JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

DX-MX90BK
CA-MX90BK
(UNIT No. AX-MX90BK)

* For instruction manual , please refer to the CA-MX90BK(SM.NO.20267) or DX-MX90BK(SM.NO.20268) .

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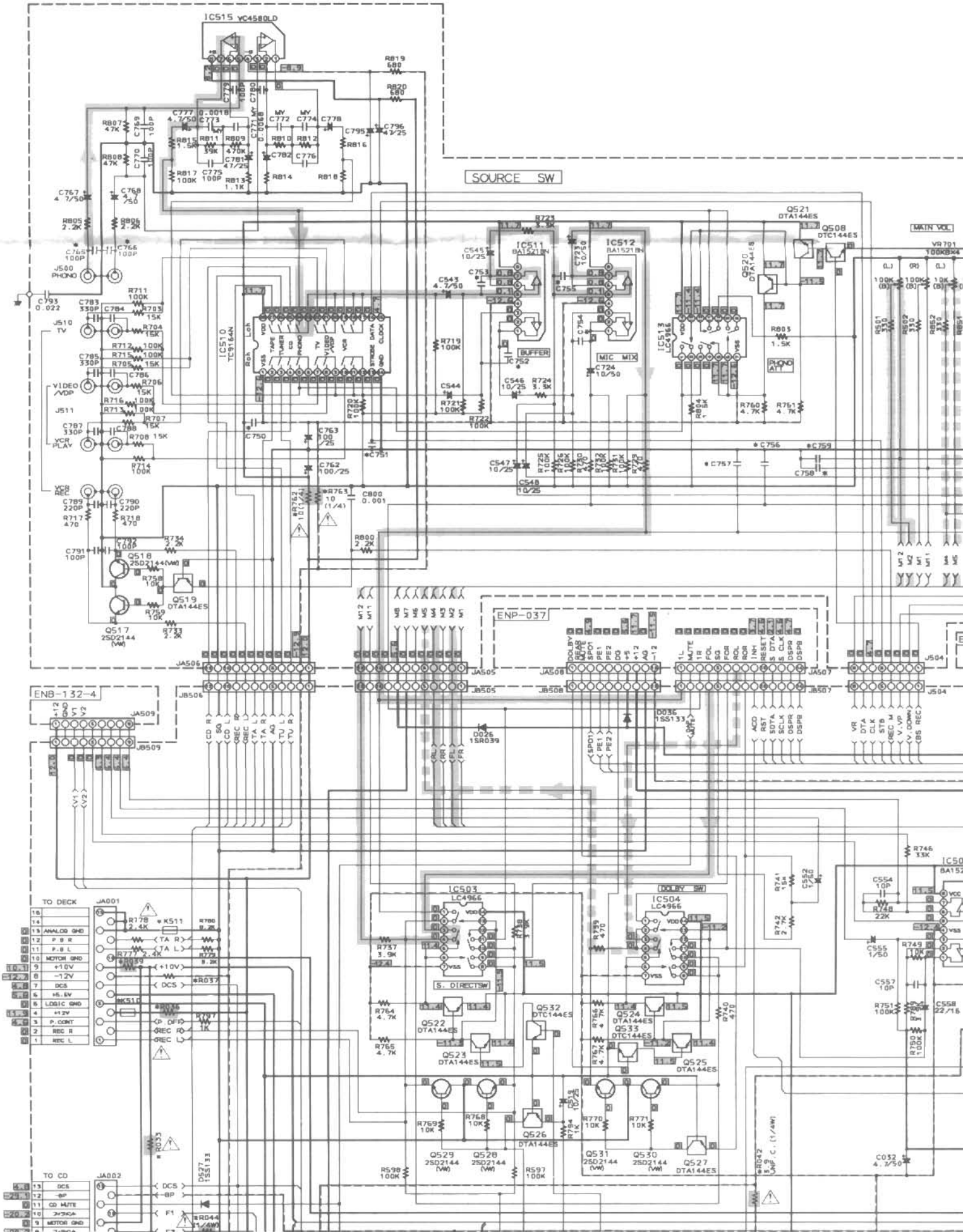
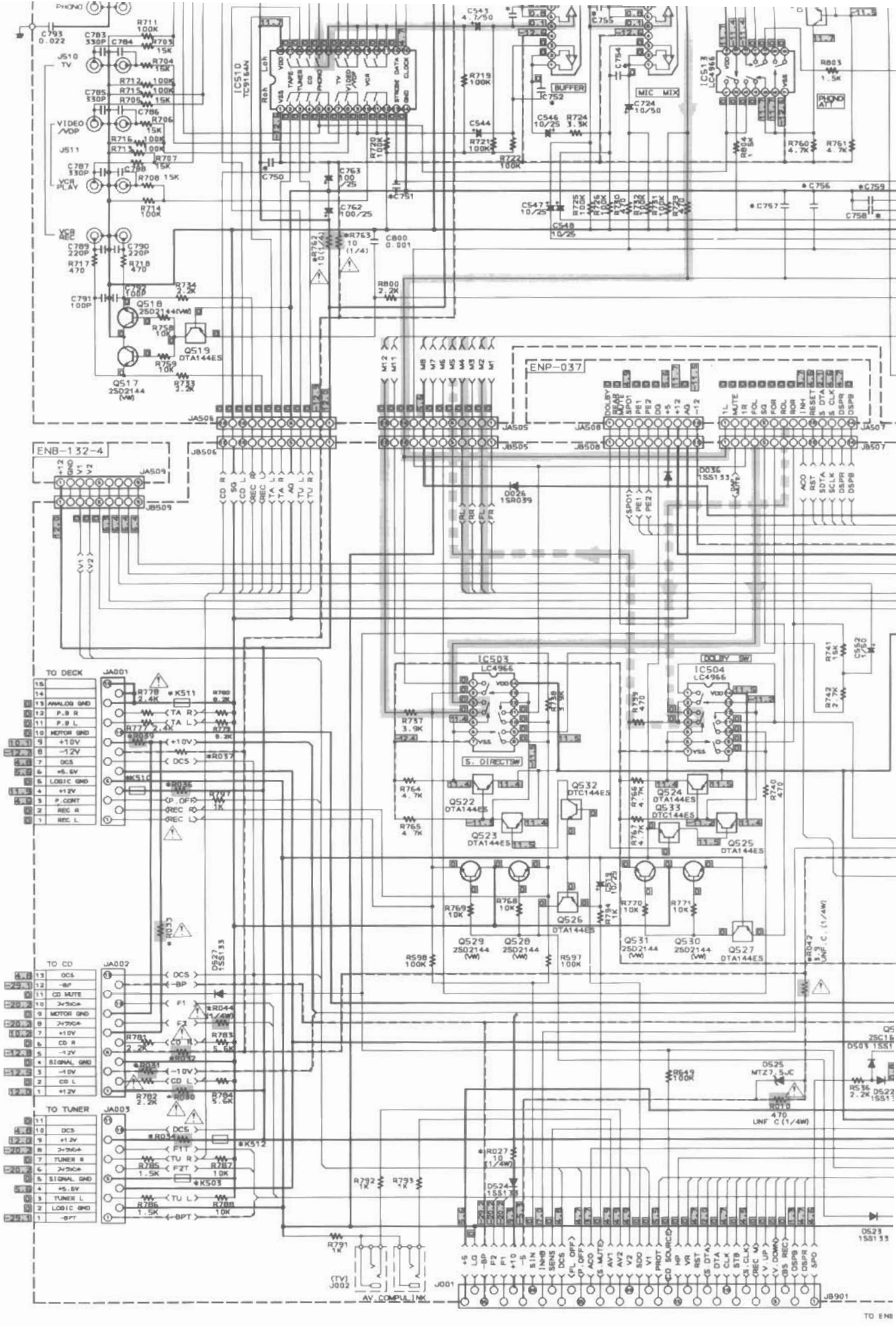
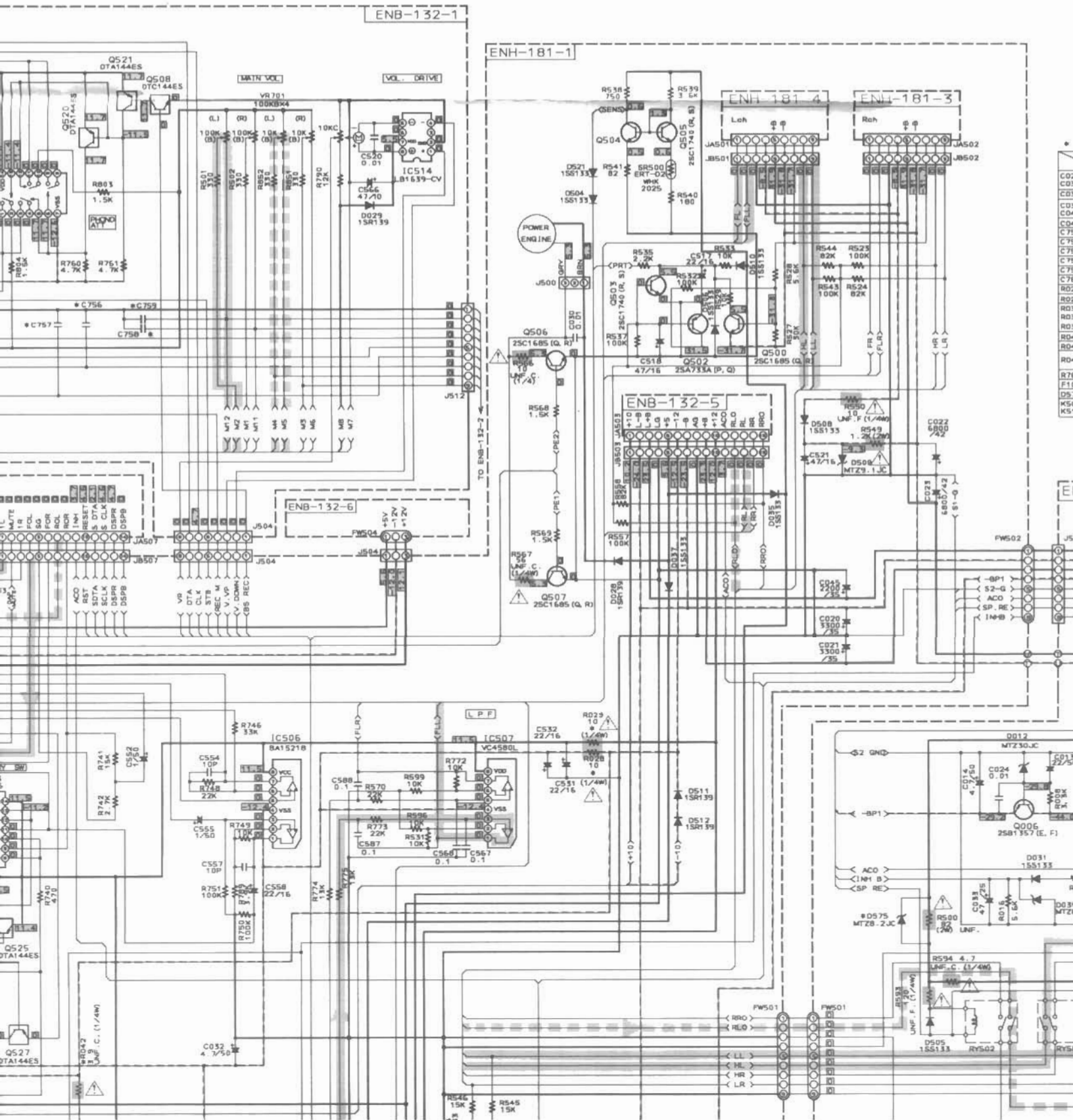
No. 20269
Jun. 1991

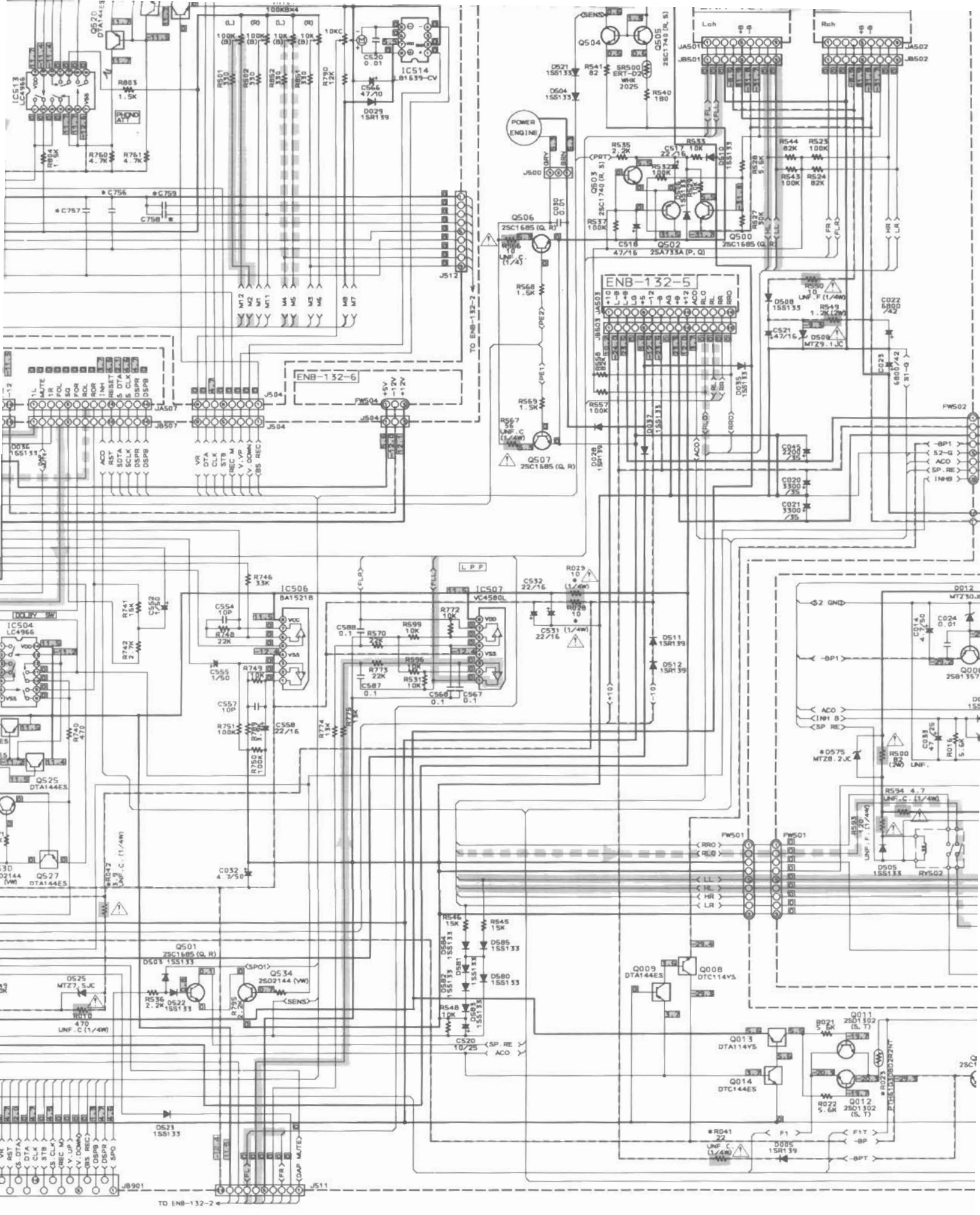
Schematic Diagrams

1. Source Select & Speaker Terminal Section




ENP-037
ENB-132-4
IC503
LC4966
IC504
LC4966
IC510
TC9164N
IC513
LC4966
BUFFER
MIC MIX
PHONO ATT
DOLBY SW
S. DIRECT SW
TO DECK
JA001
TO CD
JA002
TO TUNER
JA003
AV COMPULINK
J001
JB901
TO ENB


