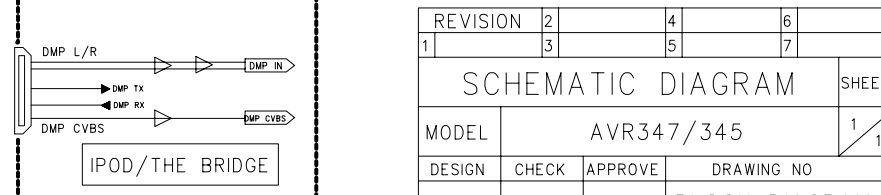
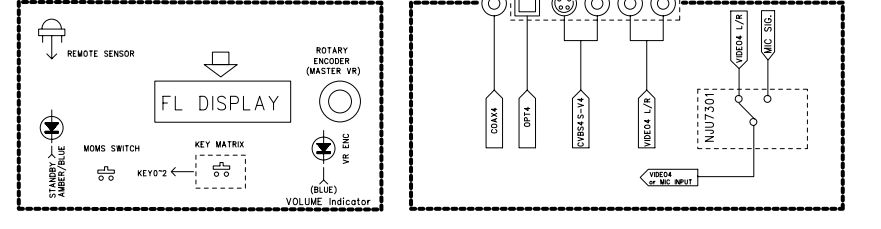
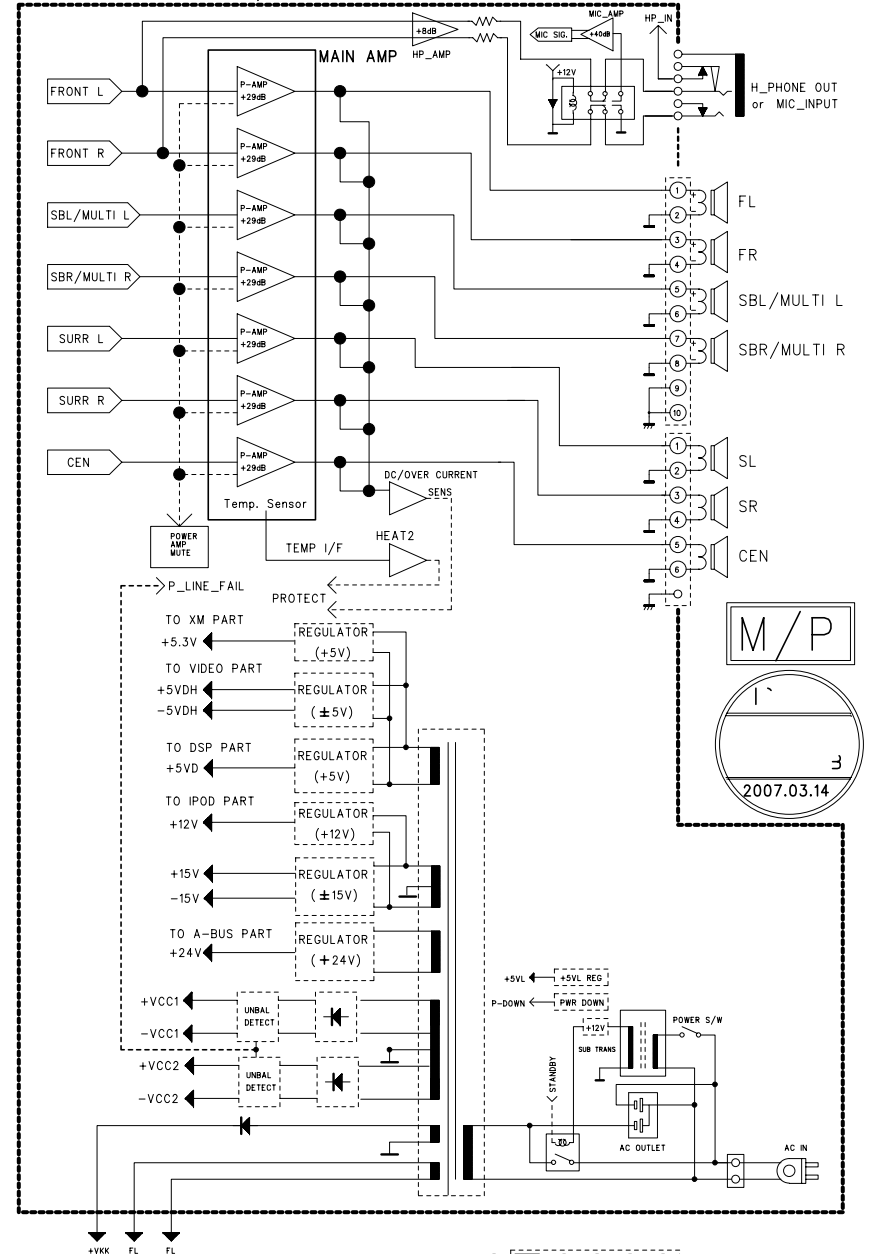
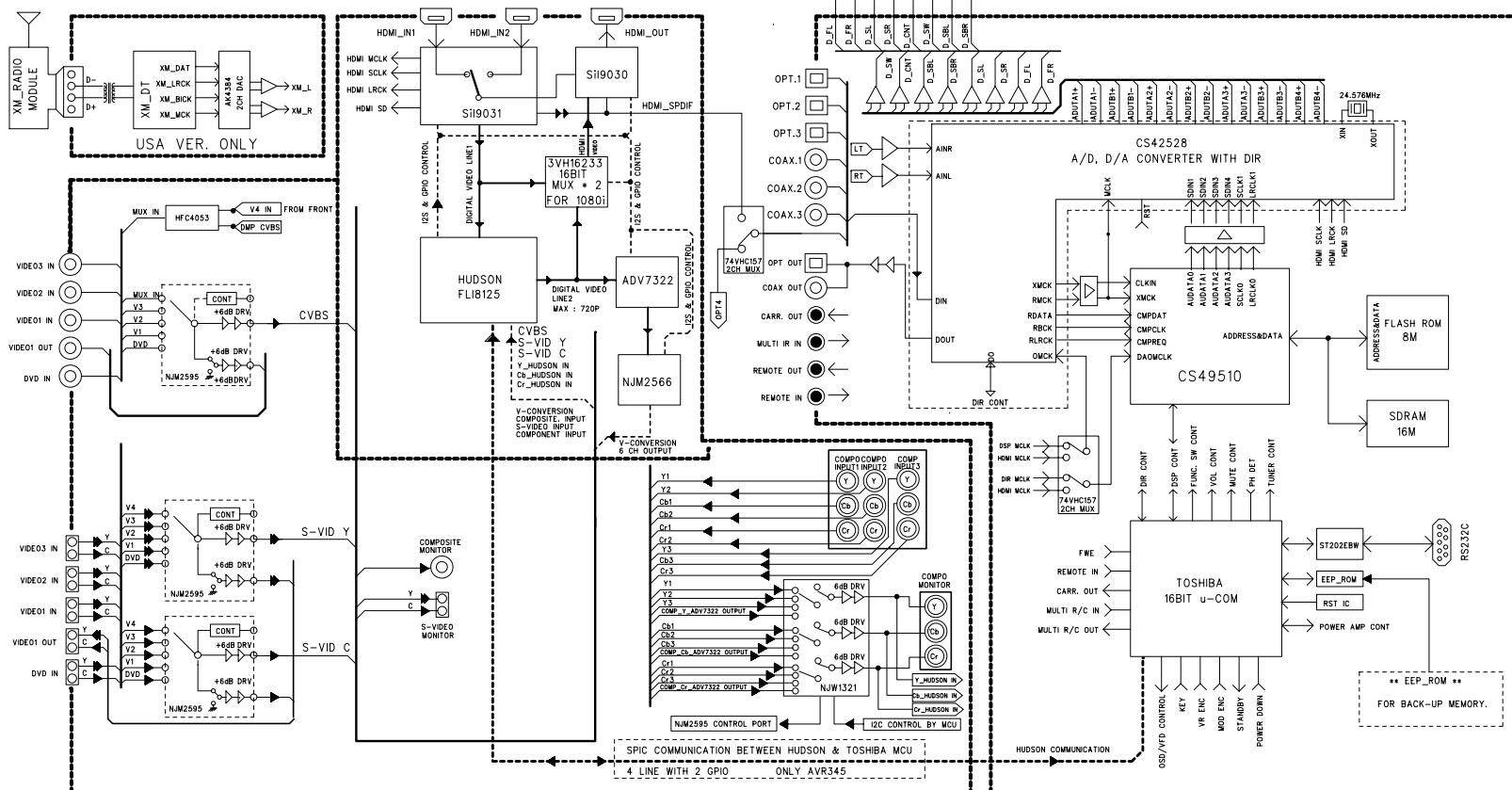
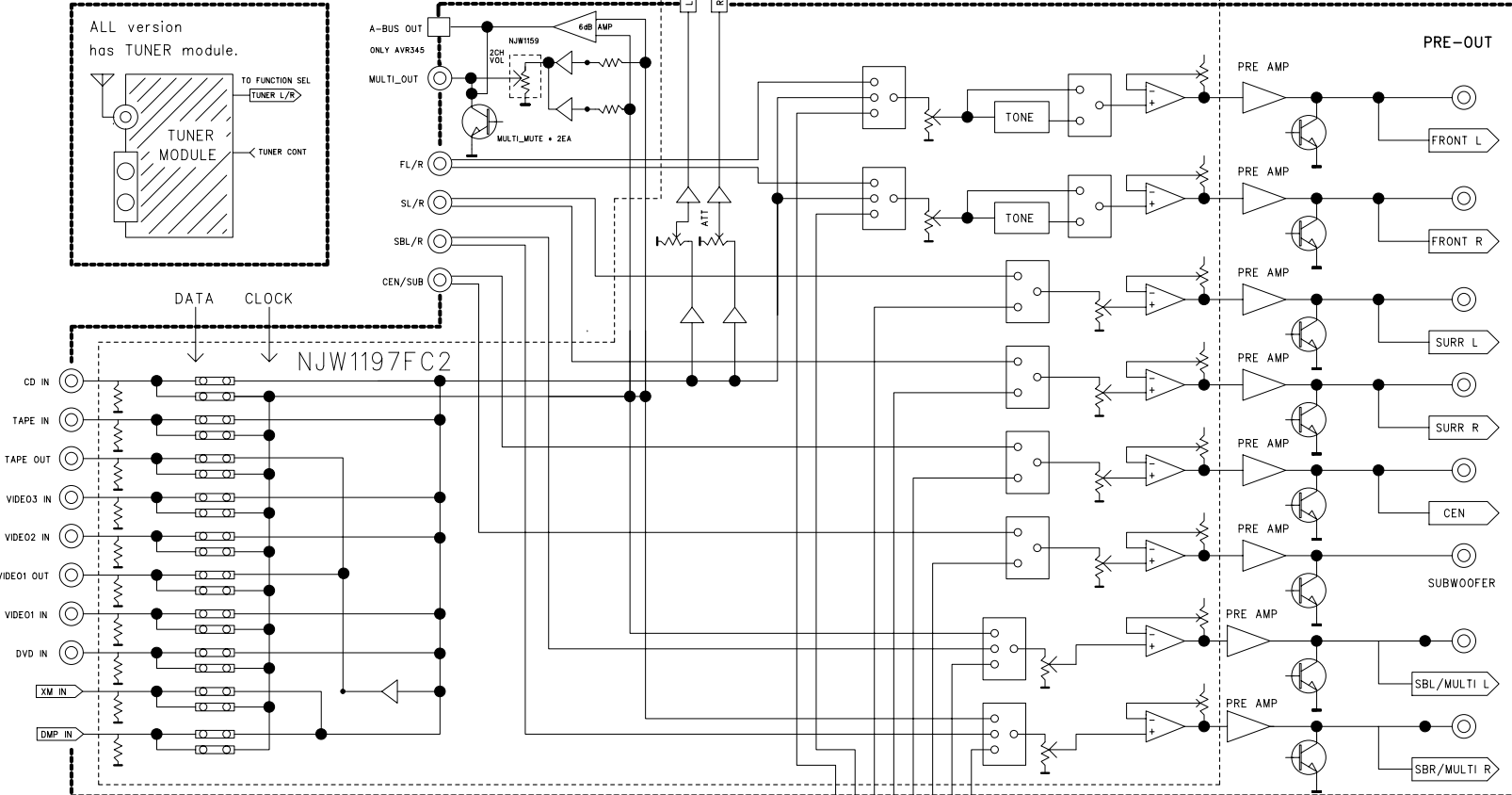
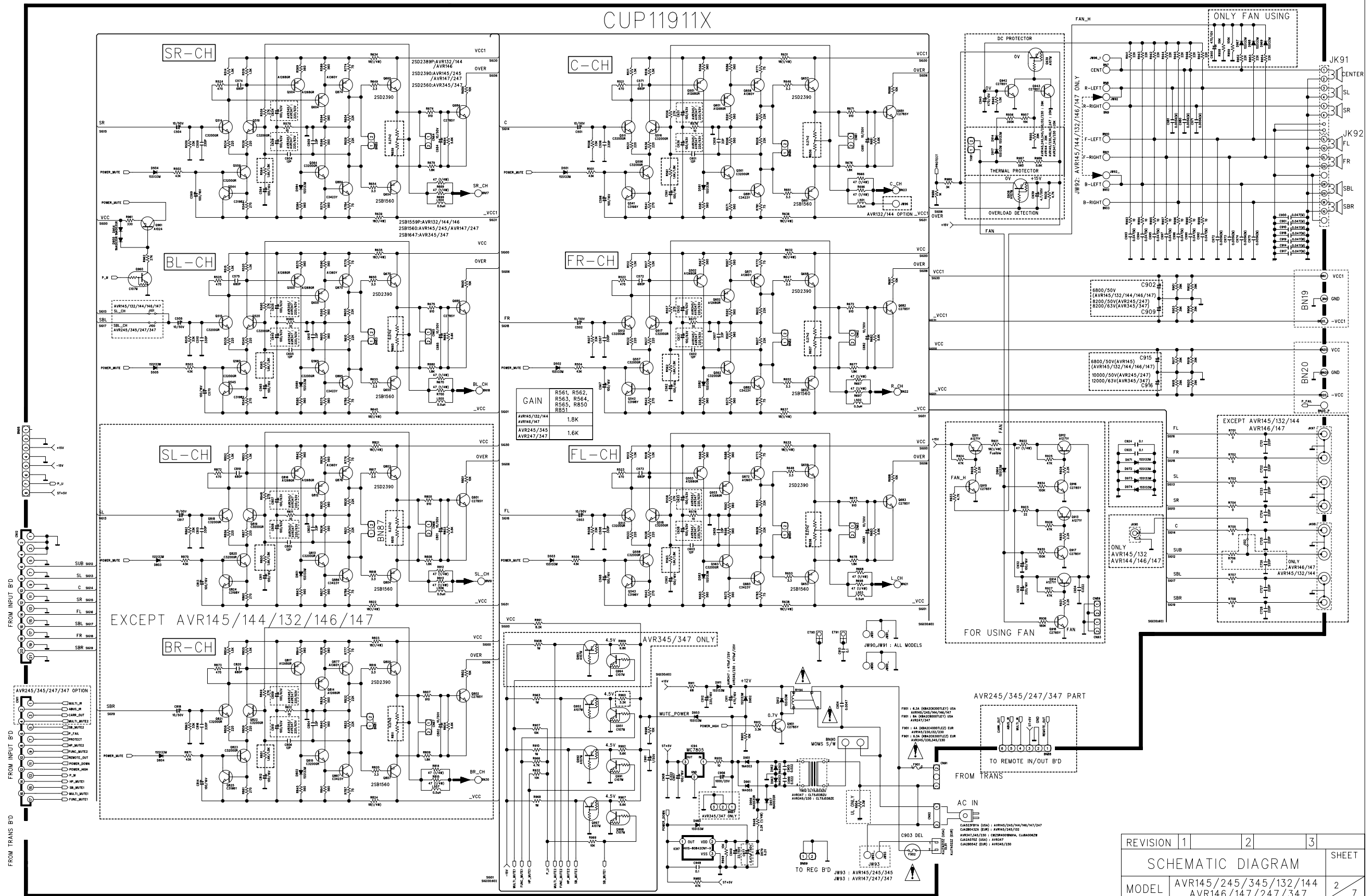


