653-0429-40	2SC2412KT-Q, R	R431	653-0429-73	39KOHM 1/16W	R726	653-0429-83	3.3KOHM 1/16W
Q663	653-0429-40	2SC2412KT-Q, R	R432	653-0429-50	10KOHM 1/16W	R727	653-0429-51	1KOHM 1/16W
Q701	653-0429-47	2SD2351T106-V,	R433	653-0429-73	39KOHM 1/16W	R728	653-0429-51	1KOHM 1/16W
Q702	653-0429-40	2SC2412KT-Q, R	R434	653-0429-50	10KOHM 1/16W	R729	653-0429-63	1KOHM 1/6W
Q703	653-0429-48	UMZ7NTR	R441	653-0429-50	10KOHM 1/16W	R730	653-0429-51	1KOHM 1/16W
Q741	653-0429-37	UN2212TX	R442	653-0429-50	10KOHM 1/16W	R731	653-0429-56	100KOHM 1/16W
Q762	653-0429-49	DTA143ZKAT	R443	653-0429-50	10KOHM 1/16W	R732	653-0429-56	100KOHM 1/16W
R201	653-0429-50	10KOHM 1/16W	R444	653-0429-50	10KOHM 1/16W	R733	653-0429-56	100KOHM 1/16W
R202	653-0429-51	1KOHM 1/16W	R445	653-0429-50	10KOHM 1/16W	R734	653-0429-51	1KOHM 1/16W
R203	653-0429-52	4.7KOHM 1/16W	R446	653-0429-50	10KOHM 1/16W	R736	653-0429-66	22KOHM 1/16W
R204	653-0429-53	10OHM 1/16W	R447	653-0429-50	10KOHM 1/16W	R737	653-0429-50	10KOHM 1/16W
R206	653-0429-54	5.6KOHM 1/16W	R448	653-0429-50	10KOHM 1/16W	R738	653-0429-66	22KOHM 1/16W
R208	653-0429-55	0.022UF 25V (for ADB340MP)	R501	653-0429-51	1KOHM 1/16W	R739	653-0429-51	1KOHM 1/16W
R313	653-0429-56	100KOHM 1/16W	R502	653-0429-56	100KOHM 1/16W	R740	653-0429-50	10KOHM 1/16W
R321	653-0429-50	10KOHM 1/16W	R503	653-0429-56	100KOHM 1/16W	R743	653-0429-56	100KOHM 1/16W
R331	653-0429-57	100OHM 1/16W	R504	653-0429-51	1KOHM 1/16W	R744	653-0429-67	1KOHMX4
R336	653-0429-51	1KOHM 1/16W	R505	653-0429-51	1KOHM 1/16W	R745	653-0429-51	1KOHM 1/16W
R337	653-0429-51	1KOHM 1/16W	R506	653-0429-56	100KOHM 1/16W	R746	653-0429-51	1KOHM 1/16W
R338	653-0429-51	1KOHM 1/16W	R507	653-0429-56	100KOHM 1/16W	R747	653-0429-51	1KOHM 1/16W
R339	653-0429-23	0OHM 1/16W	R508	653-0429-51	1KOHM 1/16W	R748	653-0429-56	100KOHM 1/16W
R340	653-0429-51	1KOHM 1/16W	R509	653-0429-51	1KOHM 1/16W	R749	653-0429-56	100KOHM 1/16W
R341	653-0429-51	1KOHM 1/16W	R543	653-0429-74	1KOHM 1/10W	R751	653-0429-56	100KOHM 1/16W
R342	653-0429-51	1KOHM 1/16W	R544	653-0429-74	1KOHM 1/10W	R752	653-0429-51	1KOHM 1/16W
R343	653-0429-51	1KOHM 1/16W	R545	653-0429-75	470OHM 1/10W	R753	653-0429-51	1KOHM 1/16W
R352	653-0429-23	0OHM 1/16W	R546	653-0429-75	470OHM 1/10W	R754	653-0429-51	1KOHM 1/16W
R353	653-0429-51	1KOHM 1/16W	R547	653-0429-75	470OHM 1/10W	R755	653-0429-65	47KOHM 1/16W
R361	653-0429-58	22KOHM 1/10W	R548	653-0429-75	470OHM 1/10W	R756	653-0429-65	47KOHM 1/16W
R362	653-0429-59	2.2KOHM 1/10W	R561	653-0429-51	1KOHM 1/16W	R758	653-0429-51	1KOHM 1/16W
R363	653-0429-60	8.2KOHM 1/10W	R601	653-0429-65	47KOHM 1/16W	R759	653-0429-51	1KOHM 1/16W
R364	653-0429-61	5.6OHM 1/2W	R602	653-0429-76	1.5KOHM 1/6W	R760	653-0429-84	10KOHMX4
R365	653-0429-62	560OHM 1/10W	R603	653-0429-77	1.8KOHM 1/6W	R762	653-0429-51	1KOHM 1/16W
R366	653-0429-63	1KOHM 1/6W	R604	653-0429-77	1.8KOHM 1/6W	R765	653-0429-85	390OHM 1/10W
R367	653-0429-64	270OHM 1/10W	R611	653-0429-78	470OHM 1/6W	R767	653-0429-50	10KOHM 1/16W
R368	653-0429-65	47KOHM 1/16W	R612	653-0429-70	330OHM 1/16W	R768	653-0429-50	10KOHM 1/16W
R371	653-0429-56	100KOHM 1/16W	R621	653-0429-79	18KOHM 1/16W	R771	653-0429-56	100KOHM 1/16W (for ADB341MP)
R372	653-0429-50	10KOHM 1/16W	R622	653-0429-79	18KOHM 1/16W	R774	653-0429-56	100KOHM 1/16W
R373	653-0429-51	1KOHM 1/16W	R631	653-0429-77	1.8KOHM 1/6W	R777	653-0429-65	47KOHM 1/16W
R374	653-0429-66	22KOHM 1/16W	R632	653-0429-77	1.8KOHM 1/6W	R781	653-0429-51	1KOHM 1/16W
R375	653-0429-66	22KOHM 1/16W	R633	653-0429-77	1.8KOHM 1/6W	R783	653-0429-56	100KOHM 1/16W (for ADB340MP)
R376	653-0429-67	1KOHMX4	R634	653-0429-65	47KOHM 1/16W	R784	653-0429-56	100KOHM 1/16W
R381	653-0429-65	47KOHM 1/16W	R641	653-0429-80	680OHM 1/6W	R787	653-0429-65	47KOHM 1/16W
R382	653-0429-65	47KOHM 1/16W	R643	653-0429-65	47KOHM 1/16W	R788	653-0429-65	47KOHM 1/16W
R383	653-0429-65	47KOHM 1/16W	R644	653-0429-77	1.8KOHM 1/6W			
			R645	653-0429-77	1.8KOHM 1/6W			

REF No.	PART No.	DESCRIPTION
R789	653-0429-56	100KOHM 1/16W
R790	653-0429-56	100KOHM 1/16W
R791	653-0429-53	100OHM 1/16W
R792	653-0429-56	100KOHM 1/16W
R793	653-0429-51	1KOHM 1/16W
R794	653-0429-51	1KOHM 1/16W

REF No.	PART No.	DESCRIPTION
R795	653-0429-56	100KOHM 1/16W
R796	653-0429-56	100KOHM 1/16W
R798	653-0429-56	100KOHM 1/16W
R799	653-0429-86	56KOHM 1/16W
R801	653-0429-24	0OHM 1/8W
R802	653-0429-23	0OHM 1/16W

REF No.	PART No.	DESCRIPTION
TH651	653-0429-87	PTC-B59975-C120-A54
PWB	653-0429-88	PWB(WITHOUT COMPONENT)

Sub PWB(B2) section

REF No.	PART No.	DESCRIPTION
DC02	653-0429-95	HPY1105W-TR-CT
DC03	653-0429-95	HPY1105W-TR-CT
DC04	653-0429-95	HPY1105W-TR-CT
DC05	653-0429-95	HPY1105W-TR-CT
DC06	653-0429-95	HPY1105W-TR-CT

REF No.	PART No.	DESCRIPTION
PC01	653-0430-60	SOCKET(MAIN)
RC01	653-0429-75	470OHM 1/10W
RC02	653-0430-61	150OHM 1/10W
RC03	653-0430-61	150OHM 1/10W
RC04	653-0430-61	150OHM 1/10W

REF No.	PART No.	DESCRIPTION
SWC01	653-0430-62	SKQCAC-260G
PWB	653-0430-63	PWB(WITHOUT COMPONENT)

Display PWB(B3) section

REF No.	PART No.	DESCRIPTION
C901	653-0428-58	1000PF 50V
C902	653-0428-67	0.1UF 16V
C903	653-0428-60	0.047UF 16V
C904	653-0428-60	0.047UF 16V
C905	653-0428-60	0.047UF 16V
D902	653-0429-92	BZX84-C5V1
D905	653-0429-93	UDZS8.2B
D912	653-0429-94	NSPW300BS-BR, BS
D913	653-0429-94	NSPW300BS-BR, BS
D914	653-0429-95	HPY1105W-TR-CT
H901	653-0429-96	LCD
IC901	653-0429-97	LC75878W
P901	653-0429-98	SOCKET(MAIN)
PL901	653-0429-99	PL ASSY 171
PL902	653-0429-99	PL ASSY 171
PL903	653-0429-99	PL ASSY 171
PL904	653-0429-99	PL ASSY 171
PL905	653-0429-99	PL ASSY 171
PL906	653-0429-99	PL ASSY 171
R901	653-0429-74	1KOHM 1/10W
R902	653-0429-74	1KOHM 1/10W
R903	653-0429-74	1KOHM 1/10W

