

# ONKYO SERVICE MANUAL

## DIGITAL SURROUND SYSTEM MODEL HTX-22HD(B)



**Black model**

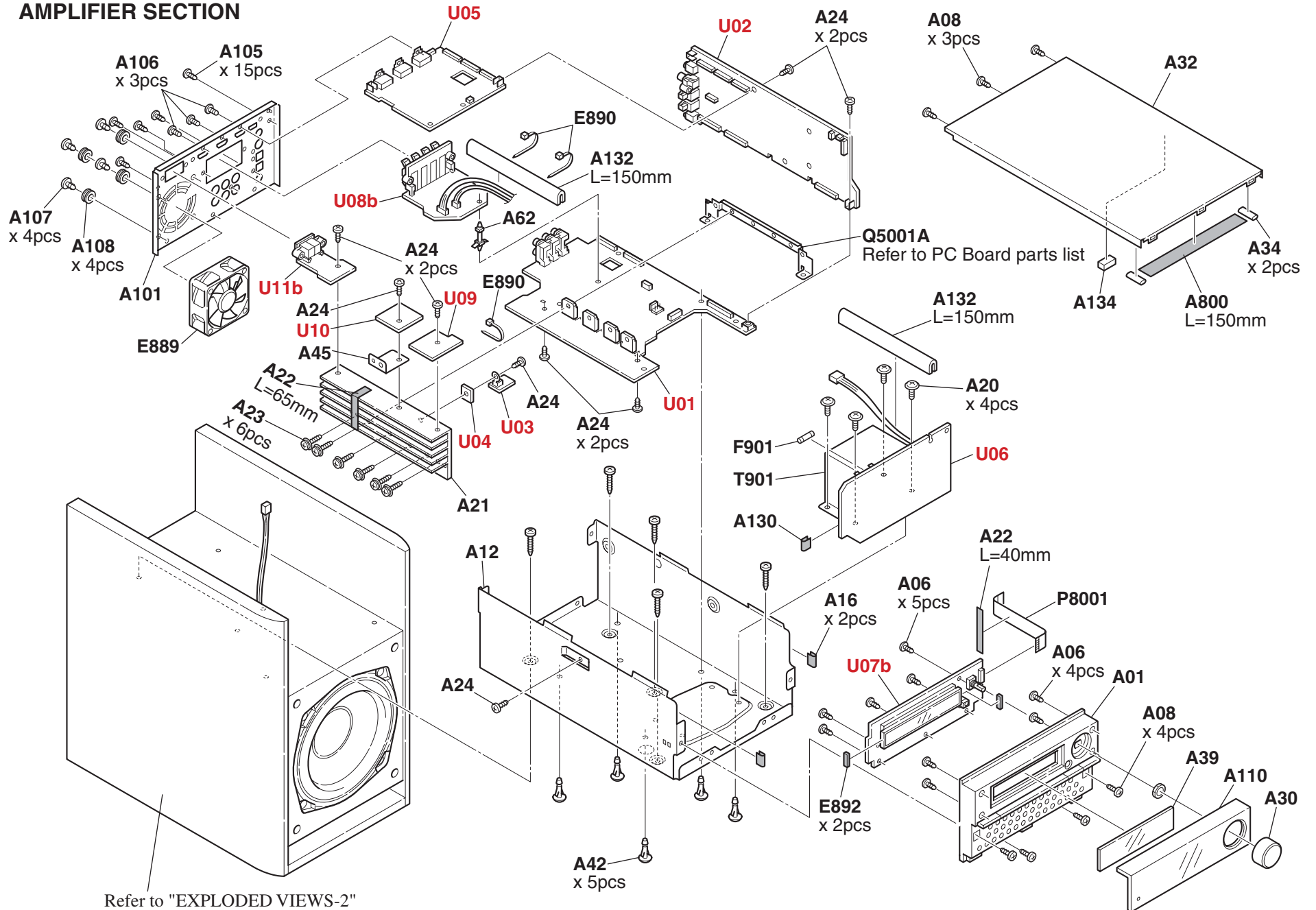
B MPB	230V AC, 50Hz
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### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

# EXPLODED VIEWS-1 AMPLIFIER SECTION



Refer to "EXPLODED VIEWS-2"

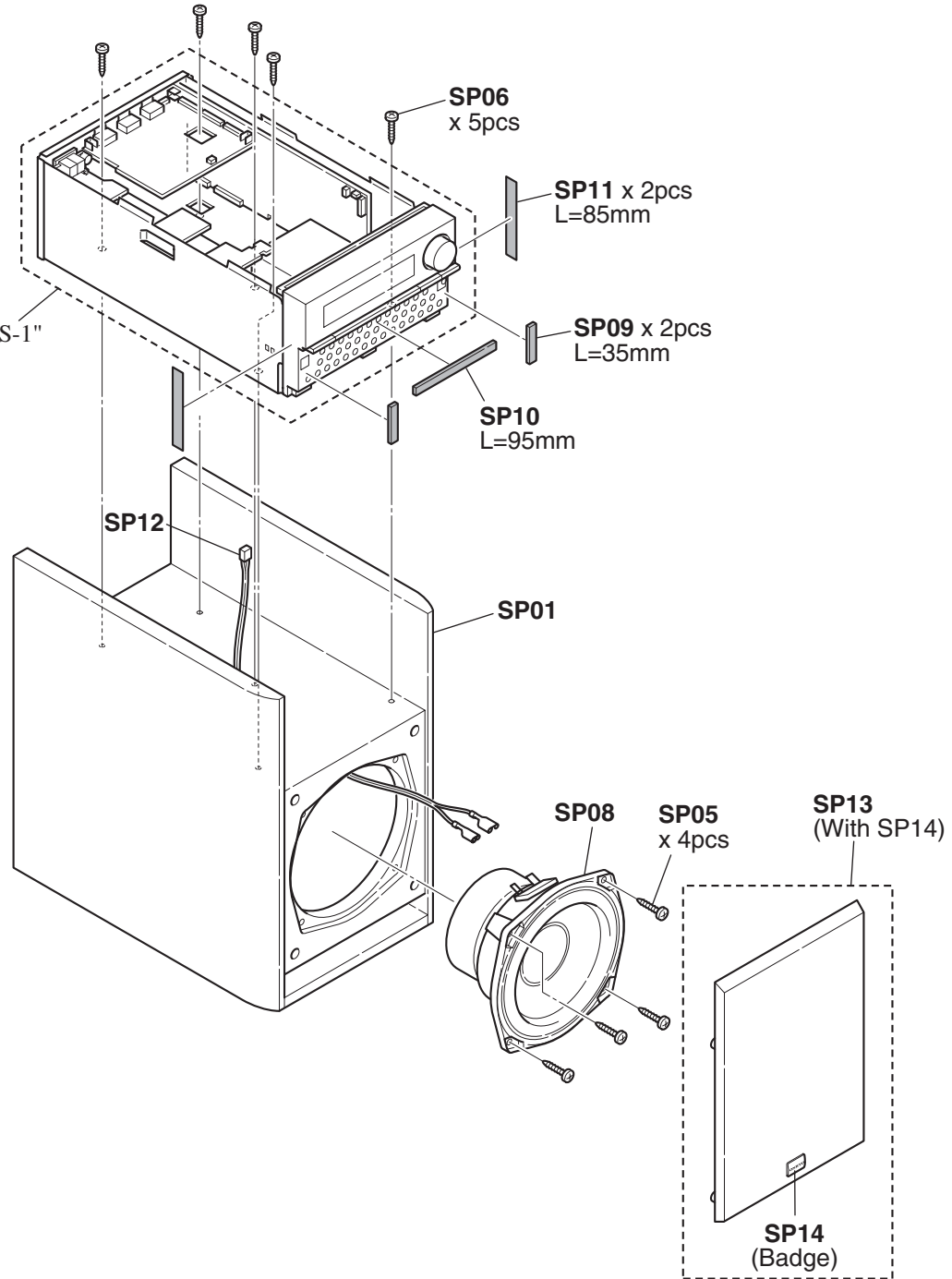
# EXPLODED VIEWS-2 SPEAKER SECTION

Refer to "EXPLODED VIEWS-1"



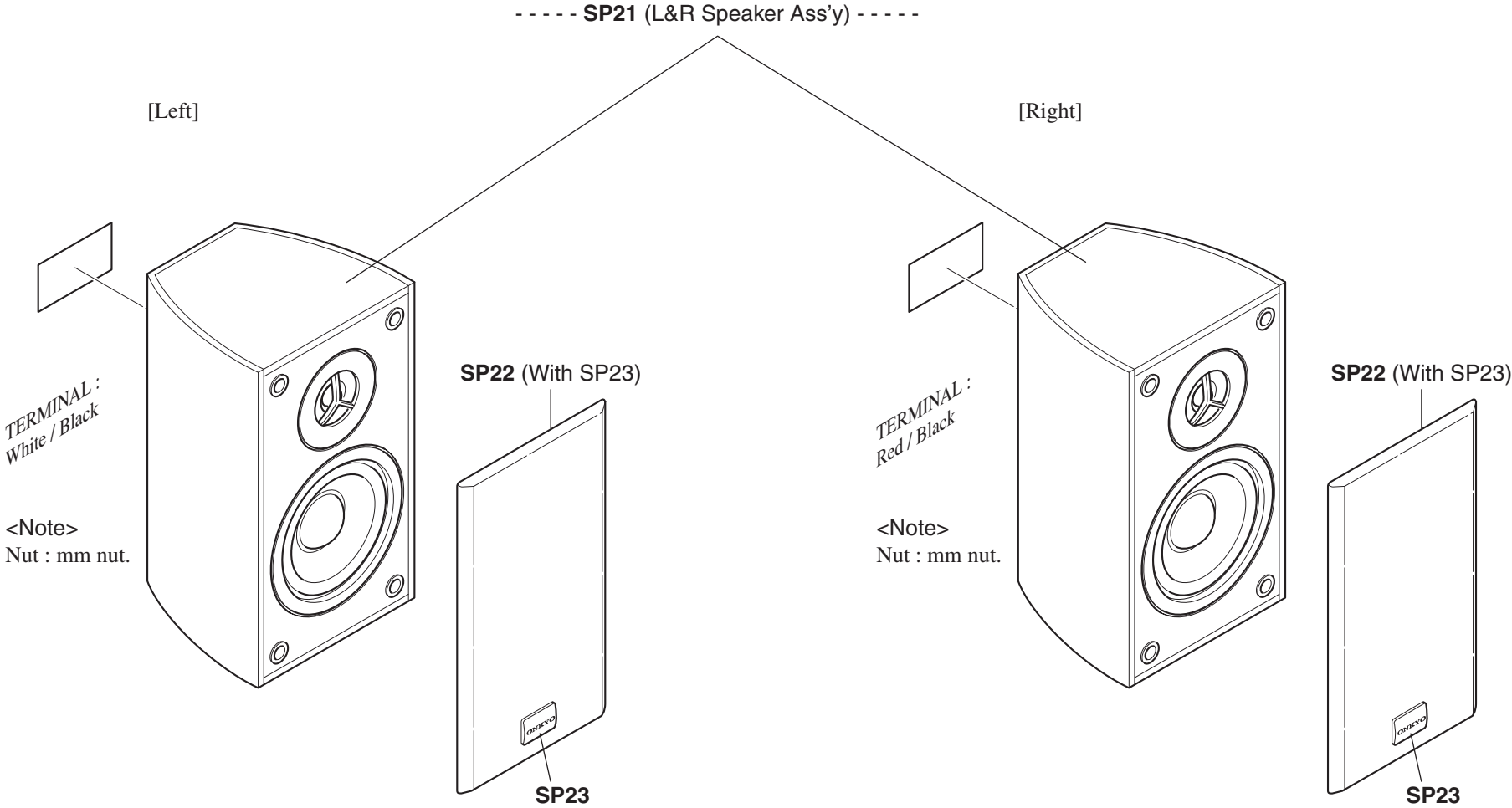
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SP15

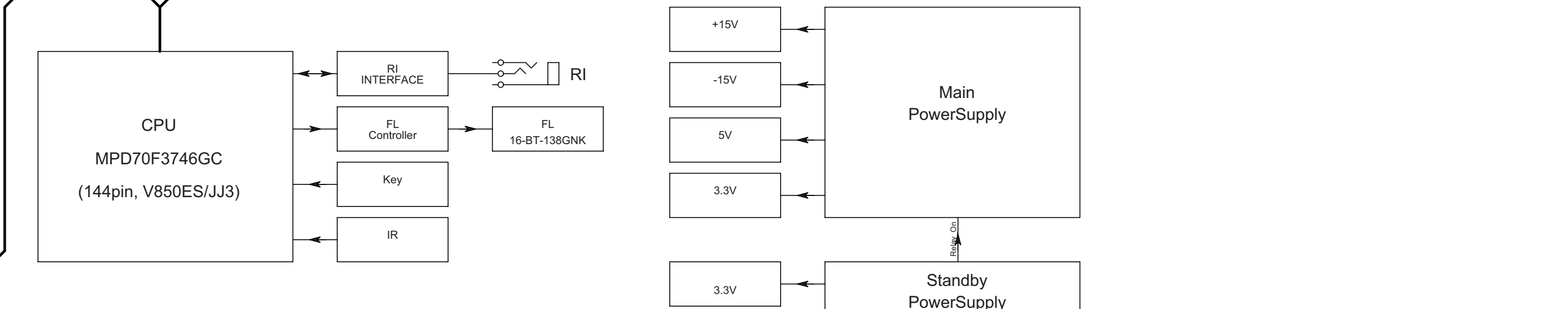
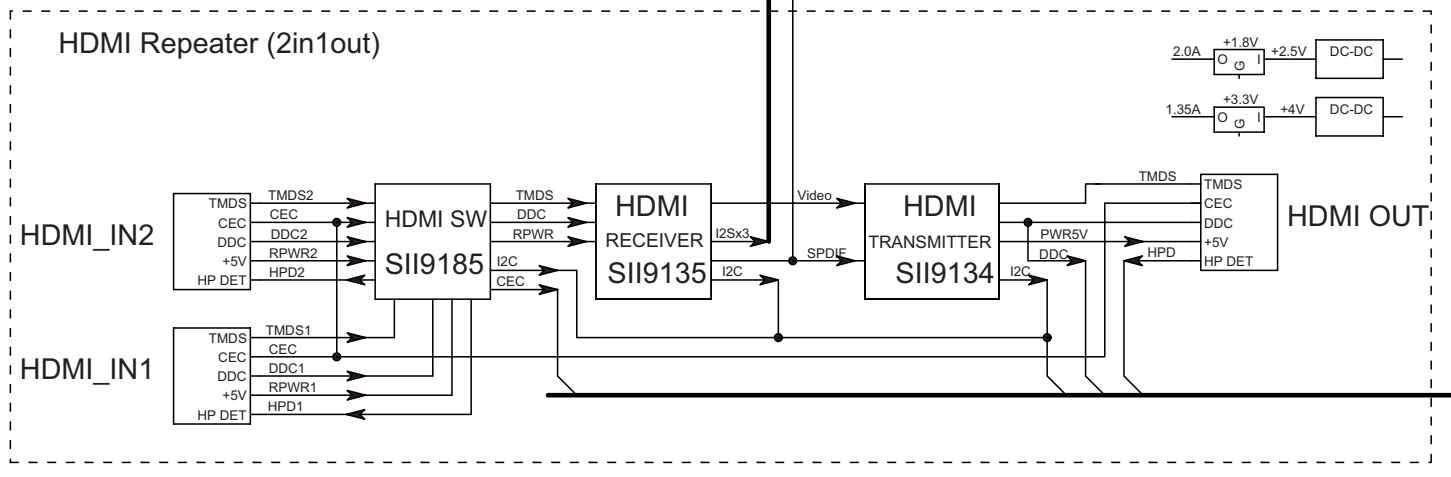
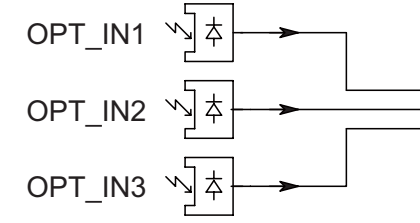
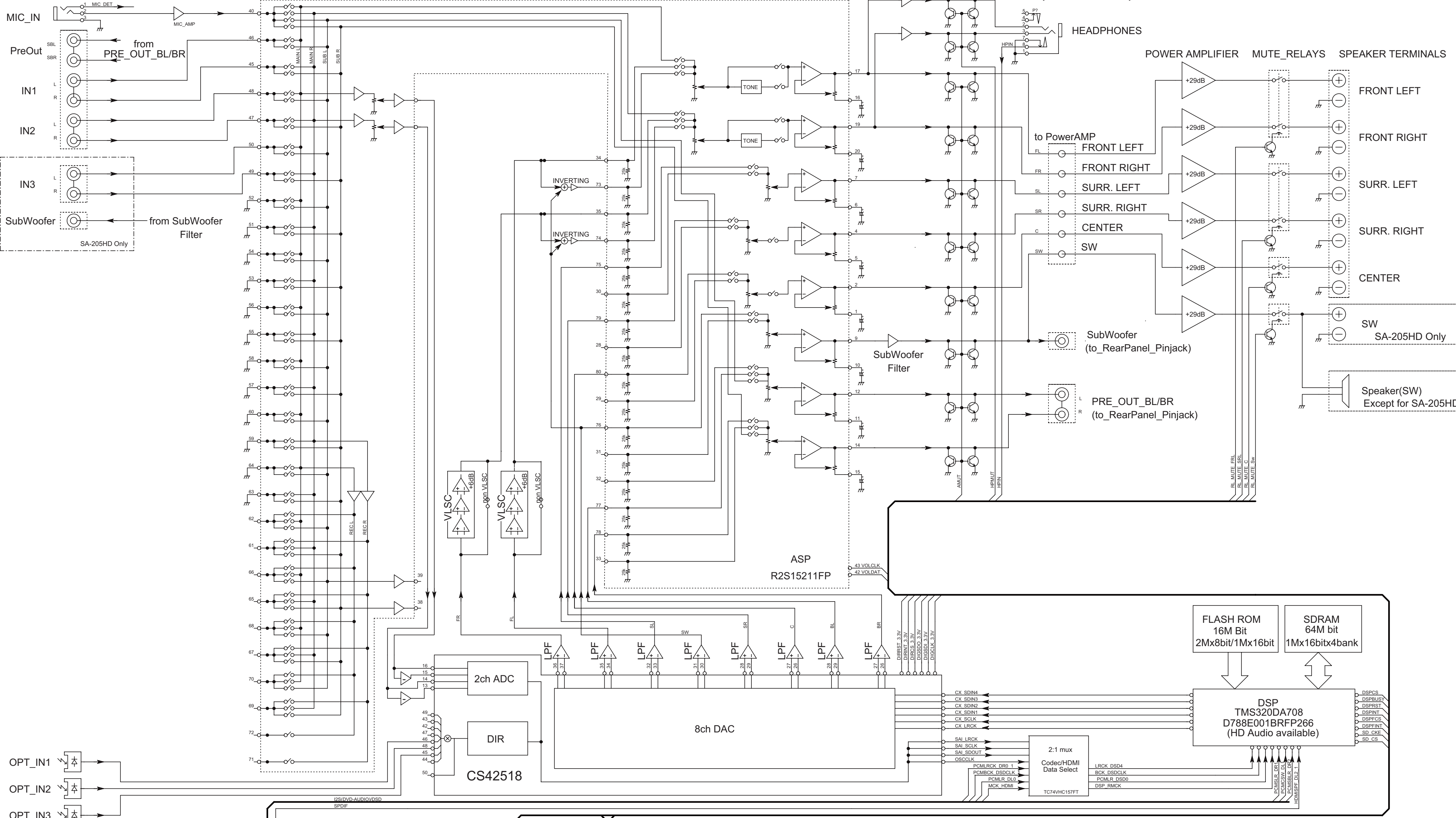


# EXPLODED VIEWS-3

## FRONT SPEAKER (HTX-22HDST)



# Model No. DHT-9HD/HTX-22HD/HTX-E5HD/GXW-2.1HD/SA-205HD BLOCK DIAGRAM ( PART-1 )

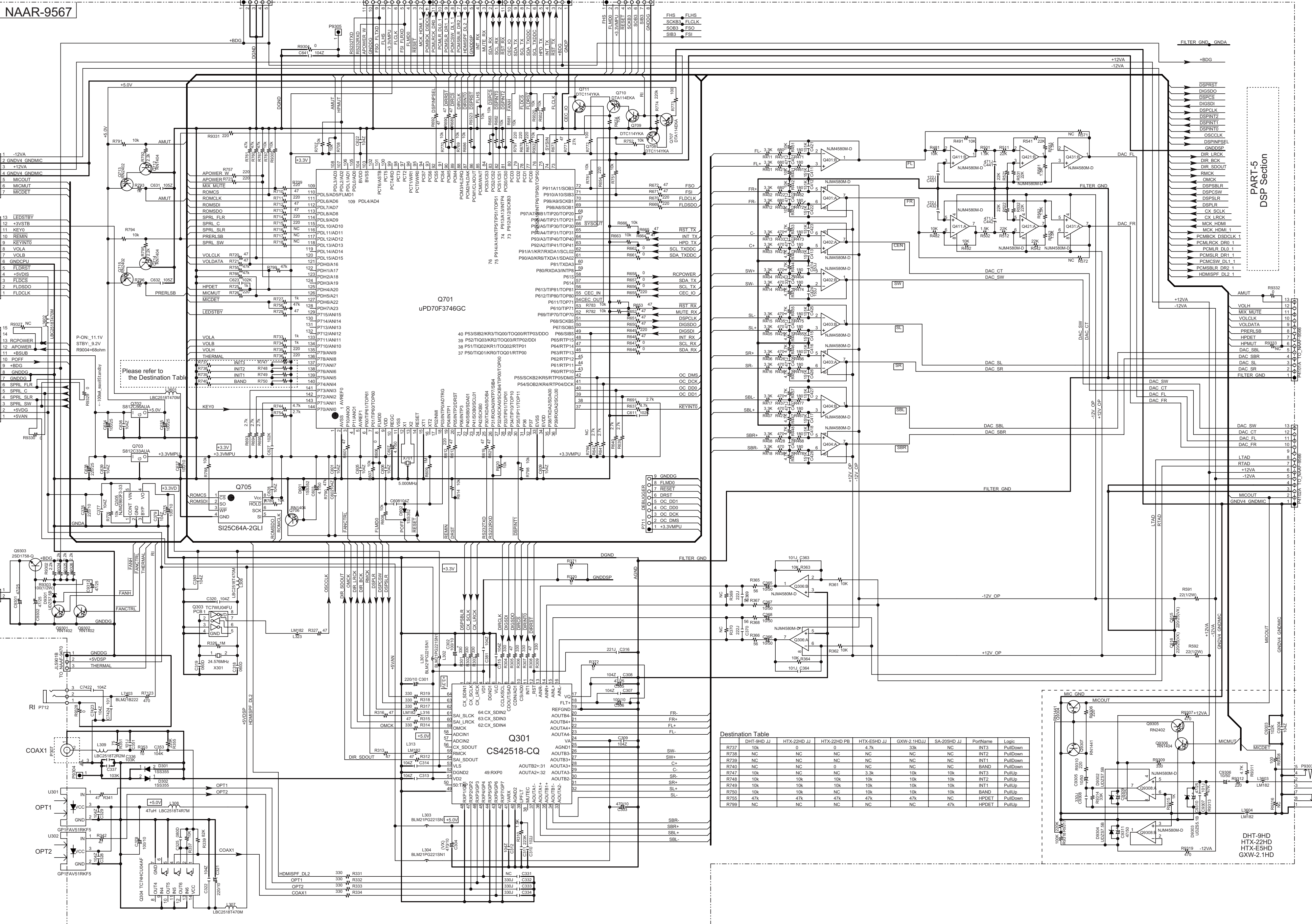












NAAR-9567

FHS	FLHS
SCKB3	FLCLK
SOB3	FSD
SIB3	FSI

PART-5  
DSP Section

Destination Table

	DHT-9HD JJ	HTX-22HD JJ	HTX-22HD PB	HTX-E5HD JJ	GXW-2.1HD JJ	SA-205HD JJ	PortName	Logic
R737	10k	0	0	4.7k	33k	NC	INT3	PullDown
R738	NC	NC	NC	NC	NC	NC	INT2	PullDown
R739	NC	NC	NC	NC	NC	NC	INT1	PullDown
R740	NC	NC	0	NC	NC	NC	BAND	PullDown
R747	10k	NC	NC	3.3k	10k	10k	INT3	PullUp
R748	10k	10k	10k	10k	10k	10k	INT2	PullUp
R749	10k	10k	10k	10k	10k	10k	INT1	PullUp
R750	10k	10k	NC	10k	10k	10k	BAND	PullUp
R755	47k	47k	47k	47k	47k	NC	HPDET	PullDown
R799	NC	NC	NC	NC	NC	47k	HPDET	PullUp