AVR347/345 BLOCK DIAGRAM

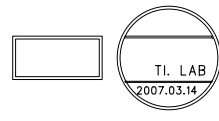


REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM SHEET			
MODEL	AVR347/345		
DESIGN	CHECK	APPROVE	DRAWING NO
M.S.Kim	W.Y.Yang	H.W.Lee	BLOCK DIAGRAM
07.03.14	07.03.14	07.03.14	1190BCDZ

CUP11911X



•• 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=1000 KOHM.  
 •• THE UNIT OF CAPACITANCE IS MICROFARAD (µF)  
 µF = 10<sup>-6</sup> F  
 •• THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WHILE THE  
 IMPROVEMENT OF PERFORMANCE

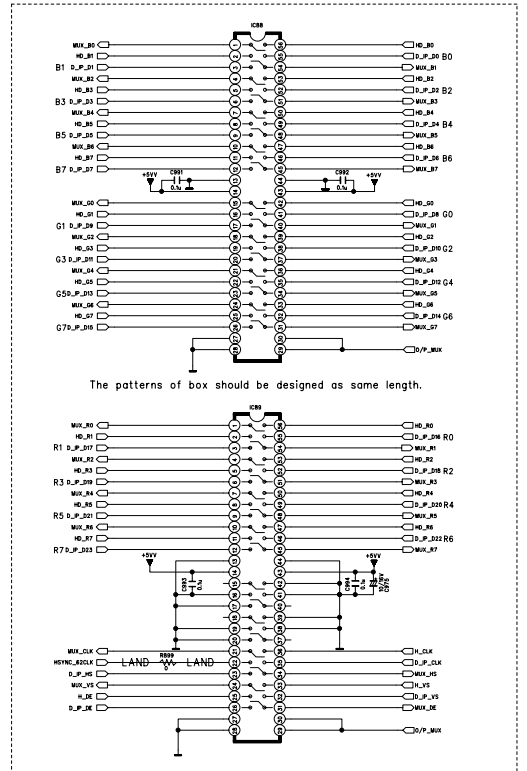
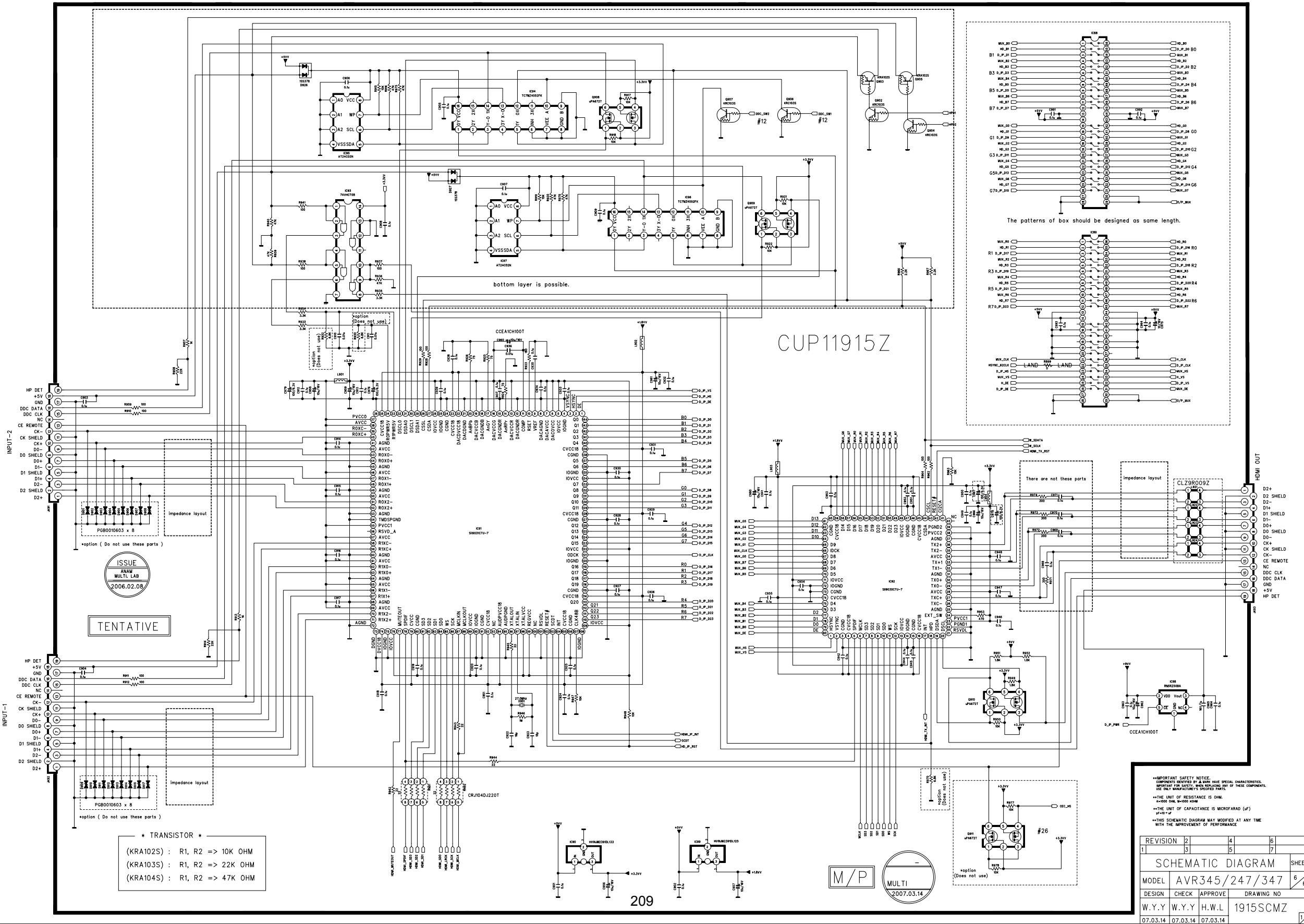


