

# Service Manual

ORDER NO.  
RRV2717

DVD/CD RECEIVER

# XV-DV505

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

Type	Model	Power Requirement	Region No.	Remarks
	XV-DV505			
NTXJN/RC	○	AC220V	3	

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

Model	Order No.	Remarks
XV-DV303/MYXJN	RRV2653	

# 1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The  $\Delta$  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  $\nabla$  mark on product are used for disassembly.

● Reference Nos. indicate the pages and Nos. in the service manual for the base model.

● For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

● 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  $\Omega$  →  $56 \times 10^1$  → 561 ..... RD1/4PU  $\begin{matrix} 5 & 6 & 1 \\ \hline & & J \end{matrix}$

47k  $\Omega$  →  $47 \times 10^3$  → 473 ..... RD1/4PU  $\begin{matrix} 4 & 7 & 3 \\ \hline & & J \end{matrix}$

0.5  $\Omega$  → R50 ..... RN2H  $\begin{matrix} R & 5 & 0 \\ \hline & & K \end{matrix}$

1  $\Omega$  → 1R0 ..... RS1P  $\begin{matrix} 1 & R & 0 \\ \hline & & K \end{matrix}$

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

5.62k  $\Omega$  →  $562 \times 10^1$  → 5621 ..... RN1/4PC  $\begin{matrix} 5 & 6 & 2 & 1 \\ \hline & & & F \end{matrix}$

## ● CONTRAST TABLE

XV-DV505/NTXJN/RC and XV-DV303/MYXJN are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			XV-DV303/MYXJN	XV-DV505/NTXJN/RC	
P9-1	NSP	<PCB ASSEMBLY> DVD ASSY └ DVDMM ASSY	AXA7116 AWM7750	AXA7110 AWM7684	
P9-4		FM/AM TUNER MODULE	AXQ7229	AXQ7228	
P9-6	NSP	DCS2(PRO*) MAIN ASSY └ CONTROL ASSY	AWM7730 AWU8038	AWM7757 AWU8049	* XV-DV505
P7-2		<PACKING SECTION> FM Wire Antenna	ADH7030	ADH7028	
P7-8		Operating Instructions (English)	ARB7271	Not used	
P7-9		Operating Instructions Basic (English/French)	ARE7301	Not used	
P7-10		Operating Instructions Basic (German/Italian)	ARC7406	Not used	
P7-11		Operating Instructions (German)	ARC7407	Not used	
P7-12		Operating Instructions Basic (Dutch/Spanish)	ARC7408	Not used	
P7-13		Operating Instructions (Dutch)	ARC7409	Not used	
P7-14		Operating Instructions (French)	ARC7436	Not used	
P7-15		Operating Instructions (Italian)	ARC7437	Not used	
P7-16		Operating Instructions (Spanish)	ARC7438	Not used	
		Operating Instructions (Thai)	Not used	ARC7470	
P7-17	NSP	Operating Instruction Basic (Thai)	Not used	ARC7469	
P7-17		Warranty Card	ARY7022	Not used	
P7-20		Packing Case	AHD8074	AHD8161	
P9-23		<EXTERIOR SECTION> Rear Panel	ANC8096	ANC8176	
P9-44		Getter Label DCS2	AAX7920	AAX7931	
P9-45		Name Sheet	AAX7927	AAX7949	
P11-6		<FRONT SECTION> Display Window	AAK8015	AAK8063	

Notes: ● For ASSEMBLIES, refer to "CONTRAST OF PCB ASSEMBLIES", "PCB PARTS LIST" and "2. SCHEMATIC DIAGRAM".

## ● CONTRAST OF PCB ASSEMBLIES

### **B**F DVDM ASSY

AWM7684 and AWM7750 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWM7750	AWM7684	
	IC603 (FLASH ROM) C627 C698 C638, C696 R2  R1	VYW2000 CCSRCH220J50 CCSRCH220J50 CCSRCH470J50 RS1/16S103J  Not used	VYW2002 CCSRCH471J50 Not used CCSRCH471J50 RS1/16S272J  RS1/16S682J	