REF No.	PART No.	DESCRIPTION
R904	653-0429-74	1KOHM 1/10W
R905	653-0429-65	47KOHM 1/16W
R906	653-0429-56	100KOHM 1/16W
R907	653-0430-01	1.8KOHM 1/16W
R908	653-0429-74	1KOHM 1/10W
R911	653-0430-02	330OHM 1/10W
R913	653-0430-02	330OHM 1/10W
R919	653-0430-03	3.9KOHM 1/10W
R941	653-0430-04	1.2KOHM 1/16W
R942	653-0430-04	1.2KOHM 1/16W
R943	653-0430-01	1.8KOHM 1/16W
R944	653-0430-05	2.7KOHM 1/16W
R945	653-0429-52	4.7KOHM 1/16W
R946	653-0429-71	8.2KOHM 1/16W
R947	653-0429-79	18KOHM 1/16W
R948	653-0430-04	1.2KOHM 1/16W
R949	653-0430-04	1.2KOHM 1/16W
R950	653-0430-01	1.8KOHM 1/16W
R951	653-0430-05	2.7KOHM 1/16W
R952	653-0429-52	4.7KOHM 1/16W
R953	653-0429-71	8.2KOHM 1/16W
R954	653-0429-51	1KOHM 1/16W
R955	653-0429-51	1KOHM 1/16W
R956	653-0429-51	1KOHM 1/16W

REF No.	PART No.	DESCRIPTION
R957	653-0429-51	1KOHM 1/16W
SW901	653-0430-06	VOLUME
SW902	653-0430-06	VOLUME
SW903	653-0430-07	DTSM-31S-T/R-CT
SW904	653-0430-07	DTSM-31S-T/R-CT
SW905	653-0430-07	DTSM-31S-T/R-CT
SW906	653-0430-07	DTSM-31S-T/R-CT
SW907	653-0430-07	DTSM-31S-T/R-CT
SW908	653-0430-07	DTSM-31S-T/R-CT
SW909	653-0430-07	DTSM-31S-T/R-CT
SW910	653-0430-07	DTSM-31S-T/R-CT
SW911	653-0430-07	DTSM-31S-T/R-CT
SW912	653-0430-07	DTSM-31S-T/R-CT
SW913	653-0430-07	DTSM-31S-T/R-CT
SW914	653-0430-07	DTSM-31S-T/R-CT
SW915	653-0430-07	DTSM-31S-T/R-CT
SW916	653-0430-07	DTSM-31S-T/R-CT
SW917	653-0430-07	DTSM-31S-T/R-CT
SW918	653-0430-07	DTSM-31S-T/R-CT
SW919	653-0430-08	SOT-152HST-CT
PWB	653-0430-09	PWB(WITHOUT COMPONENT)

Servo PWB(B4) section

REF No.	PART No.	DESCRIPTION
CA01	653-0430-16	100uF 4V
CA02	653-0430-17	6800pF 50V
CA03	653-0428-74	1uF 10V
CA04	653-0428-66	0.1uF 16V
CA05	653-0428-66	0.1uF 16V
CA06	653-0430-18	4pF 50V
CA07	653-0430-19	56pF 50V
CA08	653-0428-67	0.1uF 16V
CA21	653-0428-67	0.1uF 16V
CA22	653-0428-67	0.1uF 16V
CA23	653-0430-20	47pF 50V
CA24	653-0430-21	0.015uF 25V
CA26	653-0428-59	0.01uF 50V
CA27	653-0430-22	2700pF 50V
CA28	653-0428-59	0.01uF 50V
CA29	653-0428-67	0.1uF 16V
CA31	653-0428-79	333 B
CA32	653-0428-79	333 B
CA33	653-0428-60	0.047uF 16V
CA34	653-0428-69	470pF 50V
CA35	653-0428-69	470pF 50V
CA36	653-0428-60	0.047uF 16V

REF No.	PART No.	DESCRIPTION
CA37	653-0428-60	0.047uF 16V
CA38	653-0428-60	0.047uF 16V
CA39	653-0428-60	0.047uF 16V
CA40	653-0428-67	0.1uF 16V
CA41	653-0428-67	0.1uF 16V
CA44	653-0430-16	100uF 4V
CA45	653-0430-16	100uF 4V
CA46	653-0428-67	0.1uF 16V
CA47	653-0430-16	100uF 4V
CA48	653-0428-67	0.1uF 16V
CA50	653-0428-90	2200pF 50V
CA51	653-0428-90	2200pF 50V
CA61	653-0430-23	100uF 10V
CA62	653-0428-67	0.1uF 16V
CA68	653-0428-67	0.1uF 16V
CA72	653-0428-67	0.1uF 16V
CA73	653-0428-74	1uF 10V
CA74	653-0430-24	47uF 6.3V
CA75	653-0428-67	0.1uF 16V
CA77	653-0430-25	100uF 10V
CB02	653-0428-67	0.1uF 16V
CB03	653-0430-26	47uF 4V

REF No.	PART No.	DESCRIPTION
CB04	653-0428-67	0.1uF 16V
CB05	653-0430-26	47uF 4V
CB06	653-0430-26	47uF 4V
CB07	653-0430-26	47uF 4V
CB08	653-0428-67	0.1uF 16V
CB09	653-0428-67	0.1uF 16V
CB10	653-0430-27	0.33uF 10V
CB11	653-0428-67	0.1uF 16V
CB14	653-0428-67	0.1uF 16V
CB16	653-0428-76	220pF 50V
CB51	653-0430-26	47uF 4V
CB52	653-0428-74	1uF 10V
CB53	653-0428-59	0.01uF 50V
CB54	653-0428-74	1uF 10V
CB55	653-0430-26	47uF 4V
CB56	653-0428-74	1uF 10V
CB57	653-0428-59	0.01uF 50V
CB58	653-0428-74	1uF 10V
CB59	653-0430-26	47uF 4V
CB60	653-0428-74	1uF 10V
CB61	653-0428-59	0.01uF 50V
CB62	653-0428-74	1uF 10V

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
DA01	653-0430-29	DAP202KT146	RA04	653-0429-66	22k ohm 1/16W	RA71	653-0430-51	82ohm 1/16W
FB01	653-0430-30	RTSV16.93MG	RA05	653-0430-47	120k ohm 1/16W	RA72	653-0430-52	560ohm 1/16W
ICA01	653-0430-31	TA2157FN-CT	RA06	653-0430-47	120k ohm 1/16W	RA94	653-0429-23	0ohm 1/16W
ICA02	653-0430-32	TC94A14FA-CT	RA07	653-0429-56	100k ohm 1/16W	RA95	653-0429-23	0ohm 1/16W
ICA03	653-0430-33	BA5983FM-CT	RA08	653-0429-56	100k ohm 1/16W	RB02	653-0430-53	MNR14E0ABJ184-CT
ICA04	653-0430-34	BA033FP-CT	RA09	653-0429-73	39k ohm 1/16W	RB03	653-0430-54	MNR14E0ABJ104-CT
ICB01	653-0430-35	TC94A20F-010-CT	RA10	653-0429-57	100ohm 1/16W	RB04	653-0430-53	MNR14E0ABJ184-CT
ICB03	653-0430-36	TAR5S33-CT	RA11	653-0429-50	10k ohm 1/16W	RB05	653-0430-55	180k ohm 1/16W
ICB04	653-0430-37	TAR5S25-CT	RA12	653-0429-82	2.2k ohm 1/16W	RB06	653-0429-56	100k ohm 1/16W
ICB05	653-0430-37	TAR5S25-CT	RA13	653-0429-51	1k ohm 1/16W	RB07	653-0429-51	1k ohm 1/16W
JA23	653-0429-23	0ohm 1/16W	RA14	653-0429-66	22k ohm 1/16W	RB08	653-0429-51	1k ohm 1/16W
JA24	653-0430-38	0ohm 1/10W	RA21	653-0429-50	10k ohm 1/16W	RB09	653-0429-70	330ohm 1/16W
JA32	653-0429-23	0ohm 1/16W	RA22	653-0429-79	18k ohm 1/16W	RB10	653-0429-70	330ohm 1/16W
JB01	653-0429-23	0ohm 1/16W	RA23	653-0429-54	5.6k ohm 1/16W	RB11	653-0430-56	1M ohm 1/16W
LA01	653-0429-28	FCM1608K-301T03	RA24	653-0429-65	47k ohm 1/16W	RB12	653-0430-57	1.5k ohm 1/16W
LA21	653-0429-23	0ohm 1/16W	RA25	653-0430-48	220k ohm 1/16W	RB13	653-0430-58	100k ohm 1/10W
LA22	653-0429-28	FCM1608K-301T03	RA26	653-0430-49	2.2Mohm 1/16W	RB14	653-0429-57	100ohm 1/16W
LB01	653-0429-28	FCM1608K-301T03	RA27	653-0430-50	15k ohm 1/16W	RB31	653-0430-54	MNR14E0ABJ104-CT
LB03	653-0429-28	FCM1608K-301T03	RA28	653-0429-50	10k ohm 1/16W	RB32	653-0430-54	MNR14E0ABJ104-CT
LB31	653-0429-23	0ohm 1/16W	RA29	653-0429-23	0ohm 1/16W	RB33	653-0430-54	MNR14E0ABJ104-CT
NA01	653-0430-39	FLAT WIRE(25P)	RA30	653-0429-23	0ohm 1/16W	PWB	653-0430-59	PWB(WITHOUT COMPONENT)
PA01	653-0430-40	15P	RA31	653-0429-23	0ohm 1/16W			
PA02	653-0430-41	8P	RA32	653-0429-23	0ohm 1/16W			
QA01	653-0430-42	2SB815T-B6	RA33	653-0429-83	3.3k ohm 1/16W			
QA02	653-0430-43	2SD2537T-V	RA37	653-0429-82	2.2k ohm 1/16W			
RA01	653-0430-44	91ohm 1/16W	RA41	653-0429-23	0ohm 1/16W			
RA02	653-0430-45	10ohm 1/10W	RA65	653-0430-50	15k ohm 1/16W			
RA03	653-0430-46	820ohm 1/16W	RA66	653-0430-50	15k ohm 1/16W			

