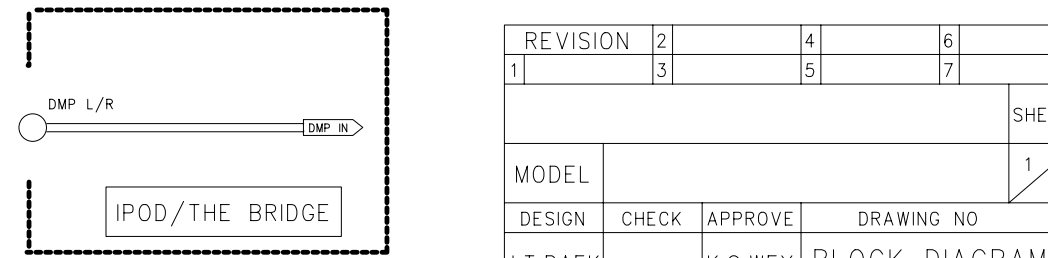
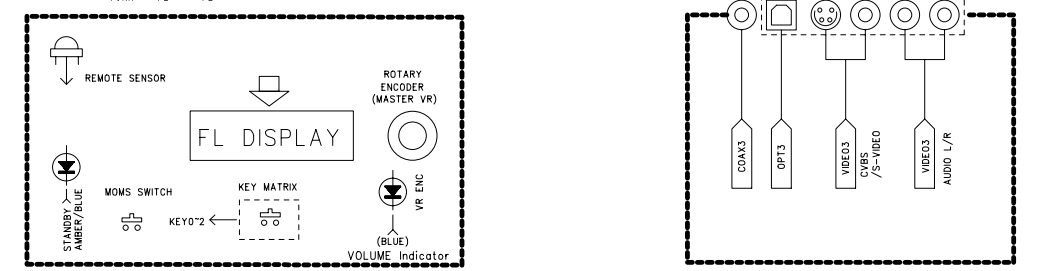
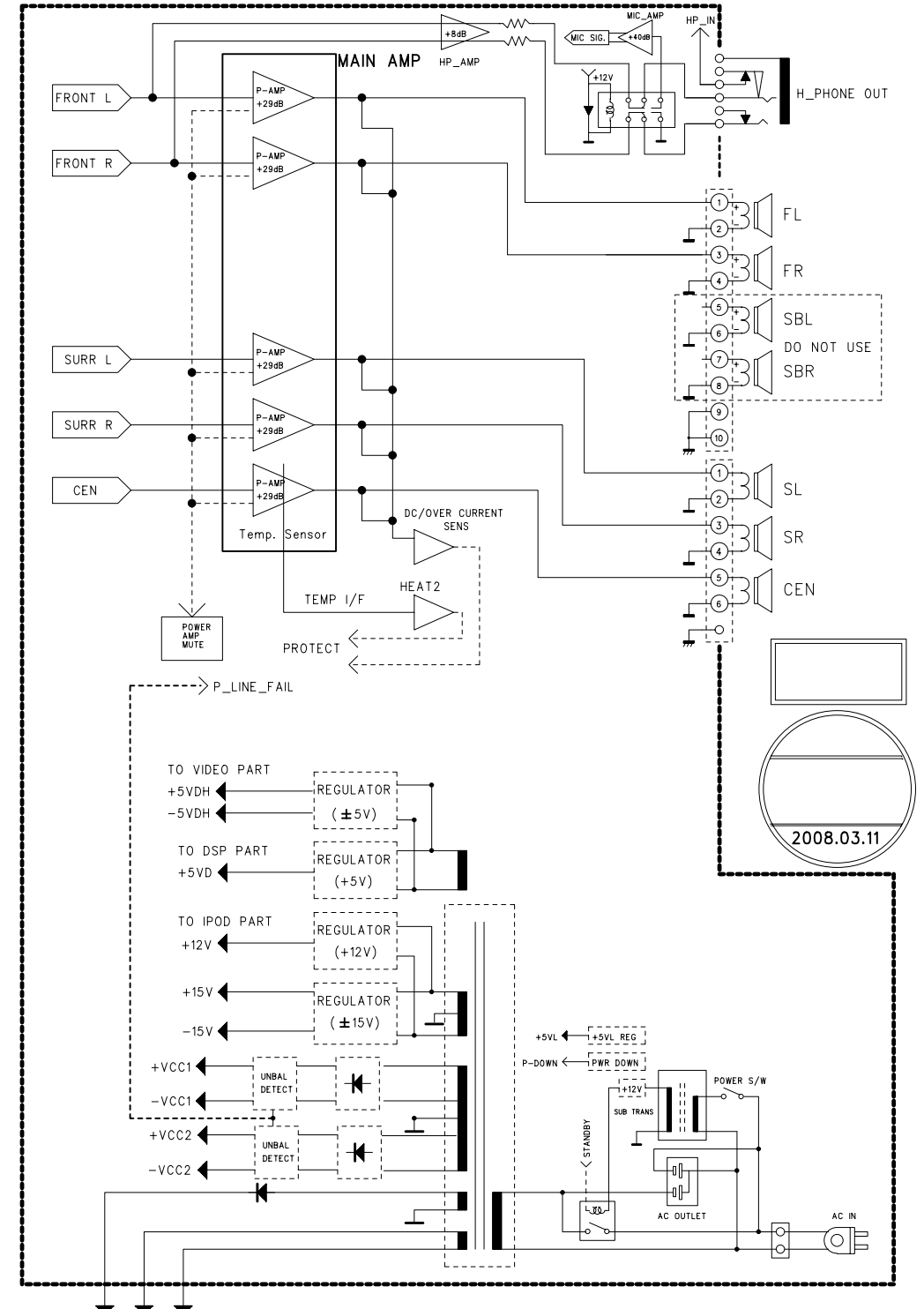
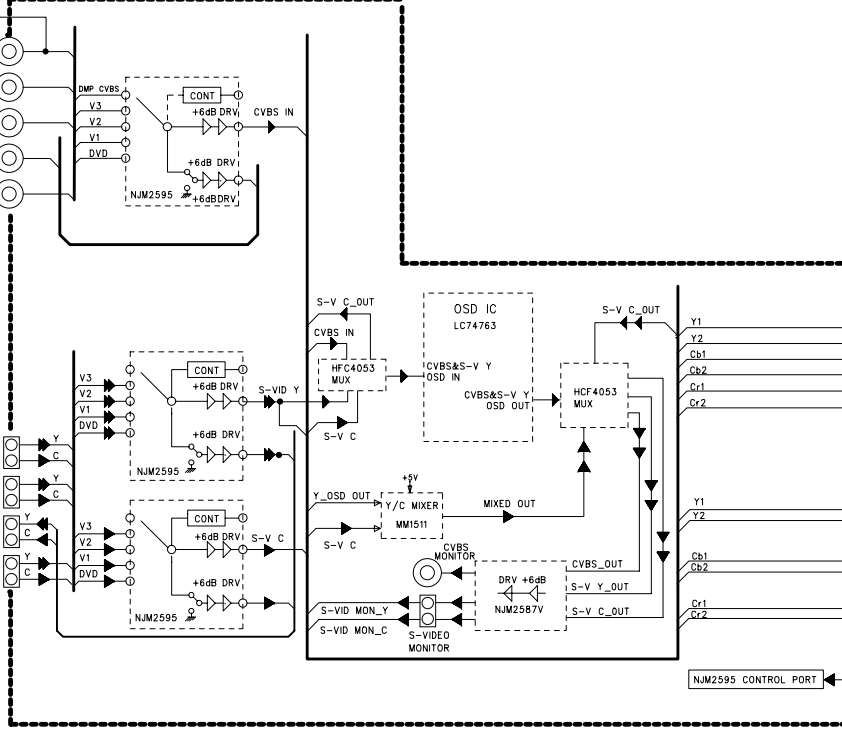
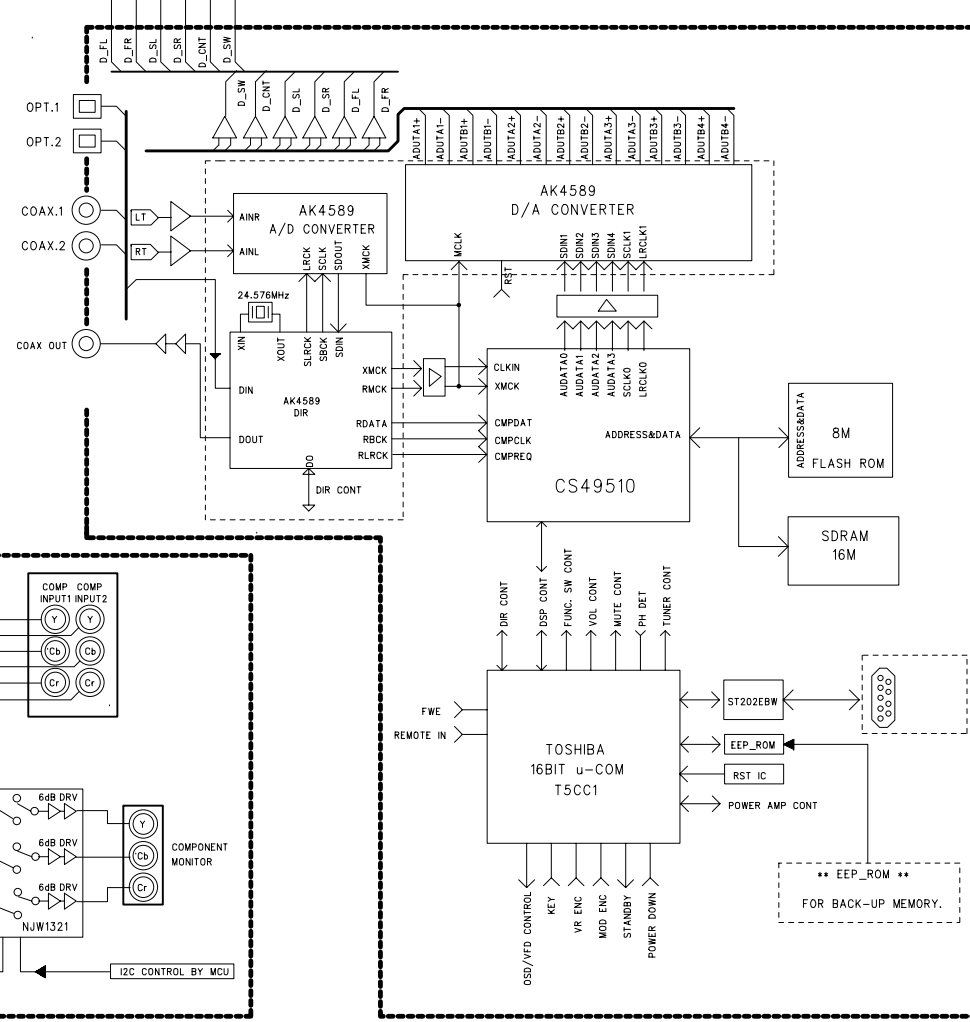
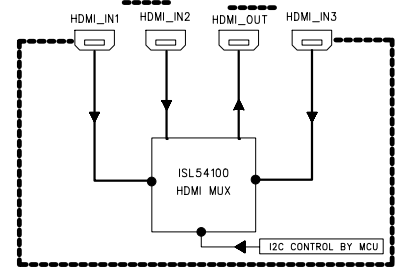
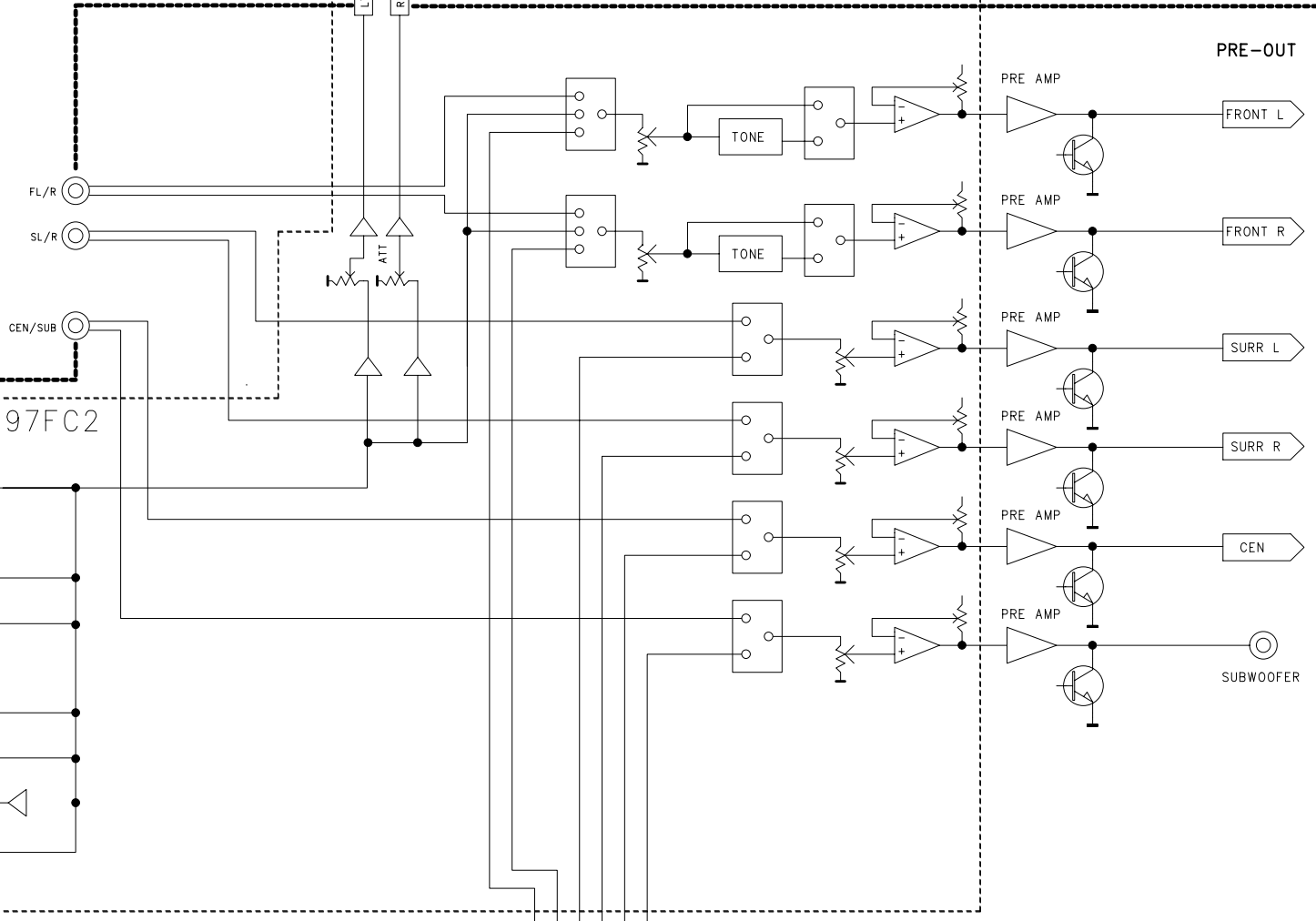
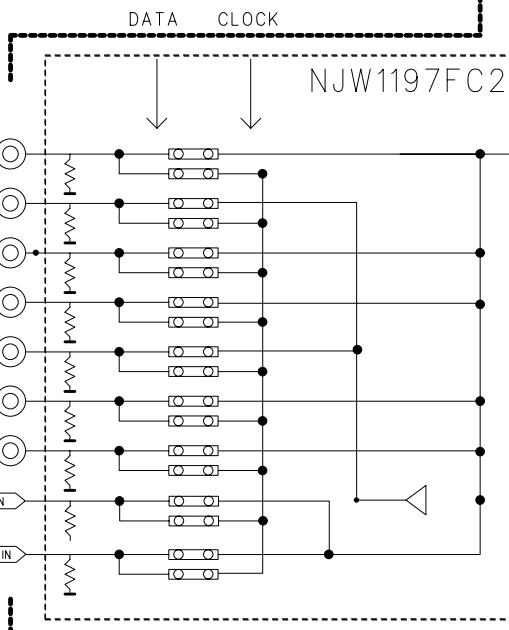
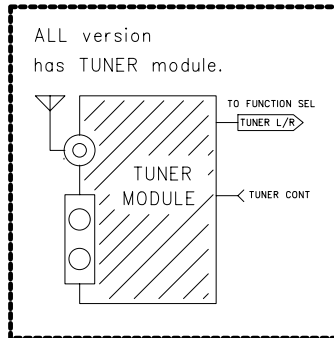
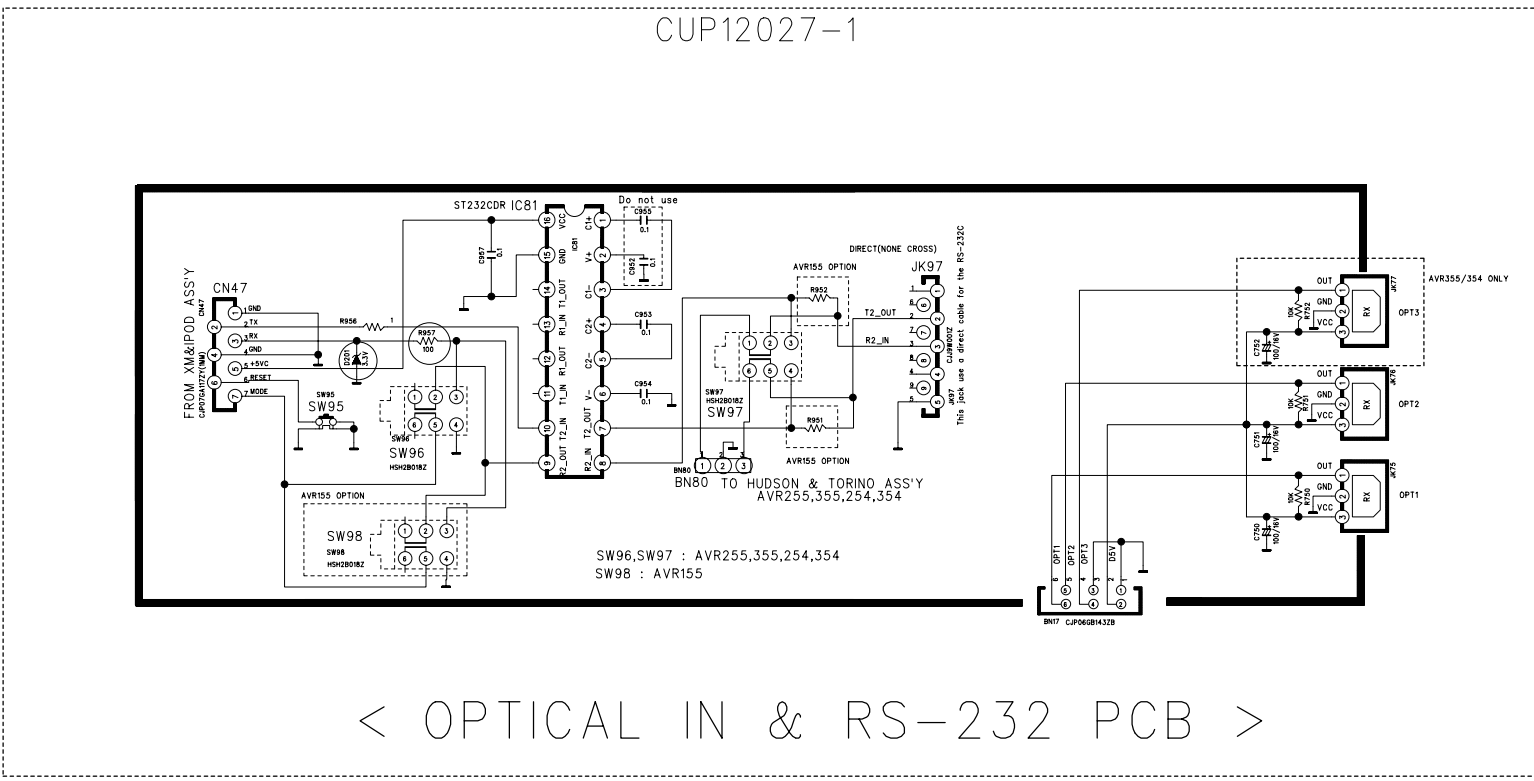


