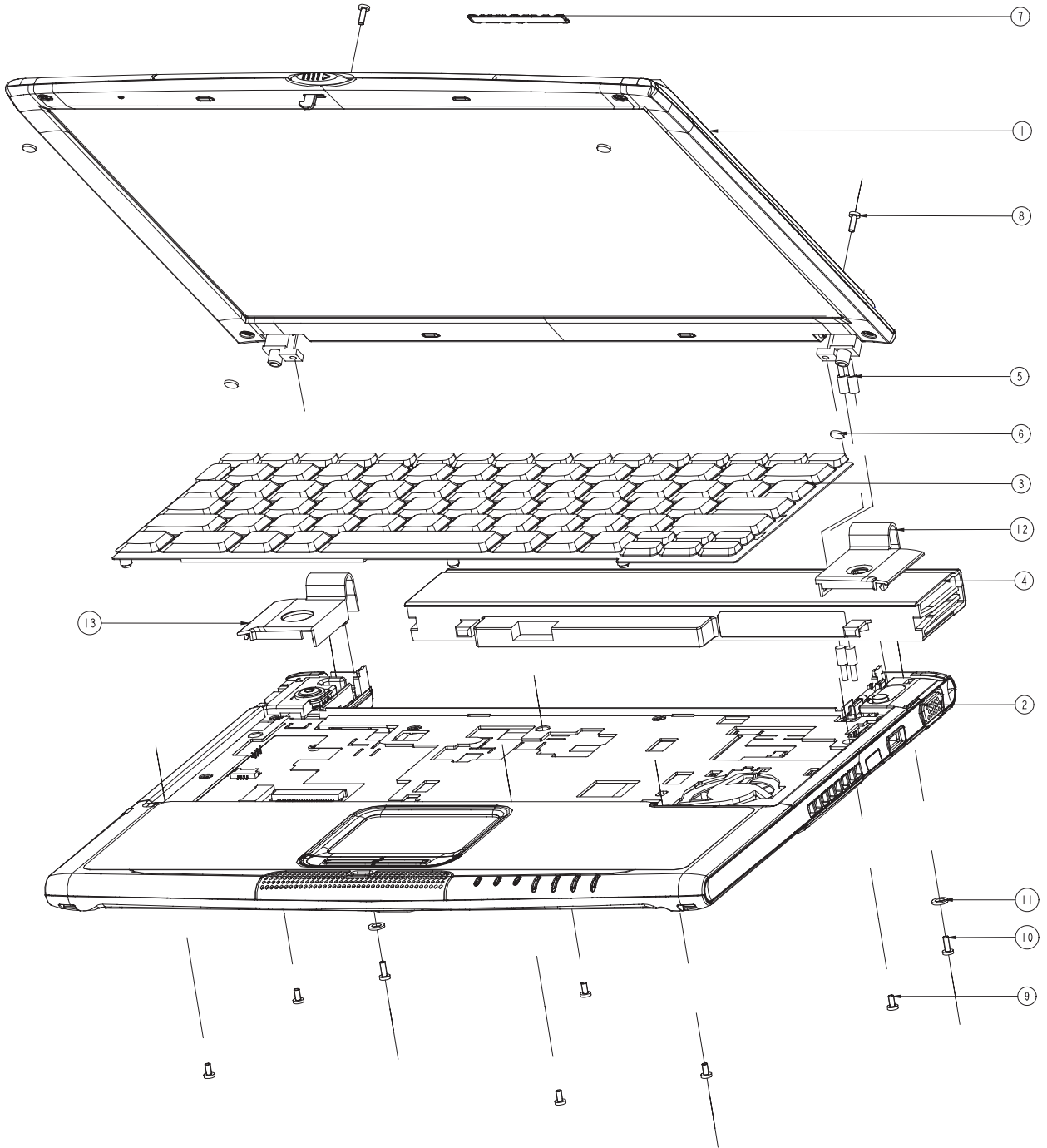


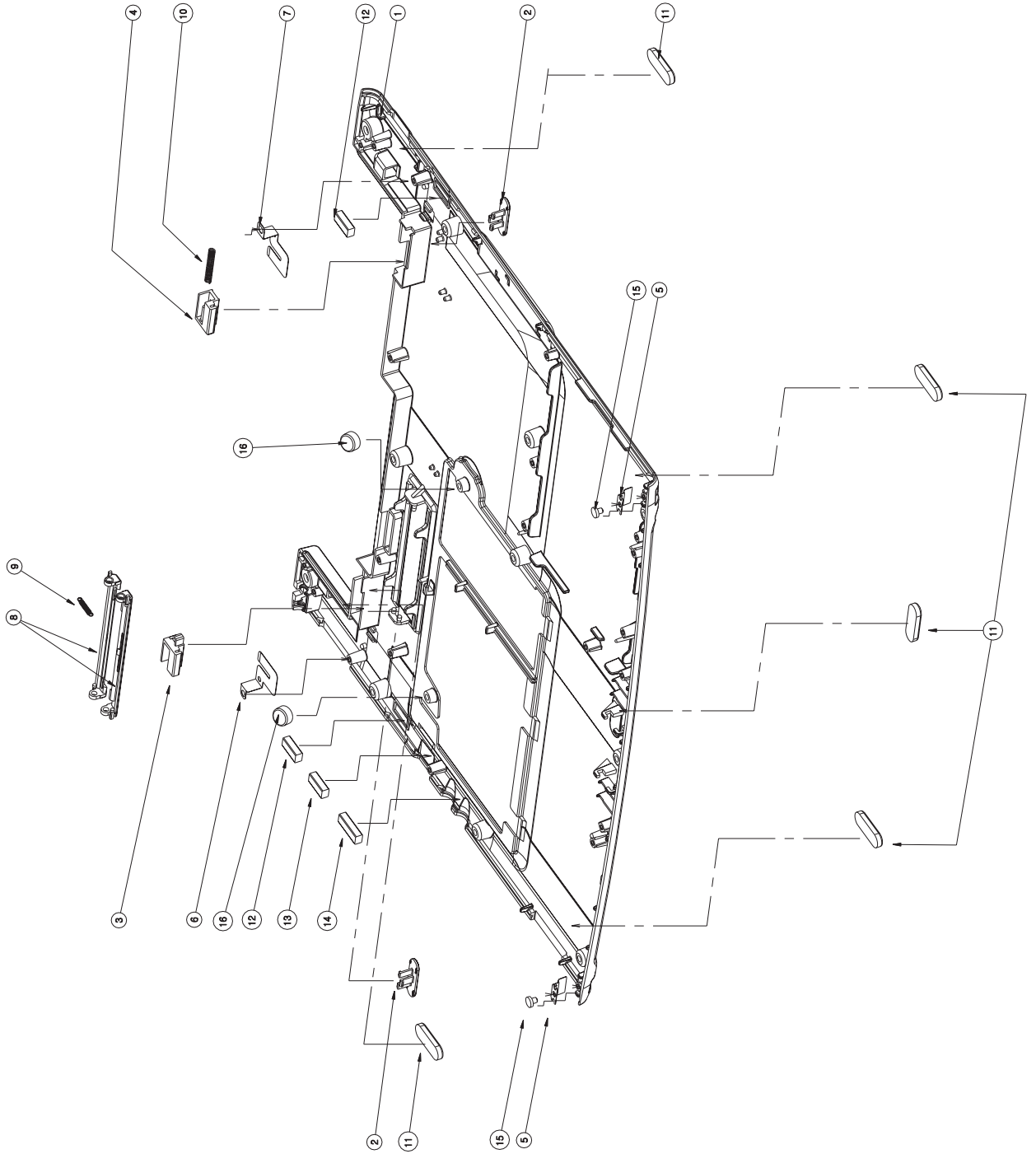
4 System Exploded View and Parts List

4-1 Exploded System



NO	품 명	CODE NO	SPECIFICATION	Q'TY	REMARK
1	ASSY MECHA LCD			1	
2	ASSY MECHA SYSTEM			1	
3	KEYBOARD			1	
4	BATTERY PACK			1	
5	ANTENNA JACK			1	
6	RUBBER LCD	BA73-10004A		4	
7	LABEL-BADGE_SMAMSUNG	BA68-02181A		1	
8	SCREW M2.0X6, CH, Ni, +	6001-001406		2	
9	SCREW M2.0X4.0, BH, Ni, +	6001-001405		6	
10	SCREW M3.0X5.5, BH, Ni, +	6001-001403		2	
11	WASHER-SPRING	6031-001402		2	
12	CAP-HINGE, R	BA72-01079A		1	
13	CAP-HINGE, L	BA72-01078A		1	

4-2 UNIT_HOUSING_BOTTOM_1



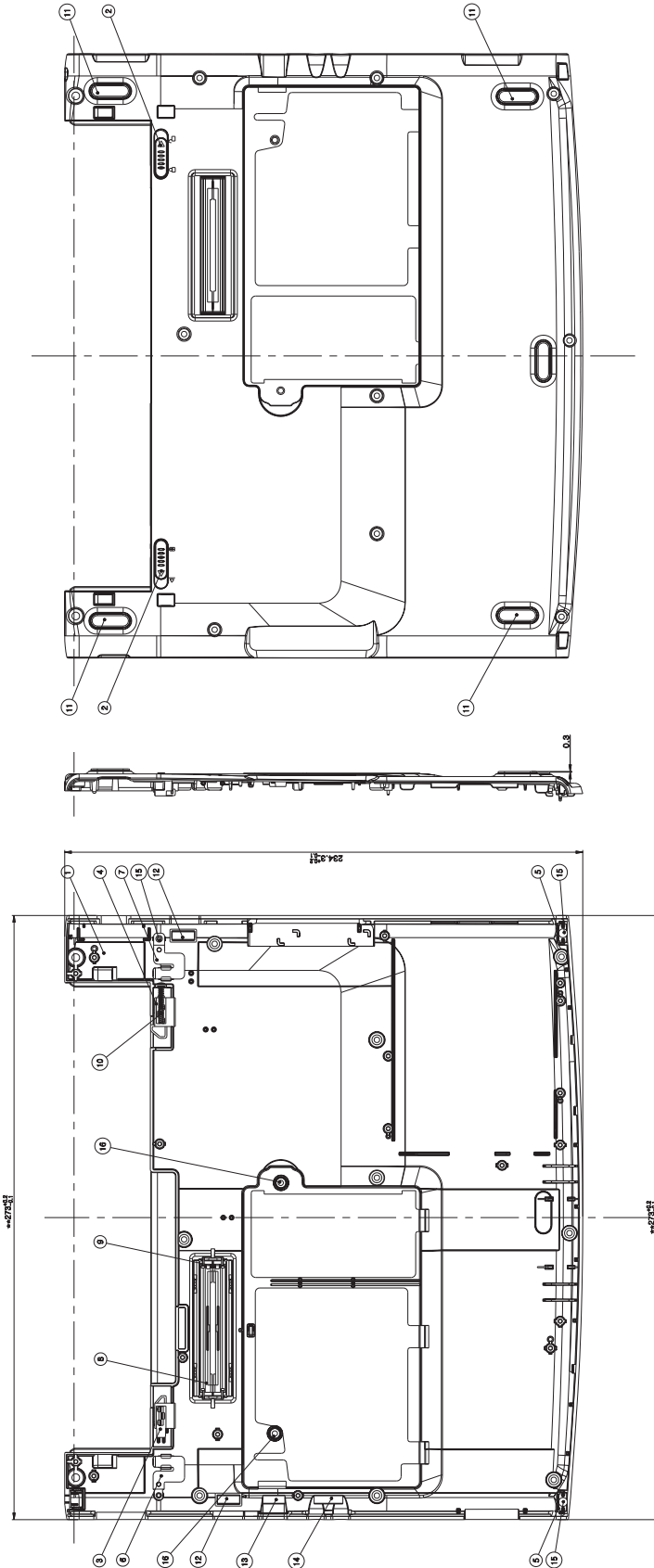
4-2-1 BA75-01031A UNIT_HOUSING_BOTTOM_1

NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-BOTTOM	BA61-00653A	Mg T0.7	1	GEMINI SILVER
2	KNOB-BATT	BA64-00188A	PC/ABS	2	GEMINI SILVER
3	LINK-BATT_L	BA72-00640A	POM	1	
4	LINK-BATT_R	BA72-00641A	POM	1	
5	SHIELD-DOCK_FRONT	BA63-00140A	SUS 304 T0.15	2	Ni 도
6	SHIELD-DOCK_REAR_L	BA63-00138A	SUS 304 T0.15	1	Ni 도
7	SHIELD-DOCK_REAR_R	BA63-00139A	SUS 304 T0.15	1	Ni 도
8	DOOR-DOCKING	BA72-00646C	PC/ABS	2	GEMINI SILVER
9	SPRING-DOCKING	BA61-00039A	SWP	1	
10	SPRING-BATTERY	BA61-00101A	SWP	1	
11	RUBBER-FOOT_SYS	BA73-00165A	SILICON RUBBER	5	PANTON 428U
12	GASKET-USB	BA63-00126A	L9.0XW4.0XT2.0	2	
13	GASKET-1394	BA63-00126A	L9.0XW4.0XT2.0	1	
14	GASKET MIC	BA63-00128A	L9.0XW4.0XT2.0	1	
15	SCREW-MACHINE	6001-001446	M2.0X2.5, CH, YEL, +	3	
16	RUBBER-CAP			2	

4-2-2 BA75-01040A UNIT_HOUSING_BOTTOM_2

NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-BOTTOM	BA61-00661A	Mg T0.7	1	GEMINI SILVER
2	KNOB-BATT	BA64-00188A	PC/ABS	2	GEMINI SILVER
3	LINK-BATT_L	BA72-00640A	POM	1	
4	LINK-BATT_R	BA72-00641A	POM	1	
5	SHIELD-DOCK_FRONT	BA63-00140A	SUS 304 T0.15	2	Ni 도
6	SHIELD-DOCK_REAR_L	BA63-00138A	SUS 304 T0.15	1	Ni 도
7	SHIELD-DOCK_REAR_R	BA63-00139A	SUS 304 T0.15	1	Ni 도
8	DOOR-DOCKING	BA72-00646C	PC/ABS	2	GEMINI SILVER
9	SPRING-DOCKING	BA61-00039A	SWP	1	
10	SPRING-BATTERY	BA61-00101A	SWP	1	
11	RUBBER-FOOT_SYS	BA73-00165A	SILICON RUBBER	5	PANTON 428U
12	GASKET-USB	BA63-00126A	L9.0XW4.0XT2.0	2	
13	GASKET-1394	BA63-00126A	L9.0XW4.0XT2.0	1	
14	GASKET MIC	BA63-00128A	L9.0XW4.0XT2.0	1	
15	SCREW-MACHINE	6001-001446	M2.0X2.5, CH, YEL, +	3	
16	RUBBER-CAP			2	

