Pioneer sound.vision.soul

Service Manual

ORDER NO.
RRV3100

DJ MIXER
DJM-707

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	DJM-707		
WYXJ4	○	AC220- 240V	

● **This service manual should be used together with the following manual(s):**

Model No.	Order No.	Remarks
DJM-707/ WYXJ	RRV2872	

• This unit is in compliance with European radio-wave regulations.

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PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
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T – ZZY JAN. 2005 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 → 56 x 10^1 → 561 ..... RD1/4PU 5 6 1 J
47k → 47 x 10^3 → 473 ..... RD1/4PU 4 7 3 J
0.5 → R50 ..... RN2H R 5 0 K
1 → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k → 562 x 10^1 → 5621 ..... RN1/4PC 5 6 2 1 F

■ CONTRAST TABLE

DJM-707/WYXJ4 and DJM-707/WYXJ are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			DJM-707/ WYXJ	DJM-707/ WYXJ4	
		PCB ASSEMBLIES			
	NSP	MOTHER ASSY	DWM2174	DWM2206	
P9 - 1		└ MAIN Assy	DWX2338	DWX2456	
	NSP	JACK Assy	DWM2171	DWM2207	
P9 - 3		├ C1BF Assy	DWS1338	DWS1362	
P9 - 4		├ SDRT Assy	DWX2321	DWX2454	
P9 - 5		├ XLR Assy	DWX2322	DWX2455	
P9 - 6		├ C2BF Assy	DWS1339	DWS1363	
P13 - 3		├ MICB Assy	DWX2363	DWX2457	
P13 - 4		└ HPBO Assy	DWX2319	DWX2453	
	NSP	SUB Assy	DWM2172	DWM2208	
P15 - 3		└ FSSW Assy	DWS1333	DWS1361	

■ CONTRAST OF PCB ASSEMBLIES

A 2/6 F MAIN Assy

DWX2338 and DWX2456 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		DWX2338	DWX2456	
	R508- R513	RS1/16S0R0J	Not used	*1
	C221, C222	Not used	CCSRCH221J50	
	L105- L110	Not used	ATL7002	

*1 : Refer to " 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM".

E F C1BF Assy

DWS1338 and DWS1362 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		DWS1338	DWS1362	
	R1241, R1242	Not used	RS1/16S513J	*2
	R1251, R1252	RN1/16SE1000D	RN1/16SE1001D	
	R1259, R1260	RN1/16SE1000D	RS1/16S103J	
	R1261, R1262	RN1/16SE1203D	Not used	
	R1263, R1264	RN1/16SE1003D	RS1/16S125J	
	R1267,R1268, R1295, R1296	RN1/16SE1001D	RS1/16S102J	
	R1269, R1270	RN1/16SE4703D	RS1/16S125J	
	C1259, C1260	CCSRCH101J50	Not used	
	C1261, C1262	CCSRCH101J50	CCSRCH221J50	

*2 : Refer to " 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM ".

FF C2BF Assy

DWS1339 and DWS1363 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		DWS1339	DWS1363	
	R1341, R1342	Not used	RS1/16S513J	*3
	R1351, R1352	RN1/16SE1000D	RN1/16SE1001D	
	R1359, R1360	RN1/16SE1000D	RS1/16S103J	
	R1361, R1362	RN1/16SE1203D	Not used	
	R1363, R1364	RN1/16SE1003D	RS1/16S125J	
	R1367, R1368, R1395, R1396	RN1/16SE1001D	RS1/16S102J	
	R1369, R1370	RN1/16SE4703D	RS1/16S125J	
	C1359, C1360	CCSRCH101J50	Not used	
	C1361, C1362	CCSRCH101J50	CCSRCH221J50	

*3 : Refer to " 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM".

GF MICB Assy

DWX2363 and DWX2457 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		DWX2363	DWX2457	
	C1244, C1245	CCSRCH101J50	CCSRCH102J50	

HF HPBO Assy

DWX2319 and DWX2453 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		DWX2319	DWX2453	
	R1479, R1480	RN1/16SE5102D	RN1/16SE3302D	
	R1481, R1482	RS1/16S183J	RS1/16S103J	

JF SDRT Assy

DWX2321 and DWX2454 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		DWX2321	DWX2454	
	C1917, C1918	CCSRCH101J50	CCSRCH102J50	
	C1938, C1939	Not used	CCSRCH101J50	*4

*4 : Refer to " 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM".

KF XLR Assy

DWX2322 and DWX2455 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		DWX2322	DWX2455	
	C171- C174	Not used	CCSRCH470J50	*6

*6 : Refer to " 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM".

SF FSSW Assy

DWS1333 and DWS1361 are constructed the same except for the following :

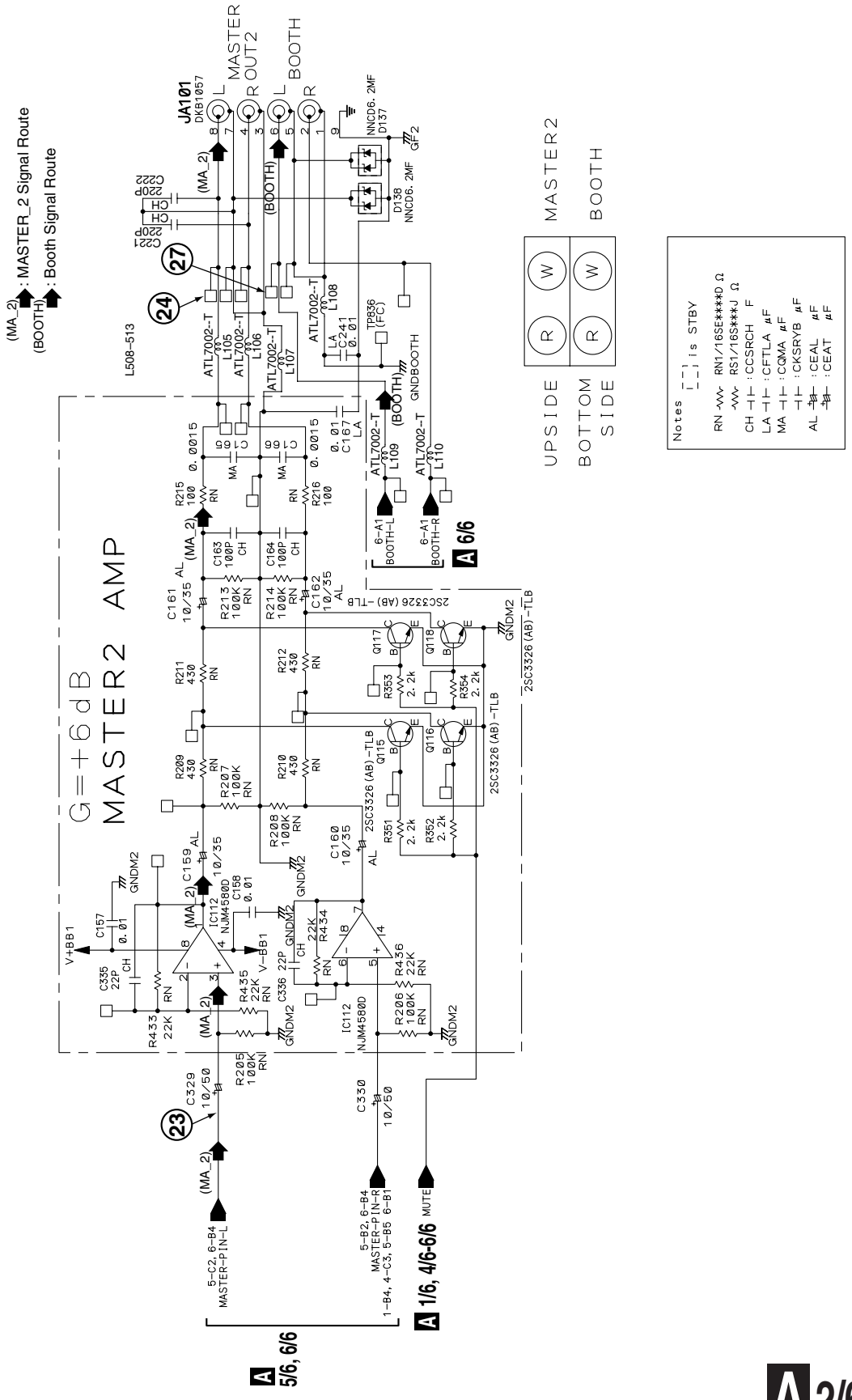
Mark	Symbol and Description	Part No.		Remarks
		DWS1333	DWS1361	
	R586, R587	Not used	RD1/2VM3R3J	*5
	C571, C572	Not used	CCSRCH101J50	*5
	C573, C574	Not used	CKSRYB104K25	
	L576 - L578	VTH1020	Not used	

*5 : Refer to " 2. SCHEMATIC DIAGRAM and 3. PCB CONNECTION DIAGRAM".