Switch-A PWB(B5) section (CD mechanism)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
SW1	653-0431-11	INSW	PWB	653-0431-20	PWB(WITHOUT COMPONENT)
SW2	653-0431-11	12CM			

Switch-B PWB(B6) section (CD mechanism)

REF No.	PART No.	DESCRIPTION
SW3	653-0431-11	INNER
PWB	653-0431-21	PWB(WITHOUT COMPONENT)

Reel PWB(B7) section (Cassette tape mechanism)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
Q1	653-0431-43	PH SENSOR	S2	653-0431-44	ST-BY	PWB	653-0431-39	PWB(WITHOUT COMPONENT)
S1	653-0431-41	CA-IN	S3	653-0431-40	MODE			

CIRCUIT DIAGRAM

Main PWB(B1) section 1/3
Reel PWB(B7) section

Voltage measurement conditions:

BATT,ACC 14.4V
FM 98.1MHz/66dBu Non-Mod Vol:1
AM 999kHz/74dBu Non-Mod Vol:1
TAPE Test tape:MTT-212EN Vol:1
CD Test CD:YEDS-7 Vol:1

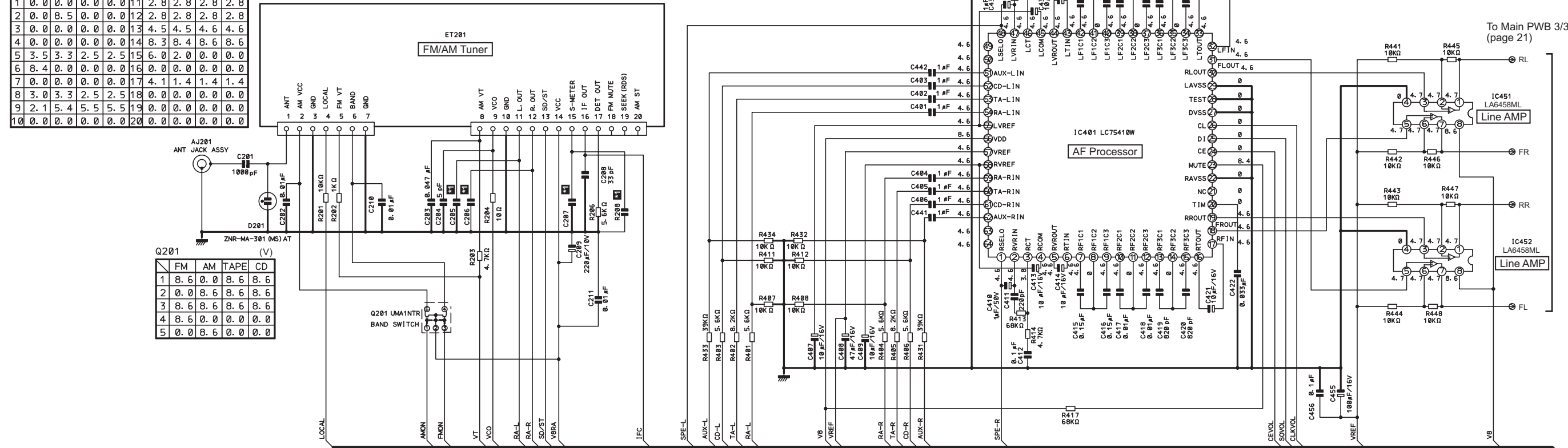
ET201 (V)

	FM	AM	TAPE	CD	FM	AM	TAPE	CD
1	0.0	0.0	0.0	0.0	11	2.8	2.8	2.8
2	0.0	8.5	0.0	0.0	12	2.8	2.8	2.8
3	0.0	0.0	0.0	0.0	13	4.5	4.5	4.6
4	0.0	0.0	0.0	0.0	14	8.3	8.4	8.6
5	3.5	3.3	2.5	2.5	15	6.0	2.0	0.0
6	8.4	0.0	0.0	0.0	16	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	17	4.1	1.4	1.4
8	3.0	3.3	2.5	2.5	18	0.0	0.0	0.0
9	2.1	5.4	5.5	5.5	19	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0

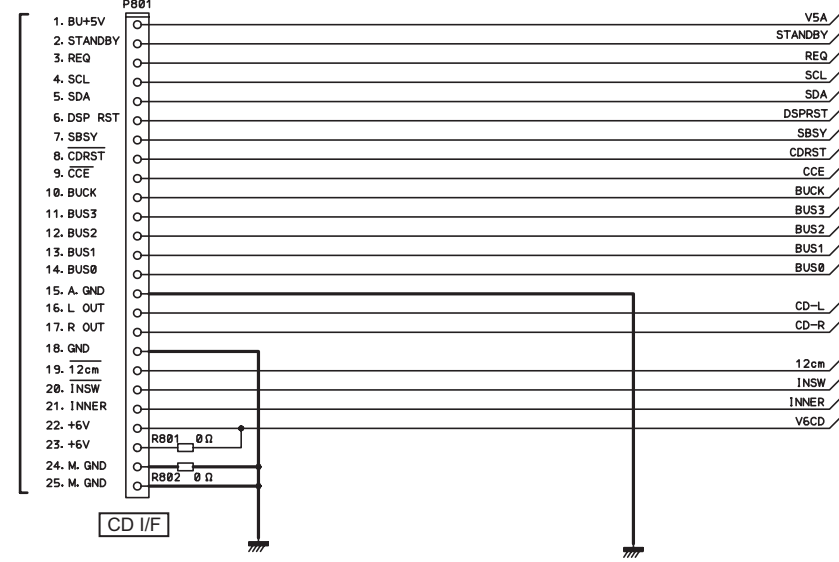
Q201 (V)

	FM	AM	TAPE	CD
1	8.6	0.0	8.6	8.6
2	0.0	8.6	8.6	8.6
3	8.6	8.6	8.6	8.6
4	8.6	0.0	0.0	0.0
5	0.0	8.6	0.0	0.0

	ADB340MP	ADB341MP
C205,C206	0.027uF	0.018uF
C207	1000pF	0.22uF
R208	0.022uF	Not use



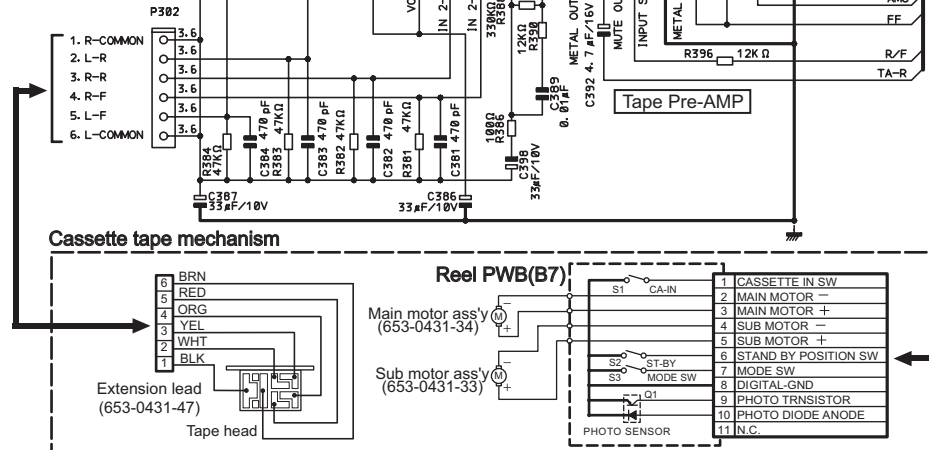
To Servo PWB (page 26)



P801 (V)

	FM	AM	TAPE	CD	FM	AM	TAPE	CD	FM	AM	TAPE	CD
1	5.0	5.0	5.0	5.0	11	0.0	0.0	0.0	21	0.0	0.0	0.0
2	5.1	5.1	5.0	0.0	12	0.0	0.0	0.0	22	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	23	0.0	0.0	0.0
4	4.6	4.6	4.6	4.7	14	0.0	0.0	0.0	24	0.0	0.0	0.0
5	4.6	4.6	4.6	4.7	15	0.0	0.0	0.0	25	0.0	0.0	0.0
6	4.9	5.1	5.1	5.1	16	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0				
8	0.0	0.0	0.0	4.9	18	0.0	0.0	0.0				
9	0.0	0.0	0.0	5.1	19	4.8	4.8	4.8				
10	0.0	0.0	0.0	5.0	20	4.8	4.8	4.8				

To Tape head (Cassette tape mech)



IC351 (V)

	FM	AM	TAPE	CD	FM	AM	TAPE	CD	FM	AM	TAPE	CD
1	0.0	0.0	0.0	0.0	11	3.6	3.6	3.6	21	0.0	0.0	0.0
2	8.4	8.4	2.6	8.7	12	3.6	3.6	3.6	22	2.0	2.0	2.0
3	0.0	0.0	0.0	3.6	13	8.6	8.6	8.6	23	2.0	2.0	2.0
4	3.6	4.6	3.6	3.6	14	3.6	3.6	3.6	24	4.6	4.6	4.7
5	3.6	4.6	3.6	3.6	15	3.6	3.6	3.6				
6	2.9	5.1	3.0	3.0	16	3.6	3.6	3.6				
7	0.0	0.0	0.7	0.5	17	3.6	3.6	3.6				
8	3.6	3.6	3.6	3.7	18	0.0	0.0	0.0				
9	3.6	3.6	3.6	3.7	19	2.9	3.0	3.0				
10	3.6	3.6	3.6	3.7	20	0.6	0.6	0.6				

P303 (V)