4-3 UNIT_HOUSING_BOTTOM_2



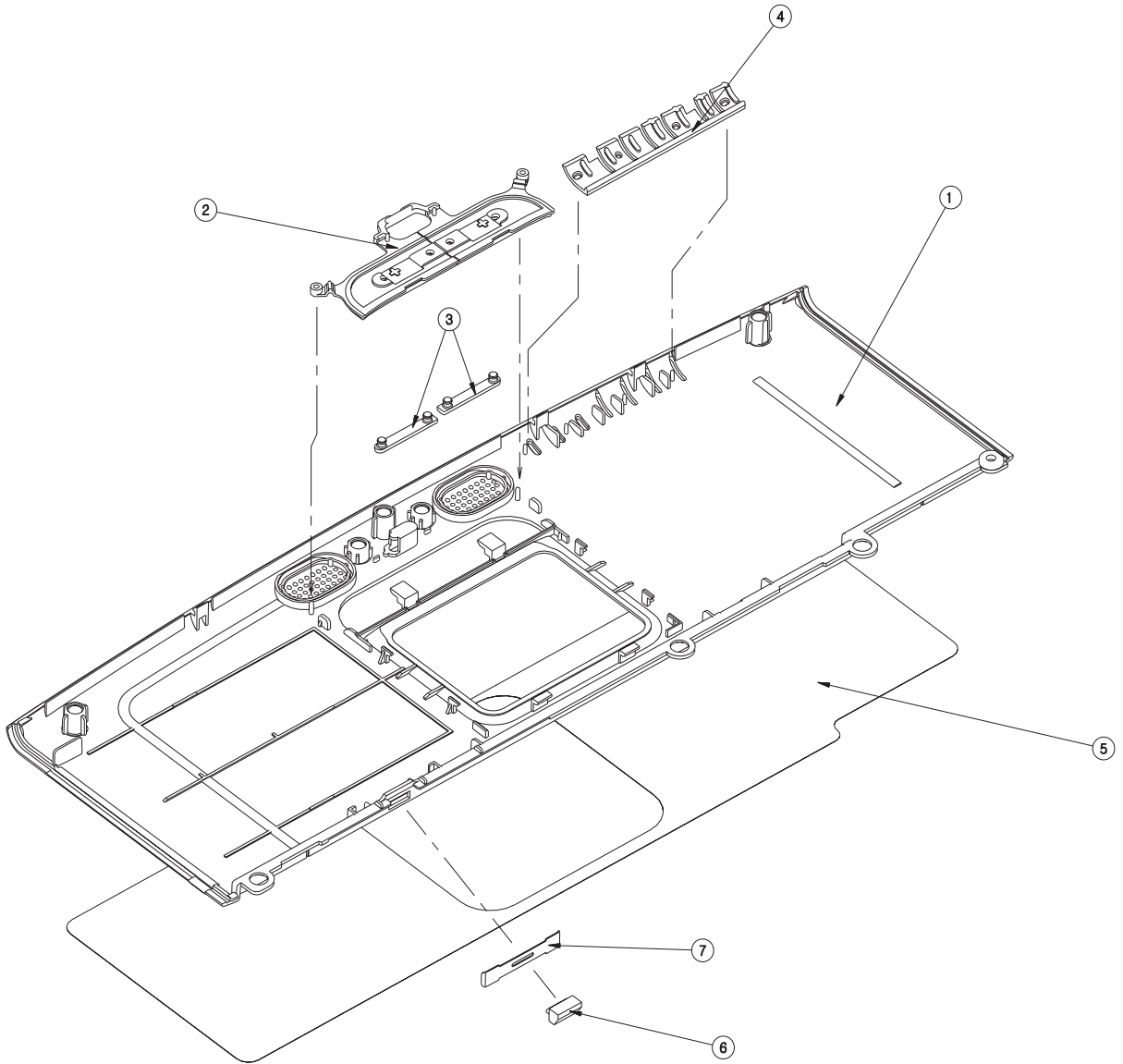
4-3-1 BA75-01031A UNIT_HOUSING_BOTTOM_1

NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-BOTTOM	BA61-00653A	Mg T0.7	1	GEMINI SILVER
2	KNOB-BATT	BA64-00188A	PC/ABS	2	GEMINI SILVER
3	LINK-BATT_L	BA72-00640A	POM	1	
4	LINK-BATT_R	BA72-00641A	POM	1	
5	SHIELD-DOCK_FRONT	BA63-00140A	SUS 304 T0.15	2	Ni 도
6	SHIELD-DOCK_REAR_L	BA63-00138A	SUS 304 T0.15	1	Ni 도
7	SHIELD-DOCK_REAR_R	BA63-00139A	SUS 304 T0.15	1	Ni 도
8	DOOR-DOCKING	BA72-00646C	PC/ABS	2	GEMINI SILVER
9	SPRING-DOCKING	BA61-00039A	SWP	1	
10	SPRING-BATTERY	BA61-00101A	SWP	1	
11	RUBBER-FOOT_SYS	BA73-00165A	SILICON RUBBER	5	PANTON 428U
12	GASKET-USB	BA63-00126A	L9.0XW4.0XT2.0	2	
13	GASKET-1394	BA63-00126A	L9.0XW4.0XT2.0	1	
14	GASKET MIC	BA63-00128A	L9.0XW4.0XT2.0	1	
15	SCREW-MACHINE	6001-001446	M2.0X2.5, CH, YEL, +	3	
16	RUBBER-CAP			2	

4-3-2 BA75-01040A UNIT_HOUSING_BOTTOM_2

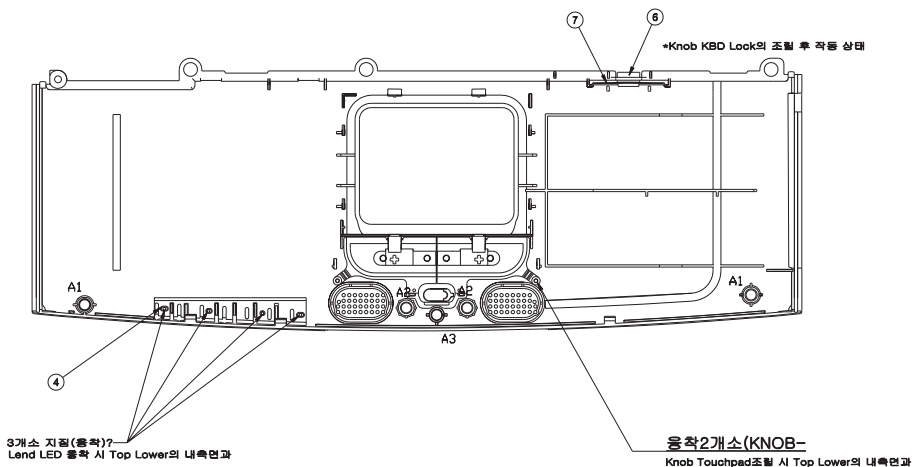
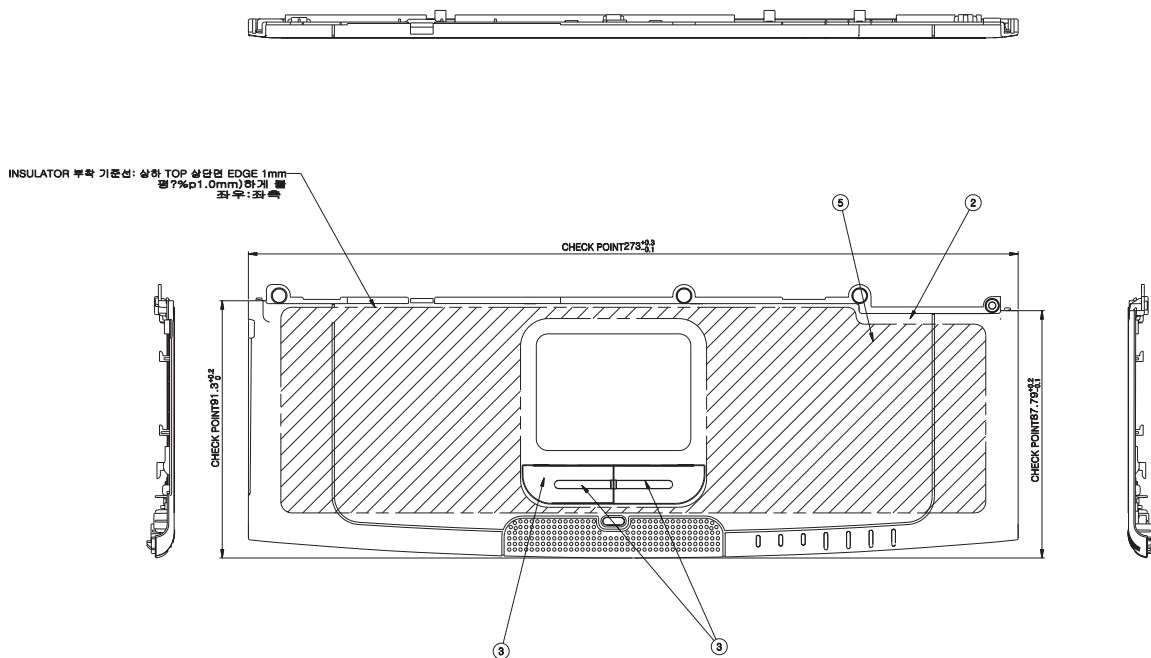
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-BOTTOM	BA61-00661A	Mg T0.7	1	GEMINI SILVER
2	KNOB-BATT	BA64-00188A	PC/ABS	2	GEMINI SILVER
3	LINK-BATT_L	BA72-00640A	POM	1	
4	LINK-BATT_R	BA72-00641A	POM	1	
5	SHIELD-DOCK_FRONT	BA63-00140A	SUS 304 T0.15	2	Ni 도
6	SHIELD-DOCK_REAR_L	BA63-00138A	SUS 304 T0.15	1	Ni 도
7	SHIELD-DOCK_REAR_R	BA63-00139A	SUS 304 T0.15	1	Ni 도
8	DOOR-DOCKING	BA72-00646C	PC/ABS	2	GEMINI SILVER
9	SPRING-DOCKING	BA61-00039A	SWP	1	
10	SPRING-BATTERY	BA61-00101A	SWP	1	
11	RUBBER-FOOT_SYS	BA73-00165A	SILICON RUBBER	5	PANTON 428U
12	GASKET-USB	BA63-00126A	L9.0XW4.0XT2.0	2	
13	GASKET-1394	BA63-00126A	L9.0XW4.0XT2.0	1	
14	GASKET MIC	BA63-00128A	L9.0XW4.0XT2.0	1	
15	SCREW-MACHINE	6001-001446	M2.0X2.5, CH, YEL, +	3	
16	RUBBER-CAP			2	

4-4 UNIT-HOUSING-TOP-L_1



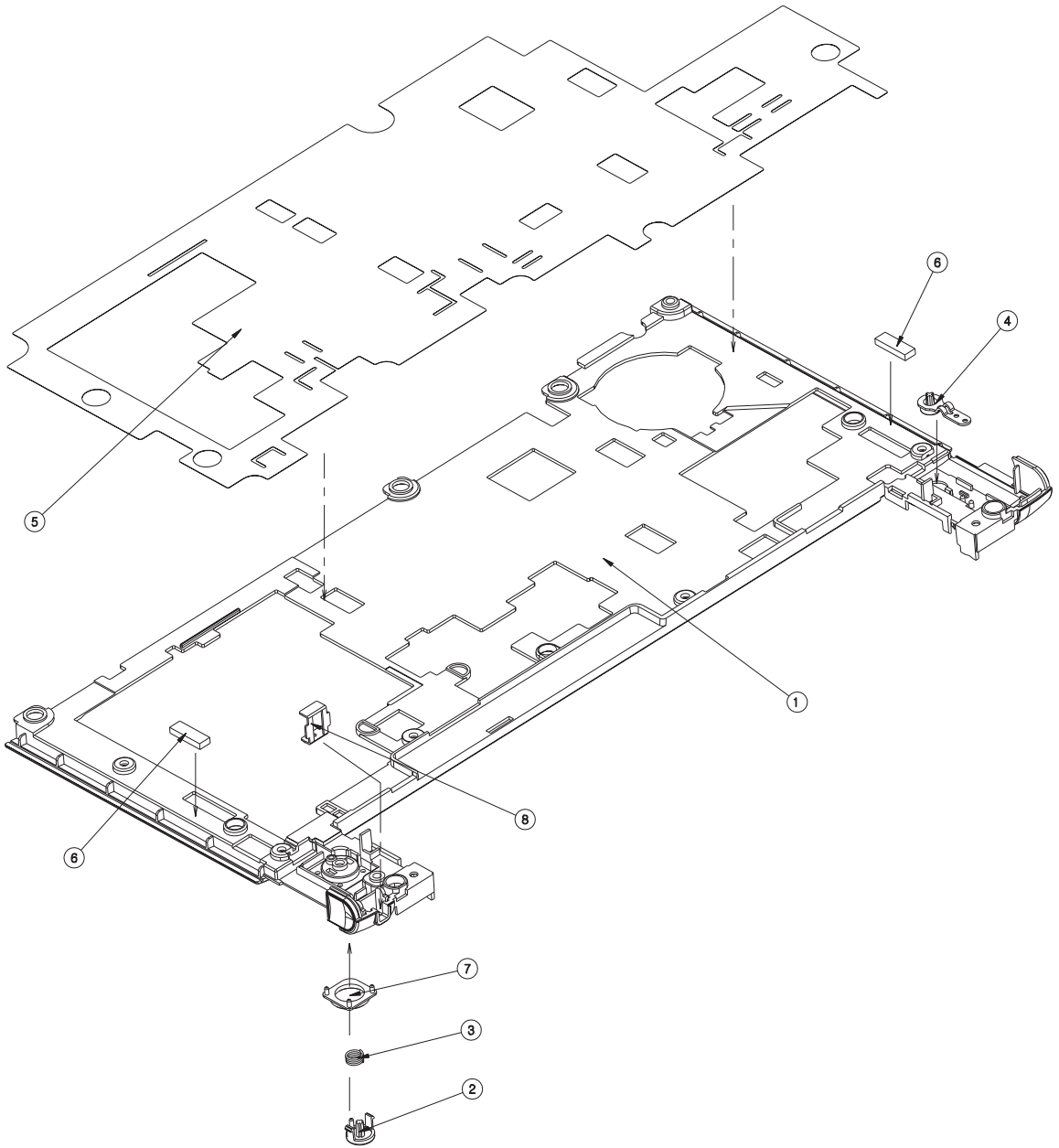
NO	PART NAME	SEC PART NO.	Q'TY	SPECIFICATION	REMARK
1	HOUSING-TOP-L	BA61-00652A	1	PC/ABS, TALC	NEW
2	KNOB-TOUCHPAD	BA64-00487A	1	PC/ABS	NEW
3	RUBBER-TOUCHPAD	BA73-00274A	2	SILICON 경도	NEW
4	LENS-LED	BA67-00195A	1	PC+확?	NEW
5	INSULATOR-TOP-L	BA62-00143A	1	PET T=0.05	COMMON
6	KNOB-KBD-LOCK	BA64-00019A	1		COMMON
7	SPRING-KBG	BA61-00004A	1		COMMON

4-5 UNIT-HOUSING-TOP-L_2



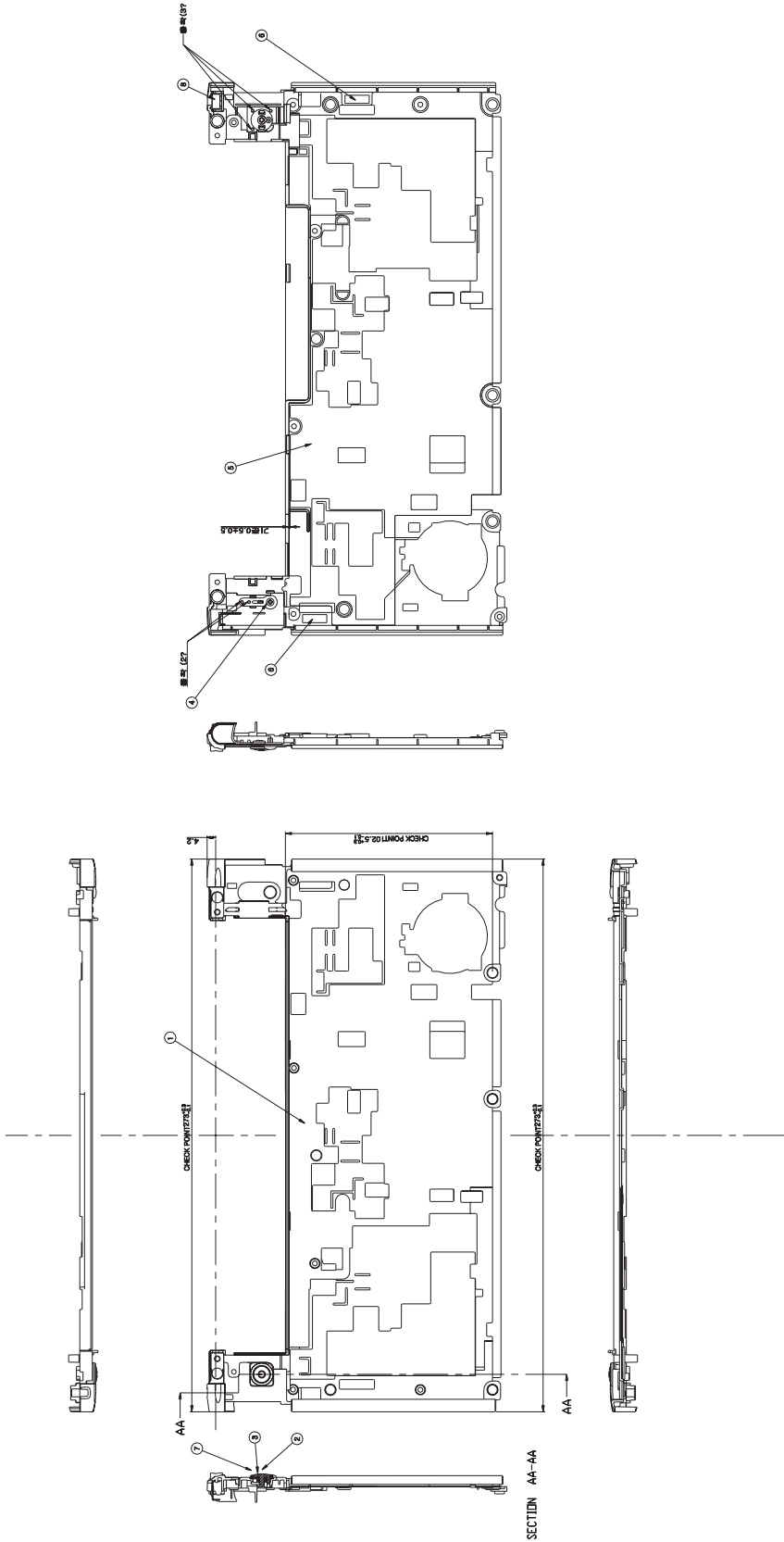
NO	PART NAME	SEC PART NO.	Q'TY	SPECIFICATION	REMARK
1	HOUSING-TOP L	BA61-00652A	1	PC/ABS,TALC	NEW
2	KNOB-TOUCHPAD	BA64-00487A	1	PC/ABS	NEW
3	RUBBER-TOUCHPAD	BA73-00274A	2	SILICIN 경도	NEW
4	LENS-LED	BA67-00195A	1	PC+황?	NEW
5	INSULATOR-TOP L	BA62-00143A	1	PET T=0.05	COMMON
6	KNOB-KBD-LOCK	BA64-00019A	1		COMMON
7	SPRING-KBD	BA61-00004A	1		COMMON