AVR154 BLOCK DIAGRAM

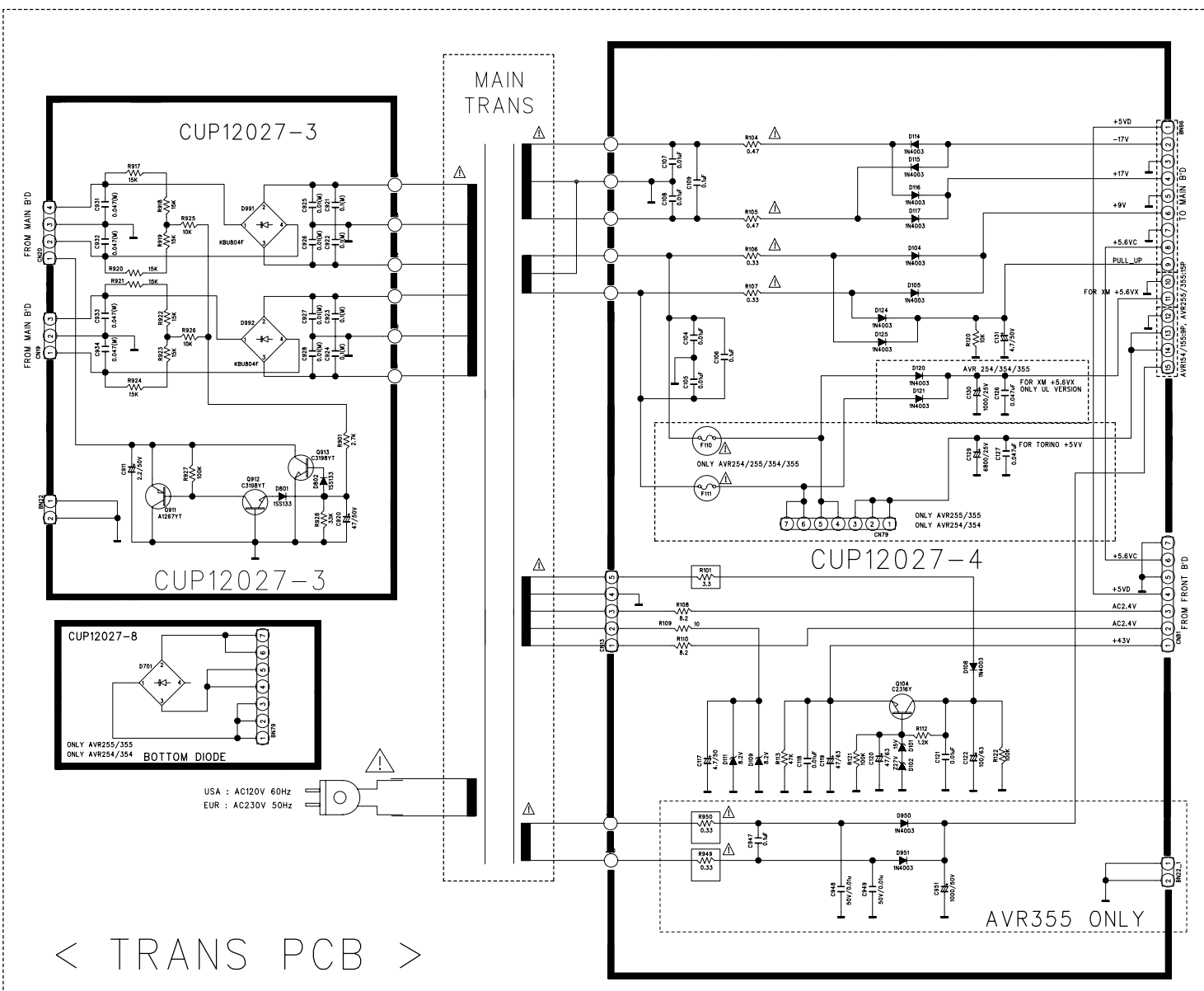
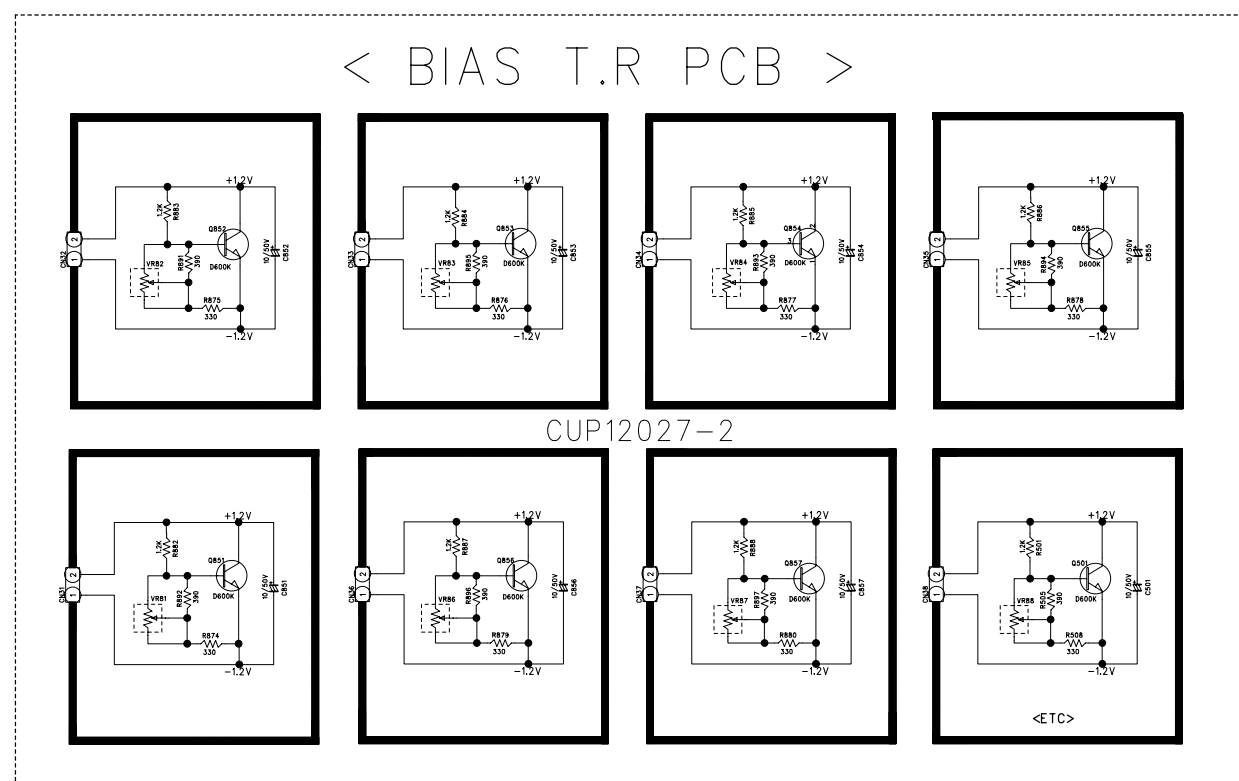


