ORDER NO. MD9401002C2

Service Manual

Amplifier/Cassette Player

SU-CH40

* DOLBY B NR

SB-CH40 SU-CH40 SL-CH40 SB-CH40

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R. Germany/Italy	

TAPE DECK : MECHANISM SERIES (AR300)

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

■ SPECIFICATIONS

■ AMPLIFIER SECTION

1 kHz continuous power output both channels driven	2 X 30 W(THD 1%, 6 Ω)
Total harmonic distortion half power at 1 kHz	0.05% (6Ω)
Frequency response	
AUX	52 Hz — 20 kHz (–3 dB)
Input sensivity	
AUX	250 mV
Input impedance	
AUX	22 kΩ
Graphic equalizer	±10 dB
	(100 Hz, 250 Hz, 1 kHz, 3.3 kHz, 12.5 kHz)

■ GENERAL

Power consumption	130 W
Power supply	AC 50 Hz, 230 — 240 V
Dimension (W x H x D)	270 x 184.4 x 361.4 mm
Weight	6.3 kg

Notes :

1. Specifications are subject to change without notice.
   Weight and dimensions shown are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

■ CASSETTE DECK SECTION

Track system	4 – track, 2 – channel
Heads	
Playback	Solid Permalloy Head (Rotary Head)
Record/Playback	Solid Permalloy Head (Rotary Head)
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias, 100 kHz
Erase system	AC erase, 100 kHz
Tape speed	4.8 cm/sec
Frequency response	
NORMAL	30 Hz—14 kHz (+3, –6 dB)
CrO_2	30 Hz—15 kHz (+3, –6 dB)
S/N (CrO_2 type tape)	
Dolby NR off	52 dB (A-WTD)
Dolby NR on	61 dB (CCIR)
Wow and Flutter	0.1% (WRMS)
Fast forward and rewind time	Approx. 110 seconds with C-60 cassette tape

System	Amplifier/ Cassette Deck	Tuner/ CD Player	Speaker
SC-CH40E	SD-CH40E		SB-CH40E (MADE IN PAES)
	SU-CH40E	SL-CH40E	
SC-CH40EB	SD-CH40EB		
	SU-CH40EB	SL-CH40E	
SC-CH40EG	SD-CH40EG		
	SU-CH40EG	SL-CH40EG	

Panasonic

Note :

< for Main circuit >

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
- Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.
- * The parenthesized are the values of voltage generated during playing (Test disc 1 kHz, L + R, 0 dB), others are voltage values in stop mode.

No mark ..... Tape Playback

- Important safety notice :
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Caution !

IC, LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.