4-6 UNIT-HOUSING-TOP-U_1



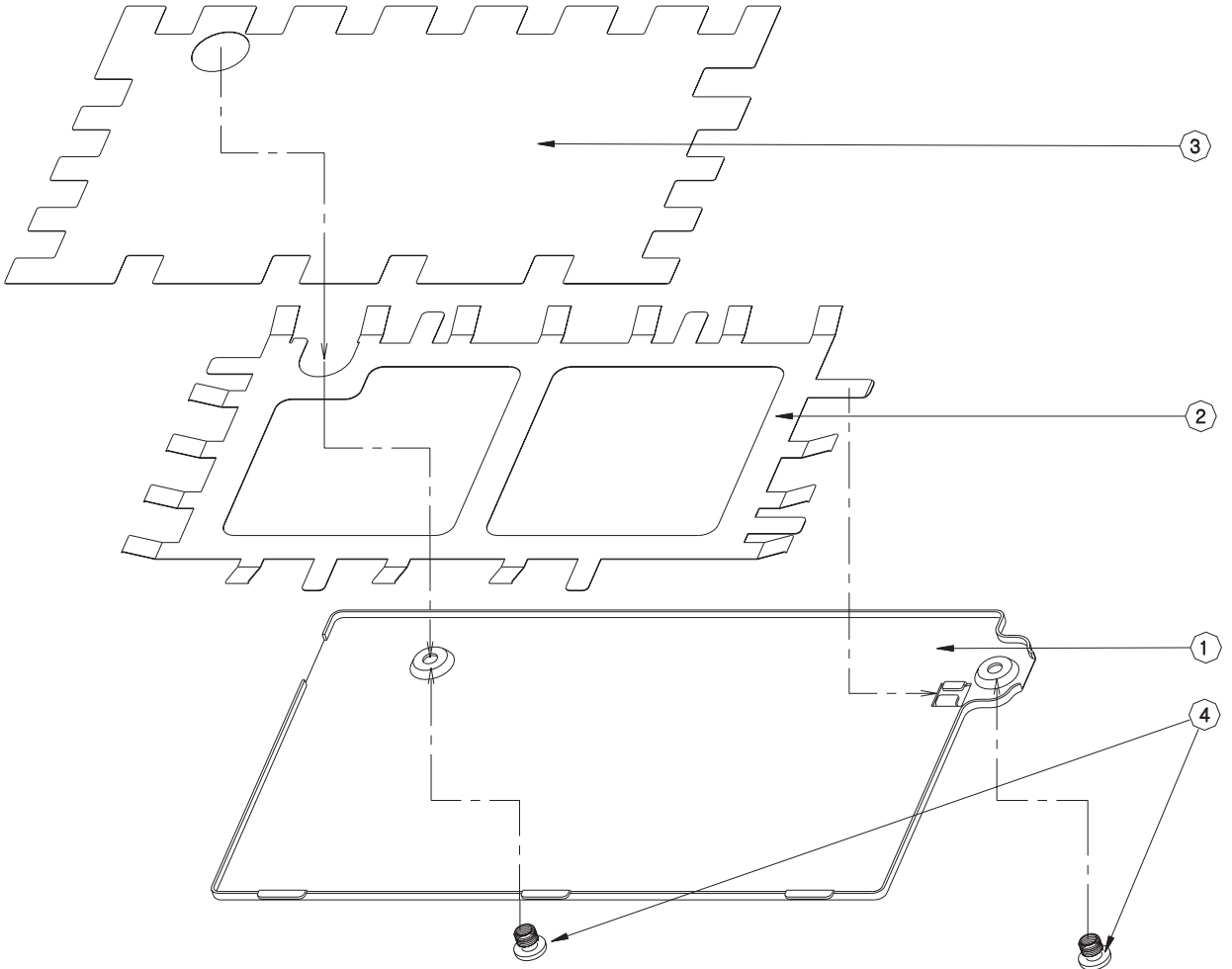
NO	PART NAME	SEC PART NO.	Q'TY	SPECIFICATION	REMARK
1	HOUSING-TOP U	BA61-00651A	1	PC/ABS,TALC	NEW
2	KNOB-POWER	BA6-00193A	1	ABS	COMMON
3	SPRING-POWER	BA61-70116A	1	SWP	COMMON
4	KNOB-USER	BA64-00486A	1	ABS	COMMON
5	INSULRATOR-TOP, U	BA62-00241A	1	PET T=0.15 투	NEW
6	GASKET-TOP, U	BA63-00085A	2	4X12X1.5T	COMMON
7	LENS-POWER	BA67-00097A	1	PC	COMMON
8	BRKT-KENSINGTON_SYS	BA61-00173A	1	STS T=0.5	COMMON

4-7 UNIT-HOUSING-TOP-U_2



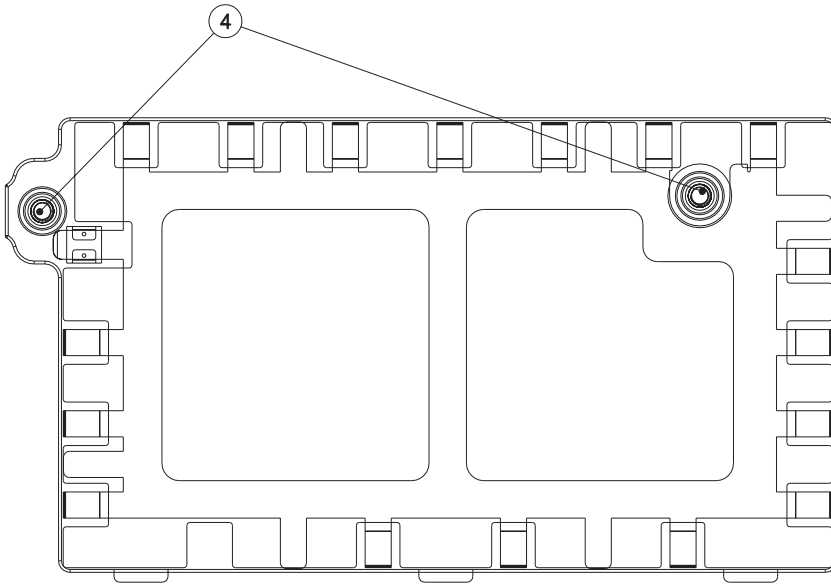
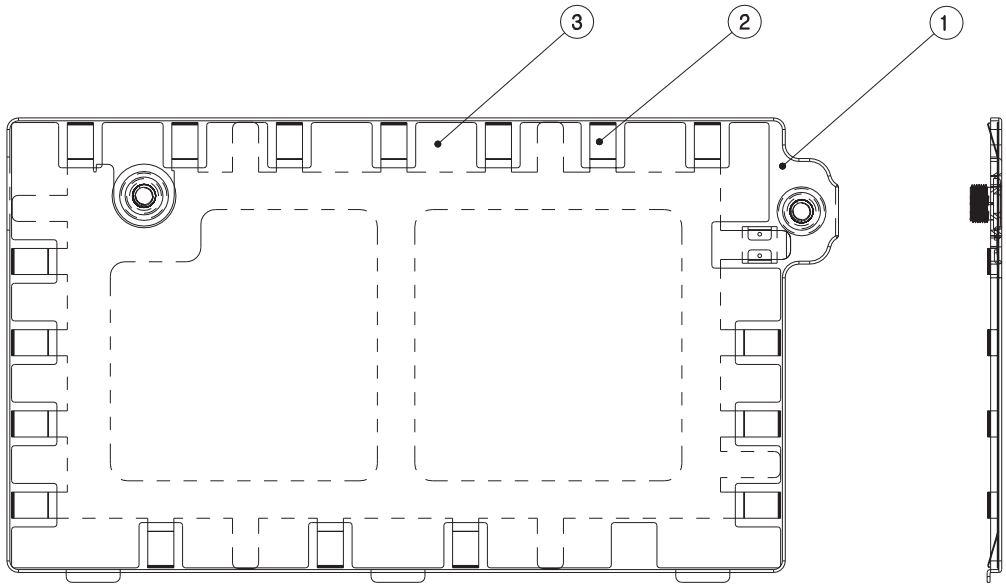
NO	PART NAME	SEC PART NO.	Q'TY	SPECIFICATION	REMARK
1	HOUSING-TOP U	BA61-00651A	1	PC/ABS,TALC	NEW
2	KNOB-POWER	BA6-00193A	1	ABS	COMMON
3	SPRING-POWER	BA61-70116A	1	SWP	COMMON
4	KNOB-USER	BA64-00486A	1	ABS	COMMON
5	INSULRATOR-TOP, U	BA62-00241A	1	PET T=0.15 투	NEW
6	GASKET-TOP, U	BA63-00085A	2	4X12X1.5T	COMMON
7	LENS-POWER	BA67-00097A	1	PC	COMMON
8	BRKT-KENSINGTON_SYS	BA61-00173A	1	STS T=0.5	COMMON

4-8 UNIT-BRKT-MEMORY_1



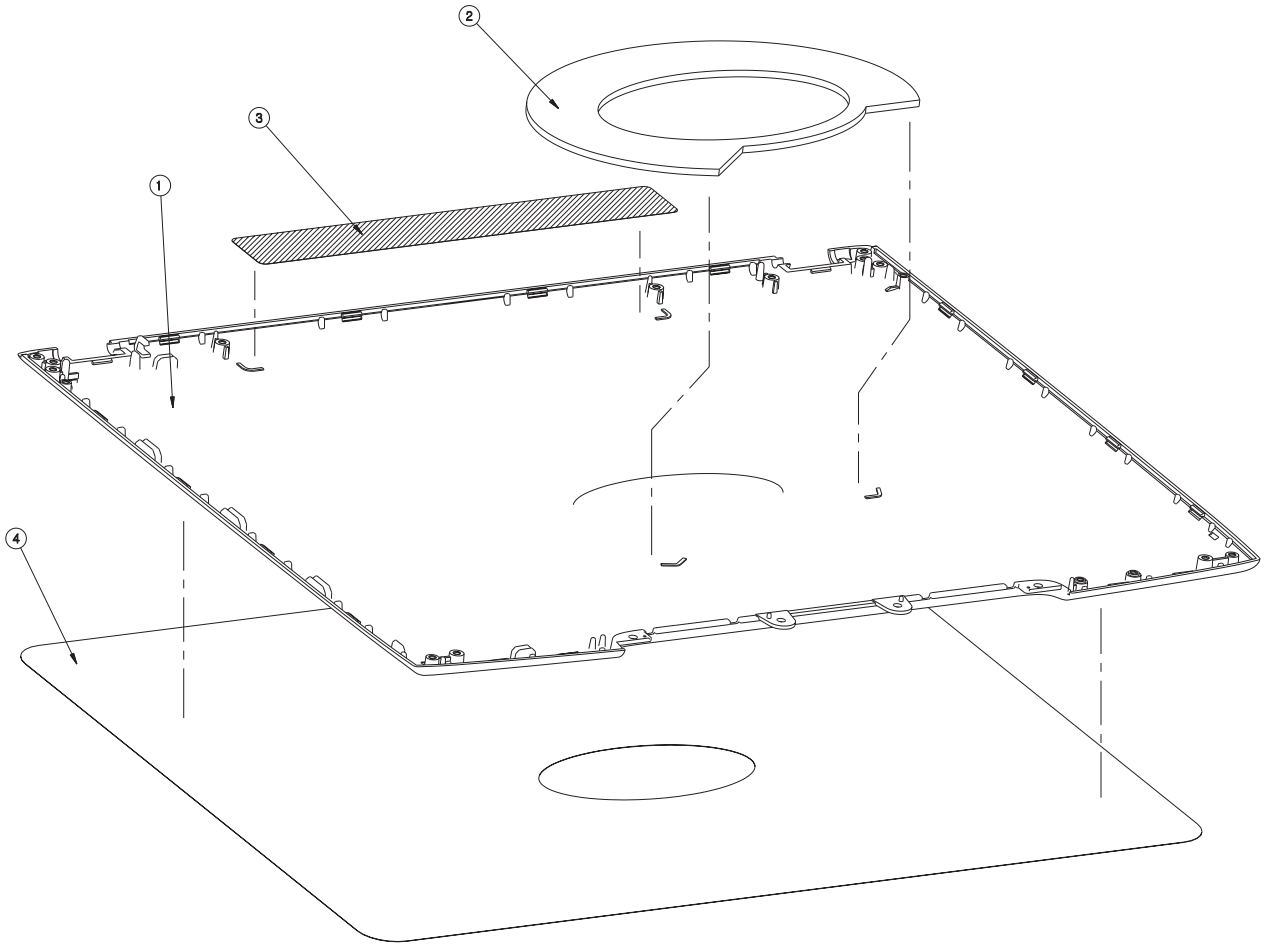
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	BRKT_MEMORY	BA61-00654A	AL T0.5	1	GEMINI SILVER
2	PLATE_SPRING_MEMORY	BA63-00392A	SUS304 T0.5	1	Ni 도
3	INSULATOR_MEMORY	BA62-00242A	PE T0.15, BLACK	1	
4	SCREW-SPECIAL	6009-001483	SPECIAL, M3.0x 4.0, CH Ni, +	2	

4-9 UNIT-BRKT-MEMORY_2



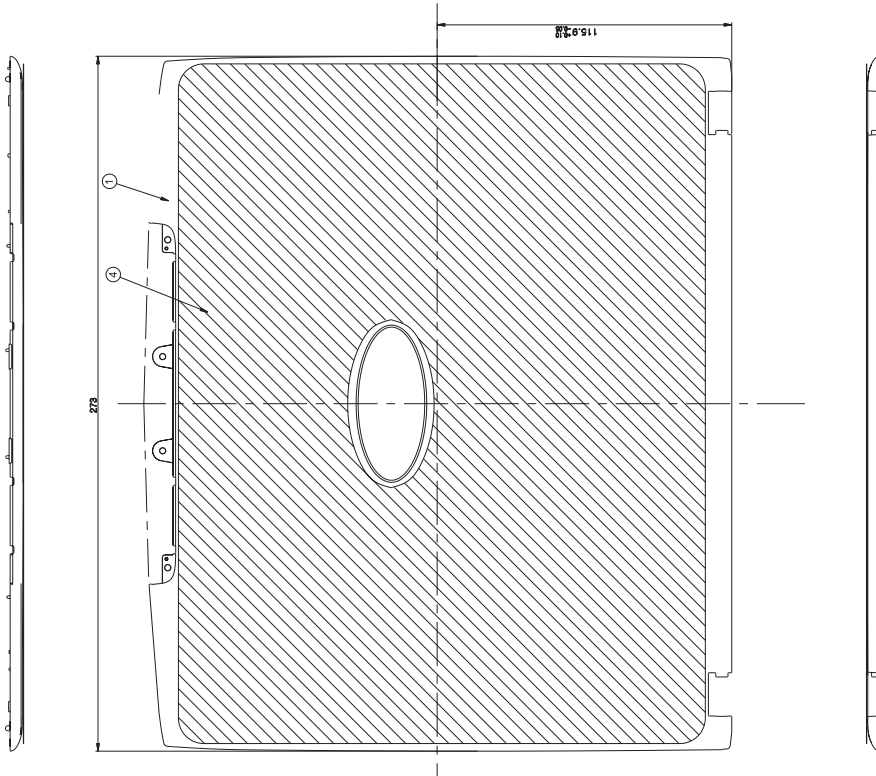
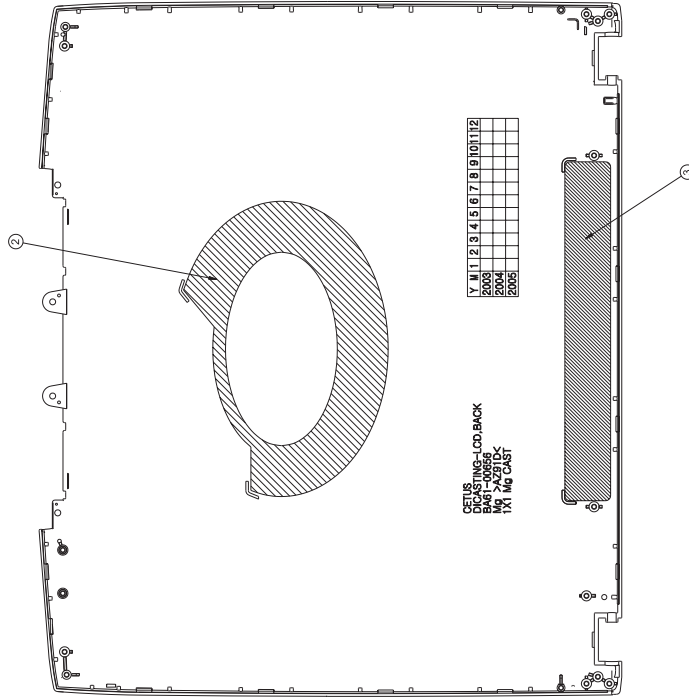
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	BRKT_MEMORY	BA61-00654A	AL T0.5	1	GEMINI SILVER
2	PLATE_SPRING_MEMORY	BA63-00392A	SUS304 T0.5	1	Ni 도
3	INSULATOR_MEMORY	BA62-00242A	PE T0.15, BLACK	1	
4	SCREW-SPECIAL	6009-001483	SPECIAL, M3.0x 4.0, CH Ni, +	2	