REVISION	1	2	3	SHEET
SCHEMATIC DIAGRAM				
MODEL	AVR145/245/345/132/144 AVR146/147/247/347			2 7
DESIGN	CHECK	APPROVE	DRAWING NO	
C.B.L	W.Y.Y	H.W.L	1911SCMX (MAIN)	
07.03.14	07.03.14	07.03.14		

6 5 4 3 2 1

D  
C  
B  
A

D  
C  
B  
A



TENTATIVE

\* TRANSISTOR \*

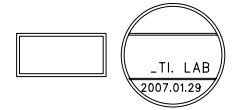
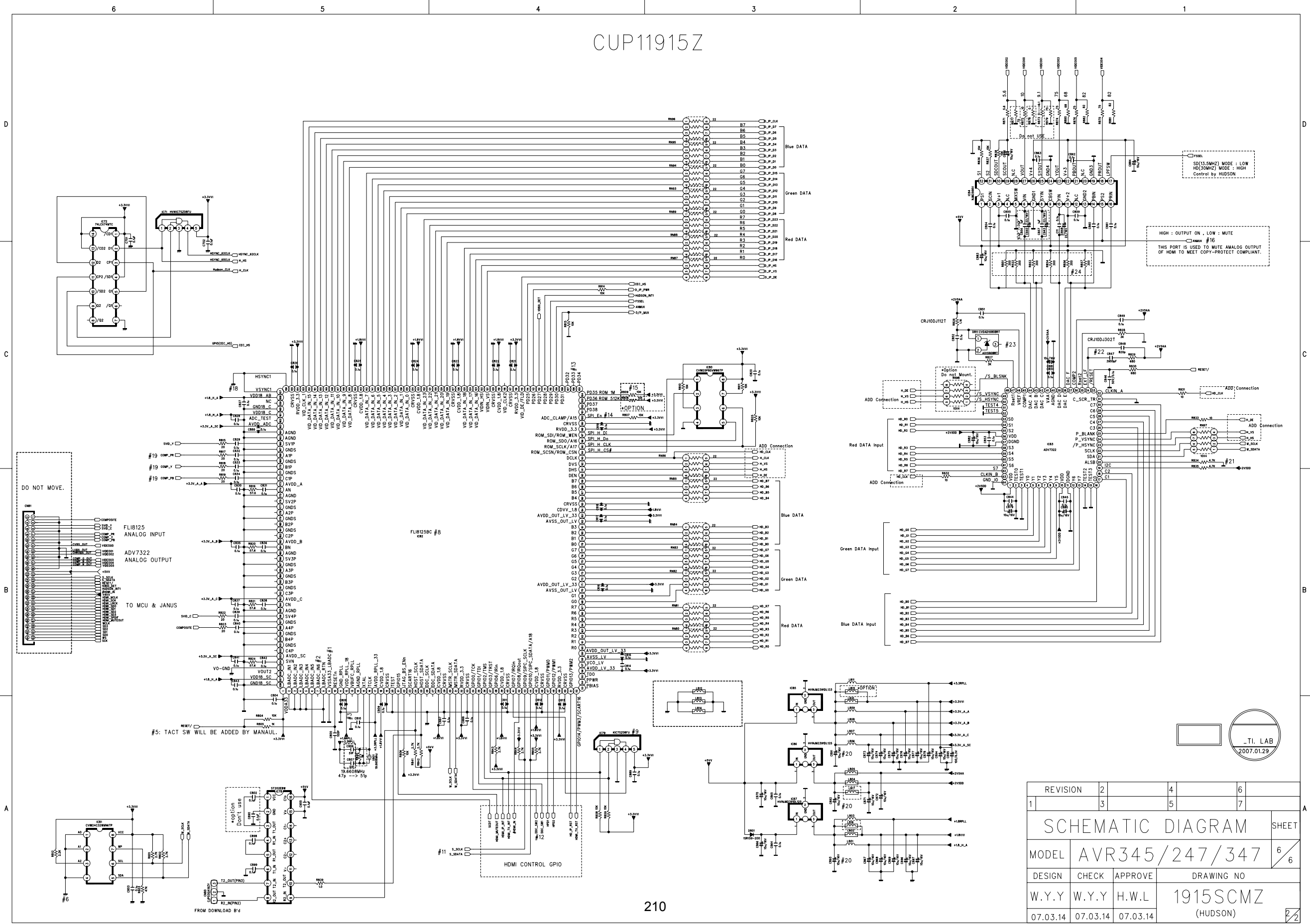
(KRA102S) : R1, R2 => 10K OHM  
 (KRA103S) : R1, R2 => 22K OHM  
 (KRA104S) : R1, R2 => 47K OHM

\*\*\*IMPORTANT SAFETY NOTICE:  
 COMPONENTS SHOWN BY & MARK HAVE SPECIAL CHARACTERISTICS.  
 IMPORTANT FOR SAFETY: WHEN REPLACING ANY OF THESE COMPONENTS,  
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.  
 \*\*\*THE LIMIT OF RESISTANCE IS OHM.  
 \*\*\*THE LIMIT OF CAPACITANCE IS MICROFARAD (uF)  
 \*\*\*THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME  
 WITH THE IMPROVEMENT OF PERFORMANCE.

REVISION	2	4	6
	1	3	5
SCHEMATIC DIAGRAM SHEET			
MODEL	AVR345/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
W.Y.Y	W.Y.Y	H.W.L	1915SCMZ
07.03.14	07.03.14	07.03.14	



CUP11915Z



REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM SHEET			
MODEL	AVR345/247/347		
DESIGN	W.Y.Y	W.Y.Y	H.W.L
W.Y.Y	W.Y.Y	H.W.L	1915SCMZ (HUDSON)
7.07.14	07.03.14	07.03.14	