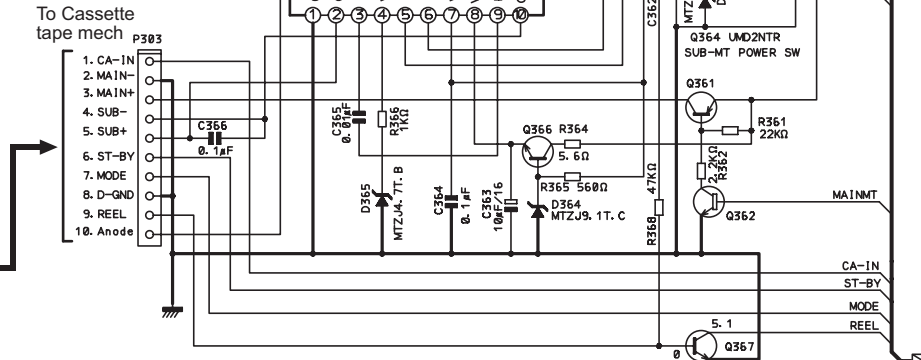
	FM	AM	TAPE	CD
1	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0
3	0.0	0.0	14.4	0.0
4	0.0	0.0	0.5	0.0
5	0.0	0.0	0.5	0.0
6	4.6	4.6	0.0	4.7
7	0.0	0.0	0.0	4.7
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	1.2	0.0

Q364 (V)

	FM	AM	TAPE	CD
1	0.0	0.0	0.0	0.0
2	0.0	0.0	5.1	0.0
3	0.0	0.0	14.4	0.0
4	14.4	14.4	14.4	14.4
5	14.4	14.4	0.0	14.4
6	14.4	14.4	0.0	14.4

Q363 (V)

	FM	AM	TAPE	CD
E	0.0	0.0	5.1	0.0
C	0.0	0.0	14.4	0.0
B	0.0	0.0	5.8	0.0



IC361 (V)

	FM	AM	TAPE	CD
1	0.0	0.0	0.0	0.0
2	0.5	0.5	0.5	0.5
3	0.0	0.0	0.7	0.0
4	0.0	0.0	0.7	0.0
5	0.0	0.0	3.4	0.0
6	0.0	0.0	3.3	0.0
7	0.0	0.0	14.4	0.0
8	8.9	8.9	9.0	0.0
9	0.0	0.0	0.7	0.0
10	0.0	0.0	0.5	0.0

Q366 (V)

	FM	AM	TAPE	CD
E	8.9	8.9	8.9	0.0
C	14.4	14.4	14.4	14.4
B	0.0	0.0	9.4	0.0

Q361 (V)

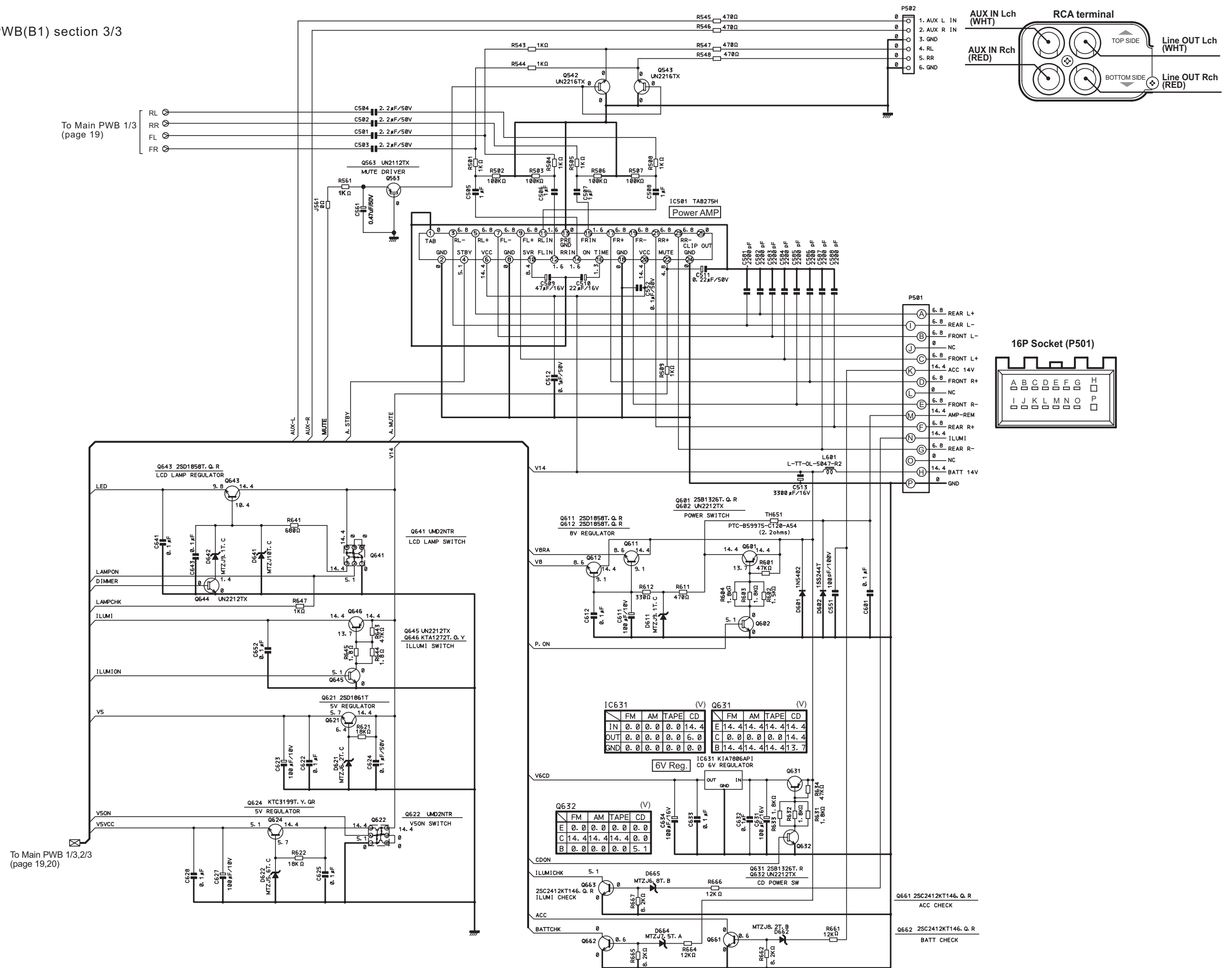
	FM	AM	TAPE	CD
E	14.4	14.4	14.4	14.4
C	0.0	0.0	14.4	0.0
B	14.4	14.4	13.7	14.4

Q362 (V)

	FM	AM	TAPE	CD
E	0.0	0.0	0.0	0.0
C	14.4	14.4	0.0	14.4
B	0.0	0.0	5.0	0.0

ADB340MP
ADB341MP

Main PWB(B1) section 3/3



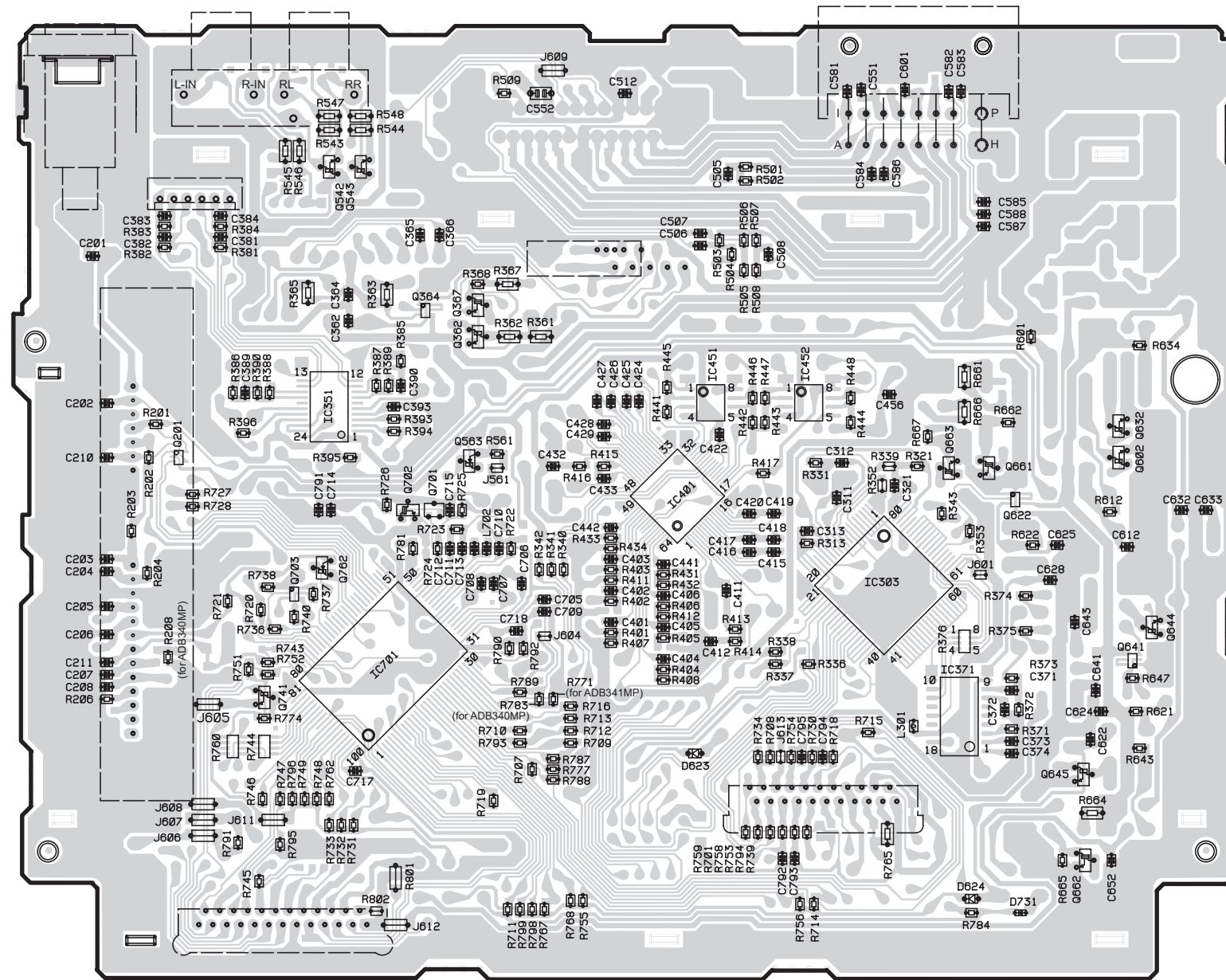
To Main PWB 1/3 (page 19)