4-10 UNIT_HOUSING_ICDBACK_1



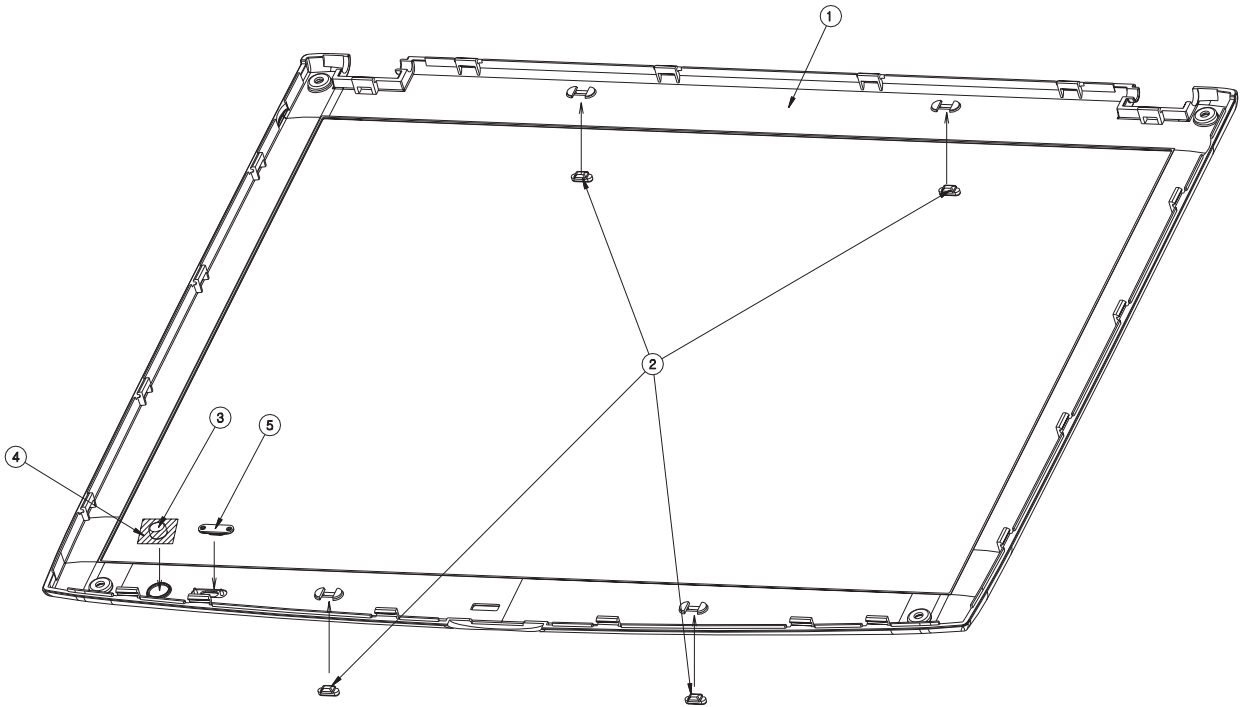
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-LCD BACK	BA61-00657A	MgAZ91D	1	
2	SPONGE LCD BACK	BA73-10075A	RUBBER SPONGE	1	
3	INSULATOR-INVORTOR	BA72-00655A	PET 0.1	1	
4	INSULATOR LCD_BACK	BA62-00146A	PET, T0.05 REMOVAL	1	

4-11 UNIT_HOUSING_ICDBACK_2



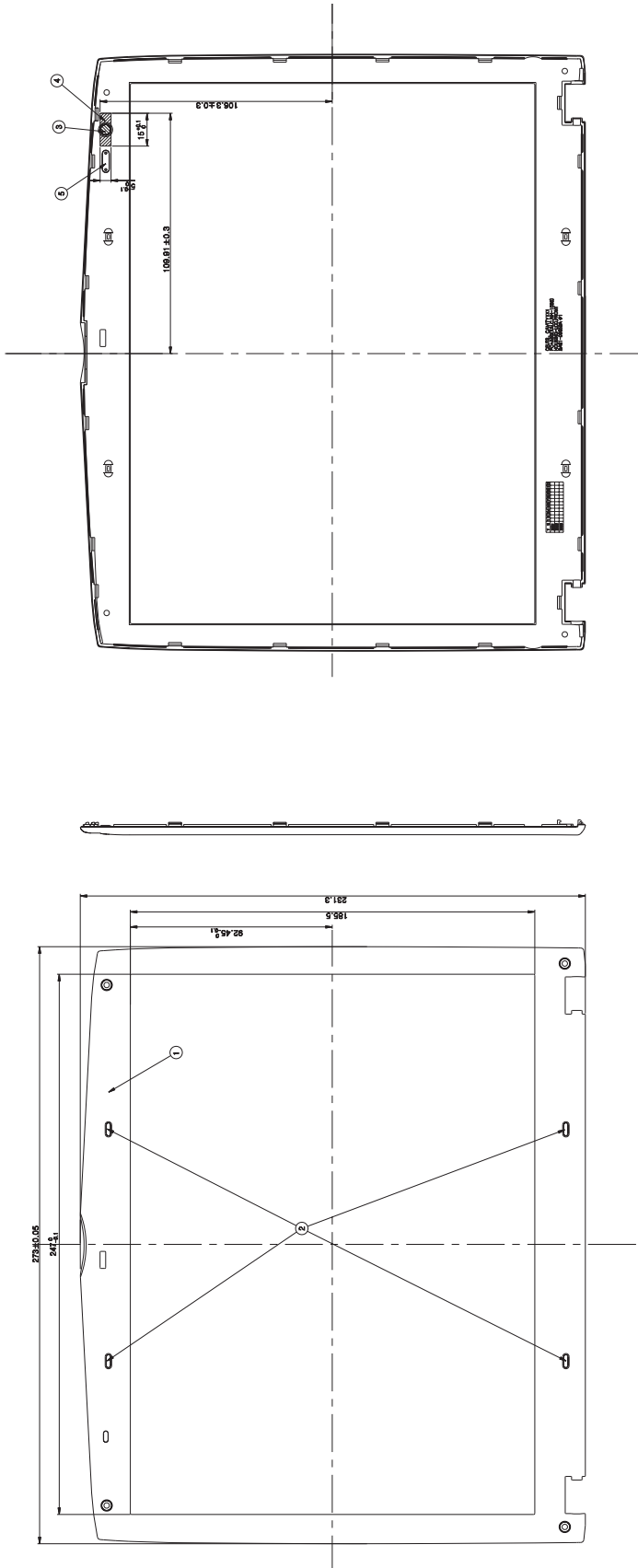
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-LCD BACK	BA61-00657A	MgAZ91D	1	
2	SPONGE LCD BACK	BA73-10075A	RUBBER SPONGE	1	
3	INSULATOR-INVORTOR	BA72-00655A	PET 0.1	1	
4	INSULATOR LCD_BACK	BA62-00146A	PET, T0.05 REMOVAL	1	

4-12 UNIT_ICDFRONT_1



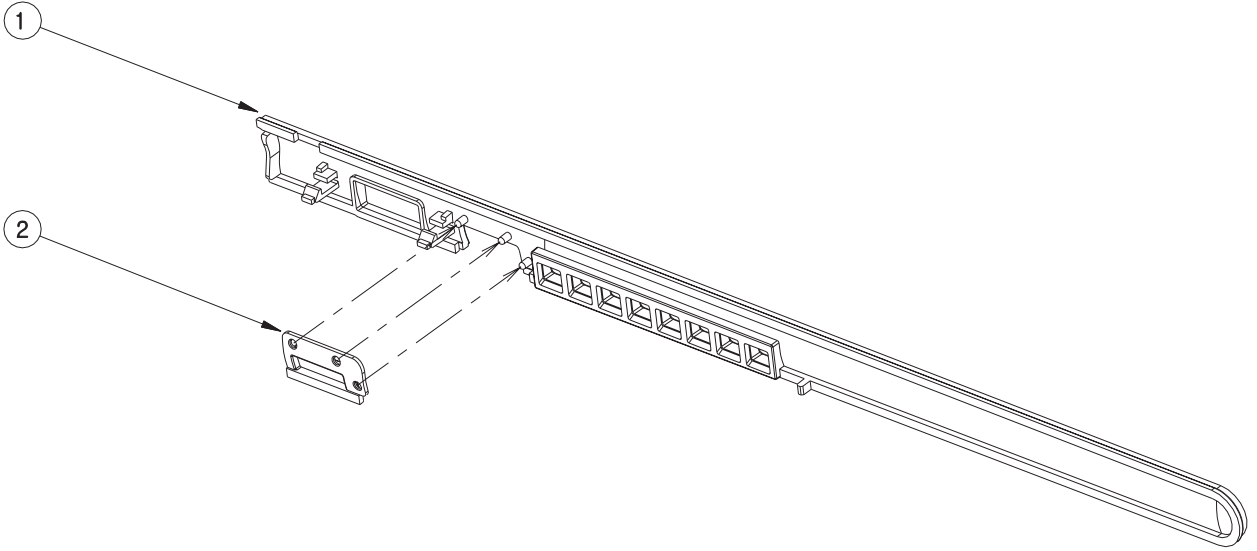
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-LCD FRONT	BA61-00658A	PC/ABS, TALC	1	
2	RUBBER-FRONT	BA73-10074A	URETHANE90	4	
3	MAGNET-LCD	BA70-00565A	ND	1	
4	INSULATOR-TAPE-LCD	BA72-00565A	3M 5413	1	
5	LENS PHOTO SECSOR	BA67-00196A	PC	1	

4-13 UNIT_ICDFRONT_2



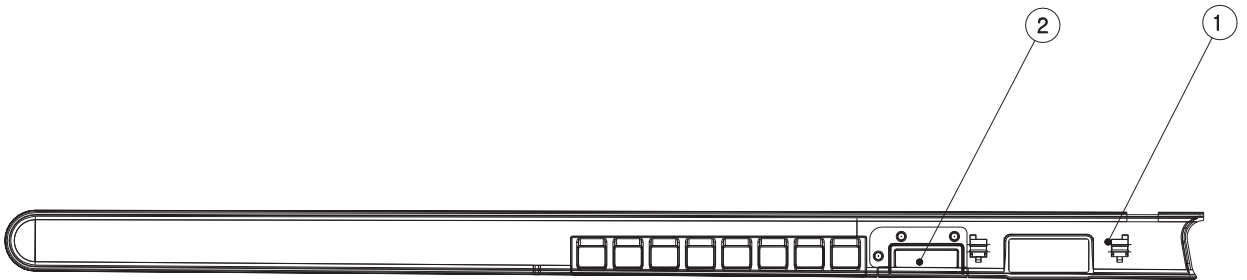
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-LCD FRONT	BA61-00658A	PC/ABS, TALC	1	
2	RUBBER-FRONT	BA73-10074A	URETHANE90	4	
3	MAGNET-LCD	BA70-00565A	ND	1	
4	INSULATOR-TAPE-LCD	BA72-00565A	3M 5413	1	
5	LENS PHOTO SECSOR	BA67-00196A	PC	1	

4-14 UNIT_COVER_RIGHT_1



NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	COVER_RIGHT	BA63-00394A	PC/ABS	1	
2	LENS_IRDA	BA67-00197A	PC(PU01)	1	

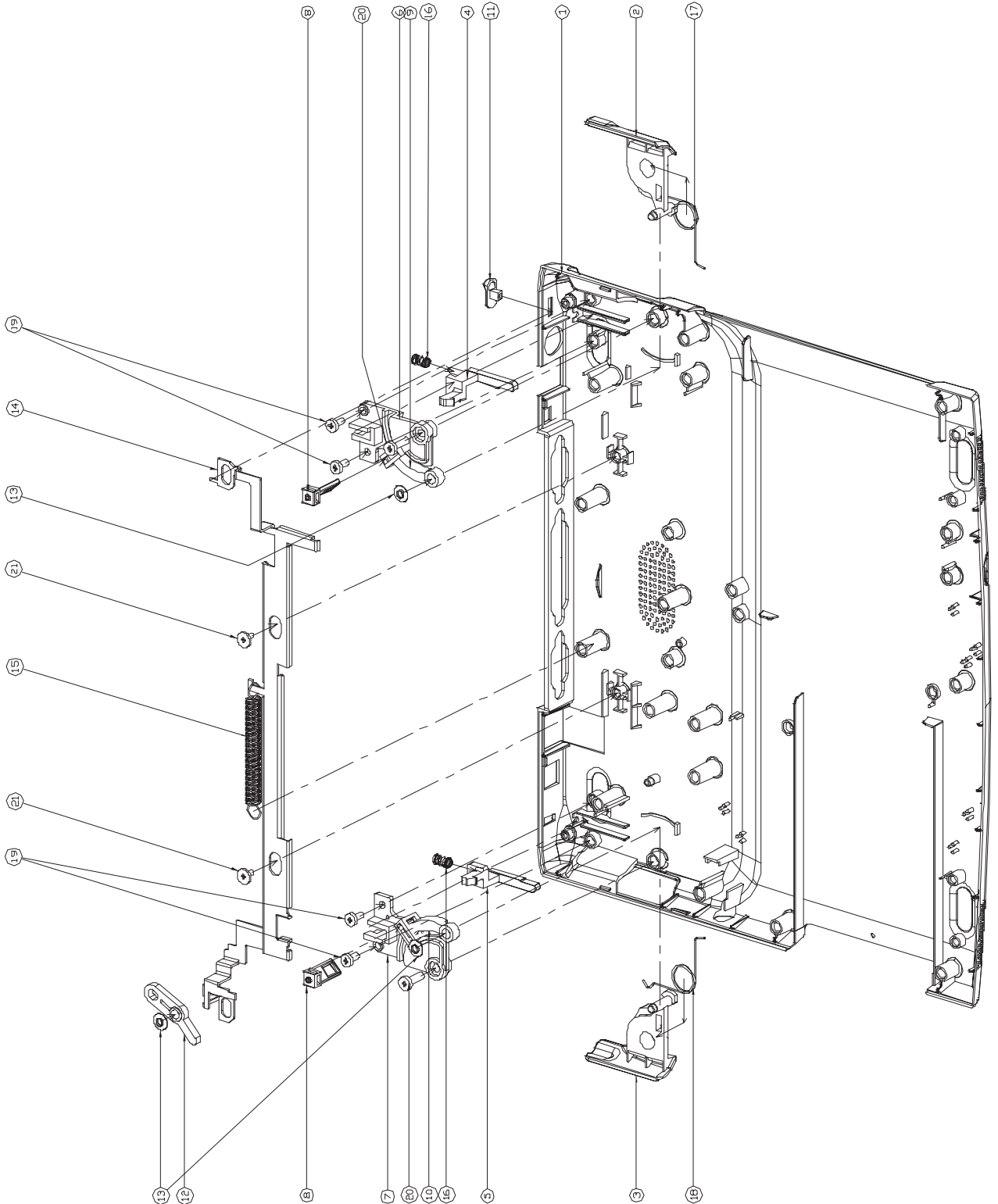
4-15 UNIT_COVER_RIGHT_2



NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	COVER_RIGHT	BA63-00394A	PC/ABS	1	
2	LENS_IRDA	BA67-00197A	PC(PU01)	1	