6

5

4

3

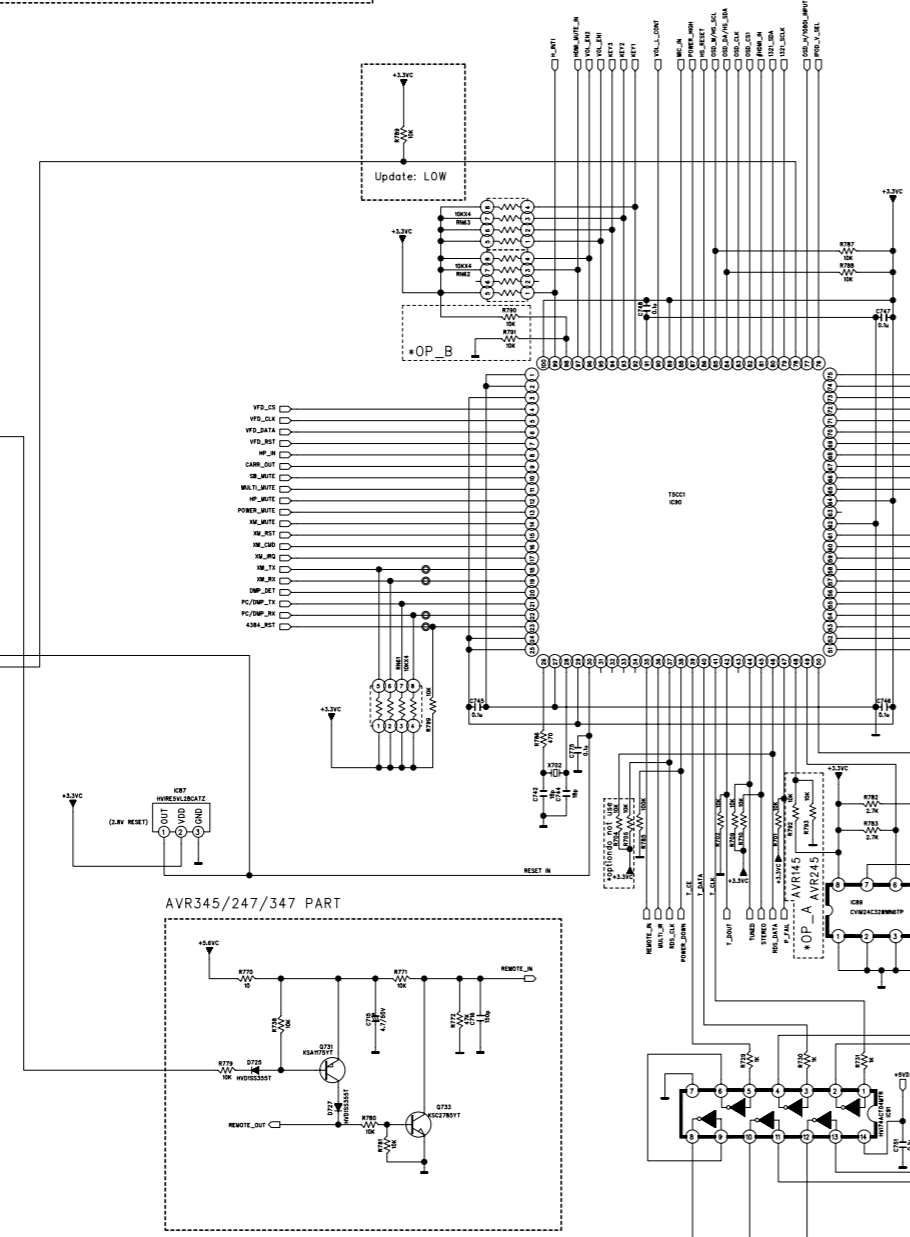
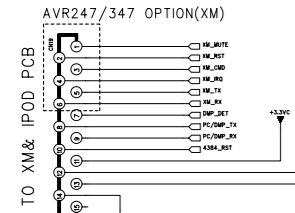
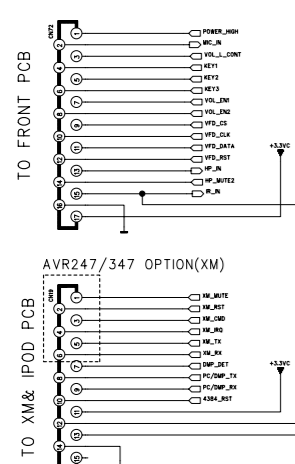
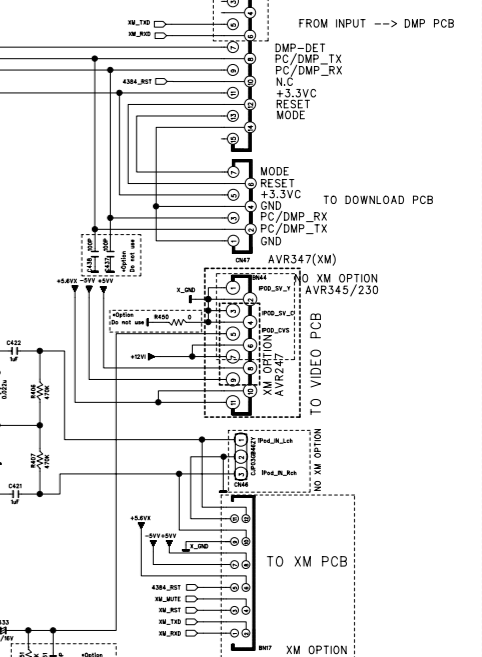
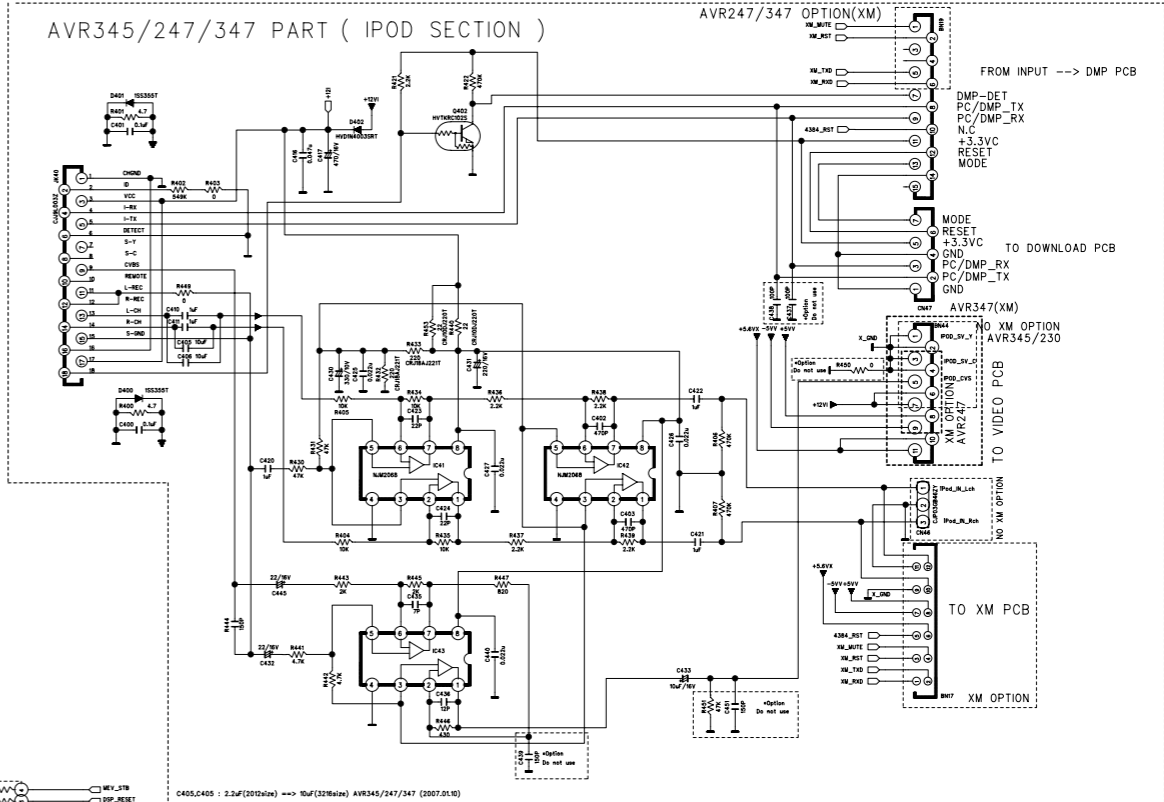
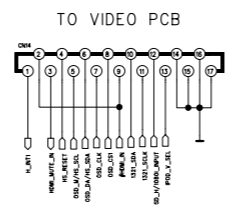
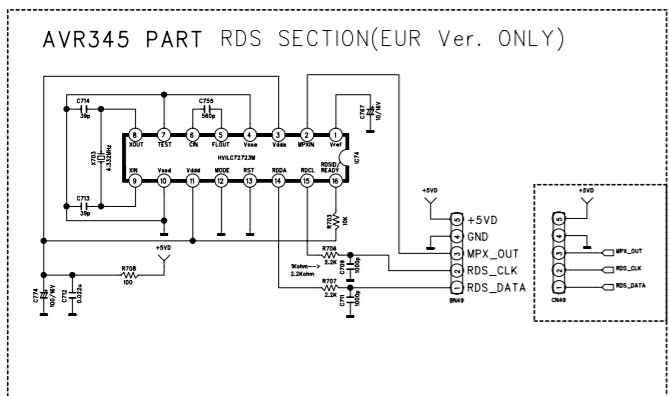
2

1

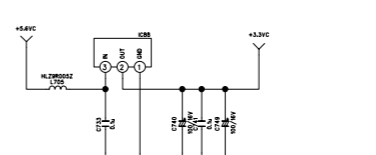
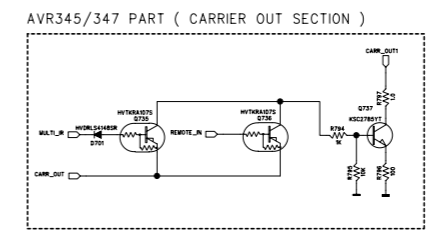
CUP11913Z

AVR345/247/347 PART ( IPOD SECTION )

AVR247/347 OPTION(XM)



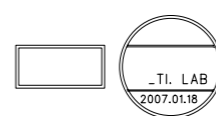
○: PULL\_UP  
GPIO : Input/Out Port(without pull\_up resistor)