2. SCHEMATIC DIAGRAM

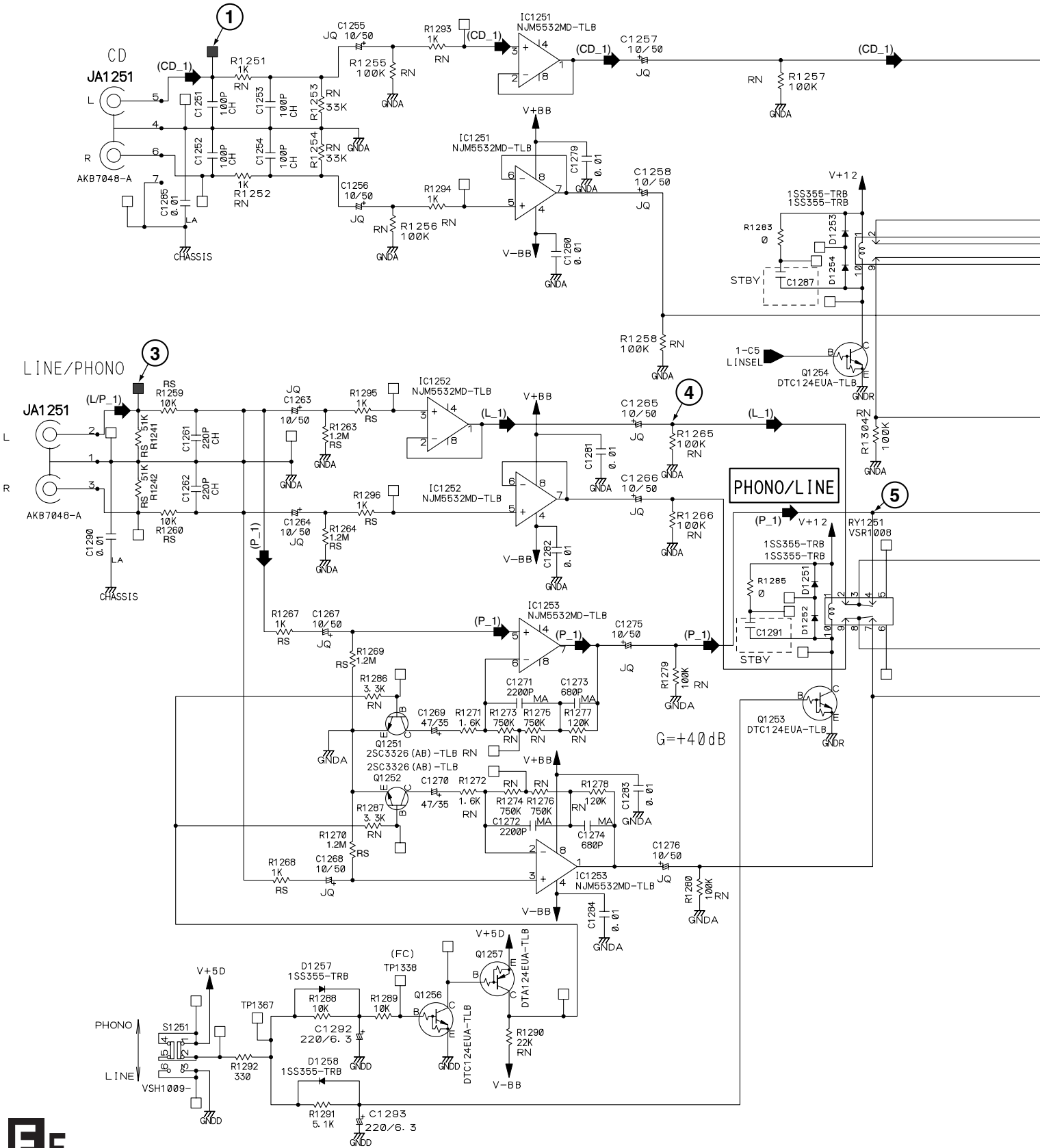
2.1 MAIN ASSY

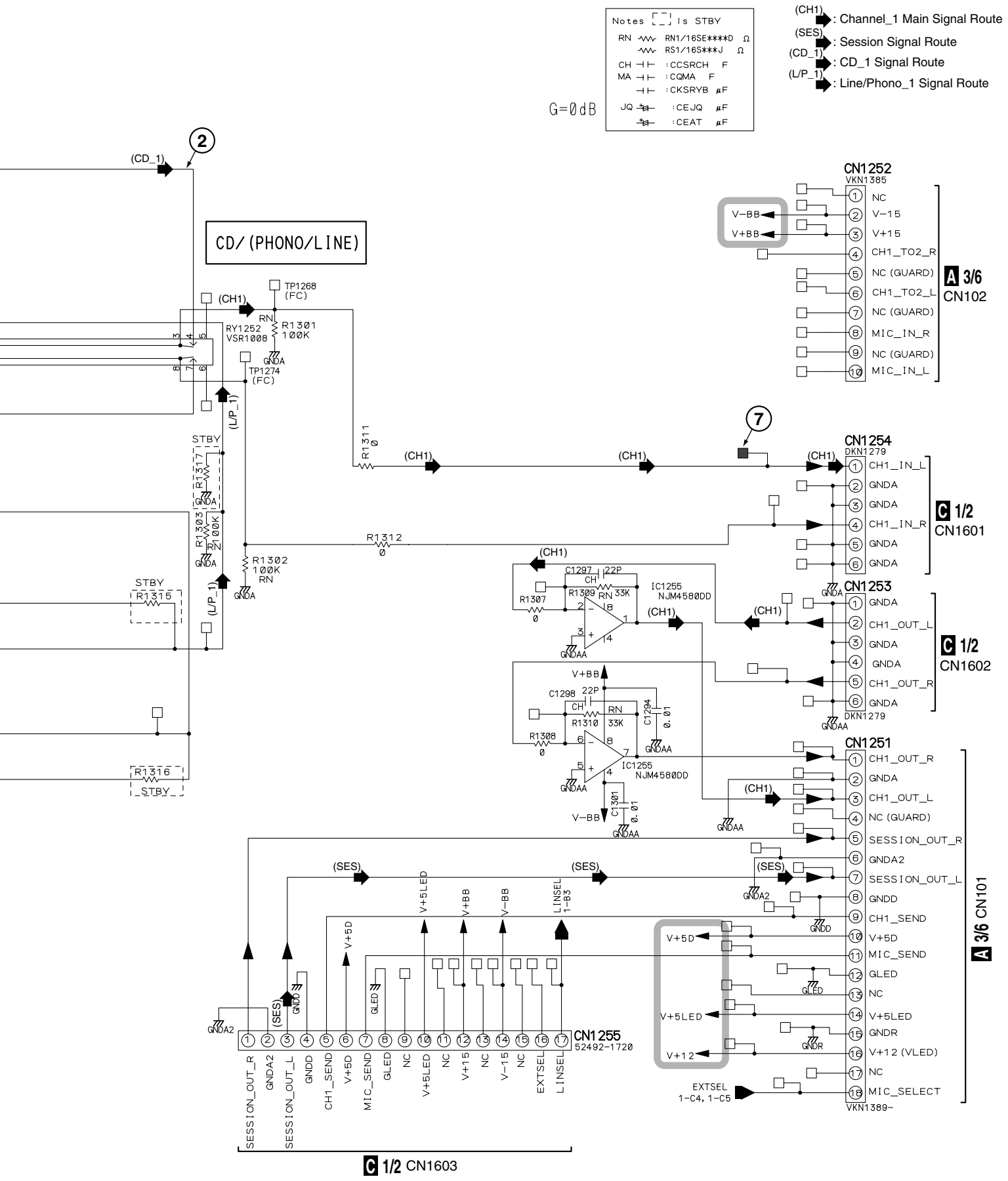
A 2/6 F MAIN ASSY (DWX2456)



2.2 C1BF ASSY

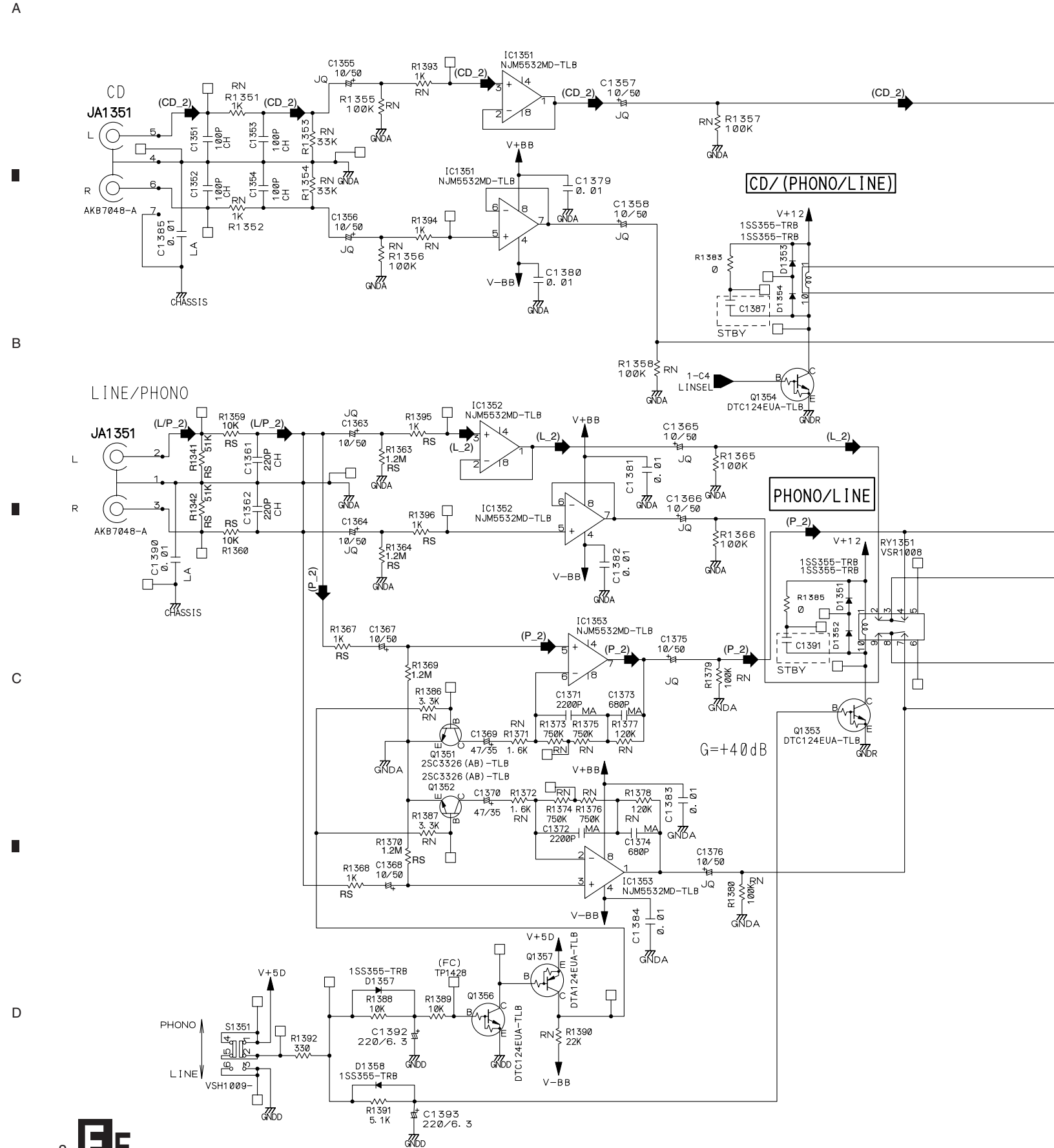
EF C1BF ASSY (DWS1362)