DHT-9HD  
HTX-22HD  
HTX-E5HD  
GXW-2.1HD



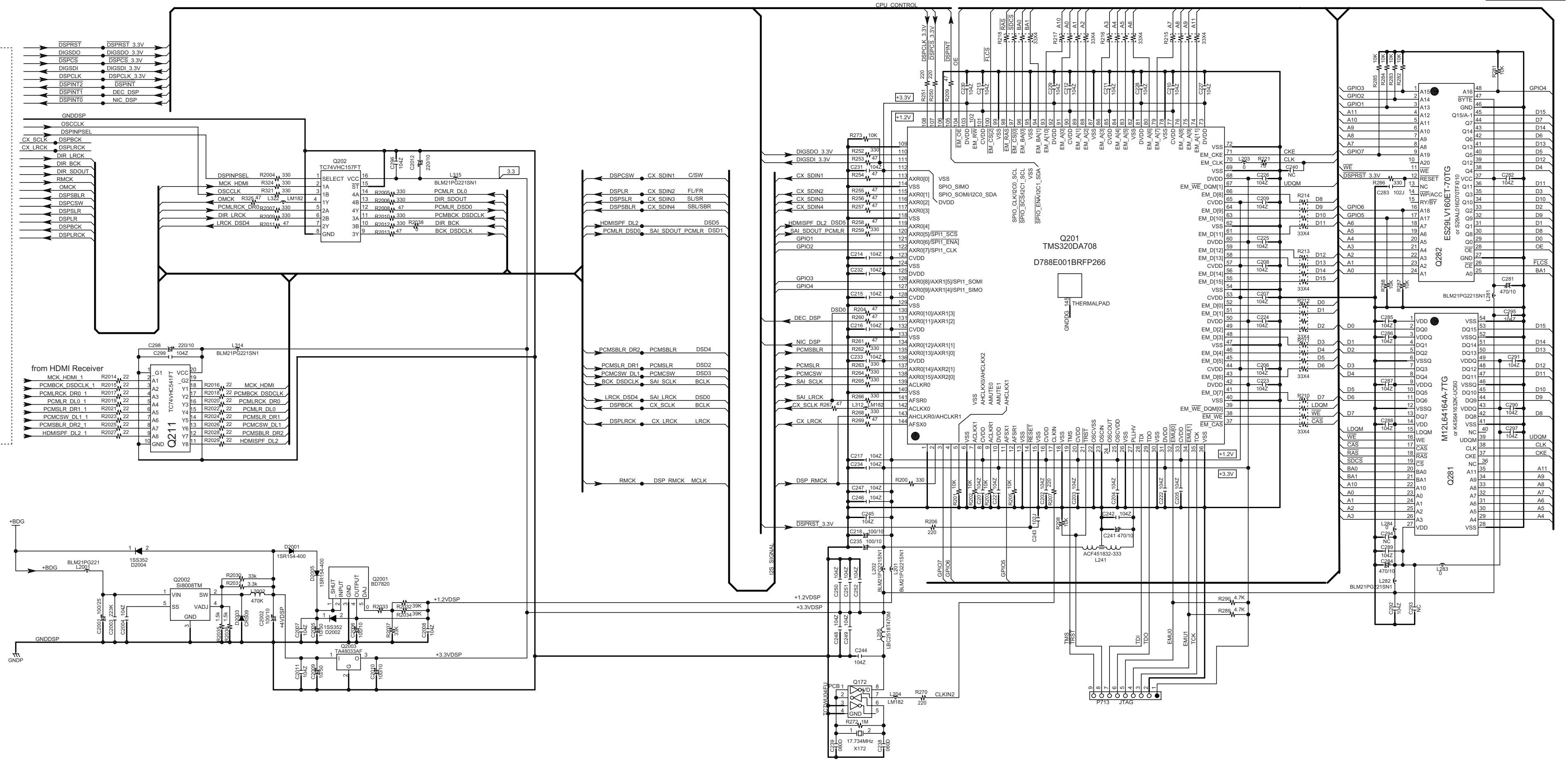
# Model No. DHT-9HD/HTX-22HD/HTX-E5HD/GXW-2.1HD/SA-205HD SCHEMATIC DIAGRAM (PART-5) DSP SECTION

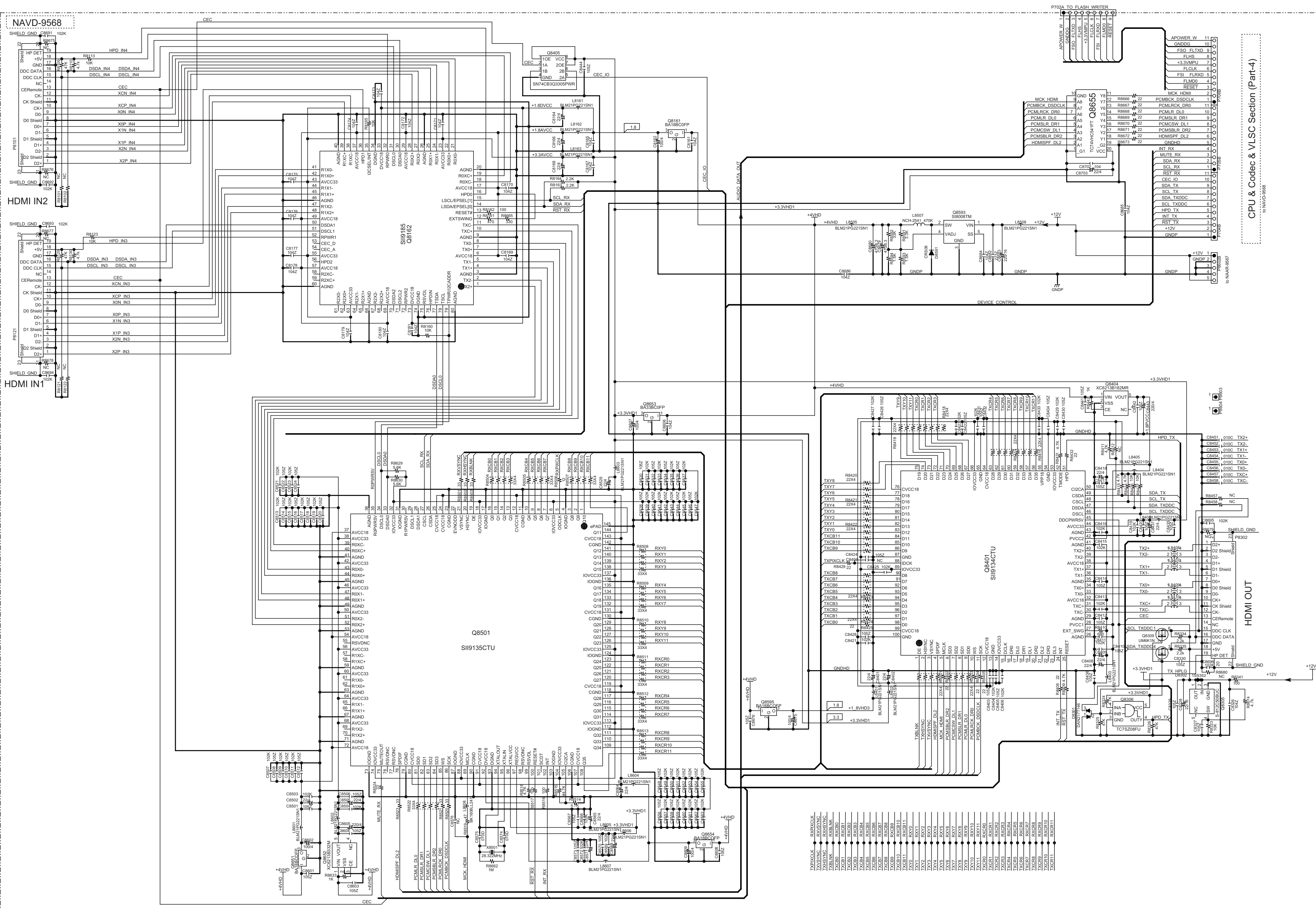
NAAR-9567

Comment : Clock Level adjust  
L203 - LL121

Comment : EMI Level adjust  
R221 - 47ohm -> 75ohm  
C240 - 100D

CPU & Codec & VLSC Section  
PART-4





CPU & Codec & VLSC Section (Part-4)