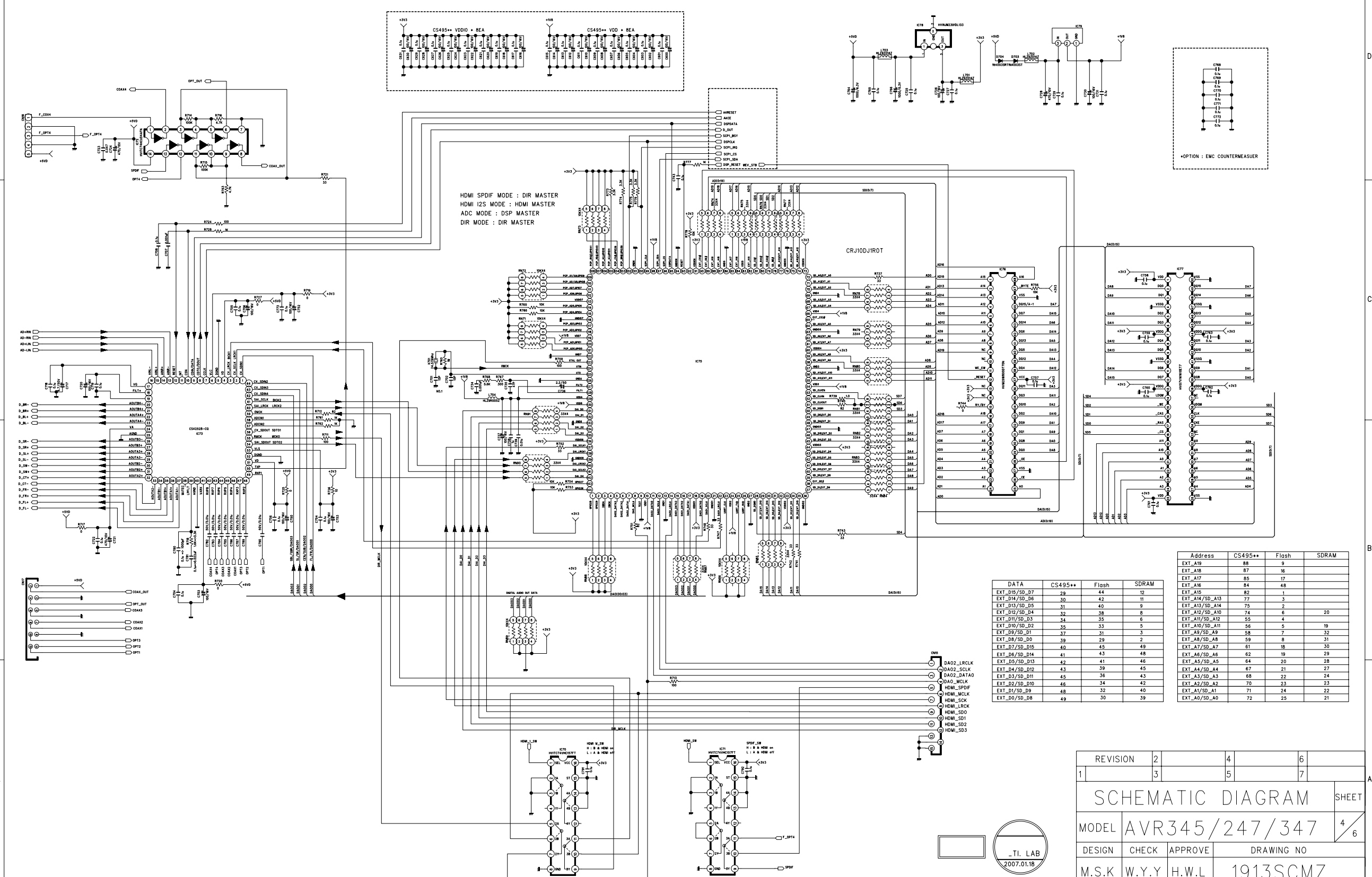
MODEL OPTION TABLE

MODEL	OP_A(PIN48)	OP_B(PIN98)	OP_C(PIN52)
AVR145, 147	HIGH(R792)	LOW(R791)	LOW(R712)
AVR245	LOW(R793)	LOW(R791)	LOW(R712)
NONE	OPEN	LOW(R791)	NOT OPTION
AVR132	LOW(R793)	HIGH(R790)	LOW(R712)
AVR144, 146	HIGH(R792)	HIGH(R790)	LOW(R712)
AVR145/230	HIGH(R792)	LOW(R791)	HIGH(R711)
AVR245/230	LOW(R793)	LOW(R791)	HIGH(R711)
AVR347	HIGH(R792)	LOW(R791)	NOT OPTION
AVR247	LOW(R793)	LOW(R791)	NOT OPTION
AVR345/230	HIGH(R792)	HIGH(R790)	NOT OPTION

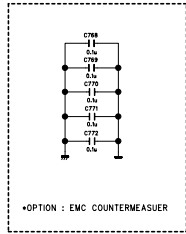
REVISION	2	4	6
	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR345/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
M.S.K	W.Y.Y	H.W.L	1913SCMZ
07.01.18	07.01.18	07.01.18	(CPU)



CUP11913Z



HDMI SPDIF MODE : DIR MASTER  
 HDMI I2S MODE : HDMI MASTER  
 ADC MODE : DSP MASTER  
 DIR MODE : DIR MASTER



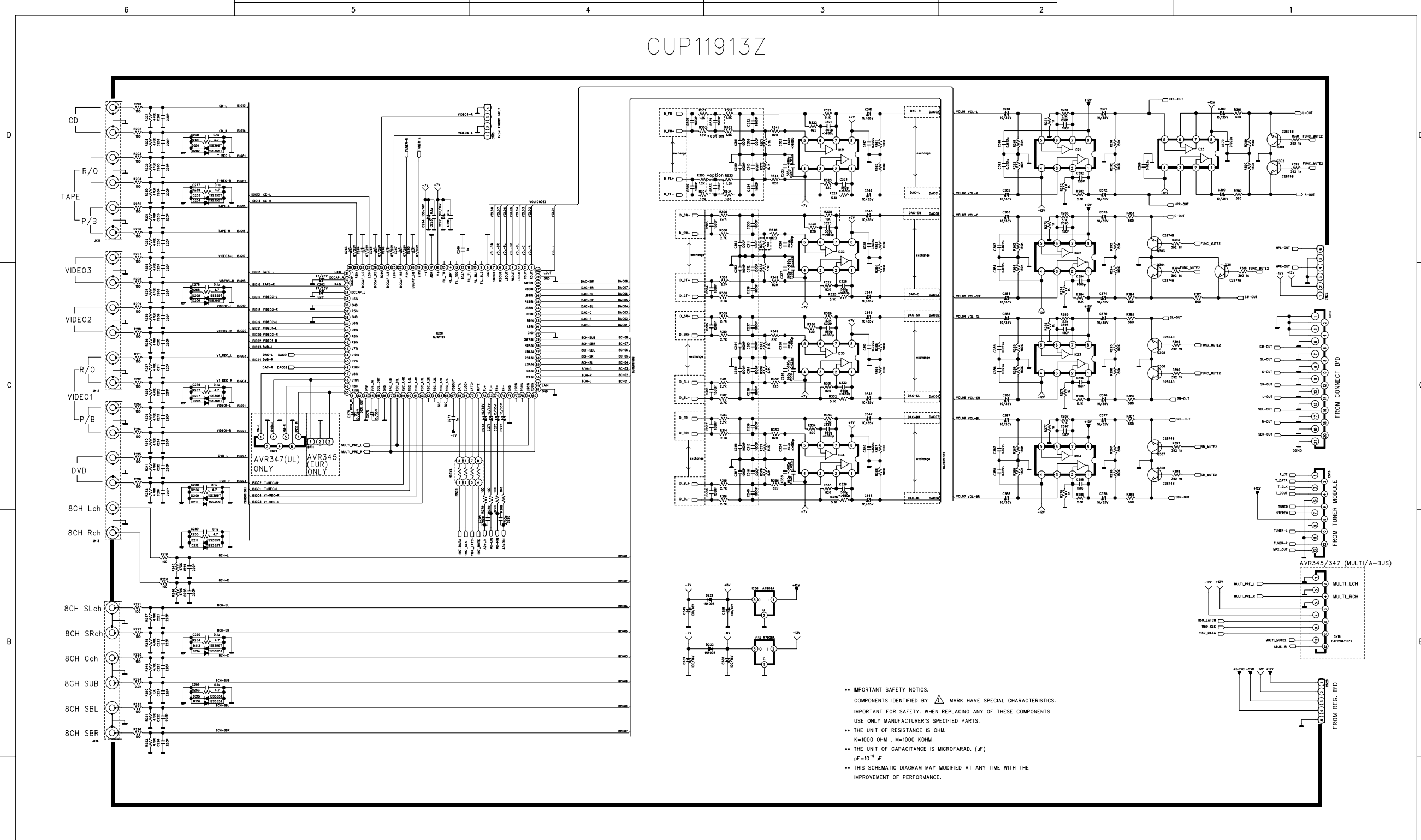
DATA	CS495**	Flash	SDRAM
EXT_D15/SD_D7	29	44	12
EXT_D14/SD_D6	30	42	11
EXT_D13/SD_D5	31	40	9
EXT_D12/SD_D4	32	38	8
EXT_D11/SD_D3	34	35	6
EXT_D10/SD_D2	35	33	5
EXT_D9/SD_D1	37	31	3
EXT_D8/SD_D0	39	29	2
EXT_D7/SD_D15	40	45	49
EXT_D6/SD_D14	41	43	48
EXT_D5/SD_D13	42	41	46
EXT_D4/SD_D12	43	39	45
EXT_D3/SD_D11	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	53	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	AVR345/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
M.S.K	W.Y.Y	H.W.L	1913SCMZ
07.01.18	07.01.18	07.01.18	(DSP)

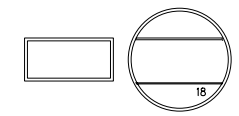


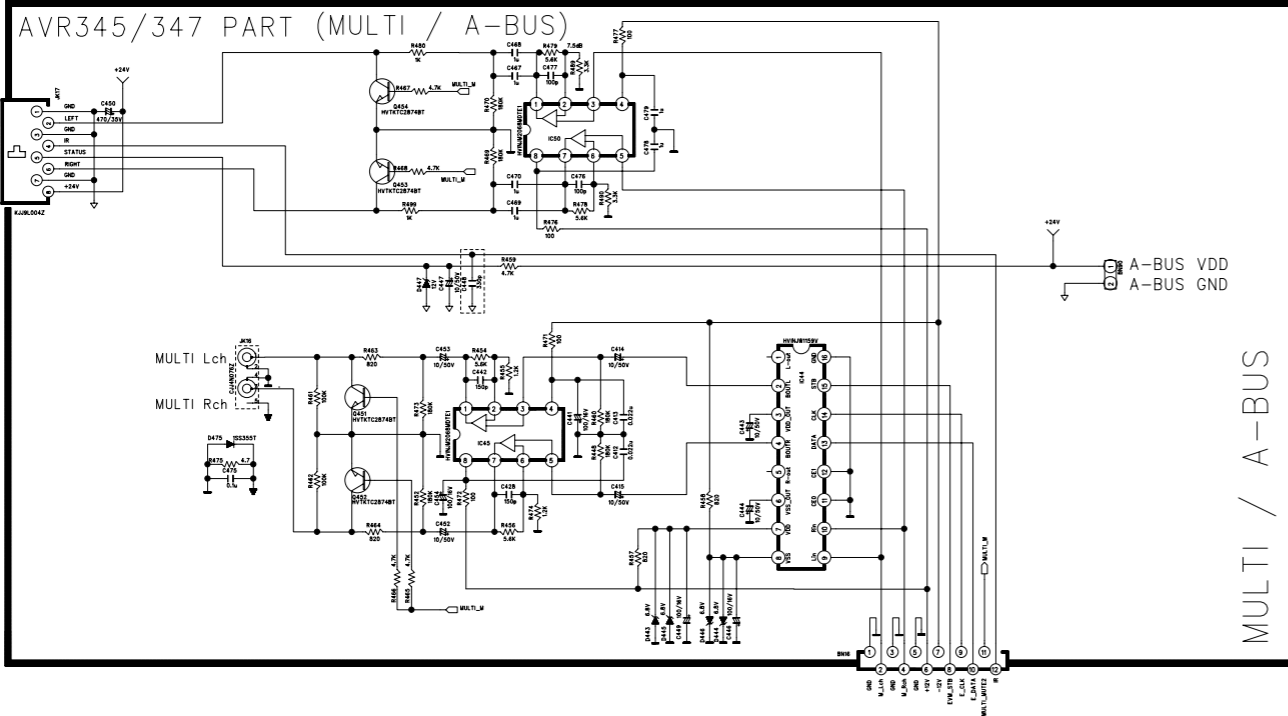
CUP11913Z



- IMPORTANT SAFETY NOTICES.  
 COMPONENTS IDENTIFIED BY  $\Delta$  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. ( $\mu$ F)  
 $pF=10^{-6} \mu$ F
  - THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE  
 IMPROVEMENT OF PERFORMANCE.