AUX signal line

Playback signal line

Recording signal line

Servo (CD) signal line

Tuner signal line

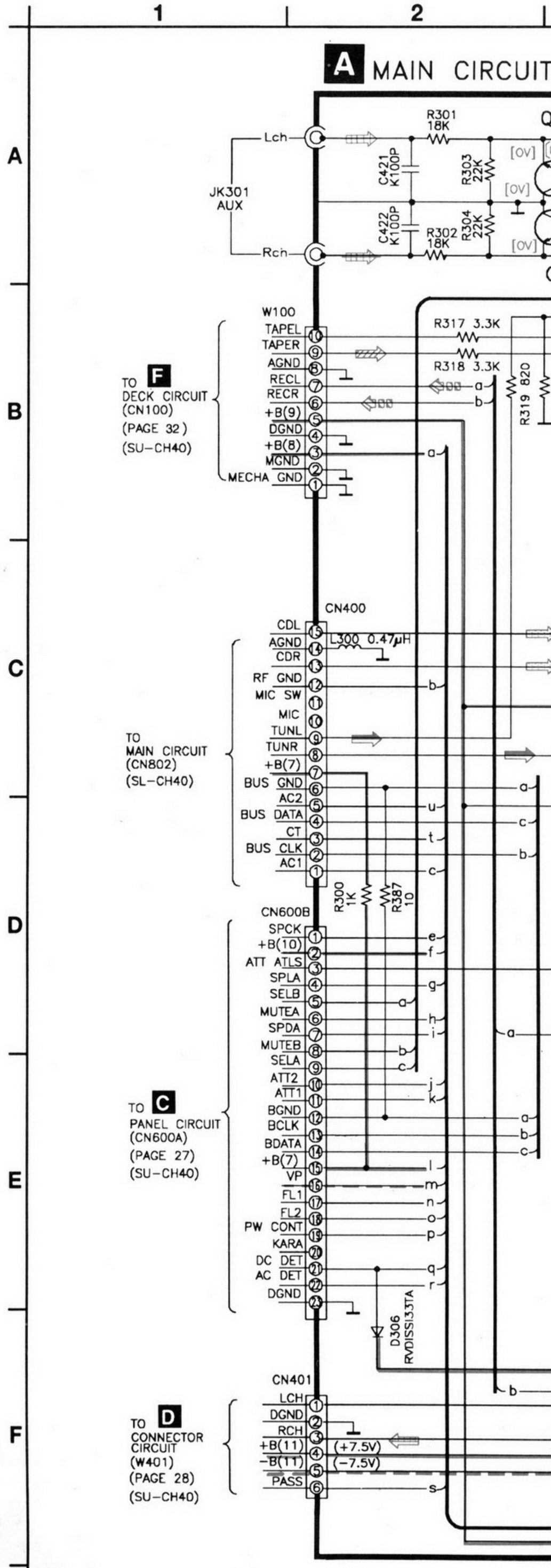
Main signal line

Spectrum Analyser signal line

- B line

+B line

■ SCHEMATIC DIAGRAM (Parts li

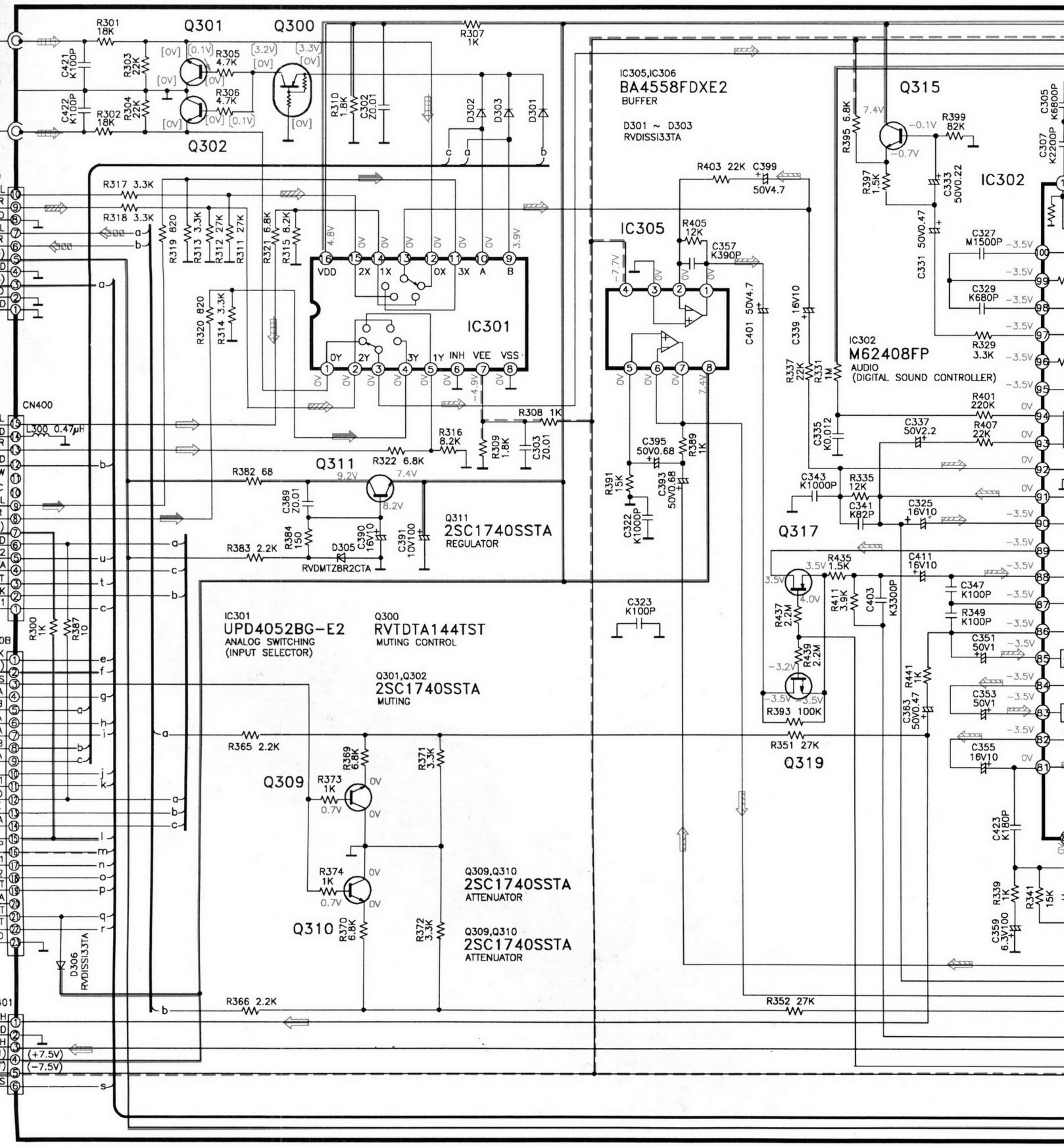


U-CH40 SU-CH40

AGRAM (Parts list on page 53 ~ 61)

2 3 4 5 6

A MAIN CIRCUIT



7 8 9 10 11

IC302

C305 K6800P
C307 K2200P
C309 KN0.022
C311 K6800P
C313 50V0.1
C315 K0.033
C317 M0.082 50V0.15
C319 M0.082 50V0.15
C324 10V470
C321 Z0.01
C318 M0.082 50V0.15
C320 M0.082 50V0.15
C314 50V0.15
C316 K0.033 50V0.15
C310 K0.022
C312 K6800P
C306 K6800P
C308 K2200P

NC AGND +VCC −VCC −VCC −VCC

Q316
R400 82K
C334 50V0.22
R398 1.5K
C332 50V0.47

C327 M1500P
C328 K1500P
C329 K680P
C330 K680P
R329 3.3K
R330 3.3K
R401 220K
R402 220K
R407 22K
R408 22K
C338 50V2.2
C326 16V10
C412 16V10
C347 K100P
C348 K100P
C349 K100P
C350 K100P
C351 50V1
C352 50V1
C353 50V1
C354 50V1
C355 16V10
C356 16V10
C404 K3300P
R442 1K
C364 50V0.47

(F6) (F5) (F4) (F3) (F2) RESISTOR LADDER (F1)

ZERRO CROSS

VR / VF , EQ CONTROL CIRCUIT

CREF0 CREF1 MUTE AGND2 +VCC −VCC −VCC −VCC NC NC DGND NC VDD NC

C423 K180P
C424 K180P
R339 1K
R340 1K
R341 15K
R342 15K
C359 6.3V100
C360 6.3V100
C361 K270P
C362 K270P
C381 K0.047
C365 M0.082
C366 K4700P
R343 820K
R344 3.3K
C367 16V10
R345 8.2K
R346 2.2K
R347 18K
C368 K0.022
C369 50V1
C370 16V100
C371 50V4.7
C372 16V10
C378 Z0.01
C375 J47P
C376 J47P
C377 J47P
C379 Z0.01
C380 16V10
R348 10K

12 13 14 15 16

Q315,Q316
2SC1740SLNST
FILTER AMP

Q307,Q308
2SD1020HTA
MUTING

Q319,Q320
2SK381CTA
SWITCHING

CP500
TGND
RCH
AGND
LCH
+B (9)
+B (10)
TO B POWER CIRCUIT (CN500) (PAGE 33) (SU-CH40)

IC306

Q318 Q320 Q321 Q322 Q323 Q324 Q325 Q326 Q327 Q328 Q307 Q308 Q312 Q313

D309 RVDMTZ6R8BTA

CP502
+B(7)
DCDET
PWCONT
ACDET
VP
FL1
FL2
TO B POWER CIRCUIT (CN502) (PAGE 33) (SU-CH40)

CP501
-B (11)
MOGND
DGND
AC1
CT
AC2
+B(8)
TO B POWER CIRCUIT (CN501) (PAGE 33) (SU-CH40)

Q321 ~ Q324
2SC1740SSTA
MUTING

Q325,Q326
RVTDTA114TST
ATTENUATOR CONTROL

Q312
RVTDTA124EST
SWITCHING

Q327
RVTDTA124EST
POWER SUPPLY CONTROL

Q313
RVTDTA124EST
MUTING CONTROL

Q328
RVTDTA124EST
SWITCHING (PASS)

D308 RVD1SS133TA

D307 RVD1SS133TA

■ SCHEMATIC DIAGR

Note :

< for Panel circuit >

- •S601 : EDIT normal switch
- •S602 : EDIT high switch
- •S603 : DECK 1/2 select switch
- •S604 : REC pause switch
- •S605 : TPS REV switch
- •S606 : REV play switch
- •S607 : FWD play switch
- •S608 : TPS FWD switch
- •S609 : STOP switch
- •S610 : REV mode switch
- •S611 : DOLBY switch
- •S612 : COUNT reset switch
- •S613 : POWER switch
- •S614 : V BASS switch
- •S615 : DOWN switch
- •S616 : UP switch
- •S617 : REC timer switch
- •S618 : PLAY timer switch
- •S619 : CLOCK/TIMER switch
- •S620 : SET switch
- •S621 : EQ ON/FLAT switch
- •S622 : EQ switch
- •S623 : SPACE mode switch
- •S624 : DISPLAY switch

•VR601 : Main volume control VR

General

•DC voltages measurement are taken with electronic voltmeter.
The negative terminal of the battery provides negative meter connection point.