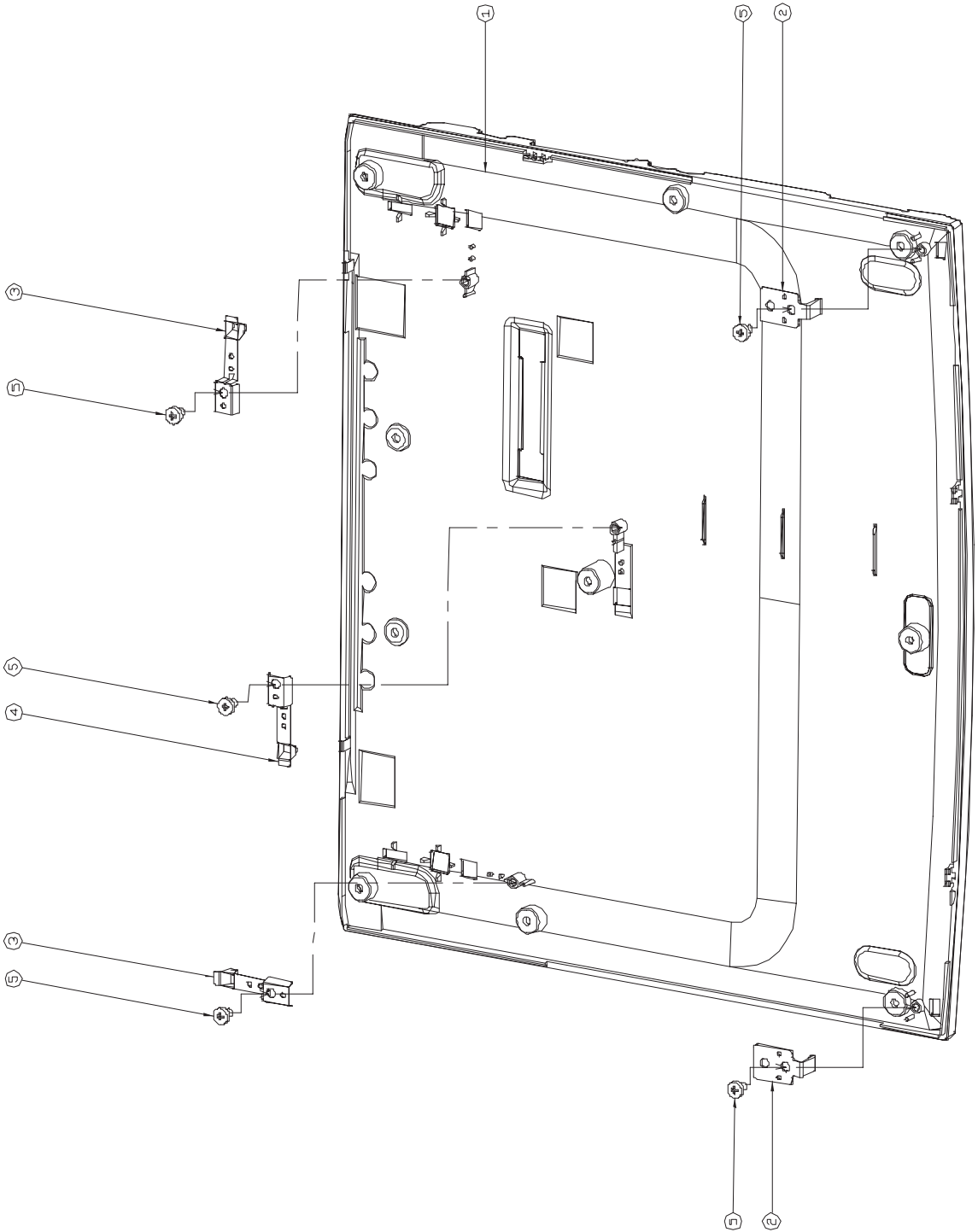
6 Docking Exploded View and Parts List

6-1 UNIT_DOCK_BOTTOM_ASSY



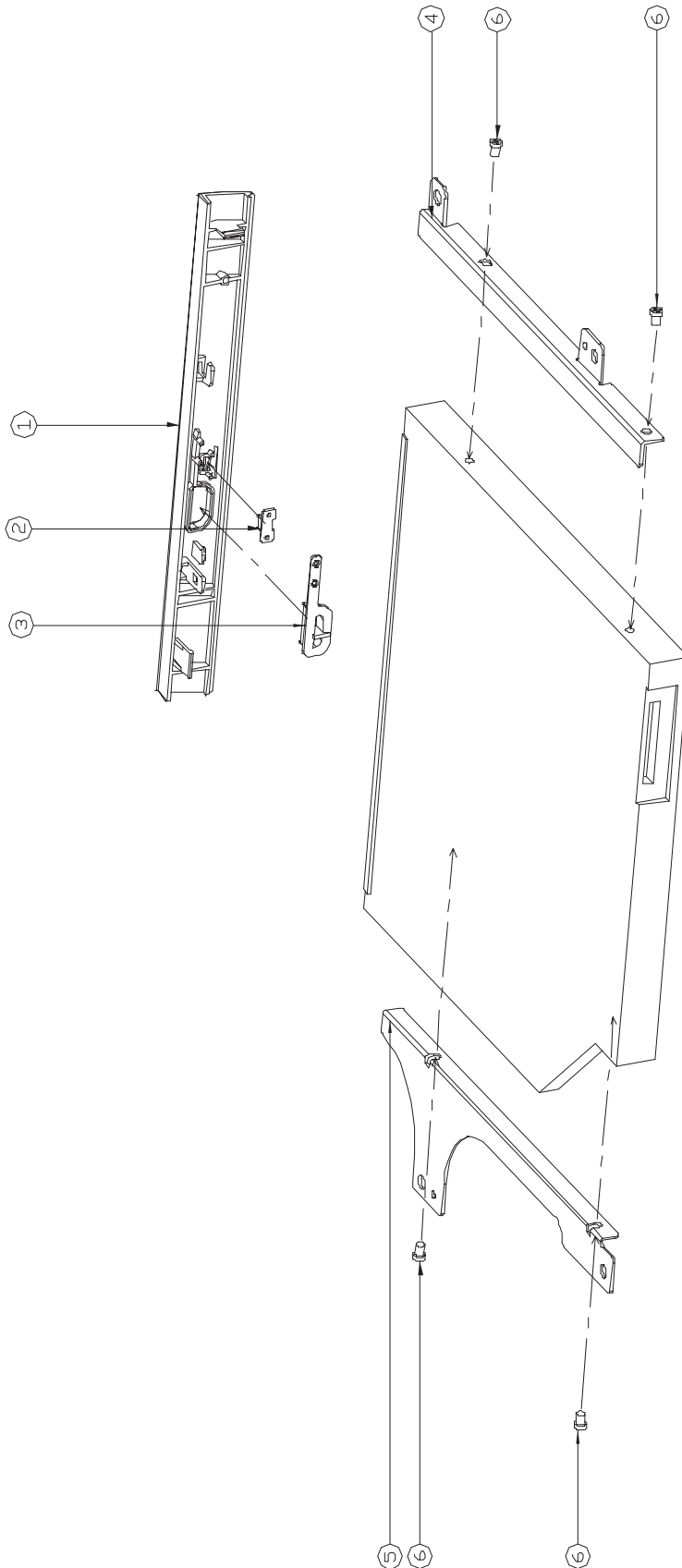
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-BOTTOM DOCK	BA61-00728A	PC/ABS, TALC	1	NEW
2	LEVER-EJECT R	BA66-00044A	PC/ABS	1	NEW
3	LEVER-EJECT L	BA66-00043A	PC/ABS	1	NEW
4	HOLDER-HOOK R(BW)	BA72-00679A	PC/ABS	1	COMMON
5	HOLDER-HOOK L(BW)	BA72-00678A	PC/ABS	1	COMMON
6	LEVER-SUPPORTER R	BA72-00663A	POM	1	COMMON
7	LEVER-SUPPORTER L	BA72-00662A	POM	1	COMMON
8	LEVER-PUSHER (BW)	BA72-00666A	PC/ABS	2	COMMON
9	LEVER-SLIDER R	BA72-00665A	POM	1	COMMON
10	LEVER-SLIDER L	BA72-00664A	POM	1	COMMON
11	KNOB-LINK-KEN	BA64-00196A	PC/ABS	1	COMMON
12	LINK DEVICE	BA72-00639A	PC/ABS	1	COMMON
13	WASHER	BA70-00630A	SUS304 T0.2	3	COMMON
14	BRKT-LINK-KEN	BA61-00169A	SUS304 T0.8	1	COMMON
15	SPRING-LINK-KEN	BA61-00212A	SWP T0.5	1	COMMON
16	SPRING-EJECT-KNOB	BA61-00092A	SWP T0.3	2	COMMON
17	SPRING-LEVER R	BA61-00088A	SWP T0.7	1	COMMON
18	SPRING-LEVER L	BA61-00087A	SWP T0.7	1	COMMON
19	SCREW MACHINE	6001-001407	M2.6XL6, BH, YEL	4	COMMON
20	SCREW MACHINE	6001-001409	M3.0XL10, BH, NIPLE	2	COMMON
21	SCREW MACHINE	BA60-00031A	M2.0XL5, CH, YEL, +	2	COMMON

6-2 UNIT_DOCK_TOP_ASSY



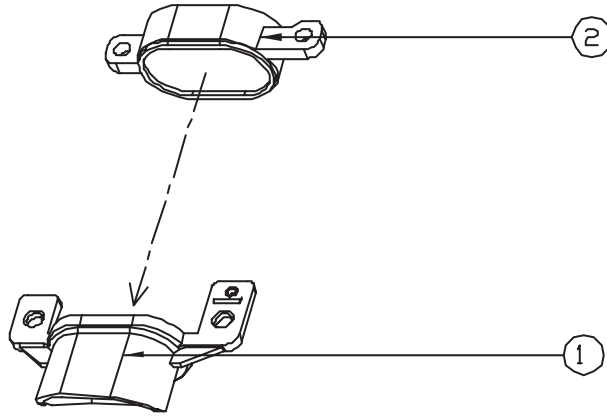
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	HOUSING-TOP	BA61-00727A	PC/ABS, TALC	1	NEW
2	BRKT-FRONT	BA61-00730A	SUS304 T0.8	2	NEW
3	GEM(N)-SPRING-PLATE	BA70-00552B	SUS304 T0.2	2	COMMON
4	SPRING-PLATE	BA70-00552A	SUS304 T0.2	1	NEW
5	SCREW-TAPPING	6002-001154	M2.6, L4, PH, YEL	1	COMMON
6					
7					

6-3 UNIT_DOCK_COMBO_ASSY



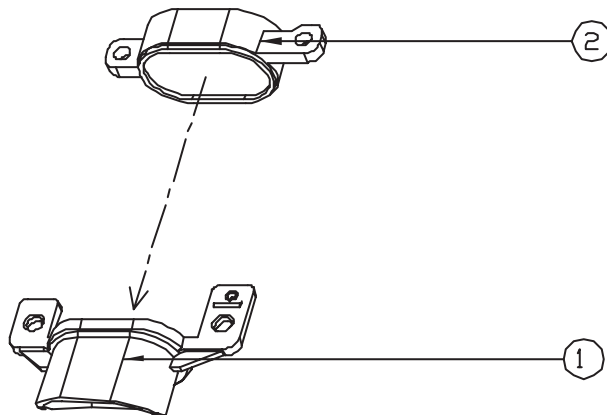
NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	BEZEL COMBO 9.5	BA64-00521A	PC/ABS	1	NEW
2	LENS COMBO 9.5	BA67-00167A	PMMA SMOG	1	COMMON
3	KNOB COMBO 9.5	BA64-00522A	PC/ABS	1	NEW
4	BRACKET DEVICE L	BA61-00731A	SUS304 T0.6	1	NEW
5	BRACKET DEVICE R	BA61-00732A	SUS304 T0.6	1	NEW
6	SCREW MACHINE	6001-001446	M2.0XL2.5, CH, YEL	4	COMMON

6-4 UNIT_DOCK_SPEAKER_L



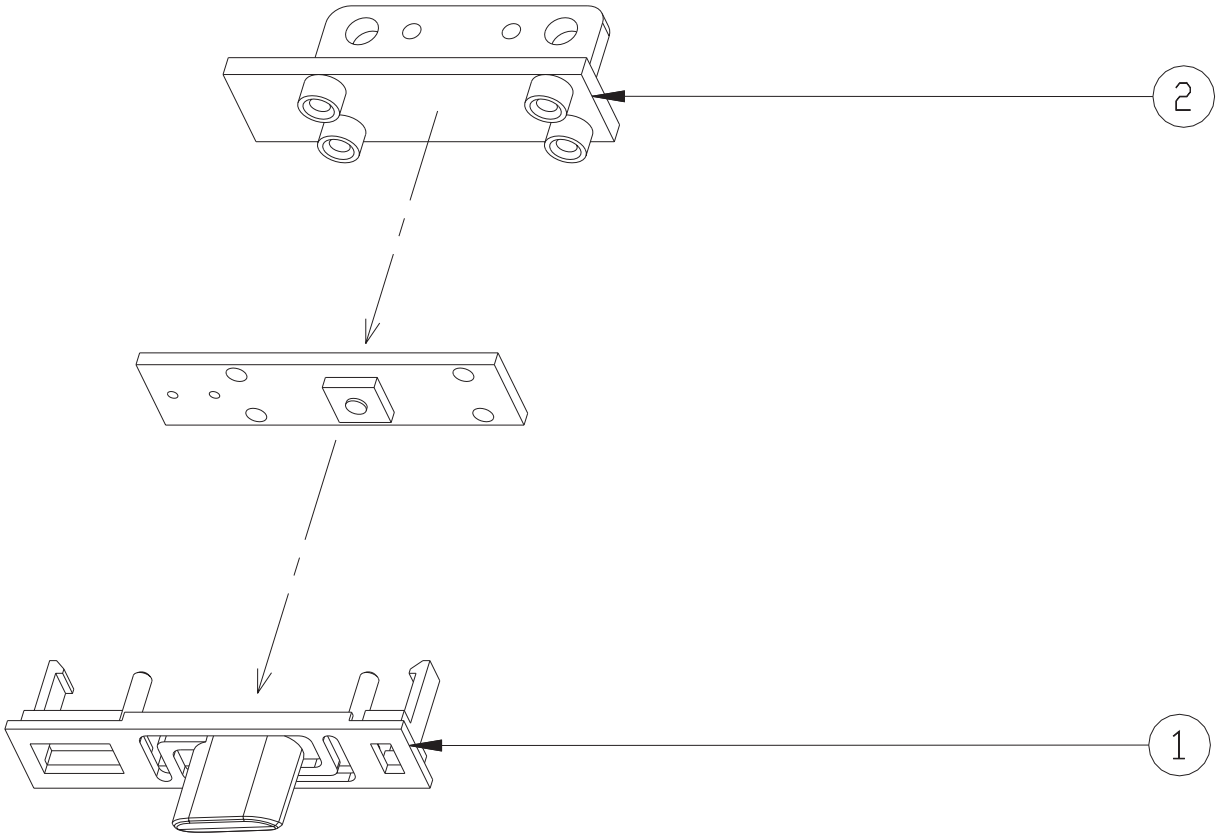
NO	PART NAME	SEC CODE	SPECIFICATION	Q'TY	REMARK
1	SPEAKER CAP L	BA67-00209A	ABS	1	NEW
2	ASSY SPEAKER	BA96-02091A		2	NEW

6-5 UNIT_DOCK_SPEAKER_R



NO	PART NAME	SEC CODE	SPECIFICATION	Q'TY	REMARK
1	SPEAKER CAP R	BA67-00210A	ABS	1	NEW
2	ASSY SPEAKER	BA96-02092A		2	NEW

6-6 UNIT_DOCK_UNDOCK_ASSY



NO	PART NAME	CODE NO	SPECIFICATION	Q'TY	REMARK
1	KNOB UNDOCK	BA64-00519A	ABS	1	NEW
2	KNOB UNDOCK BASE	BA64-00520A	ABS	1	NEW