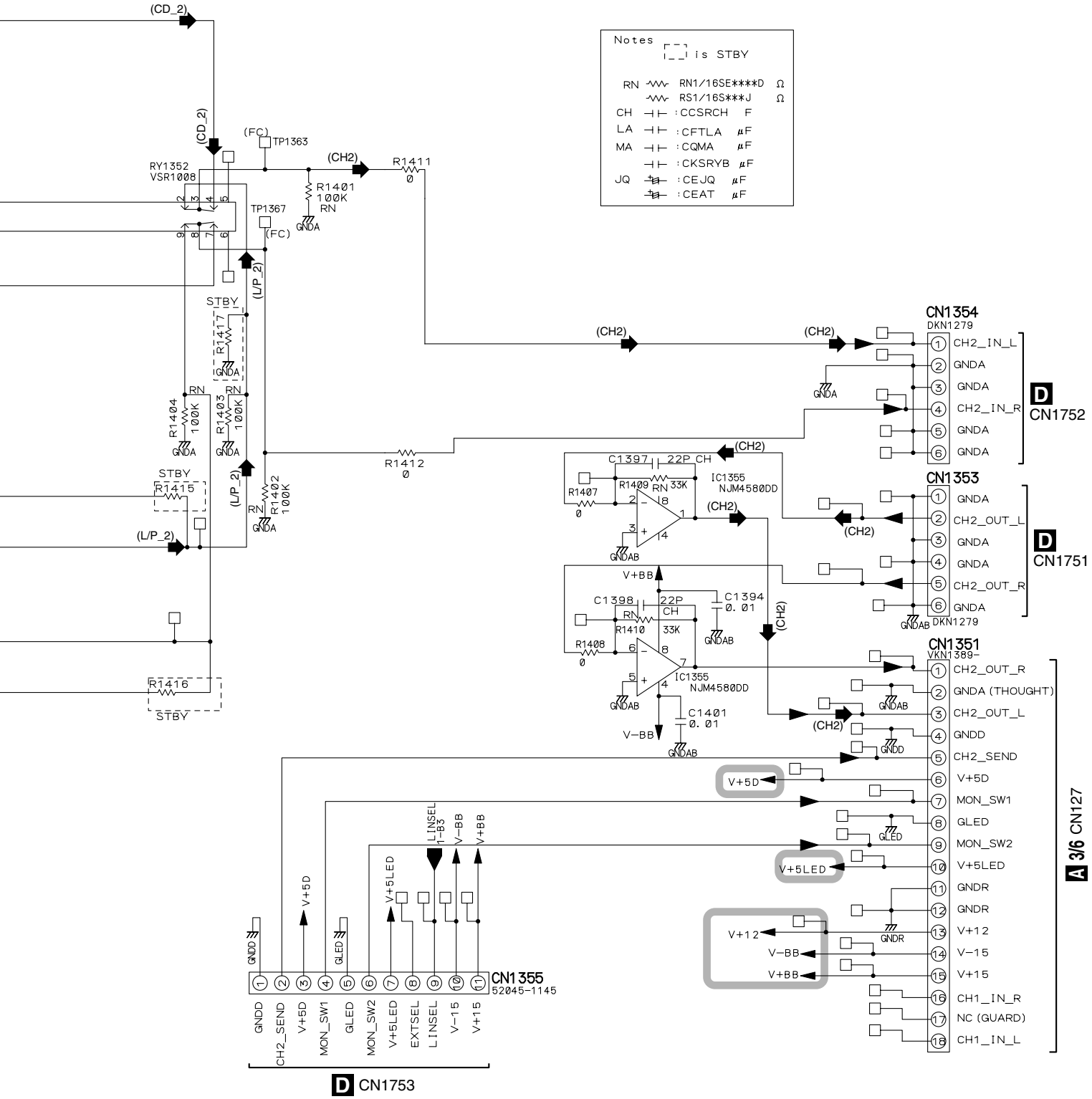

Notes [ ] is STBY
RN RN1/16SE****D Ω
RS1/16S***J Ω
CH :CCSRCH F
MA :CQMA F
:CKSRYB µF
JQ :CEJQ µF
:CEAT µF
G=0dB
(CH1) : Channel_1 Main Signal Route
(SES) : Session Signal Route
(CD_1) : CD_1 Signal Route
(L/P_1) : Line/Phono_1 Signal Route
CD/(PHONO/LINE)
(CD_1)
2
TP1268 (FC)
TP1274 (FC)
RY1252 VSR1008
R1301 100K
R1302 100K
R1303 100K
R1311 0
R1312 0
R1315
R1316
R1317
STBY
(L/P_1)
GNDA
CN1252 VKN1385
NC
V-15
V+15
CH1_TO2_R
NC (GUARD)
CH1_TO2_L
NC (GUARD)
MIC_IN_R
NC (GUARD)
MIC_IN_L
V-BB
V+BB
A 3/6 CN102
7
CN1254 DKN1279
CH1_IN_L
GNDA
GNDA
CH1_IN_R
GNDA
GNDA
C 1/2 CN1601
CN1253 DKN1279
GNDA
CH1_OUT_L
GNDA
GNDA
CH1_OUT_R
GNDA
C 1/2 CN1602
C1297 22P
C1298 22P
C1294 0.01
C1301 0.01
R1307 0
R1308 0
R1309 RN 33K
R1310 33K
IC1255 NJM4580DD
GNDAA
V+BB
V-BB
CN1251
CH1_OUT_R
GNDA
CH1_OUT_L
NC (GUARD)
SESSION_OUT_R
GNDA2
SESSION_OUT_L
GNDD
CH1_SEND
V+5D
MIC_SEND
GLED
NC
V+5LED
GNDR
V+12 (VLED)
NC
MIC_SELECT
VKN1389-
A 3/6 CN101
EXTSEL 1-C4, 1-C5
V+5LED
V+12
V+5D
GLED
GNDR
(SES)
GNDD
LINSEL 1-B3
CN1255 52492-1720
SESSION_OUT_R
GNDA2
SESSION_OUT_L
GNDD
CH1_SEND
V+5D
MIC_SEND
GLED
NC
V+5LED
NC
V+15
NC
V-15
NC
EXTSEL
LINSEL
C 1/2 CN1603

2.3 C2BF ASSY

C2BF ASSY (DWS1363)

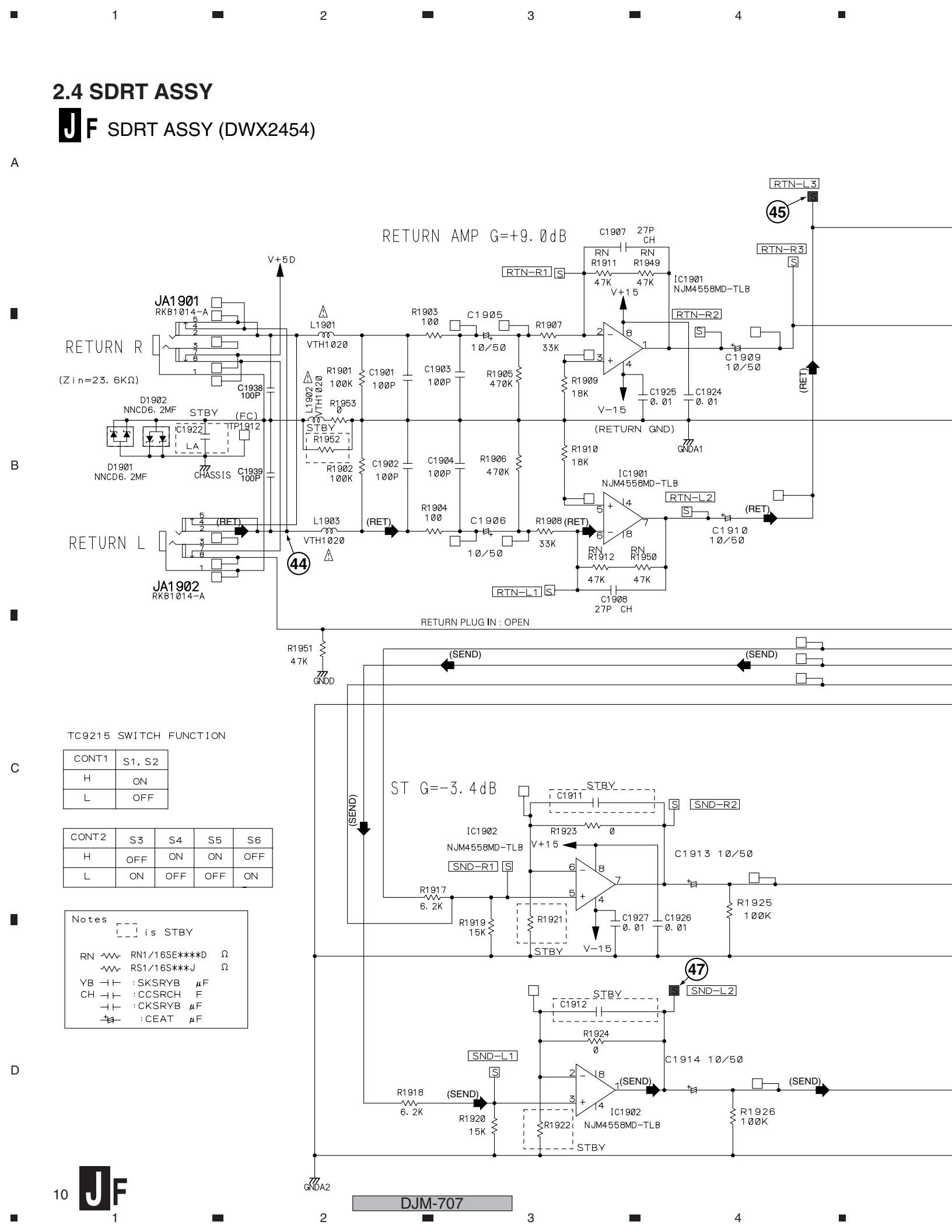


(CH2) : Channel_2 Main Signal Route
(CD_2) : CD_2 Signal Route
(L/P_2) : Line/Phono_2 Signal Route



2.4 SDRT ASSY

JF SDRT ASSY (DWX2454)