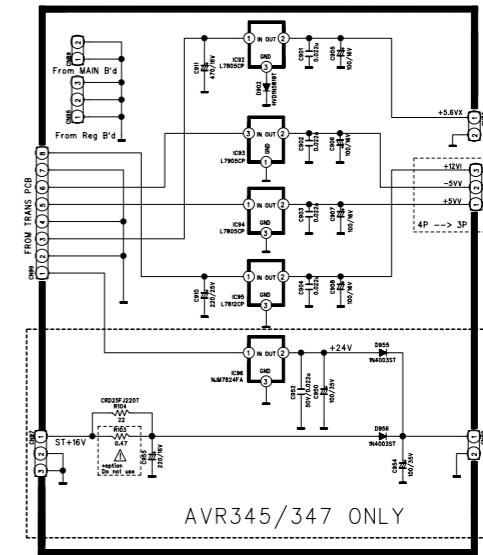
REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR345/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
M.S.K	W.Y.Y	H.W.L	1913SCMZ
07.01.18	07.01.18	07.01.18	(INPUT)



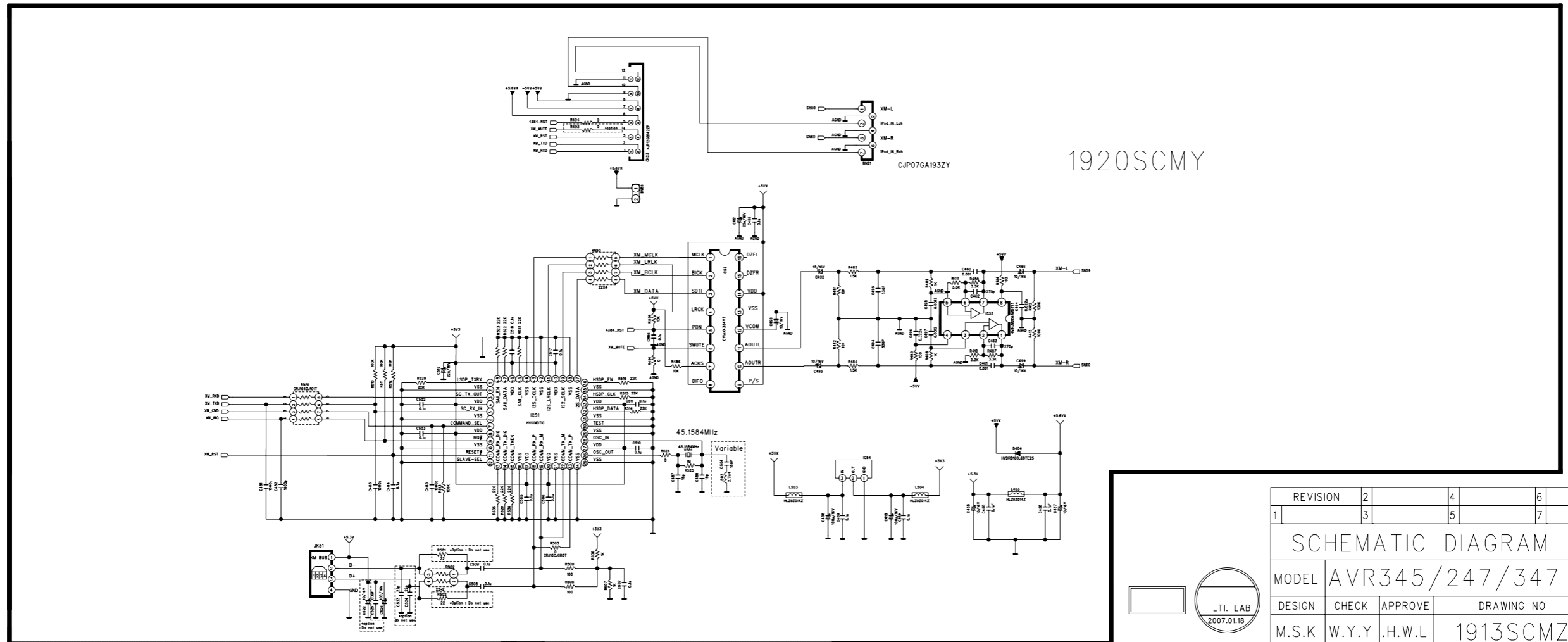


CUP11913Z

AVR345/347 PART (REGULATOR SECTION)



AVR247/347 PART (XM SECTION USA Ver. ONLY)

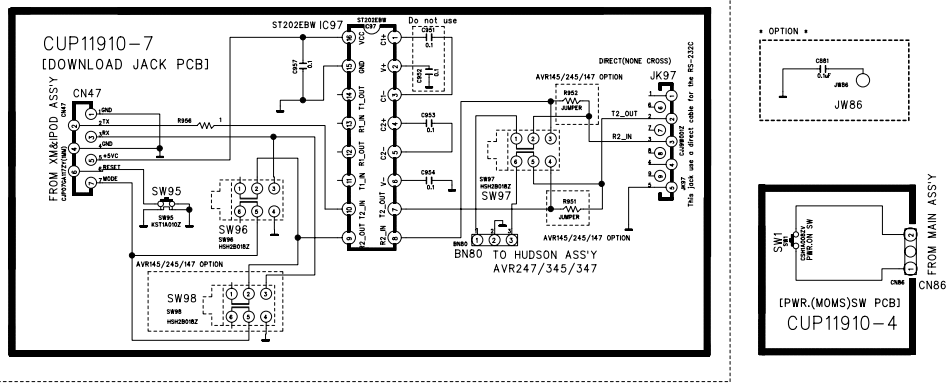


1920SCMY

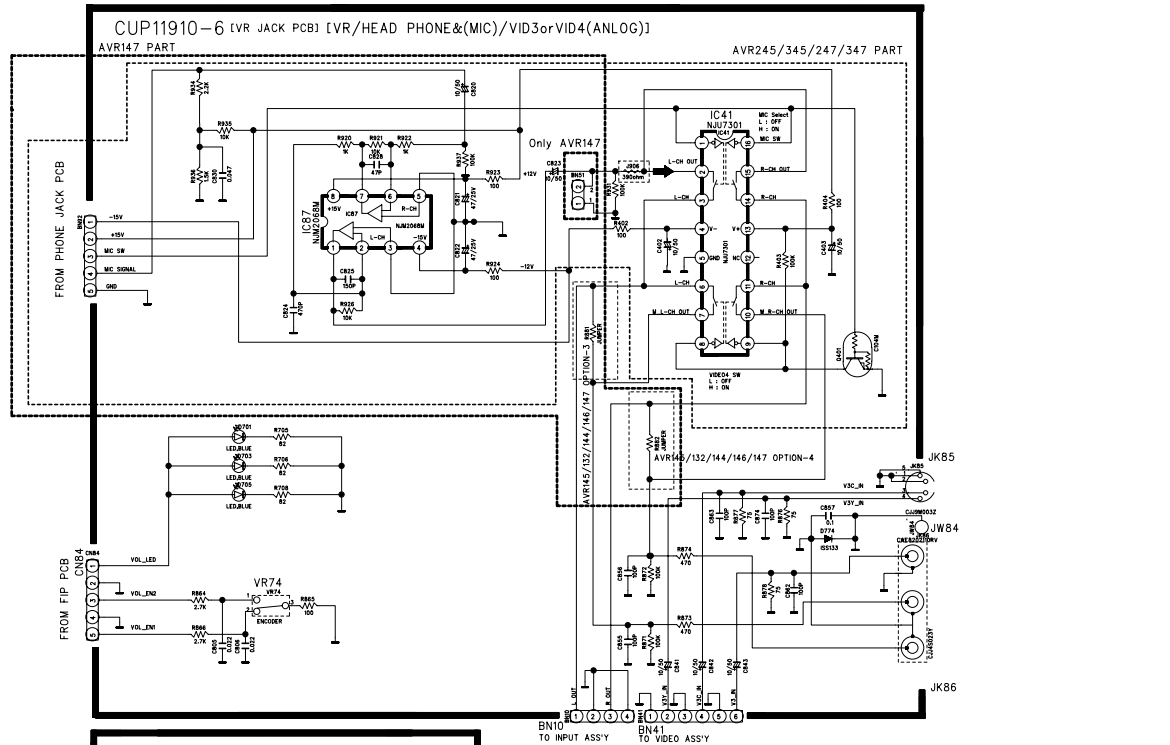
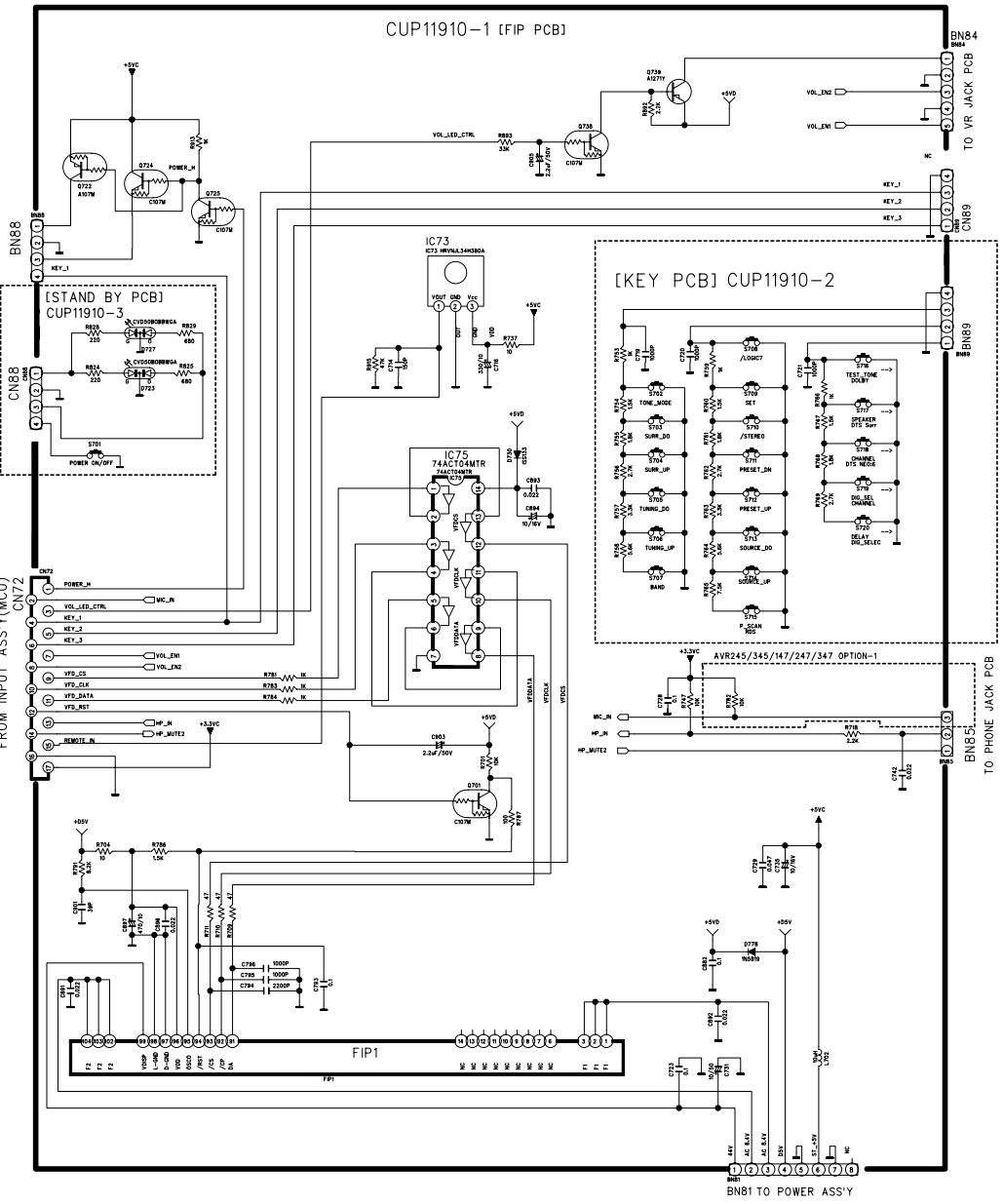
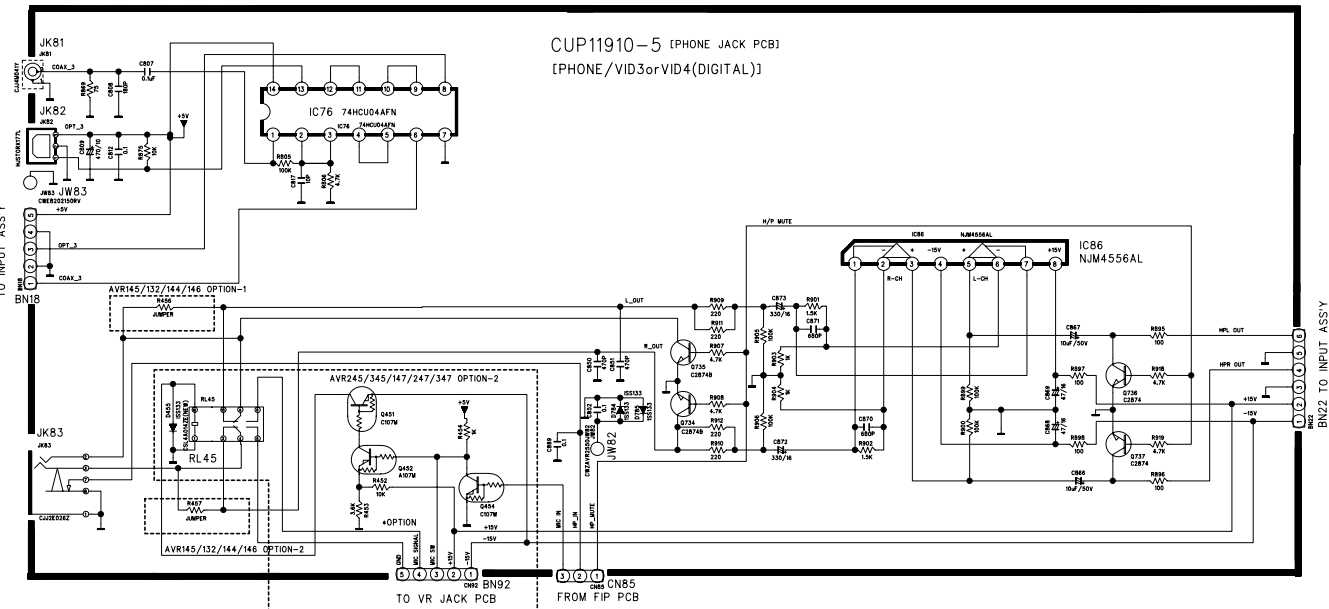
REVISION	2	4	6
	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR345/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
M.S.K	W.Y.Y	H.W.L	1913SCMZ
07.01.18	07.01.18	07.01.18	(MULTI)