ENB-132-1
ENH-181-1
ENH-181-4
ENH-181-3
ENB-132-5
ENB-132-6
MAIN VOL
VOL. DRIVE
PHONO AT
POWER ENGINE
TO ENB-132-2
L P F
Lch
Rch
Q521 DTA144ES
Q508 DTC144ES
Q520 DTA144ES
Q504
Q505 2SC1740 (R, S)
Q503 2SC1740 (R, S)
Q506 2SC1685 (Q, R)
Q507 2SC1685 (Q, R)
Q502 2SA733A (P, Q)
Q500 2SC1685 (Q, R)
Q525 DTA144ES
Q527 DTA144ES
Q006 2SB1357 (E, F)
IC514 LB1639-CV
IC506 BA15218
IC507 VC4580L
VR701 100KBX4
D029 1SR139
D028 1SR139
D511 1SR139
D512 1SR139
D012 MTZ30JC
D508 1SS133
D509 MTZ9.1JC
D505 1SS133
*D575 MTZ8.2JC
D521 1SS133
D504 1SS133
D510 1SS133
D035 1SS133
D037 1SS133
D031 1SS133
JAS01
JBS01
JAS02
JBS02
JAS03
JBS03
JAS07
JBS07
J500
J504
J512
FWS01
FWS02
FWS04
RYS02
SENS
PRT
PE1
PE2
FLL
FLR
RLO
RRO
LL
ML
HR
LR
ACO
INH B
SP RE
-BP1
S2 GND
S2-G
SP. RE
INHB
VCC
VDD
VSS
VR
DTA
CLK
STB
REC M
V. VP
V. DOWN
BS REC
RESET
S DTA
S CLK
DSPR
DSPB
SDTA
SCLK
MUTE
SG
FOR
ROL
ROR
INH
+5V
-12V
+12V


ENB-132-5
ENB-132-6
IC514 BI639-CV
IC506 BA15218
IC507 VC4580L
IC504 LC4966
IC513 LC4966
Q501 2SC1685 (Q, R)
Q502 2SA733A (P, Q)
Q503 2SC1740 (R, S)
Q504 2SC1740 (R, S)
Q505 2SC1740 (R, S)
Q506 2SC1685 (Q, R)
Q507 2SC1685 (Q, R)
Q500 2SC1685 (Q, R)
Q534 2SD2144 (VW)
Q008 DTC114YS
Q009 DTA144ES
Q011 2SD1302 (S, T)
Q012 2SD1302 (S, T)
Q013 DTA114YS
Q014 DTC144ES
Q520 DTA144ES
Q525 DTA144ES
Q527 DTA144ES
POWER ENGINE
TO ENB-132-2
TO ENB-132-2
L P F
DOLBY SW
PHONO AT
Lch
Rch
JA501
JA502
JB501
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SENS
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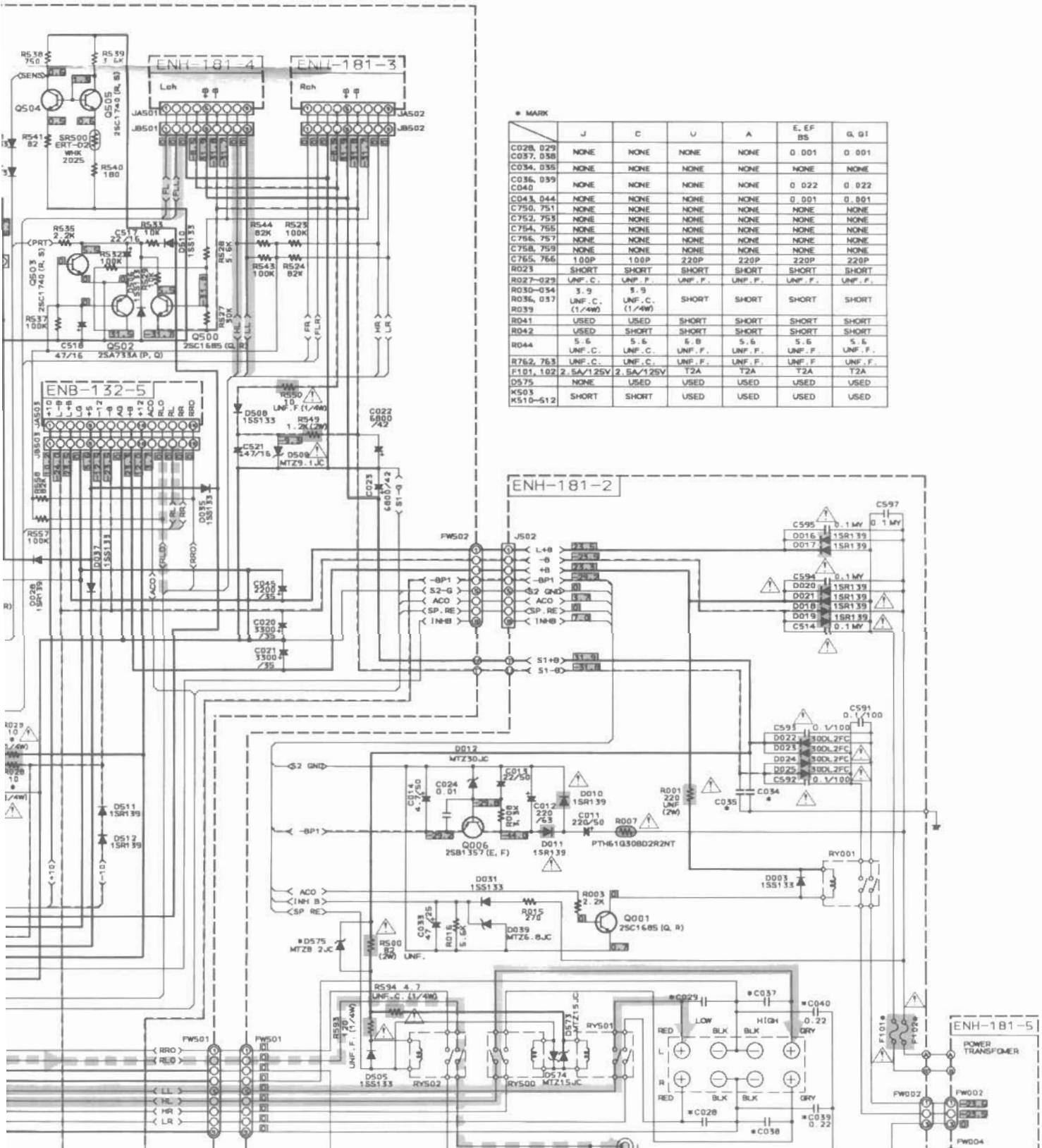
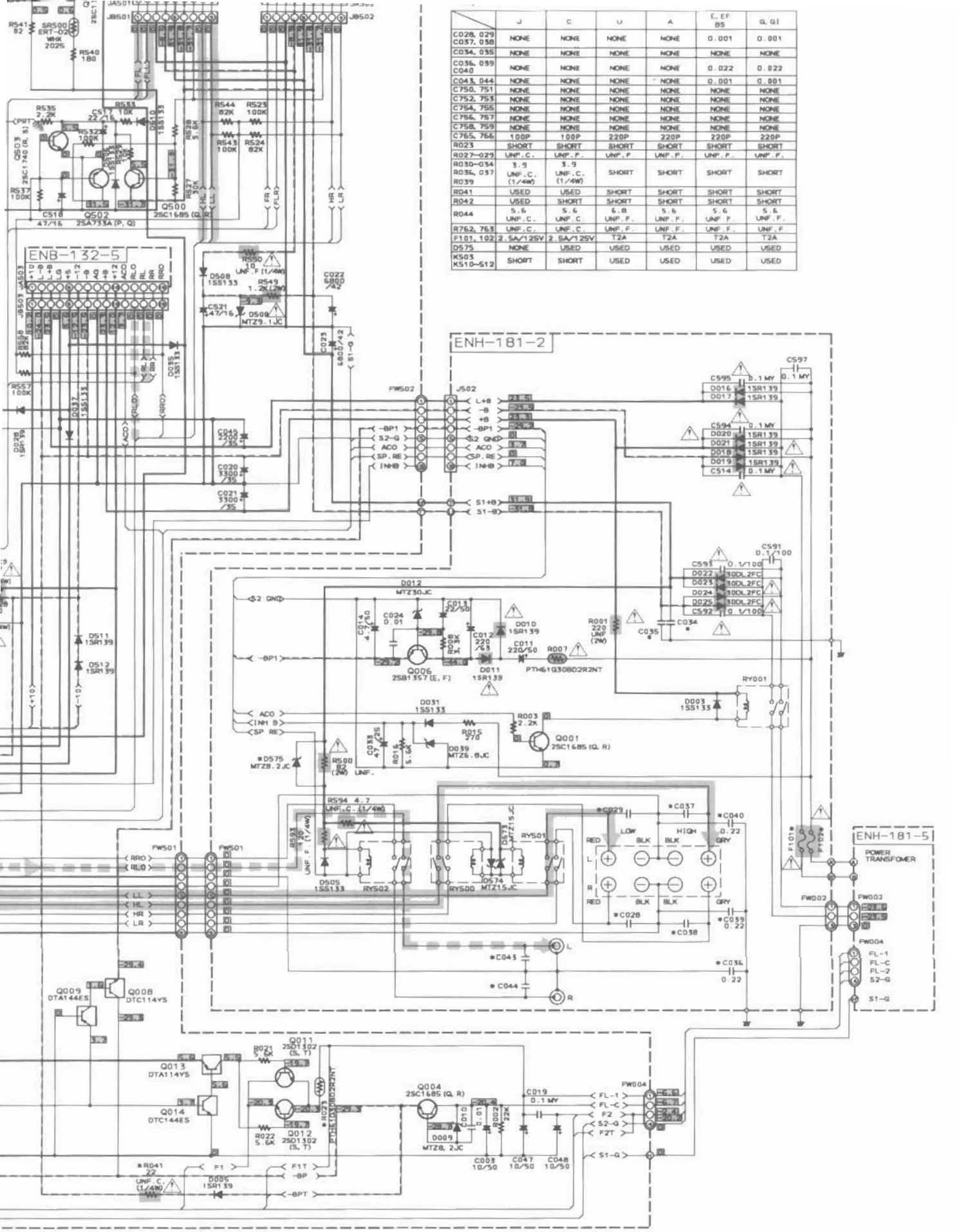