TC9215 SWITCH FUNCTION

CONT1	S1, S2
H	ON
L	OFF

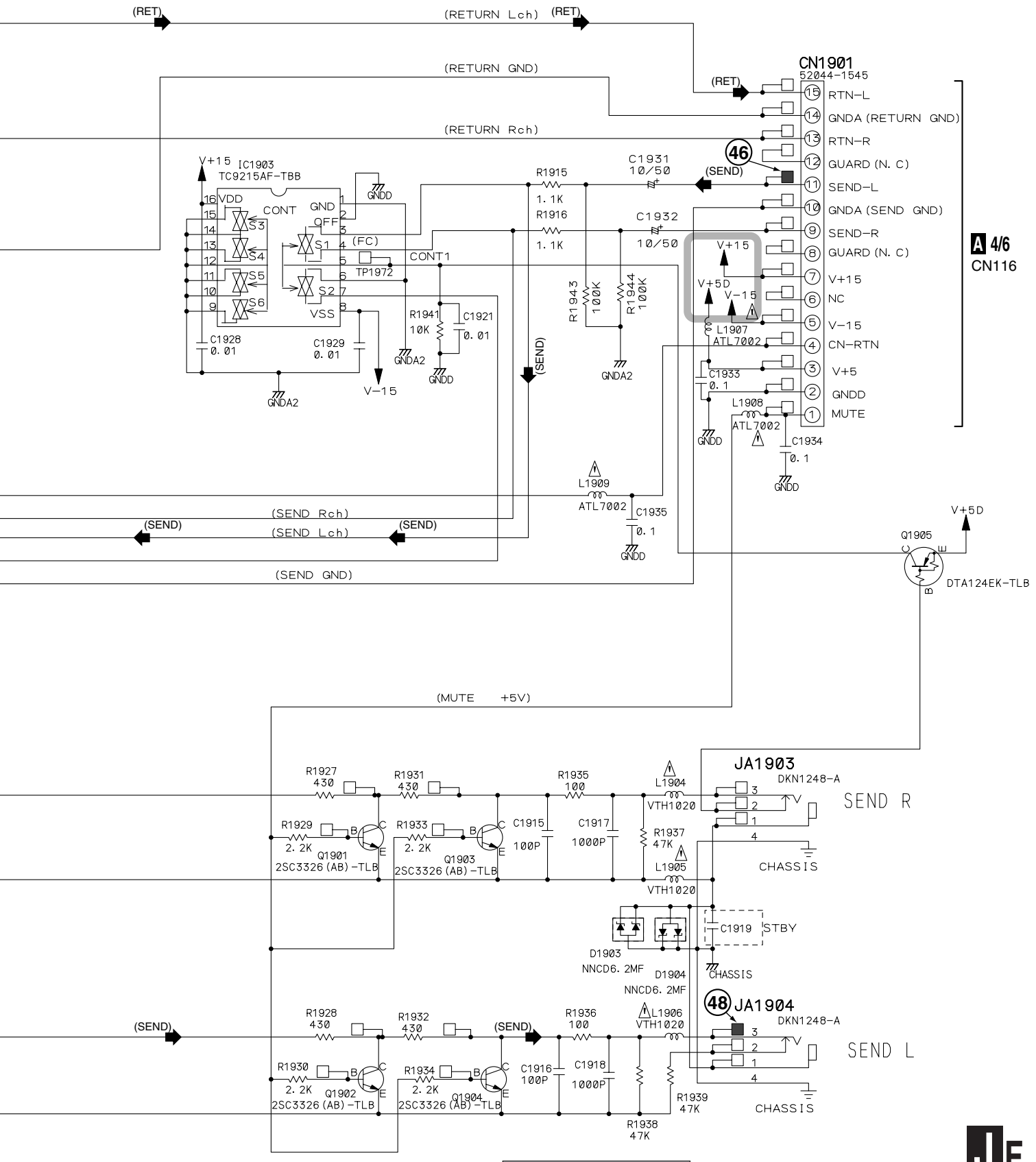
CONT2	S3	S4	S5	S6
H	OFF	ON	ON	OFF
L	ON	OFF	OFF	ON

Notes

[ ] is STBY

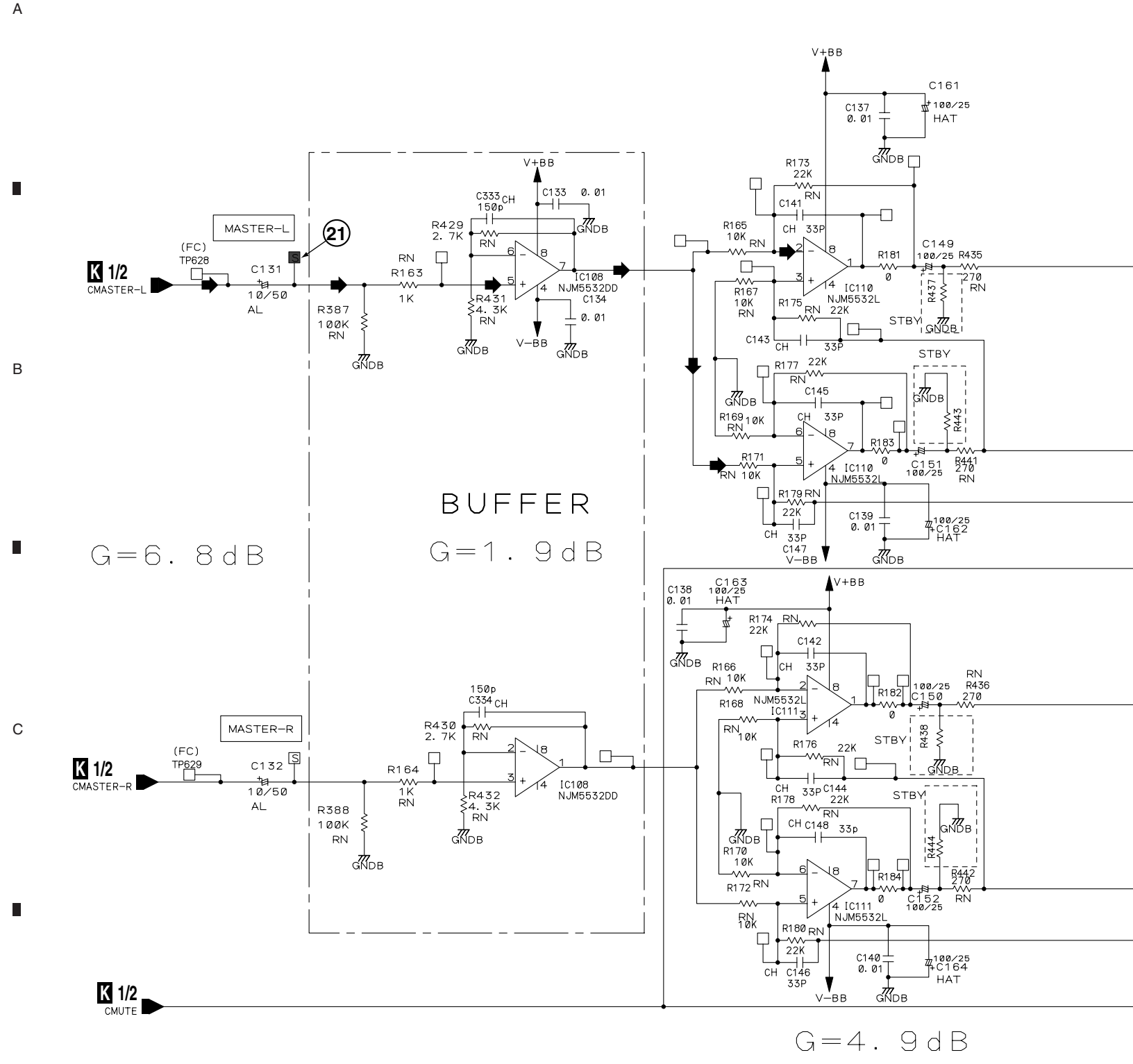
RN RN1/16SE****D Ω
RS1/16S***J Ω
YB :SKSRYB μF
CH :CCSRCH F
:CKSRYB μF
:CEAT μF