HDMI OUT

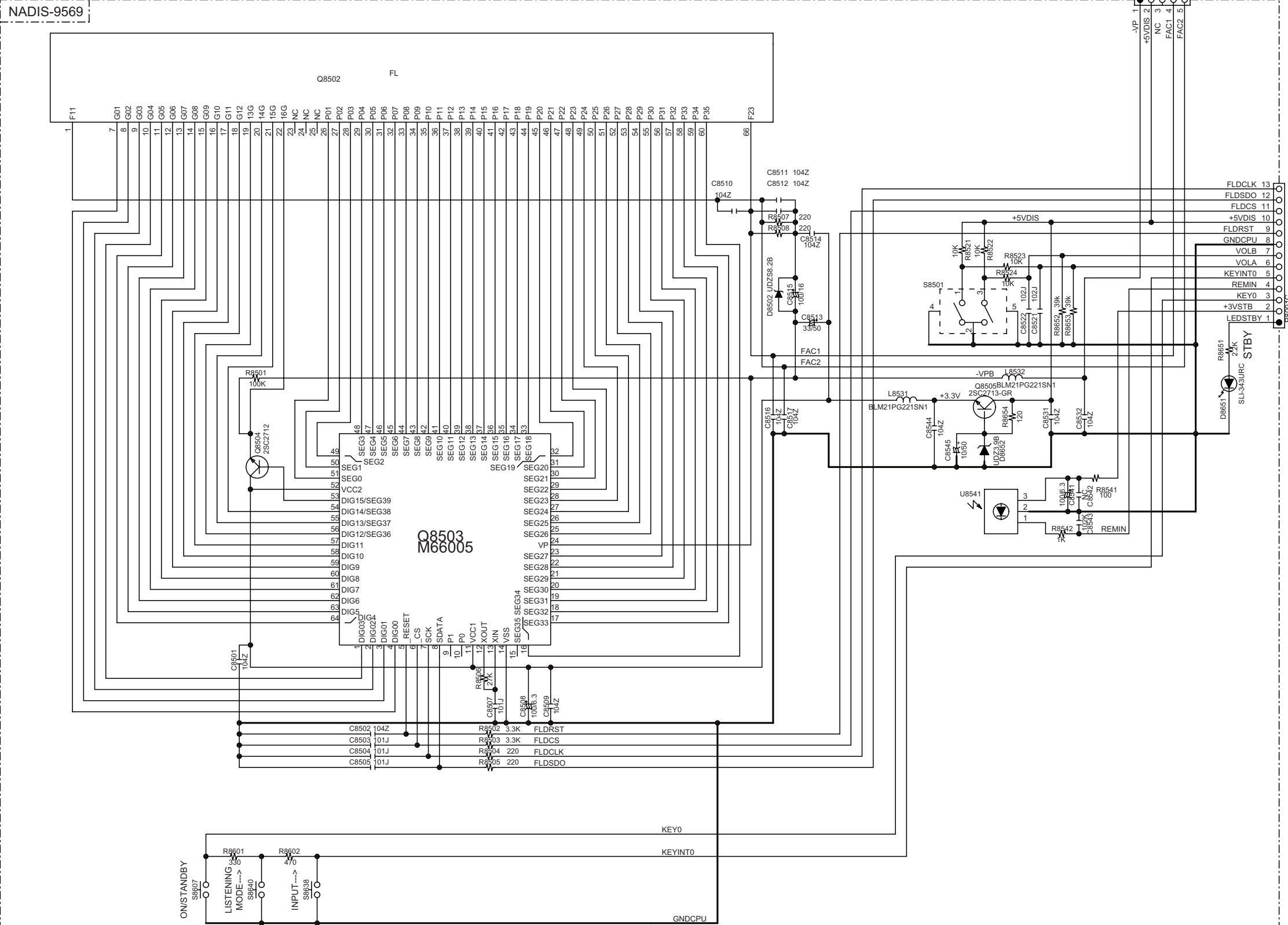
+12V

+3.3VHD1

+4VHD

# Model No. DHT-9HD/HTX-22HD/HTX-E5HD/GXW-2.1HD/SA-205HD

## Schematic Diagram (Part-7-1) Display Section

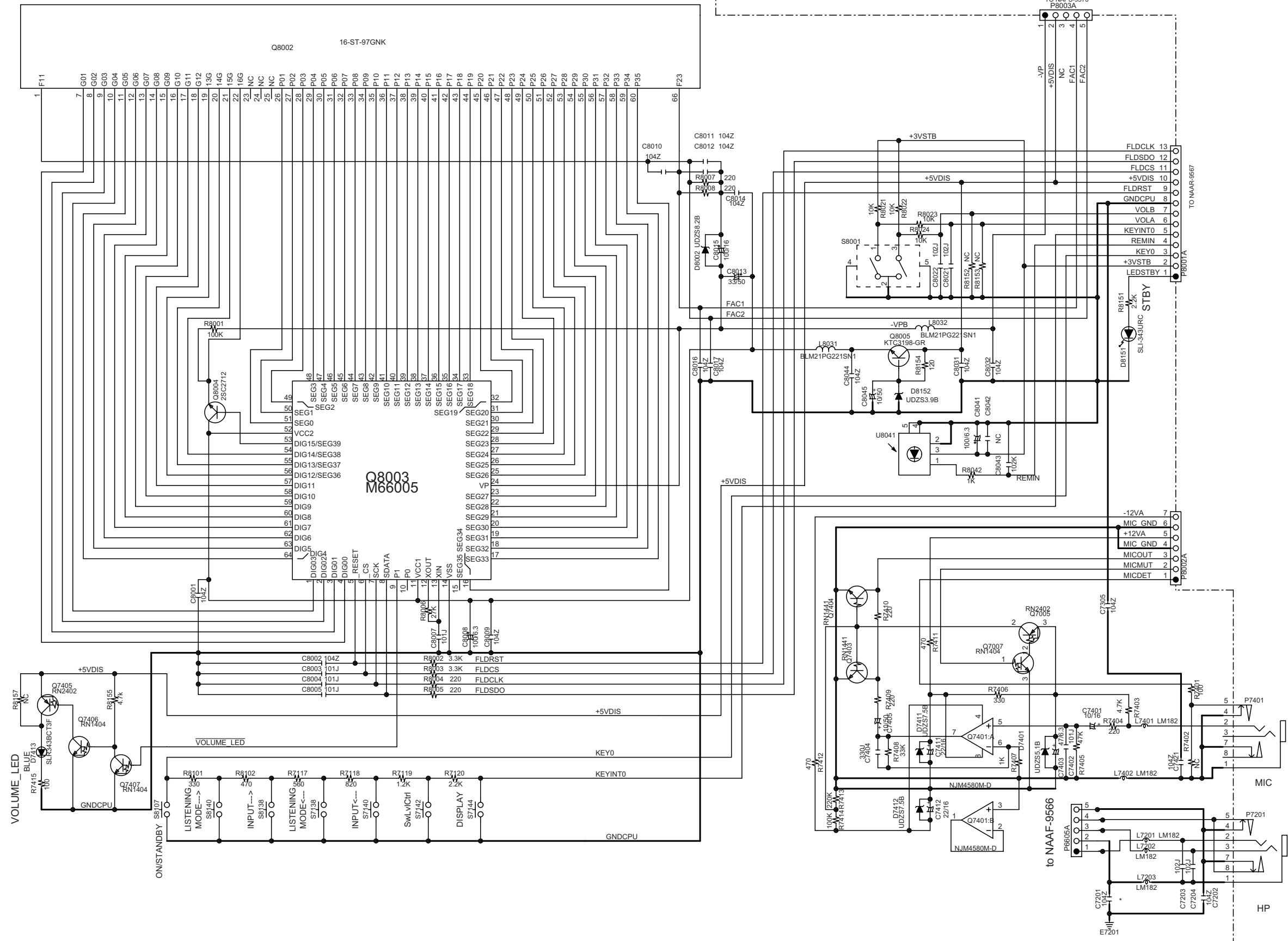


TO NAAR-9567

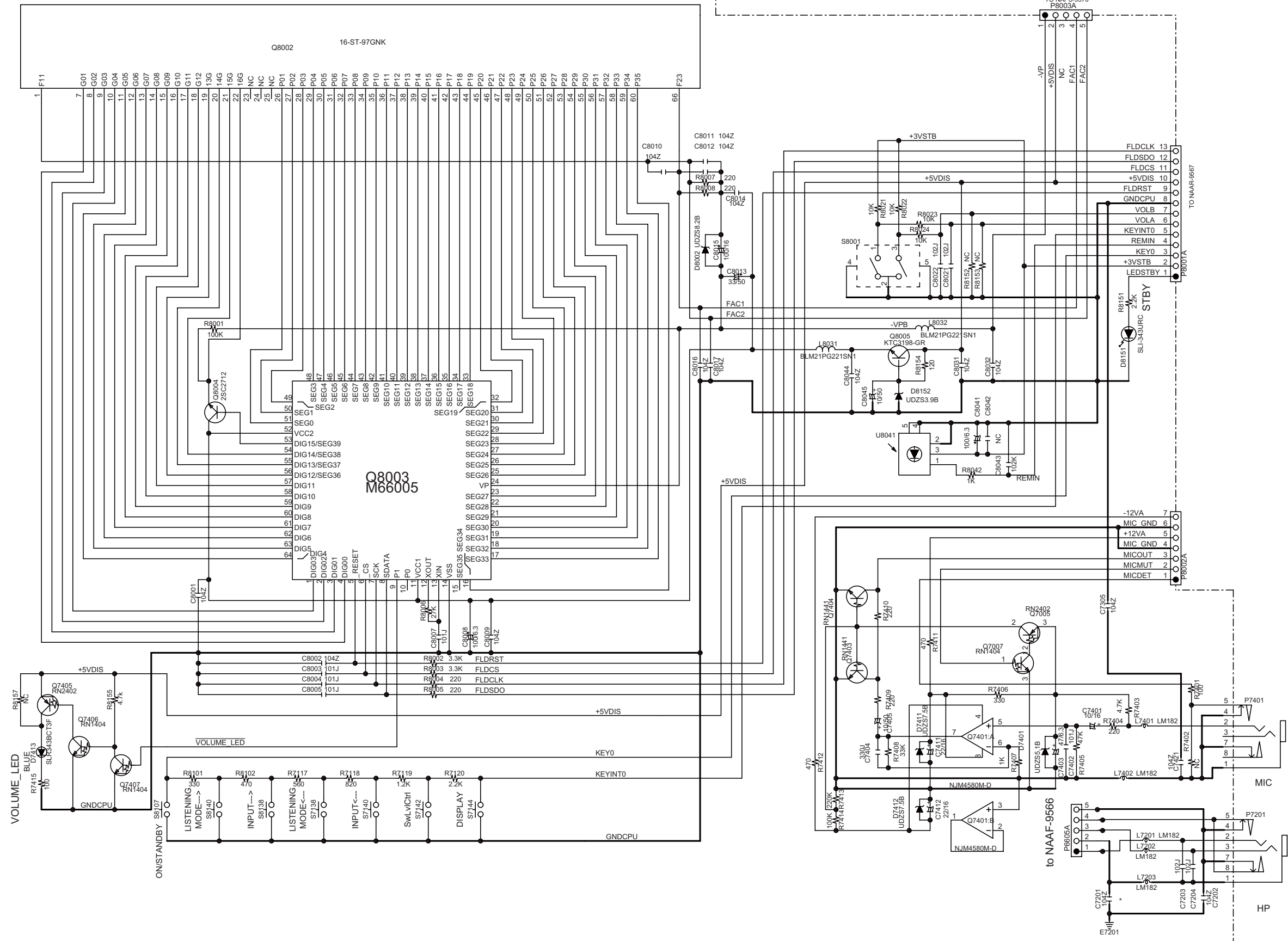
PR001C



NADIS-9586



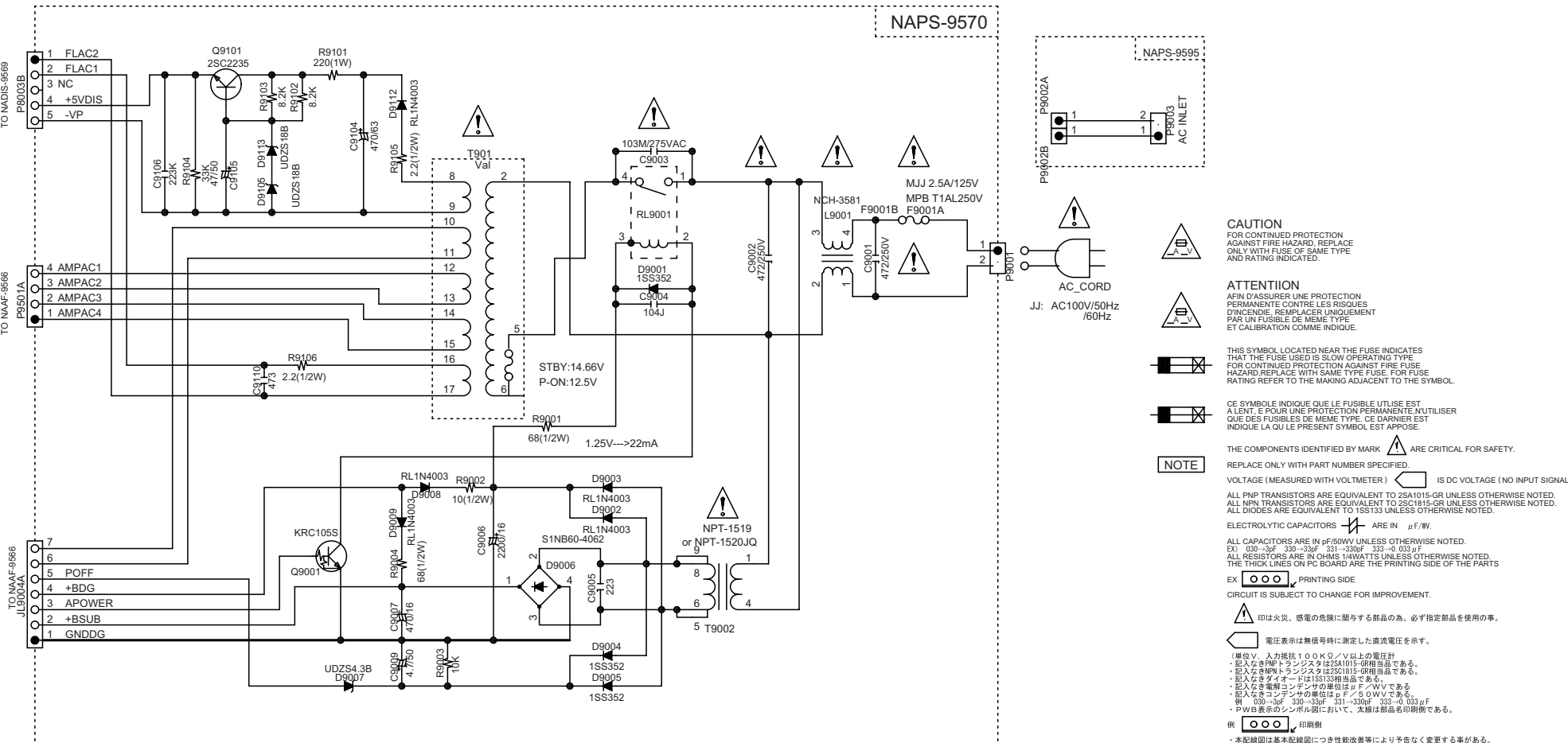
NADIS-9586



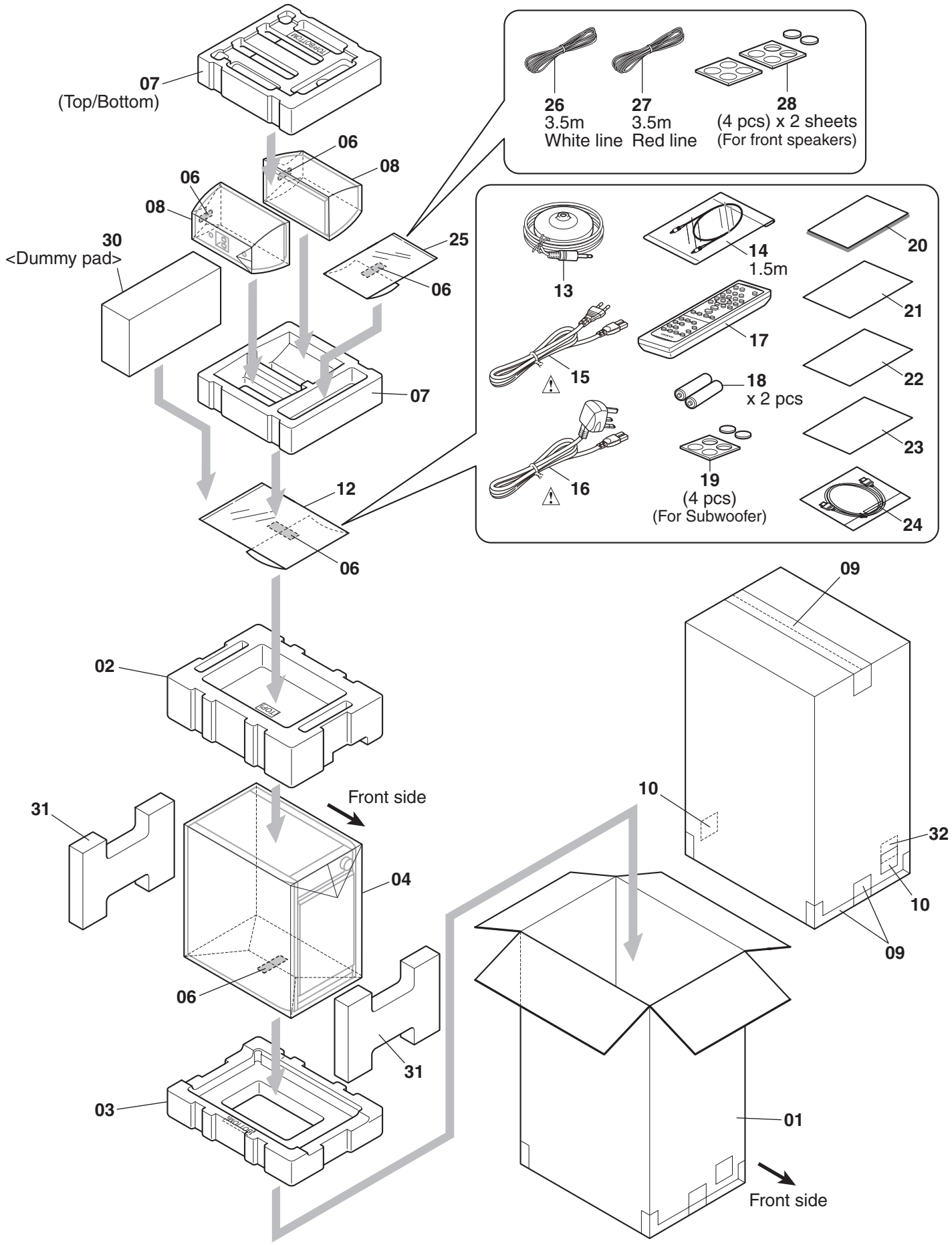


# Model No. DHT-9HD/HTX-22HD/HTX-E5HD/GXW-2.1HD/SA-205HD

## Schematic Diagram (Part-8) PowerSupply Section



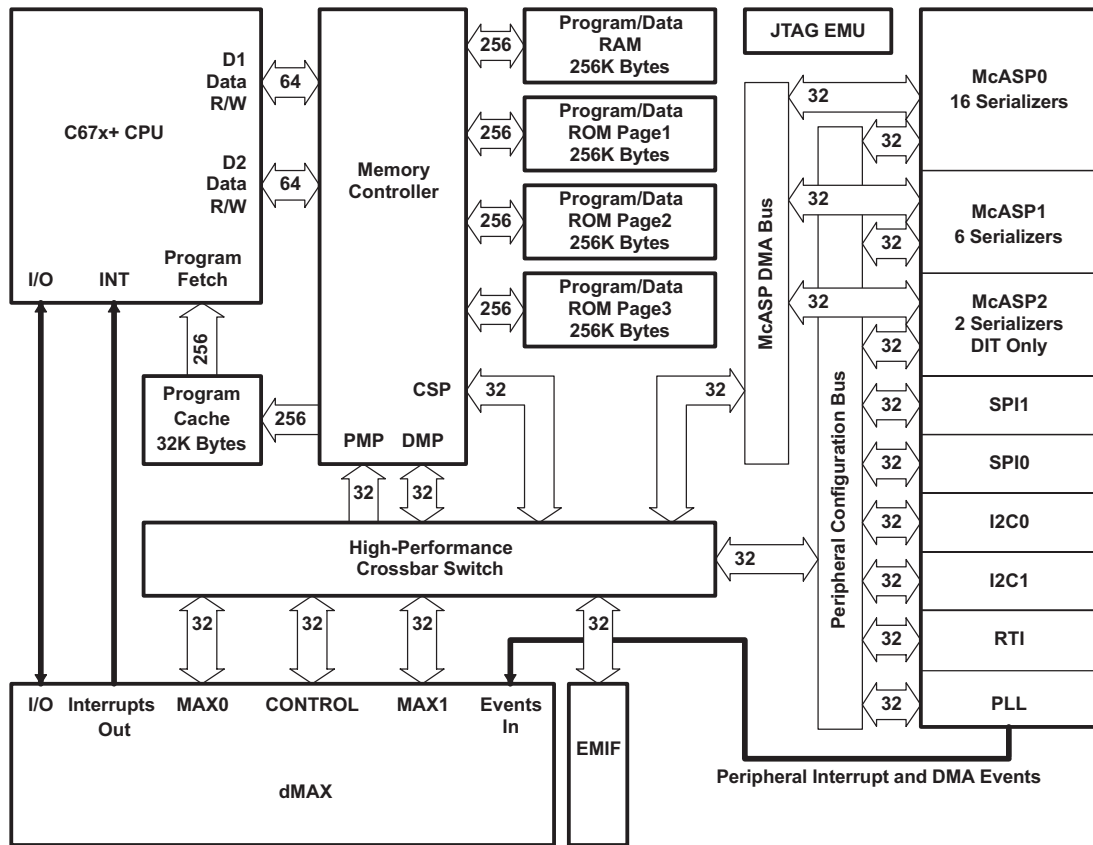
# PACKING PROCEDURE



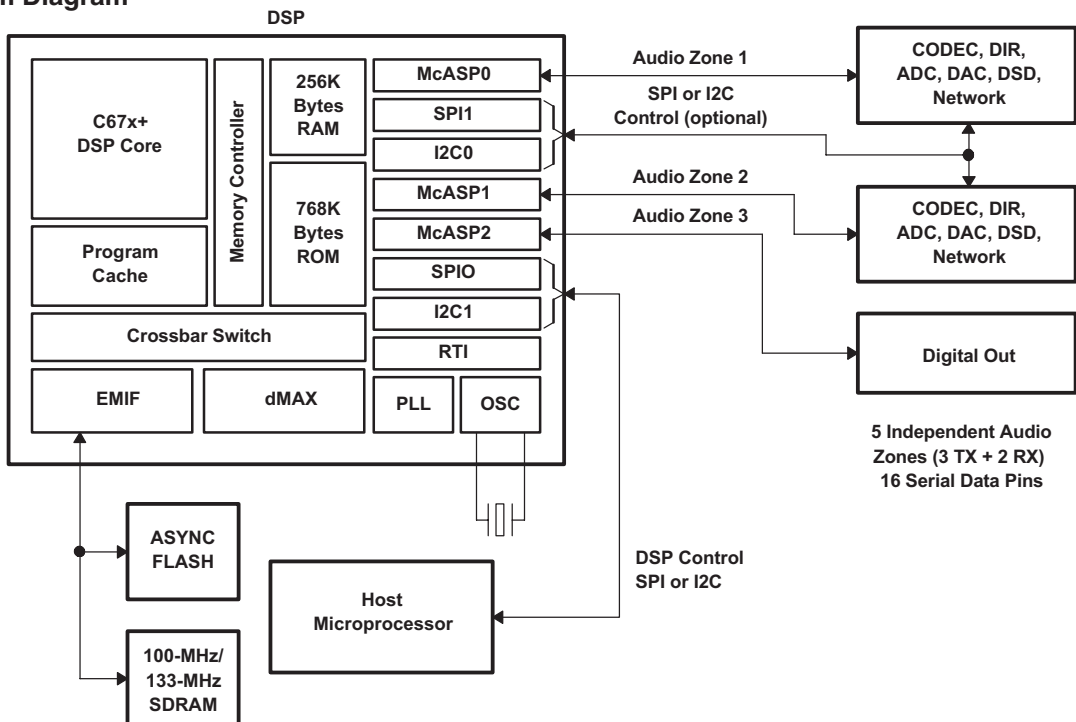
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -1

Q201 : D788E001BRFP266 (Audio DSP) -1/5

Device Block Diagram



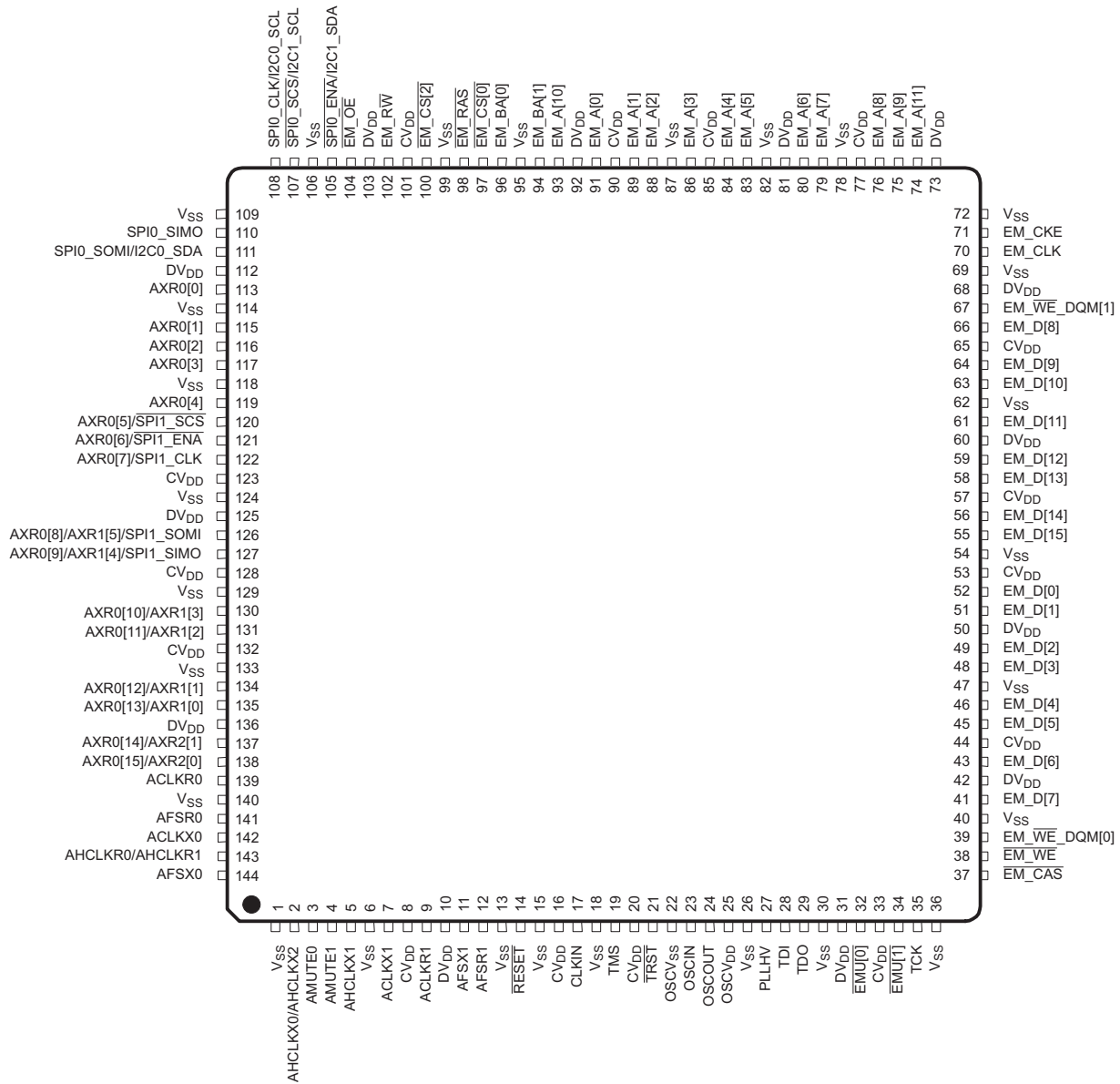
System Diagram



# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -2

## Q201 : D788E001BRFP266 (Audio DSP) -2/5

### PIN CONFIGURATION





## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -3

### Q201 : D788E001BRFP266 (Audio DSP) -3/5

#### TERMINAL DESCRIPTION (1/3)

SIGNAL NAME	PIN NO.	TYPE <sup>(1)</sup>	PULL <sup>(2)</sup>	GPIO <sup>(3)</sup>	DESCRIPTION
<b>External Memory Interface (EMIF) Address and Control</b>					
EM_A[0]	91	O	-	N	EMIF Address Bus
EM_A[1]	89	O	-	N	
EM_A[2]	88	O	-	N	
EM_A[3]	86	O	-	N	
EM_A[4]	84	O	-	N	
EM_A[5]	83	O	-	N	
EM_A[6]	80	O	-	N	
EM_A[7]	79	O	-	N	
EM_A[8]	76	O	-	N	
EM_A[9]	75	O	-	N	
EM_A[10]	93	O	-	N	
EM_A[11]	74	O	-	N	
EM_BA[0]	96	O	-	N	SDRAM Bank Address and Asynchronous Memory Low-Order Address
EM_BA[1]	94	O	-	N	
EM_CS[0]	97	O	-	N	SDRAM Chip Select
EM_CS[2]	100	O	-	N	Asynchronous Memory Chip Select
EM_CAS	37	O	-	N	SDRAM Column Address Strobe
EM_RAS	98	O	-	N	SDRAM Row Address Strobe
EM_WE	38	O	-	N	SDRAM Write Enable
EM_CKE	71	O	-	N	SDRAM Clock Enable
EM_CLK	70	O	-	N	SDRAM Clock
EM_WE_DQM[0]	39	O	-	N	Write Enable or Byte Enable for EM_D[7:0]
EM_WE_DQM[1]	67	O	-	N	Write Enable or Byte Enable for EM_D[15:8]
EM_OE	104	O	-	N	SDRAM Output Enable
EM_RW	102	O	-	N	Asynchronous Memory Read/not Write

(1) TYPE column refers to pin direction in functional mode. If a pin has more than one function with different directions, the functions are separated with a slash (/).

(2) PULL column:  
IPD = Internal Pulldown resistor  
IPU = Internal Pullup resistor

(3) If the GPIO column is 'Y', then in GPIO mode, the pin is configurable as an IO unless otherwise marked.

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -4

### Q201 : D788E001BRFP266 (Audio DSP) -4/5

#### TERMINAL DESCRIPTION (2/3)

SIGNAL NAME	PIN NO.	TYPE <sup>(1)</sup>	PULL <sup>(2)</sup>	GPIO <sup>(3)</sup>	DESCRIPTION
<b>McASP0, McASP1, McASP2, and SPI1 Serial Ports</b>					
AHCLKR0/AHCLKR1	143	IO	-	Y	McASP0 and McASP1 Receive Master Clock
ACLKR0	139	IO	-	Y	McASP0 Receive Bit Clock
AFSR0	141	IO	-	Y	McASP0 Receive Frame Sync (L/R Clock)
AHCLKX0/AHCLKX2	2	IO	-	Y	McASP0 and McASP2 Transmit Master Clock
ACLKX0	142	IO	-	Y	McASP0 Transmit Bit Clock
AFSX0	144	IO	-	Y	McASP0 Transmit Frame Sync (L/R Clock)
AMUTE0	3	O	-	Y	McASP0 MUTE Output
AXR0[0]	113	IO	-	Y	McASP0 Serial Data 0
AXR0[1]	115	IO	-	Y	McASP0 Serial Data 1
AXR0[2]	116	IO	-	Y	McASP0 Serial Data 2
AXR0[3]	117	IO	-	Y	McASP0 Serial Data 3
AXR0[4]	119	IO	-	Y	McASP0 Serial Data 4
AXR0[5]/SPI1_SCS	120	IO	-	Y	McASP0 Serial Data 5 <b>or</b> SPI1 Slave Chip Select
AXR0[6]/SPI1_ENA	121	IO	-	Y	McASP0 Serial Data 6 <b>or</b> SPI1 Enable (Ready)
AXR0[7]/SPI1_CLK	122	IO	-	Y	McASP0 Serial Data 7 <b>or</b> SPI1 Serial Clock
AXR0[8]/AXR1[5]/SPI1_SOMI	126	IO	-	Y	McASP0 Serial Data 8 <b>or</b> McASP1 Serial Data 5 <b>or</b> SPI1 Data Pin Slave Out Master In
AXR0[9]/AXR1[4]/SPI1_SIMO	127	IO	-	Y	McASP0 Serial Data 9 <b>or</b> McASP1 Serial Data 4 <b>or</b> SPI1 Data Pin Slave In Master Out
AXR0[10]/AXR1[3]	130	IO	-	Y	McASP0 Serial Data 10 <b>or</b> McASP1 Serial Data 3
AXR0[11]/AXR1[2]	131	IO	-	Y	McASP0 Serial Data 11 <b>or</b> McASP1 Serial Data 2
AXR0[12]/AXR1[1]	134	IO	-	Y	McASP0 Serial Data 12 <b>or</b> McASP1 Serial Data 1
AXR0[13]/AXR1[0]	135	IO	-	Y	McASP0 Serial Data 13 <b>or</b> McASP1 Serial Data 0
AXR0[14]/AXR2[1]	137	IO	-	Y	McASP0 Serial Data 14 <b>or</b> McASP2 Serial Data 1
AXR0[15]/AXR2[0]	138	IO	-	Y	McASP0 Serial Data 15 <b>or</b> McASP2 Serial Data 0
ACLKR1	9	IO	-	Y	McASP1 Receive Bit Clock
AFSR1	12	IO	-	Y	McASP1 Receive Frame Sync (L/R Clock)
AHCLKX1	5	IO	-	Y	McASP1 Transmit Master Clock
ACLKX1	7	IO	-	Y	McASP1 Transmit Bit Clock
AFSX1	11	IO	-	Y	McASP1 Transmit Frame Sync (L/R Clock)
AMUTE1	4	O	-	Y	McASP1 MUTE Output
<b>SPI0, I2C0, and I2C1 Serial Port Pins</b>					
SPI0_SOMI/I2C0_SDA	111	IO	-	Y	SPI0 Data Pin Slave Out Master In <b>or</b> I2C0 Serial Data
SPI0_SIMO	110	IO	-	Y	SPI0 Data Pin Slave In Master Out
SPI0_CLK/I2C0_SCL	108	IO	-	Y	SPI0 Serial Clock <b>or</b> I2C0 Serial Clock
SPI0_SCS/I2C1_SCL	107	IO	-	Y	SPI0 Slave Chip Select <b>or</b> I2C1 Serial Clock
SPI0_ENA/I2C1_SDA	105	IO	-	Y	SPI0 Enable (Ready) <b>or</b> I2C1 Serial Data