No mark ....Tape Playback

•Important safety notice:
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Caution !
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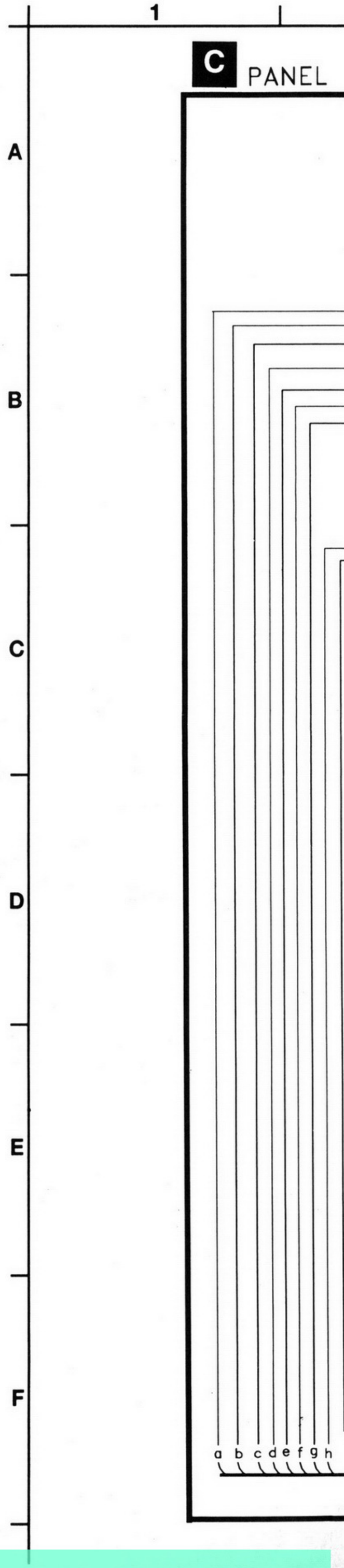
Secondary trouble can be prevented by taking care during repair.
*Cover the parts boxes made of plastics with aluminum foil.
*Ground the soldering iron.
*Put a conductive mat on the work table.
*Do not touch the pins of IC or LSI with fingers directly.

•This schematic diagram may be modified at any time with the development of new technology.

: +B Line

: –B Line

: Spectrum Analyser signal line

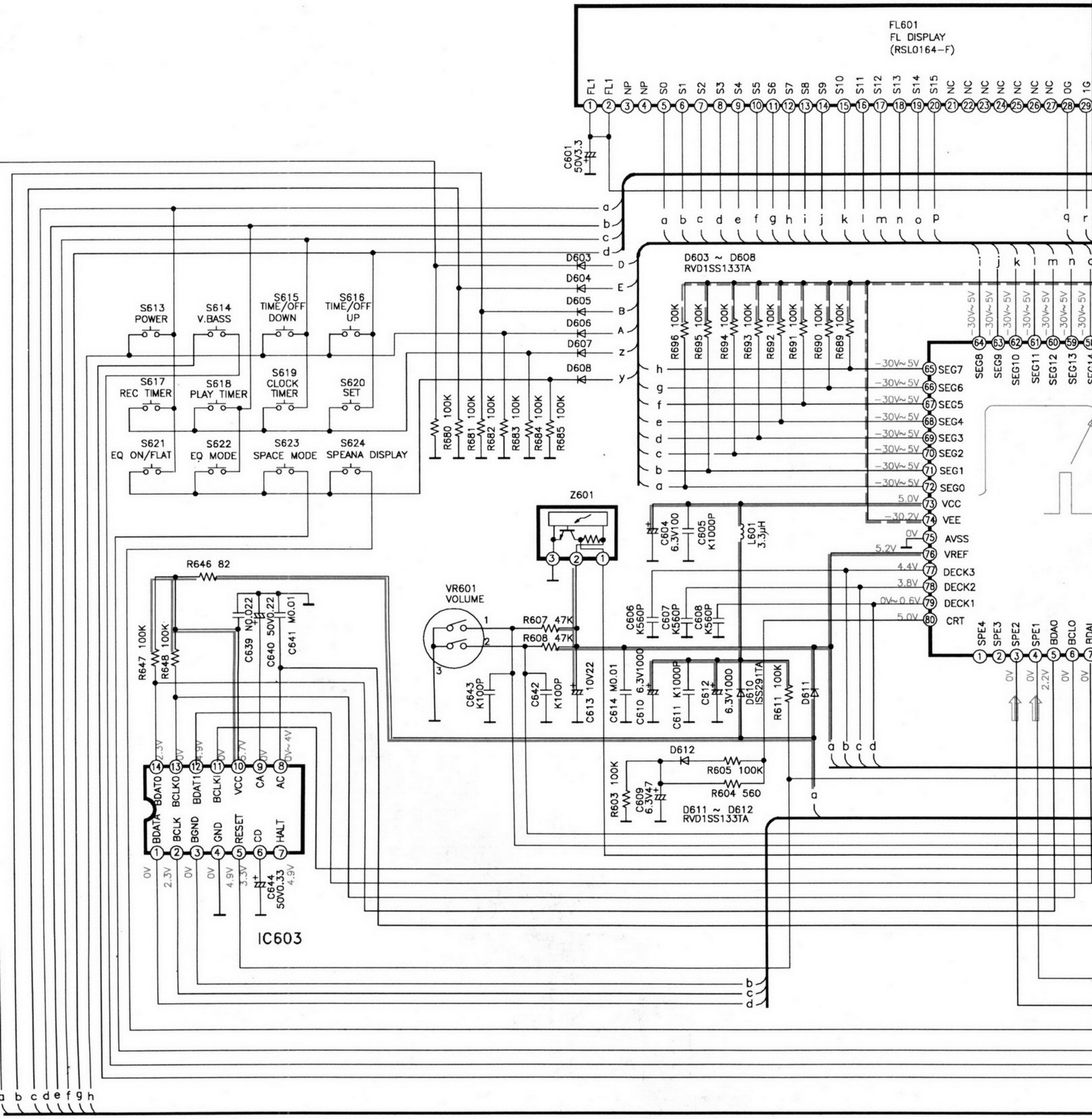


U-CH40 SU-CH40

C DIAGRAM

2 3 4 5 6

C PANEL CIRCUIT



7 8 9 10 11

CN600A
SPCK
+B(10)
ATT ATLS
SPLA
SELB
MUTEA
SPDA
MUTEB
SELA
ATT2
ATT1
BGND
BCLK
BDATA
+B(7)
VP
FL1
FL2
PW CONT
KARA
DC DET
AC DET
GND