6-7 CETUS_PR_생산BOM

IC				
Reference	PART NAME	VENDOR	Q'ty	DESCRIPTION
U1	SP3243E	SIPEX	1	RS-234 Transceiver
U11	AT24C64N	ATMEL	1	2wire serial eeprom
U12	CY7C68013	CYPRESS	1	USB peripheral controller
U5	TPS3809J25	TI	1	supply voltage supervisors
U15	S1R72901	EPSON	1	1394 controller
U4,U8,U16	NC7SZ125M5X	FAIRCHILD	3	buffer with 3state output
U2	LM4863MTE	NS	1	2.2w dual audio Amp
U3	LM358M	NS	1	Dual Amp
U7	LM4861M	NS	1	1.1w audio power Amp
U10	RC1117ST	FAIRCHILD	1	1A Adjustable/Fixed Low Dropout Linear Regulator
RN1	PACS1284	CMD	1	Parallel port terminal network
U9	LTC1624CS8	LINEAR	1	N channel switching Controller
P1	H0022	PULSE	1	pc card Lan Magnetic solution
TR & FET & DIODE				
Reference	PART NAME	VENDOR	Q'ty	DESCRIPTION
Q1, Q5	2N7002	FAIRCHILD	2	N CHANNE FET
FET1	SI4435DY	VISHAY	1	P CHANNEL 30V(D-S) MOSFET
Q2	SI4410DY	VISHAY	1	P CHANNEL 30V(D-S) MOSFET
D8	SS24	GS	1	2.0A SCHOTTKY BARRIER RECTIFIER
Q7	KST2222A	FAIRCHILD	1	NPN SILICON TRANSISTOR
D1,D2,D3,D4,D10	MMBD4148	FAIRCHILD	5	SWITCHING DIODE
Q3,Q4	NDC7001C	FAIRCHILD	2	Dual N/P channel FET
D5	KSR1102	FAIRCHILD	1	NPN SILICON TRANSISTOR
X-TAL				
Reference	PART NAME	VENDOR	Q'ty	DESCRIPTION
X1	24MHZ	SUNNY	1	24MHZ
X2	24.576MHZ	EPSON	1	24.576 50PPM
CONNECTOR & SWITCH				
Reference	PART NAME	VENDOR	Q'ty	DESCRIPTION
J10,J15,J23,J24,J25	12513WR-02A00	연호전자	5	2P 1.25mm PITCH, RIGHT ANGLE
J11	DZ11A92-WL31	FOXCONN	1	DSUB FEMALE 15P CRT

J12	35136S-06T1-CK	SUYIN	1	MINIDIN ,6P, PS2
J14	20015S-40G2T	SUYIN	1	2.0mm DUAL LOW BOX HEADERPCB MOUNT
J16	1394-CONN_54516-0411	MOLEX	1	1394 CONN.
J17,J20	SPEAKER_CABLE_51146-02P	윌텍	2	SPDIF, DOCKING EJECT CABLE
	YEONHO-12505WS-10A00	YEONHO	0	10P,1.25mm PITCH STRAIGHT
J19	HDD-44P_B067-ECC6-441	SPEEDTECH	1	2.0mm*2.0mm DUAL LOW DIP TYPE WRIGHT ANGLE
J2	DZ11392-WH31	FOXCONN	1	DSUB FEMALE 25P, PARALLEL
J21	RCA_RC25-01T1	SUYIN	1	
J22	SUYIN-20036S-40G2T-03	SUYIN	1	2.0mm DUAL LOW SOCKET PCB MOUNT
J26	CD-ROM_K211_2501_507	SPEEDTECH	1	0.8mm PITCH RIGHT ANGLE SMT MOUNT TYPE
J3	WD-100P4V-VF120-N-A	JAE	1	
J4	USB_2522AY-08GXT-M	SUYIN	1	USB_CONN_4P DUAL PORT DIP TYPE
J5	DZ11392-1	FOXCONN	1	DSUB MALE,9P SERIAL
J9	RJ45-8P-LED4P-2MNT-2NC	AMP	1	MODULAR JACK 8POSITION RIGHT ANGLE
SW1	SW-SMD-4P_SMF10918	TACT	1	DIP SWITCH 4P
J1	DC-JACK_PDJ010	박전자	1	DC JACK , 2.5

INDUCTOR & BEAD & FUSE

Reference	PART NAME	VENDOR	Q'ty	DESCRIPTION
L1,L2,L5,L6,L32,L34,L35,L46.L47	2000HM-100MHZ	TDK	9	COMMON MODE CHOKE KOILS
L9,L10,L11,L12,L13,L14.L15,L16,L17, L18,L19,.L20,L22,L26,L27,L28,L29, L36,L37,L38,L39,L40,L41,L42	MMZ1608S121AT	TDK	24	
L23,L24,L25	CIM10J800NE	SEM	3	
L3,L4	EXCML32A680U-3A	PANASONIC	2	
L7,L8,L30,L31,L43,L44.L45	CIC21J21NE	SEM	7	
L33	10UH	TOKO	1	INDUCTOR 10UH, 20%, DECREASE(4.3A),RISE(4.5A)
L49	10UH	TOKO	1	INDUCTOR 10UH D53LC
	68UH	SEM	0	
F1,F2,F3	MINISMD110	RAYCHEM	3	POLY SWITCH MINI SMD PRODUC DATA

RESISTOR

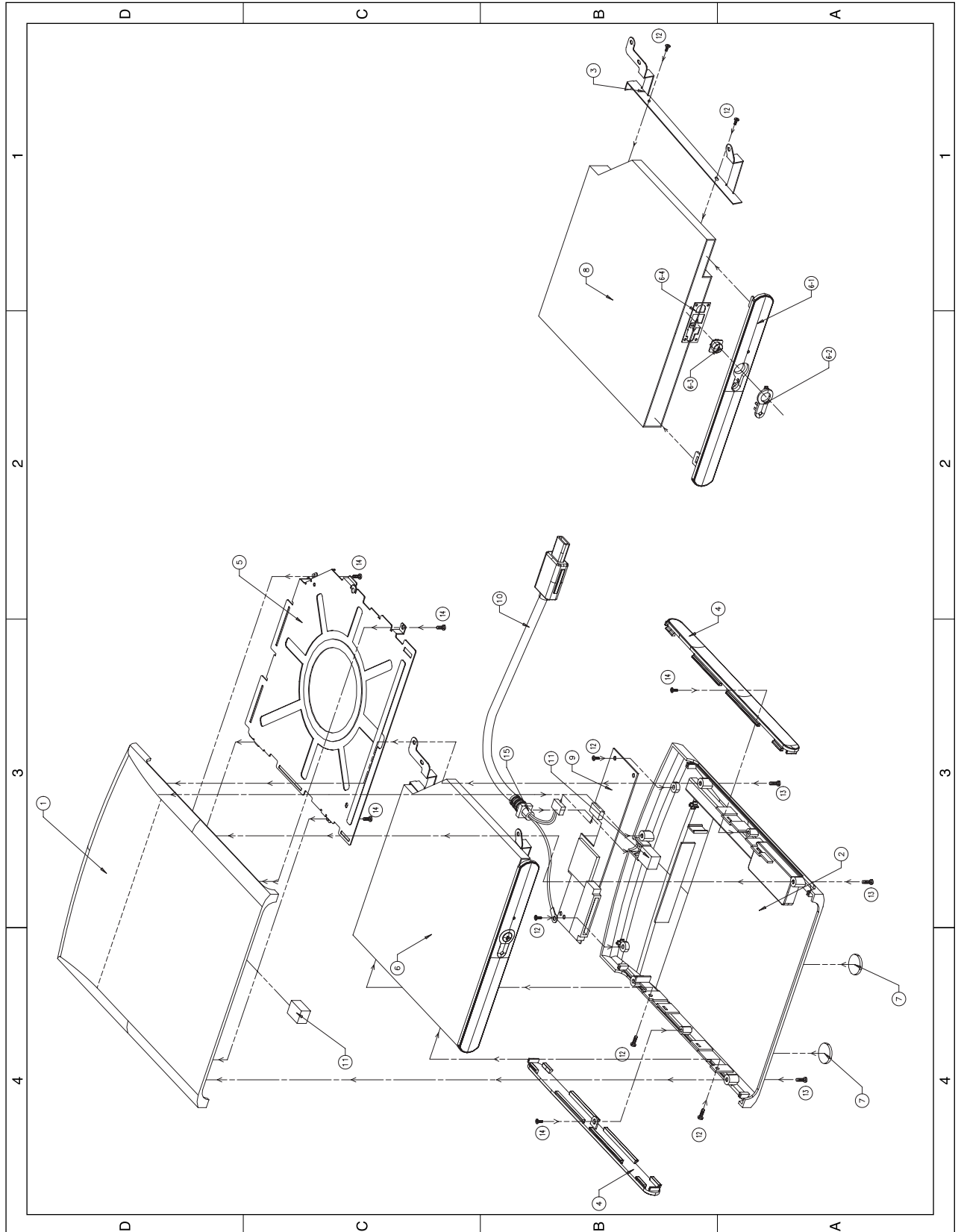
Reference	PART NAME	VENDOR	Q'ty	DESCRIPTION
R50	0.02-1% 1W	VISHAY	1	0.02-1% 1W 6432
R3,R62,R63,R69,R75,R116,R130	0	SEM	7	0 ohm, 1/16W
R38,R40	10	SEM	2	10 Ohm, 1/16W

R46,R74,R76,R77,R78,R79,R80,R85, R86,R92,R106,R107,R114,R117, R118,R119,R120,R121,R122,R123, R124,R125,R126,R127,R128,R133	33	SEM	26	33 Ohm, 1/16W
R37,R39	47	SEM	2	47 Ohm, 1/16W
R93,R94,R95,R97,R99,R100,R101, R102,R104,R105	56	SEM	10	56 Ohm, 1/16W
R27,R28,R30,R31	75	SEM	4	75 Ohm, 1/16W
R29	100	SEM	1	100 Ohm, 1/16W
	61.9-1%	SEM	0	61.9 Ohm, 1/16W
R48	100-1%	SEM	1	100 Ohm, 1/16W
R32,R33,R34	200	SEM	3	200 Ohm, 1/16W
R26,R52	220	SEM	2	220 Ohm, 1/16W
R53	360	SEM	1	360 Ohm, 1/16W
R24	390	SEM	1	390 Ohm, 1/16W
R113	470	SEM	1	470 Ohm, 1/16W
R2,R60,R65,R72,R90	1K	SEM	5	1K OHM 1/16W
	2.2K	SEM	0	2.2K OHM 1/16W
R67,R88,R89,R108	4.7K	SEM	4	4.7K OHM 1/16
R96,R98	5.1K-1%	SEM	2	5.1K OHM 1/16W
R61,R91	5.6K	SEM	2	5.6K OHM 1/16W
R103	6.34K-1%	SEM	1	6.34K OHM 1/16W
R45	6.8K	SEM	1	6.8K OHM 1/16W
R7,R12,R13,R57,R58,R64,R73,R81, R82,R109,R110,R111,R112,R115, R131	10K	SEM	15	10K OHM 1/16W
R56	11K	SEM	1	11K OHM 1/16W
R1,R21,R49,R83	20K	SEM	4	20K OHM 1/16W
R47	22K	SEM	1	22K OHM 1/16W
R84	30K	SEM	1	30K OHM 1/16W
R18	39K	SEM	1	39K OHM 1/16W
R54	43K	SEM	1	43K OHM 1/16W
R16,R17,R41	47K	SEM	3	47K OHM 1/16W
R19,R20	51K	SEM	2	51K OHM 1/16W
R14,R15	68K-1%	SEM	2	68K OHM 1/16W
R4,R5,R9,R11,R44,R59	100K	SEM	6	100K OHM 1/16W
R42,R43	100K-1%	SEM	2	100K OHM 1/16W
R6,R55	200K	SEM	2	200K OHM 1/16W
R8,R10	300K	SEM	2	300K OHM 1/16W
RA2,RA3,RA4,RA5,RA6,RA7,RA10, RA11	33	SEM	8	33 Ohm, 5% 1/16W,1608 4ArRRAY

TCAP & ECAP & CERAMIC CAP

Reference	PART NAME	VENDOR	Q'ty	DESCRIPTION
D6,D7,D11,D12	PGB0010603MR	LITTLE FUSE	4	5PF,50V,5%,NPO
C15	5.6PF	SEM	1	5.6PF,50V,5%,NPO
C95,C96	15PF	SEM	2	15PF,50V,5%,NPO
C36,C37,C38,C59,C60	22PF	SEM	5	22PF,50V,5%,NPO
C9,C10,C28,C29	47PF	SEM	4	47PF,50V,5%,NPO
C30,C41,C43,C45,C46,C50,C53,C80, C81,C90,C113,C114,C119	100PF	SEM	13	100PF,50V,5%,NPO
C39,C40,C42,C44,C91,C92	220PF	SEM	6	220PF,50V,5%,NPO
C35	270PF	SEM	1	270PF,50V,5%,NPO
C16,C17,C18,C19,C20,C21,C22,C23	470PF	SEM	8	470PF,50V,5%,NPO
C27,C48,C51,C104,C105,C106, C107,C108	1NF	SEM	8	1NF,50V,10%,X7R
C34	1NF 2KV	TDK	1	1N,2KV
C8,C31,C56,C67,C69,C75,C77	10NF	SEM	7	10NF,50V,10%,X7R
C1,C2,C3,C4,C5,C6,C7,C24,C33,C47, C49,C52,C54,C55,C57,C58,C61,C62, C68,C70,C71,C72,C73,C74,C76,C78, C79,C82,C83,C84,C85,C97,C98,C99, C100,C101,C102,C103,C109,C110, C111,C115,C116,C117,C118,C120, C121,C122,C123,C124,C129,C130, C131,C132,C133,C134,C135,C136, C137,C138,C139	100NF	SEM	61	100NF,25V,-20~+80%, Y5V
C11,C12,C13,C14,C25,C26,C93,C94, C125,C126,C127,C128	1UF	SEM	12	1UF,16V,-20~+80%,Y5V
C63,C66,C86,C87,C88,C89,C112	4.7UF	SEM	0	4,7UF, 16V C3216 변경 (수습)
VC1,VC2	10UF/6.3V	SEM	7	10UF,6.3V
TC1,TC4,TC5,	68UF-25V	SANYO	2	68UF,25V
TC2,TC3	100UF/10V	SEM	3	100UF,10V
PC1,PC2	150UF-6.3V	PANASONIC	2	
	150UF-6.3V	SANYO	2	150UF, 6.3V

9 Ext-Device Exploded View and Parts List



NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA72-01140A	CASE-TOP-DVD, EXT	PC/ABS TALC	1	
2	BA72-01141A	CASE-BOTTOM-DVD, EXT	PC/ABS TALC	1	
3	BA61-00170A	BRKT-DVD, EXT	SUS 0.8T	1	
4	BA72-01142A	COVER-SIDE, EXT	PC/ABS	2	
5	BA61-00171A	BRKT-COVER-TOP, EXT	SUS 0.5T	1	
6	BA75-00682A	UNIT-BEZEL-DVD, EXT		1	DVD
	BA75-10042A	UNIT-BEZEL-CDRW, EXT		1	CDRW
	BA75-00683A	UNIT-BEZEL-COMBO, EXT		1	COMBO
6-1	BA72-01155A	BEZEL-DVD, EXT	PC/ABS	1	DVD
	BA64-00224A	BEZEL-CDRW, EXT	PC/ABS	1	CDRW
	BA72-01155B	BEZEL-COMBO, EXT	PC/ABS	1	COMBO
6-2	BA67-00103A	LENS-DVD, EXT	확산ACRYL	1	
6-3	BA64-00195A	KNOB-DVD, EXT	PC/ABS	1	
6-4	BA70-00559A	PLATE-DVD, EXT	SUS304 0.15T	1	
7	BA73-00190A	RUBBER-FOOT, EXT	URETHAN	2	
8	BA96-01115A	ASSY-DVD(Toshiba)	회로 자재	1	
	BA96-01116A	ASSY-CDRW(Toshiba)	회로 자재	1	
	BA96-01117A	ASSY-COMBO(Toshiba)	회로 자재	1	
9	Q10 공용자재	EXTERNAL-DEVICE I/F BOARD	회로 자재	1	
10	BA39-00266A	EXTERNAL-DEVICE 1394 CABLE	회로 자재	1	
11	BA63-00129A	GASKET SPDIF	GASKET	2	
12	6001-001446	MACHINE-SCREW(M2.0*2.5 PH YEL)		6	
13	6001-001417	MACHINE-SCREW(M2.0*5.0 PH YEL)		5	
14	6001-001154	MACHINE-TAPPING(M2.6*4.0 PM YEL)		6	
15	Q10 공용자재	EMI 용 동관			