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -5

### Q201 : D788E001BRFP266 (Audio DSP) -5/5

#### TERMINAL DESCRIPTION (3/3)

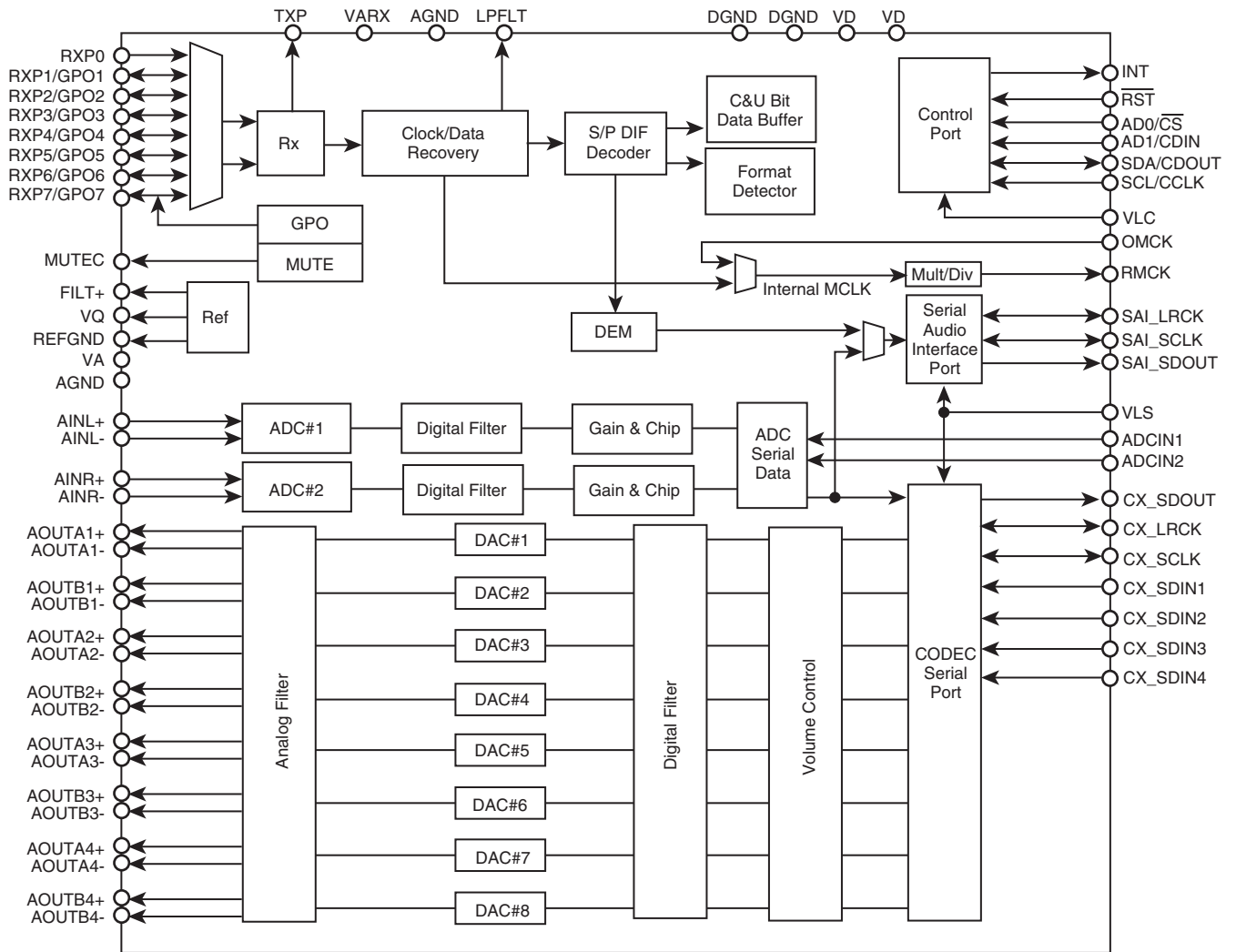
SIGNAL NAME	PIN NO.	TYPE <sup>(1)</sup>	PULL <sup>(2)</sup>	GPIO <sup>(3)</sup>	DESCRIPTION
<b>External Memory Interface (EMIF) Data Bus</b>					
EM_D[0]	52	IO	-	N	EMIF Data Bus [Lower 16 Bits]
EM_D[1]	51	IO	-	N	
EM_D[2]	49	IO	-	N	
EM_D[3]	48	IO	-	N	
EM_D[4]	46	IO	-	N	
EM_D[5]	45	IO	-	N	
EM_D[6]	43	IO	-	N	
EM_D[7]	41	IO	-	N	
EM_D[8]	66	IO	-	N	
EM_D[9]	64	IO	-	N	
EM_D[10]	63	IO	-	N	
EM_D[11]	61	IO	-	N	
EM_D[12]	59	IO	-	N	
EM_D[13]	58	IO	-	N	
EM_D[14]	56	IO	-	N	
EM_D[15]	55	IO	-	N	

SIGNAL NAME	PIN NO.	TYPE <sup>(1)</sup>	PULL <sup>(2)</sup>	GPIO <sup>(3)</sup>	DESCRIPTION
<b>Clocks</b>					
OSCIN	23	I	-	N	1.2-V Oscillator Input
OSCOUT	24	O	-	N	1.2-V Oscillator Output
OSCV <sub>DD</sub>	25	PWR	-	N	Oscillator 1.2-V V <sub>DD</sub> tap point (for filter only)
OSCV <sub>SS</sub>	22	PWR	-	N	Oscillator V <sub>SS</sub> tap point (for filter only)
CLKIN	17	I	-	N	Alternate clock input (3.3-V LVCMOS Input)
PLLHV	27	PWR	-	N	PLL 3.3-V Supply Input (requires external filter)
<b>Device Reset</b>					
RESET	14	I	-	N	Device reset pin
<b>Emulation/JTAG Port</b>					
TCK	35	I	IPU	N	Test Clock
TMS	19	I	IPU	N	Test Mode Select
TDI	28	I	IPU	N	Test Data In
TDO	29	OZ	IPU	N	Test Data Out
TRST	21	I	IPD	N	Test Reset
EMU[0]	32	IO	IPU	N	Emulation Pin 0
EMU[1]	34	IO	IPU	N	Emulation Pin 1
<b>Power Pins</b>					
Core Supply (CV <sub>DD</sub> )	8, 16, 20, 33, 44, 53, 57, 65, 77, 85, 90, 101, 123, 128, 132				
IO Supply (DV <sub>DD</sub> )	10, 31, 42, 50, 60, 68, 73, 81, 92, 103, 112, 125, 136				
Ground (V <sub>SS</sub> )	1, 6, 13, 15, 18, 26, 30, 36, 40, 47, 54, 62, 69, 72, 78, 82, 87, 95, 99, 106, 109, 114, 118, 124, 129, 133, 140				

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -6

## Q301 : CS42518 (8-ch CODEC with S/PDIF Receiver) -1/4

### BLOCK DIAGRAM

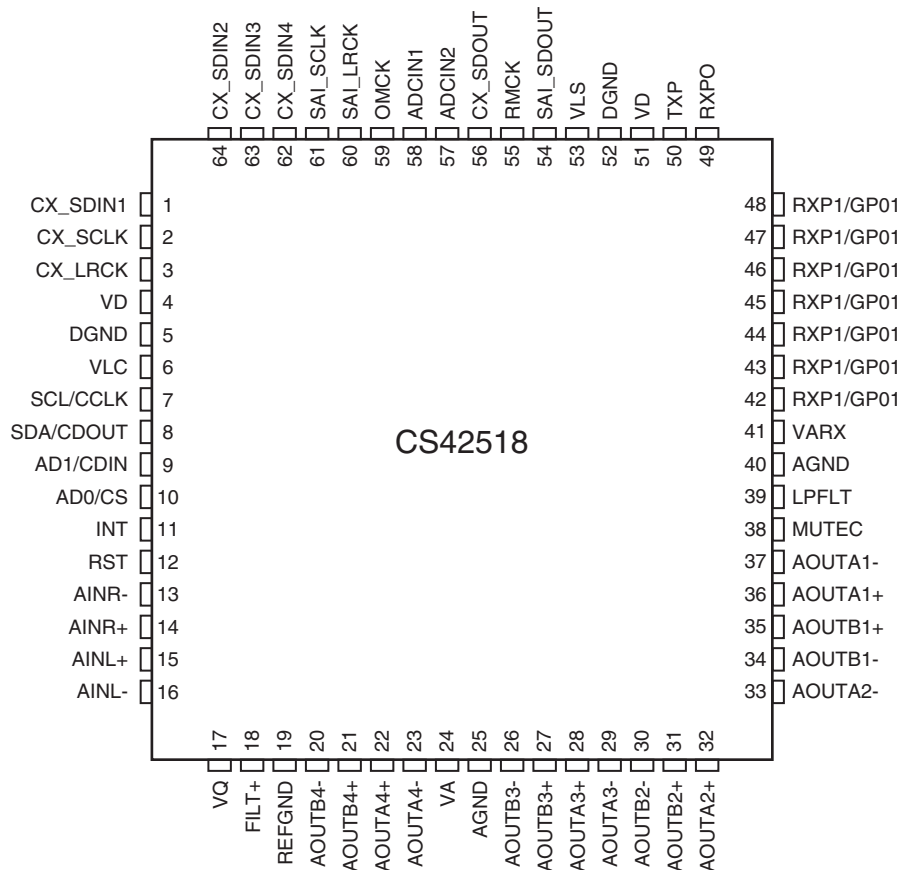




## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -7

### Q301 : CS42518 (8-ch CODEC with S/PDIF Receiver) -2/4

#### PIN LAYOUT



#### TERMINAL DESCRIPTION

Name	Pin No.	Function
CX_SDIN1 CX_SDIN2 CX_SDIN3 CX_SDIN4	1 64 63 62	Codec Serial Audio Data Input (Input) - Input for two's complement serial audio data.
CX_SCLK	2	CODEC Serial Clock (Input/Output) - Serial clock for the CODEC serial audio interface.
CX_LRCK	3	CODEC Left Right Clock (Input/ Output) - Determines which channel, Left or Right, is currently active on the CODEC serial audio data line.
VD	4 51	Digital Power (Input) - Positive power supply for the digital section.
DGND	5 52	Digital Ground (Input) - Ground reference. Should be connected to digital ground.
VLC	6	Control Port Power (Input) - Determines the required signal level for the control port.
SCL/CCLK	7	Serial Control Port Clock (Input) - Serial clock for the serial control port. Requires an external pull-up resistor to the logic interface voltage in I2C mode as shown in the Typical Connection Diagram.
SDA/CDOUT	8	Serial Control Data (Input/Output) - SDA is a data I/O line in IC mode and requires an external pull-up resistor to the logic interface voltage, as shown in the Typical connection Diagram. CDOUT is the output data line for the control port interface in SPI mode.
AD1/CDIN	9	Address Bit 1 (I2C)/Serial Control Data (SPI) (Input) - AD1 a chip address pin in I2C mode; CDIN is the input data line for control port interface in SPI mode.

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -8

### Q301 : CS42518 (8-ch CODEC with S/PDIF Receiver) -3/4

#### TERMINAL DESCRIPTION

Name	Pin No.	Function
AD0/CS	10	Address Bit 0 (I2C)/Control Port Chip Select (SPI) (INput) - AD0 is a chip address pin in I2C mode; CS is the chip select signal in SPI mode.
INT	11	Interrupt (Ooutput) - The CS42518 will generate an interrupt condition as per the Interrupt Mask register.
RST	12	Reset (Input) - The device enters a low power mode and all internal registers are reset to their default settings when low.
AINR- AINR+	13 14	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
AINL- AINL+	15 16	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
VQ	17	Quiescent Voltage (Output) - Filter connection for internal quiescent reference voltage.
FILT+	18	Positive Voltage Reference (Output) - Positive reference voltage for the internal sampling circuits.
REFGND	19	Reference Ground (Input) - Ground reference for the internal sampling circuits.
AOUTA1 +, - AOUTB1 +, - AOUTA2 +, - AOUTB2 +, - AOUTA3 +, - AOUTB3 +, - AOUTA4 +, - AOUTB4 +, -	36, 37 35, 34 32, 33 31, 30 28, 29 27, 26 22, 23 21, 20	Differential Analog Output (Output) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
VA VARX	24 41	Analog Power (Input) - Positive power supply for the analog section.
AGND	25 40	Analog Ground (Input) - Ground reference. Should be connected to analog ground.
MUTE_C	38	Mute Control (Output) - The Mute Control pin outputs high impedance following an initial power -on condition or whenever the PDN bit is set to a "1", forcing the codec into power -down mode. The signal will remain in a high impedance state as long as the part is in power-down mode. The Mute Control pin goes to the selected "active" state during reset, muting, or if the master clock to left/right clock frequency ratio is incorrect. This pin is intended to be used as a control for external mute circuits to prevent the clicks and pops that can occur in any single supply system. The use of external mute circuits are not mandatory but may be desired for designs requiring the absolute minimum in extraneous clicks and pops.
LPFLT	39	PLL Loop Filter (Output) - An RC network should be connected between this pin and ground.
RXP7/GPO7 RXP6/GPO6 RXP5/GPO5 RXP4/GPO4 RXP3/GPO3 RXP2/GPO2 RXP1/GPO1	42 43 44 45 46 47 48	S/PDIF Receiver Input/ General Purpose Output (Input/ Output) - Receiver inputs for S/PDIF encoded data. The CS42518 has an internal 8:2 multiplexer to select the active receiver port, according to the Receiver Mode Control 2 register. These pins can also be configured as general purpose output pins, ADC Overflow indicators or Mute Control outputs according to the RXP/General Purpose Pin Control registers.
RXP0	49	S/PDIF Receiver Input (Input) - Dedicated receiver input for S/PDIF encoded data.
TXP	50	S/PDIF Transmitter Output (Output) - S/PDIF encoded data output, mapped directly from one of the receiver inputs as indicated by the Receiver Mode Control 2 register.
VLP	53	Serial Port Interface Power (Input) - Determines the required signal level for the serial port interfaces.
SAI_SDOOUT	54	Serial Audio Interface Serial Data Output (Output) - Output for two's complement serial audio PCM data from the S/PDIF incoming stream. This pin can also be configured to transmit the output of the internal and external ADCs.
RMCK	55	Recovered Master Clock (Output) - Recovered master clock output from the External Clock Reference

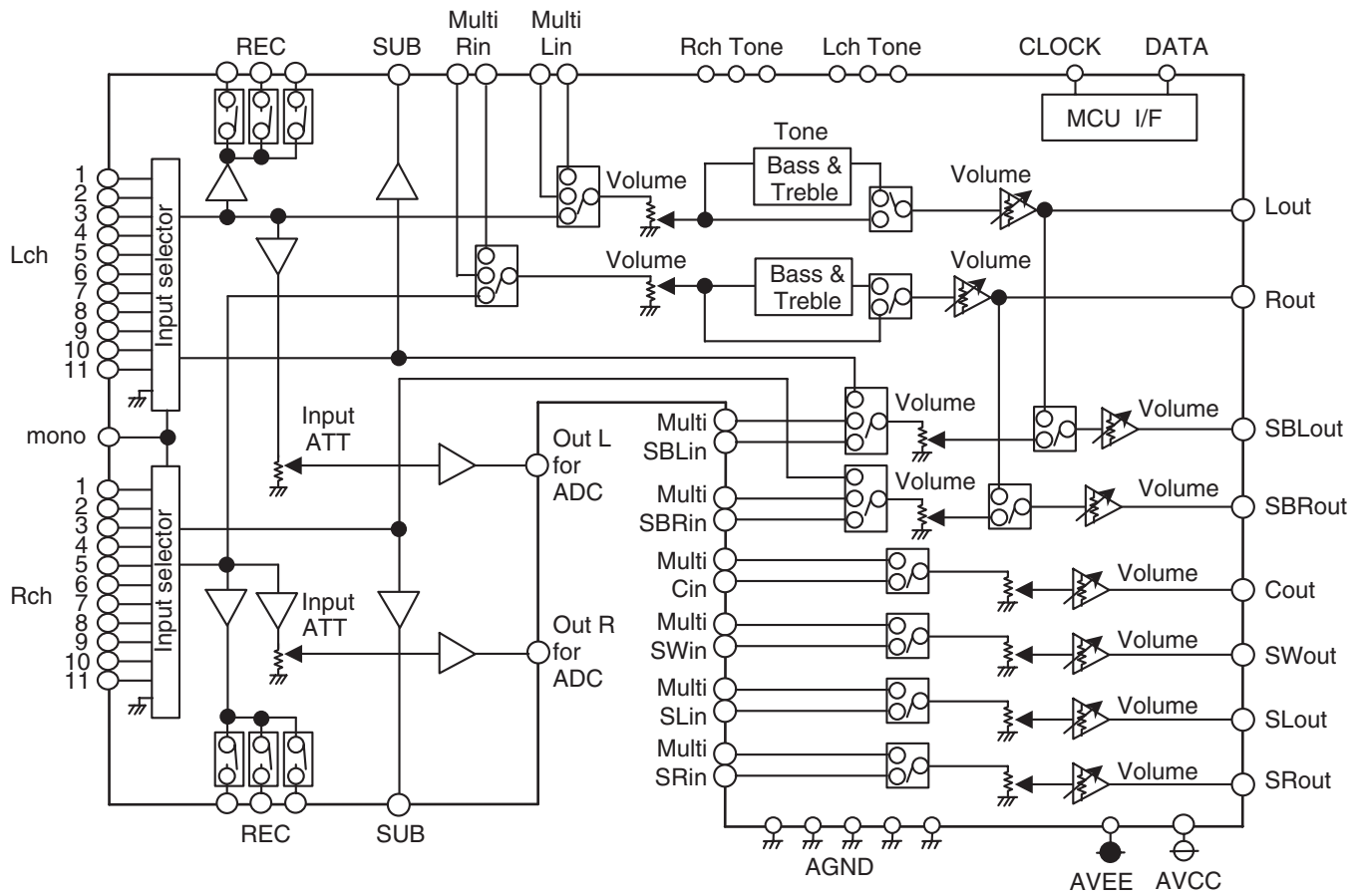
**IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -9****Q301 : CS42518 (8-ch CODEC with S/PDIF Receiver) -4/4****TERMINAL DESCRIPTION**

Name	Pin No.	Function
CL_SDOOUT	56	CODEC Serial Data Output (Output) - Output for two's complement serial audio data the internal and external ADCs.
ADCIN1 ADCIN2	58 57	External ADC Serial Input (Input) - The CS42518 provides for up two external stereo analog to digital converter inputs to provide a maximum of six channels on serial data output line when the CS42518 is placed in One Line mode.
OMCK	59	External Reference Clock (Input) - External clock reference that must be within the ranges specified in currently active on the serial audio data line.
SAI_LRCK	60	Serial Audio Interface Left/Right Clock (Input/Output) - Determines which channel, Left of Right, is currently active on the serial audio data line.
SAI_LRCK	61	Serial Audio Interface Serial Clock (Input/Output) - Serial clock for the Serial Audio Interface.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -10

Q5501 : R2S15211FP (8 ch Electronic Volume and 11 Input Selector and Tone Control) -1/3