TO A MAIN CIRCUIT (CN600B) (PAGE 21) (SU-CH40)

W200
VREF+
ADIN7
ADIN6
ADIN5
AVSS
MKCLK
MKDATA
+B(10)

TO F DECK CIRCUIT (CN200) (PAGE 31) (SU-CH40)

W603A
KR2
KR1
KS3
SP1
SP2
KR3

W603B

W602A
KR1
KR2
KS3
KR3
KR0
KS5
KS4
KS6
PASS

W602B

NC NC NC NC OG 1G 2G 3G 4G 5G 6G 7G 8G 9G 10G 11G 12G 13G NP NP FL2 FL2

SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 DEG0 DEG1 DEG2 DEG3 DEG4 DEG5 DEG6 DEG7 DEG8 DEG9 DEG10 DEG11 DEG12 DEG13 P16 P17

C602 50V3.3
R601 100
R602 100
D602 RVDMTZ4R7BTA
C603 50V1

D617 RVD1SS133TA

R698 100K
R619 100K
R620 100K
R621 100K
R622 100K

C619 K1000P
Q601 0.7V
C620 K1000P
Q602 0.7V

R687 1K
R688 1K
R623 4.7K
R624 4.7K
R625 680
X601
C622 J68P
C621 J68P
C624 J56P
C623 J56P
R626 330K
R645 10M
X602
C625 J22P
C626 J18P

KR0 KR1 KR2 KR3 PW CNT KARAOKE MBP2 MBP1 VSS XOUT XIN XC OUT XC IN RESET ACDET PWDET

IC601

5.0V
0V
-30.0V

SPE3 SPE2 SPE1 BDAO BCLO BDAI BCLI P57 P52 JOGB JOGA PWR/SPEAN MUTEA SELB SELA MUTEB SPDA SPCK SPLA ATT MKCL MKDA RMT

R650 1K R612 1K R613 1K R670 1K R614 1K R615 1K R616 1K R679 1K R618 1K R617 1K

C617 M0.01
R649 1K
R686 10K

IC601
M38173M6272
CONTROL SYSTEM & FL DRIVE

Q601,Q602
2SC1740SSTA
MUTING

IC603
LA5608M-TE-L
BUS LINE/RESET/HALT

SU-CH40 SU-CH40

11 12 13 14 15 16

TO A
MAIN CIRCUIT
(CN600B)
(PAGE 21)
(SU-CH40)

D CONNECTOR CIRCUIT

TO F
DECK
CIRCUIT
(CN200)
(PAGE 31)
(SU-CH40)

W603B

W602B

CN601

W401

TO A
MAIN
CIRCUIT
(CN401)
(PAGE 21)
(SU-CH40)

SP LCH
DGND
SP RCH
+B(11) (+7.5V)
-B(11) (-7.5V)
PASS

R665 6.8K
R666 6.8K
D613 RVD1SS133TA
C646 J22P
R664 1.8K
R656 100K
R662 6.8K
R630 1.8K
D622 RVD1SS133TA
R628 33K
C628 50V2.2
R629 1.8K
D621 RVD1SS133TA
R627 33K
C627 50V2.2
R661 6.8K
R655 100K
R663 1.8K
C645 J22P

IC604
BA4558FDXE2
OP AMP
(BUFFER)

7.4V 0V 0V 0V
0V 0V 0V -7.6V

E OPERATION CIRCUIT

W601

a b c d e f g

S601 EDIT NOR
S602 EDIT HIGH
S603 DECK 1/2
S604 REC. PAUSE
S605 REV
S606 REV PLAY
S607 FWD PLAY
S608 Fwd
S609 STOP
S610 REVERSE MODE
S611 DOLBY
S612 COUNTER RESET

Note :

< for Deck circuit >

- S951 : Deck 1 mode detect switch.
- S952 : Deck 1 tape detect switch.
- S953 : Deck 1 tape select switch.
- S971 : Deck 2 mode detect switch.
- S972 : Deck 2 tape detect switch.
- S973 : Deck 2 tape tab switch (REV).
- S974 : Deck 2 tape tab switch (FWD).
- S975 : Deck 2 tape select switch (CrO_2).

- VR101 : Deck 1 Lch playback gain adjustment VR (Dolby).
- VR102 : Deck 1 Rch playback gain adjustment VR (Dolby).
- VR103 : Deck 2 Lch playback gain adjustment VR (Dolby).
- VR104 : Deck 2 Rch playback gain adjustment VR (Dolby).
- VR201 : Deck 1 tape speed adjustment VR (Normal).
- VR202 : Deck 2 tape speed adjustment VR (Normal).
- VR203 : Deck 2 tape speed adjustment VR (High).

General

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
- Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.
  * The parenthesized are the values of voltage generated during playing (Test disc 1 kHz, L + R, 0 dB), others are voltage values in stop mode.

(( )) .....CD << >> .....Tape Recording No mark .....Tape Playback

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- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.