AVR145/245/345/147/247/347 PART

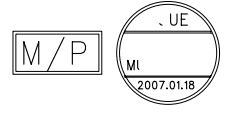


CUP11910X

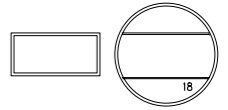
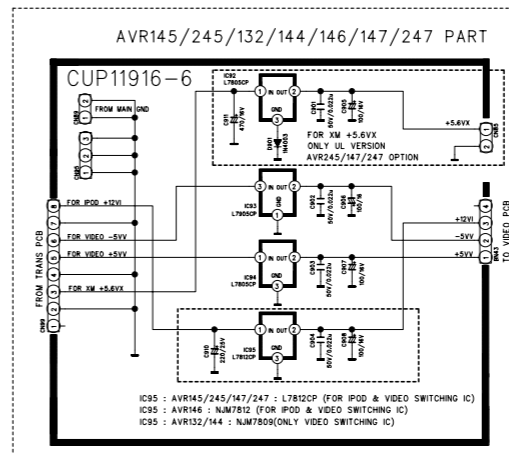
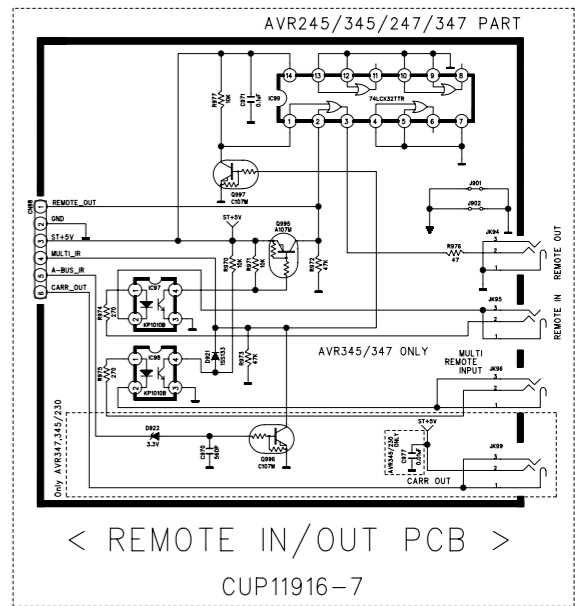
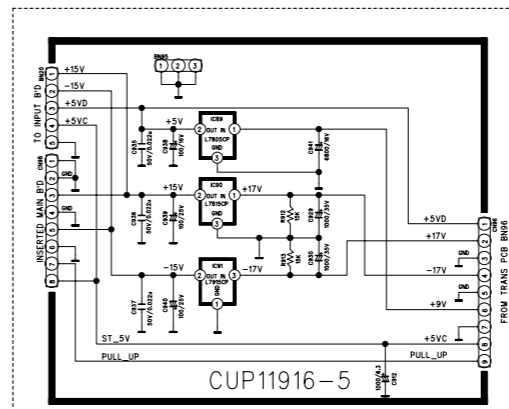
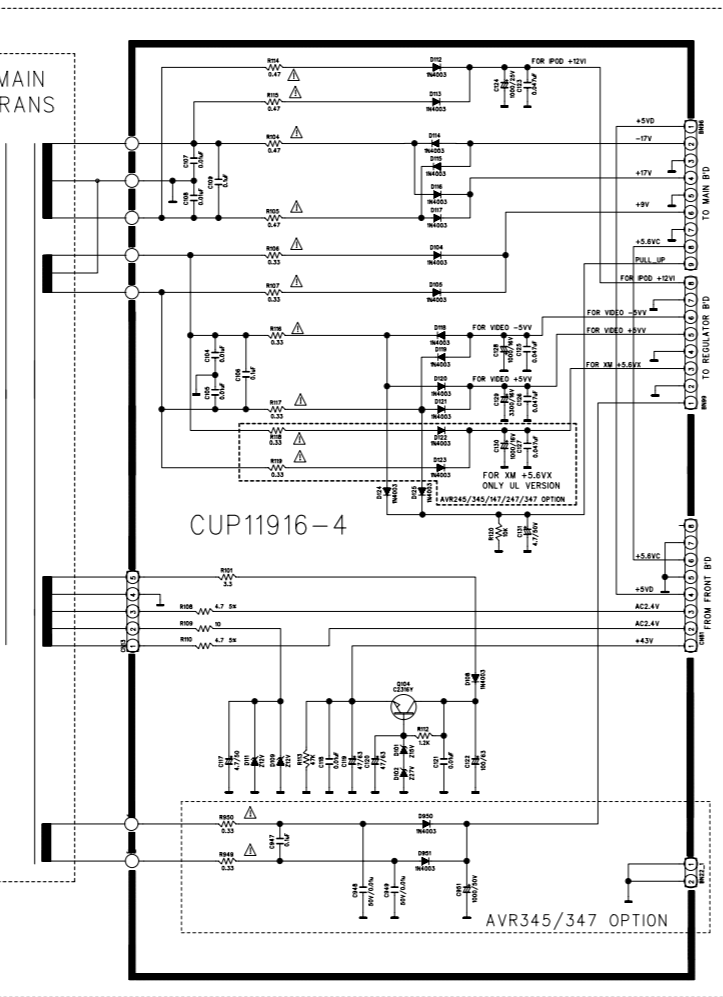
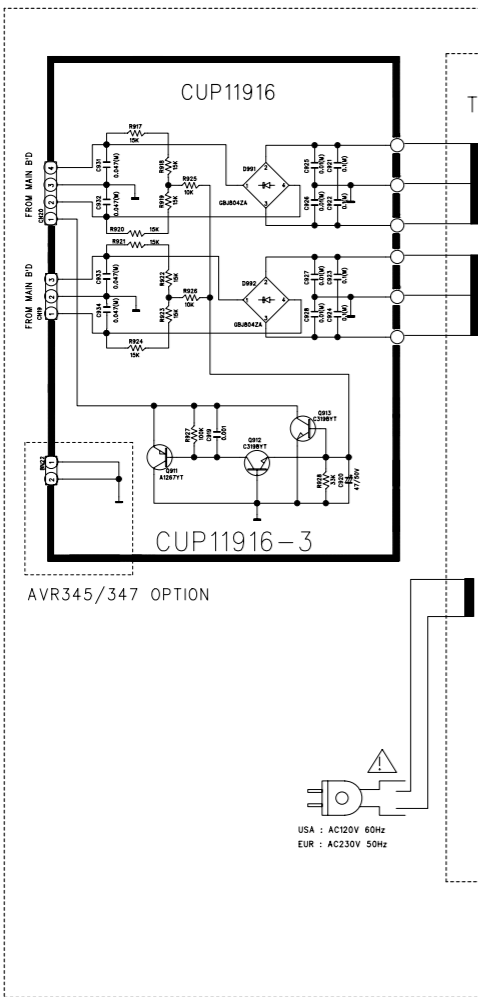
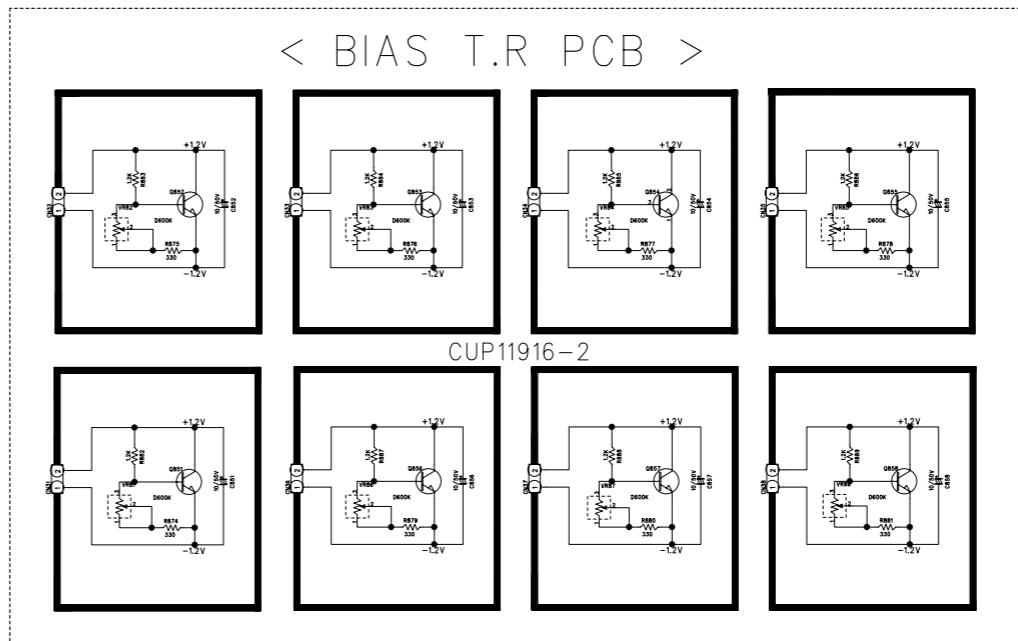
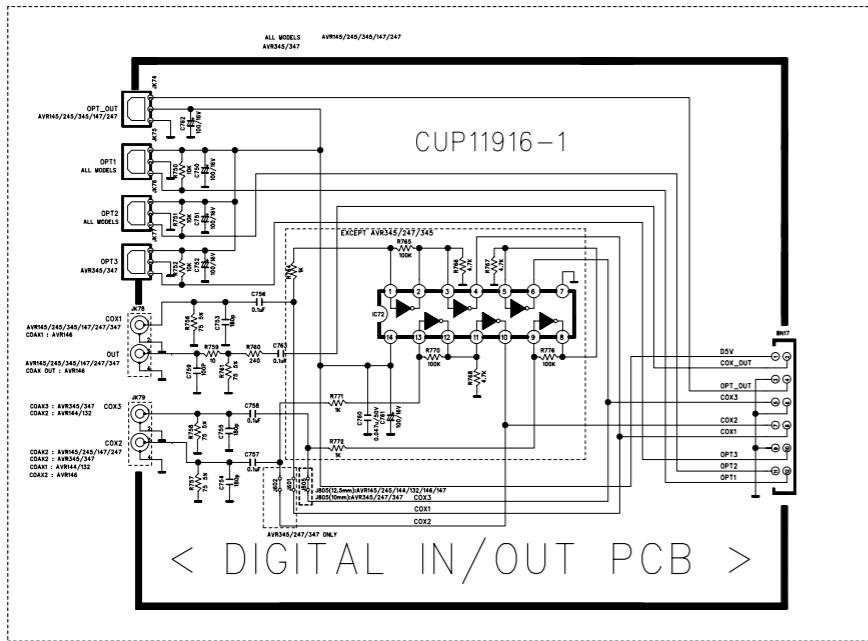