SYSTEM DIAGRAM

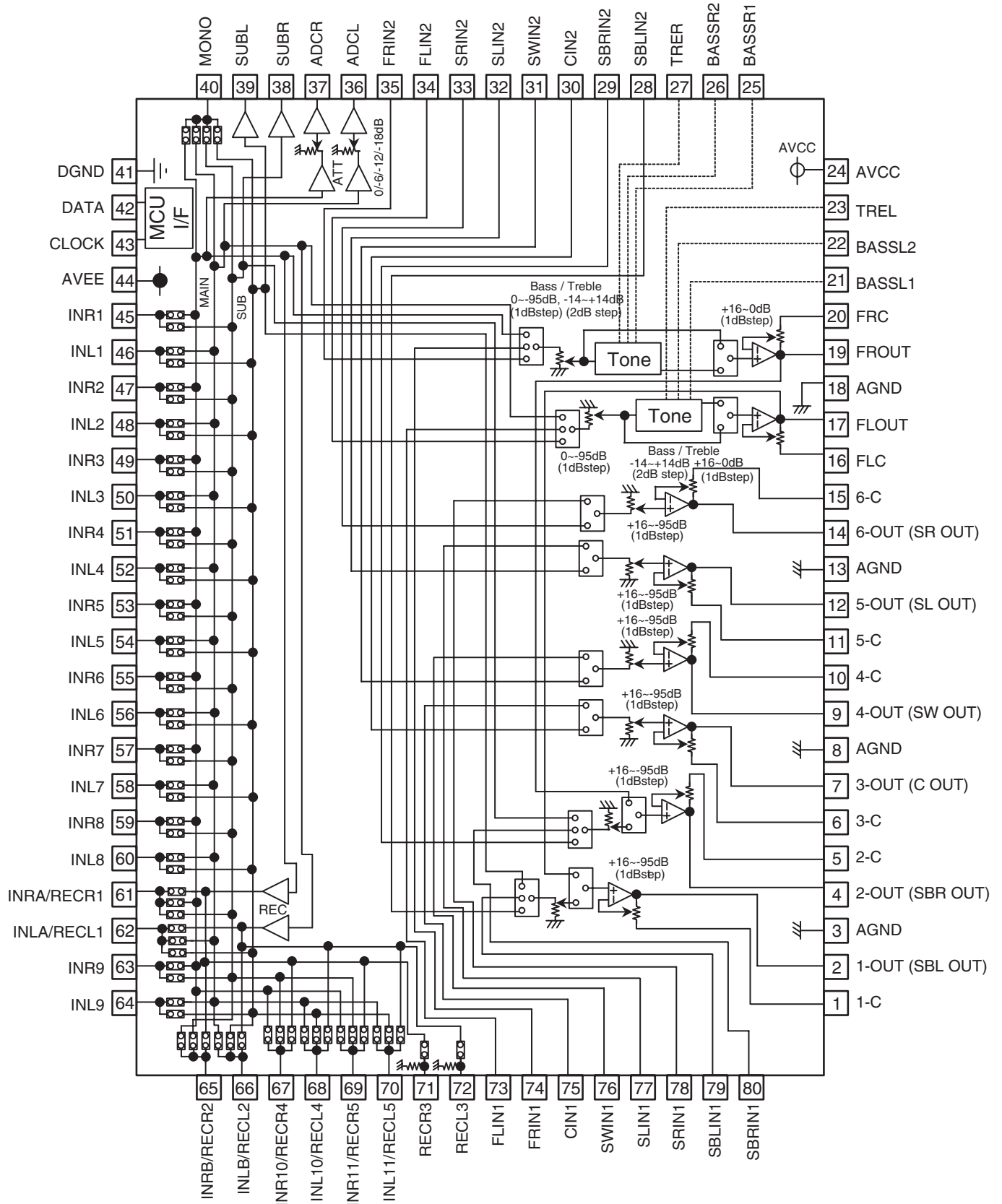




# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -11

## Q5501 : R2S15211FP (8 ch Electronic Volume and 11 Input Selector and Tone Control) -2/3

### BLOCK DIAGRAM



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -12

### Q5501 : R2S15211FP (8 ch Electronic Volume and 11 Input Selector and Tone Control) -3/3

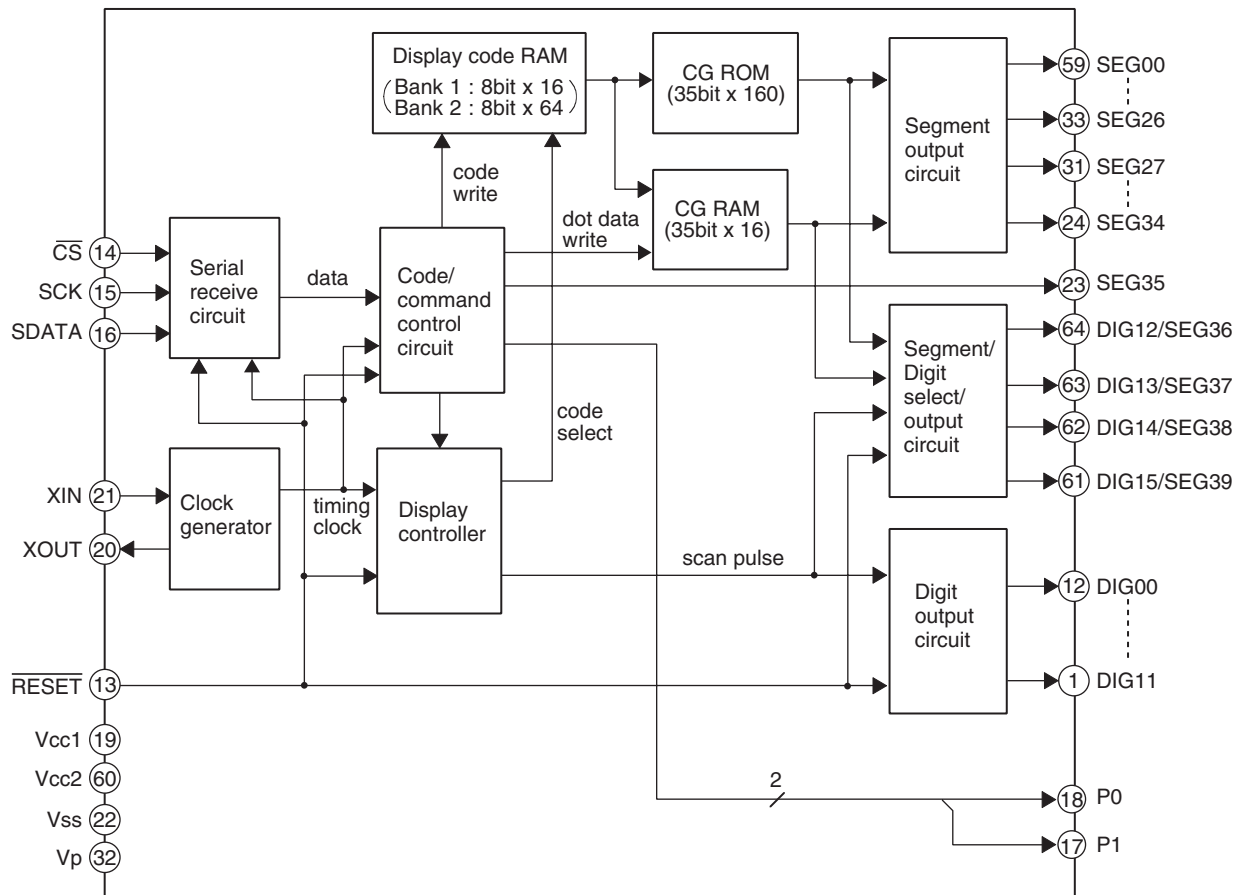
#### TERMINAL DESCRIPTION

PIN No.	Name	Function
19,17, 14,12, 9,7, 4,2	FROUT, FLOUT, 6-OUT, 5-OUT, 4-OUT, 3-OUT, 2-OUT, 1-OUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
20,16, 15,11, 10,6, 5,1	FRC, FLC, 6-C, 5-C, 4-C, 3-C, 2-C, 1-C	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
3,8, 13,18	AGND	Analog ground of internal circuit
23,27	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control(Treble)
21,22, 25,26	BASSL1, BASSL2 BASSR1, BASSR2	Frequency characteristic setting pin of L/R channel tone control(Bass)
24	AVCC	Positive power supply to internal circuit
35,34, 33,32, 31,30, 29,28	FRIN2, FLIN2, SRN2, SLIN2, SWIN2, CIN2, SBRIN2, SBLIN2	Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
73,74, 75,76, 77,78, 79,80	FLIN1, FRIN1, CIN1, SWIN1, SLIN1, SRIN1, SBLIN1, SBRIN1	
41	DGND	Digital ground of internal circuit
42	DATA	Input pin of control data
43	CLOCK	Input pin of control clock
44	AVEE	Negative power supply to internal circuit
46,48,50, 52,54,56, 58,60,64	INL1, INL2, INL3, INL4, INL5, INL6, INL7, INL8, INL9	Input pin of L/R channel (Input Selector)
45,47,49, 51,53,55, 57,59,63	INR1, INR2, INR3, INR4, INR5, INR6, INR7, INR8, INR9	
40	MONO	Input pin of monaural (Input Selector)
38,39	SUBL, SUBR	Output pin for L/R channel SUB Output
36,37	ADCL, ADCR	Output pin for L/R channel ADC
72	RECL3	Output pin for L/R channel REC Output
71	RECR3	
61,62, 65,66, 67,68, 69,70	INRA/RECR1, INLA/RECL1, INRB/RECR2, INLB/RECL2, INR10/RECR4, INL10/RECL4, INR11/RECR5, INL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R channel REC Output

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -13

### Q8503 : M66005-0001AHP (FL Tube Driver)

#### BLOCK DIAGRAM

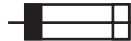


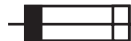
#### TERMINAL DESCRIPTION

PIN NO.	SYMBOL	PIN NAME	DESCRIPTION
13	$\overline{\text{RESET}}$	Reset input	This pin is used to initialize the internal state of the M66004.
14	$\overline{\text{CS}}$	Chip select input	"L" : Communication with the MCU is possible. "H" : Any instruction from the MCU is neglected.
15	SCK	Shift clock input	At the rising edge from "L" to "H", input data is shifted.
16	SDATA	Serial data input	Character code or command data to display is input from MSB.
21, 20	XIN, XOUT	Clock input Clock output	This pin is used to connect a resistor and a capacitor externally to set oscillation frequency.
1~12 61~64	DIG00 ~ DIG15	Digit output	These pins are used to connect to digit pins of VFD.
23~31 33~59	SEG00 ~ SEG39	Segment output	These pins are used to connect to segment pins of VFD.
17, 18	P0, P1		Output port (static operation)
19	VCC1		Positive power supply for internal logic.
60	VCC2		Positive power supply for high-pressure-resistant output port.
22	VSS		GND
32	VP		Negative power supply for VFD drive.

## SERVICE PROCEDURE

### 1. Replacing the fuse

 This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse , For fuse rating, refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce dernier est indique la qu le present symbol est apposse.

REF. NO.	PART NAME	DESCRIPTION	PART NO. (SN)	REMARKS
F901	FUSE	1A-SE-EAK FUSE	252070GR	⚠
F901 or	FUSE	1A-SE-TL250V	252271GR	⚠

### 2. To check versions of Main and DSP

- Press the [**STANDBY/ON**] button to turn on the unit.
- Set MASTER VOLUME value to 10.
- Press and hold down the [**INPUT**] button, then press the [**STANDBY/ON**] button.  
Main FW version will be shown. (Main : Main microprocessor)

FL display *Main1.00/08407A* \* It depends on the version.

- Press the [**LISTENING MODE**] button.  
DSP FW Version will be shown. (DSP : DSP ROM)

FL display *DSPHT205 : 08327A* \* It depends on the version.

- Press the [**STANDBY/ON**] button to put the unit into the Standby mode.
- Disconnect the power cord from the AC outlet.

### 3. To initialize the unit

- Press the [**STANDBY/ON**] button to turn on the unit.
- Press and hold down the [**LISTENING MODE**] button, then press the [**STANDBY/ON**] button.

FL display *Clear* ---> STANDBY

- Disconnect the power cord from the AC outlet.

## FIRMWARE UPDATE -1

### Main microprocessor

#### [How to Check Versions of Main and DSP]

1. Press **[STANDBY/ON]** button to turn on the unit.
2. Set MASTER VOLUME value to 10.
3. Hold down **[INPUT]** button and then press **[STANDBY/ON]** button.  
Main FW version will be shown. (Main : Main microprocessor)

Main1.00/08407A

\* It depends on the version.

4. Press **[LISTENING MODE]** button.  
DSP FW version will be shown. (DSP : DSP ROM)

DSPHT205 : 08327A

\* It depends on the version.

5. Press **[STANDBY/ON]** button to put the unit into the Standby mode.

#### [Preparation for Update (Main)]

##### <NOTE>

Customer settings will be overwritten by the default settings.

Audyssey 2EQ setting will be necessary again after update because EQ settings set by Audyssey 2EQ cannot be displayed to take a memo for manual setting.

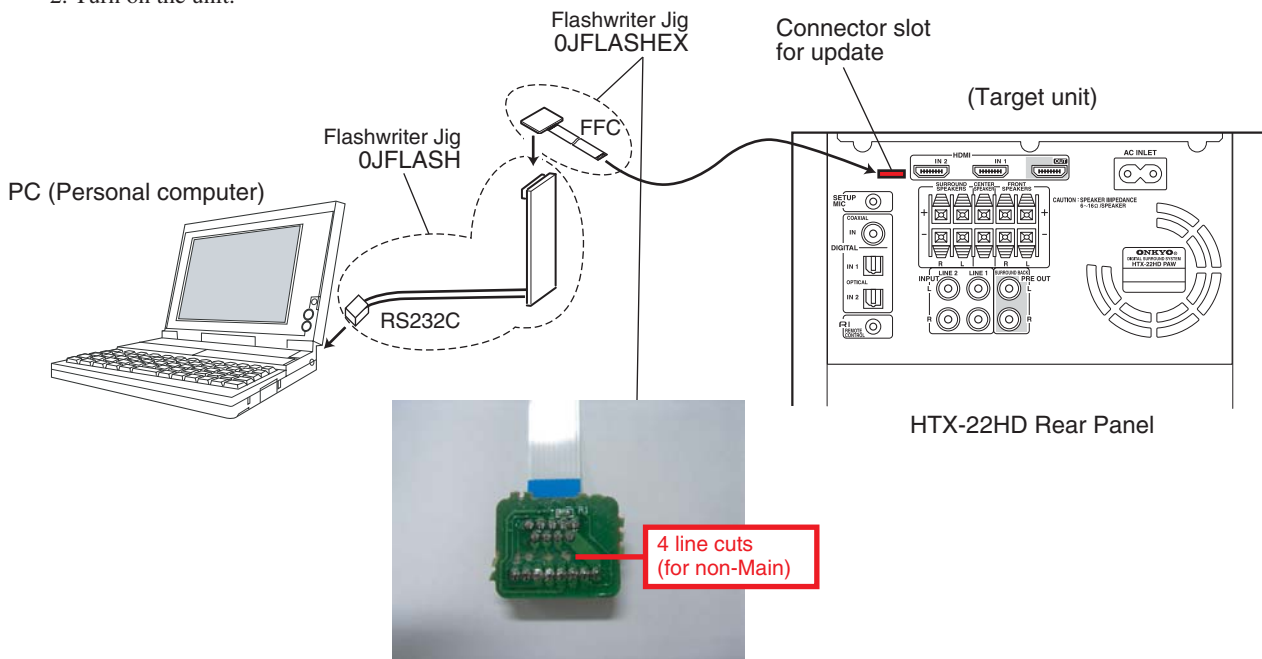
##### <Tool>

1. Personal computer(PC) : 1 (Windows XP or 2000)
2. Flashwriter jig : 1 each
  - (1) **0JFLASH** Part No. : 0JFLASH
  - (2) **0JFLASHEX** Part No. : 0JFLASHEX (for non-Main with 4 line cuts)
3. Writing soft : "Update\_DHT9HD\_M\_101.zip"(File name depends on the version.)  
Unzip "Update\_DHT9HD\_M\_101.zip" in advance.

\* For a writing soft, contact Onkyo or your local distributor.

##### <Connection>

1. While a target unit is off, connect RS-232 terminal of 0JFLASH to PC and insert FFC(9 contacts) of 0JFLASHEX to a connector slot on Rear Panel of the target unit.
2. Turn on the unit.



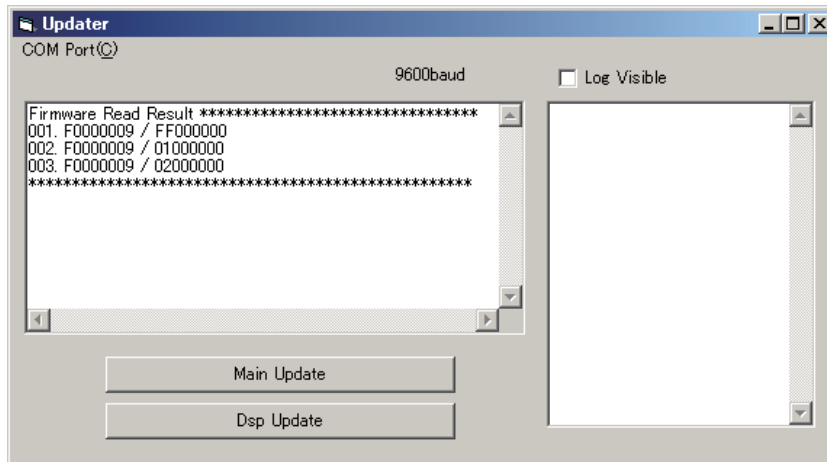


## FIRMWARE UPDATE -2

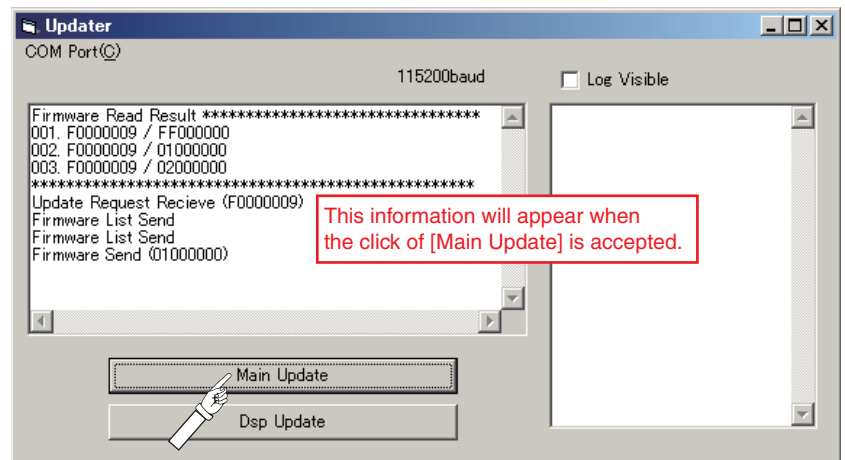
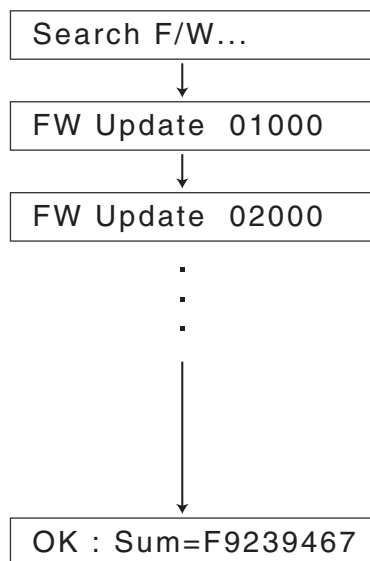
### Main microprocessor (Continued)

#### [Main Update Procedure]

1. Make sure that the unit is on.
2. Double-click "Update.exe" in the unzipped folder "Update\_DHT9HD\_M\_101".  
The following window will appear. (Folder name depends on the version.)



3. Click "Main Update" button to start update. It takes about 3 minutes.  
The message on Front Display will change as follows.



4. After update completes, the unit will not accept any operations. Unplug the power code and remove the jig from the unit.  
<NOTE>  
Customer settings will be overwritten by the default settings.  
Audyssey 2EQ setting will be necessary again after update because EQ settings set by Audyssey 2EQ cannot be displayed to take a memo for manual setting.
5. Turn on the unit and initialize it by holding down [LISTENING MODE] button and then pressing [STANDBY/ON] button.  
Confirm the new version number.

## FIRMWARE UPDATE -3

### DSP

#### [Preparation for Update (DSP)]

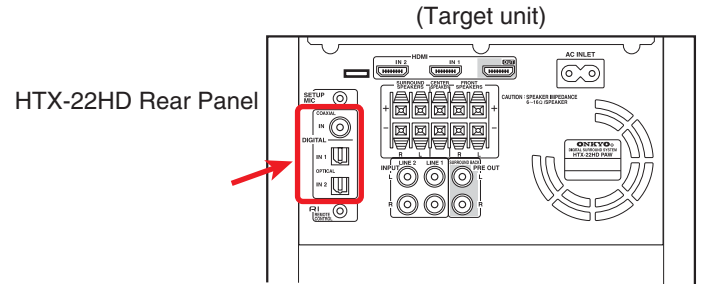
Update is done by playback of CD-R in a CD player.

#### <Tool>

1. Blank CD-R : 1 pc, PC (Personal computer with CD-R writer)
2. Writing soft : "CD\_DHT9HD0\_08618A.wav" (File name depends on the version.)  
<NOTE>Store the wav file in a blank CD-R as a music CD in advance.  
\* For a writing soft, contact Onkyo or your local distributor.
3. CD player with Optical or Coaxial output terminal : 1 pc  
<NOTE>Some CD players and a lot of DVD players process audio signal before output.  
Such players cannot be used for this update.
4. Optical cable or Coaxial cable : 1 pc

#### <Connection>

1. Connect a CD Player with a target unit via Optical Input 1 or Coaxial Input.
2. Turn on the unit and wait for more than 10 seconds.



#### [DSP Update Procedure]

1. Set MASTER VOLUME value to 10.
2. Hold down **[INPUT]** button and then press **[STANDBY/ON]** button.  
Main FW version will be displayed.

Main1.00/08407A

\* It depends on the version.

3. Press **[LISTENING MODE]** button.  
DSP FW version will be displayed.

DSPHT205 : 08327A

\* It depends on the version.

4. Press **[INPUT]** button 3 times, and the unit will be ready to receive data from CD player.

1st push 4D44K1N/2FF?x4



2nd push Digin: AUTO



3rd push S/PDIF Update..

5. Press **[PLAY]** on CD player. After playback ends (about 18 sec.), writing will start. It takes about 40 sec..

Writing...

#### <NOTE>

- (1) If the above message does not appear after waiting for a while, please try again.  
Some DVD players are not suitable for this update. If writing results in failure, use another model of player.
- (2) **DURING WRITING, DO NOT TURN OFF THE POWER and DO NOT DISCONNECT OPTICAL/COAXIAL CABLE.**  
If writing is stopped in the middle, Flash IC may need replacing.

6. After writing ends, the unit will be automatically initialized and put into the Standby mode.

Clear



Complete!



Standby mode

7. Turn on the unit and confirm the new version number.

**HTX-22HD****<Note>**

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

**NOTE : THE COMPONENTS IDENTIFIED BY THE MARK  
! ARE CRITICAL FOR RISK OF FIRE AND  
ELECTRIC SHOCK. REPLACE ONLY WITH PART  
NUMBER SPECIFIED.**

**EXPLODED VIEW PARTS LIST****AMPLIFIER SECTION**

	REF. NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
EXPLODED	A01	F BRACKET	---	1	27111468	
EXPLODED	A06	SCREW	2.6TTB+8B(3BC)	9	838426088GR	
EXPLODED	A08	SCREW	3TTB+8B(3BC)	7	838430088GR	
EXPLODED	A12	CHASSIS	---	1	27100520A	
EXPLODED	A16	CUSHION	20x20xt0.5	1	28141465GR	
EXPLODED	A20	SCREW	4TTC+8C(3BC)	4	830440089GR	
EXPLODED	A21	HEAT SINK	(244)	1	27160619	
EXPLODED	A22	TAPE	TAPE(CLOTH-8U)	(1)	29110082	
EXPLODED	A23	SCREW	3SMS8W.SW+14B(CU)	6	801634	
EXPLODED	A24	SCREW	3TTB+8B(3CM)SR	9	801637	
EXPLODED	A30	KNOB	(VOL)	1	28326513	
EXPLODED	A32	COVER	---	1	28184985B	
EXPLODED	A34	CUSHION	---	2	28141765	
EXPLODED	A39	B PLATE	---	1	28133424	
EXPLODED	A42	HOLDER	KGLS-10RT	5	27190428A	
EXPLODED	A45	RETAINER	(L)	1	27142062	
EXPLODED	A62	HOLDER	HOLDER KGLS-18S	1	27190470	
EXPLODED	A101	REAR PANEL	(HTX-22HD_MPB)	1	27123821B	
EXPLODED	A105	SCREW	3TTB+8B(3BC)	15	838430088GR	
EXPLODED	A106	SCREW	3P+6FN(3BC)	3	82143006GR	
EXPLODED	A107	SCREW	(FAN)	4	801643	
EXPLODED	A108	BUSHING	(FAN)	4	28170089A	
EXPLODED	A110	CLEAR PLT	(HTX-22HD_MPB)	1	28192206A	

EXPLODED	A130	CUSHION	(tr)	1	28141786	
EXPLODED	A132	CUSHION	(t5x150x40)	2	28141781	
EXPLODED	A134	CUSHION	(t8x15x10)	1	28141782	
EXPLODED	A800	TAPE	TAPE(CLOTH-16U)	(1)	29110083	
EXPLODED	E889	FAN	9S0612H405	1	24502329	!
EXPLODED	E890	WIRE TIE	BSK-1	1	260208	
EXPLODED	E892	IB CUSHION	W15*3t TAPE	(1)	28141585	
EXPLODED	F901	FUSE	1A-SE-EAK FUSE	1	252070GR	!
EXPLODED	F901 or	FUSE	1A-SE-TL250V	(1)	252271GR	!
EXPLODED	P8001	FFC	NCFC5-131012	1	2045131012	
EXPLODED	T901	P TRANS	NPT-1577P	1	2301947	!
EXPLODED	U01	AMPLIFIER PC board ass'y	NAAF-9566-1C*	1	1B216566-1C	
EXPLODED	U02	MICROPROCESSOR&DSP PC board ass'y	NAAR-9567-1C	1	1B216567-1C	
EXPLODED	U03	THERMAL SENSOR PC board ass'y	NAETC-9573-1C	1	---	NSP