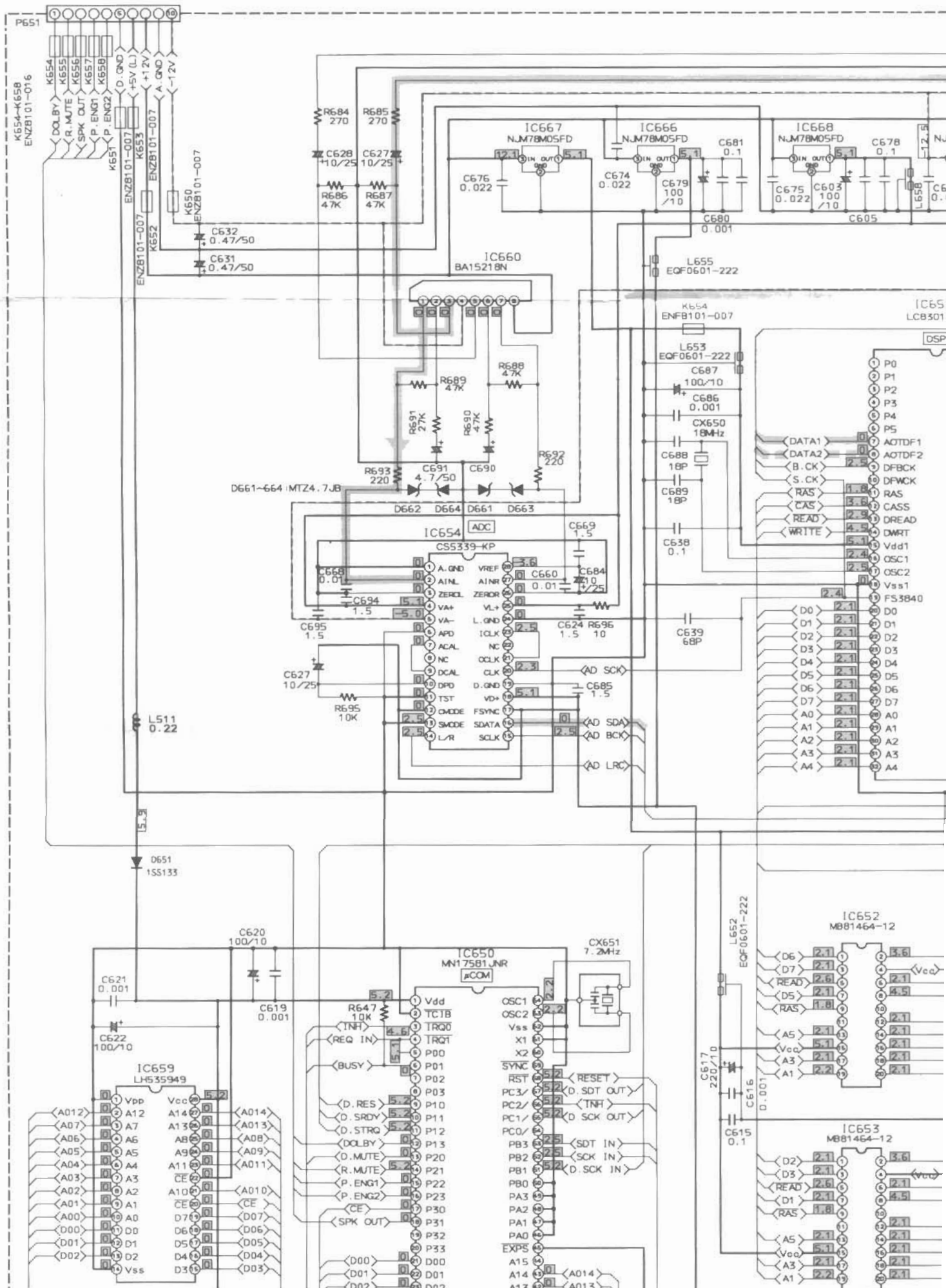
* MARK

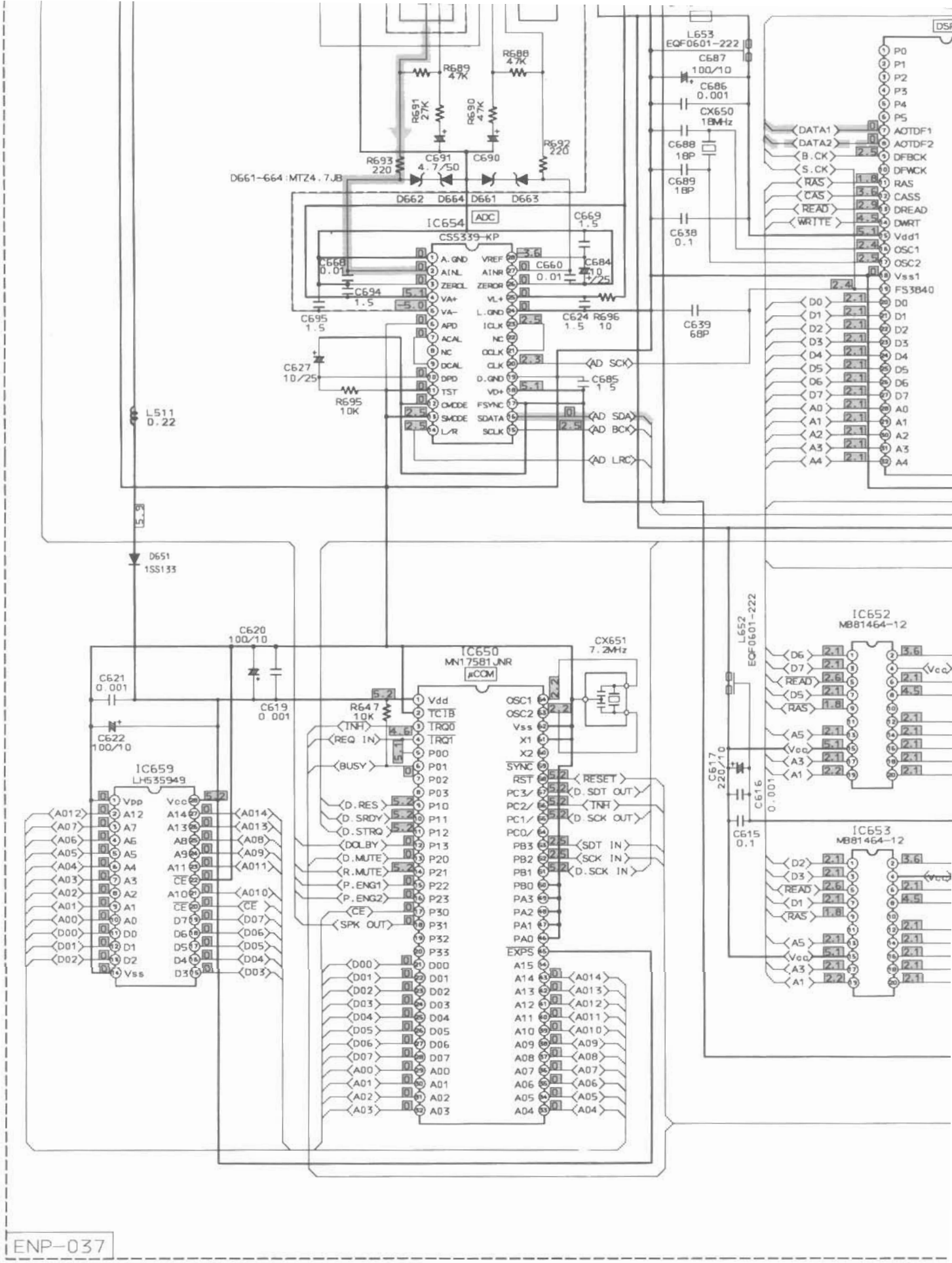
	J	C	U	A	E, EF BS	G, GI
C028, 029 C037, 038	NONE	NONE	NONE	NONE	0.001	0.001
C034, 035	NONE	NONE	NONE	NONE	NONE	NONE
C036, 039 C040	NONE	NONE	NONE	NONE	0.022	0.022
C043, 044	NONE	NONE	NONE	NONE	0.001	0.001
C750, 751	NONE	NONE	NONE	NONE	NONE	NONE
C752, 753	NONE	NONE	NONE	NONE	NONE	NONE
C754, 755	NONE	NONE	NONE	NONE	NONE	NONE
C756, 757	NONE	NONE	NONE	NONE	NONE	NONE
C758, 759	NONE	NONE	NONE	NONE	NONE	NONE
C765, 766	100P	100P	220P	220P	220P	220P
R023	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT
R027-029	UNF.C.	UNF.F.	UNF.F.	UNF.F.	UNF.F.	UNF.F.
R030-034 R036, 037 R039	3.9 UNF.C. (1/4W)	3.9 UNF.C. (1/4W)	SHORT	SHORT	SHORT	SHORT
R041	USED	USED	SHORT	SHORT	SHORT	SHORT
R042	USED	SHORT	SHORT	SHORT	SHORT	SHORT
R044	5.6 UNF.C.	5.6 UNF.C.	6.8 UNF.F.	5.6 UNF.F.	5.6 UNF.F	5.6 UNF.F.
R762, 763	UNF.C.	UNF.C.	UNF.F.	UNF.F.	UNF.F	UNF.F.
F101, 102	2.5A/125V	2.5A/125V	T2A	T2A	T2A	T2A
D575	NONE	USED	USED	USED	USED	USED
*S03 *S10-S12	SHORT	SHORT	USED	USED	USED	USED



	J	C	U	A	E, EF BS	G, GI
C028, 029 C037, 038	NONE	NONE	NONE	NONE	0.001	0.001
C034, 035	NONE	NONE	NONE	NONE	NONE	NONE
C036, 039 C040	NONE	NONE	NONE	NONE	0.022	0.022
C043, 044	NONE	NONE	NONE	NONE	0.001	0.001
C750, 751	NONE	NONE	NONE	NONE	NONE	NONE
C752, 753	NONE	NONE	NONE	NONE	NONE	NONE
C754, 755	NONE	NONE	NONE	NONE	NONE	NONE
C756, 757	NONE	NONE	NONE	NONE	NONE	NONE
C758, 759	NONE	NONE	NONE	NONE	NONE	NONE
C765, 766	100P	100P	220P	220P	220P	220P
R023	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT
R027-029	UNF.C.	UNF.F.	UNF.F	UNF.F.	UNF.F.	UNF.F.
R030-034 R036, 037 R039	3.9 UNF.C. (1/4W)	3.9 UNF.C. (1/4W)	SHORT	SHORT	SHORT	SHORT
R041	USED	USED	SHORT	SHORT	SHORT	SHORT
R042	USED	SHORT	SHORT	SHORT	SHORT	SHORT
R044	5.6 UNF.C.	5.6 UNF.C.	6.8 UNF.F.	5.6 UNF.F.	5.6 UNF.F.	5.6 UNF.F.
R762, 763	UNF.C.	UNF.C.	UNF.F.	UNF.F.	UNF.F.	UNF.F
F101, 102	2.5A/125V	2.5A/125V	T2A	T2A	T2A	T2A
D575	NONE	USED	USED	USED	USED	USED
K503 K510-512	SHORT	SHORT	USED	USED	USED	USED