: Playback signal line

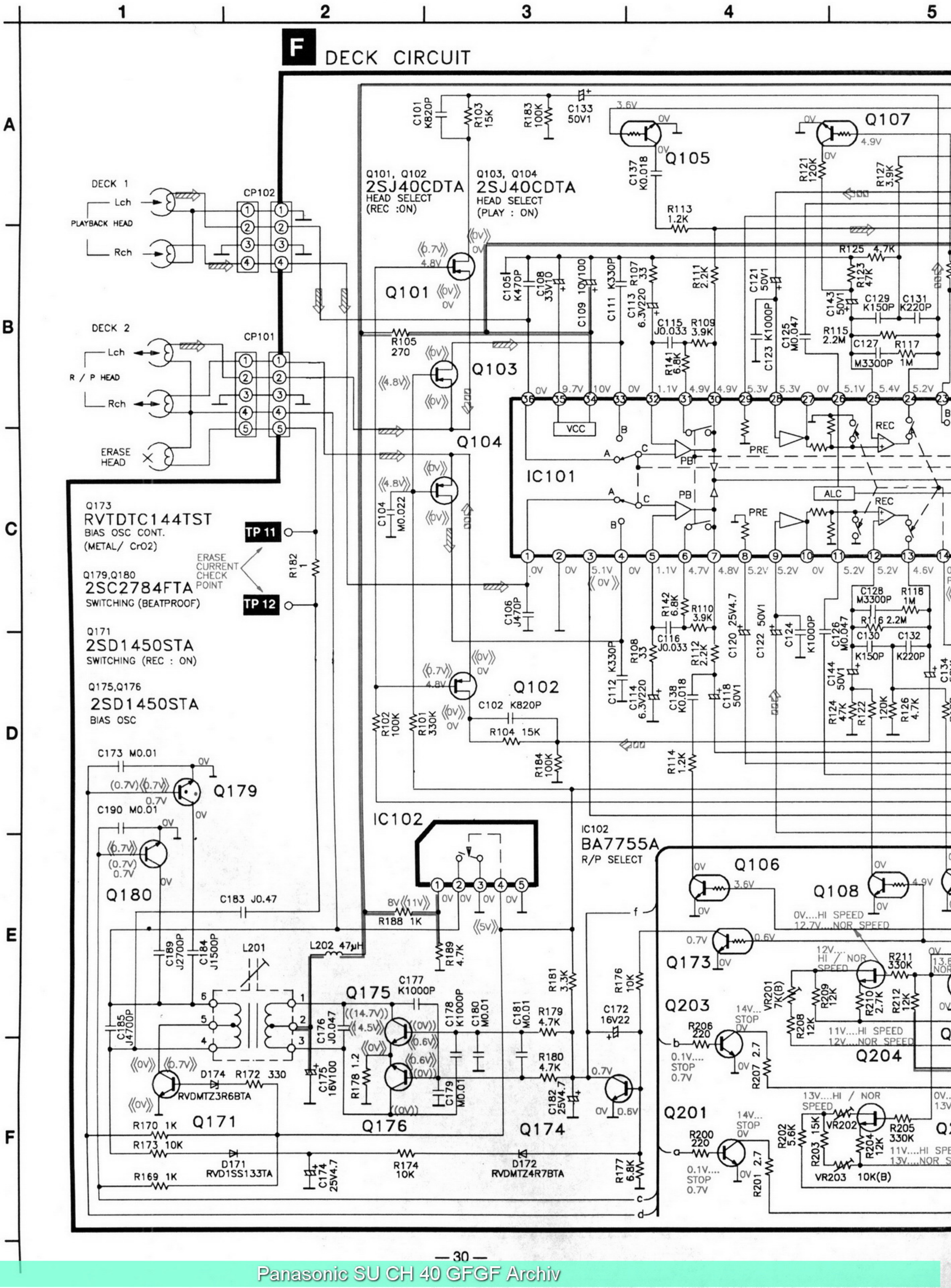
: Recording signal line

: +B line

: -B line

: Main signal line

■ SCHEMATIC DIAGRAM



5 6 7 8 9

Q107 4.9V
Q109 0V 3.6V 0V
R127 3.9K
C119 25V4.7
R131 82K
C117 50V1
R123 47K
R146 10K
C146 16V10
C145 16V10
C129 K150P
C131 K220P
R145 10K
C127 M3300P
R117 1M
C139 50V2.2
4V.... CrO2 0V.... NOR
5V.... CrO2 0V.... NOR
5V.... PLAY DECK1 0V
5.4V 5.2V 10V 0V GND
REC SW TPS
C128 M3300P
R118 1M
R116 2.2M
C130 K150P
C132 K220P
C134 50V1
C142 M0.022
C140 16V10
C141 50V0.1
R133 3.3K
R132 3.3M
R134 470K
R122 120K
R126 4.7K
R128 3.9K
5.2V 4.6V 0V.... PLAY 0V 0V 4.2V 5V

IC104
BU4066BF-E2
DECK 1/2 SELECT
b a
VR103 VR101
0V....PLAY DECK1
5.3V....PLAY DECK2
0V 0V 0V 0V 0V 0V 0V
1 2 3 4 5 6 7
14 13 12 11 10 9 8
5.3V 0V 0V 0V 0V
R185 100K
0V.... PLAY DECK1 5.3V.... PLAY DECK2
4.6V....PLAY DECK1 0V....PLAY DECK2
4.7V.... PLAY DECK1 0V.... PLAY DECK2
VR104 VR102
Q117 0V
IC104
Q117
RVTDTC144EST
DECK 1/2 SELECT
g f d e a b c g

Q152
D173 RVD1SS133TA
4.4V (0.2V) 0V (0V)
R139 10K
C150 10V47
R152 1M
7.8V 1.5V 0.9V
C152 50V1
C154 K1000P
R156 220
C151 50V1
Q151 Q154

Q115,Q116
2SD1020HTA
MUTING
R161 4.7K
R162 4.7K
0V (0V) 0.2V (0.2V)
Q115 Q116
R186 1K
C186 10V47
a b c

Z101
R = 25K
4.7K 2R R
1 2 3 4 5 6

Z103
R = 25K

C201 16V100
R213 1.5K
R221 2.7
R220 4.7K
R225 2.7
Q206 0V 14.1V 13.8V
C110 Z0.1
Q207 0V 14.1V 13.8V
R227 1K
Q208 13.6V 5.3V
Q209 4.9V
Q110 0V 4.9V 0V 3.6V
R211 330K
R210 2.7K
R212 12K
0V HI SPEED
13.6V.... NOR SPEED
3.6V.... HI SPEED 0V.... NOR SPEED
Q205 Q204
R205 330K
R204 12K
NOR
0V....HI SPEED 13V....NOR SPEED
Q202
11V....HI SPEED 13V....NOR SPEED
10K(B)

CP103 W204 W203
TP1 TP2 TP3
J971 J951
W201 W202
DECK 1 MOTOR
DECK 2 MOTOR
S975 (CrO2) S974 (REC INH F) S973 (REC INH R) S972 (HALF) S971 (MODE)
IC971 C971 K100P
D971 SOLENOID
IC971
DN6851ALB
HALL IC
S953 (CrO2) S952 (HALF) S951 (MODE)
IC951 C951 K100P
D951 SOLENOID
IC951
DN6851ALB
HALL IC

H MECHANISM (DECK2) CIRCUIT
G MECHANISM (DECK1) CIRCUIT

10 11 12 13 14 15

Q151, Q152
RVTDTC144TST
SWITCHING
(REC : ON)

Q153,Q154
2SC1740SLNET
BUFFER

IC101
M51167AFP-E1
P.B EQ/REC AMP/
ALC/TPS AMP.