EXPLODED	U04	HOLDER-S PC board	NAETC-9598-1C	1	---	NSP
EXPLODED	U05	HDMI PC board ass'y	NAVD-9568-1A*	1	1B216568-1A	
EXPLODED	U06	POWER TRANS. PC board ass'y	NAPS-9570-1C*	1	1B216570-1C	
EXPLODED	U07b	DISPLAY PC board ass'y	NADIS-9569-1C	1	1B216569-1C	
EXPLODED	U08b	SPEAKER TERMINAL PC board ass'y	NAAF-9592-1C	1	1B216592-1C	
EXPLODED	U09	HOLDER-A PC board ass'y	NAETC-9596-1C	1	---	NSP
EXPLODED	U10	HOLDER-B PC board ass'y	NAETC-9597-1C	1	---	NSP
EXPLODED	U11b	AC INLET PC board ass'y	NAPS-9595-1C	1	1B216595-1C	
EXPLODED	<b>SPEAKER SECTION</b>					
EXPLODED	<b>REF. NO.</b>	<b>PART NAME</b>	<b>DESCRIPTION</b>	<b>Q'TY</b>	<b>PART NO. (SN)</b>	<b>REMARKS</b>
EXPLODED	SP01	CABINET ASS'Y	(Without AMPLIFIER ASS'Y)	1	000-HTX22HDBCSE	
EXPLODED	SP05	SCREW	BLK-BIND HEAD 4 x 20mm (SP UNIT)	4	411-BG4020AB1	
EXPLODED	SP06	SCREW	BLK-BIND HEAD 3.5 x 16mm (AMP)	5	411-BG3516AB1	
EXPLODED	SP08	WOOFER UNIT	WF / W16146L	1	W16146L	
EXPLODED	SP09	CUSHION (EVA)	35L x 5W x 2t EVA BLACK	2	442-1021C1-00	
EXPLODED	SP10	CUSHION (EVA)	95L x 5W x 2t EVA BLACK	1	442-1021C2-00	
EXPLODED	SP11	CUSHION (HIMERON)	85L x 10W x 0.5t HIMERON BLACK	2	442-9501C2-00	
EXPLODED	SP12	NETWORK ASS'Y	UNIT-AMP : L370	1	310-DHT9HD-10	
EXPLODED	SP13	CLOTH FRAME ASS'Y	(FOR SUBWOOFER)(With BADGE)	1	D201-HT9B01B-50	
EXPLODED	SP14	BADGE	KURZ : SLM17300	1	213-HT9B01S-20	
EXPLODED	SP15	LICENSE LABEL (DIG)	(29390230)	1	625-HTX220-00	
EXPLODED	SP15 or	LABEL	LICENSE	(1)	29390230	
EXPLODED	SP21	FRONT SPEAKER ASS'Y - L&R	HTX-22HDSTB(White/Black)(Red/Black)	1	ANM5NS490-BM07	
EXPLODED	SP22	CLOTH FRAME ASS'Y	(FOR FRONT SPEAKER)(With BADGE)	2	ANK5NS490-BM01	
EXPLODED	SP23	BADGE	(ONKYO LOGO / SILVER)	2	BPL5001010002	

**HTX-22HD****PRINTED CIRCUIT BOARD PARTS LIST**

PWB1	<b>U01</b>	AMPLIFIER PC BOARD (NAAF-9566-1C)
PWB1	<b>U02</b>	MICROPROCESSOR&DSP PC BOARD (NAAR-9567-1C)
PWB1	<b>U03</b>	THERMAL SENSOR PC BOARD (NAETC-9573-1C)

PWB1	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
PWB1	U301	PHT CP	JSR1165-001recieving	1	24120143	
PWB1	U301 or	PHT CP	GPIFAV51RK0F	(1)	24120129	
PWB1	U302	PHT CP	JSR1165-001recieving	1	24120143	

PWB1	U302 or	PHT CP	GP1FAV51RK0F	(1)	24120129
PWB1	Q172	IC	TC7WU04FU(TE12L_F)	1	22240935R2
PWB1	Q201	IC	D788E001BRFP266	1	22242502R3
PWB1	Q202	IC	TC74VHC157FT	1	22274157ER2TO
PWB1	Q211	IC	TC74VHC541FT(EKJ)	1	22274541E1R2TO
PWB1	Q211 or	IC	SN74AHC541PWR	(1)	22274541IR2TI
PWB1	Q281	IC	M12L64164A-7TG	1	22242441R3
PWB1	Q281 or	IC	K4S641632K-UC60	(1)	22242462R2
PWB1	Q282	IC (DSP ROM)	ES29LV160ET-70TG(0284)	1	222W0069R302846
PWB1	Q282 or	IC (DSP ROM)	S29AL016D70TFI010(0284)	(1)	222W0063R302846
PWB1	Q301	IC	CS42518-CQZR-D	1	22242229R2
PWB1	Q303	IC	TC7WU04FU(TE12L_F)	1	22240935R2
PWB1	Q304	IC	74HCU04F	1	222740046R2
PWB1	Q305	IC	NJM2860F3-33	1	22242087R2



PWB1	Q306	IC	NJM4580M-D	1	22241448R2
PWB1	Q401	IC	NJM4580M-D	1	22241448R2
PWB1	Q402	IC	NJM4580M-D	1	22241448R2
PWB1	Q403	IC	NJM4580M-D	1	22241448R2
PWB1	Q404	IC	NJM4580M-D	1	22241448R2
PWB1	Q411	IC	NJM4580M-D	1	22241448R2
PWB1	Q421	IC	NJM4580M-D	1	22241448R2
PWB1	Q431	IC	NJM4580M-D	1	22241448R2
PWB1	Q701	IC (MAIN MICROPROCESSOR)	MPD70F3745GJ-GAE-AX(0283)	1	222W0089R302830
PWB1	Q702	IC	S-812C50AUA-C3E	1	222422240R2
PWB1	Q703	IC	S-812C33AUA-C2N	1	22242222R2
PWB1	Q705	IC	IS25C64A-2GLI	1	22242385R2
PWB1	Q706	TR	KRC104S	1	2216210R2
PWB1	Q706 or	TR	RN1404	(1)	2214490R2
PWB1	Q707	TR	DTA114EKA	1	2217050R2
PWB1	Q708	TR	DTC114YKA	1	2216470R2
PWB1	Q709	TR	DTC114YKA	1	2216470R2
PWB1	Q710	TR	DTA114EKA	1	2217050R2
PWB1	Q711	TR	DTC114YKA	1	2216470R2
PWB1	Q712	TR	KRC104S	1	2216210R2
PWB1	Q712 or	TR	RN1404	(1)	2214490R2
PWB1	Q713	TR	KRA102S	1	2216220R2
PWB1	Q713 or	TR	RN2402	(1)	2214530R2
PWB1	Q714	TR	KRC104S	1	2216210R2
PWB1	Q714 or	TR	RN1404	(1)	2214490R2
PWB1	Q715	TR	KRA102S	1	2216220R2
PWB1	Q715 or	TR	RN2402	(1)	2214530R2
PWB1	Q2001	IC	BD7820	1	22242300R2
PWB1	Q2002	IC	SI8008TM	1	22242323R2
PWB1	Q2003	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO
PWB1	Q2003 or	IC	BA33BC0FP	(1)	22278033DR2RH
PWB1	Q2003 or	IC	TA48033BF(TE16L_NQ)	(1)	22278033DBR2TO
PWB1	Q5001	IC	LM4766TF	1	22241927
PWB1	Q5001A	RETAINER	(IC)	1	27142109A
PWB1	Q5101	IC	LM4766TF	1	22241927
PWB1	Q5201	IC	LM2876TF	1	22241928
PWB1	Q5301	IC	LM3886TF	1	22242166

PWB1	Q5501	IC	R2S15211FP	1	22242297R3
PWB1	Q5503	IC	NJM4580M-D	1	22241448R2
PWB1	Q5600	TR	RN1441	1	2215410R2
PWB1	Q5601	TR	RN1441	1	2215410R2
PWB1	Q5602	TR	RN1441	1	2215410R2
PWB1	Q5603	TR	RN1441	1	2215410R2
PWB1	Q5604	TR	RN1441	1	2215410R2
PWB1	Q5605	TR	RN1441	1	2215410R2
PWB1	Q5606	TR	RN1441	1	2215410R2
PWB1	Q5607	TR	RN1441	1	2215410R2
PWB1	Q5610	TR	RN1441	1	2215410R2
PWB1	Q5611	TR	RN1441	1	2215410R2
PWB1	Q5612	TR	RN1441	1	2215410R2
PWB1	Q5613	TR	RN1441	1	2215410R2

PWB1	Q5614	TR	RN1441	1	2215410R2
PWB1	Q5615	TR	RN1441	1	2215410R2
PWB1	Q5616	TR	RN1441	1	2215410R2
PWB1	Q5617	TR	RN1441	1	2215410R2
PWB1	Q5630	IC	NJM4580M-D	1	22241448R2
PWB1	Q5670	IC	78M15HF(NJM78M15FA)	1	222780155JRC
PWB1	Q5670 or	IC	UPC78M15AHF-AZ	(1)	222780155NEC
PWB1	Q5670A	HEAT SINK	HEAT-SINK(RAD-078)	1	27160229
PWB1	Q5670B	SCREW	3P+6FN(3BC)	1	82143006GR
PWB1	Q5671	IC	79M15HF(NJM79M15FA)	1	222790155JRC
PWB1	Q5671 or	IC	UPC79M15HF-AZ	(1)	222790155NEC
PWB1	Q5671A	HEAT SINK	HEAT-SINK(RAD-078)	1	27160229
PWB1	Q5671B	SCREW	3P+6FN(3BC)	1	82143006GR
PWB1	Q5901	IC	LM61CIZ	1	22242212
PWB1	Q5901A	RETAINER	(PTH)	1	27141884-1
PWB1	Q9201	IC	78M05(NJM78M05FA)	1	222780055JRC
PWB1	Q9201 or	IC	78M05AHF(MPC78M05AHF)	(1)	222780055NEC
PWB1	Q9201A	HEAT SINK	RAD-153	1	27160484
PWB1	Q9201B	SCREW	3P+6FN(3BC)	1	82143006GR
PWB1	Q9202	TR	2SC2712-GR	1	2213145R2
PWB1	Q9202 or	TR	KTC3875-GR	(1)	2216175R2
PWB1	Q9203	TR	2SC2712-GR	1	2213145R2
PWB1	Q9203 or	TR	KTC3875-GR	(1)	2216175R2
PWB1	Q9204	TR	2SC2712-GR	1	2213145R2
PWB1	Q9204 or	TR	KTC3875-GR	(1)	2216175R2
PWB1	Q9205	TR	2SC2712-GR	1	2213145R2
PWB1	Q9205 or	TR	KTC3875-GR	(1)	2216175R2
PWB1	Q9206	TR	2SC2712-GR	1	2213145R2
PWB1	Q9206 or	TR	KTC3875-GR	(1)	2216175R2
PWB1	Q9207	TR	2SC2712-GR	1	2213145R2
PWB1	Q9207 or	TR	KTC3875-GR	(1)	2216175R2
PWB1	Q9301	TR	KRC102S	1	2216190R2
PWB1	Q9301 or	TR	RN1402	(1)	2214470R2
PWB1	Q9302	TR	KRC102S	1	2216190R2
PWB1	Q9302 or	TR	RN1402	(1)	2214470R2
PWB1	Q9303	TR	2SD1758-Q	1	2216912R2
PWB1	Q9304	TR	RN1441	1	2215410R2

PWB1	Q9305	TR	KRA102S	1	2216220R2
PWB1	Q9305 or	TR	RN2402	(1)	2214530R2
PWB1	Q9306	TR	KRC104S	1	2216210R2
PWB1	Q9306 or	TR	RN1404	(1)	2214490R2
PWB1	Q9307	TR	RN1441	1	2215410R2
PWB1	Q9308	IC	NJM4580M-D	1	22241448R2
PWB1	D301	C-DIODE	KDS4148U	1	223283R2
PWB1	D301 or	C-DIODE	1SS352	(1)	223234R2
PWB1	D301 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	D302	C-DIODE	KDS4148U	1	223283R2
PWB1	D302 or	C-DIODE	1SS352	(1)	223234R2
PWB1	D302 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	D601	C-DIODE	KDS4148U	1	223283R2
PWB1	D601 or	C-DIODE	1SS352	(1)	223234R2

PWB1	D601 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	D602	C-DIODE	KDS4148U	1	223283R2
PWB1	D602 or	C-DIODE	1SS352	(1)	223234R2
PWB1	D602 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	D2001	C-DIODE	1SR154-400	1	22380284R2
PWB1	D2002	C-DIODE	KDS4148U	1	223283R2
PWB1	D2002 or	C-DIODE	1SS352	(1)	223234R2
PWB1	D2002 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	D2003	C-DIODE	CRS09(TE85L_Q)	1	223274R2
PWB1	D2004	C-DIODE	KDS4148U	1	223283R2
PWB1	D2004 or	C-DIODE	1SS352	(1)	223234R2
PWB1	D2004 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	D2005	C-DIODE	1SR154-400	1	22380284R2
PWB1	D5301	C-DIODE	KDS4148U	1	223283R2
PWB1	D5301 or	C-DIODE	1SS352	(1)	223234R2
PWB1	D5301 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	D5671	ZENER D	MAZ8068-M	1	224750682R2
PWB1	D5671 or	ZENER D	UDZS6.8B	(1)	224550680R2
PWB1	D5672	ZENER D	MAZ8068-M	1	224750682R2
PWB1	D5672 or	ZENER D	UDZS6.8B	(1)	224550680R2
PWB1	D9204	DIODE	D3SBA20	1	22380271F
PWB1	D9204 or	DIODE	RBV402	(1)	22380022F
PWB1	D9204A	HEAT-SINK	HEAT-SINK(DX-200)	1	27160166
PWB1	D9204B	SCREW	3P+6FN(3BC)	1	82143006GR
PWB1	D9301	ZENER D	MAZ8075-M	1	224750752R2
PWB1	D9301 or	ZENER D	UDZS7.5B	(1)	224550750R2
PWB1	D9302	ZENER D	MAZ8075-M	1	224750752R2
PWB1	D9302 or	ZENER D	UDZS7.5B	(1)	224550750R2
PWB1	D9303	ZENER D	MAZ8051-M	1	224750512R2
PWB1	D9303 or	ZENER D	UDZS5.1B	(1)	224550510R2
PWB1	D9304	ZENER D	MAZ8075-M	1	224750752R2
PWB1	D9304 or	ZENER D	UDZS7.5B	(1)	224550750R2
PWB1	D9501	DIODE	RS1505M	1	22380308
PWB1	D9501A	HEAT SINK	RAD-135	1	27160465
PWB1	D9501B	SCREW	3P+6FN(3BC)	1	82143006GR
PWB1	D9502	C-DIODE	KDS4148U	1	223283R2
PWB1	D9502 or	C-DIODE	1SS352	(1)	223234R2

PWB1	D9502 or	C-DIODE	MA2J111	(1)	223279R2
PWB1	L201	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L202	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L203	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	L204	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L205	CHOKE COIL	LBC2518T470M	1	231364M470R2
PWB1	L241	EMIFIL	ACF451832-333-T	1	230978R2
PWB1	L281	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L282	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L283	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	L284	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	L301	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L302	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L303	CHOKE COIL	BLM21PG221SN1	1	230949R2



PWB1	L304	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L306	CHOKE COIL	LBC2518T470M	1	231364M470R2
PWB1	L307	CHOKE COIL	LBC2518T470M	1	231364M470R2
PWB1	L308	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
PWB1	L309	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
PWB1	L312	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L313	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L314	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L315	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L316	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L322	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L323	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L2001	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	L2002	CHOKE COIL	NCH-2541	1	231363K470
PWB1	L3601	CHOKE COIL	LBC2518T470M	1	231364M470R2
PWB1	L3602	CHOKE COIL	LBC2518T470M	1	231364M470R2
PWB1	L3603	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L3604	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	L7403	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB1	X172	CRYSTAL	XTL-17.73M	1	3010238
PWB1	X301	CRYSTAL	HC-49US24.576MHz	1	3010423T
PWB1	X701	CERA LOCK	CSTCR5M00G53-B0	1	3010356R2
PWB1	C201	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C202	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C203	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C204	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C205	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C206	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C207	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C208	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C209	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C210	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C211	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C212	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C213	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C214	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C215	C-CERA C	CK725F1E-104Z1	1	332161040R1

PWB1	C216	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C217	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C218	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C221	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C222	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C223	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C224	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C225	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C226	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C227	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C228	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C229	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C230	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C231	C-CERA C	CK725F1E-104Z1	1	332161040R1

PWB1	C232	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C233	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C234	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C235	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C238	C-CERA C	CC725CH1H-060D1	1	342100602R1
PWB1	C239	C-CERA C	CC725CH1H-060D1	1	342100602R1
PWB1	C241	UTSP C	CE04W10V-470M(UTSP)	1	397534717T
PWB1	C242	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C243	C-CERA C	CC725CH1H-102J1	1	342101024R1
PWB1	C244	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C245	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C246	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C247	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C248	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C249	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C250	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C251	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C252	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C281	UTSP C	CE04W10V-470M(UTSP)	1	397534717T
PWB1	C282	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C283	C-CERA C	CC725CH1H-102J1	1	342101024R1
PWB1	C284	UTSP C	CE04W10V-470M(UTSP)	1	397534717T
PWB1	C285	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C286	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C287	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C288	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C289	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C290	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C291	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C292	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C295	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C296	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C297	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C298	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C299	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C301	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C302	UTSP C	CE04W10V-100M(UTSP)	1	397531017T

PWB1	C303	UTSP C	CE04W10V-470M(UTSP)	1	397534717T
PWB1	C304	UTSP C	CE04W10V-470M(UTSP)	1	397534717T
PWB1	C305	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C306	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C307	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C308	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C309	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C310	C-CERA C	CC725CH1H-102J1	1	342101024R1
PWB1	C311	C-CERA C	CK725B1H-223K1	1	332102235R1
PWB1	C312	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C313	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C314	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C315	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C316	C-CERA C	CC725CH1H-221J1	1	342102214R1

PWB1	C318	C-CERA C	CC725CH1H-060D1	1	342100602R1
PWB1	C319	C-CERA C	CC725CH1H-060D1	1	342100602R1
PWB1	C320	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C321	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C322	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C325	C-CERA C	CC725CH1H-080D1	1	342100802R1
PWB1	C328	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C329	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C332	C-CERA C	CC725CH1H-680J1	1	342106804R1
PWB1	C333	C-CERA C	CC725CH1H-680J1	1	342106804R1
PWB1	C334	C-CERA C	CC725CH1H-680J1	1	342106804R1
PWB1	C336	C-CERA C	CK725B1C-104K1	1	332121045R1
PWB1	C337	C-CERA C	CK725B1C-104K1	1	332121045R1
PWB1	C351	C-CERA C	CC725CH1H-101J1	1	342101014R1
PWB1	C353	C-CERA C	CK725B1C-104K1	1	332121045R1
PWB1	C363	C-CERA C	CC725CH1H-101J1	1	342101014R1
PWB1	C364	C-CERA C	CC725CH1H-101J1	1	342101014R1
PWB1	C365	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C366	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C367	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C368	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C369	C-FILM C	ECHU50V-222J	1	373022224R2
PWB1	C370	C-FILM C	ECHU50V-222J	1	373022224R2
PWB1	C375	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C376	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C377	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C378	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C379	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C380	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C381	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C401	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C402	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C403	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C404	TF C	ECQ-V50V-333J	1	374723334T
PWB1	C405	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C406	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C407	TF C	ECQ-B50V-471J	1	374724714T

PWB1	C408	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C411	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C412	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C413	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C414	TF C	ECQ-V50V-473J	1	374724734T
PWB1	C415	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C416	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C417	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C418	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C421	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C422	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C423	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C424	TF C	ECQ-V50V-473J	1	374724734T
PWB1	C425	TF C	ECQ-B50V-151K	1	374721515T



PWB1	C426	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C427	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C428	TF C	ECQ-B50V-151K	1	374721515T
PWB1	C431	TF C	ECQ-B50V-122J	1	374721224T
PWB1	C432	TF C	ECQ-B50V-122J	1	374721224T
PWB1	C441	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C442	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C601	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C602	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C603	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T
PWB1	C605	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C606	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C607	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T
PWB1	C608	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C609	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C611	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB1	C615	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
PWB1	C616	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
PWB1	C622	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C623	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB1	C627	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB1	C628	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C631	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB1	C632	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB1	C634	UTSP C	CE04W25V-100M(UTSP)	1	397551017T
PWB1	C635	UTSP C	CE04W25V-100M(UTSP)	1	397551017T
PWB1	C636	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C637	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C638	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
PWB1	C639	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C2001	UTSP C	CE04W25V-100M(UTSP)	1	397551017T
PWB1	C2002	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C2003	C-CERA C	CK725B1H-223K1	1	332102235R1
PWB1	C2004	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C2005	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C2006	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
PWB1	C2007	C-CERA C	CK725F1E-104Z1	1	332161040R1

PWB1	C2008	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C2009	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C2010	UTSP C	CE04W10V-470M(UTSP)	1	397534717T
PWB1	C2011	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C2012	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C5001	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C5002	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
PWB1	C5003	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C5004	UTSP C	CE04W50V-47M(UTSP)	1	397584707T
PWB1	C5009	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C5010	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C5011	TF C	ECQ-V50V-104J	1	374721044T
PWB1	C5012	TF C	ECQ-V50V-104J	1	374721044T
PWB1	C5101	TF C	ECQ-B50V-471J	1	374724714T

PWB1	C5102	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5103	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C5104	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5109	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C5110	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C5111	TF C	ECQ-V50V-104J	1	374721044T
PWB1	C5112	TF C	ECQ-V50V-104J	1	374721044T
PWB1	C5201	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C5202	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5205	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C5206	TF C	ECQ-V50V-104J	1	374721044T
PWB1	C5301	TF C	ECQ-B50V-471J	1	374724714T
PWB1	C5302	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5305	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
PWB1	C5306	TF C	ECQ-V50V-104J	1	374721044T
PWB1	C5307	C-CERA C	CC725CH1H-102J1	1	342101024R1
PWB1	C5503	C-CERA C	CC725CH1H-221J1	1	342102214R1
PWB1	C5504	C-CERA C	CC725CH1H-221J1	1	342102214R1
PWB1	C5505	C-CERA C	CC725CH1H-221J1	1	342102214R1
PWB1	C5506	C-CERA C	CC725CH1H-221J1	1	342102214R1
PWB1	C5507	C-CERA C	CC725CH1H-221J1	1	342102214R1
PWB1	C5508	C-CERA C	CC725CH1H-221J1	1	342102214R1
PWB1	C5551	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5552	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5553	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5554	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5555	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5556	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5557	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5558	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5565	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5566	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5569	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5570	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5571	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5572	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5573	UTSP C	CE04W25V-47M(UTSP)	1	397554707T