(SEND) : Send Signal Route
(RET) : Return Signal Route

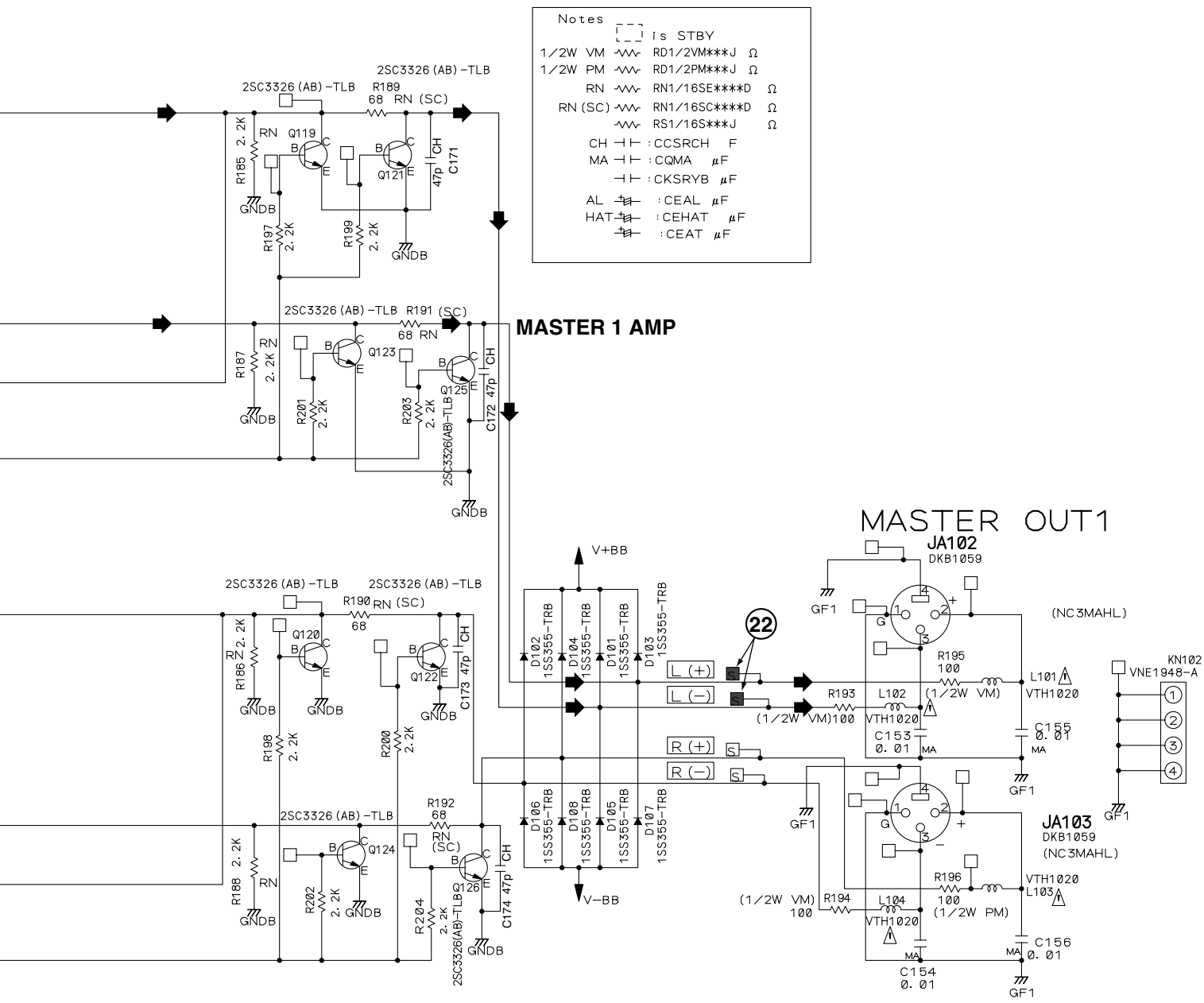


2.5 XLR ASSY

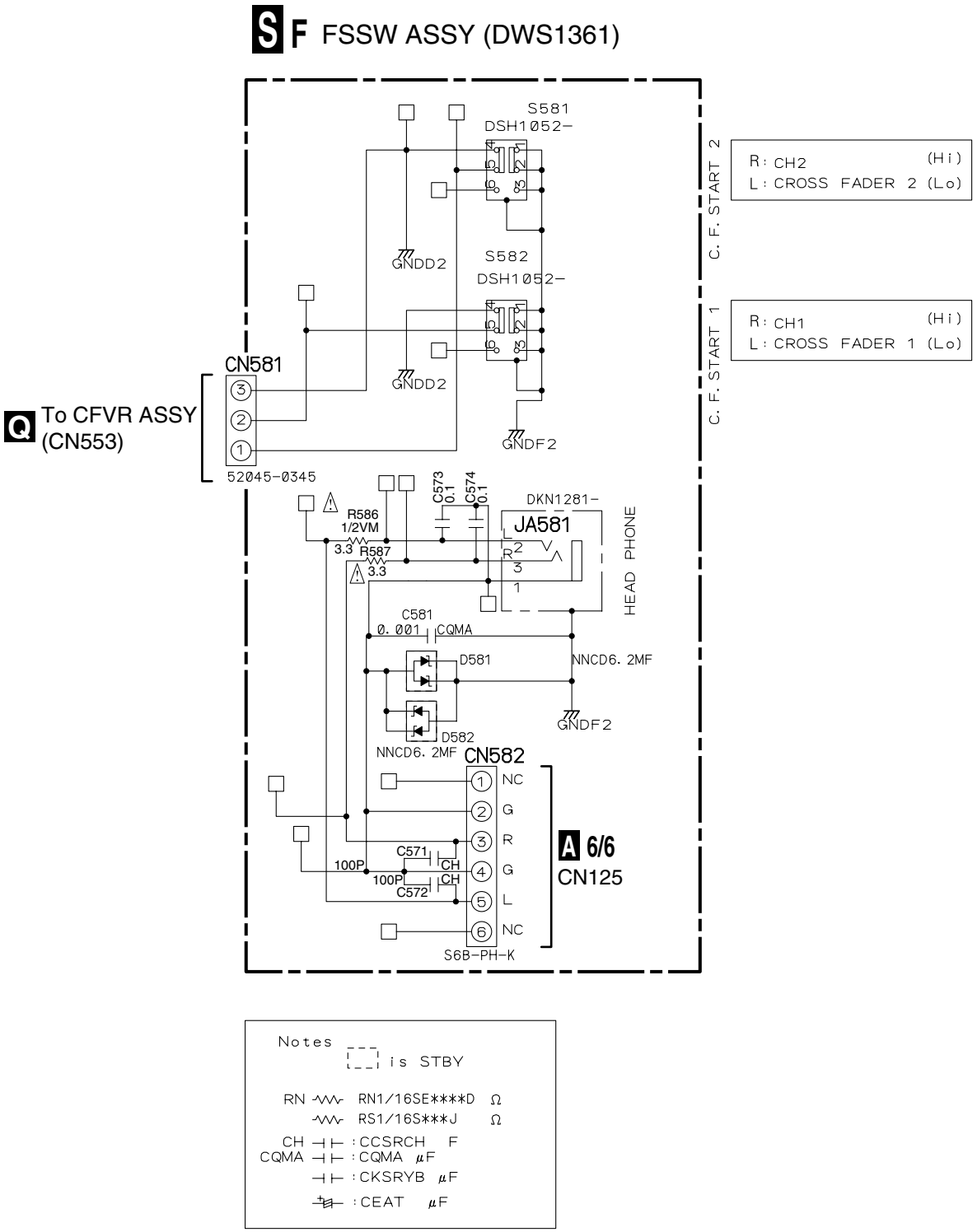
K 2/2 F XLR ASSY (DWX2455)



: Main Signal Route



2.6 FSSW ASSY


SF FSSW ASSY (DWS1361)
S581
DSH1052-
S582
DSH1052-
GNDD2
GNDD2
GNDF2
CN581
To CFVR ASSY
(CN553)
52045-0345
C. F. START 2
R : CH2 (Hi)
L : CROSS FADER 2 (Lo)
C. F. START 1
R : CH1 (Hi)
L : CROSS FADER 1 (Lo)
C573
0.1
C574
0.1
DKN1281-
JA581
HEAD PHONE
R586
1/2VM
3.3
R587
3.3
C581
0.001
CQMA
D581
NNCD6.2MF
GNDF2
D582
NNCD6.2MF
CN582
NC
G
R
G
L
NC
C571
100P
CH
C572
100P
CH
A 6/6
CN125
S6B-PH-K
Notes
is STBY
RN RN1/16SE****D Ω
RS1/16S***J Ω
CH : CCSRCH F
CQMA : CQMA μF
: CKSRYB μF
: CEAT μF

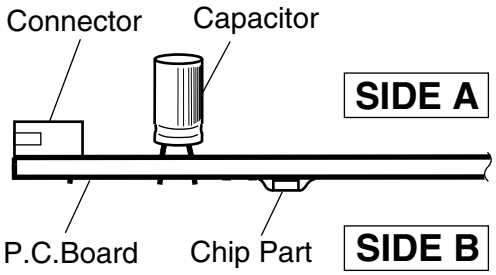
3. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

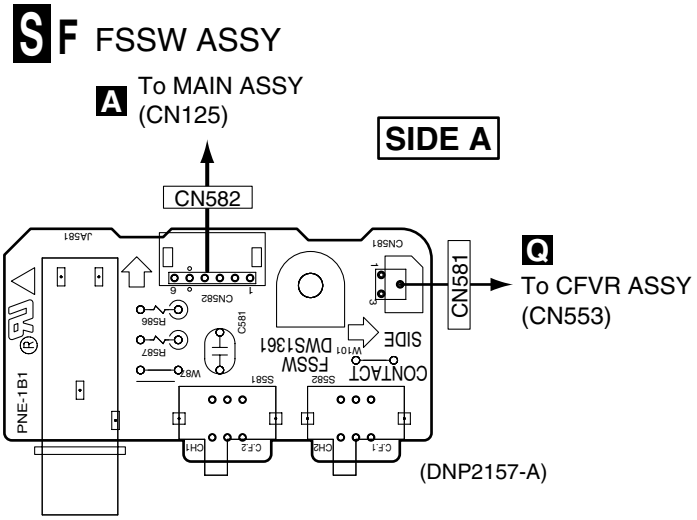
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

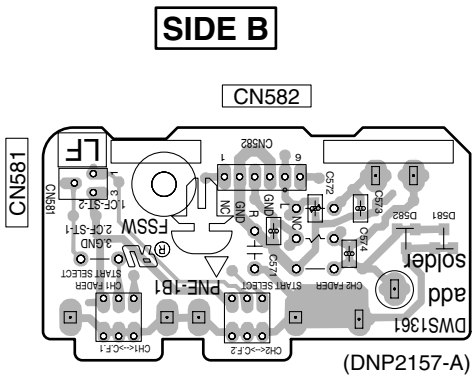
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