Q105,Q106,Q109,Q110
RVTDTC144TST
P.B EQ/REC EQ
(HIGH SPEED)

PBL
PBR

CN100
10 PB Lch OUT
9 PB Rch OUT
8 AF GND
7 REC Lch IN
6 REC Rch IN
5 +B(9)
4 DIG GND
3 +B(8)
2 MO GND
1 MECHA GND

TO A
MAIN CIRCUI
(W100)
(PAGE 21)
(SU-CH40)

R151 1M
C153 K1000P
R155 220
7.8V
1.5V
0.9V
Q153

Z102

C163 50V1
R159 2.2K
C157 K680P
C155 16V10
L103
C159 K6800P
R160 2.2K
R153 1K
R154 1K
C158 K680P
C156 16V10
L104
C160 K6800P
C164 50V1
R233 2.2K
C161 16V100
C162 6.3V470
R158 220
C167 50V0.68
C165 16V10
C169 25V4.7
R137 10K
R149 2.7K
C171 16V10

IC103
1 LCH REC IN (-35dB) 6.0V
2 VCC 11V
3 LCH PB IN (-35dB) 6.0V
4 GND 6.0V
5 OFF=H 0V
6 LCH PB OUT (-15dB) 5.3V
7 LCH REC OUT (-15dB) 6.0V
8 LCH 0.4V 6.1V
16 RCH 5.9V
15 RCH 0V
14 RCH 5.9V
13 P=H 1.2V
12 5.1V ((0V))
11 RCH 6.1V
10 RCH 0.4V
9 RCH 6.1V

R163 4.3K
C166 16V10
C168 50V0.68
R138 10K
C170 25V4.7
R150 2.7K

Q107,Q108
RVTDTC144TST
REC EQ (CrO2/METAL)

Q174
2SC2785FTA
BIAS OSC CONT.

IC103
CXA1102M-T4
DOLBY NR

Q202, Q204
2SK301QTA
MOTOR SPEED CONT.

R228 4.7K
R234 4.7K
R231 4.7K
R235 100K

Q208,Q209
RVTDTC114TST
SOLENOID DRIVE

R229 10K

R230 4.7K
R232 2.2K
R106 2.2K

Q218
((5.1V))
((0V))
((0.1V))
((5.1V))
((5.2V))
((5.3V))

Q219
((0V))
5.2V....
PLAY DECK2

((5.4V))
0V....
PLAY DECK2
Q220
((5.4V))
5.3V....PLAY DECK1
DECK2

((5.4V))
0V....
PLAY DECK1
((0V))
5.2V....PLAY DECK1

R226 1K
13.6V
4.9V

IC105
8 DMT 0.2V...PLAY ON 5.1V
7 BP1 0.7V...DECK1 ON 0V...PLAY OFF
6 DOLBY 0V...DOLBY ON 5.3V...PLAY OFF
5 HI SP ((0V))
4 TAPE 3.6V....HI SPEED
3 INPUT SELECT ((0V)) 5.1V
2 5.3V
1 GND 0V
LATCH
12 BIT SHIFT REGISTER
BUFFER
9 BP2 ((0.1V)) ((0V)) 4.7V....PALY DECK1
10 IH ((0V))
11 REC ((0.2V)) ((5.2V)) 0V....MOTOR DECK1
12 2M ((5.4V))
13 1M ((5.4V))
14 2PL ((5.4V)) 0V....MOTOR DECK2
15 1PL 0.3V....PL ON 4.9V....PLAY
16 VCC 5.3V
C202 Z0.1

R236 100K
C187 K470P
C188 K470P

Q201, Q203
2SD965RTA
MOTOR DRIVE

Q205
RVTDTC144TST
MOTOR SPEED CONT.

SW+5V

CN200
8 VREF(+)
7 ADIN7
6 ADIN6
5 ADIN5
4 VREF(-)
3 MKCLK
2 MKDATA
1 +B(10)

TO C
PANEL CIRCUIT
(W200)
(PAGE 27)
(SU-CH40)