2008.03.11

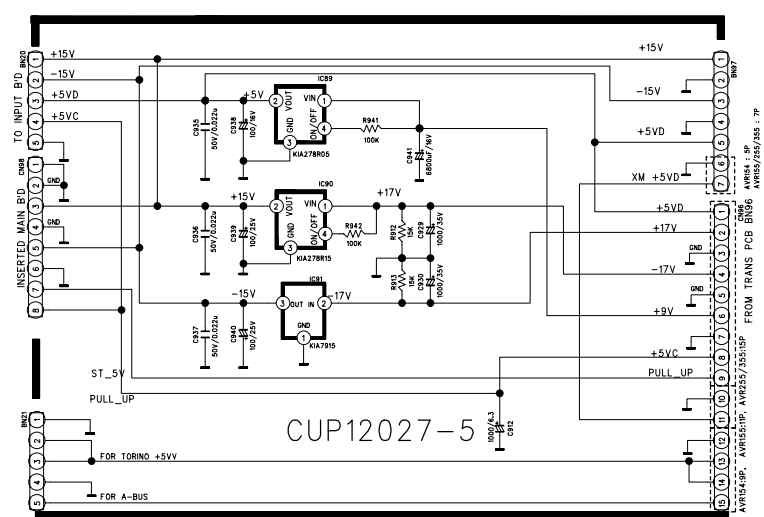
REVISION	2	4	6
1	3	5	7
MODEL	1		
DESIGN	CHECK	APPROVE	DRAWING NO
J.T.BAEK		K.S.WEY	BLOCK DIAGRAM
	08.03.11	08.03.11	



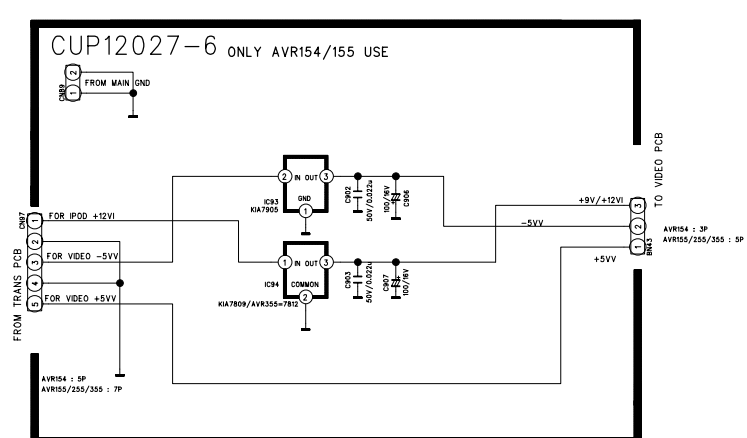
< OPTICAL IN & RS-232 PCB >



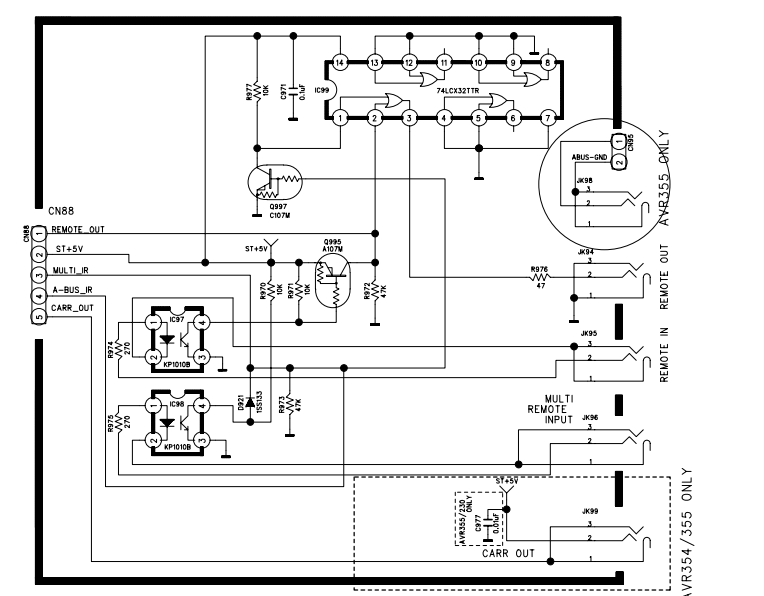
< TRANS PCB >



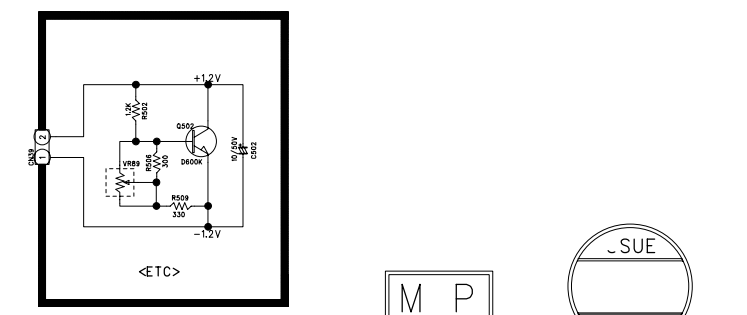
CUP12027-5



< REGULATOR PCB >



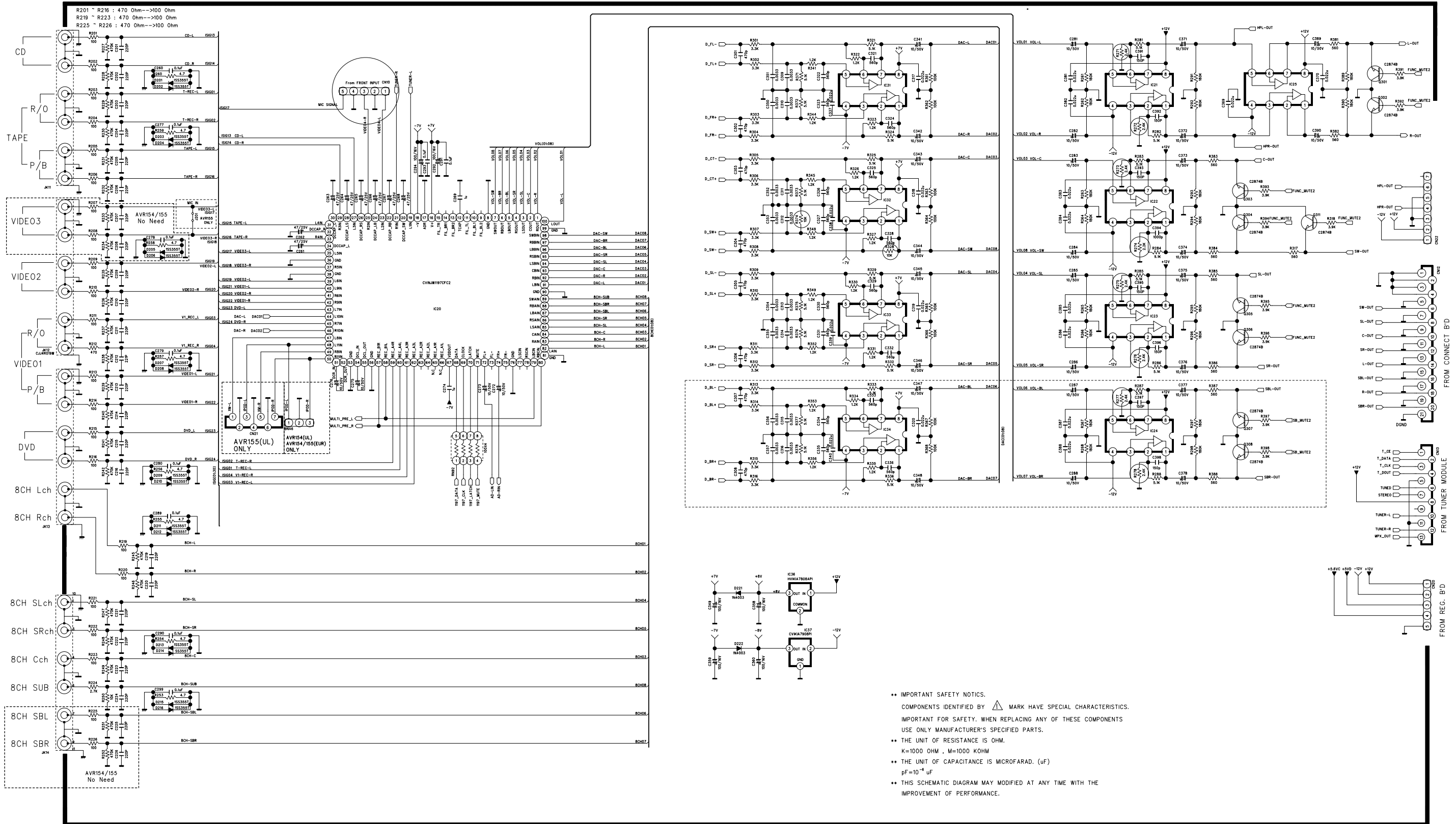
< REMOTE IN/OUT PCB >



REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR x54/x55		
DESIGN	CHECK	APPROVE	DRAWING NO
J.T.B	Y.Y.W	K.S.W	CUP12027Z
08.01.22			(POWER)