10 Ext-Device Schematic Diagrams and PCB Silkscreen

10-1 Ext-Device Main Board Schematic Diagrams

GEMINI EXT_DEV(1394)

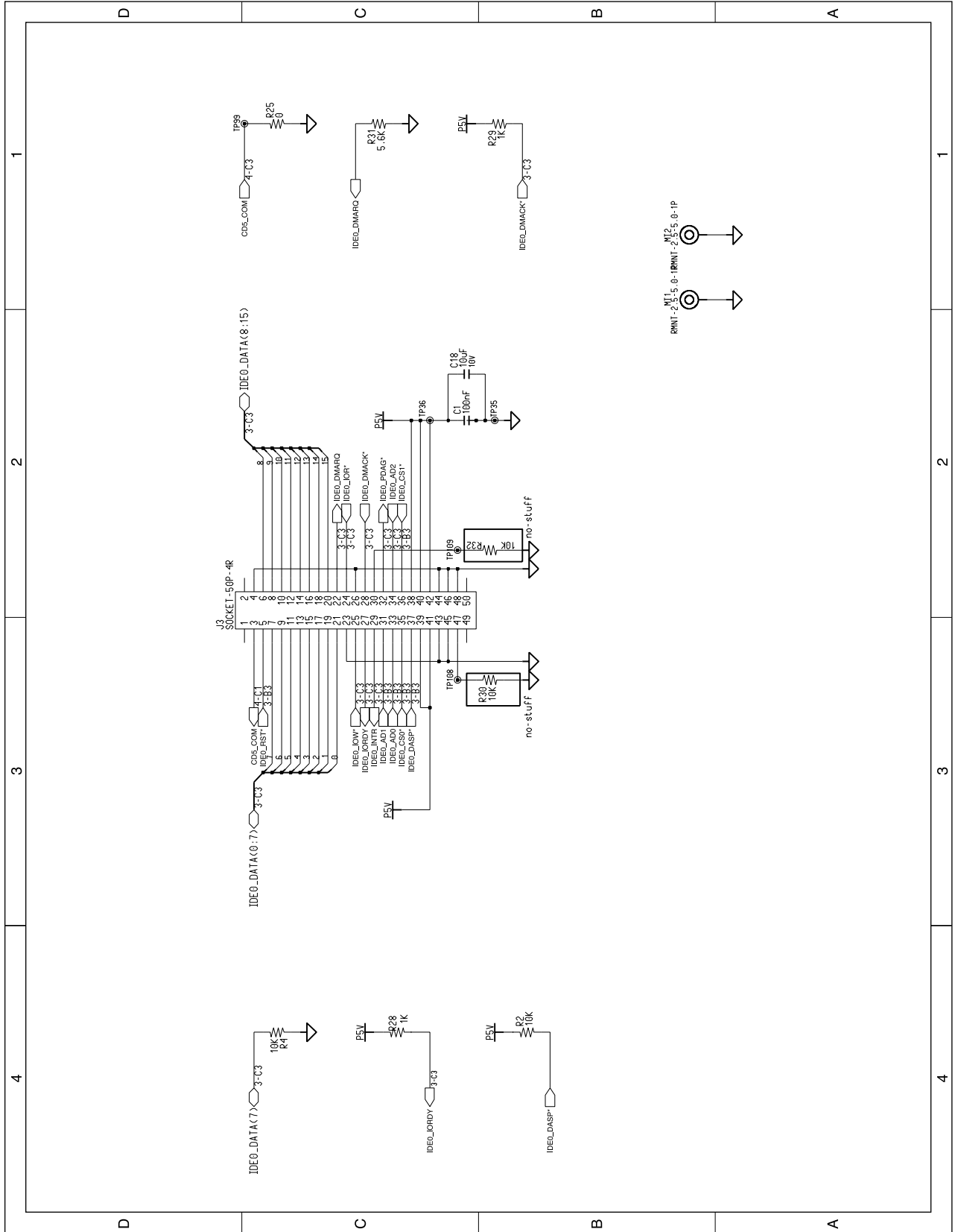
Model Name : GEMINI
PBA Name :
PCB Code : BAXX-xxxxxxx
Dev. Step : MP
Revision : 1.0.0
T.R. Date : 2001.12.18.

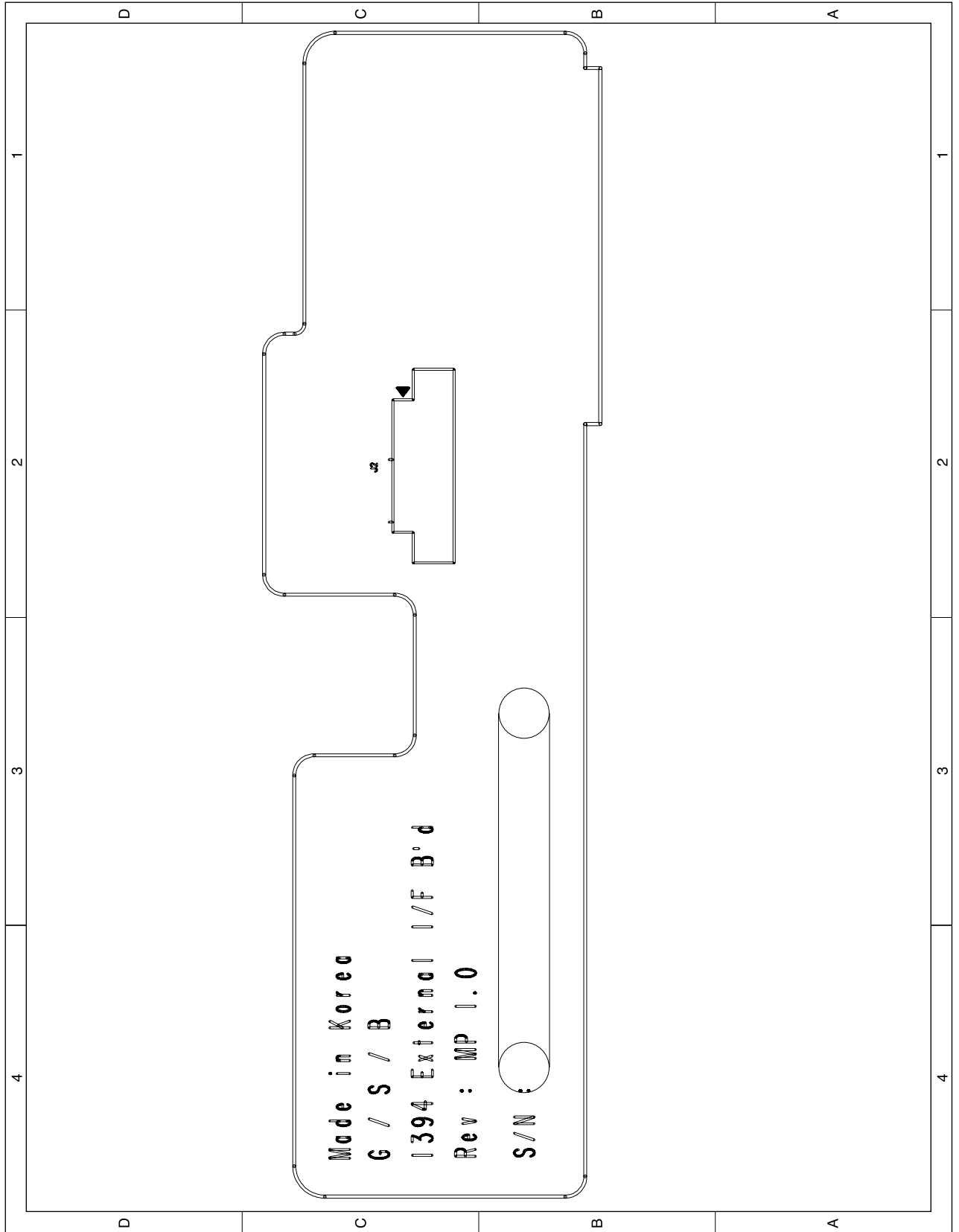
DRAW	CHECK	APPROVAL
TH LEE	MK KIM	BL LEE

[CONTENTS]

SHEET 1	: COVER
SHEET 2	: 1394 PHY
SHEET 3	: 1394 TO IDE
SHEET 4	: IDE CONN
SHEET 5	: POWER

10-1-1(c) Ext-Device Main Board Schematic Sheet 4 of 5(IDE CONN)





10-3 Part List

REF	SEC code	DESCRIPTION
D2	0402-001097	DE-SCHOTTKY;B140,40V,1000MA,DO-214AC,TP, B140
D1	0402-001405	DE-RECTIFIER;B340A,40,3A,SMA,TP, B340A
Q1	0501-000458	SMALL SIGNAL;KST2222ATF,NPN,350mW,SOT-23,TP, KST2222A
QF2	0505-001165	d, FET-SILICON;SI3443DV,P,-20V,+3.5mA,65mohm, SI3443DV
QF1	0505-001197	s_4d, FET-SILICON;SI4450DY,N,60V,+7.5A,0.03ohm,, SI4450DY
U1 U5	0801-002462	CMOS LOGIC;7SZ125,GATE BUFFER,SOT-23,5P,63MIL,, NC7SZ125M5X
U3	0904-001578	IC-BUS CONTROLLER;S1R72803F00A,16BIT,QFP,184P,787, S1R72803
U7	0904-001579	IC-BUS CONTROLLER;SPC7290F0A,-,QFP,64P,394MIL,-,T, SPC7290F
U2	1203-001472	C-SWITCH REG.;1624,SOP,8P,150MIL,PLASTIC,1.1, LTC1624CS8#TR
U4	1203-001964	C-VOL. REFERENCE;1772,SOT-23,6P,60MIL,PLASTIC,1., LTC1772CS6
U6	1203-002364	C-RESET;TPS3809K33,SOT-23,3P,63MIL,PLASTIC,3.3V,, TPS3809
R25	2007-000029	P;0OHM,5%,1/10W,DA,TP,2012
R42	2007-000048	HIP;6.19Kohm,1%,1/16W,DA,TP,1608
R20	2007-000067	HIP;15Kohm,1%,1/16W,DA,TP,1608
R6 R27	2007-000070	P;0ohm,5%,1/16W,DA,TP,1608
R7 R38	2007-000074	P;100ohm,5%,1/16W,DA,TP,1608
R28 R29 R41	2007-000078	P;1Kohm,5%,1/16W,DA,TP,1608
R31	2007-000086	P;5.6Kohm,5%,1/16W,DA,TP,1608
R18	2007-000087	P;6.8Kohm,5%,1/16W,DA,TP,1608
R1 R2 R4 R8 R9 R26	2007-000090	P;10KOHM,5%,1/16W,DA,TP,1608
R30 R32 R33 R34		
R35 R37 R39 R40		
R49 R50		
R21	2007-000102	P;100Kohm,5%,1/16W,DA,TP,1608
R5 R36	2007-000113	P;33ohm,5%,1/16W,DA,TP,1608
R16	2007-000286	HIP;100OHM,1%,1/10W,DA,TP,2012
R3	2007-000586	P;22KOHM,5%,1/10W,DA,TP,2012
R17	2007-000828	HIP;39Kohm,1%,1/16W,DA,TP,1608
R24	2007-000910	HIP;43Kohm,1%,1/16W,DA,TP,1608
R14	2007-000962	HIP;5.1Kohm,1%,1/16W,DA,TP,1608
R10 R11 R12 R13	2007-001044	P;56ohm,5%,1/16W,DA,TP,1608
R19	2007-001161	P;75Kohm,5%,1/16W,DA,TP,1608
R22	2007-002900	HIP;11Kohm,1%,1/16W,DA,TP,1608
R23	2007-002906	HIP;200Kohm,1%,1/16W,DA,TP,1608
R15 R48	2007-007568	CHIP;0.033ohm,1%,1W,DA,TP,6331
RA7	2011-000002	ETWORK;22ohm,5%,63mW,L,CHIP,8P,TP
RA1 RA2 RA3 RA4	2011-000881	ETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP
RA5 RA6		
C1 C5 C14 C16 C17	2203-000189	CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,

REF	SEC code	DESCRIPTION
C19 C20 C21 C22 C23 C26 C28 C40 C41 C42 C47		
C8 C10	2203-000206	RAMIC,CHIP;100nF,10%,50V,X7R,TP,2012
C11 C13	2203-000236	RAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608
C46 C48	2203-000257	RAMIC,CHIP;10nF,10%,50V,X7R,TP,1608
C6 C35	2203-000384	RAMIC,CHIP;0.015nF,5%,50V,NP0,TP,1608
C9 C12 C15 C24 C25 C27 C29 C30 C31 C32 C33 C34 C36	2203-000440	RAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C4	2203-001724	CERAMIC,CHIP;4700NF,+80-20%,16V,Y5V,TP,3216
C2 C3	2203-005137	RAMIC,CHIP;10uF,+80-20%,50V,JE,TP,5650,-
C7	2203-005194	RAMIC,CHIP;220pF,10%,50V,X7R,TP,1608,-
C38 C39	2203-005198	CERAMIC,CHIP;1uF,10%,10V,X5R,TP,2012,-
C18 C43	2203-005437	CERAMIC,CHIP;10000nF,+80-20%,10V,Y5V,TP,3216
C44 C45	2402-001109	LYMER AL CHIP;100uF,20%,6.3V,LZ,TP,7.3x4.3x3.
L2	2703-001432	INDUCTOR-SMD;4.7uH,20%,4x4.5x3.2mm, CD43-4R7MC
L1	2703-002085	INDUCTOR-SMD;10uH,30%,10x10.1x3.8mm, CDRH104R-100MC
Y1	2801-003898	TAL-SMD;24.576MHz,50ppm,28-ACC,12pF,50ohm,TP, FA-365-24.576MHz
J2	3711-002050	r-sm-d-mnt, CONNECTOR-HEADER;BOX,10P,1R,1.25mm,SMD-A,SN, 53261-1090
J1	3711-004900	, CONNECTOR-HEADER;BOX,6P,1R,1.5MM,ANGLE,AU,GRY, 353303-6
J3	517735	r, CONNECTOR-SOCKET;50P,2R,0.8MM,ANGLE,AU, 80093A-050G1
C1	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C2	2203-005137	ccap, C-CERAMIC,CHIP;10uF,+80-20%,50V,JE,TP,5650,-
C3	2203-005137	ccap, C-CERAMIC,CHIP;10uF,+80-20%,50V,JE,TP,5650,-
C4	2203-001724	ccap_v, C-CERAMIC,CHIP;4700NF,+80-20%,16V,Y5V,TP,3216
C5	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C6	2203-000384	ccap, C-CERAMIC,CHIP;0.015nF,5%,50V,NP0,TP,1608
C7	2203-005194	ccap, C-CERAMIC,CHIP;220pF,10%,50V,X7R,TP,1608,-
C8	2203-000206	ccap, C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012
C9	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C10	2203-000206	ccap, C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012
C11	2203-000236	ccap, C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608
C12	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C13	2203-000236	ccap, C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608
C14	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C15	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C16	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C17	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,

REF	SEC code	DESCRIPTION
C18	2203-005437	ccap_v, C-CERAMIC,CHIP;10000nF,+80-20%,10V,Y5V,TP,3216
C19	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C20	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C21	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C22	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C23	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C24	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C25	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C26	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C27	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C28	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C29	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C30	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C31	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C32	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C33	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C34	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C35	2203-000384	ccap, C-CERAMIC,CHIP;0.015nF,5%,50V,NP0,TP,1608
C36	2203-000440	ccap, C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-
C38	2203-005198	ccap_v, C-CERAMIC,CHIP;1uF,10%,10V,X5R,TP,2012,-
C39	2203-005198	ccap_v, C-CERAMIC,CHIP;1uF,10%,10V,X5R,TP,2012,-
C40	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C41	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C42	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C43	2203-005437	ccap_v, C-CERAMIC,CHIP;10000nF,+80-20%,10V,Y5V,TP,3216
C44	2402-001109	ecap, C-POLYMER AL CHIP;100uF,20%,6.3V,LZ,TP,7.3x4.3x3.
C45	2402-001109	ecap, C-POLYMER AL CHIP;100uF,20%,6.3V,LZ,TP,7.3x4.3x3.
C46	2203-000257	ccap, C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608
C47	2203-000189	ccap_v, C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,
C48	2203-000257	ccap, C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608
D1	0402-001405	diode, DIODE-RECTIFIER;B340A,40,3A,SMA,TP, B340A
D2	0402-001097	diode, DIODE-SCHOTTKY;B140,40V,1000MA,DO-214AC,TP, B140
J1	3711-004900	head-6s-1r, CONNECTOR-HEADER;BOX,6P,1R,1.5MM,ANGLE,AU,GRY, 353303-6
J2	3711-002050	head-10s-1r-smd-mnt, CONNECTOR-HEADER;BOX,10P,1R,1.25mm,SMD-A,SN, 532
J3	517735	sock-50z-4r, CONNECTOR-SOCKET;50P,2R,0.8MM,ANGLE,AU, 80093A-050G1
L1	2703-002085	inductor, INDUCTOR-SMD;10uH,30%,10x10.1x3.8mm, CDRH104R-100MC
L2	2703-001432	inductor, INDUCTOR-SMD;4.7uH,20%,4x4.5x3.2mm, CD43-4R7MC
Q1	0501-000458	npn_tr, TR-SMALL SIGNAL;KST2222ATF,NPN,350mW,SOT-23,TP, KST2222A
QF1	0505-001197	nmos_fet_3s_4d, FET-SILICON;SI4450DY,N,60V,+7.5A,0.03ohm,, SI4450DY