- CUP11910-8 (BLACKET JACK PCB FOR CARD CABLE)
- CUP11910-9 (BLACKET JACK PCB FOR PHONE JACK)

REVISION	2	4	6
1	3	5	7
<b>SCHEMATIC DIAGRAM</b>			
MODEL	AVR145/245/345/132/144 AVR146/147/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
S.H.Y	W.Y.Y	H.Y.L	1910SCMX (FRONT)
07.01.18	07.01.18	07.01.18	1/7

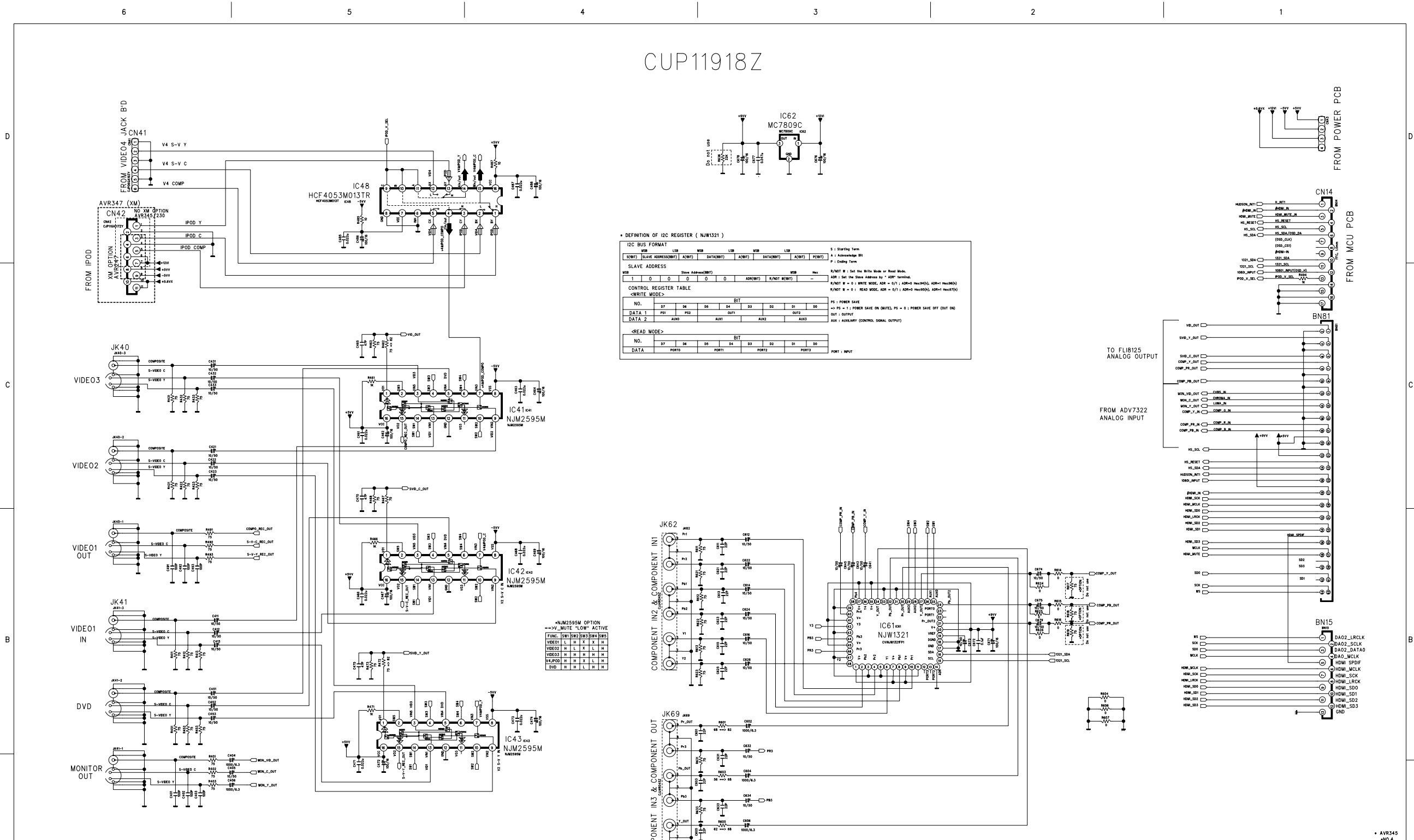


CUP11911X



REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR145/245/345/132/144 AVR146/147/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
C.B.L	W.Y.Y	H.W.L	1916SCMX
07.01.18	07.01.18	07.01.18	(POWER)

# CUP11918Z



• DEFINITION OF I2C REGISTER ( NJW1321 )

I2C BUS FORMAT

SBT	SLAVE ADDRESS	DATA	ACK	STOP
S	A	D	A	S

CONTROL REGISTER TABLE

<WRITE MODE>

NO.	D7	D6	D5	D4	D3	D2	D1	D0
DATA 1	PS1	PS2	AUX1	AUX2	AUX3	AUX4	AUX5	AUX6
DATA 2								

<READ MODE>

NO.	D7	D6	D5	D4	D3	D2	D1	D0
DATA	PORT0	PORT1	PORT2	PORT3	PORT : INPUT			

• NJM2595M OPTION  
 => S-V MUTE "LOW" ACTIVE

FUNCTION	S	V	M	L	O	A	S
VIDEO1	L	L	L	L	L	L	H
VIDEO2	H	L	L	L	L	L	H
VIDEO3	H	L	L	L	L	L	H
IP0D0	H	L	L	L	L	L	H
DVD	H	L	L	L	L	L	H

REVISION	2	4	6
1	3	5	7
SCHEMATIC DIAGRAM			
MODEL	AVR345/247/347		
DESIGN	CHECK	APPROVE	DRAWING NO
C.B.L	W.Y.Y.	H.W.L	1918SCMZ
07.01.29	07.01.29	07.01.29	(VIDEO)