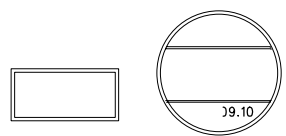
AVR154

harman/kardon

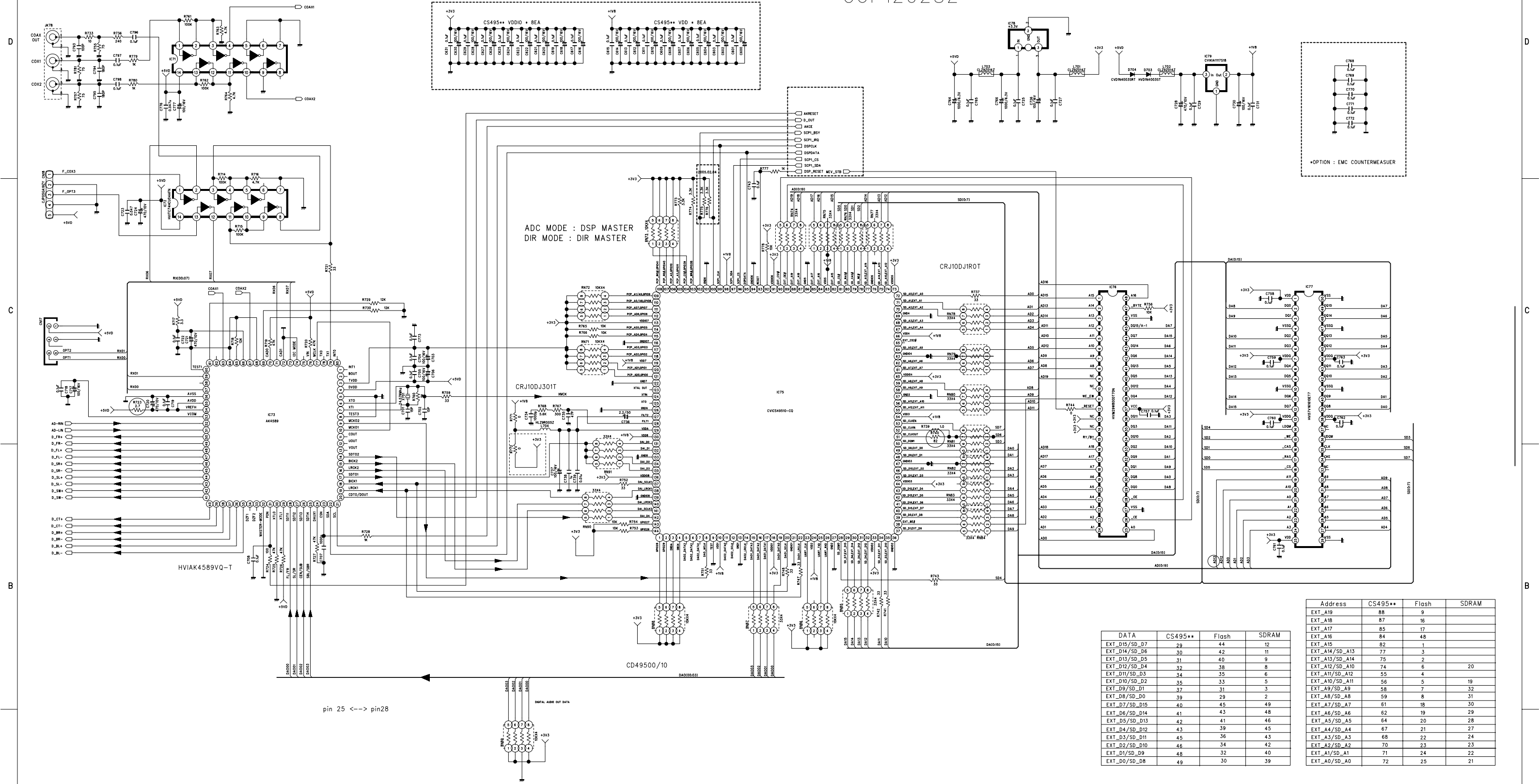


•• IMPORTANT SAFETY NOTICES.
 COMPONENTS IDENTIFIED BY Δ MARK HAVE SPECIAL CHARACTERISTICS.
 IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.
 •• THE UNIT OF RESISTANCE IS OHM.
 K=1000 OHM , M=1000 KOHM
 •• THE UNIT OF CAPACITANCE IS MICROFARAD. (uF)
 pF=10⁻⁶ uF
 •• THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
 IMPROVEMENT OF PERFORMANCE.

REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR154/155		
DESIGN	CHECK	APPROVE	DRAWING NO
C.B.LEE	W.Y.YANG	G.S.WEY	2028SCLZ
07.05.28			(INPUT)



CUP12028Z



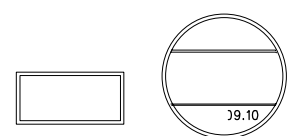
ADC MODE : DSP MASTER
DIR MODE : DIR MASTER

*OPTION : EMC COUNTERMEASUR

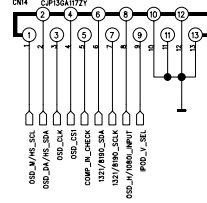
DATA	CS495**	Flash	SDRAM
EXT_D15/SD_D7	29	44	12
EXT_D14/SD_D6	30	42	11
EXT_D13/SD_D5	31	40	9
EXT_D12/SD_D4	34	38	6
EXT_D11/SD_D3	32	35	5
EXT_D10/SD_D2	35	33	5
EXT_D9/SD_D1	37	31	3
EXT_D8/SD_D0	39	29	2
EXT_D7/SD_D15	40	45	49
EXT_D6/SD_D14	41	43	48
EXT_D5/SD_D13	42	41	46
EXT_D4/SD_D12	43	39	45
EXT_D3/SD_D11	45	36	43
EXT_D2/SD_D10	46	34	42
EXT_D1/SD_D9	48	32	40
EXT_D0/SD_D8	49	30	39

Address	CS495**	Flash	SDRAM
EXT_A19	88	9	
EXT_A18	87	16	
EXT_A17	85	17	
EXT_A16	84	48	
EXT_A15	82	1	
EXT_A14/SD_A13	77	3	
EXT_A13/SD_A14	75	2	
EXT_A12/SD_A10	74	6	20
EXT_A11/SD_A12	55	4	
EXT_A10/SD_A11	56	5	19
EXT_A9/SD_A9	58	7	32
EXT_A8/SD_A8	59	8	31
EXT_A7/SD_A7	61	18	30
EXT_A6/SD_A6	62	19	29
EXT_A5/SD_A5	64	20	28
EXT_A4/SD_A4	67	21	27
EXT_A3/SD_A3	68	22	24
EXT_A2/SD_A2	70	23	23
EXT_A1/SD_A1	71	24	22
EXT_A0/SD_A0	72	25	21

REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR154/155		
DESIGN	CHECK	APPROVE	DRAWING NO
C.B.LEE	W.Y.YANG	G.S.WEY	2028SCLZ
07.05.28			(DSP)

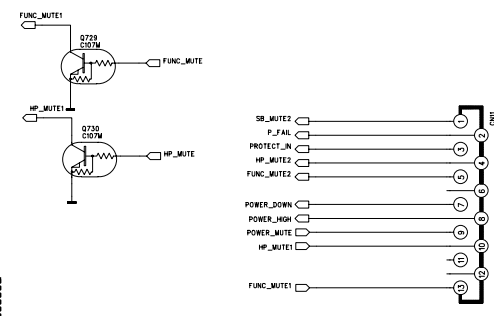
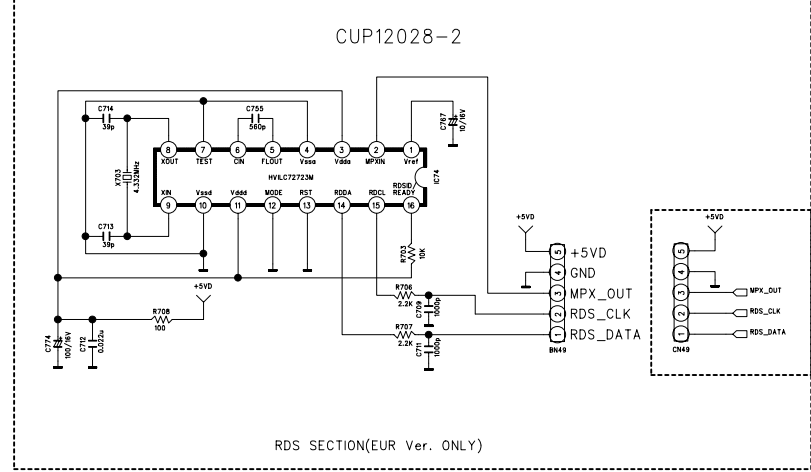
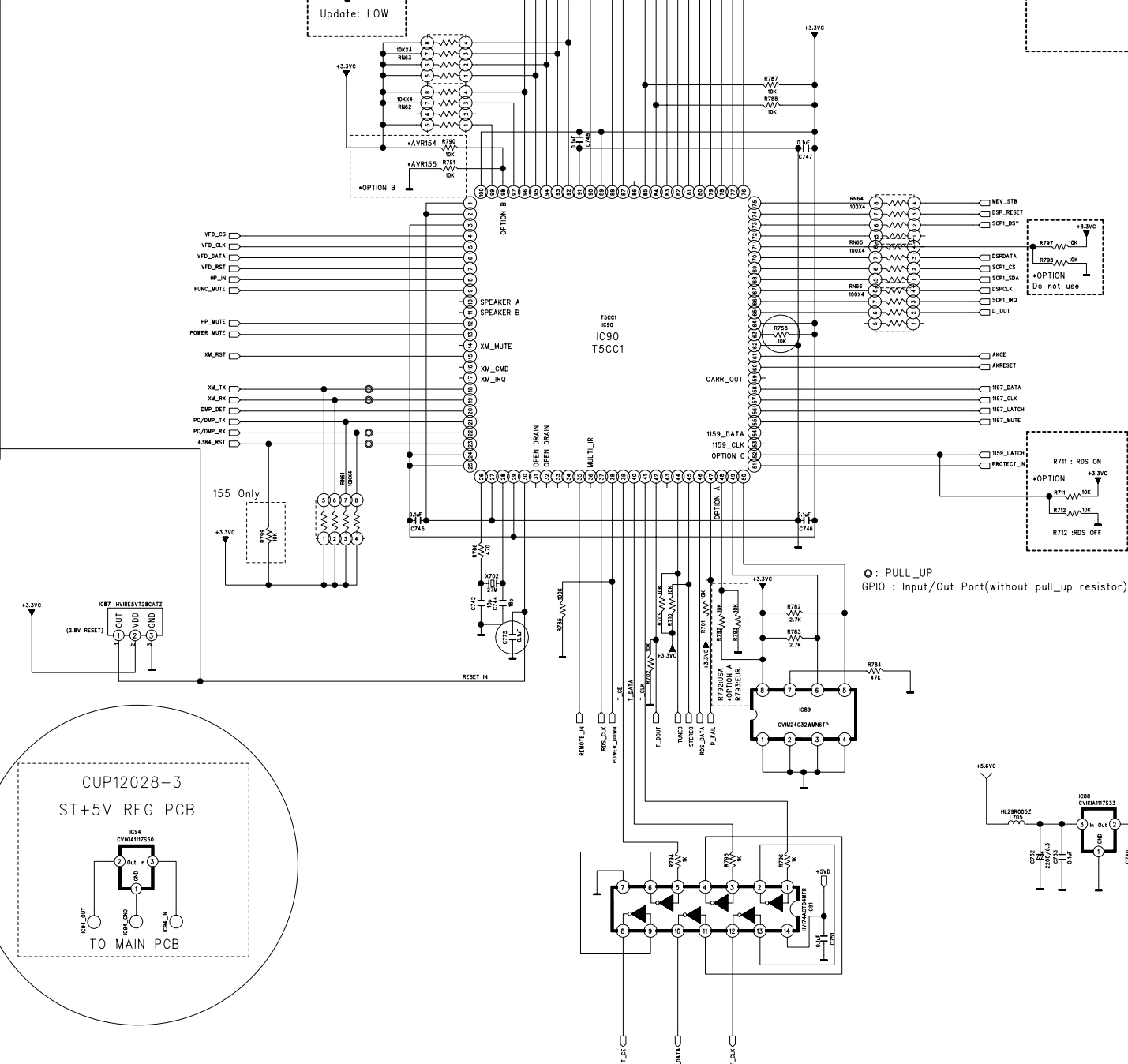
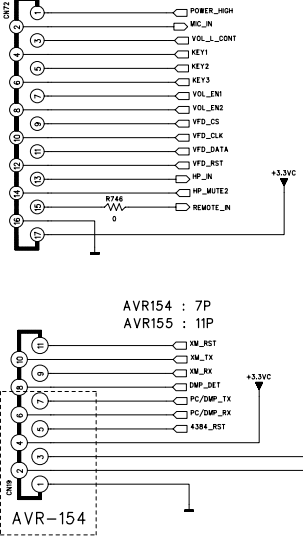