To Main PWB 1/3,2/3 (page 19,20)

PRINTED WIRING BOARD

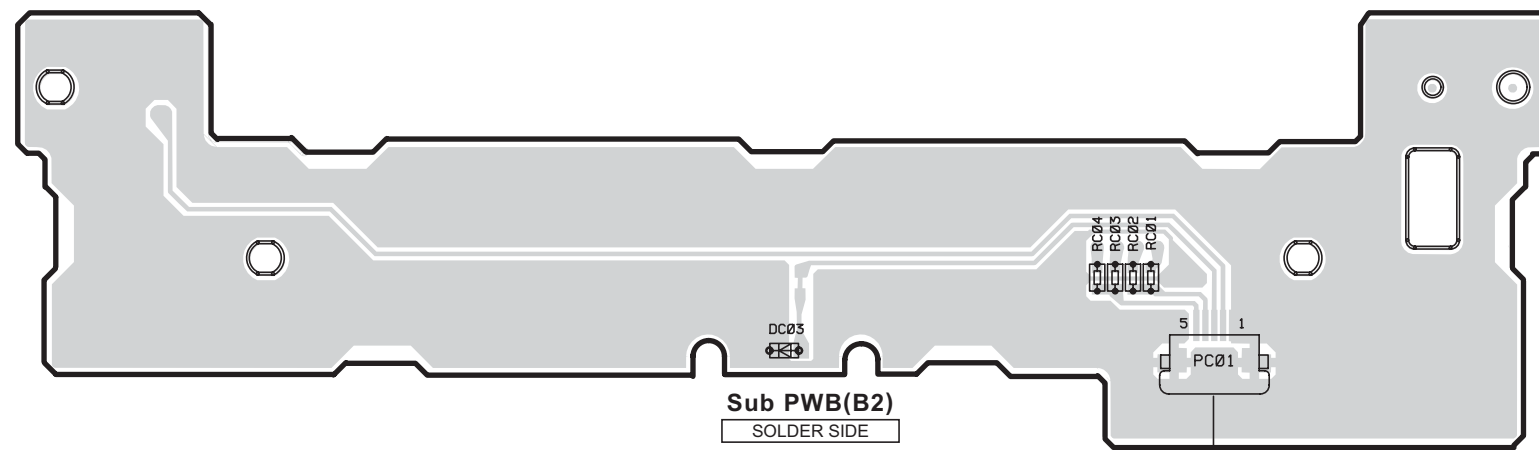
Main PWB(B1) section 1/2

Sub PWB(B2) section 1/2



Main PWB(B1)

SOLDER SIDE



Sub PWB(B2)

SOLDER SIDE

Q542
Q543

Q367
Q364
Q362

IC451
IC452

IC351

Q632
Q201
Q563
Q663
Q602
Q661
Q702
Q701
Q622

IC401

IC303

Q762
Q703
Q644
Q641

IC701

IC371

Q741

Q645

Q662

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

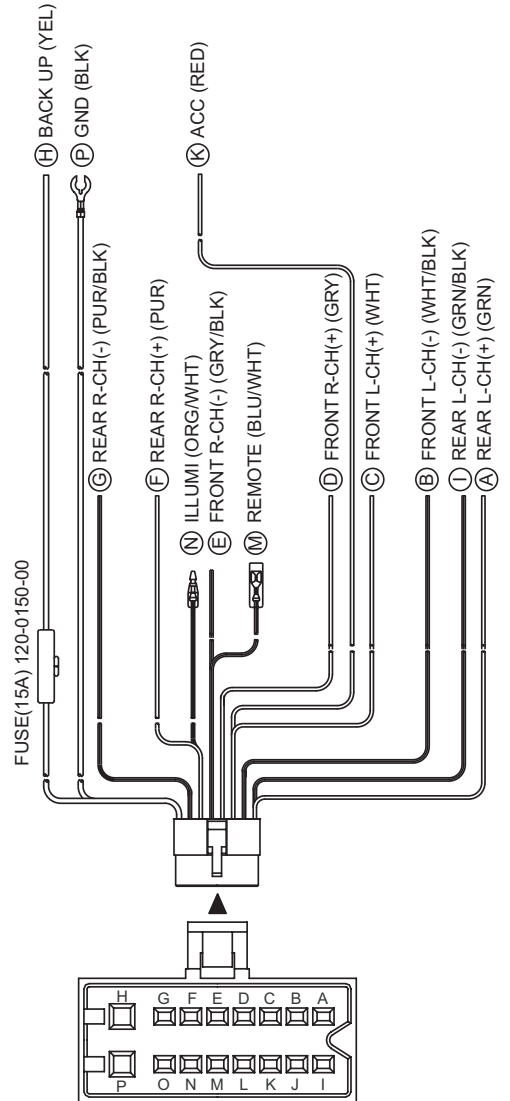
ADB340MP
ADB341MP

To P701 of Main PWB(page 23)

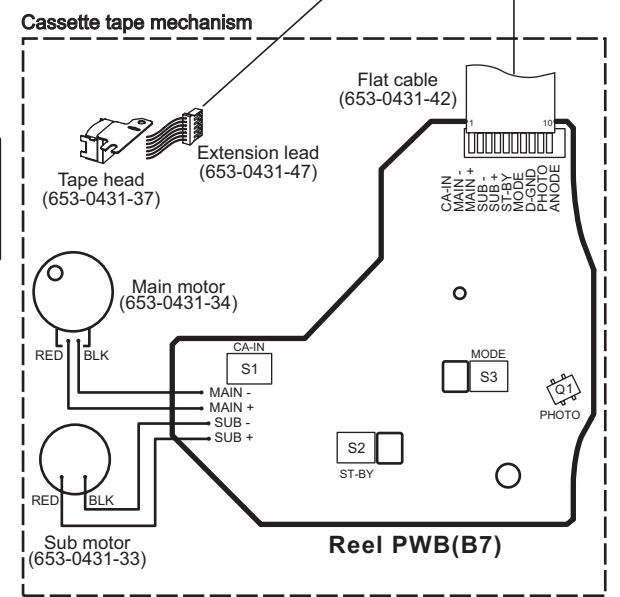
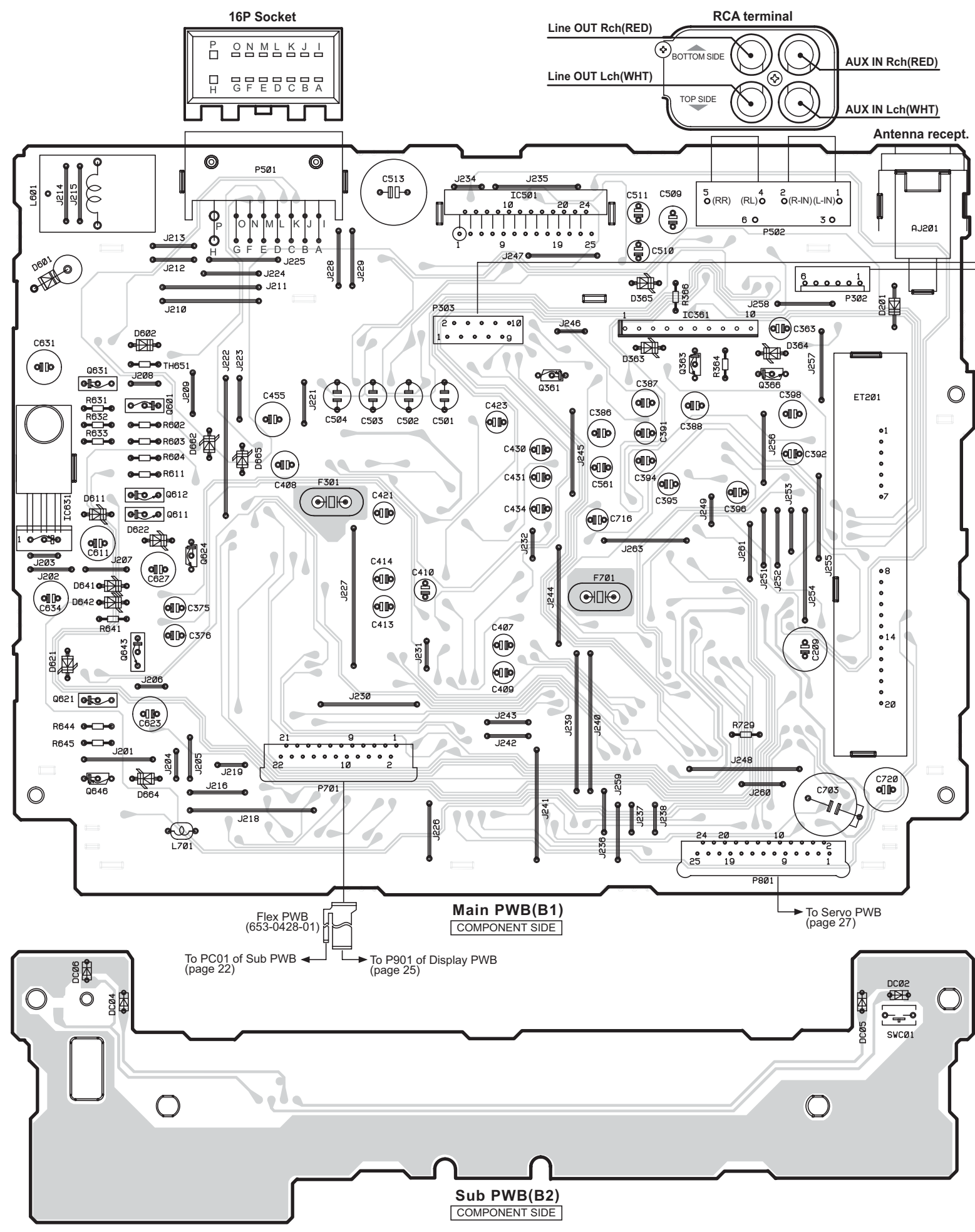
Main PWB(B1) section 2/2
 Sub PWB(B2) section 2/2
 Reel PWB(B7) section