PWB1	C5574	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5575	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5576	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C5590	C-CERA C	CC725CH1H-330J1	1	342103304R1
PWB1	C5591	C-CERA C	CC725CH1H-330J1	1	342103304R1
PWB1	C5600	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5601	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5602	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5603	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5604	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5605	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5606	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5607	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5630	UTSP C	CE04W25V-47M(UTSP)	1	397554707T

PWB1	C5631	TF C	ECQ-B50V-221K	1	374722215T
PWB1	C5632	C-FILM C	ECHU16V-103J	1	373041034R2
PWB1	C5641	TF C	ECQ-V50V-474J	1	374724744T
PWB1	C5642	UTSP C	CE04W50V-1M(UTSP)	1	397580107T
PWB1	C5666	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
PWB1	C5667	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
PWB1	C5670	C-CERA C	CK725F1H-104Z1	1	332151040R1
PWB1	C5671	C-CERA C	CK725F1H-104Z1	1	332151040R1
PWB1	C5672	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C5673	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C5674	UTSP C	CE04W16V-470M(UTSP)	1	397544717T
PWB1	C5675	UTSP C	CE04W16V-470M(UTSP)	1	397544717T
PWB1	C5677	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C5678	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C7422	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C7423	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C7424	C-CERA C	CC725CH1H-101J1	1	342101014R1
PWB1	C9201	TF C	ECQ-V50V-334J	1	374723344T
PWB1	C9202	VR C	CE04W16V-10000M(VR)	1	394641037S
PWB1	C9203	C-CERA C	CK725B1H-223K1	1	332102235R1
PWB1	C9204	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C9301	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C9302	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C9303	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB1	C9304	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB1	C9305	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C9306	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
PWB1	C9307	C-CERA C	CC725CH1H-101J1	1	342101014R1
PWB1	C9308	C-CERA C	CC725CH1H-330J1	1	342103304R1
PWB1	C9309	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C9310	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C9311	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
PWB1	C9312	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
PWB1	C9501	TF C	ECQ-V50V-334J	1	374723344T
PWB1	C9502	TF C	ECQ-V50V-334J	1	374723344T
PWB1	C9503	ELECT C	CE69W35V-8200M	1	3504465
PWB1	C9504	ELECT C	CE69W35V-8200M	1	3504465

PWB1	C9505	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB1	R200	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R201	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R202	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R203	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R204	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R205	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R206	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R207	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R208	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R209	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R210	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R211	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R212	C-R NET	RM7LJ330X04	1	43484733004R2



PWB1	R213	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R214	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R215	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R216	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R217	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R218	C-R NET	RM7LJ330X04	1	43484733004R2
PWB1	R221	C-CARBON R	RN72K1J-750JE	1	435037504R1
PWB1	R250	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R251	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R252	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R253	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R254	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R255	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R256	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R257	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R258	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R259	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R260	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R261	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R262	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R263	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R264	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R265	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R266	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R267	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R268	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R269	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R270	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R272	C-CARBON R	RN72K1J-105JE	1	435031054R1
PWB1	R273	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R281	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R282	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R283	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R284	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R285	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R286	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R287	C-CARBON R	RN72K1J-103JE	1	435031034R1

PWB1	R288	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R289	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R290	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R301	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R302	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R303	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R304	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R305	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R306	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R307	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R308	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R309	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R310	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R312	EMIFIL	BK1608LM182-T	1	230958R1

PWB1	R313	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R314	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R315	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R316	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R317	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R318	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R319	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R320	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R321	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R324	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R325	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R326	C-CARBON R	RN72K1J-105JE	1	435031054R1
PWB1	R327	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R331	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R332	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R333	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R334	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R337	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R339	C-CARBON R	RN72K1J-823JE	1	435038234R1
PWB1	R341	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R342	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R351	C-CARBON R	RN72K1J-750JE	1	435037504R1
PWB1	R353	C-CARBON R	RN72K1J-100JE	1	435031004R1
PWB1	R355	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R361	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R362	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R363	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R364	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R365	C-CARBON R	RN72K1J-560JE	1	435035604R1
PWB1	R366	C-CARBON R	RN72K1J-560JE	1	435035604R1
PWB1	R367	C-CARBON R	RN72K1J-560JE	1	435035604R1
PWB1	R368	C-CARBON R	RN72K1J-560JE	1	435035604R1
PWB1	R371	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R372	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R401	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R402	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R403	C-CARBON R	RN72K1J-332JE	1	435033324R1

PWB1	R404	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R405	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R406	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R407	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R408	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R411	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R412	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R413	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R414	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R415	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R416	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R417	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R418	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R421	C-CARBON R	RN72K1J-681JE	1	435036814R1

PWB1	R422	C-CARBON R	RN72K1J-681JE	1	435036814R1
PWB1	R423	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R424	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R425	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R426	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R427	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R428	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R431	C-CARBON R	RN72K1J-681JE	1	435036814R1
PWB1	R432	C-CARBON R	RN72K1J-681JE	1	435036814R1
PWB1	R433	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R434	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R435	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R436	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R437	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R438	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R441	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R442	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R443	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R444	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R445	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R446	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R447	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R448	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R451	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R452	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R453	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R454	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R455	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R456	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R457	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R458	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R461	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R462	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R463	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R464	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R465	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R466	C-CARBON R	RN72K1J-181JE	1	435031814R1

PWB1	R467	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R468	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R471	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R472	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R473	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R474	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R475	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R476	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R477	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R478	C-CARBON R	RN72K1J-181JE	1	435031814R1
PWB1	R481	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R482	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R491	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R492	C-CARBON R	RN72K1J-103JE	1	435031034R1



PWB1	R501	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R502	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R511	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R512	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R521	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R522	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R531	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R532	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R541	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R542	C-CARBON R	RN72K1J-223JE	1	435032234R1
PWB1	R551	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R552	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R561	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R562	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R591	METAL O R	RS1/2WBJ-22	1	443522204T
PWB1	R592	METAL O R	RS1/2WBJ-22	1	443522204T
PWB1	R601	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R606	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R607	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R608	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R609	C-CARBON R	RN72K1J-105JE	1	435031054R1
PWB1	R612	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R613	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R614	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R619	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R620	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R621	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R637	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R639	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R640	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R641	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R642	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R646	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R647	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R648	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R649	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R650	C-CARBON R	RN72K1J-470JE	1	435034704R1

PWB1	R651	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R652	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R653	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R654	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R655	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R656	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R657	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R658	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R661	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R662	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R663	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R664	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R665	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R666	C-CARBON R	RN72K1J-103JE	1	435031034R1

PWB1	R669	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R670	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R671	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R672	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R673	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R674	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R677	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R678	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R681	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R682	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R683	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R686	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R689	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R690	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R691	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R692	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R693	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R694	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R695	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R707	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R708	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R709	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R710	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R711	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R712	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R713	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R714	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R715	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R720	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R721	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R723	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R725	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R726	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R727	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R729	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R733	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R734	C-CARBON R	RN72K1J-102JE	1	435031024R1

PWB1	R735	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R736	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R737	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R740	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R744	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R747	C-CARBON R	RN72K1J-333JE	1	435033334R1
PWB1	R748	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R749	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R751	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R752	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R754	C-CARBON R	RN72K1J-272JE	1	435032724R1
PWB1	R755	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R756	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R757	C-CARBON R	RN72K1J-221JE	1	435032214R1

PWB1	R760	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R761	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R766	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R767	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R769	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R770	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R771	C-CARBON R	RN72K1J-273JE	1	435032734R1
PWB1	R772	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R773	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R774	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R776	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R781	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R782	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R783	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R787	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R788	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R789	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R790	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R791	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R792	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R793	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R794	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R795	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R796	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R797	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R798	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R2004	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2005	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2006	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2007	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2008	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R2009	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2010	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2011	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R2012	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2013	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB1	R2014	C-CARBON R	RN72K1J-331JE	1	435033314R1

PWB1	R2015	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2016	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R2017	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2018	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R2019	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2020	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R2021	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2022	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R2023	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2024	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R2025	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2026	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R2027	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R2028	EMIFIL	BK1608LM182-T	1	230958R1

PWB1	R2029	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R2030	C-CARBON R	RN72K1J-333JE	1	435033334R1
PWB1	R2031	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB1	R2032	C-CARBON R	RN72K1J-393JE	1	435033934R1
PWB1	R2033	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R2034	C-CARBON R	RN72K1J-393JE	1	435033934R1
PWB1	R2035	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R2036	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB1	R2037	C-CARBON R	RN72K1J-333JE	1	435033334R1
PWB1	R2038	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R5001	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5002	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R5003	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5004	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5005	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R5006	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5007	C-CARBON R	RN72K1J-563JE	1	435035634R1
PWB1	R5008	C-CARBON R	RN72K1J-563JE	1	435035634R1
PWB1	R5009	C-CARBON R	RN72K1J-123JE	1	435031234R1
PWB1	R5010	C-CARBON R	RN72K1J-123JE	1	435031234R1
PWB1	R5011	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5012	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5013	C-CARBON R	RN72K3A-047JE	1	435320474R2
PWB1	R5014	C-CARBON R	RN72K3A-047JE	1	435320474R2
PWB1	R5101	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5102	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R5103	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5104	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5105	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R5106	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5107	C-CARBON R	RN72K1J-563JE	1	435035634R1
PWB1	R5108	C-CARBON R	RN72K1J-563JE	1	435035634R1
PWB1	R5109	C-CARBON R	RN72K1J-123JE	1	435031234R1
PWB1	R5110	C-CARBON R	RN72K1J-123JE	1	435031234R1
PWB1	R5111	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5112	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5113	C-CARBON R	RN72K3A-047JE	1	435320474R2



PWB1	R5114	C-CARBON R	RN72K3A-047JE	1	435320474R2
PWB1	R5201	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5202	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R5203	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5204	C-CARBON R	RN72K1J-563JE	1	435035634R1
PWB1	R5205	C-CARBON R	RN72K1J-123JE	1	435031234R1
PWB1	R5206	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5207	METAL R	RNU1/2WCJ-4.7	1	453530474T
PWB1	R5301	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5302	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R5303	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R5304	C-CARBON R	RN72K1J-563JE	1	435035634R1
PWB1	R5305	C-CARBON R	RN72K1J-123JE	1	435031234R1
PWB1	R5306	C-CARBON R	RN72K1J-222JE	1	435032224R1

PWB1	R5307	METAL R	RNU1/2WCJ-4.7	1	453530474T
PWB1	R5503	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R5504	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R5505	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R5506	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R5507	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5508	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5510	C-CARBON R	RN72K1J-022JE	1	435030224R1
PWB1	R5543	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5544	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5545	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5546	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5547	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5548	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5578	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R5579	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5587	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5588	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5590	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5591	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5592	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R5593	C-CARBON R	RN72K1J-122JE	1	435031224R1
PWB1	R5594	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5595	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5596	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R5597	C-CARBON R	RN72K1J-122JE	1	435031224R1
PWB1	R5598	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5599	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5600	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5601	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5602	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5603	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5604	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5605	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5606	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5607	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5610	C-CARBON R	RN72K1J-271JE	1	435032714R1

PWB1	R5611	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5612	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5613	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5614	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5615	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5616	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5617	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R5620	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5621	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5622	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5623	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5624	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5625	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5626	C-CARBON R	RN72K1J-101JE	1	435031014R1

PWB1	R5627	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB1	R5630	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R5631	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R5632	C-CARBON R	RN72K1J-153JE	1	435031534R1
PWB1	R5633	C-CARBON R	RN72K1J-122JE	1	435031224R1
PWB1	R5634	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5641	C-CARBON R	RN72K1J-681JE	1	435036814R1
PWB1	R5642	C-CARBON R	RN72K1J-681JE	1	435036814R1
PWB1	R5643	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R5666	METAL O R	RS1/2WBJ-150	1	443521514T
PWB1	R5667	METAL O R	RS1/2WBJ-150	1	443521514T
PWB1	R5680	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5681	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5683	METAL O R	RS1WBJ-150	1	443621514T
PWB1	R5684	METAL O R	RS1WBJ-150	1	443621514T
PWB1	R5685	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R5687	METAL R	RNU1/2WCJ-6.8	1	453530684T
PWB1	R5688	METAL O R	RS1WBJ-22	1	443622204T
PWB1	R5689	METAL O R	RS1WBJ-22	1	443622204T
PWB1	R5690	METAL R	RNU1/2WCJ-6.8	1	453530684T
PWB1	R5691	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5692	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5693	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5694	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5695	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5696	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5697	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5698	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5699	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R5700	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R7123	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R9205	METAL O R	RS1/2WBJ-47	1	443524704T
PWB1	R9206	METAL O R	RS1/2WBJ-47	1	443524704T
PWB1	R9207	METAL O R	RS1/2WBJ-47	1	443524704T
PWB1	R9208	METAL O R	RS1/2WBJ-47	1	443524704T
PWB1	R9209	METAL R	RNU1/2WCJ-2.2	1	453530224T
PWB1	R9210	C-CARBON R	RN72K1J-222JE	1	435032224R1

PWB1	R9211	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R9212	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9213	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R9214	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9215	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R9216	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9217	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R9218	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9219	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R9220	METAL O R	RS1WBJ-470	1	443624714T
PWB1	R9221	C-CARBON R	RN72K1J-560JE	1	435035604R1
PWB1	R9302	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9303	METAL O R	RS1/2WBJ-100	1	443521014T
PWB1	R9305	C-CARBON R	RN72K1J-103JE	1	435031034R1

PWB1	R9306	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R9307	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R9308	EMIFIL	BK1608LM182-T	1	230958R1
PWB1	R9309	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB1	R9310	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R9311	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB1	R9312	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R9313	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB1	R9314	C-CARBON R	RN72K1J-333JE	1	435033334R1
PWB1	R9315	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB1	R9316	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R9317	C-CARBON R	RN72K1J-224JE	1	435032244R1
PWB1	R9318	C-CARBON R	RN72K1J-104JE	1	435031044R1
PWB1	R9319	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB1	R9320	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R9321	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R9322	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R9323	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB1	R9324	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9325	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9326	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB1	R9328	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R9329	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R9330	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	R9331	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB1	R9332	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB1	RL5301	RELAY	NRL-2P5A-DC09-163	1	25065635
PWB1	RL5301 or	RELAY	NRL-2P5A-DC9-141	(1)	25065585
PWB1	RL9501	RELAY	NRL-1P10A-DC12-140	1	25065584
PWB1	RL9502	RELAY	NRL-1P10A-DC12-140	1	25065584
PWB1	P307	PIN JACK	NPJ-1PDBL291	1	25045473
PWB1	P704A	PLUG	NPLG-11P0966	1	25056016
PWB1	P705A	PLUG	NPLG-11P0966	1	25056016
PWB1	P706A	PLUG	NPLG-11P0966	1	25056016
PWB1	P712	ST JACK	MSJ-035-22	1	25045887
PWB1	P712 or	JACK	YKB21-5130	(1)	25045387
PWB1	P4101A	SOCKET	NSCT-13P2193	1	25052296

PWB1	P4101B	PLUG	NPLG-13P0968	1	25056018	
PWB1	P4102A	SOCKET	NSCT-13P2193	1	25052296	
PWB1	P4102B	PLUG	NPLG-13P0968	1	25056018	
PWB1	P5001B	SOCKET AS	NSAS-10P1744	1	2009991120BUL	
PWB1	P5101B	PLUG	NPLG-5P119	1	25055135	
PWB1	P5201B	PLUG	NPLG-2P116	1	25055132	
PWB1	P5302	PLUG	NPLG-2P149	1	25055165	
PWB1	P7902	PIN JACK	NPJ-6PDWWWRRR561	1	25045779	
PWB1	P7902 or	PIN JACK	NPJ-6PDBL159	(1)	25045300	
PWB1	P8001B	SOCKET	NSCT-13P2210	1	25052313	
PWB1	P8602	SOCKET AS	NSAS-4P1777	1	2009991137UL	
PWB1	P9102A	PLUG	NPLG-15P667	1	25055711	
PWB1	P9102B	SOCKET	NSCT-15P1030	1	25051240	
PWB1	P9301	PLUG	NPLG-2P83	1	25055099	

PWB1	P9303	ST JACK	YKB21-5352N	1	25045903	
PWB1	P9304	TRM(SCREW)	NEJITANSI M3	1	25065425	
PWB1	P9305	WS CLAMP	CB-71694(L=30)	1	260260	
PWB1	P9306	TRM	NTM-1P233(M1969)	1	25060302	
PWB1	P9307	TRM	NTM-1P232(M1700)	1	25060301	
PWB1	P9501B	PLUG	NPLG-4P151	1	25055167	
PWB1	P9801	RETAINER	(BUS)	1	27142108	
PWB1	P9802	RETAINER	(BUS)	1	27142108	
PWB1	P9803	RETAINER	(BUS)	1	27142108	
PWB1	P9804	RETAINER	(BUS)	1	27142108	
PWB1	F5001	FUSE	3.5A-UL/T-251	1	252370T	
PWB1	J5001	JMP WIRE	TA125	1	78005	
PWB1	J5002	JMP WIRE	TA125	1	78005	
PWB1	J5003	JMP WIRE	TA075	1	78003	
PWB1	J5004	JMP WIRE	TA200	1	78008	
PWB1	J5005	JMP WIRE	TA100	1	78004	
PWB1	J5006	JMP WIRE	TA100	1	78004	
PWB1	J5007	JMP WIRE	TA100	1	78004	
PWB1	J5008	JMP WIRE	TA050	1	78002	
PWB1	J5009	JMP WIRE	TA125	1	78005	
PWB1	J5010	JMP WIRE	TA175	1	78007	
PWB1	J5011	JMP WIRE	TA200	1	78008	
PWB1	J5012	JMP WIRE	TA125	1	78005	
PWB1	J5013	JMP WIRE	TA075	1	78003	
PWB1	J5014	JMP WIRE	TA050	1	78002	
PWB1	J5015	JMP WIRE	TA250	1	78010	
PWB1	J5016	JMP WIRE	TA225	1	78009	
PWB1	J5017	JMP WIRE	TA125	1	78005	
PWB1	JL5901	JUMPER LEAD	JL3 150 B(6-6)(3J150606B15)	1	---	NSP
PWB1	JL5901A	WIRE HOL	NSCT-3P874	1	25051087	
PWB1	JL5901B	WIRE TRAP	NPLG-3P586	1	25055624	
PWB1	JL5902	CRIMP AS	---	1	2067712180UL	
PWB1	JL9004B	SOCKET	NSCT-7P99	1	25050271	
PWB1	JL9103B	WIRE TRAP	NPLG-5P588	1	25055626	
PWB2	<b>U05</b>	HDMI PC BOARD (NAVD-9568-1A)				
PWB2	<b>CIRCUIT NO.</b>	<b>PART NAME</b>	<b>DESCRIPTION</b>	<b>Q'TY</b>	<b>PART NO. (SN)</b>	<b>REMARKS</b>



PWB2	Q8161	IC	TA48018AF(TE16L_NQ)	1	22278018DR2TO
PWB2	Q8162	IC	SII9185ACTU	1	22242471R3
PWB2	Q8305	IC	S-812C50BUC-C5ET2G	1	22242407R2
PWB2	Q8306	IC	TC7SZ08FU(TE85L_F)	1	22242071R2TO
PWB2	Q8309	TR ARRAY	UM6K1N	1	226066R2
PWB2	Q8309 or	TR ARRAY	UPA672T	(1)	226067R2
PWB2	Q8401	IC	SII9134CTU	1	22242394R3
PWB2	Q8404	IC	XC6213B182MR	1	22242443R2
PWB2	Q8405	IC	SN74CB3Q3305PWR	1	22242258R2
PWB2	Q8501	IC	SII9135CTU	1	22242393R3
PWB2	Q8501 or	IC	SII9135ACTU	(1)	22242576R3
PWB2	Q8593	IC	SI8008TM	1	22242323R2
PWB2	Q8595	IC	TA48018AF(TE16L_NQ)	1	22278018DR2TO
PWB2	Q8651	IC	TA48018AF(TE16L_NQ)	1	22278018DR2TO

PWB2	Q8651 or	IC	UPC2918T-E1-AZ	(1)	22278018ER2NE
PWB2	Q8652	IC	XC6213B332MR	1	22242277R2
PWB2	Q8653	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO
PWB2	Q8653 or	IC	TA48033BF(TE16L_NQ)	(1)	22278033DBR2TO
PWB2	Q8654	IC	TA48018AF(TE16L_NQ)	1	22278018DR2TO
PWB2	Q8655	IC	TC74VHC541FT(EKJ)	1	22274541E1R2TO
PWB2	Q8655 or	IC	SN74AHC541PWR	(1)	22274541IR2TI
PWB2	D8301	DIODE	DAN217T146	1	223285R2
PWB2	D8302	C-DIODE	KDS4148U	1	223283R2
PWB2	D8302 or	C-DIODE	1SS352	(1)	223234R2
PWB2	D8302 or	C-DIODE	MA2J111	(1)	223279R2
PWB2	D8591	C-DIODE	CRS09(TE85L_Q)	1	223274R2
PWB2	X8501	CRYSTAL	HC-49-28.332MHz	1	3010417R2
PWB2	L8161	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8162	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8163	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8401	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8402	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8403	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8404	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8405	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8406	C-R NET	MNR12E0APJ000	1	43464900002R2
PWB2	L8407	C-R NET	MNR12E0APJ000	1	43464900002R2
PWB2	L8408	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8409	C-R NET	MNR12E0APJ000	1	43464900002R2
PWB2	L8410	C-R NET	MNR12E0APJ000	1	43464900002R2
PWB2	L8505	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8507	CHOKE COIL	NCH-2541	1	231363K470
PWB2	L8508	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8601	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8602	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8603	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8604	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8605	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8606	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8607	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB2	L8608	EMIFIL	BK1608LL241-T	1	230959R1

PWB2	C8161	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8162	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
PWB2	C8164	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8165	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8166	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8167	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8168	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8169	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8170	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8171	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8172	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8173	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8174	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8175	C-CERA C	CK725F1E-104Z1	1	332161040R1

PWB2	C8176	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8177	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8178	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8179	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8180	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8181	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8182	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8326	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8327	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8328	CHIP ELECT C	CEWX16V-22M	1	398142207R2
PWB2	C8329	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8330	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8401	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8402	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8403	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8404	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8405	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8406	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8408	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8409	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8410	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8411	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8412	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8413	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8414	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8415	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8416	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8417	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8418	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8419	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8420	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8421	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8422	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8423	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8424	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8425	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8426	C-CERA C	CK725F1A-105Z1	1	332181050R1

PWB2	C8427	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8428	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8429	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8430	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8431	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8432	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8433	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8434	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8435	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8436	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8437	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8441	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8442	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8443	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2