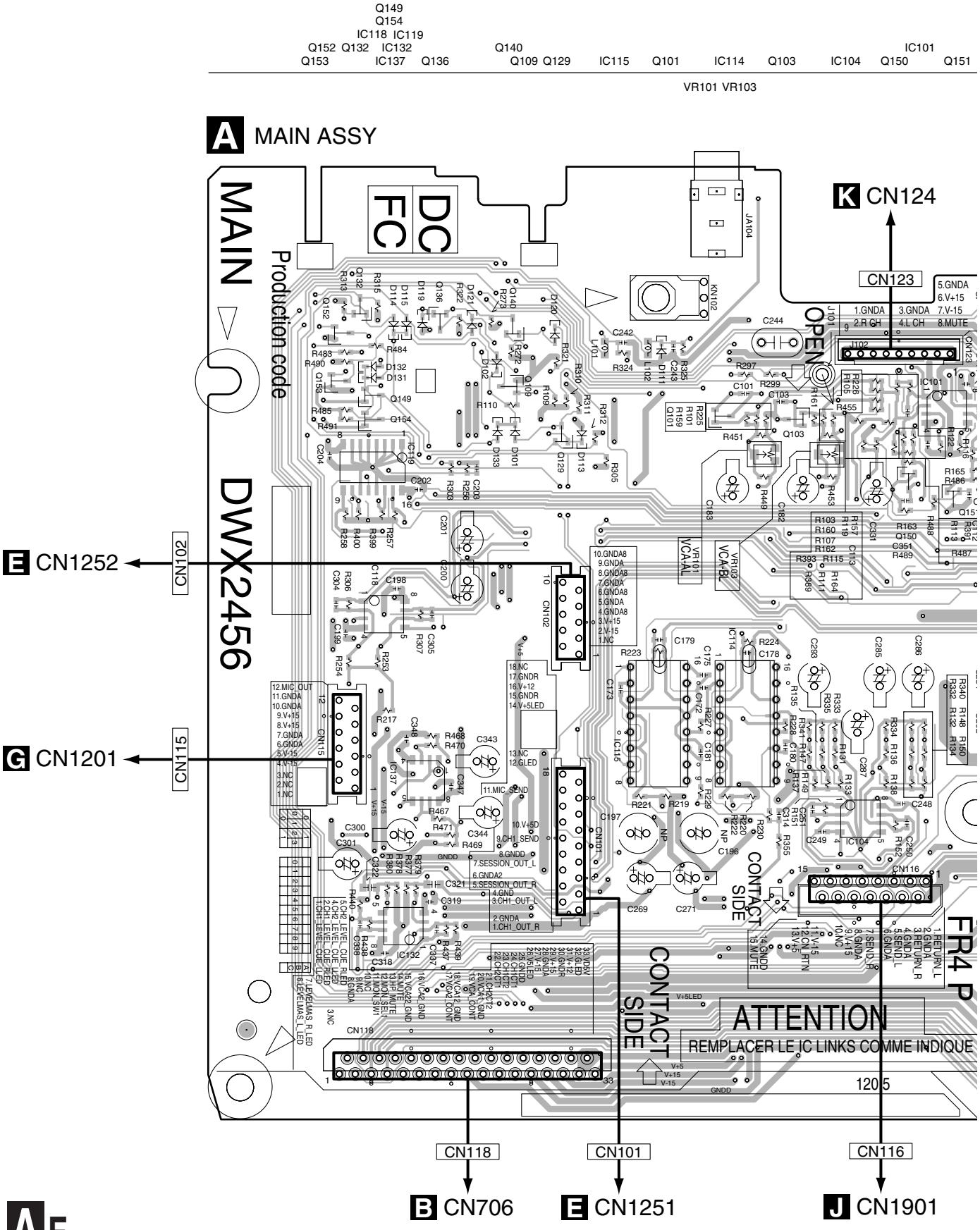
3.1 FSSW ASSY



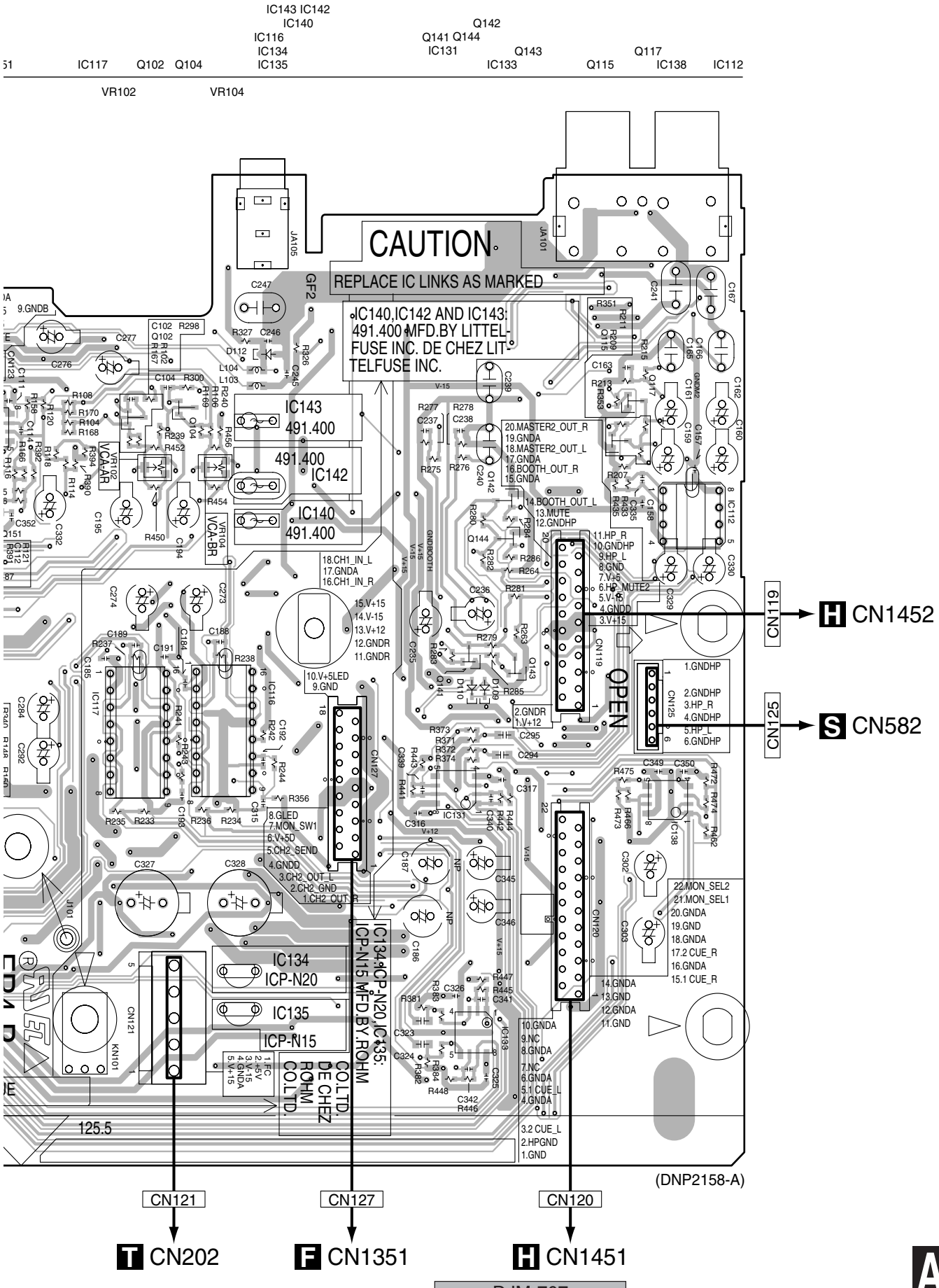


3.2 MAIN ASSY

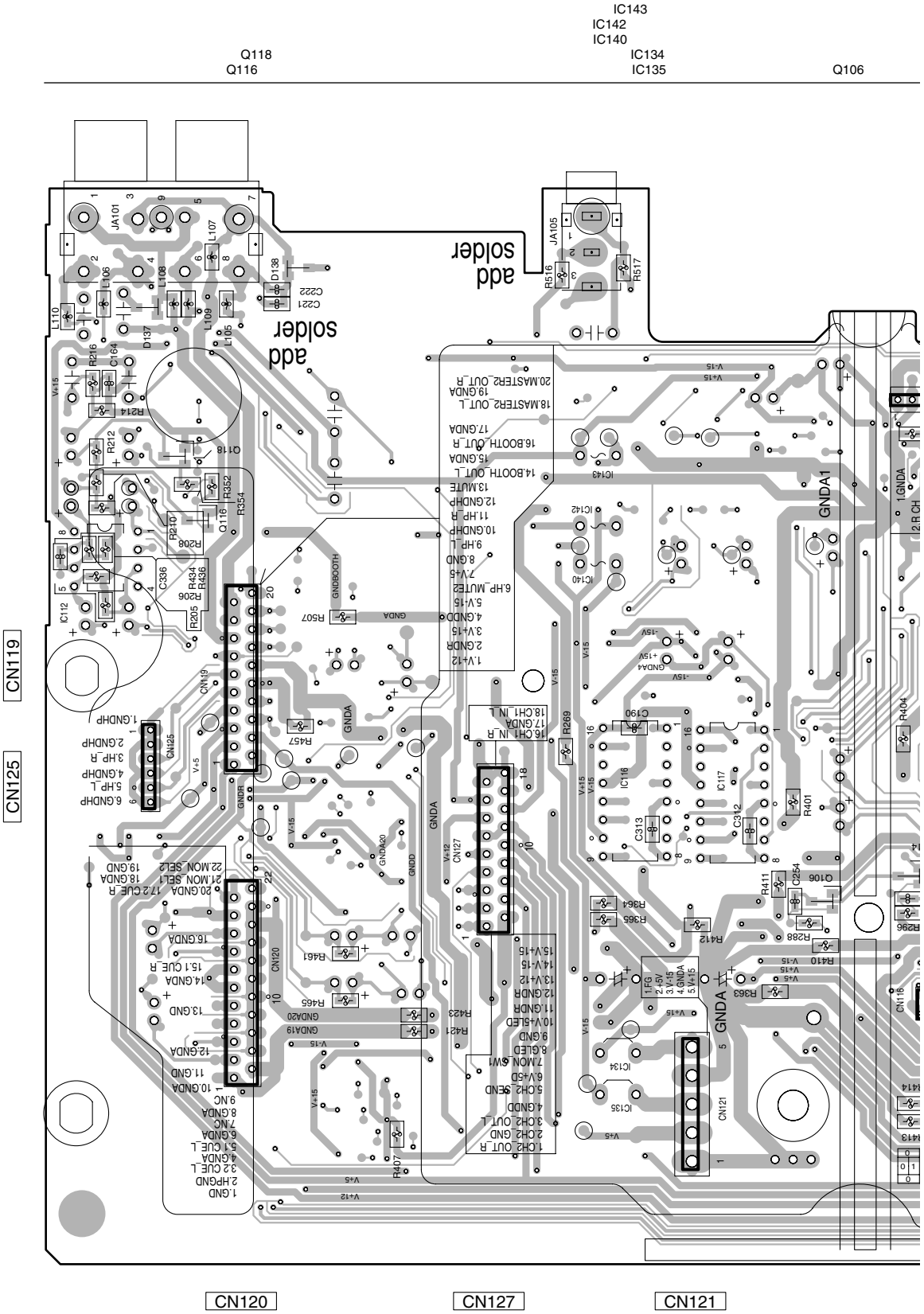
SIDE A



SIDE A


CAUTION
REPLACE IC LINKS AS MARKED
IC140,IC142 AND IC143:
491.400 MFD.BY LITTEL-
FUSE INC. DE CHEZ LIT-
TELFUSE INC.
IC143
491.400
IC142
491.400
IC140
491.400
IC134
ICP-N20
IC135
ICP-N15
ICP-N20,IC135:
ICP-N15 MFD.BY ROHM
CO.LTD.
DE CHEZ
ROHM
CO.LTD.
OPEN
CN119
H CN1452
CN125
S CN582
CN121
T CN202
CN127
F CN1351
CN120
H CN1451
(DNP2158-A)
125.5