TO VIDEO PCB



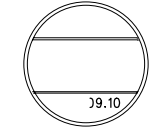
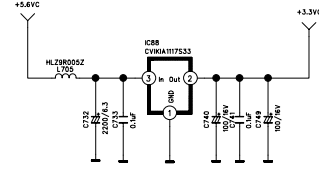
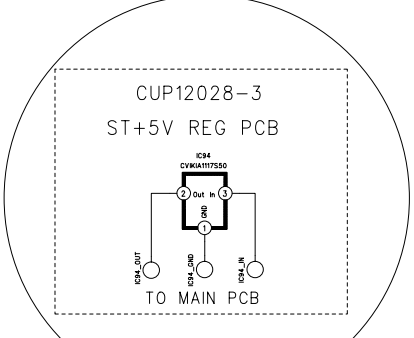
TO FRONT PCB

TO XM& IPOD PCB

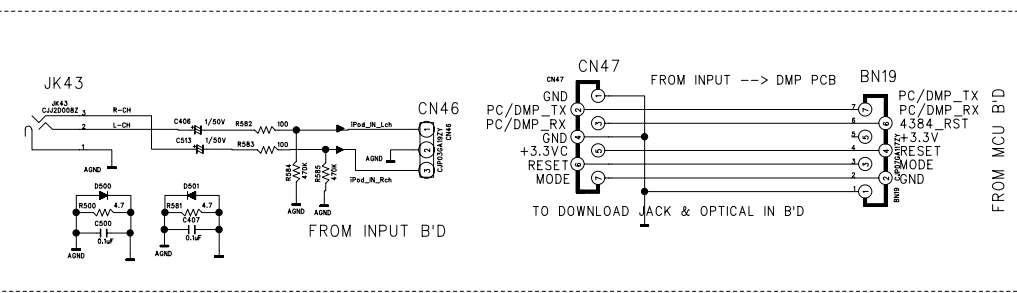


* MODEL OPTION

MODEL	OP_A(PIN48)	OP_B(PIN98)	OP_C(PIN52)
AVR155	HIGH(R792)	LOW(R791)	LOW(R712)
AVR154	HIGH(R792)	HIGH(R790)	LOW(R712)
AVR155/230	LOW(R793)	LOW(R791)	HIGH(R711)
AVR154/230	LOW(R793)	HIGH(R790)	HIGH(R711)

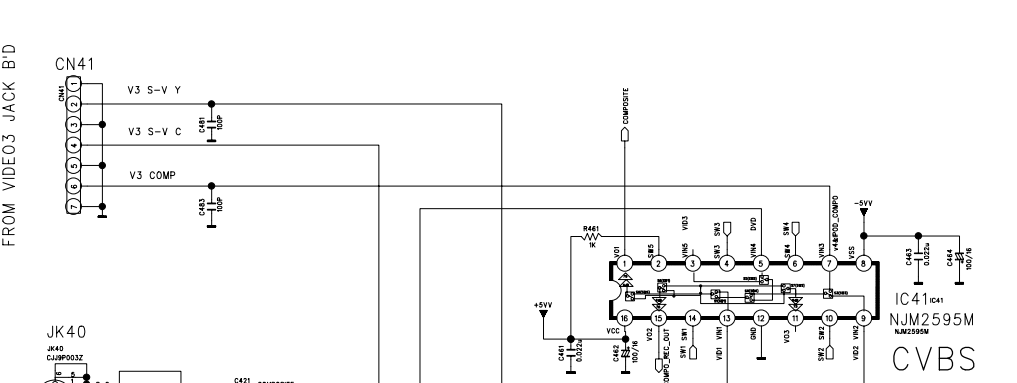


REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR154/155		
DESIGN	CHECK	APPROVE	DRAWING NO
C.B.LEE	W.Y.YANG	G.S.WEY	2028SCLZ
07.05.28			(CPU)

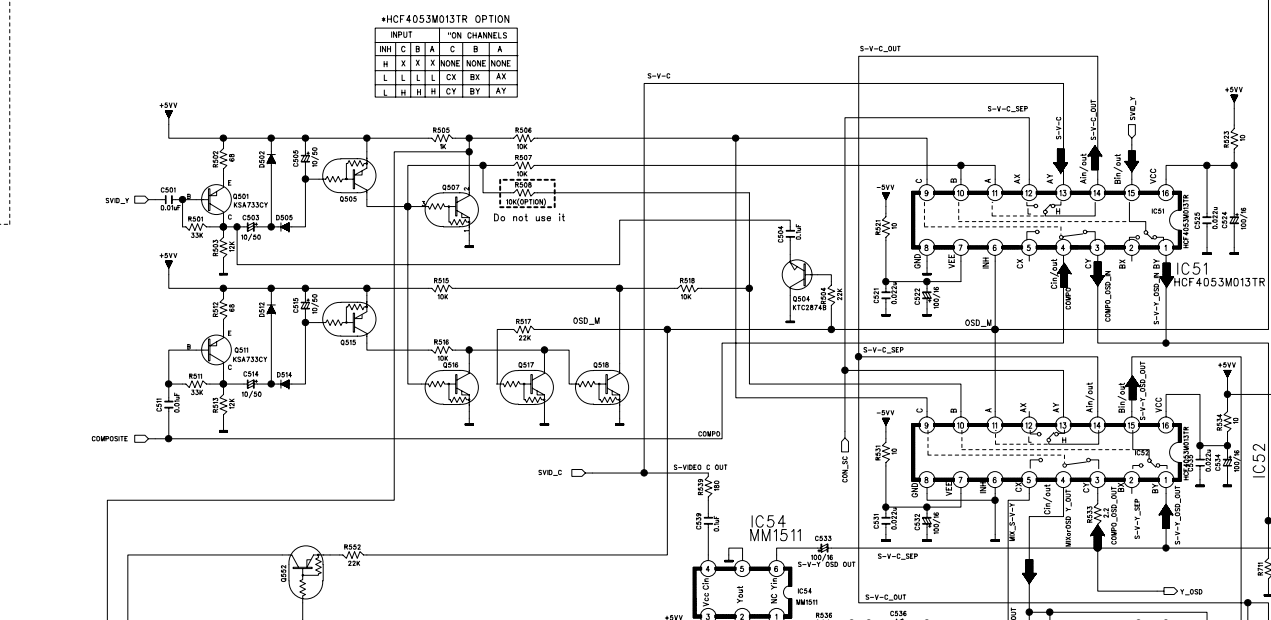
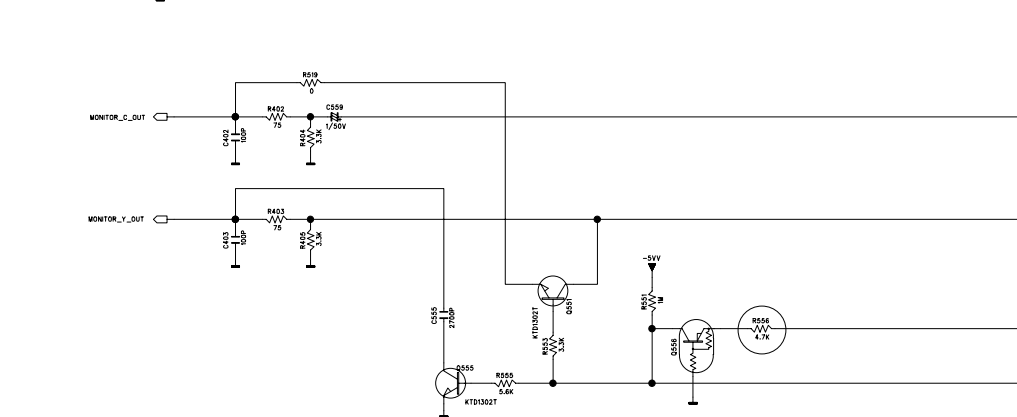
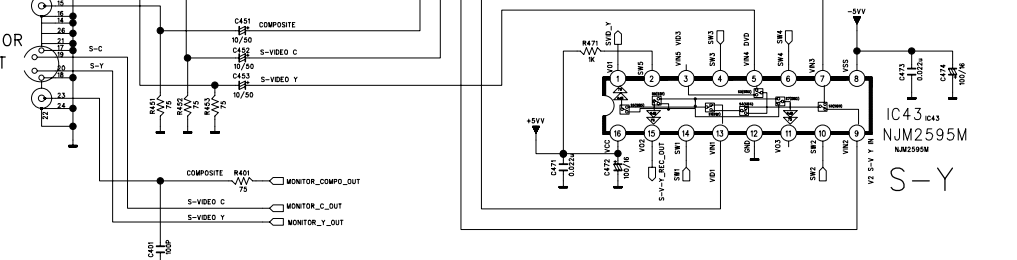
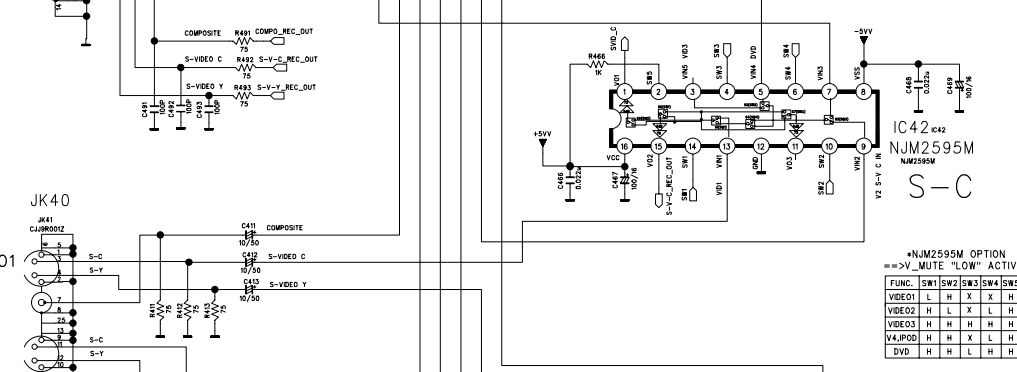