16P Socket (Extension lead)

A	REAR L-CH(+)	GRN	I	REAR L-CH(-)	GRN/BLK
B	FRONT L-CH(-)	WHT/BLK	J	NC	---
C	FRONT L-CH(+)	WHT	K	ACC	RED
D	FRONT R-CH(+)	GRY	L	NC	---
E	FRONT R-CH(-)	GRY/BLK	M	REMOTE	BLU/WHT
F	REAR R-CH(+)	PUR	N	ILLUMI	ORG/WHT
G	REAR R-CH(-)	PUR/BLK	O	NC	---
H	BACK UP	YEL	P	GND	BLK



Extension lead (653-0428-46)



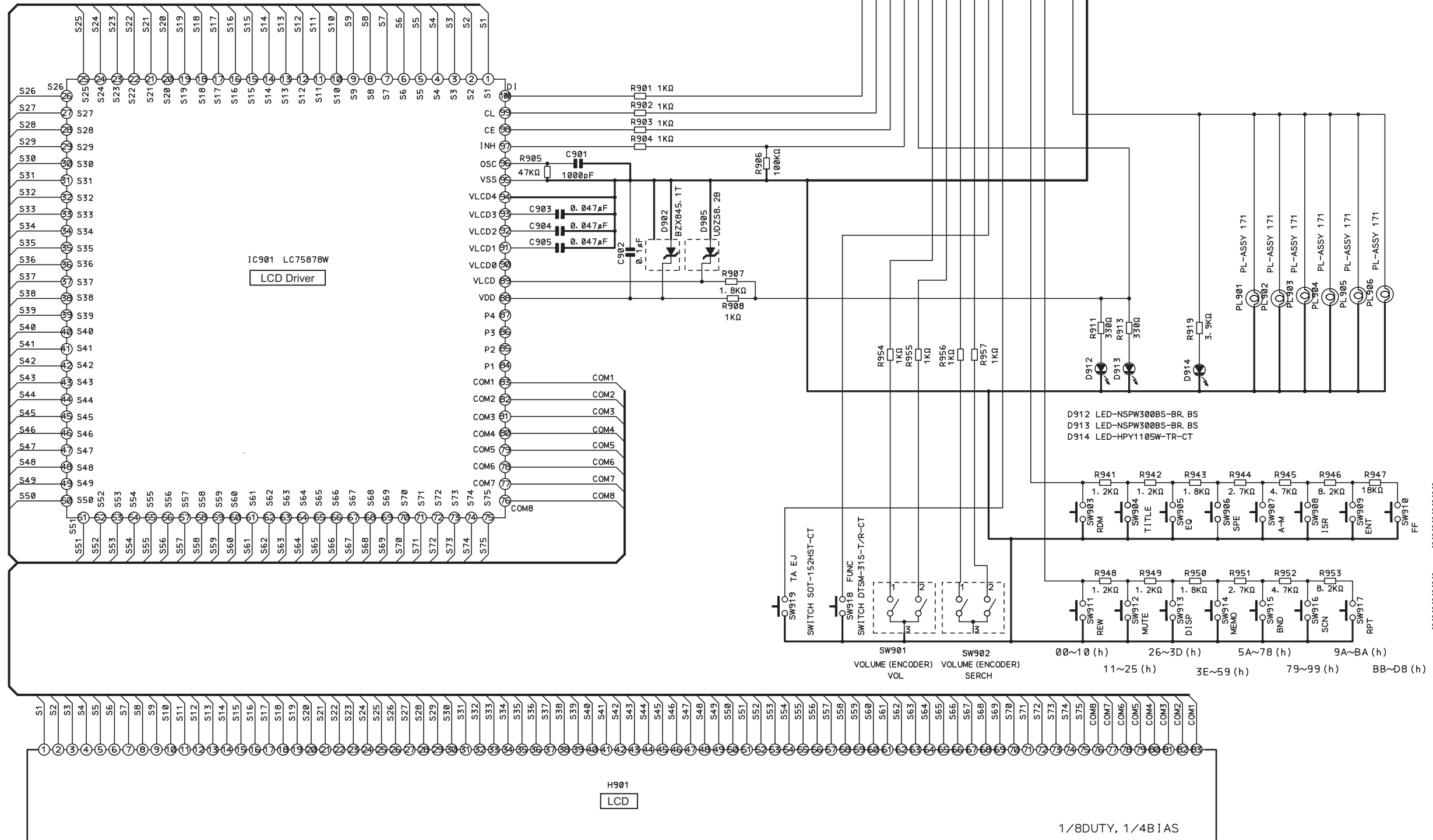
CIRCUIT DIAGRAM

Display PWB(B3) section

Voltage measurement conditions:

BATT,ACC 14.4V
FM 98.1MHz/66dBu Non-Mod Vol:1

IC901												(V)							
FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM	FM							
1	3.3	11	3.3	21	3.3	31	3.3	41	3.3	51	3.3	61	3.3	71	3.3	81	3.3	91	4.9
2	3.3	12	3.3	22	3.3	32	3.3	42	3.3	52	3.3	62	3.3	72	3.3	82	3.3	92	3.3
3	3.3	13	3.3	23	3.3	33	3.3	43	3.3	53	3.3	63	3.3	73	3.3	83	3.3	93	1.8
4	3.3	14	3.3	24	3.3	34	3.3	44	3.3	54	3.3	64	3.3	74	3.3	84	3.3	94	0
5	3.3	15	3.3	25	3.3	35	3.3	45	3.3	55	3.3	65	3.3	75	3.3	85	3.3	95	0
6	3.3	16	3.3	26	3.3	36	3.3	46	3.3	56	3.3	66	3.3	76	3.3	86	3.3	96	3.9
7	3.3	17	3.3	27	3.3	37	3.3	47	3.3	57	3.3	67	3.3	77	3.3	87	3.3	97	4.8
8	3.3	18	3.3	28	3.3	38	3.3	48	3.3	58	3.3	68	3.3	78	3.3	88	3.3	98	0
9	3.3	19	3.3	29	3.3	39	3.3	49	3.3	59	3.3	69	3.3	79	3.3	89	3.3	99	4.9
10	3.3	20	3.3	30	3.3	40	3.3	50	3.3	60	3.3	70	3.3	80	3.3	90	4.9	100	4.8

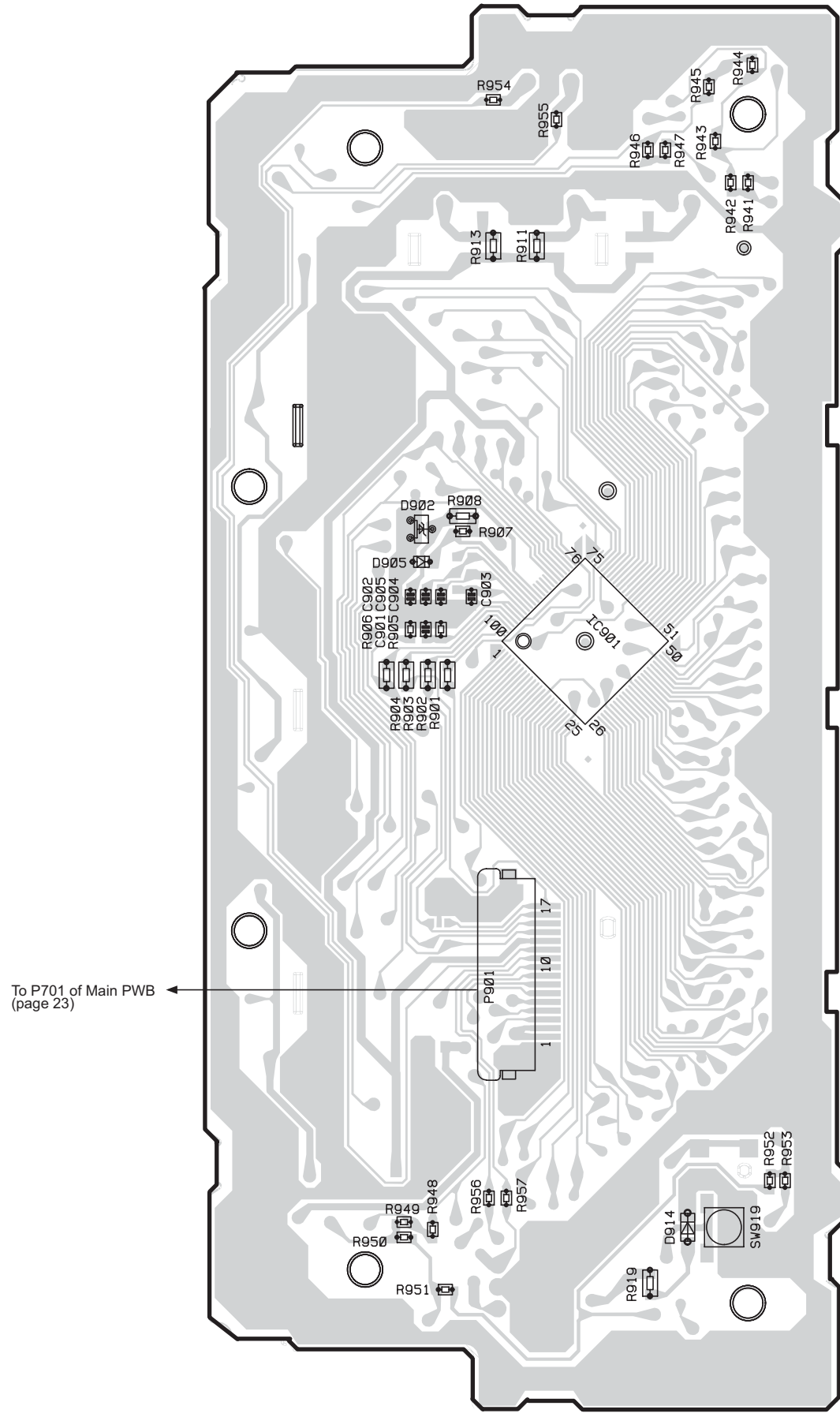


- SW903 SWITCH DTSM-315-T/R-CT
- SW904 SWITCH DTSM-315-T/R-CT
- SW905 SWITCH DTSM-315-T/R-CT
- SW906 SWITCH DTSM-315-T/R-CT
- SW907 SWITCH DTSM-315-T/R-CT
- SW908 SWITCH DTSM-315-T/R-CT
- SW909 SWITCH DTSM-315-T/R-CT
- SW910 SWITCH DTSM-315-T/R-CT