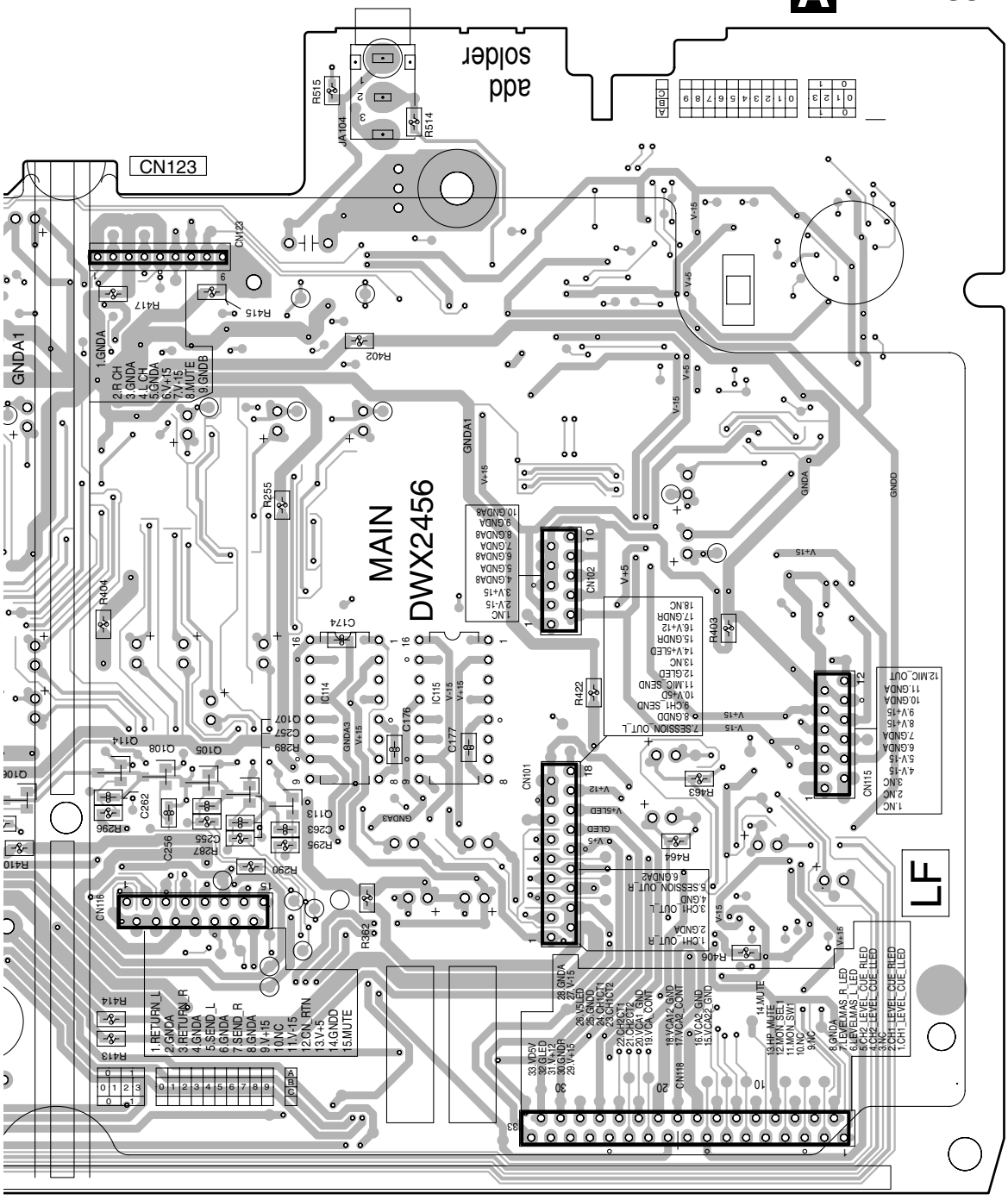
SIDE B


IC143
IC142
IC140
IC134
IC135
Q118
Q116
Q106
add solder
add solder
CN119
CN125
CN120
CN127
CN121
GNDA1
GNDA

SIDE B

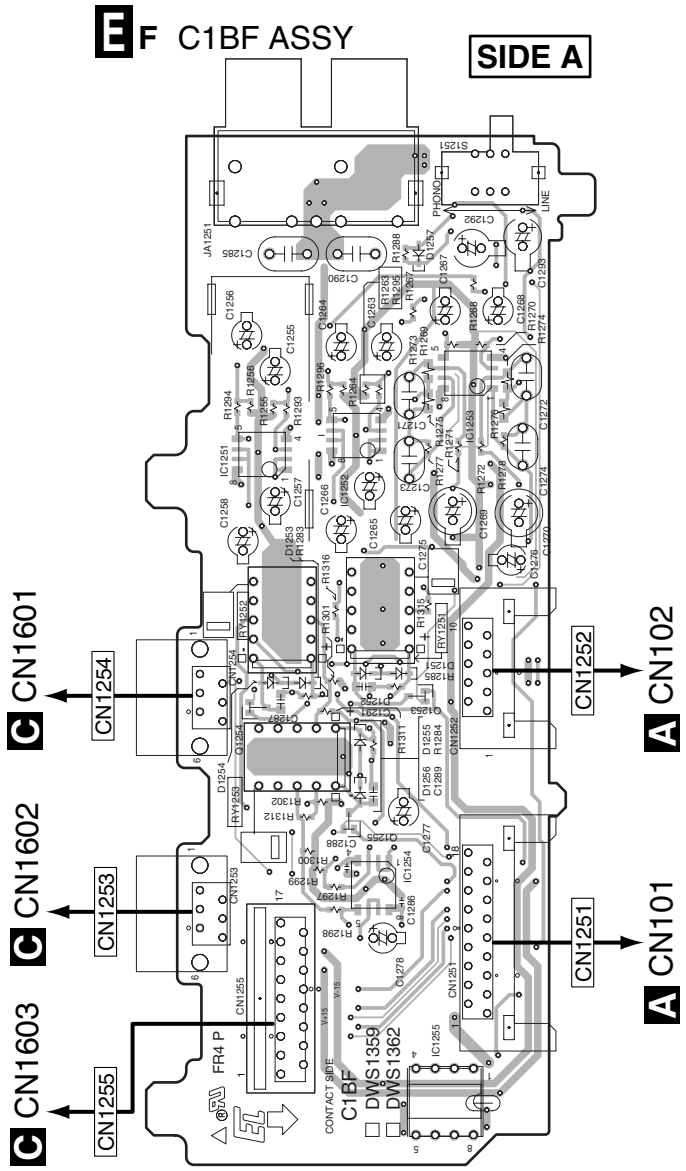
Q106 Q114 Q108 Q105 Q107 Q113

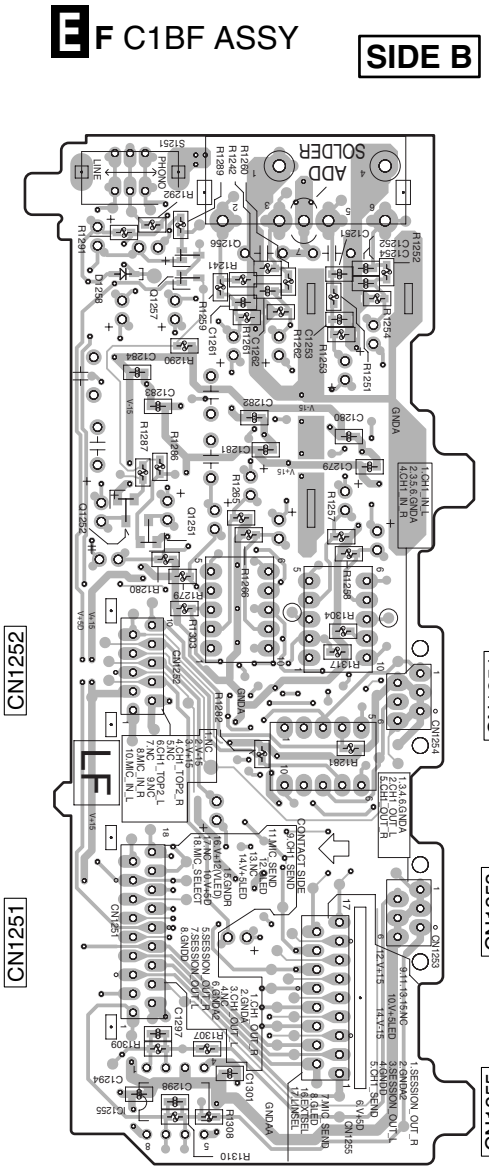
A MAIN ASSY



(DNP2158-A)