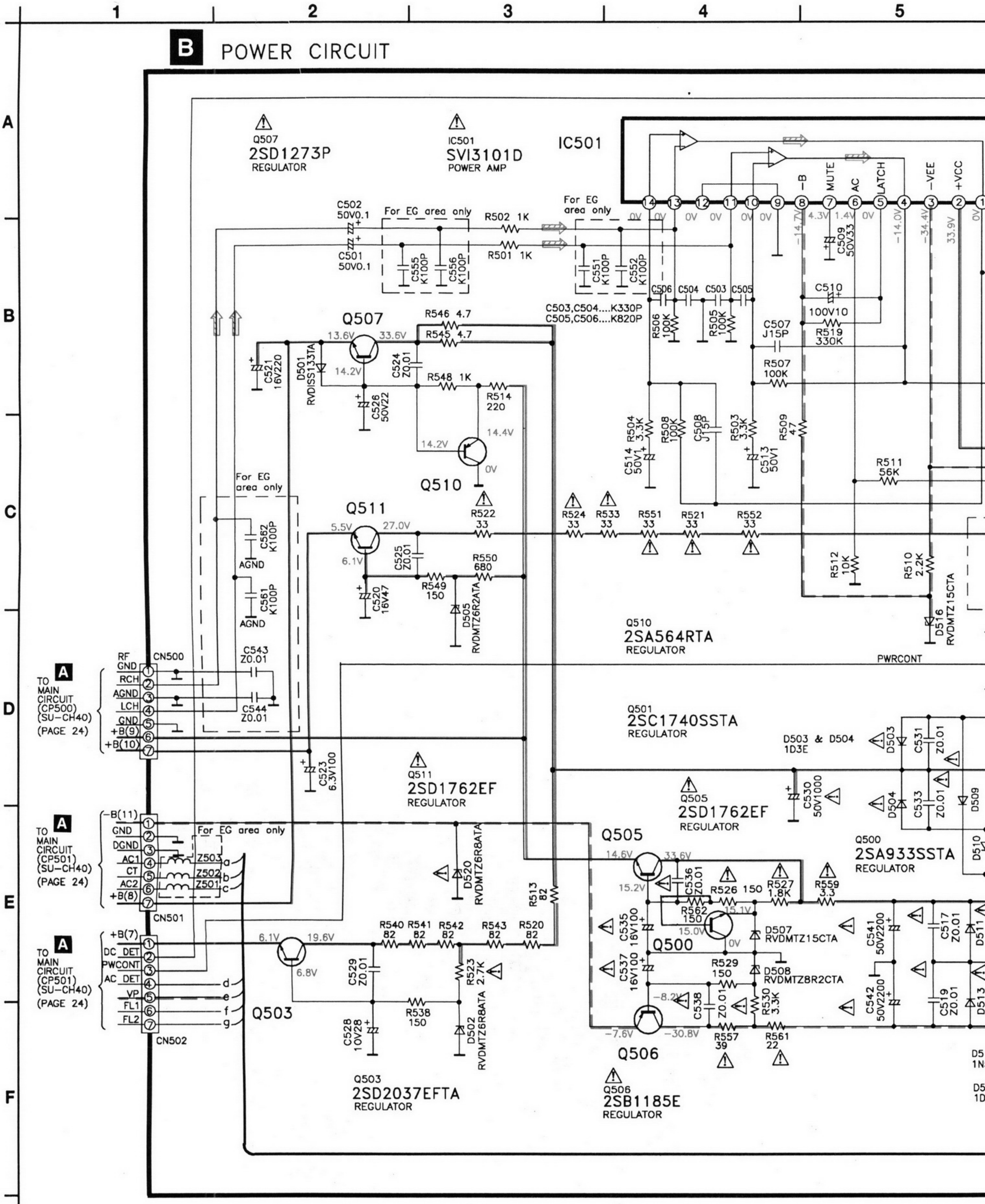
Q219, Q220
RVTDTA143XST
MOTOR DRIVE

Q206, Q207
2SB621RTA
SOLENDID DRIVE

Q218
RVTDTA114EST
SWITCHING
(REC : ON)

IC105
BU2040F-E2
SYSTEM CONTROL
(I/O EXPANDER)

■ SCHEMATIC DIAGRAM



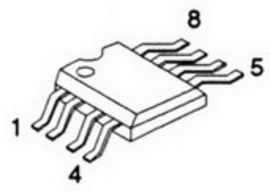
5 6 7 8 9 10

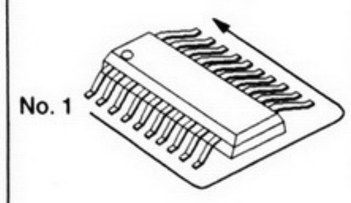
I HEADPHONE CIRCUIT

Q513
Q512
5.4V
5.4V
0V
0V
0V
0V
0V
R563 82K
R564 120K
C532 6.3V100
R565 56K
CN503
W503
R672 82
R674 82
R676 82
R678 82
R671 82
R673 82
R675 82
R677 82
C652 K330P
C651 K330P
JK501 HEADPHONE
L502
AMP(Rch)
R518 10
R516 10
C512 Z0.047
C553 Z0.01....E,EB
C553 Z0.022....EG
C553
JK502 (Lch)
SPEAKER OUT
(Rch)
C554 Z0.01....E,EB
C554 Z0.022....EG
C554
L501
AMP(Lch)
R517 10
R515 10
C511 Z0.047
Q512 ,Q513
2SC1740SSTA
PROTECTOR
C559 M0.01
For EG area ONLY
Q509
2SC2785FTA
RELAY DRIVE
T501
Q508
2SB621ARTA
REGULATOR
For EG area only
CN520
CN521
CN522
CN523
CN524
CN525
CN526
CN527
CN528
CN529
CN512
CN513
CN511
CN510
R510 2.2K
C557 K100P
D516 RVDMTZ15CTA
R536 82
R535 82
C550 J0.22
F1 250V T1A
JK500 AC IN 230V 50Hz... For E & EG areas
230V – 240V 50Hz... For EB area
L500
35.8V ....OFF 0.2V ....ON
RLY501
R539 3.3K
0V....OFF 0.6V....ON
Q509
−31.2V
−30.7V
R556 4.7
D517
−31.8V
C548 Z0.01
R554 470
R555 1.5K
C539 Z0.01
Q508
C547 50V22
D518 MA4300HTA
C549 50V100
R534 82
C531 Z0.01
C533 Z0.01
D509
D510
R525 10K
F3 250V T800mA
F2 250V T800mA
RLY502
D500 RVD1SS133TA
C517 Z0.01
C516 Z0.01
C519 Z0.01
C518 Z0.01
D511
D512
D513
D514
D511 ~ D54 1N5402BM21
D509 & D510 1D3E
D519 RVDMTZ5R1BTA
R531 10K
For EB area only
For EG area ONLY
C540 Z0.01
E2
E1
VP
FL1
FL2
AC1
AC2
CT
a
b
c
d
e
f
g

■ TERMINAL GUIDE OF ICs, TRANSISTORS AND DIODES

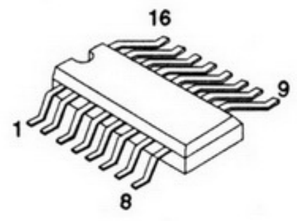
BA4558FDXE2





BU2040F-E2	16Pin
CXA1102M-T4	16Pin
M51167BFP-E1	36Pin
LA5608-TE-L	14Pin

UPD4052BG-E2



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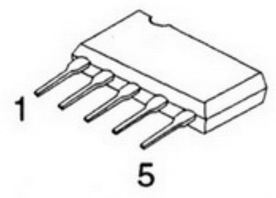
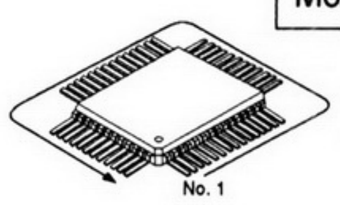
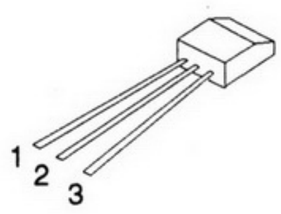


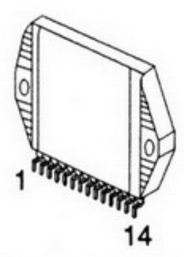
M38173M6272	80Pin
M62408FP	100Pin



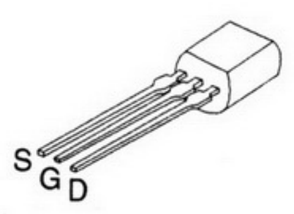
DN6851ALB



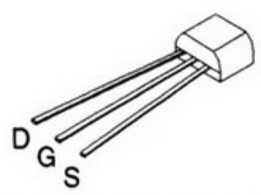
SVI3101D

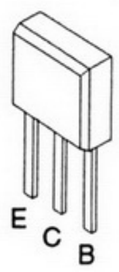


2SK301QTA

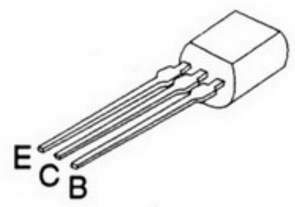


2SJ40CDTA
2SJ40CTA
2SK381CTA



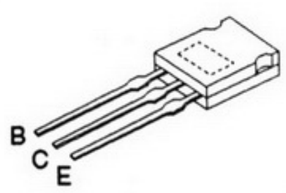


2SC2784FTA
2SD1450STA
2SC2785FTA
2SA933SSTA
2SD1020HTA

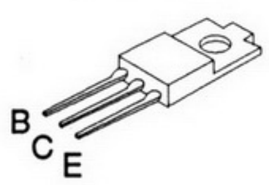


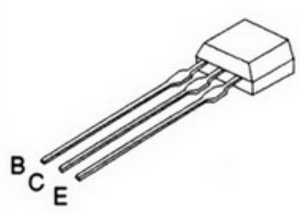
2SB621RTA
2SD965RTA
2SA564RTA
2SB621ARTA