2. DAP Section

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C689
18P
C638
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R688
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R689
47K
R691
27K
R690
47K
R692
220
R693
220
C691
4.7/50
C690
D661-664:MTZ4.7JB
D662 D664 D661 D663
IC654
ADC
CS5339-KP
C669
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C668
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C694
1.5
C695
1.5
C660
0.01
C684
10
C624
1.5
R696
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L511
0.22
C685
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AD SCK
AD SDA
AD BCK
AD LRC
D651
1SS133
C620
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C621
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C622
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C619
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IC650
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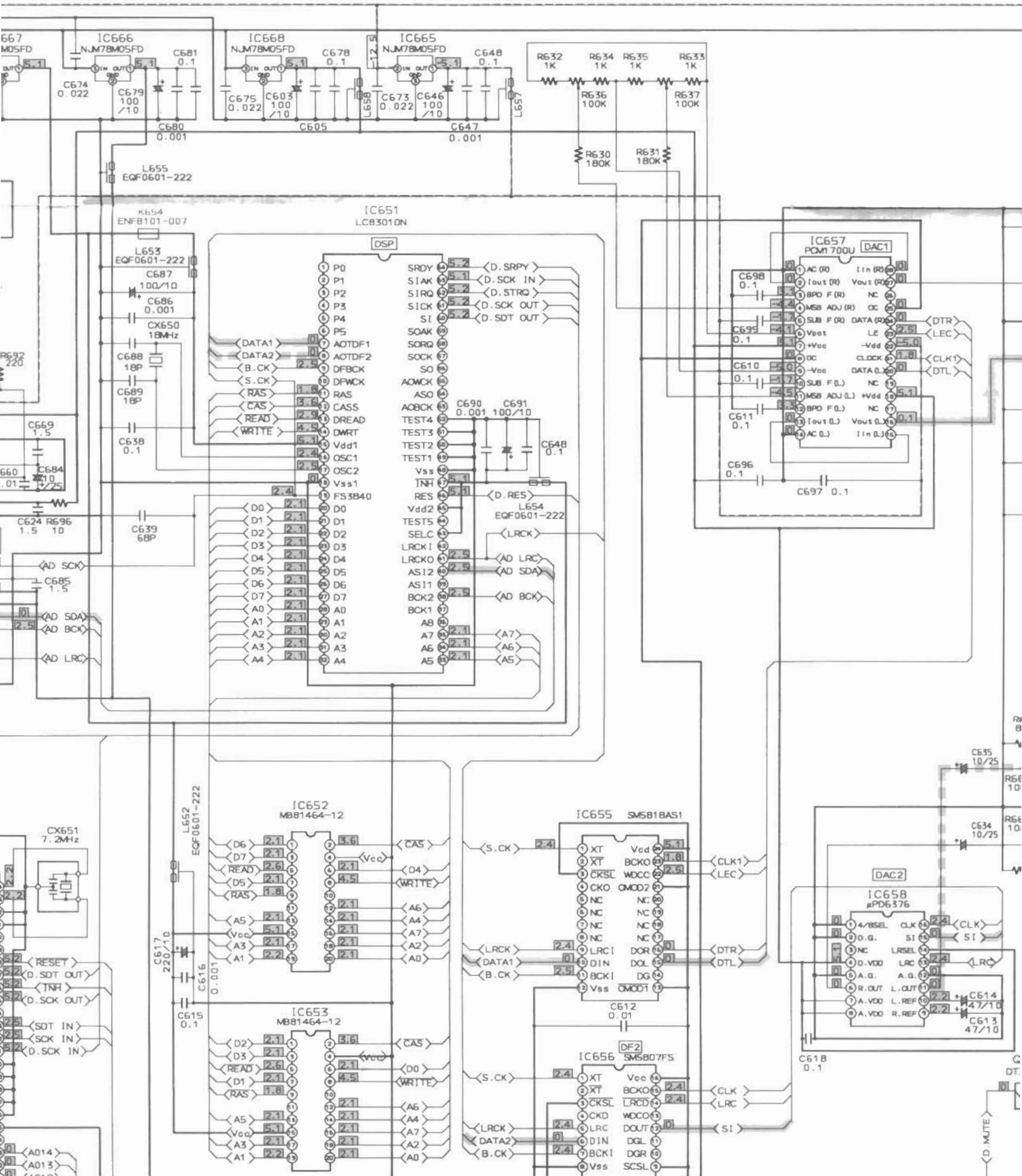
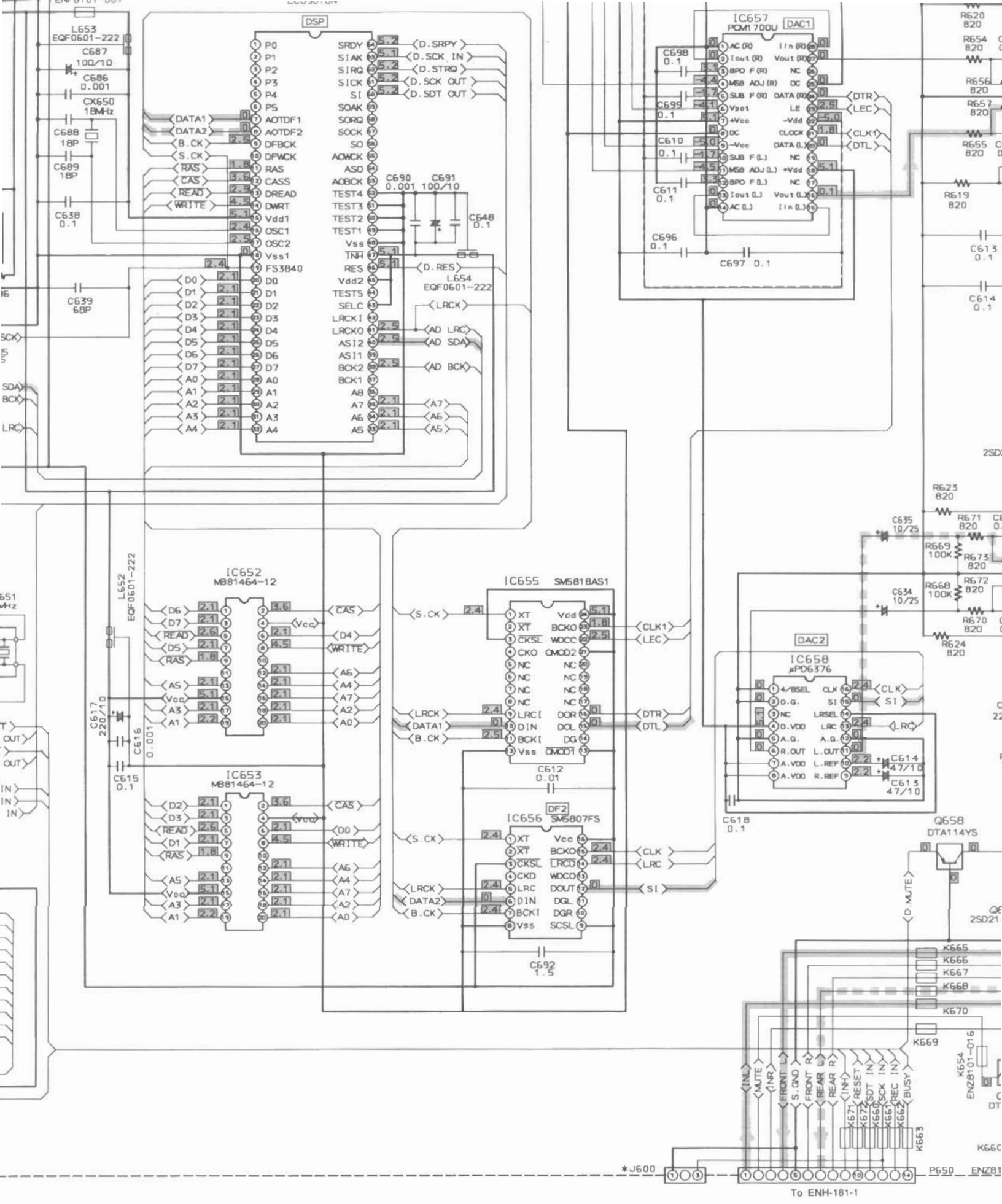
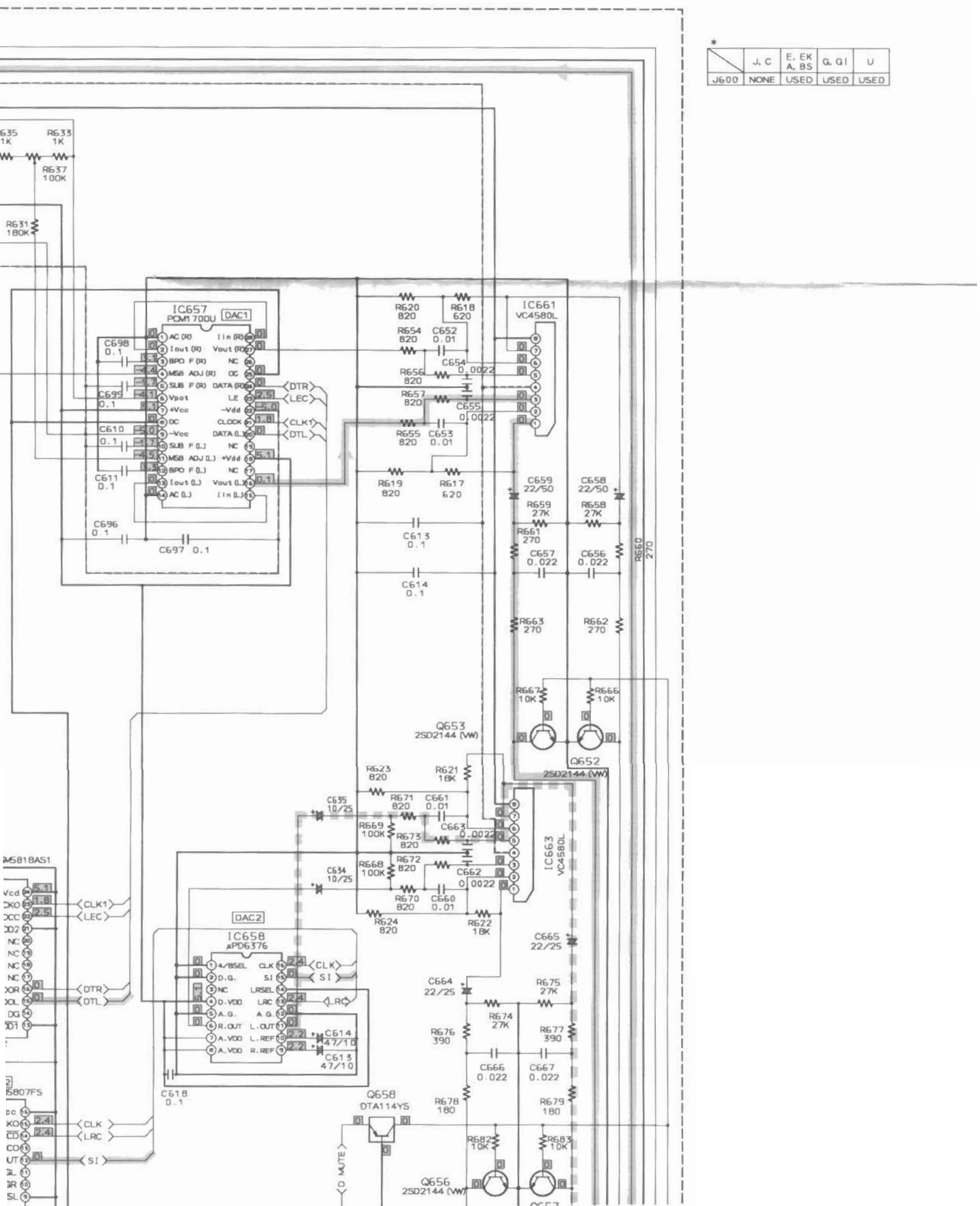
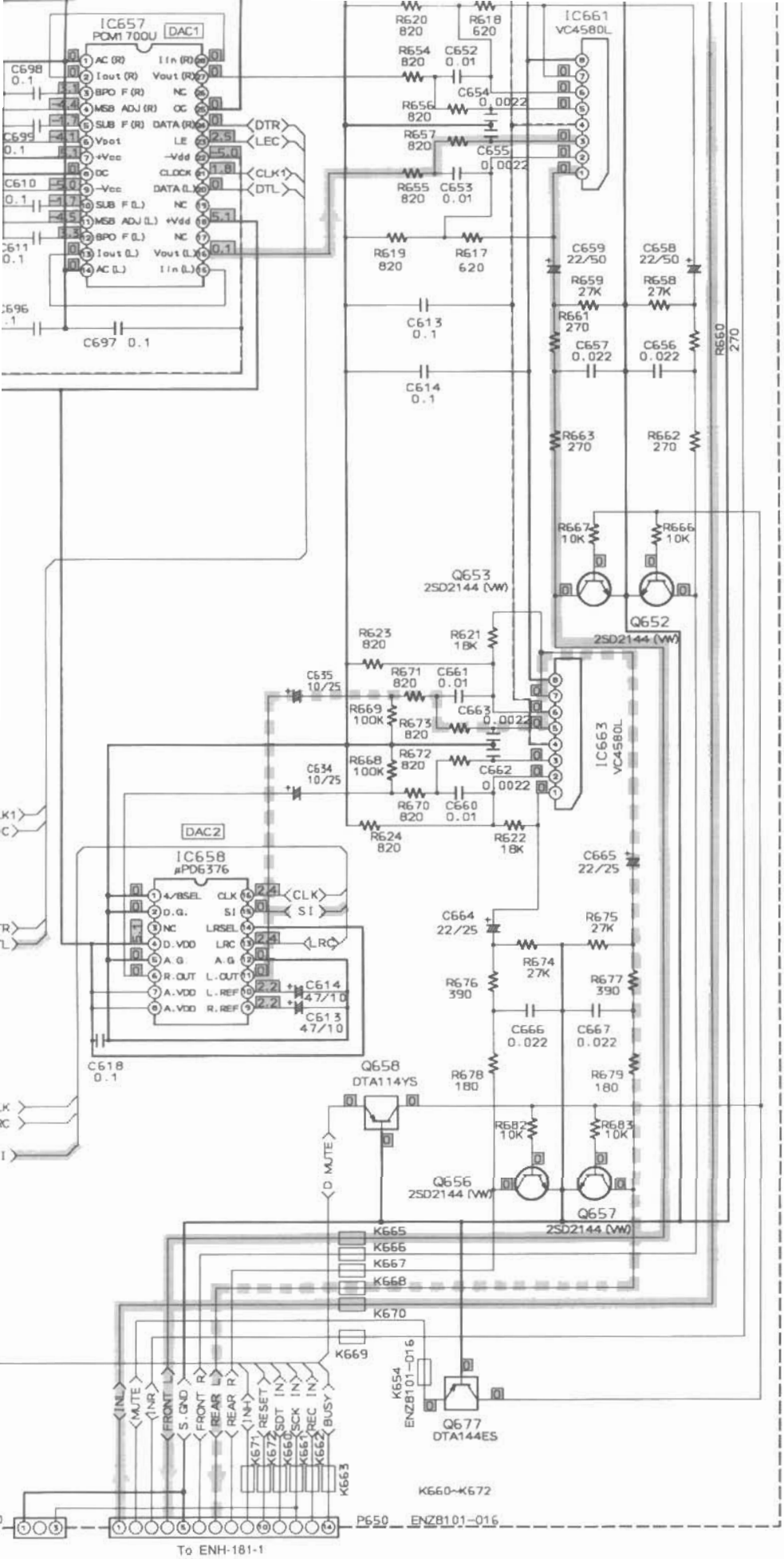
R647
10K
IC659
LH535949
L652
EQF0601-222
IC652
MB81464-12
IC653
MB81464-12
C617
220/10
C616
0.001
C615
0.1
ENP-037

(No. 20269)

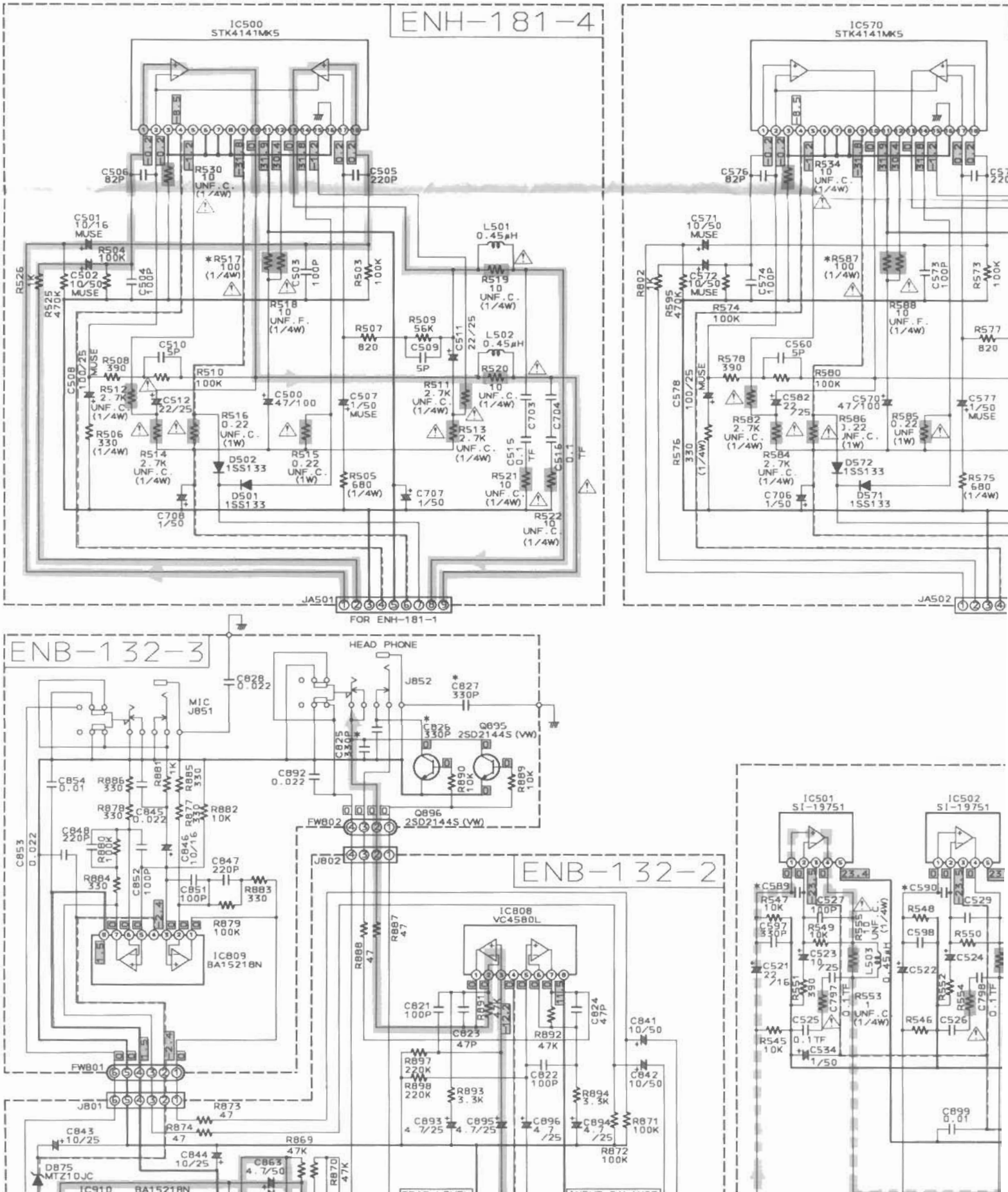

IC666 NJM78M05FD
IC668 NJM78M05FD
IC665 NJM78M05FD
R632 1K
R634 1K
R635 1K
R633 1K
R636 100K
R637 100K
R630 180K
R631 180K
L655 EQF0601-222
K654 ENFB101-007
IC651 LC83010N
DSP
L653 EQF0601-222
C687 100/10
C686 0.001
CX650 18MHz
C688 18P
C689 18P
C638 0.1
C639 68P
C624 1.5
R696 10
C669 1.5
C684 10 /25
C685 1.5
L654 EQF0601-222
C690 0.001
C691 100/10
C648 0.1
IC657 PCM1700U
DAC1
C698 0.1
C695 0.1
C610 0.1
C611 0.1
C696 0.1
C697 0.1
IC652 MB81464-12
IC653 MB81464-12
L652 EQF0601-222
CX651 7.2MHz
C617 220/10
C616 0.001
C615 0.1
IC655 SM5818AS1
C612 0.01
DF2
IC656 SM5807FS
IC658 μPD6376
DAC2
C635 10/25
C634 10/25
C614 47/10
C613 47/10
C618 0.1
P0 P1 P2 P3 P4 P5 DATA1 DATA2 B.CK S.CK RAS CAS READ WRITE Vdd1 OSC1 OSC2 Vss1 FS384O D0 D1 D2 D3 D4 D5 D6 D7 A0 A1 A2 A3 A4
SRDY SIAK SIRQ SICK SI SOAK SORQ SOCK SO AOWCK ASO AOBCK TEST4 TEST3 TEST2 TEST1 Vss INH RES Vdd2 TEST5 SELC LRCKI LRCKO ASI2 ASI1 BCK2 BCK1 A8 A7 A6 A5
D.SRPY D.SCK IN D.STRQ D.SCK OUT D.SDT OUT D.RES LRCK AD LRC AD SDA AD BCK A7 A6 A5
AD SCK AD SDA AD BCK AD LRC
RESET D.SDT OUT INH D.SCK OUT SDT IN SCK IN D.SCK IN
A014 A013
DTR LEC CLK1 DTL
S.CK DATA1 B.CK DATA2 SI D.MUTE