### **G**F CONTROL ASSY

AWU8048 and AWU8038 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWU8038	AWU8049	
	IC5501( $\mu$ -Com) IC5701 (RDS Decoder) C3141, C3142 C3043, C3044 C5701  C5705 C5706, C5707 C5702 C5703 C5704  R3133, R3134 R3151, R3152 R3155, R3156 R3135, R3136 R5532  R5539 R5705 R5731, R5732 R5781, R5782 X5701(4.332MHz)	PDC098A BU1923F CKSRYB103K50 Not used CEAL100M16  CEAT470M16 CCSRCH270J50 CCSRCH271J50 CCSRCH561J50 CKSRYB103K50  RS1/16S0R0J RS1/16S562J RS1/16S473J Not used Not used  RS1/16S473J RS1/16S101J RS1/16S682J Not used ASS7004	PDC105A Not used CKSRYB183K25 CKSRYB223K50 Not used  Not used Not used Not used Not used Not used  Not used RS1/16S392J RS1/16S224J RS1/16S473J RS1/16S473J  Not used Not used RS1/16S104J RS1/16S473J Not used	

Mark	No.	Description	Part No.
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## ● PCB PARTS LIST

### EF FM/AM TUNER MODULE

#### SEMICONDUCTORS

IC201		BA1451F
IC202		LC72131MD
Q201,Q204,Q205		2SC2412K
Q202		DTA124ES
Q203		DTC124EK
D201		1SS133
D202		MTZJ5.1C

#### COIL AND FILTERS

L201	FM DETECTOR COIL	ATE7003
F202	FM CERAMIC FILTER	ATF-107
F201	FM CERAMIC FILTER	ATF-119
F203	AM CERAMIC FILTER	ATF1155

#### CAPACITORS

C206		CCSRCH100D50
C212,C213,C226,C233-C235		CCSRCH101J50
C240		CCSRCH101J50
C231,C232		CCSRCH150J50
C223		CEAT100M50
C229		CEAT101M10
C224		CEAT1R0M50
C227		CEAT220M25
C241		CEAT2R2M50
C243		CEAT330M16
C228		CEAT3R3M50
C237		CEAT470M10
C211		CEJA1R0M50
C210		CEJA470M16
C204,C238,C602		CKSRYB102K50
C101,C102,C208,C220,C239		CKSRYB103K50
C242,C601		CKSRYB103K50
C216,C217		CKSRYB123K50
C225		CKSRYB153K50
C201,C205,C209,C214,C230		CKSRYB223K50
C236,C603		CKSRYB223K50
C221		CKSRYB224K10
C202,C222		CKSRYB473K16
C215		CKSRYB681K50

#### RESISTORS

R211		RD1/4PU221J
R221		RD1/4PU222J
R233		RD1/4PU391J
R243		RS1/10S0R0J
R103		RS1/10S331J
R104		RS1/10S391J
Other Resistors		RS1/16S□□□J