2SD2037EFTA



2SB1185E
2SD1762EF
2SD1273P

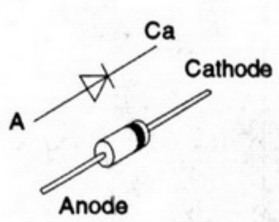




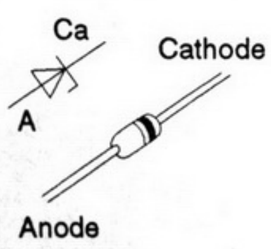
RVTDTA114EST
RVTDTC124EST
RVTDTA143XST
RVTDTC144TST
RVTDTA114TST
RVTDTA124EST
RVTDTA144TST
RVTDTC114TST

RVTDTC144EST
2SC1740SLNET
2SC1740SLNST
2SC1740SSTA

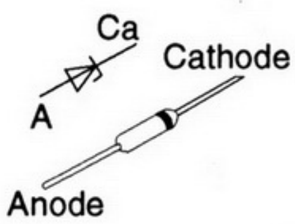
1D3E
1N5402BM21



MA4300HTA

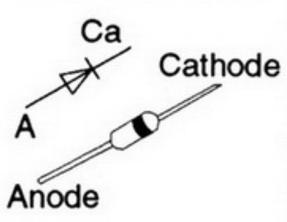


RVDMT4R7BTA

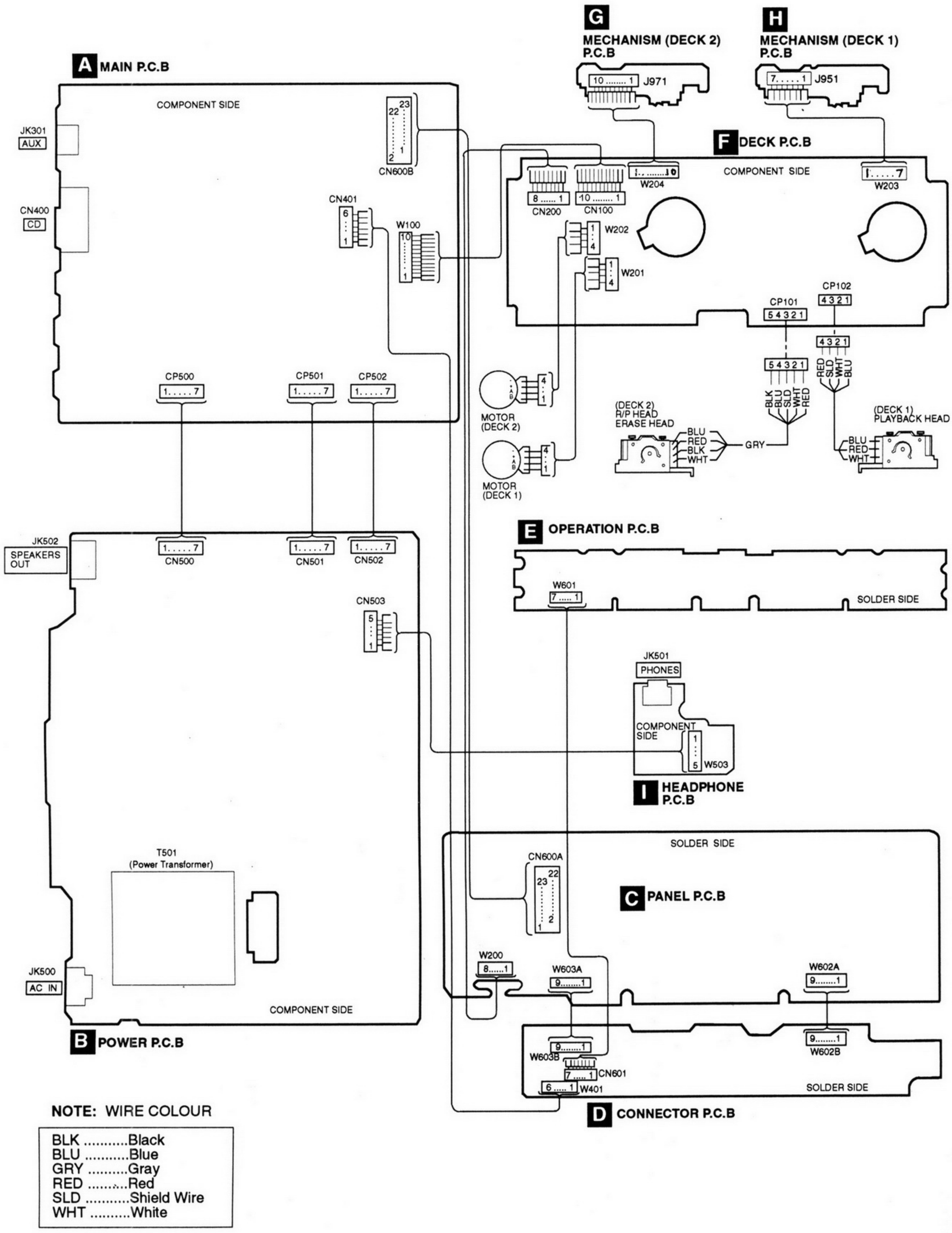


RVDMTZ3R6BTA
RVDMTZ8R2CTA
RVDMTZ15CTA
RVDMTZ10BTA
RVDMTZ6R8ATA
RVDMTZ6R8BTA
RVDMTZ5R1BTA
RVDMTZ6R2ATA

1SS291TA
RVD1SS133TA



■ WIRING CONNECTION DIAGRAM



NOTE: WIRE COLOUR

BLK	Black
BLU	Blue
GRY	Gray
RED	Red
SLD	Shield Wire
WHT	White