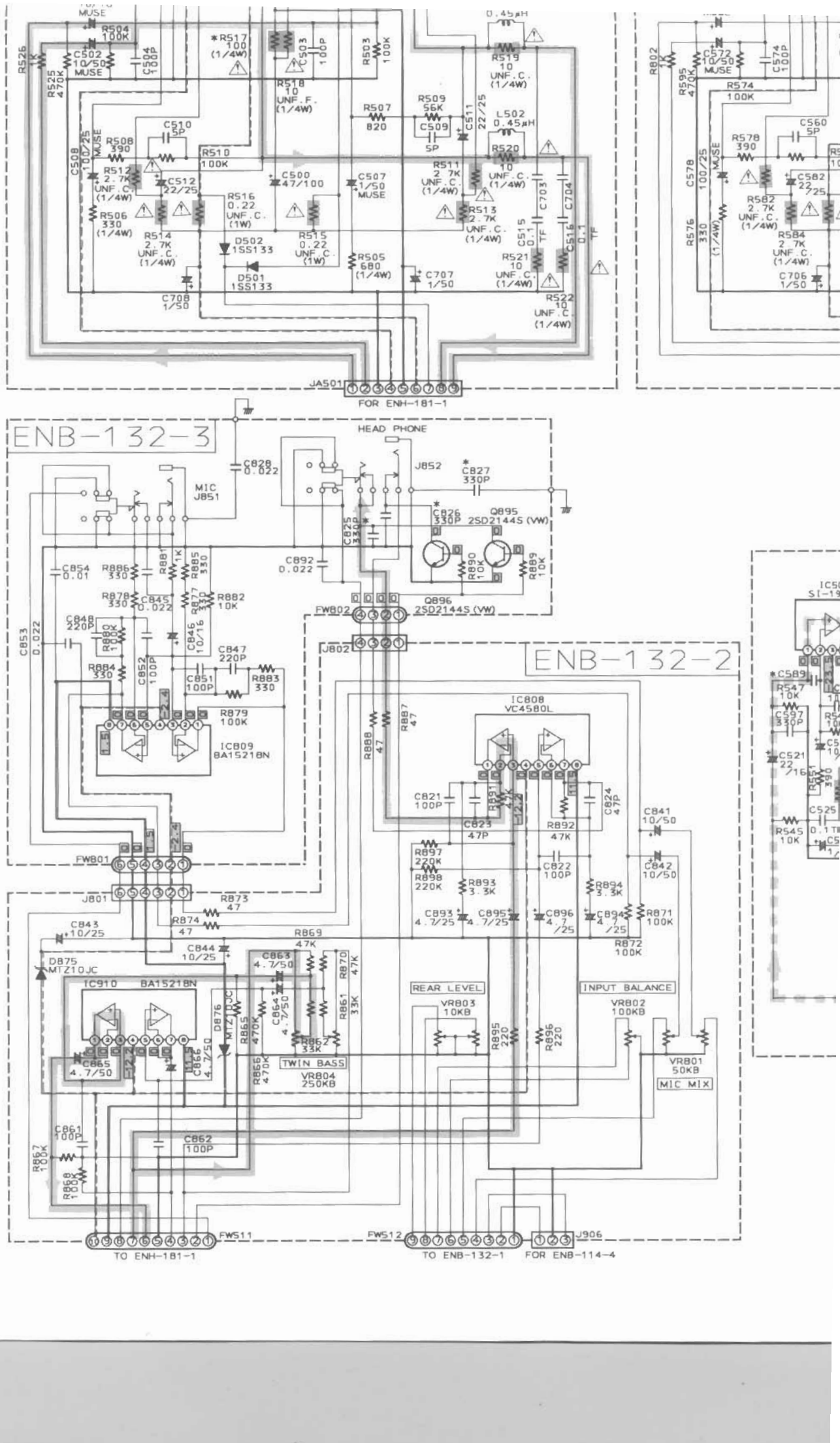

DSP
IC657 PCM1700U DAC1
IC652 MB81464-12
IC653 MB81464-12
IC655 SM5818AS1
IC656 SM5807FS DF2
DAC2
IC658 μPD6376
Q658 DTA114YS
L653 EQF0601-222
L654 EQF0601-222
L652 EQF0601-222
CX650 18MHz
*J600
P650
To ENH-181-1

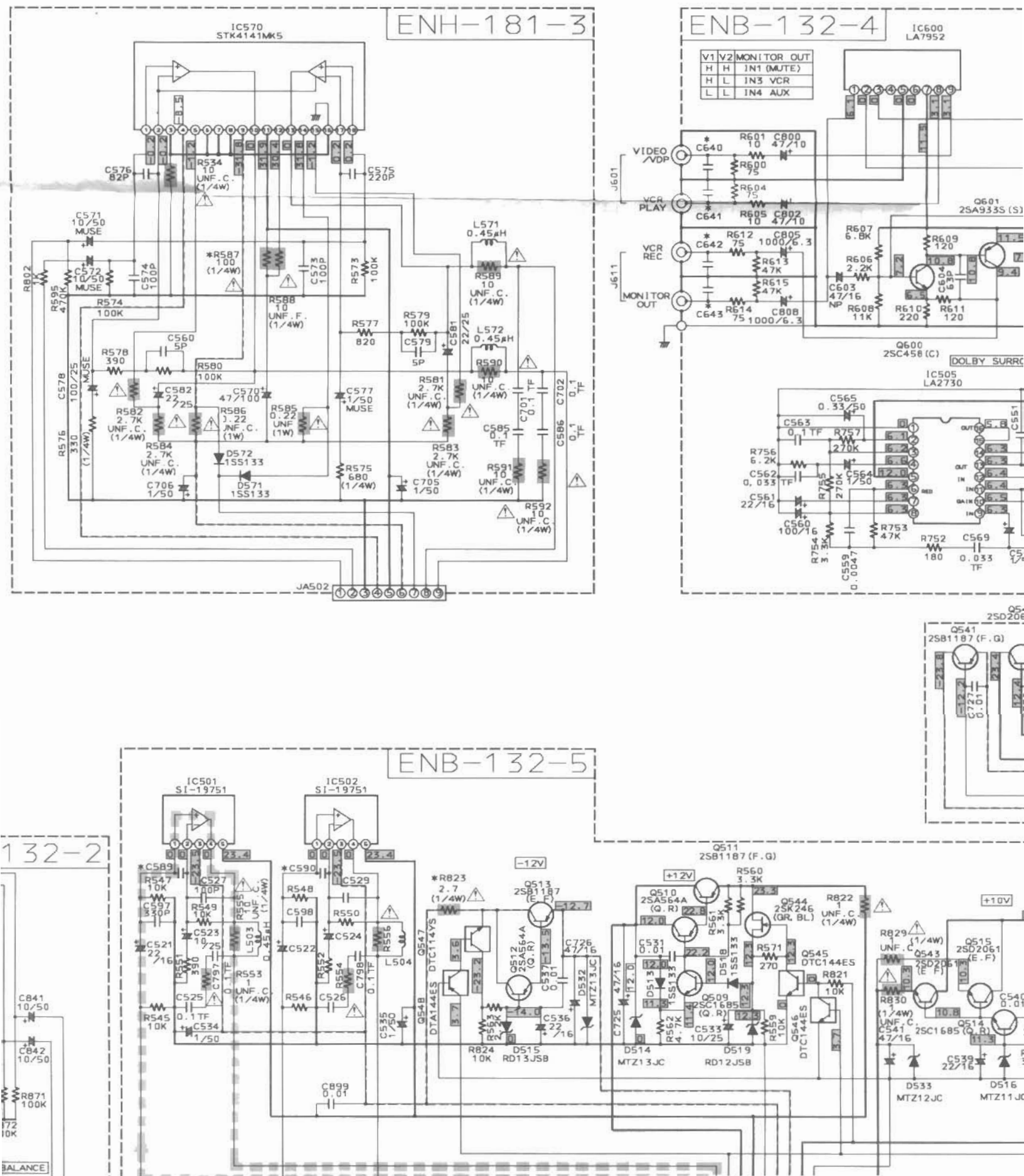

*
J, C
E, EK
A, BS
G, GI
U
J600
NONE
USED
USED
USED
R635 1K
R633 1K
R637 100K
R631 180K
IC657
PCM1700U
DAC1
C698 0.1
C699 0.1
C610 0.1
C611 0.1
C696 0.1
C697 0.1
DTR
LEC
CLK1
DTL
R620 820
R618 620
IC661
VC4580L
R654 820
C652 0.01
C654 0.0022
R656 820
R657 820
C655 0.0022
R655 820
C653 0.01
R619 820
R617 620
C659 22/50
C658 22/50
R659 27K
R658 27K
R661 270
C657 0.022
C656 0.022
R650 270
C613 0.1
C614 0.1
R663 270
R662 270
R667 10K
R666 10K
Q653
2SD2144 (VW)
Q652
2SD2144 (VW)
R623 820
R621 18K
C635 10/25
R671 820
C661 0.01
R669 100K
R673 820
C663 0.0022
IC663
VC4580L
C634 10/25
R668 100K
R672 820
C662 0.0022
R670 820
C660 0.01
R624 820
R622 18K
C665 22/25
DAC2
IC658
μPD6376
C664 22/25
R675 27K
R674 27K
R676 390
R677 390
C666 0.022
C667 0.022
C618 0.1
R678 180
R679 180
Q658
DTA114YS
R682 10K
R683 10K
Q656
2SD2144 (VW)
MS818AS1
CLK1
LEC
DTR
DTL
5807FS
CLK
LRC
SI
D MUTE

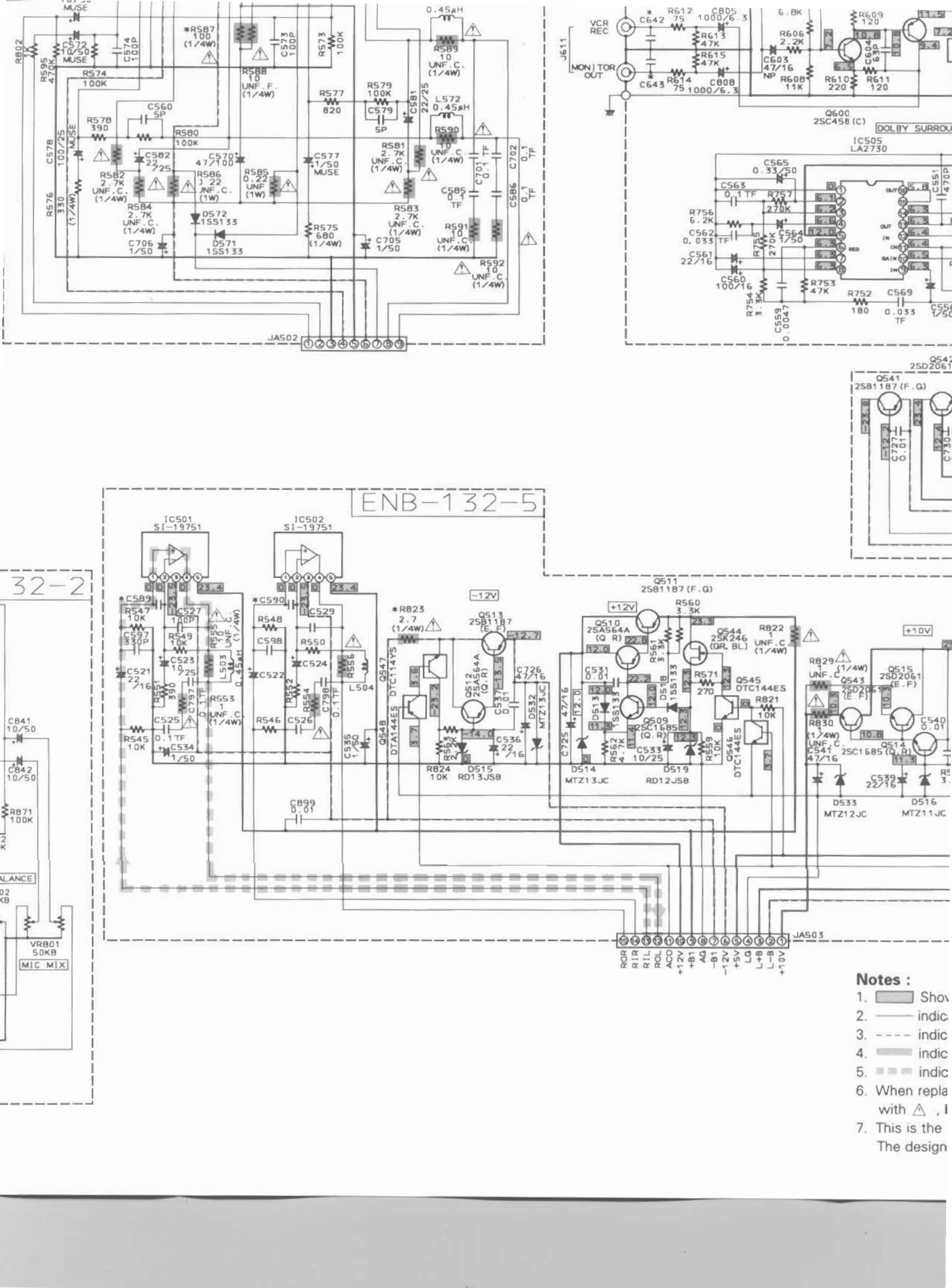

IC657
PCM1700U
DAC1
IC661
VC4580L
IC663
VC4580L
DAC2
IC658
μPD6376
Q653
2SD2144 (VW)
Q652
2SD2144 (VW)
Q656
2SD2144 (VW)
Q657
2SD2144 (VW)
Q658
DTA114YS
Q677
DTA144ES
P650 ENZ8101-016
To ENH-181-1
K660~K672
DTR
LEC
CLK1
DTL
CLK
SI
LR
D MUTE