AVR154 CUP12030Z

harman/kardon

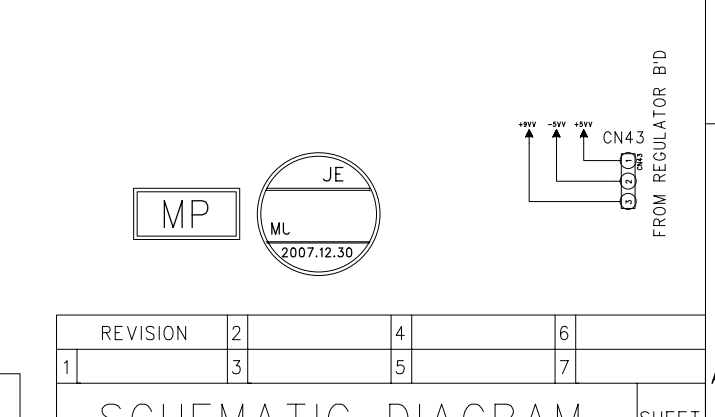
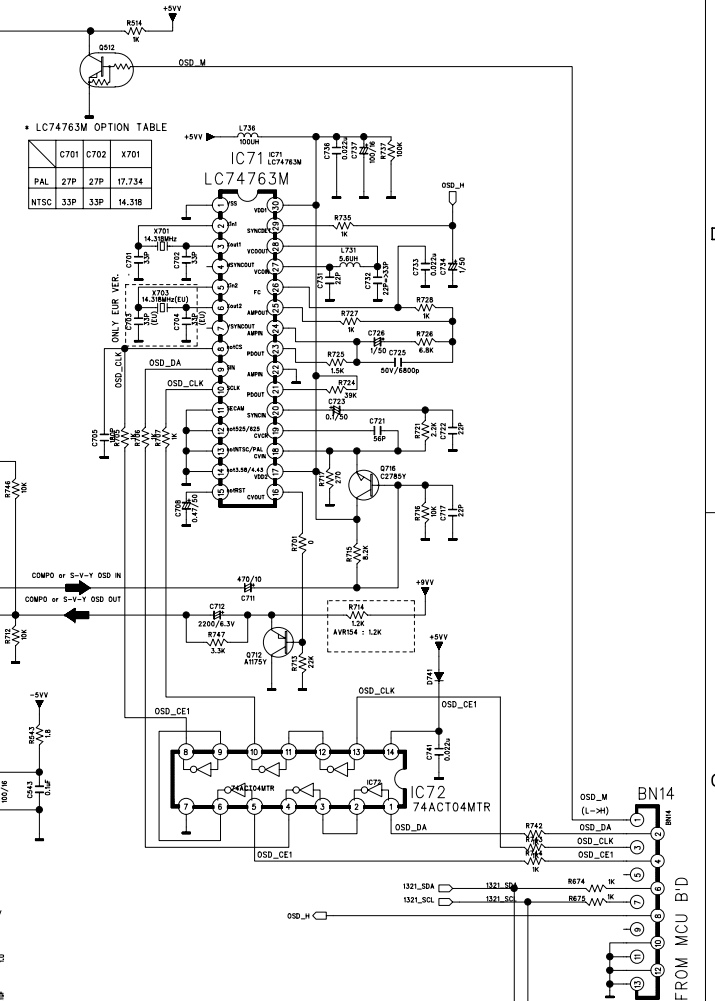
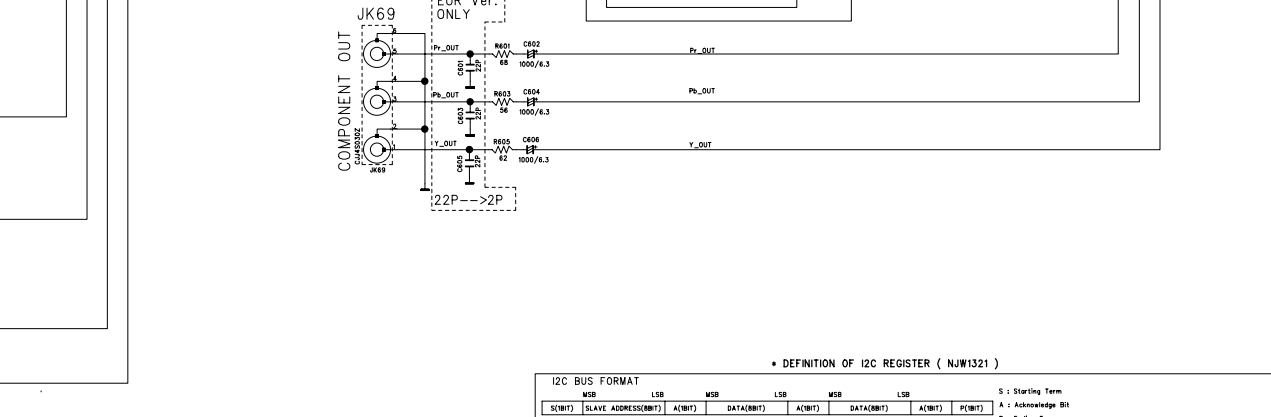
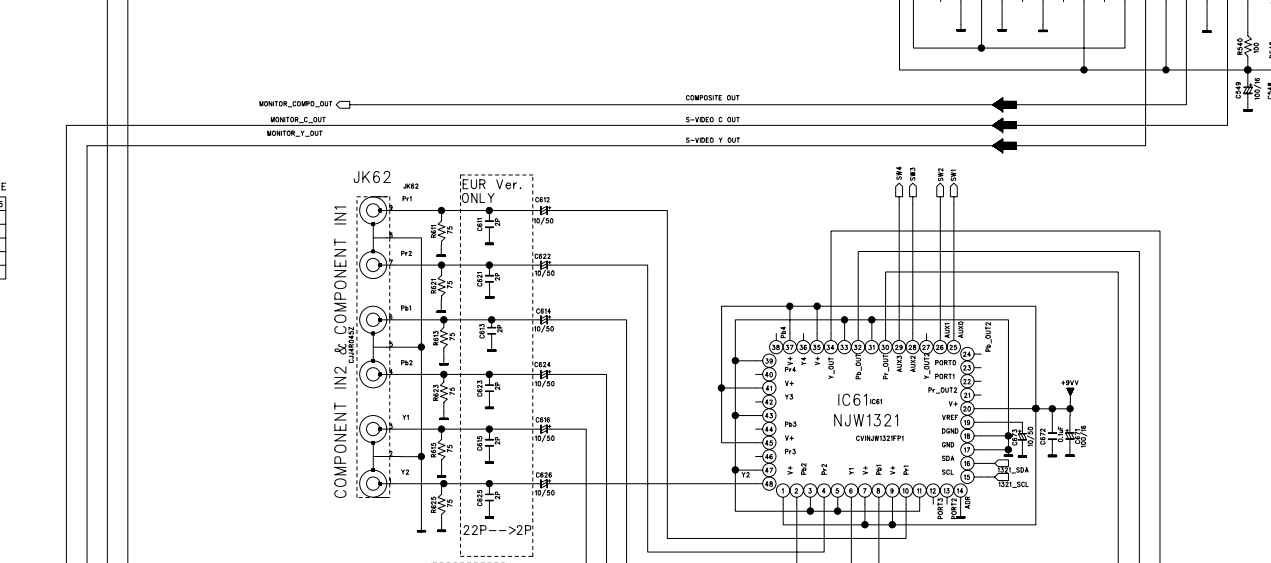


JK43(= JK42 + JK43 + JK49)	AVR-145	CJ9R001Z
JK43(= JK42 + JK49)	AVR-245	CJ9P003Z
JK40(= JK40 + JK41 + JK45)	AVR-145 & AVR-245	CJ9R001Z



HCF4053M013TR Connection Diagram

INPUT	"ON" CHANNELS		
INH	C	B	A
H	X	X	X
L	L	L	L
L	L	L	H
L	L	L	CX
L	L	L	CY
L	L	L	BY
L	L	L	AX
L	L	L	AY
L	L	L	CY
L	L	L	BY
L	L	L	AX
L	L	L	AY



DEFINITION OF I2C REGISTER (NJW1321)

I2C BUS FORMAT

MSB	LSB	MSB	LSB	MSB	LSB	MSB	LSB
(S)BIT	(S)lave Address	(M)BIT	DATA	(M)BIT	DATA	(M)BIT	(R)BIT

SLAVE ADDRESS

MSB	Slave Address	(M)BIT	MSB	Hex	R/NOT W	Set the Write Mode or Read Mode.
1	0	0	0	0	0	ADR