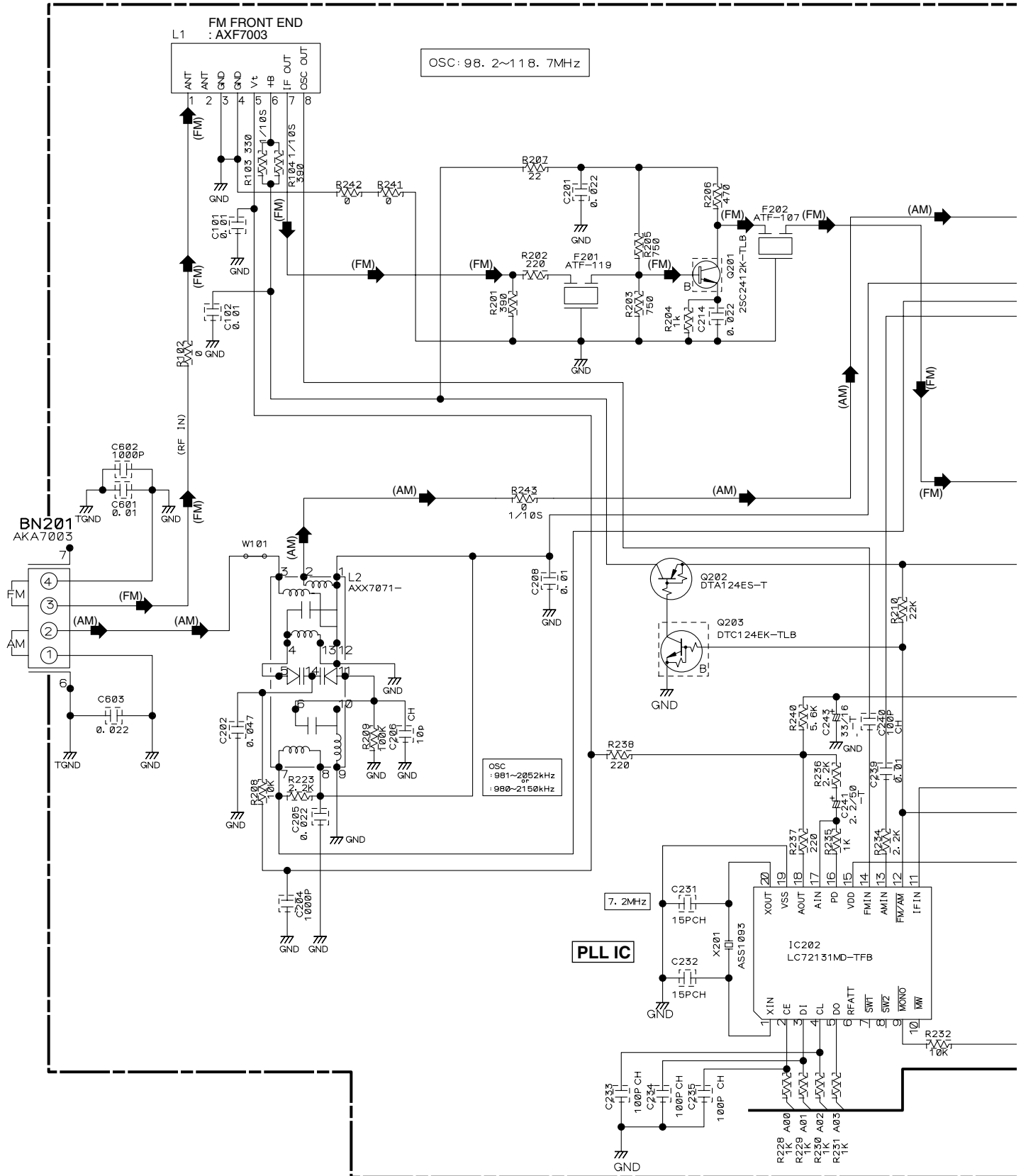
#### OTHERS

CN201	13P FFC CONNECTOR	52044-1345
BN201	4P ANTENNA TERMINAL	AKA7003
	SHIELD CASE T	ANK7072
	SHIELD CASE B	ANK7073
X201	CRYSTAL RESONATOR (7.2MHz)	ASS1093
L1	FM FRONT END	AXF7003
L2	AM RF TUNING BLOCK	AXX7071



# 2.2 FM/AM TUNER MODULE

## EF FM/AM TUNER MODULE (AXQ7228)



Notes

1. RESISTORS

Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.

2. CAPACITORS

Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P:PF.