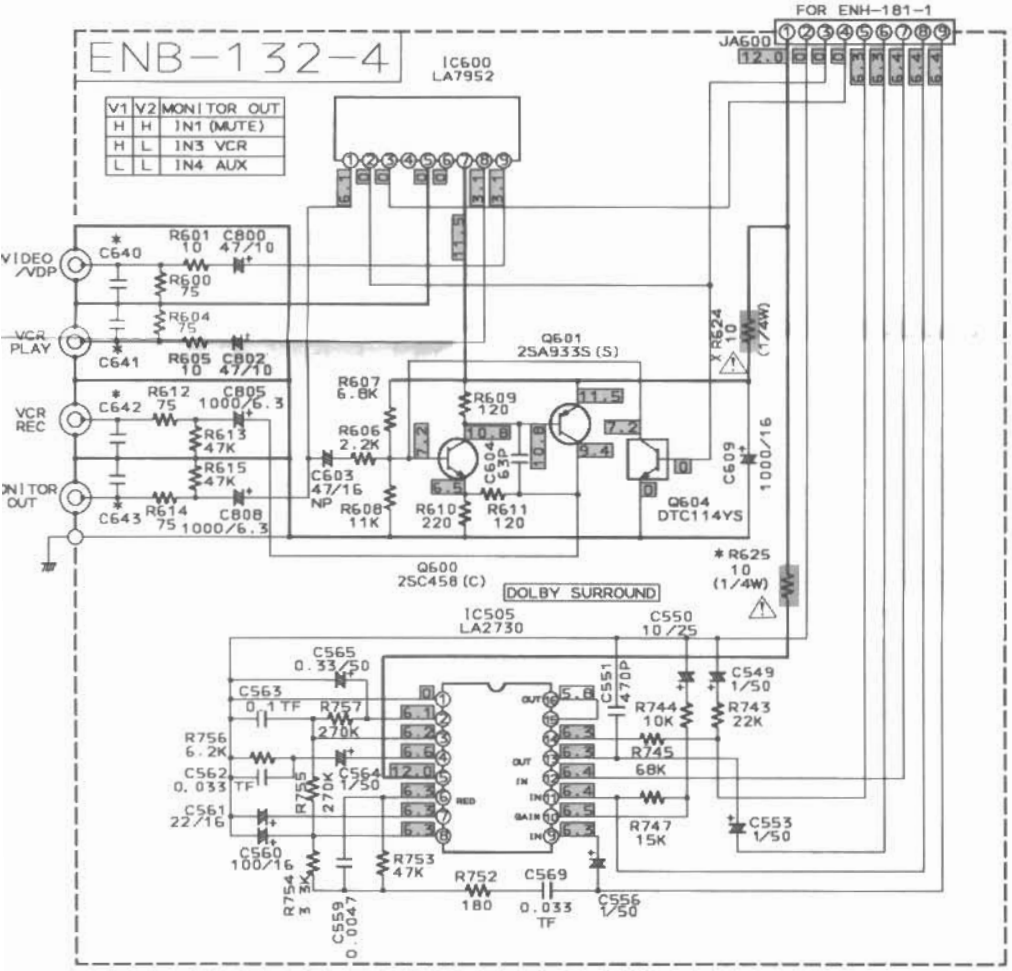
3. TWIN BASS & Power Amplifier Section




ENB-132-3
ENB-132-2
HEAD PHONE
MIC J851
J852
Q895 2SD2144S (VW)
Q896 2SD2144S (VW)
IC808 VC4580L
IC809 BA15218N
IC910 BA15218N
REAR LEVEL
INPUT BALANCE
TWIN BASS
MIC MIX
VR803 10KB
VR802 100KB
VR804 250KB
VR801 50KB
FOR ENH-181-1
TO ENH-181-1
TO ENB-132-1
FOR ENB-114-4

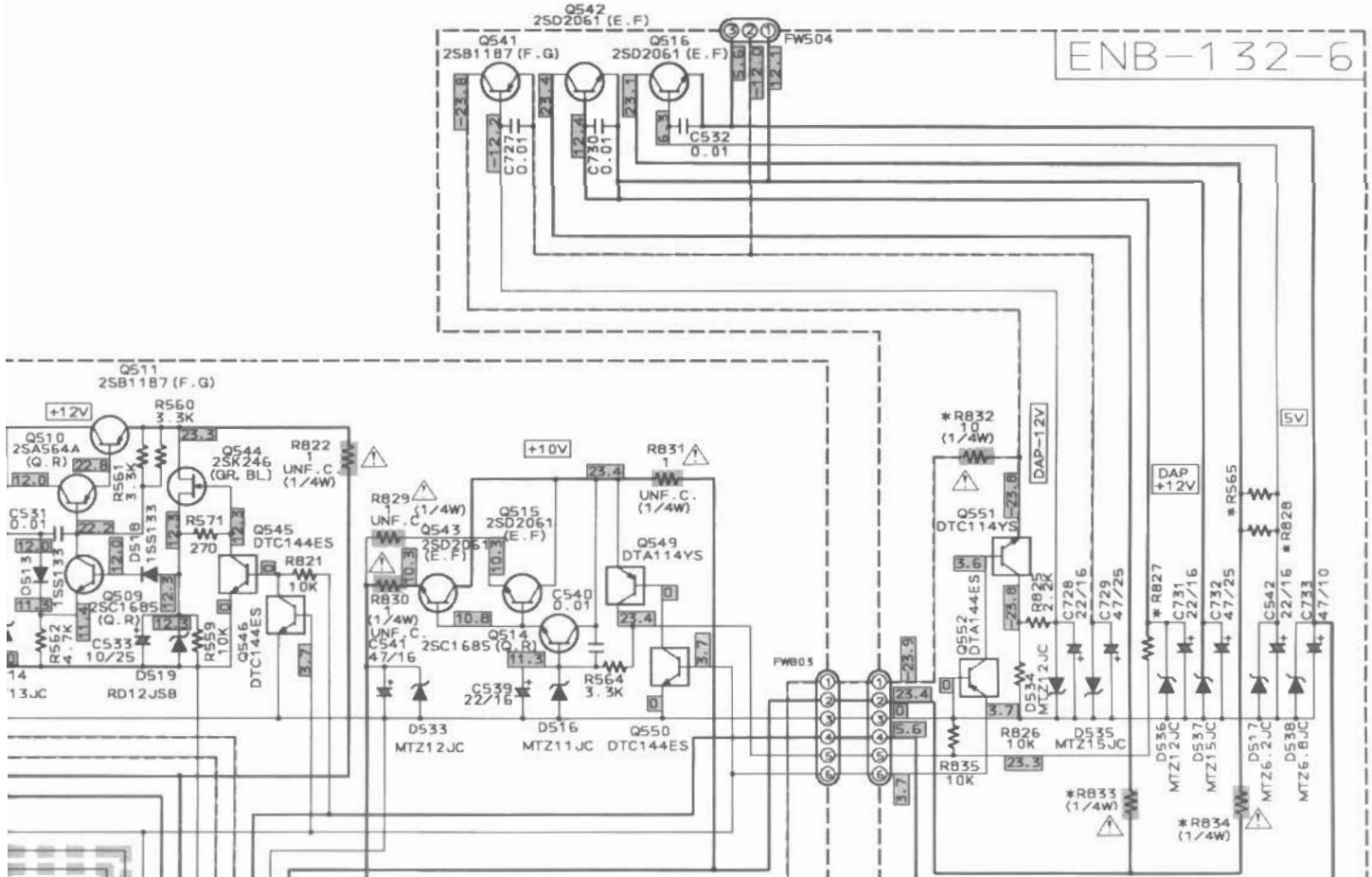

ENH-181-3
IC570
STK4141MK5
ENB-132-4
IC600
LA7952
V1 V2 MONITOR OUT
H H IN1 (MUTE)
H L IN3 VCR
L L IN4 AUX
VIDEO /VDP
VCR PLAY
VCR REC
MONITOR OUT
J601
J611
Q601
2SA933S(S)
Q600
2SC458(C)
DOLBY SURRO
IC505
LA2730
ENB-132-5
IC501
SI-19751
IC502
SI-19751
Q511
2SB1187(F.G)
Q541
2SB1187(F.G)
Q513
2SB1187(E.F)
Q512
2SA564A(Q.R)
Q510
2SA564A(Q.R)
Q544
2SK246(GR.BL)
Q545
DTC144ES
Q546
DTC144ES
Q547
DTA144ES
Q548
DTA144ES
Q509
2SC1685(Q.R)
Q543
2SD2061(E.F)
Q515
2SD2061(E.F)
Q514
2SC1685(Q.R)
D572
1SS133
D571
1SS133
D515
RD13JSB
D519
RD12JSB
D514
MTZ13JC
D533
MTZ12JC
D516
MTZ11JC
JA502
-12V
+12V
+10V

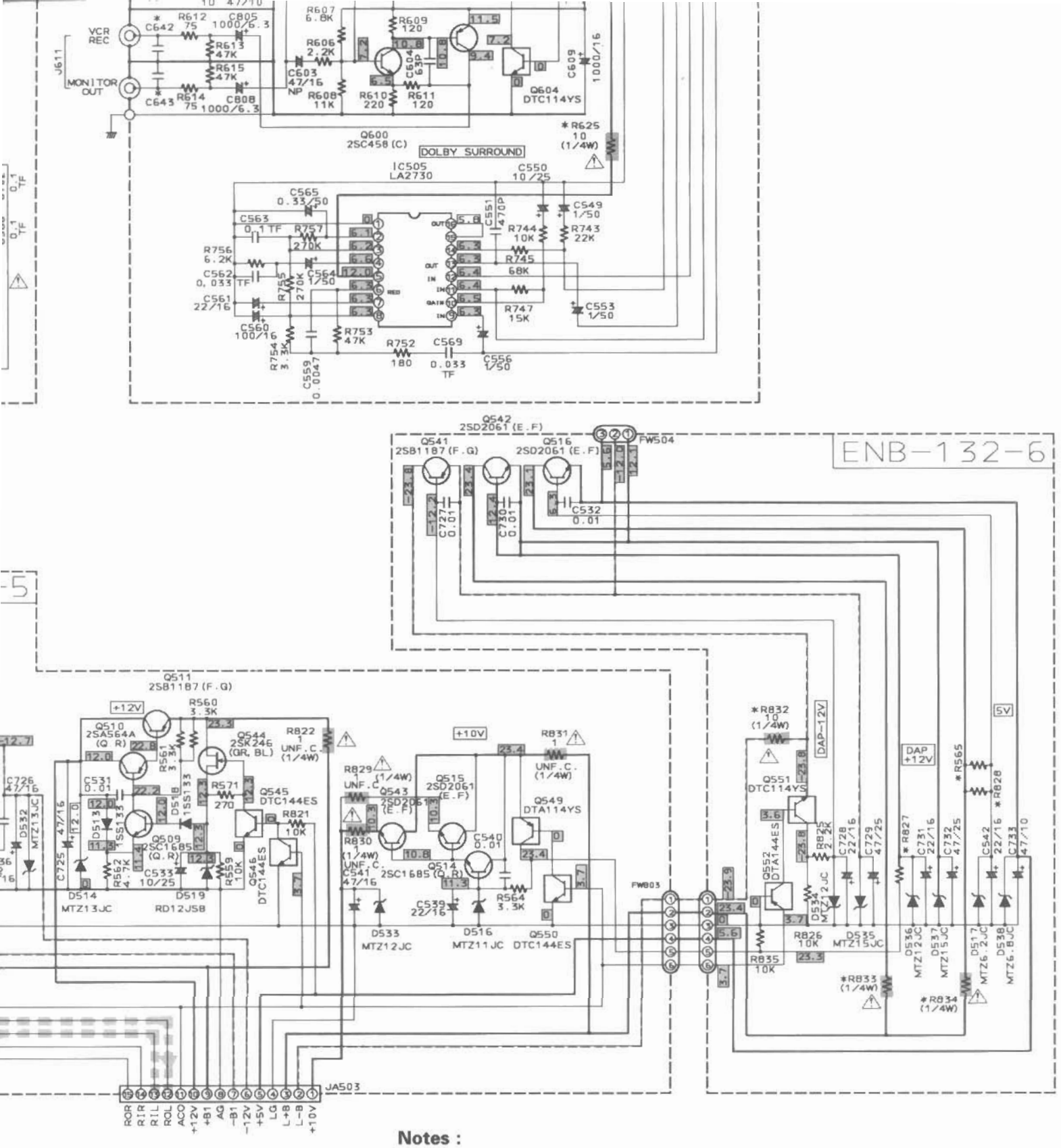

ENB-132-5
IC501 SI-19751
IC502 SI-19751
Q511 2SB1187 (F.G)
Q541 2SB1187 (F.G)
Q542 2SD2061
Q600 2SC458 (C)
IC505 LA2730
DOLBY SURROU
JA502
JA503
VR801 50KB
MIC MIX
VCR REC
MONITOR OUT
J611
-12V
+12V
+10V
Notes :
1. Shov
2. indic
3. indic
4. indic
5. indic
6. When repla
with ⚠ , I
7. This is the
The design



* MARK

	J, C	U	E, EF A, BS	Q, GI
C825~827	NONE	USED	USED	USED
R517, 587	UNF.C.	UNF.F.	UNF.F.	UNF.F.
R565, 828	10K	5.1K	5.1K	5.1K
R624, 625	UNF.C.	UNF.F.	UNF.F.	UNF.F.
R823, 832	UNF.C.	UNF.F.	UNF.F.	UNF.F.
R827	3.3K.	1.5K	1.5K	1.5K
R833, 834	3.9 UNF.C.	4.7 UNF.F.	4.7 UNF.F.	4.7 UNF.F.