CONTROL REGISTER TABLE

NO.	D7	D6	D5	D4	D3	D2	D1	D0
DATA 1	PS1	PS2	AUX1	OUT1	AUX2	OUT2		
DATA 2	AUX0	AUX1	AUX2	AUX3				

<READ MODE>

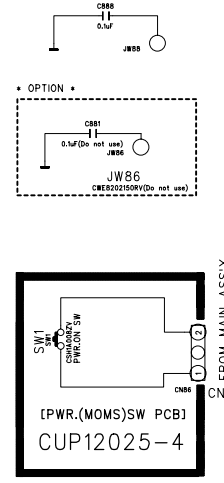
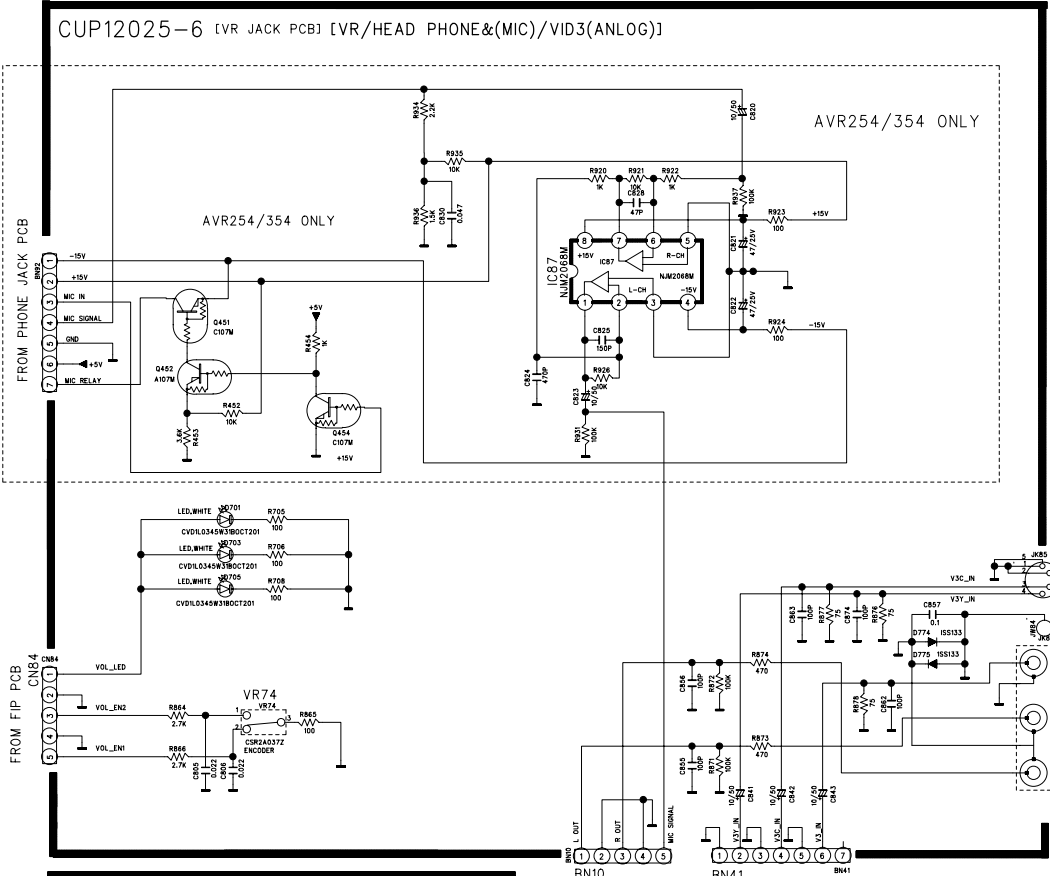
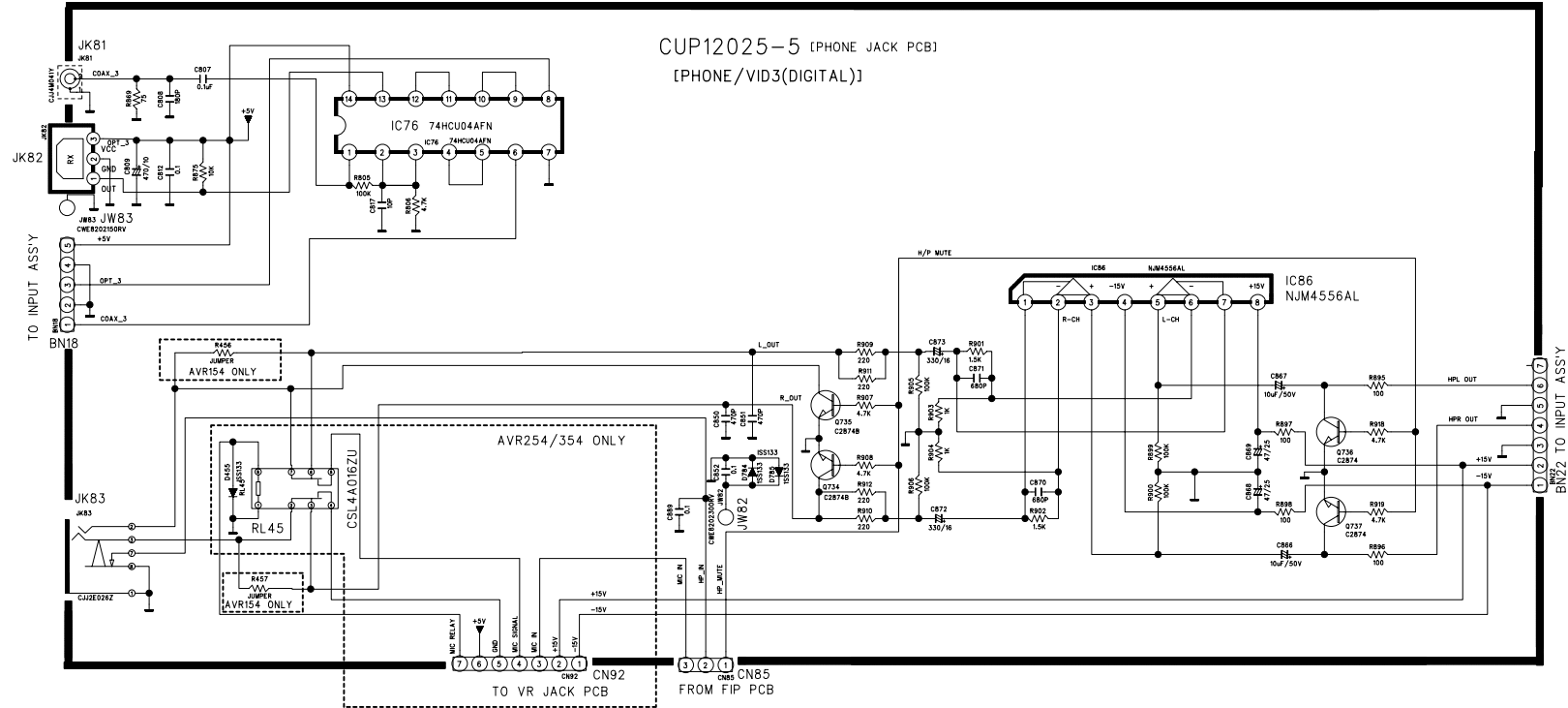
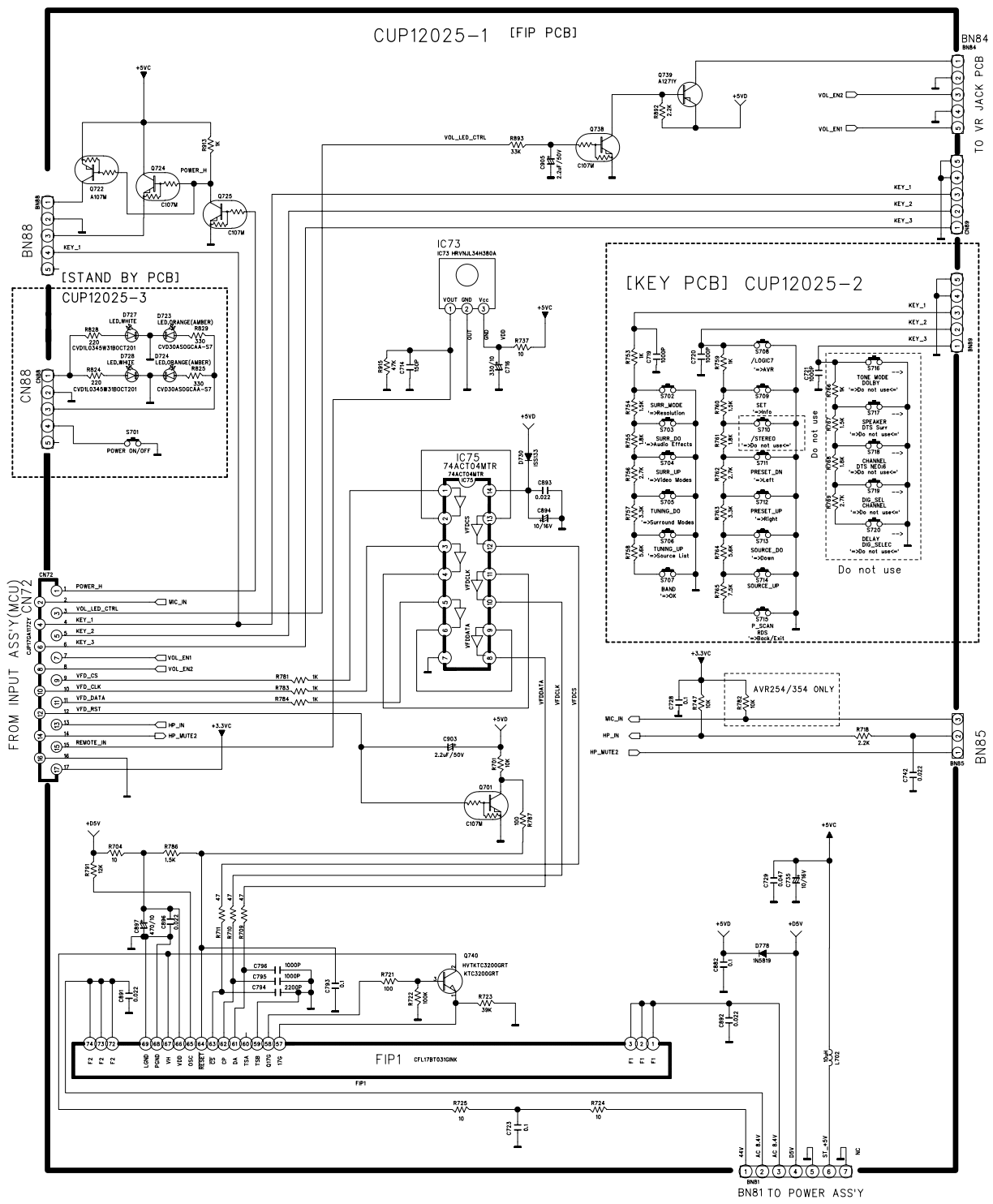
NO.	D7	D6	D5	D4	D3	D2	D1	D0
DATA	PORT0	PORT1	PORT2	PORT3	PORT4	PORT5	PORT6	PORT7

REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM SHEET			
MODEL	AVR154, AVR155/230		
DESIGN	CHECK	APPROVE	DRAWING NO
S.H.Y	W.Y.Y	K.S.W	2030SCPZ
07.12.30	07.12.30	07.12.30	(VIDEO)

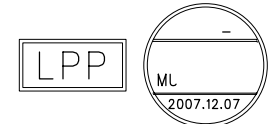
AVR154

harman/kardon

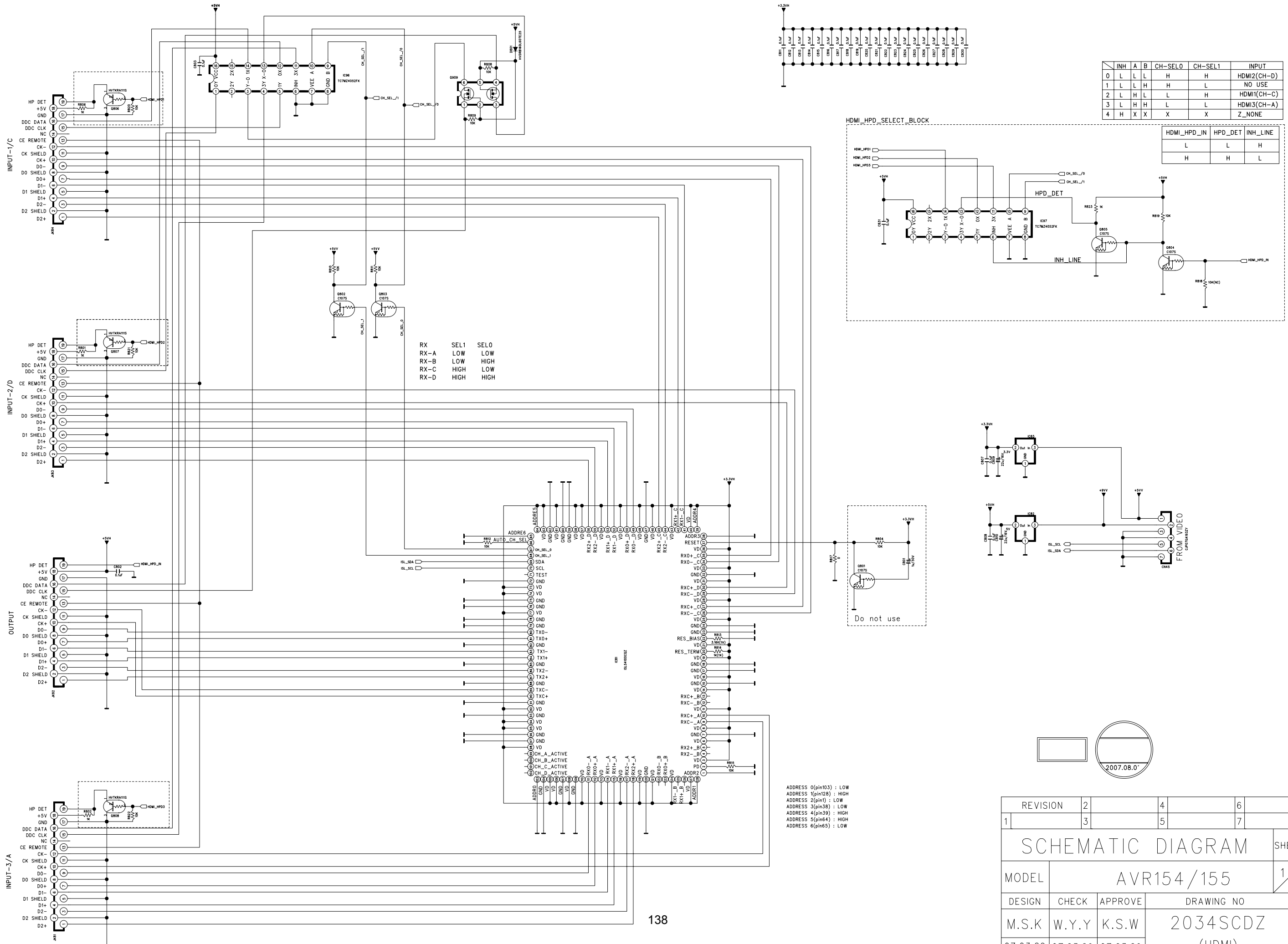
CUP12025Z



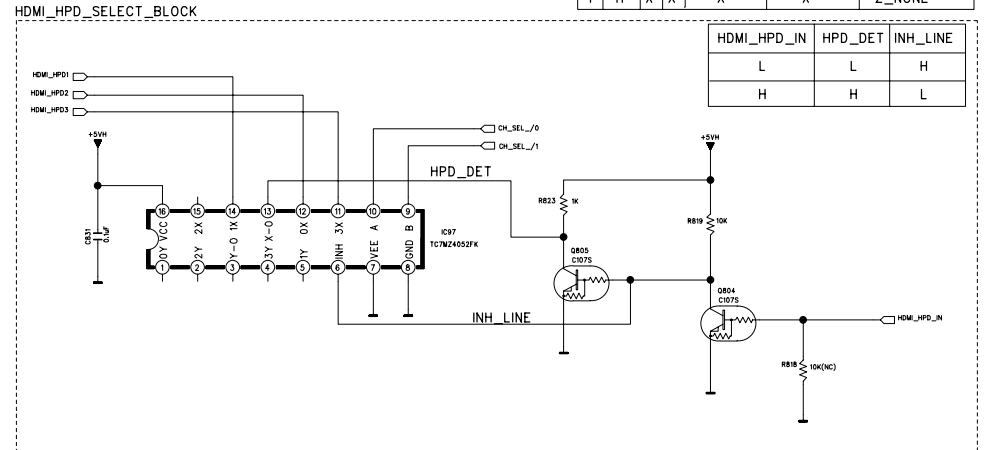
REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR154/254/354		
DESIGN	CHECK	APPROVE	DRAWING NO
S.H.YANG	W.Y.YANG	G.S.WEY	2025SCDZ
07.12.07	07.12.07	07.12.07	(FRONT)