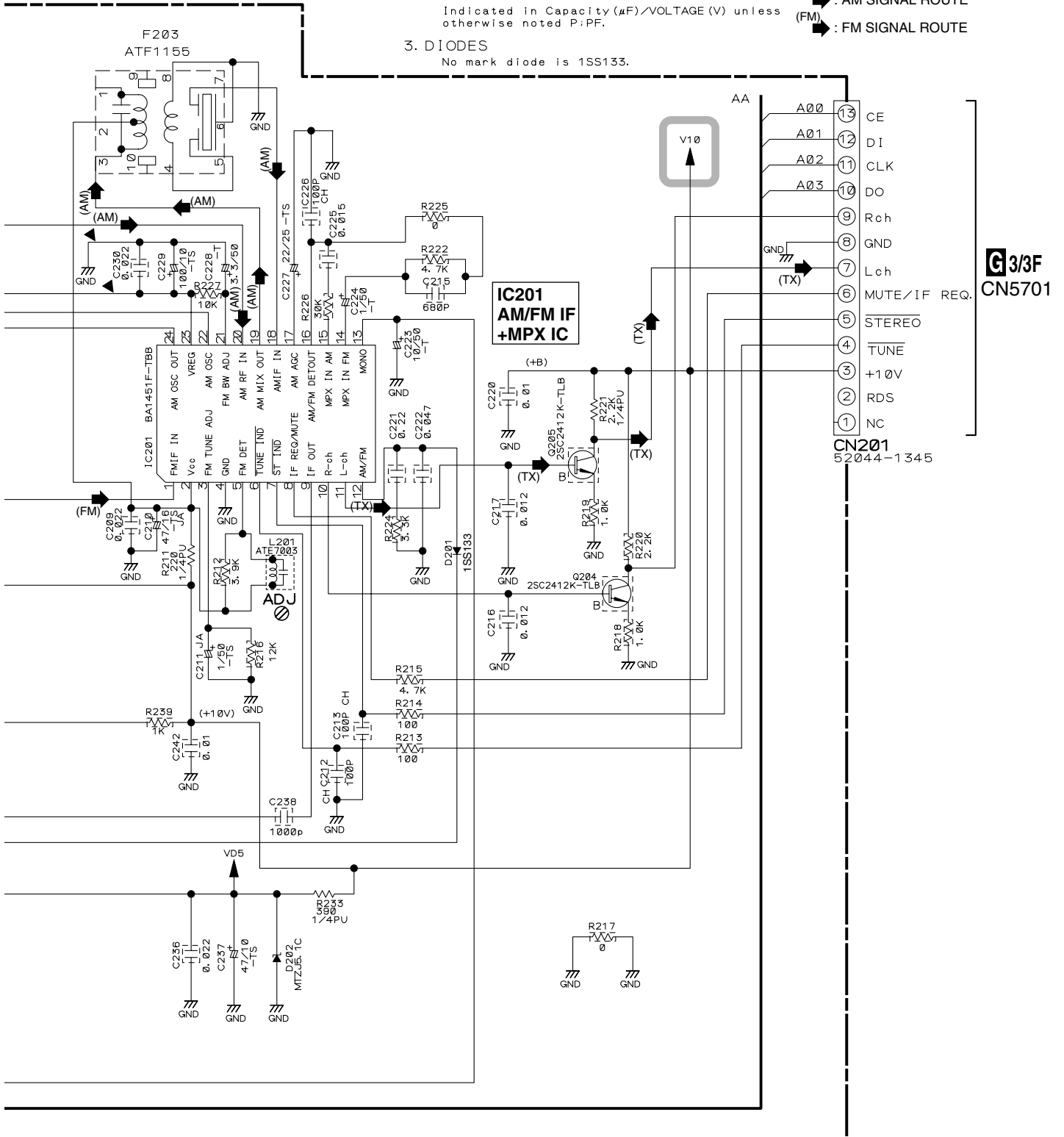
3. DIODES


No mark diode is 1SS133.

(TX) : AUDIO SIGNAL ROUTE (TUNER)

(AM) : AM SIGNAL ROUTE

(FM) : FM SIGNAL ROUTE



 : The power supply is shown with the marked box.

G3/3F  
CN5701

CN201  
52044-1345

# 2.3 CONTROL ASSY(2/3)

## NOTES

ALL CAPACITORS ARE IN  $\mu$ F  
 UNLESS OTHERWISE SPECIFIED  
 CH : CCSRCH (OTHER : CKSRYB)  
 TY : CFTYA  
 AL : CEAL  
 HA : CEHAT  
 (OTHER : CEAT)