Notes :

1. ▭ Shows DC voltage to the chassis with no signal input.
2. —— indicates + B power supply.
3. - - - - indicates – B power supply.
4. ▭ indicates Front signal path.
5. ▭ indicates Rear signal path.
6. When replacing the parts in the darkned are (▭) and those marked with ⚠ , be sure to use the designated parts to ensure safety.
7. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

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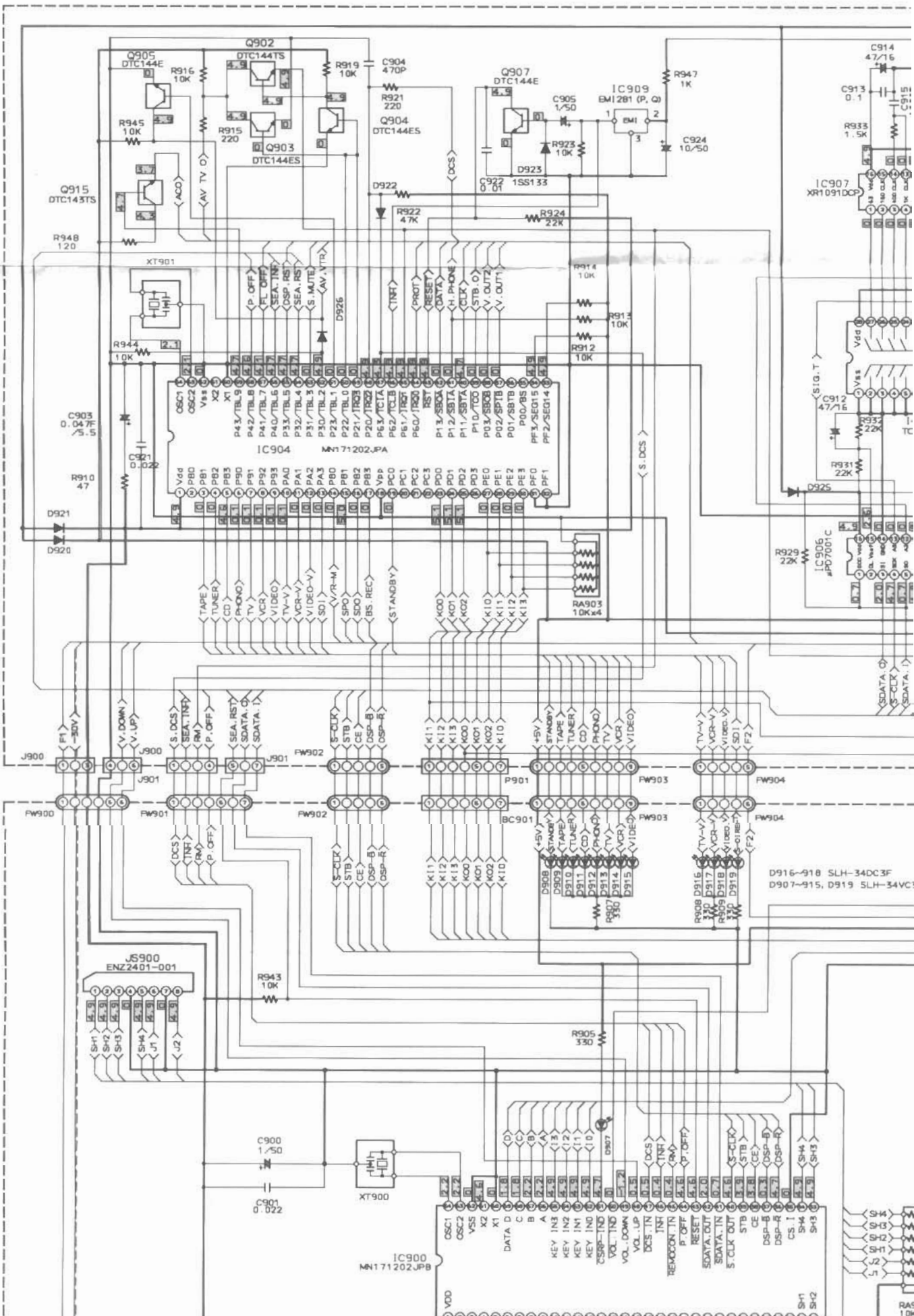
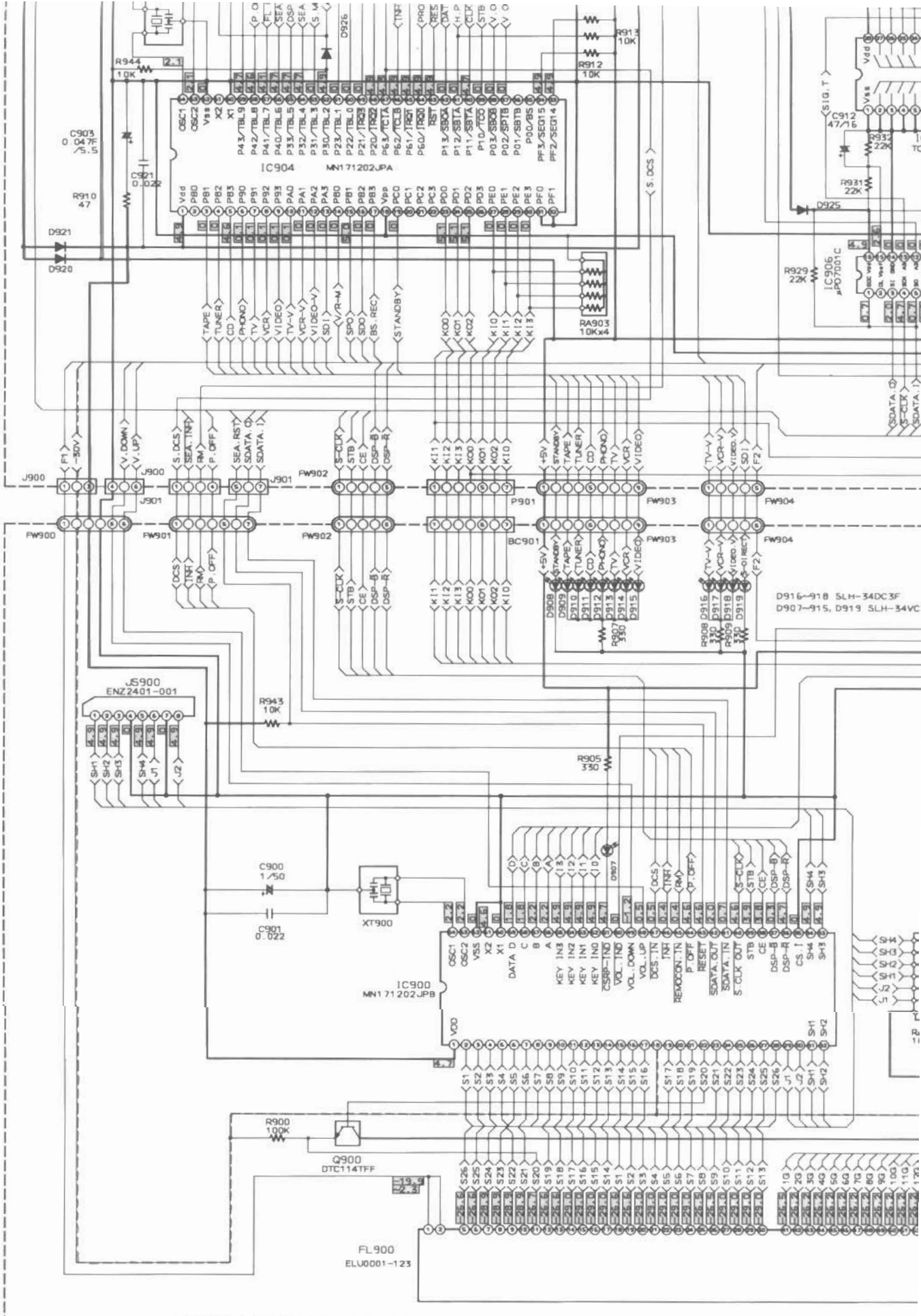
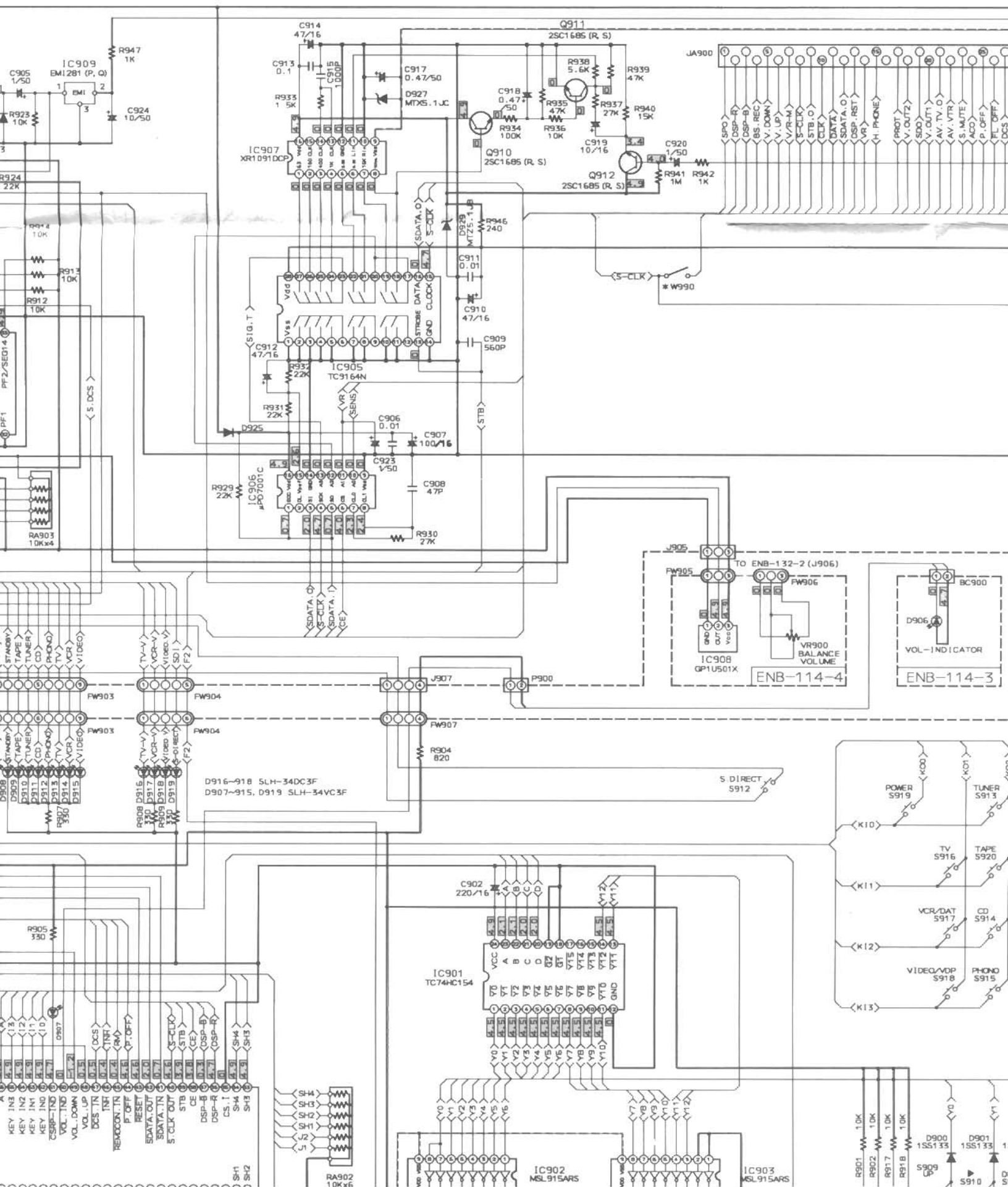
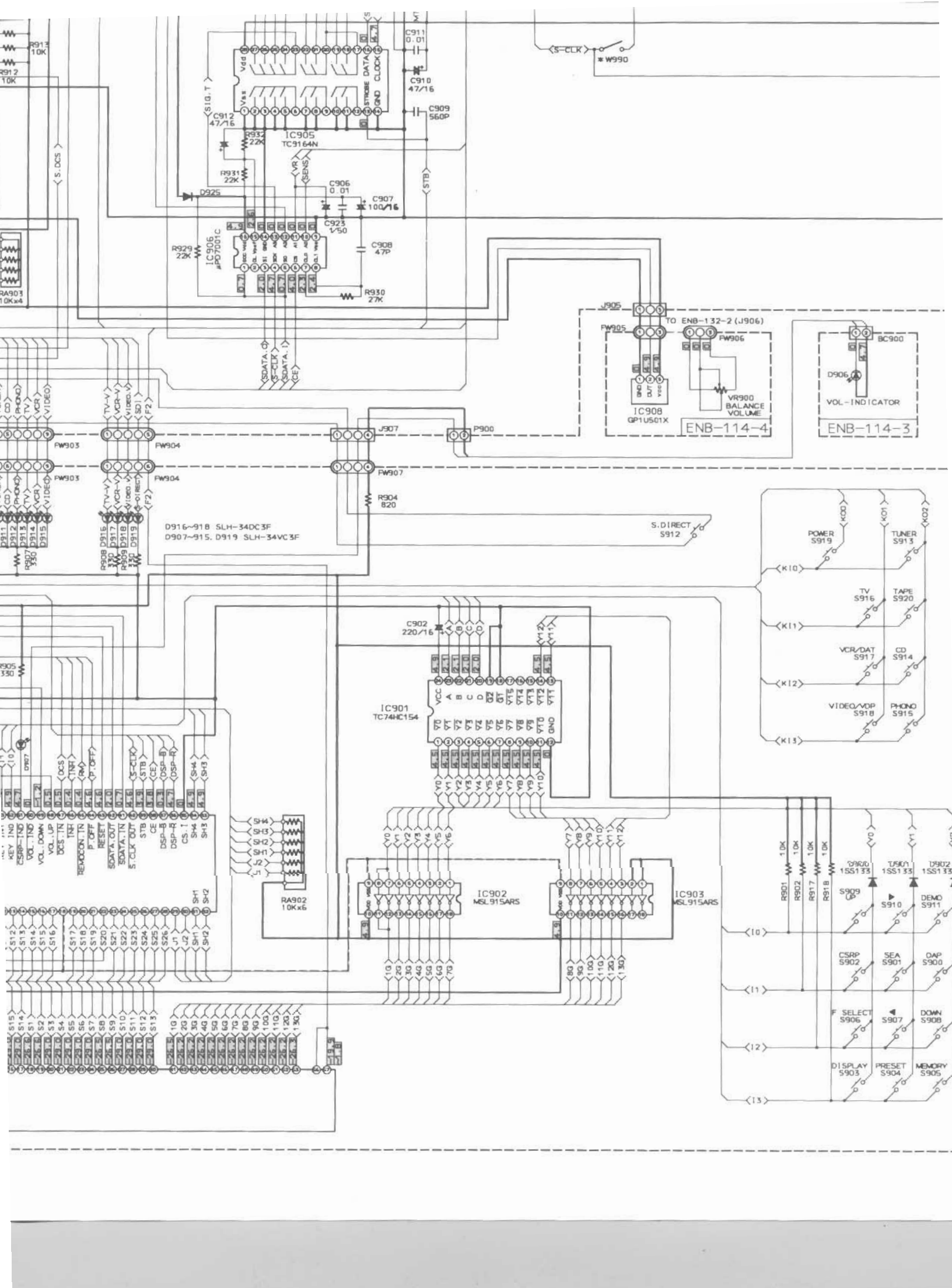
4. System Control & FL driver Section