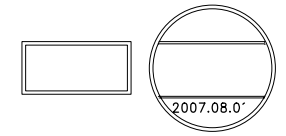
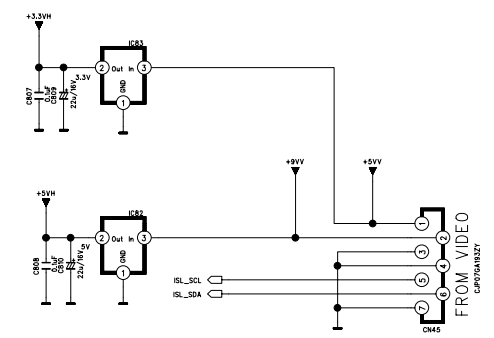
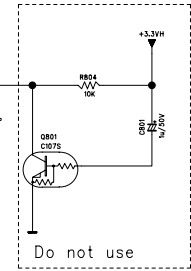
	A	B	CH-SELO	CH-SEL1	INPUT
0	L	L	H	H	HDMI2(CH-D)
1	L	H	H	L	NO USE
2	H	L	L	H	HDMI1(CH-C)
3	H	H	L	L	HDMI3(CH-A)



	INH	A	B	CH-SELO	CH-SEL1	INPUT
0	L	L	L	H	H	HDMI2(CH-D)
1	L	L	H	H	L	NO USE
2	L	H	L	L	H	HDMI1(CH-C)
3	L	H	H	L	L	HDMI3(CH-A)
4	H	X	X	X	X	Z_NONE



RX	SEL1	SELO
RX-A	LOW	LOW
RX-B	LOW	HIGH
RX-C	HIGH	LOW
RX-D	HIGH	HIGH



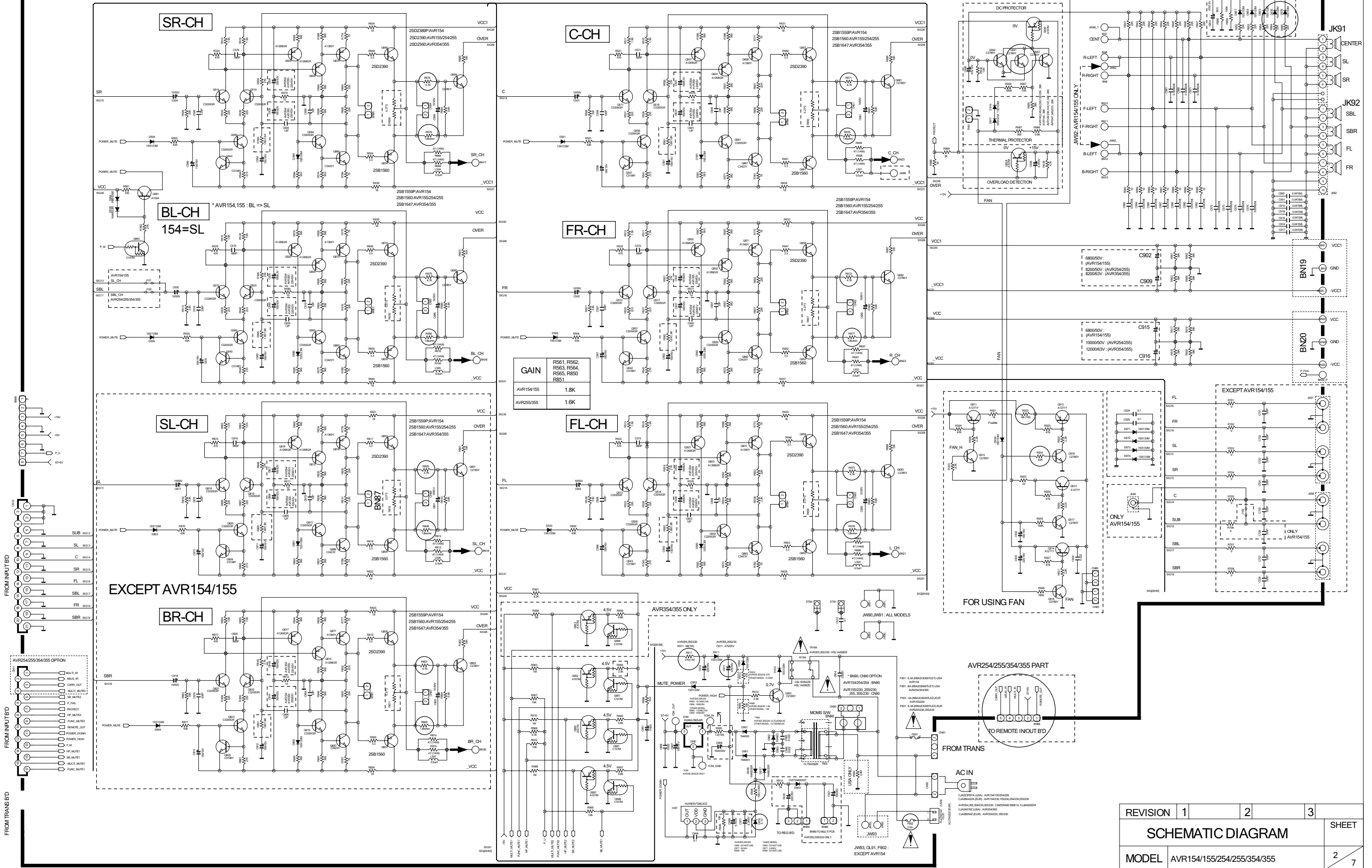
ADDRESS 0(pin103) : LOW
 ADDRESS 1(pin128) : HIGH
 ADDRESS 2(pin1) : LOW
 ADDRESS 3(pin38) : LOW
 ADDRESS 4(pin39) : HIGH
 ADDRESS 5(pin64) : HIGH
 ADDRESS 6(pin65) : LOW

REVISION	2	4	6
1	3	5	7

A

SCHEMATIC DIAGRAM			SHEET
MODEL	AVR154/155		1/2
DESIGN	CHECK	APPROVE	DRAWING NO
M.S.K	W.Y.Y	K.S.W	2034SCDZ
07.03.29	07.03.29	07.03.29	(HDMI)

1/1



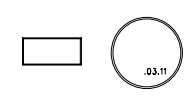
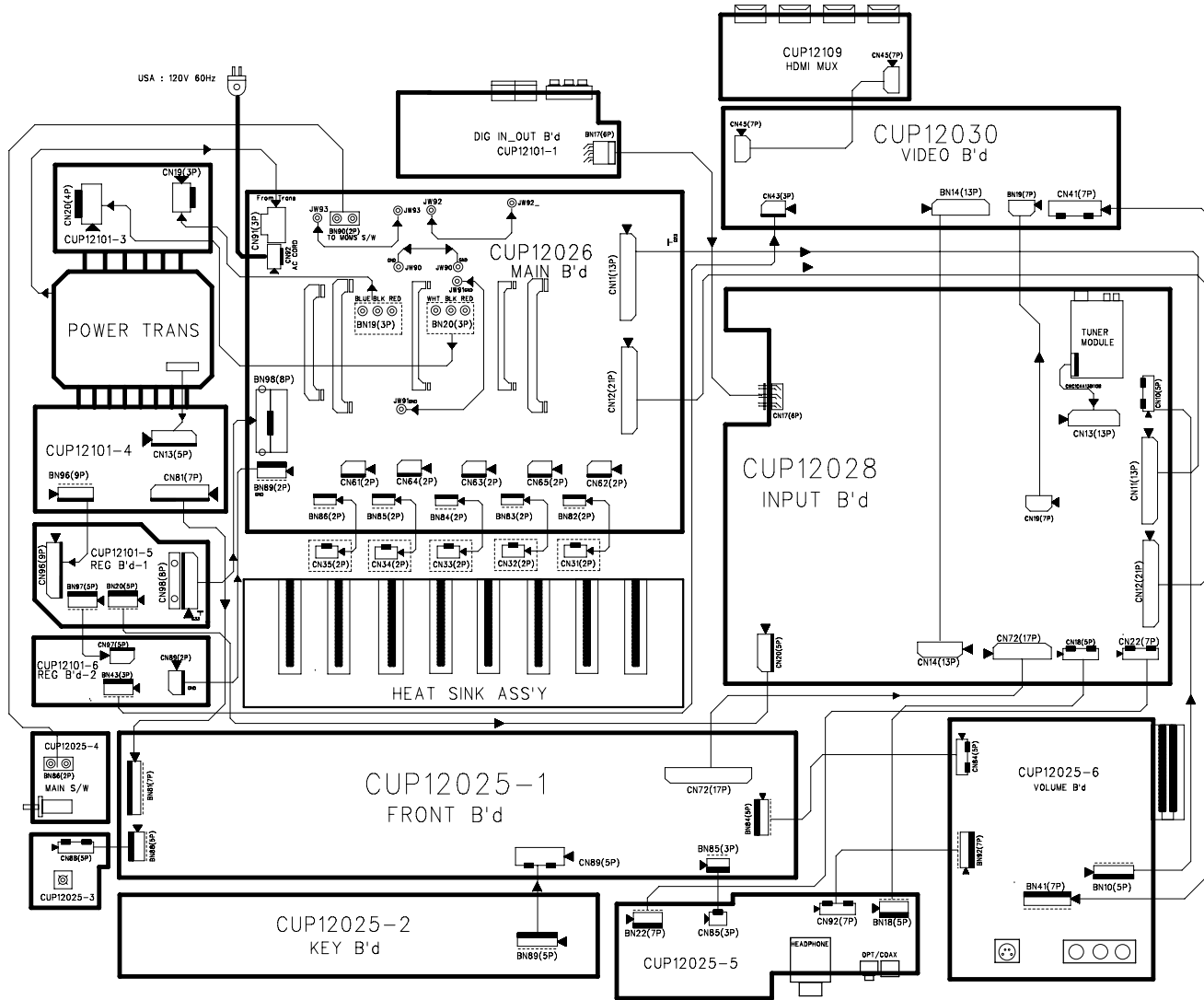
GAIN	R561, R562, R563, R564, R565, R560	1.8K
	AVR154/155	1.8K
	AVR255/355	1.6K

REVISION	1	2	3	SHEET
MODEL	AVR154/155/254/255/354/355			
DESIGN	C.B.LEE	W.Y.YANG	G.S.WEY	DRAWING NO
				2026SCLZ (MAIN)
07.08.23				1 / 1

IMPORTANT SAFETY NOTICE:
 IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.
 * THE UNIT OF RESISTANCE IS OHM.
 K=1000 OHM, M=10000 OHM.
 ** THE UNIT OF CAPACITANCE IS MICROFARAD (UF)
 UF=10⁻⁶ F
 *** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WHILE THE
 IMPROVEMENT OF PERFORMANCE



AVR154 WIRING DIAGRAM



REVISION	2	4	6
	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR154		
DESIGN	CHECK	APPROVE	DRAWING NO
J.T.B	W.Y.Y	K.S.W	WIRING DIAGRAM
08.03.11	08.03.11	08.03.11	1190SCDZ