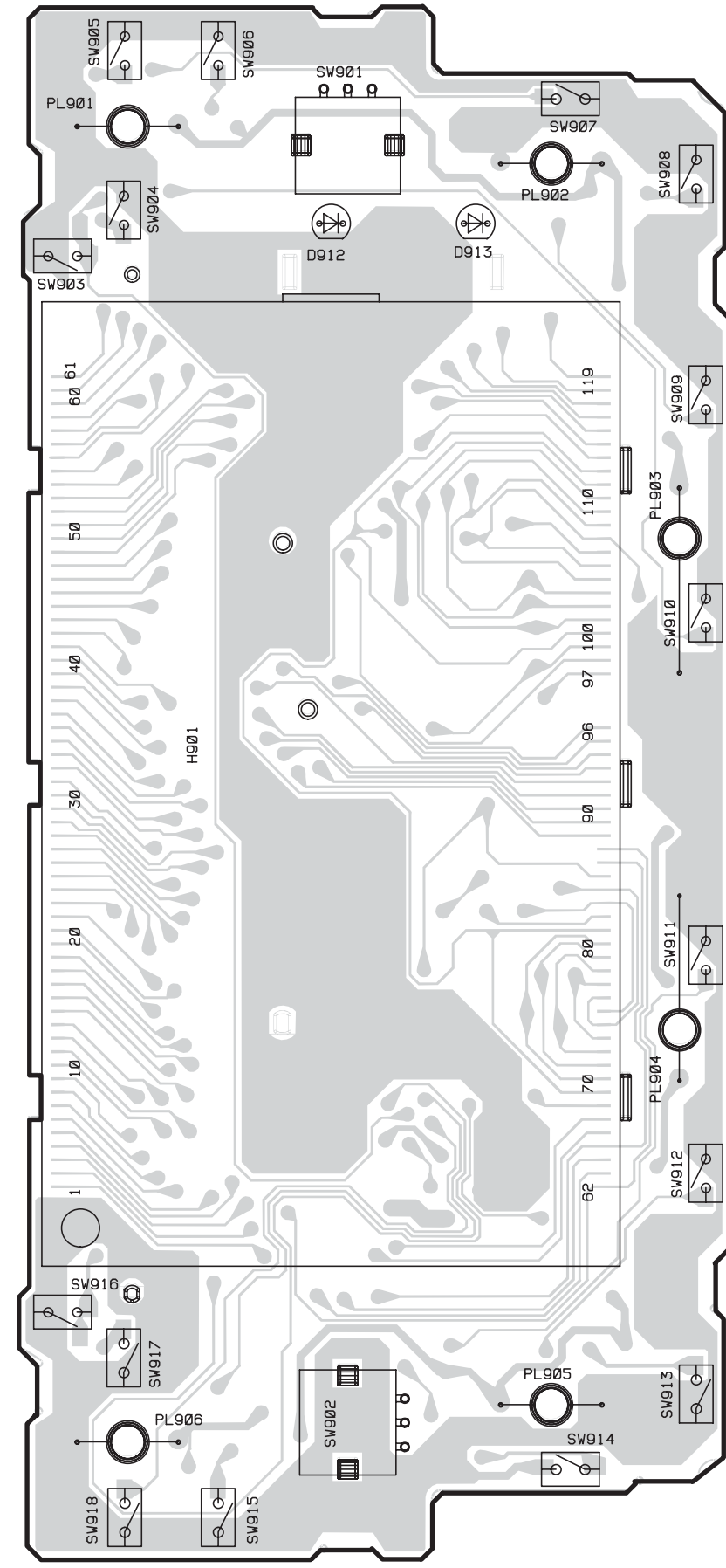
- SW911 SWITCH DTSM-315-T/R-CT
- SW912 SWITCH DTSM-315-T/R-CT
- SW913 SWITCH DTSM-315-T/R-CT
- SW914 SWITCH DTSM-315-T/R-CT
- SW915 SWITCH DTSM-315-T/R-CT
- SW916 SWITCH DTSM-315-T/R-CT
- SW917 SWITCH DTSM-315-T/R-CT