ALL RESISTORS ARE IN  $\Omega$   
 RD1/2VM\*\*\*J  
 RS1/16S\*\*\*J

### LPF & GAIN

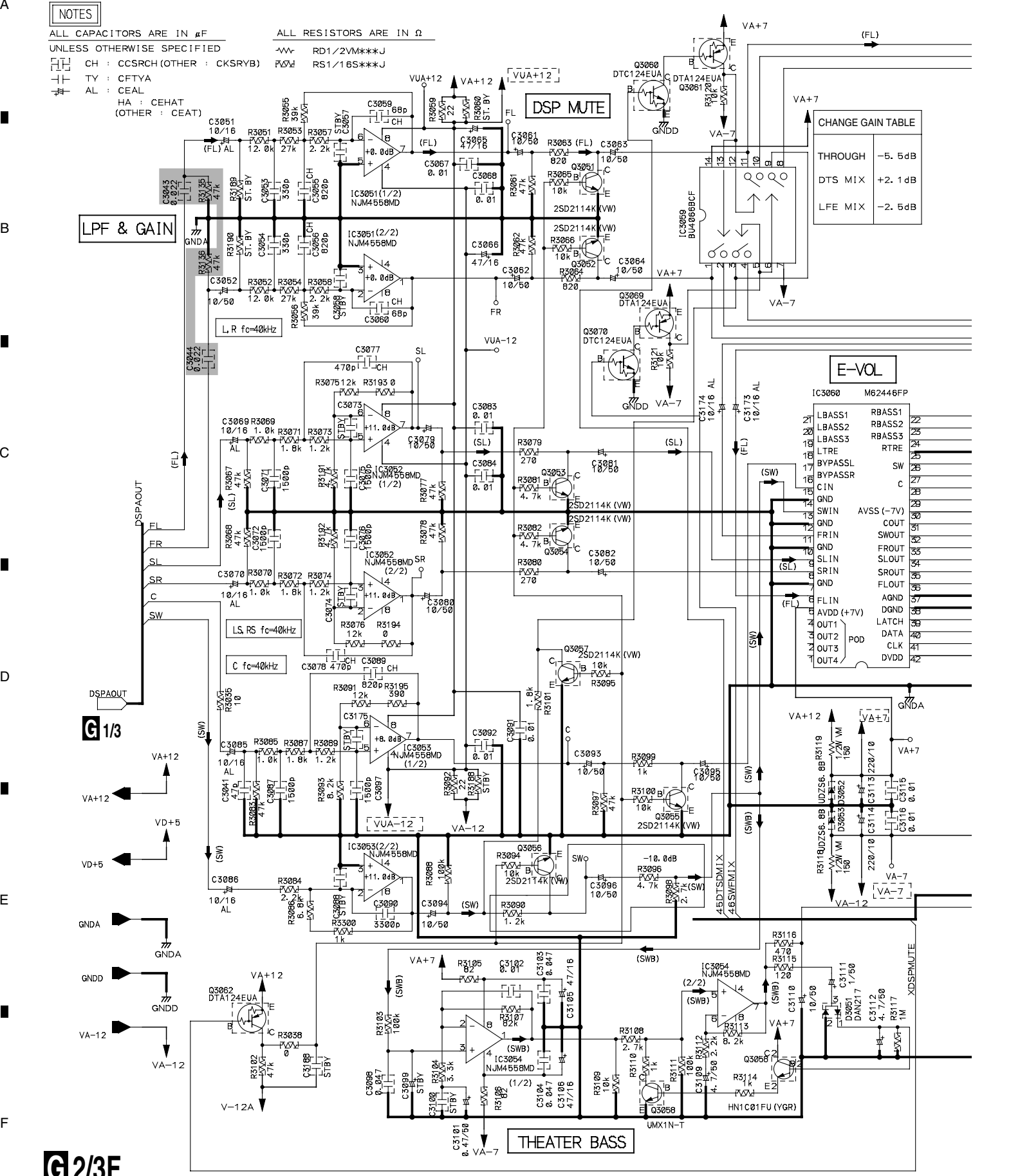
### DSP MUTE

### CHANGE GAIN TABLE

THROUGH	-5.5dB
DTS MIX	+2.1dB
LFE MIX	-2.5dB

### E-VOL

### THEATER BASS



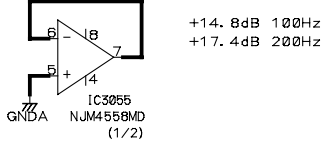
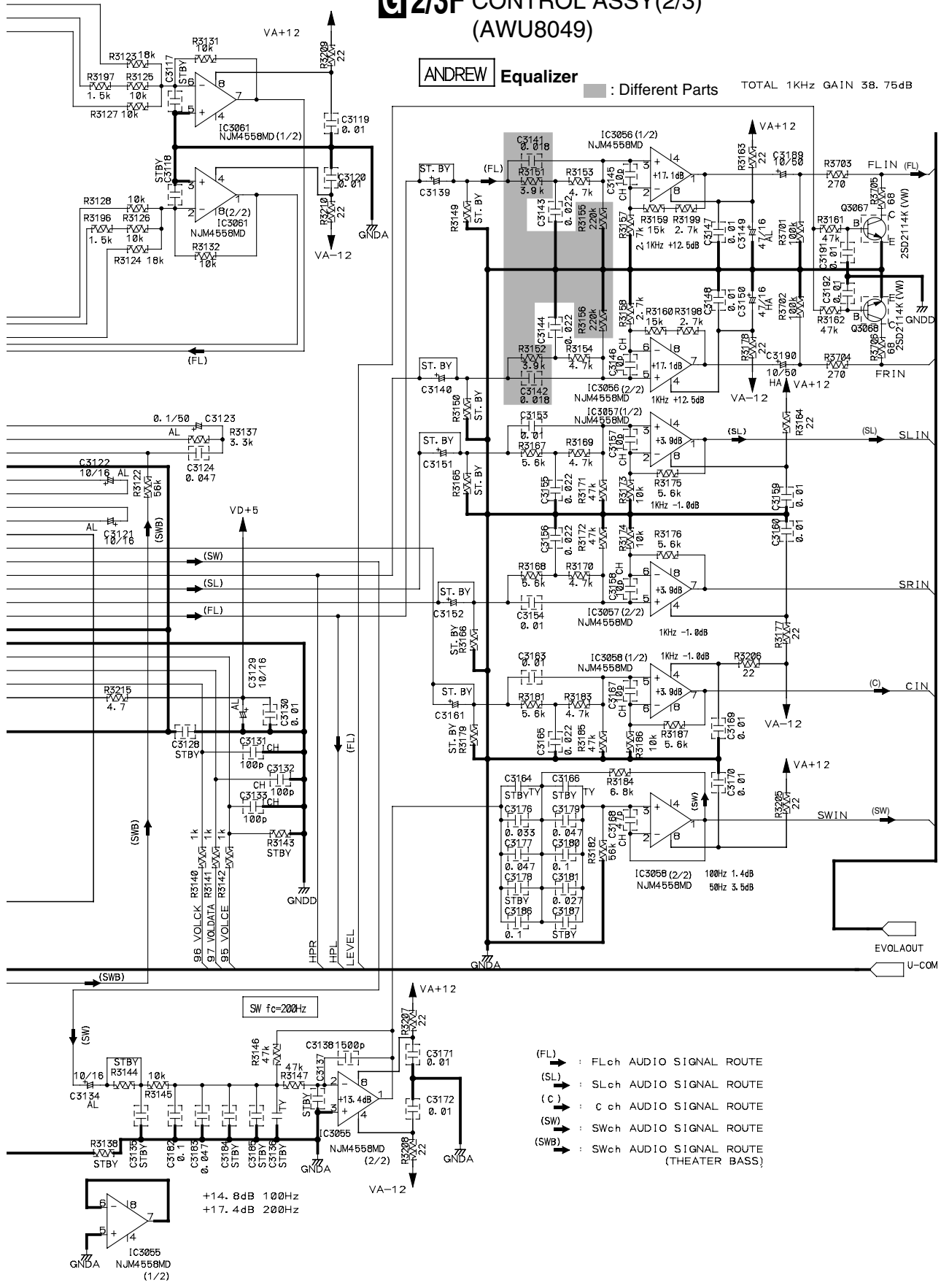
### IC3060 M62446FP

1	LBASS1	RBASS1	22
2	LBASS2	RBASS2	23
3	LBASS3	RBASS3	24
4	LTR3	RTRE	25
5	BYPASSL	SW	26
6	BYPASSR		27
7	CIN	C	28
8	GND	AVSS (-7V)	29
9	SWIN	GND	30
10	GND	COUT	31
11	FRIN	SWOUT	32
12	GND	FROUT	33
13	SLIN	SLOUT	34
14	SRIN	SRROUT	35
15	GND	FROUT	36
16	FLIN	AGND	37
17	AVDD (+7V)	GND	38
18	OUT1	LATCH	39
19	OUT2	DATA	40
20	OUT3	CLK	41
21	OUT4	DVDD	42



# G 2/3F CONTROL ASSY(2/3) (AWU8049)

**ANDREW Equalizer** : Different Parts TOTAL 1KHz GAIN 38.75dB



- (FL) : FLch AUDIO SIGNAL ROUTE
- (SL) : SLch AUDIO SIGNAL ROUTE
- (C) : C ch AUDIO SIGNAL ROUTE
- (SW) : SWch AUDIO SIGNAL ROUTE
- (SWB) : SWch AUDIO SIGNAL ROUTE (THEATER BASS)

**G 1/3**