PWB2	C8444	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8501	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8502	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8503	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8504	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8505	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8506	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8507	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8508	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8509	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8510	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8511	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8512	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8513	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8514	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8515	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8516	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8517	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8518	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8519	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8520	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8521	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8522	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8523	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8524	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8529	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8530	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8531	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8532	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8533	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8534	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8535	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8536	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8537	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8538	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8539	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8540	C-CERA C	CK725F1A-105Z1	1	332181050R1

PWB2	C8541	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8542	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8543	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8544	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8545	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8546	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8547	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8548	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8549	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8550	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8551	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8552	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8553	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8554	C-CERA C	CK725F1A-105Z1	1	332181050R1

PWB2	C8555	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8556	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8557	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8558	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8559	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8560	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8561	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8562	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8563	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8564	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8565	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8566	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8567	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8568	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8569	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8570	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8571	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	C8572	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8573	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8574	C-CERA C	CC725CH1H-070D1	1	342100702R1
PWB2	C8575	C-CERA C	CC725CH1H-070D1	1	342100702R1
PWB2	C8577	C-CERA C	CK725B1H-102K1	1	332101025R1
PWB2	C8601	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8602	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
PWB2	C8603	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8604	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8605	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2
PWB2	C8606	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8607	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
PWB2	C8608	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8609	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
PWB2	C8675	CHIP ELECT C	CEWX4V-100M	1	3981G1017R2
PWB2	C8676	C-CERA C	CK725F1A-105Z1	1	332181050R1
PWB2	C8679	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
PWB2	C8680	CHIP ELECT C	CEWT6.3V-470M	1	395724717R2
PWB2	C8682	C-CERA C	CK725B1H-223K1	1	332102235R1
PWB2	C8683	CHIP ELECT C	CEWT16V-470M	1	395744717R2



PWB2	C8684	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8702	C-CERA C	CK725F1E-104Z1	1	332161040R1
PWB2	C8703	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2
PWB2	R8109	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB2	R8110	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8113	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB2	R8123	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB2	R8129	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB2	R8130	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8160	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB2	R8161	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB2	R8162	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB2	R8163	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB2	R8164	C-CARBON R	RN72K1J-222JE	1	435032224R1

PWB2	R8165	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB2	R8323	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB2	R8324	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8325	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB2	R8326	C-CARBON R	RN72K1J-473JE	1	435034734R1
PWB2	R8334	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB2	R8335	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB2	R8341	C-CARBON R	RN72K2E-101JE	1	435221014R1
PWB2	R8401	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8402	C-CARBON R	RN72K1J-220JE	1	435032204R1
PWB2	R8403	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8404	C-CARBON R	RN72K1J-220JE	1	435032204R1
PWB2	R8405	C-CARBON R	RN72K1J-220JE	1	435032204R1
PWB2	R8408	C-CARBON R	RN72K1J-220JE	1	435032204R1
PWB2	R8409	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8410	C-CARBON R	RN72K1J-681JE	1	435036814R1
PWB2	R8411	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8414	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8415	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8416	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8417	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8418	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8419	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8420	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8421	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8422	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8423	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8424	C-R NET	RM7LJ220X04	1	43484722004R2
PWB2	R8425	C-CARBON R	RN72K1J-220JE	1	435032204R1
PWB2	R8426	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB2	R8427	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB2	R8429	C-CARBON R	RN72K1J-220JE	1	435032204R1
PWB2	R8431	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8432	C-CARBON R	RN72K1J-220JE	1	435032204R1
PWB2	R8442	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB2	R8501	C-CARBON R	RN72K1J-330JE	1	435033304R1
PWB2	R8502	C-CARBON R	RN72K1J-330JE	1	435033304R1

PWB2	R8503	C-CARBON R	RN72K1J-330JE	1	435033304R1
PWB2	R8504	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8505	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8506	C-CARBON R	RN72K1J-120JE	1	435031204R1
PWB2	R8507	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8508	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8509	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8510	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8511	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8512	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8513	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8514	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8515	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8516	C-CARBON R	RN72K1J-101JE	1	435031014R1

PWB2	R8517	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB2	R8518	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8519	C-CARBON R	RN72K1J-470JE	1	435034704R1
PWB2	R8520	C-CARBON R	RN72K1J-330JE	1	435033304R1
PWB2	R8521	C-CARBON R	RN72K1J-330JE	1	435033304R1
PWB2	R8522	C-R NET	RM7LJ330X04	1	43484733004R2
PWB2	R8523	C-CARBON R	RN72K1J-330JE	1	435033304R1
PWB2	R8524	C-CARBON R	RN72K1J-330JE	1	435033304R1
PWB2	R8591	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB2	R8592	C-CARBON R	RN72K1J-333JE	1	435033334R1
PWB2	R8593	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB2	R8594	C-CARBON R	RN72K1J-152JE	1	435031524R1
PWB2	R8629	C-CARBON R	RN72K1J-562JE	1	435035624R1
PWB2	R8630	C-CARBON R	RN72K1J-562JE	1	435035624R1
PWB2	R8633	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB2	R8662	C-CARBON R	RN72K1J-105JE	1	435031054R1
PWB2	R8665	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB2	R8666	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8667	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8668	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8669	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8670	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8671	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8672	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8673	EMIFIL	BK1608LM182-T	1	230958R1
PWB2	R8674	C-CARBON R	RN72K1J-472JE	1	435034724R1
PWB2	R8675	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB2	R8676	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB2	R8677	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB2	R8678	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB2	R8679	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB2	R8680	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB2	P702A	SOCKET	NSCT-9P2243	1	25052346
PWB2	P704B	SOCKET	NSCT-11P2191	1	25052294
PWB2	P705B	SOCKET	NSCT-11P2191	1	25052294
PWB2	P706B	SOCKET	NSCT-11P2191	1	25052294
PWB2	P8101	SOCKET	YKF45-7037V	1	25053253R3

PWB2	P8121	SOCKET	YKF45-7037V	1	25053253R3	
PWB2	P8302	SOCKET	YKF45-7037V	1	25053253R3	
PWB2	P8602B	PLUG	NPLG-2P349	1	25055366	
PWB2	P8603	TRM(SCREW)	NEJITANSI M3	1	25065425	
PWB2	P8604	TRM(SCREW)	NEJITANSI M3	1	25065425	
PWB2	P8605	WS CLAMP	CB-71694(L=30)	1	260260	
PWB3	<b>U06</b>	POWER TRANS. PC BOARD (NAPS-9570-1C)				
PWB3	<b>U07b</b>	DISPLAY PC BOARD (NADIS-9586-1C)				
PWB3	<b>U08b</b>	SPEAKER TERMINAL PC BOARD (NAAF-9593-1C)				
PWB3	<b>U09</b>	HOLDER-A PC BOARD (NAETC-9596-1C)				
PWB3	<b>U10</b>	HOLDER-B PC BOARD (NAETC-9597-1C)				
PWB3	<b>U11b</b>	AC INLET PC BOARD (NAPS-9595-1C)				
PWB3	<b>CIRCUIT NO.</b>	<b>PART NAME</b>	<b>DESCRIPTION</b>	<b>Q'TY</b>	<b>PART NO. (SN)</b>	<b>REMARKS</b>

PWB3	U8541	REMO SENS	GPIUX511RK	1	241370
PWB3	Q8502	FL TUBE	16-ST-97GNK	1	212270
PWB3	Q8502A	HOLDER	(FL)	1	27191281
PWB3	Q8503	IC	M66005-0001AHP	1	22242208R3
PWB3	Q8504	TR	2SC2712-GR	1	2213145R2
PWB3	Q8505	TR	2SC2713-GR(TE85R_F)	1	2213135R2
PWB3	Q9001	TR	KRC105S	1	2217290R2
PWB3	Q9001 or	TR	RN1405	(1)	2214500R2
PWB3	Q9101	TR	2SC2235-O(TPE6_F)	1	2211653T
PWB3	D5851	C-DIODE	KDS4148U	1	223283R2
PWB3	D5851 or	C-DIODE	1SS352	(1)	223234R2
PWB3	D5851 or	C-DIODE	MA2J111	(1)	223279R2
PWB3	D5852	C-DIODE	KDS4148U	1	223283R2
PWB3	D5852 or	C-DIODE	1SS352	(1)	223234R2
PWB3	D5852 or	C-DIODE	MA2J111	(1)	223279R2
PWB3	D5853	C-DIODE	KDS4148U	1	223283R2
PWB3	D5853 or	C-DIODE	1SS352	(1)	223234R2
PWB3	D5853 or	C-DIODE	MA2J111	(1)	223279R2
PWB3	D8502	ZENER D	MAZ8082-M	1	224750822R2
PWB3	D8502 or	ZENER D	UDZS8.2B	(1)	224550820R2
PWB3	D8651	LED	SLI-343URC-TE7	1	225449T
PWB3	D8652	ZENER D	UDZS3.9B	1	224550390R2
PWB3	D9001	C-DIODE	KDS4148U	1	223283R2
PWB3	D9001 or	C-DIODE	1SS352	(1)	223234R2
PWB3	D9001 or	C-DIODE	MA2J111	(1)	223279R2
PWB3	D9002	DIODE	RL1N4003	1	22380260T
PWB3	D9003	DIODE	RL1N4003	1	22380260T
PWB3	D9004	C-DIODE	KDS4148U	1	223283R2
PWB3	D9004 or	C-DIODE	1SS352	(1)	223234R2
PWB3	D9004 or	C-DIODE	MA2J111	(1)	223279R2
PWB3	D9005	C-DIODE	KDS4148U	1	223283R2
PWB3	D9005 or	C-DIODE	1SS352	(1)	223234R2
PWB3	D9005 or	C-DIODE	MA2J111	(1)	223279R2
PWB3	D9006	C-DIODE	S1NB60-4062	1	22380318R2
PWB3	D9007	ZENER D	MAZ8043-M	1	224750432R2
PWB3	D9007 or	ZENER D	UDZS4.3B	(1)	224550430R2
PWB3	D9008	DIODE	RL1N4003	1	22380260T

PWB3	D9009	DIODE	RL1N4003	1	22380260T
PWB3	D9105	ZENER D	MAZ8180-M	1	224751802R2
PWB3	D9105 or	ZENER D	UDZS18B	(1)	224551800R2
PWB3	D9112	DIODE	RL1N4003	1	22380260T
PWB3	D9113	ZENER D	MAZ8180-M	1	224751802R2
PWB3	D9113 or	ZENER D	UDZS18B	(1)	224551800R2
PWB3	L5851	S COIL	S-1.3C	1	231176S
PWB3	L5852	S COIL	S-1.3C	1	231176S
PWB3	L5853	S COIL	S-1.3C	1	231176S
PWB3	L5854	S COIL	S-1.3C	1	231176S
PWB3	L5855	S COIL	S-1.3C	1	231176S
PWB3	L8531	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB3	L8532	CHOKE COIL	BLM21PG221SN1	1	230949R2
PWB3	L9001	CHOKE COIL	NCH-3581	1	231301

PWB3	T9002	P TRANS	NPT-1520GQ	1	2301813A	!
PWB3	C5851	C-CERA C	CC725CH1H-102J1	1	342101024R1	
PWB3	C5852	C-CERA C	CC725CH1H-102J1	1	342101024R1	
PWB3	C5853	C-CERA C	CC725CH1H-102J1	1	342101024R1	
PWB3	C5854	TF C	ECQ-B50V-102J	1	374721024T	
PWB3	C5855	TF C	ECQ-B50V-102J	1	374721024T	
PWB3	C5856	TF C	ECQ-B50V-102J	1	374721024T	
PWB3	C5857	TF C	ECQ-B50V-103J	1	374721034T	
PWB3	C5858	TF C	ECQ-B50V-103J	1	374721034T	
PWB3	C5859	TF C	ECQ-B50V-103J	1	374721034T	
PWB3	C5860	TF C	ECQ-B50V-103J	1	374721034T	
PWB3	C5861	TF C	ECQ-B50V-103J	1	374721034T	
PWB3	C5862	TF C	ECQ-B50V-102J	1	374721024T	
PWB3	C5863	TF C	ECQ-B50V-102J	1	374721024T	
PWB3	C5864	C-CERA C	CC725CH1H-102J1	1	342101024R1	
PWB3	C8501	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8502	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8503	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PWB3	C8504	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PWB3	C8505	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PWB3	C8507	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PWB3	C8508	ELECT C	CE04W6.3V-100M	1	355721019T	
PWB3	C8509	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8510	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8511	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8512	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8513	ELECT C	CE04W50V-33M	1	355783309T	
PWB3	C8514	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8515	ELECT C	CE04W16V-100M	1	355741019T	
PWB3	C8516	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8517	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8521	C-CERA C	CC725CH1H-102J1	1	342101024R1	
PWB3	C8522	C-CERA C	CC725CH1H-102J1	1	342101024R1	
PWB3	C8531	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8532	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8541	ELECT C	CE04W6.3V-100M	1	355721019T	
PWB3	C8543	C-CERA C	CK725B1H-102K1	1	332101025R1	



PWB3	C8544	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PWB3	C8545	ELECT C	CE04W50V-10M	1	355781009T	
PWB3	C9001	IS C	DE1007E472M-KY	1	3300063	!
PWB3	C9002	IS C	DE1007E472M-KY	1	3300063	!
PWB3	C9003	IS C	MKP R46 103M	1	3500202S	!
PWB3	C9004	TF C	ECQ-V50V-104J	1	374721044T	
PWB3	C9005	TF C	ECQ-B50V-223J	1	374722234T	
PWB3	C9006	VR C	CE04W16V-2200M(VR)	1	394642227S	
PWB3	C9007	VR C	CE04W16V-470M(VR)	1	394644717T	
PWB3	C9009	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T	
PWB3	C9104	VR C	CE04W63V-470M(VR)	1	394674717S	
PWB3	C9105	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PWB3	C9106	C-CERA C	CK725B1H-223K1	1	332102235R1	
PWB3	C9110	TF C	ECQ-V50V-473J	1	374724734T	

PWB3	R0051	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0052	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0053	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0054	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0055	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0056	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0057	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0058	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R0059	C-CARBON R	RN72K1J-000JE	1	435030004R1
PWB3	R5851	METAL O R	RS1/2WBJ-10	1	443521004T
PWB3	R5852	METAL O R	RS1/2WBJ-10	1	443521004T
PWB3	R5853	METAL O R	RS1/2WBJ-10	1	443521004T
PWB3	R5854	METAL O R	RS1/2WBJ-10	1	443521004T
PWB3	R5855	METAL O R	RS1/2WBJ-10	1	443521004T
PWB3	R8501	C-CARBON R	RN72K1J-104JE	1	435031044R1
PWB3	R8502	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB3	R8503	C-CARBON R	RN72K1J-332JE	1	435033324R1
PWB3	R8504	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB3	R8505	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB3	R8506	C-CARBON R	RN72K1J-273JE	1	435032734R1
PWB3	R8507	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB3	R8508	C-CARBON R	RN72K1J-221JE	1	435032214R1
PWB3	R8521	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB3	R8522	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB3	R8523	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB3	R8524	C-CARBON R	RN72K1J-103JE	1	435031034R1
PWB3	R8541	C-CARBON R	RN72K1J-101JE	1	435031014R1
PWB3	R8542	C-CARBON R	RN72K1J-102JE	1	435031024R1
PWB3	R8601	C-CARBON R	RN72K1J-331JE	1	435033314R1
PWB3	R8602	C-CARBON R	RN72K1J-471JE	1	435034714R1
PWB3	R8651	C-CARBON R	RN72K1J-222JE	1	435032224R1
PWB3	R8652	C-CARBON R	RN72K1J-393JE	1	435033934R1
PWB3	R8653	C-CARBON R	RN72K1J-393JE	1	435033934R1
PWB3	R8654	C-CARBON R	RN72K1J-121JE	1	435031214R1
PWB3	R9001	METAL O R	RS1/2WBJ-100	1	443521014T
PWB3	R9002	METAL O R	RS1/2WBJ-10	1	443521004T
PWB3	R9003	C-CARBON R	RN72K1J-103JE	1	435031034R1

PWB3	R9004	METAL O R	RS1/2WBJ-68	1	443526804T	
PWB3	R9101	METAL O R	RS1WBJ-220	1	443622214T	
PWB3	R9102	C-CARBON R	RN72K1J-822JE	1	435038224R1	
PWB3	R9103	C-CARBON R	RN72K1J-822JE	1	435038224R1	
PWB3	R9104	C-CARBON R	RN72K1J-333JE	1	435033334R1	
PWB3	R9105	METAL R	RNU1/2WCJ-2.2	1	453530224T	
PWB3	R9106	METAL R	RNU1/2WCJ-2.2	1	453530224T	
PWB3	RL5851	RELAY	NRL-2P5A-DC09-163	1	25065635	
PWB3	RL5851 or	RELAY	NRL-2P5A-DC9-141	(1)	25065585	
PWB3	RL5852	RELAY	NRL-2P5A-DC09-163	1	25065635	
PWB3	RL5852 or	RELAY	NRL-2P5A-DC9-141	(1)	25065585	
PWB3	RL5853	RELAY	NRL-2P5A-DC09-163	1	25065635	
PWB3	RL5853 or	RELAY	NRL-2P5A-DC9-141	(1)	25065585	
PWB3	RL9001	RELAY	NRL-1P5A-DC9-179	1	25065669	!

PWB3	S8501	R ENCODE	REB12305PVB-299-9092	1	25065688	
PWB3	S8607	PUSH SW	NPS-111-S681	1	25035718T	
PWB3	S8638	PUSH SW	NPS-111-S681	1	25035718T	
PWB3	S8640	PUSH SW	NPS-111-S681	1	25035718T	
PWB3	P5001C	PLUG	NPLG-5P119	1	25055135	
PWB3	P5101C	SOCKET AS	NSAS-10P1744	1	2009991120BUL	
PWB3	P5101Cor	SOCKET AS	NSAS-10P1744	(1)	2009991120AUL	
PWB3	P5201C	SOCKET AS	NSAS-4P1743	1	2009991119AUL	
PWB3	P5851	TRM	NTM-10PDML363	1	25060434	
PWB3	P8001C	SOCKET	NSCT-13P2247	1	25052350	
PWB3	P8003B	PLUG	NPLG-5P352	1	25055369	
PWB3	P8003C	SOCKET AS	NSAS-10P1745	1	2002E391008UL	
PWB3	P9001	PLUG	NPLG-2P631	1	25055675	!
PWB3	P9002	SOCKET AS	NSAS-4P1746	1	2009991121UL	
PWB3	P9003	AC INLET	CCT2302-0381F	1	25053269	
PWB3	P9501A	SOCKET AS	NSAS-8P1778	1	2009991138UL	
PWB3	JL9004	JUMPER LEAD	JL7 200 H (7J200606H)	1	---	NSP
PWB3	JL9004A	WIRE HOL	NSCT-7P898	1	25051111	
PWB3	JL9103	JUMPER LEAD	JL5 150 B (5J150606B15)	1	---	NSP
PWB3	JL9103C	WIRE HOL	NSCT-5P876	1	25051089	
PWB3	F9001A	FUSE HOL	NSCT-1P2031	1	25052133T	!
PWB3	F9001B	FUSE HOL	NSCT-1P2031	1	25052133T	!
PWB3	A9001	F SPEC SHT	FUSE SPEC LABEL	1	29361584	!
PWB3	A8001	CUSHION	(t9x10x7)	1	28141779	
PWB3	E8001	WS CLAMP	CB-71683(L=50)	1	260261	
PWB3	E8002	WS CLAMP	CB-71683(L=50)	1	260261	
PWB3	E8003	WS CLAMP	CB-71683(L=50)	1	260261	
PWB3	E8004	WS CLAMP	CB-71683(L=50)	1	260261	

## HTX-22HD

## PACKING PROCEDURE PARTS LIST

	REF. NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
PACKING	01	CARTON BOX	HTX-22(B)MPB	1	730-HTX22B-10	
PACKING	02	POLYFOAM	(TOP)	1	720-DHT9BT-00	
PACKING	03	POLYFOAM	(BOTTOM)	1	720-DHT9BB-00	
PACKING	04	MIRAMAT BAG	530 x 590 x 0.5t (SUBWOOFER)	1	710-250087-00	

PACKING	06	TAPE	NITTO NO.29 W18 (Yellow)	(1)	29110149	
PACKING	07	POLYFOAM	(TOP/BOTTOM)	2	ITF5306840001	
PACKING	08	MIRAMAT BAG	320 x 220 x 0.5t (FRONT SPEAKER)	2	IVA5080160020	
PACKING	09	PP TAPE	W50	(1)	29110071	or
PACKING	09 or	PP TAPE	W48 OPP TAPE	(1)	29110148	or
PACKING	09 or	PP TAPE	NITTO 3703 SUPER W50L100	(1)	29110176	
PACKING	10	EAN LABEL	HTX-22(No Serial Number printing)	(1)	605-HTX22B-01	
PACKING	12	POLY BAG	350 x 250	1	29100250A	
PACKING	13	MIC	MIC-5001	1	245043	
PACKING	14	CORD AS	NOP-1P150 (1.5m)	1	2050077	
PACKING	14 or	CORD AS	NOP-1P150 (1.5m)	(1)	2050070	
PACKING	14 or	CORD AS	NOP-1P150 (1.5m)	(1)	2050077DEE	
PACKING	15	AC CORD	AS-CEE	1	253299VOL	!
PACKING	15 or	AC CORD	AS-CEE	(1)	253299LTK	!

PACKING	16	AC CORD	AS-BS	1	253354LTK	!
PACKING	17	REMO CON	RC-720S	1	24140720	
PACKING	18	BATTERY	R6/AA(UM-3)	2	3010054	
PACKING	18 or	BATTERY	R6/AA(UM-3)	(2)	3010194	
PACKING	19	CORK FOOT AS	Dia.15 x t3 x 4pcs. / 1set (SUBWOOFER)	1	441-903600-00	
PACKING	20	INS MANUAL	En(HTX-22HD)	1	29344714	
PACKING	21	INS MANUAL	DeFrIt(HTX-22HD)	1	29344717	
PACKING	22	INST SHEET	WEEE	1	29355537	
PACKING	23	INST SHEET	En(HTX-22HD RI-HD)	1	29355707	
PACKING	24	CORD AS	HDMI 1.5M	1	2010449	
PACKING	24 or	CORD AS	HDMI 1.5M (687670089) (1.3a)	1	2010473	Added
PACKING	25	POLY BAG	200 x 100 x 0.025t (For SP CABLE)	1	IVA5020120030	
PACKING	26	SPEAKER CABLE	#20 3.5m WHITE LINE	1	VWS3211223500	
PACKING	27	SPEAKER CABLE	#20 3.5m RED LINE	1	VWS3211223501	
PACKING	28	CORK FOOT AS	Dia.15 x t1.5 x 4pcs. / 1set (FRONT SP)	2	BRF8000180001	
PACKING	30	LAYER PAD	(DUMMY)	1	742-810028-00	
PACKING	31	POLYFOAM	---	2	720-HTX22S-00	
PACKING	32	LABEL	(check5x5)	1	29364704	



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