PRINTED WIRING BOARD

Display PWB(B3) section



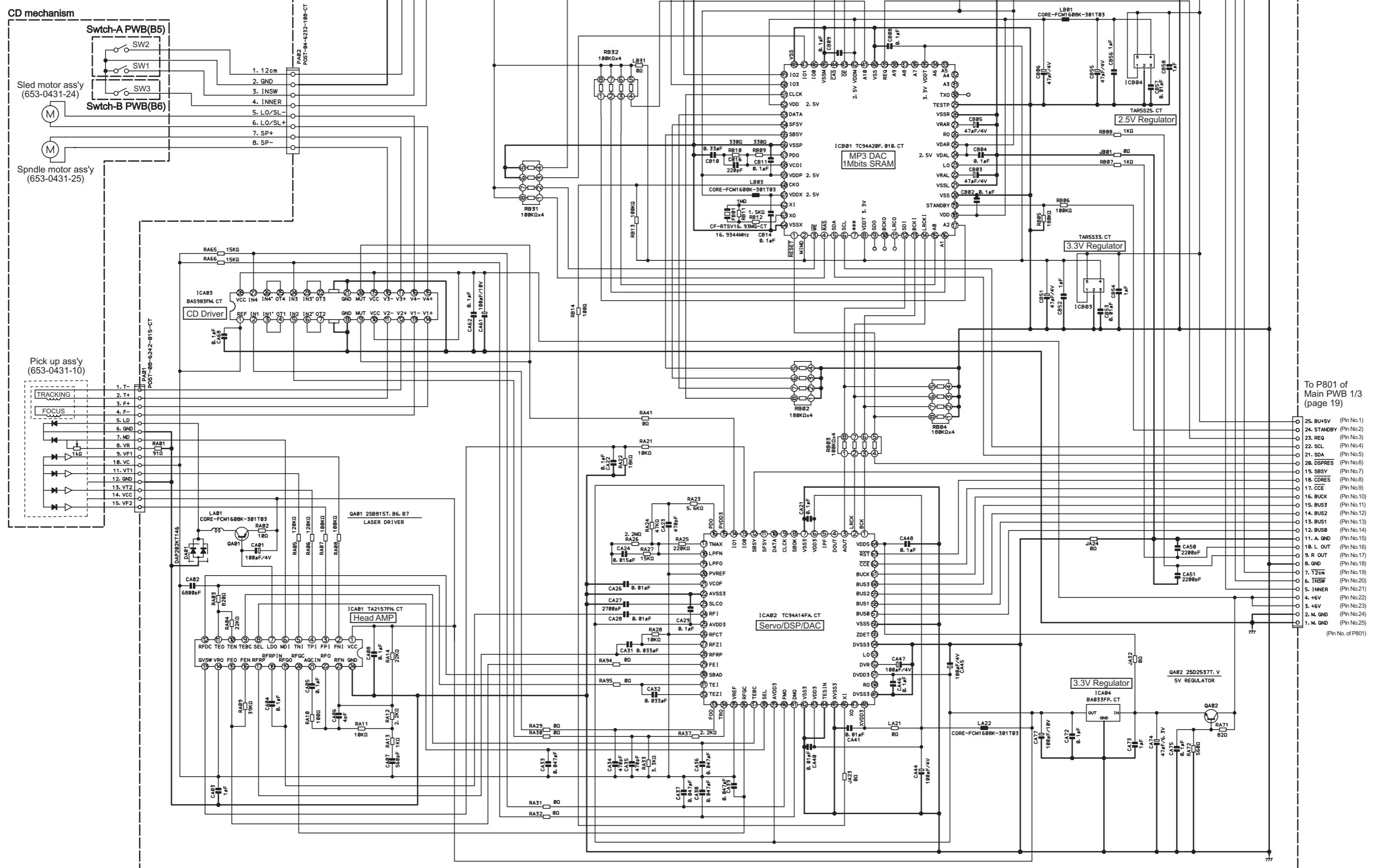
Display PWB(B3)
SOLDER SIDE



Display PWB(B3)
COMPONENT SIDE

CIRCUIT DIAGRAM

Servo PWB(B4) section
Switch-A PWB(B5) section
Switch-B PWB(B6) section



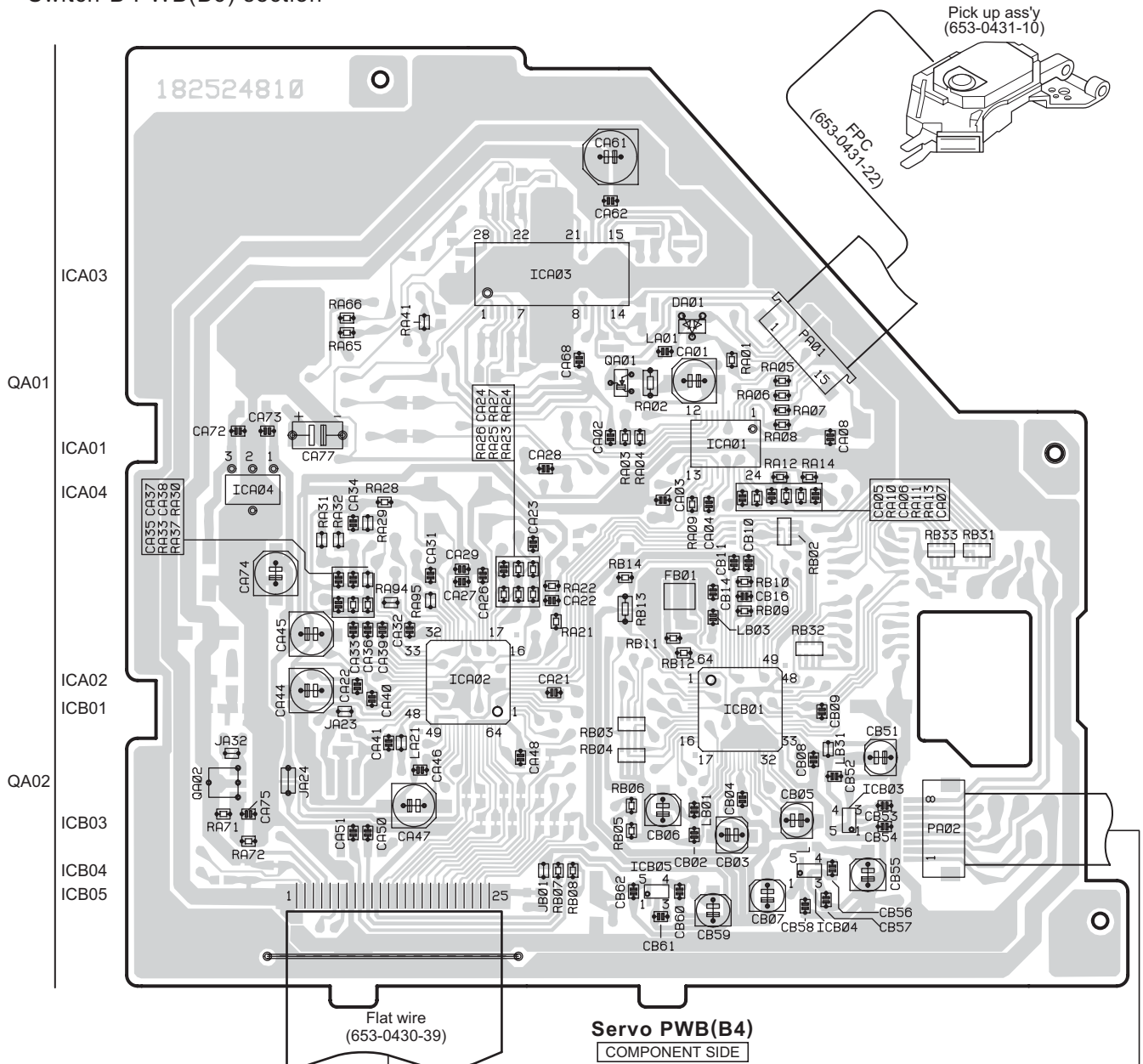
To P801 of Main PWB 1/3 (page 19)

- 25. BU+5V (Pin No.1)
- 24. STANDBY (Pin No.2)
- 23. REQ (Pin No.3)
- 22. SCL (Pin No.4)
- 21. SDA (Pin No.5)
- 20. DSPRES (Pin No.6)
- 19. SBSY (Pin No.7)
- 18. CDRES (Pin No.8)
- 17. CCE (Pin No.9)
- 16. BUCK (Pin No.10)
- 15. BUS3 (Pin No.11)
- 14. BUS2 (Pin No.12)
- 13. BUS1 (Pin No.13)
- 12. BUS0 (Pin No.14)
- 11. A_GND (Pin No.15)
- 10. L_OUT (Pin No.16)
- 9. R_OUT (Pin No.17)
- 8. GND (Pin No.18)
- 7. T2cm (Pin No.19)
- 6. INNER (Pin No.20)
- 5. INSW (Pin No.21)
- 4. +6V (Pin No.22)
- 3. +6V (Pin No.23)
- 2. M_GND (Pin No.24)
- 1. M_GND (Pin No.25)

ADB340MP
ADB341MP

PRINTED WIRING BOARD

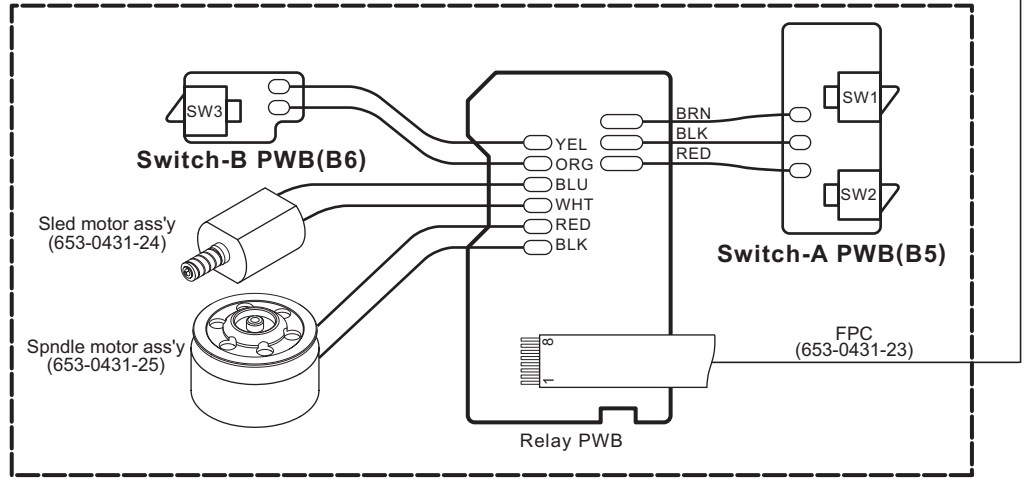
Servo PWB(B4) section 1/2
 Switch-A PWB(B5) section
 Switch-B PWB(B6) section

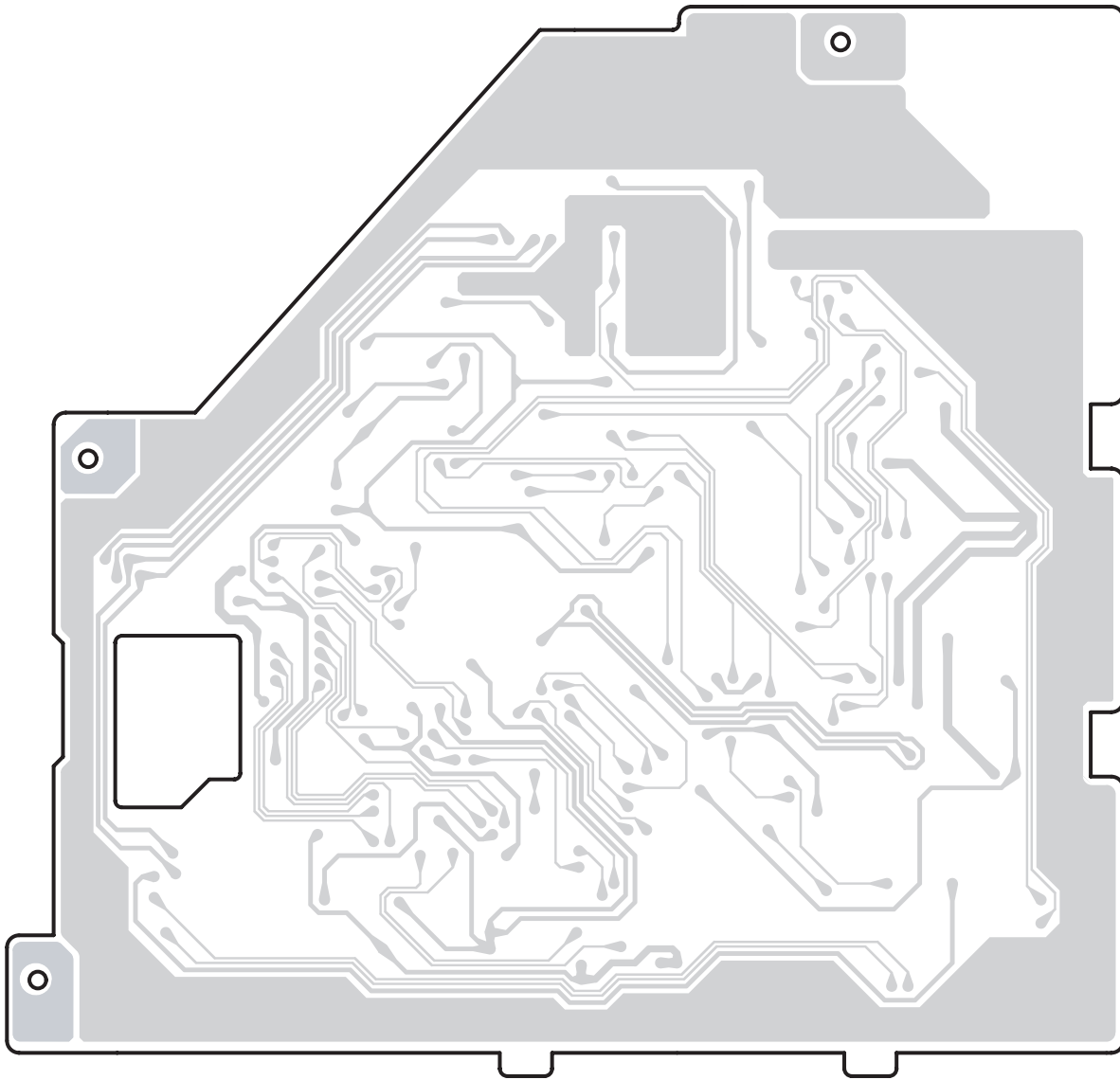


Servo PWB(B4)
 COMPONENT SIDE

To P801 of Main PWB (page 21)

CD mechanism





Servo PWB(B4)
SOLDER SIDE