3.3 C1BF ASSY

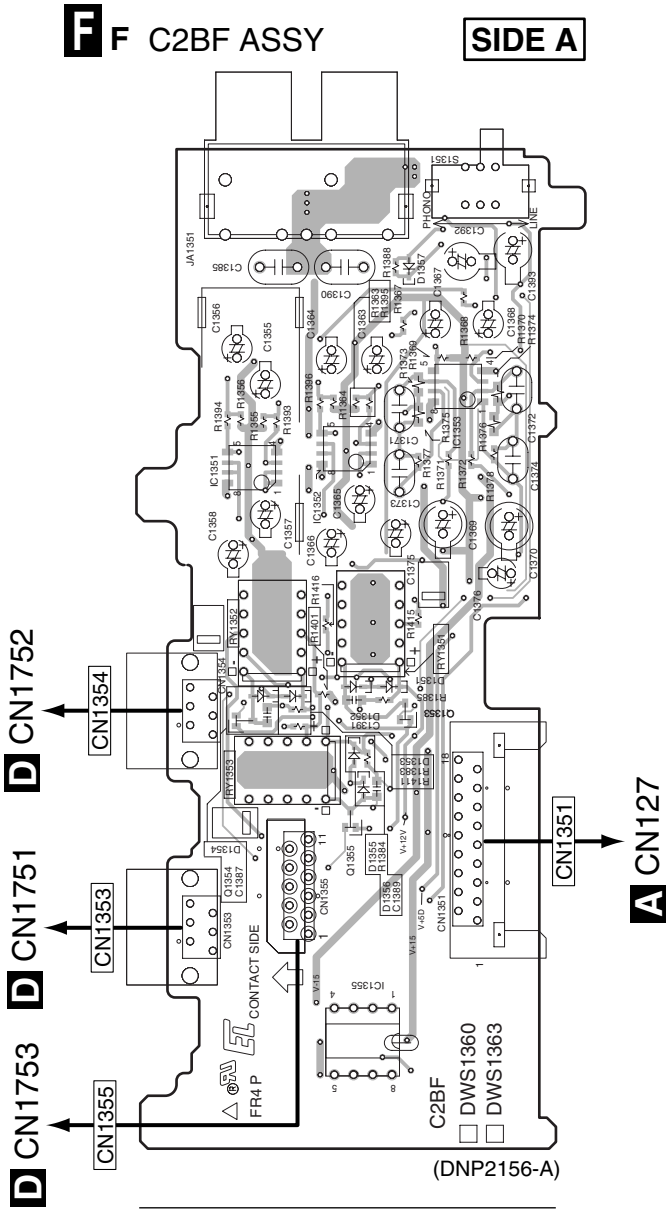


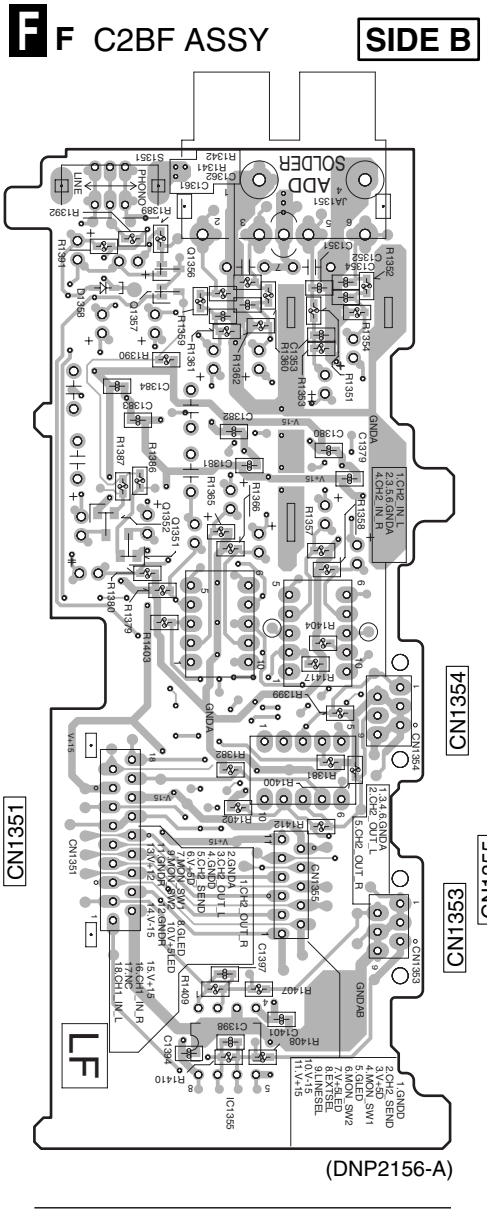


IC1251 IC1252 IC1254 IC1253 IC1255
Q1254 Q1255 Q1253

Q1252 Q1251 Q1257 Q1256

3.4 C2BF ASSY

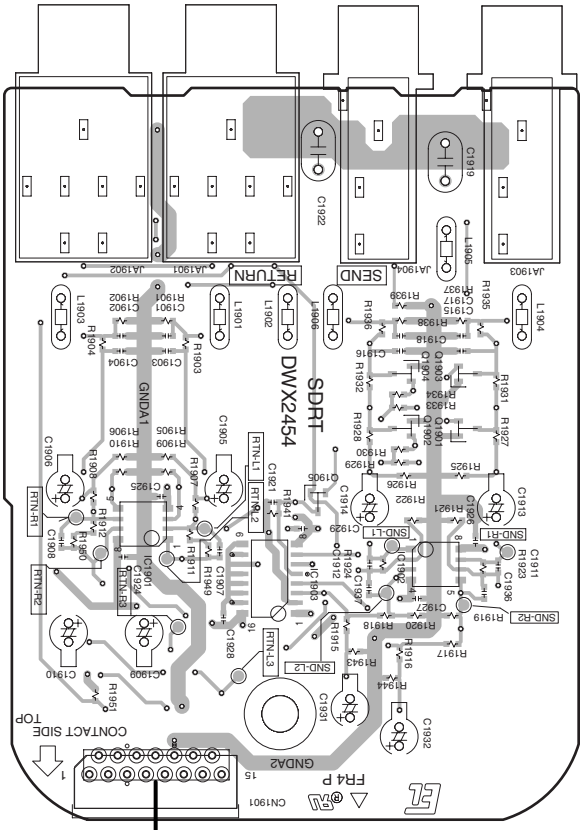

F C2BF ASSY
SIDE A
D CN1752
D CN1751
D CN1753
CN1354
CN1353
CN1355
CN1351
A CN127
CONTACT SIDE
FR4 P
C2BF
DWS1360
DWS1363
(DNP2156-A)
IC1351
IC1352
IC1353
IC1355
Q1354
Q1355
Q1353


F C2BF ASSY
SIDE B
CN1351
CN1354
CN1355
CN1353
(DNP2156-A)
Q1357
Q1356
Q1352
Q1351

3.5 SDRT ASSY

JF SDRT ASSY

SIDE A

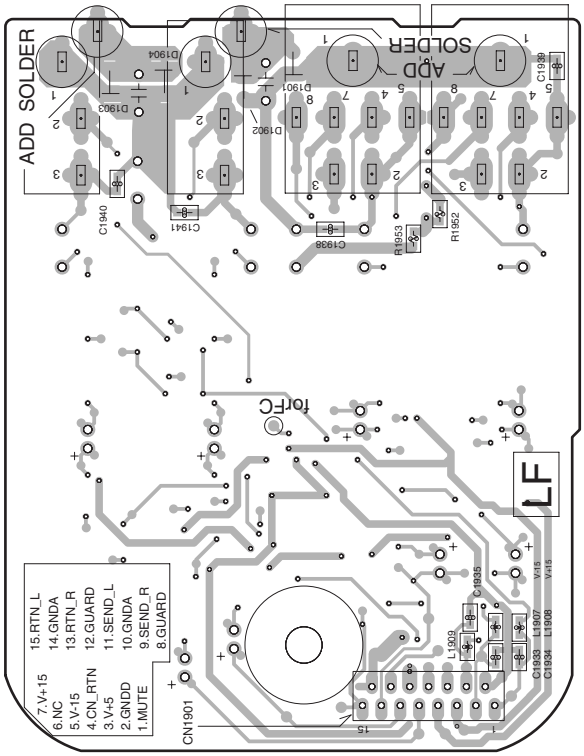


(DNP2156-A)

CN1901

A CN116

SIDE B



(DNP2156-A)

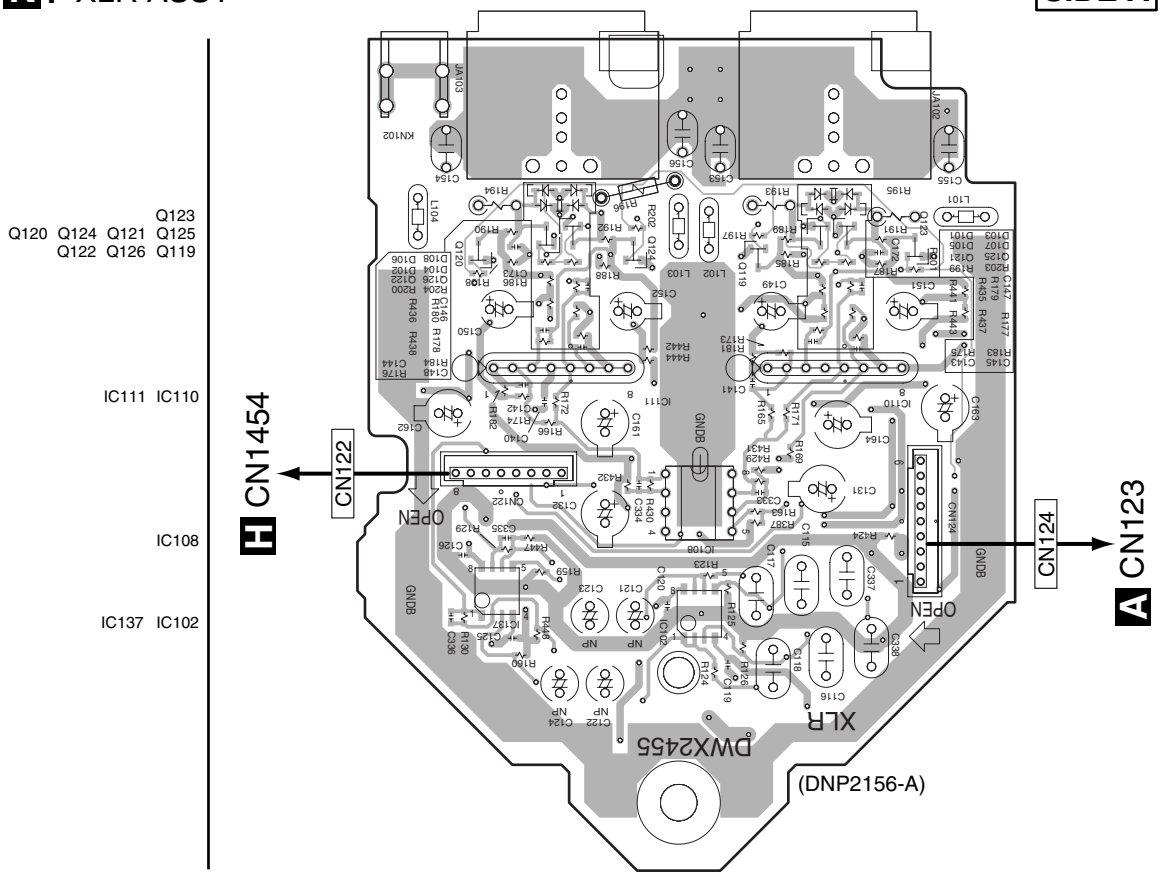
CN1901

IC1901	IC1903	IC1902
	Q1905	Q1904 Q1903
		Q1902 Q1901

3.6 XLR ASSY

KF XLR ASSY

SIDE A



KF XLR ASSY

SIDE B