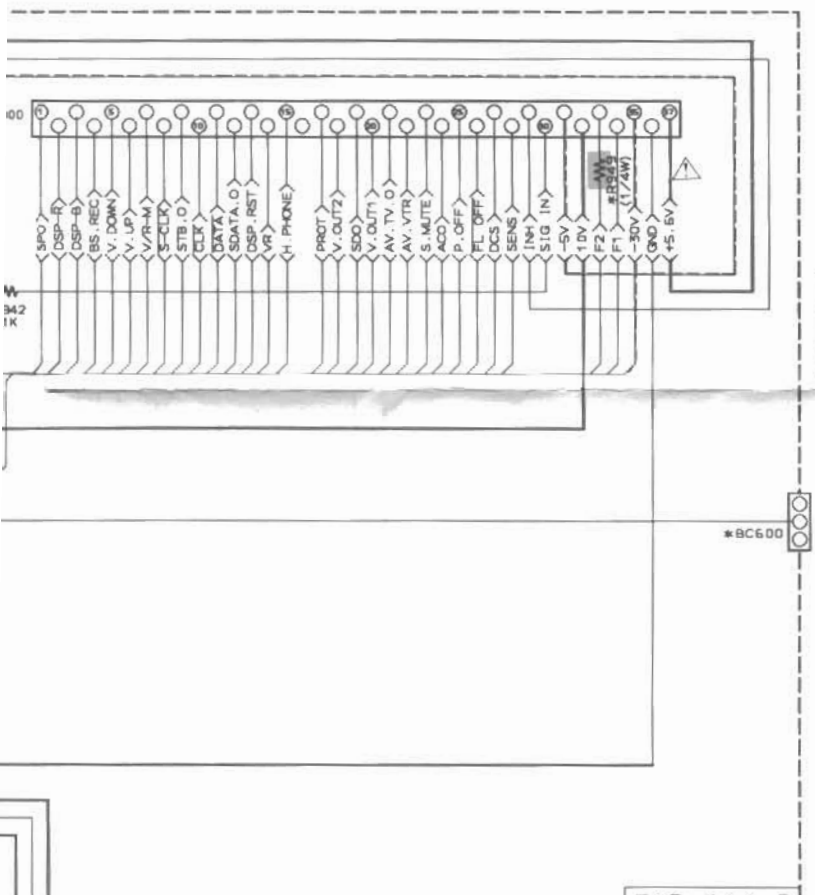



IC904
MN171202JPA
IC900
MN171202JPB
IC906
μPD7001C
Q900
DTC114TFF
XT900
FL900
ELU0001-123
JS900
ENZ2401-001
D916~918 SLH-34DC3F
D907~915, D919 SLH-34VC

(No. 20269)

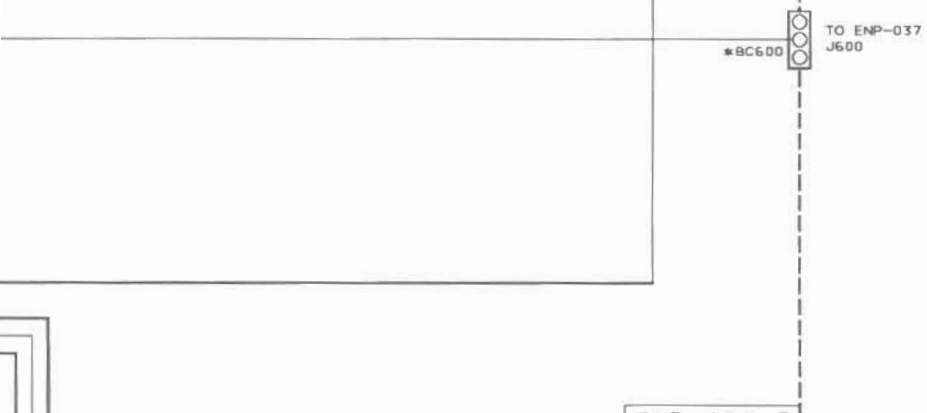

IC909 EMI281 (P, Q)
IC907 XR1091DCP
IC905 TC9164N
IC906 μPD7001C
Q911 2SC1685 (R, S)
Q910 2SC1685 (R, S)
Q912 2SC1685 (R, S)
JA900
S-CLK
* W990
J905
TO ENB-132-2 (J906)
FW905
FW906
IC908 GP1U501X
VR900 BALANCE VOLUME
BC900
D906
VOL-INDICATOR
ENB-114-4
ENB-114-3
FW903
FW904
FW907
J907
P900
R904 820
D916~918 SLH-34DC3F
D907~915, D919 SLH-34VC3F
S DIRECT S912
POWER S919
TUNER S913
TV S916
TAPE S920
VCR/DAT S917
CD S914
VIDEO/VDP S918
PHONO S915
IC901 TC74HC154
IC902 MSL915ARS
IC903 MSL915ARS
RA902 10Kx6
RA903 10Kx4
D900 1SS133
D901 1SS133
S909
S910

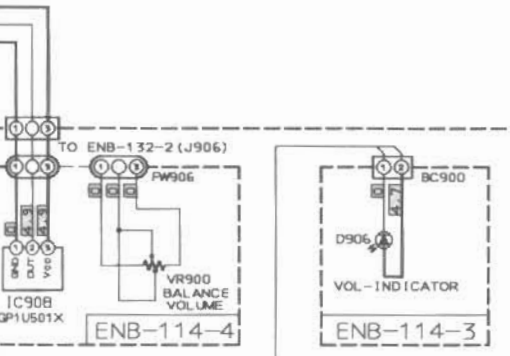

IC905
TC9164N
IC906
μPD7001C
IC908
GP1U501X
IC901
TC74HC154
IC902
MSL915ARS
IC903
MSL915ARS
RA902
10Kx6
RA903
10Kx4
ENB-114-4
ENB-114-3
TO ENB-132-2 (J906)
VR900
BALANCE
VOLUME
VOL-INDICATOR
D916~918 SLH-34DC3F
D907~915, D919 SLH-34VC3F
S.DIRECT
S912
POWER
S919
TUNER
S913
TV
S916
TAPE
S920
VCR/DAT
S917
CD
S914
VIDEO/VDP
S918
PHONO
S915
DEMO
S911
CSRP
S902
SEA
S901
DAP
S900
SELECT
S906
DOWN
S908
DISPLAY
S903
PRESET
S904
MEMORY
S905

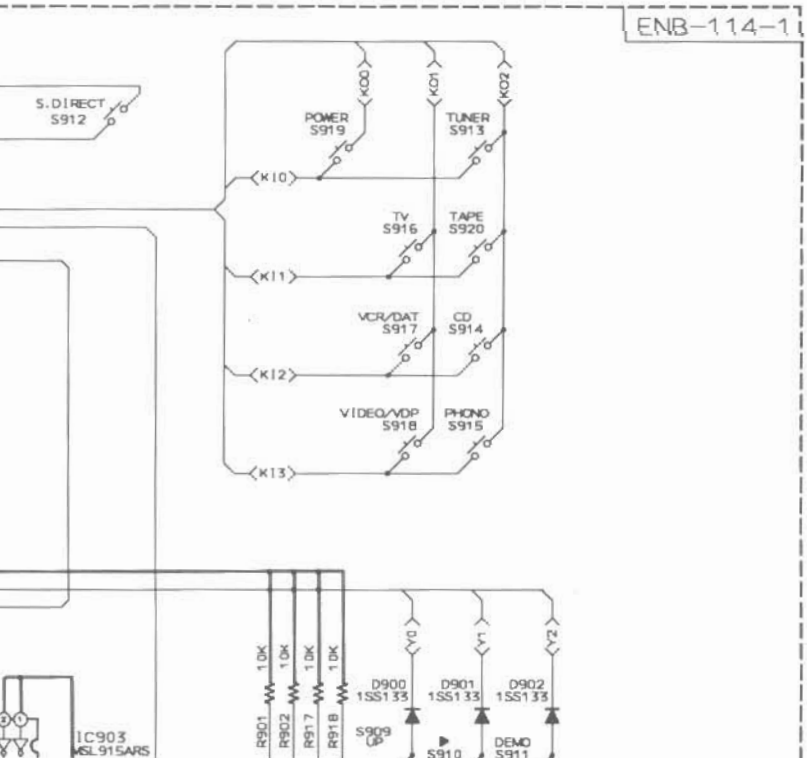


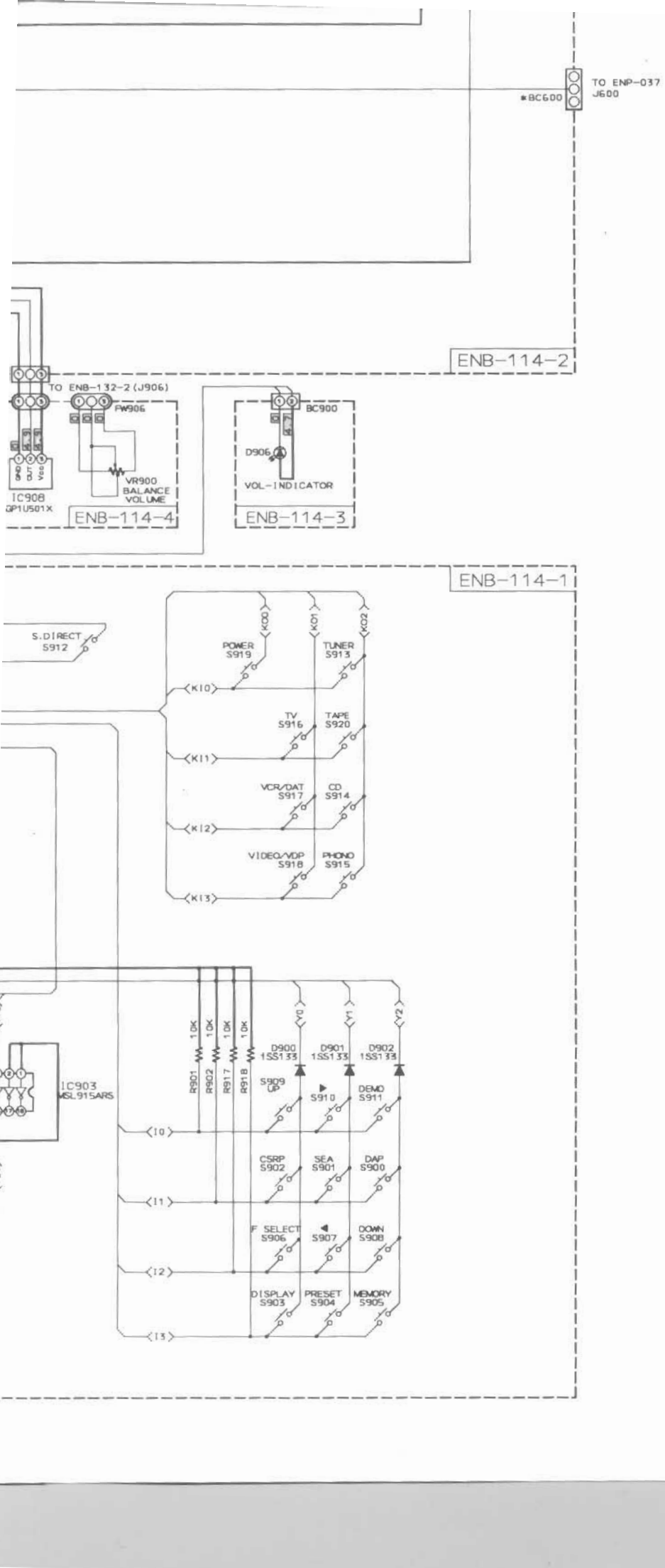
* MARK

	J. C	E, EF A, BS	G, GI	U
R949	2.7 UNF. C.	4.7 UNF. F.	4.7 UNF. F.	4.7 UNF. F.
BC600	NONE	USED	USED	USED
W990	USED	NONE	NONE	NONE








TO ENP-037
J600
*BC600
ENB-114-2
TO ENB-132-2 (J906)
FW906
VR900
BALANCE
VOLUME
IC908
GP1U501X
ENB-114-4
BC900
D906
VOL-INDICATOR
ENB-114-3
ENB-114-1
S.DIRECT
S912
POWER
S919
TUNER
S913
TV
S916
TAPE
S920
VCR/DAT
S917
CD
S914
VIDEO/VDP
S918
PHONO
S915
K00
K01
K02
K10
K11
K12
K13
IC903
MSL915ARS
R901
R902
R917
R918
1.0K
D900
1SS133
D901
1SS133
D902
1SS133
Y0
Y1
Y2
S909
UP
S910
DEMO
S911
CSRP
S902
SEA
S901
DAP
S900
F SELECT
S906
S907
DOWN
S908
DISPLAY
S903
PRESET
S904
MEMORY
S905
I0
I1
I2
I3