REF	SEC code	DESCRIPTION
QF2	0505-001165	pmos_fet_4d, FET-SILICON;SI3443DV,P,-20V,+3.5mA,65mohm, SI3443DV
R1	2007-000090	res, R-CHIP;10KOHM,5%,1/16W,DA,TP,1608
R2	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R3	2007-000586	res, R-CHIP;22KOHM,5%,1/10W,DA,TP,2012
R4	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R5	2007-000113	res, R-CHIP;33ohm,5%,1/16W,DA,TP,1608
R6	2007-000070	res, R-CHIP;0ohm,5%,1/16W,DA,TP,1608
R7	2007-000074	res, R-CHIP;100ohm,5%,1/16W,DA,TP,1608
R8	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R9	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R10	2007-001044	res, R-CHIP;56ohm,5%,1/16W,DA,TP,1608
R11	2007-001044	res, R-CHIP;56ohm,5%,1/16W,DA,TP,1608
R12	2007-001044	res, R-CHIP;56ohm,5%,1/16W,DA,TP,1608
R13	2007-001044	res, R-CHIP;56ohm,5%,1/16W,DA,TP,1608
R14	2007-000962	res_t, R-CHIP;5.1Kohm,1%,1/16W,DA,TP,1608
R15	2007-007568	res_pt, R-CHIP;0.033ohm,1%,1W,DA,TP,6331
R16	2007-000286	res_t, R-CHIP;100OHM,1%,1/10W,DA,TP,2012
R17	2007-000828	res_t, R-CHIP;39Kohm,1%,1/16W,DA,TP,1608
R18	2007-000087	res, R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608
R19	2007-001161	res, R-CHIP;75Kohm,5%,1/16W,DA,TP,1608
R20	2007-000067	res_t, R-CHIP;15Kohm,1%,1/16W,DA,TP,1608
R21	2007-000102	res, R-CHIP;100Kohm,5%,1/16W,DA,TP,1608
R22	2007-002900	res_t, R-CHIP;11Kohm,1%,1/16W,DA,TP,1608
R23	2007-002906	res_t, R-CHIP;200Kohm,1%,1/16W,DA,TP,1608
R24	2007-000910	res_t, R-CHIP;43Kohm,1%,1/16W,DA,TP,1608
R25	2007-000029	res, R-CHIP;0OHM,5%,1/10W,DA,TP,2012
R26	2007-000090	res, R-CHIP;10KOHM,5%,1/16W,DA,TP,1608
R27	2007-000070	res, R-CHIP;0ohm,5%,1/16W,DA,TP,1608
R28	2007-000078	res, R-CHIP;1Kohm,5%,1/16W,DA,TP,1608
R29	2007-000078	res, R-CHIP;1Kohm,5%,1/16W,DA,TP,1608
R30	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R31	2007-000086	res, R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608
R32	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R33	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R34	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R35	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R36	2007-000113	res, R-CHIP;33ohm,5%,1/16W,DA,TP,1608
R37	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R38	2007-000074	res, R-CHIP;100ohm,5%,1/16W,DA,TP,1608

REF	SEC code	DESCRIPTION
R39	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R40	2007-000090	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608
R41	2007-000078	res, R-CHIP;1Kohm,5%,1/16W,DA,TP,1608
R42	2007-000048	res_t, R-CHIP;6.19Kohm,1%,1/16W,DA,TP,1608
R48	2007-007568	res_pt, R-CHIP;0.033ohm,1%,1W,DA,TP,6331
R49	2007-000090	res, R-CHIP;10KOHM,5%,1/16W,DA,TP,1608
R50	2007-000090	res, R-CHIP;10KOHM,5%,1/16W,DA,TP,1608
RA1	2011-000881	rmeta, R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP
RA2	2011-000881	rmeta, R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP
RA3	2011-000881	rmeta, R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP
RA4	2011-000881	rmeta, R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP
RA5	2011-000881	rmeta, R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP
RA6	2011-000881	rmeta, R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP
RA7	2011-000002	rmeta, R-NETWORK;22ohm,5%,63mW,L,CHIP,8P,TP
U1	0801-002462	7s125, IC-CMOS LOGIC;7SZ125,GATE BUFFER,SOT-23,5P,63MIL,, NC7SZ125M5X
U2	1203-001472	ltc1624, IC-SWITCH REG.;1624,SOP,8P,150MIL,PLASTIC,1.1, LTC1624CS8#TR
U3	0904-001578	s1r72803, IC-BUS CONTROLLER;S1R72803F00A,16BIT,QFP,184P,787, S1R72803
U4	1203-001964	ltc1772, IC-VOL. REFERANCE;1772,SOT-23,6P,60MIL,PLASTIC,1., LTC1772CS
U5	0801-002462	7s125, IC-CMOS LOGIC;7SZ125,GATE BUFFER,SOT-23,5P,63MIL,, NC7SZ125M5X
U6	1203-002364	tps3809, IC-RESET;TPS3809K33,SOT-23,3P,63MIL,PLASTIC,3.3V,, TPS3809
U7	0904-001579	spc7290f, IC-BUS CONTROLLER;SPC7290F0A,-,QFP,64P,394MIL,-,T, SPC7290F
Y1	2801-003898	xtal, CRYSTAL-SMD;24.576MHz,50ppm,28-ACC,12pF,50ohm,TP, FA-365-24.576

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Sens Q 20 Series Service Manual
First edition February 2003-02-19

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1 Specifications

1-1 Safety Precautions

1-1-1 Federal Communications Commission (FCC) Radio Frequency Interference Statement

1-1-1(a) Warning

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of FCC Rules. Only peripherals (system input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this system. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

1-1-1(b) Information to User

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Re-orient the receiving antenna.
2. Relocate the system with respect to the receiver.
3. Plug the system into a different outlet so that the system and receiver are on different branch circuits.
4. Move the cables connected to the system to minimize the interference.
5. Tighten all cable screws.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference." This is available at FCC local regional offices. Samsung

Electronics Co., LTD. is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Samsung Electronics Co., LTD. The correction will be the responsibility of the user. Use only shielded data cables with this system.

1-1-2 Canadian Radio Interference Regulations

This apparatus does not exceed the class B limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil n'émet pas de bruits radioélectriques dépassant les limites applicable aux appareils digitaux de la classe B prescrites par le règlement de brouillage radioélectrique dicté par le Ministère des Communications du Canada.

1-1-3 Important Safety Instructions

Read all instructions.

1. Do not use this product near water .
2. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
3. Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered by a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
4. Do not place this product in a location where the cord may be tripped on.
5. Select a work surface that is large enough to hold the Sens Q 20 equipment and any additional items required for your work.
6. Do not allow the battery to be exposed to direct sunlight for extended periods of time.
7. Do not allow anything to rest on the power cord.

8. Never push objects of any kind into this product through the cabinet slots, as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
9. If the product is dropped, the cabinet may be damaged.
10. Do not install or remove the detachable hard disk drive with the system turned on.
11. It indicates a need for service that the product exhibits a distinct change in performance.
12. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth and ISO-propyl alcohol for cleaning.
13. This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
14. If an extension cord is used with this product, make sure it is a 3-pronged, grounded cord and that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
15. Do not attempt to disassemble the battery. The electrolyte contained within it is highly toxic and might cause injury to skin or eyes.
16. Do not short circuit the battery terminals as the resulting high currents can damage the battery.
17. The battery should not be used to power other products.
18. Do not dispose of a used battery in a fire or incinerator.
19. Do not subject the battery to extreme temperature. Battery temperature should be greater than -20°C (-4°F) and less than $+50^{\circ}\text{C}$ (122°F).
20. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the product.
 - If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage.

1-2 Sens Q 20 System Specifications

ITEM	SPECIFICATION	REMARKS
Processor	INTEL Banias-LV(Low Voltage) 1.1 ~ 1.2GHz , PSB 400MHz 0.13micron process technology with copper interconnect Micro-FCBGA 479 AGTL/AGTL+ Type Processor	
Cache Memory	primary 32-Kbyte instruction cache 32-Kbyte write-back data cache 1-Mbyte second level cache with Advanced Transfer Cache Architecture	
Chipsets	Montara-GM / ICH4-M 400MT/s BPSB support (100MHz) 2X Address, 4X Data	
Memory	DDR-SDRAM 256MB/128MB(On Board) + 1-DDR SODIMM Socket (Total Max: 1.2GB)	
Graphics	Integrated GFX (Montara-GM), 4x AGP Compatible, Dual(LCD/CRT) Independent Display Video Memory - DVMT (Max 64MB)	DVMT - Dynamic Video Memory Technology
LCD Display	12.1" XGA TFT	
AUDIO	Cirrus Logic CS4202 - AC'97 Codec - S/PDIF Support(Docking)	
LAN/MODEM	PHY 82562EZ- 10/100 Base-TX Ethernet support AC-97 Compliant MODEM SFM-3200LW	
Wireless	Mini-PCI 802.11a(TBD), 802.11b, 802.11a/b(TBD)	Option
Bluetooth	Mini-PCI SWB-2000m	Option
PCMCIA	Ricoh R5C591 16 & 32bit Card support 1slot, 1Type I/II Cards	
3-in-1 slot	Ricoh R5C591 SD, MMC, Memory Stick	
HDD	None-removable; 9.5mmH HDD, Accepts 2.5"	
Ports	VGA USB 2.0 2EA IEEE1394 Phone Jack Mlc RJ-45(LAN) RJ-11(Modem)	
Pointing Device	Touch pad	Synaptics

ITEM	SPECIFICATION	REMARKS
Keyboard	82Keys: KOR, US International 83Keys: UK English, German, French, Spain	2.0 Travel 18.5 Pitch
Battery	Standard Battery 2P2S, 7.4V, 3800mAh, 28W Long life Battery 4P2S, 7.4V, 8800mAh, 65W	
Adapter	42watts, AC 100~240V Auto select	
Dimension	273 x 234.3 x 19.3(23.5)	
System Weight	1.29kg Include Standard Battery	
Operating System Options	Windows 2000, Windows XP Home/Professional Edition	Not support Win98/SE/ME
System Management	Phoenix Plug and play NoteBIOS with WFM2.0 And SMBIOS 2.3.1 support; 4MB flash Memory	

1-3 Sens Q 20 Docking Specifications

ITEM	SPECIFICATION	REMARKS
HDD	Non-removable; 9.5mmH HDD, Accepts 2.5"	
Ports	1 IEEE1394, 1 Parallel, 1 Serial, 1 VGA, 1 PS/2, 1DC-In, 1 RJ-45, 2 USB 2.0 , 1 SPDIF	
Dimension	274 x 238 x 19.6(14.9)	
System Weight	760g Include only DVD/CD-RW Combo 860g Include DVD/CD-RW Combo and HDD	
2 Bay Device	Left HDD Right DVD/CD-RW Combo Drive	
Undock control	With undock(eject) button	

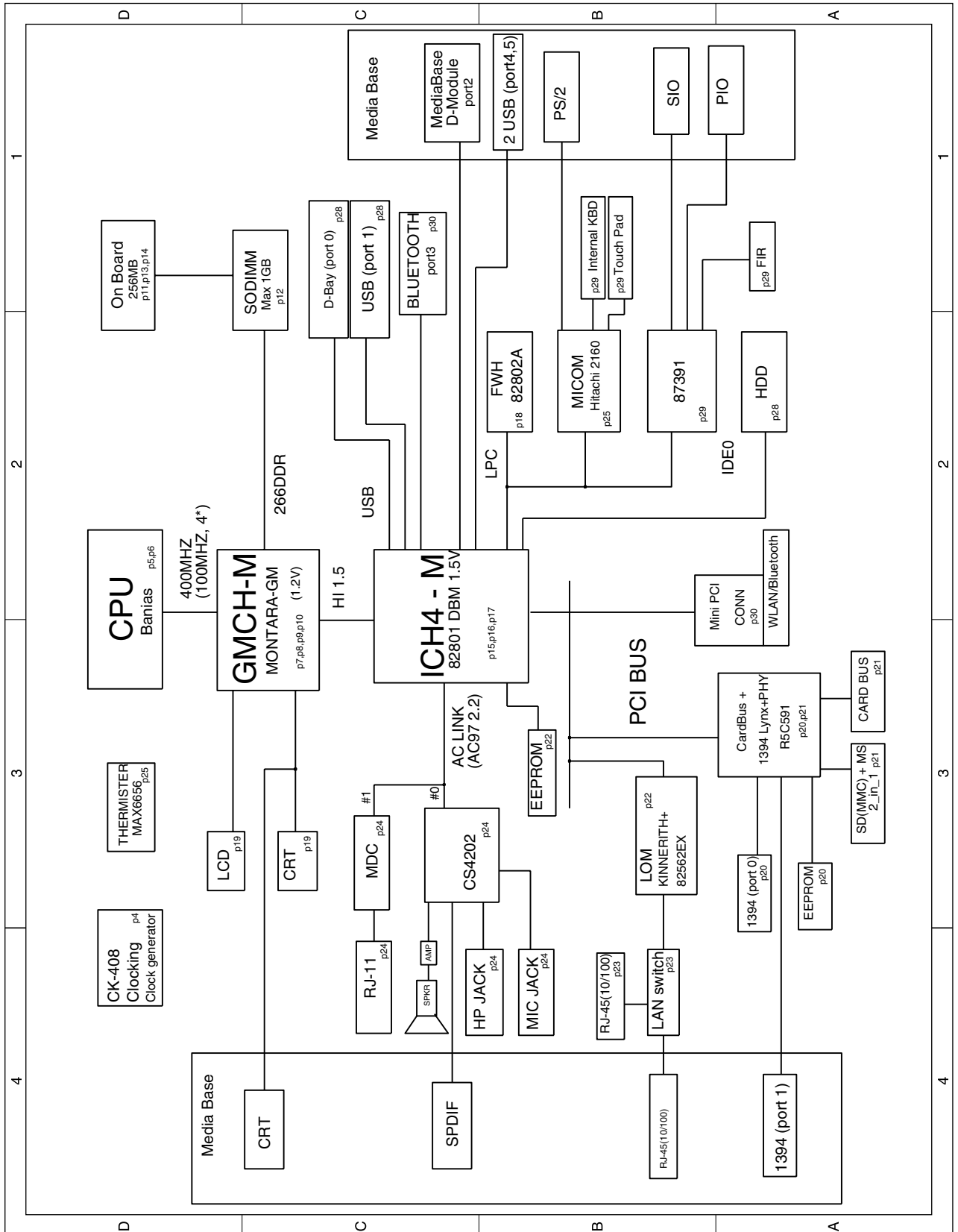
1-4 POST Errors / Beep Codes

Error Codes	Beep Codes	Meaning
02	1-1-1-3	Verify Real Mode
04	1-1-2-1	Get CPU type
06	1-1-2-3	Initialize system hardware
08	1-1-3-1	Initialize chipset registers with initial POST values
09	1-1-3-2	Set in POST flag
0A	1-1-3-3	Initialize CPU registers
0C	1-1-4-1	Initialize cache to initial POST values
0E	1-1-4-3	Initialize I/O
0F	1-1-4-4	Initialize the local bus IDE
10	1-2-1-1	Initialize Power Management
11	1-2-1-2	Load alternate registers with initial POST values
12	1-2-1-3	Restore CR0 after CPU is reset
14	1-2-2-1	Initialize keyboard controller
16	1-2-2-3	BIOS ROM checksum
18	1-2-3-1	8254 timer initialization
1A	1-2-3-3	8237 DMA controller initialization
1C	1-2-4-1	Reset Programmable Interrupt Controller
20	1-3-1-1	Test DRAM refresh
22	1-3-1-3	Test 8742 Keyboard Controller
24	1-3-2-1	Set ES segment register to 4 GB
28	1-3-3-1	Autosize DRAM
2A	1-3-3-3	Clear 512K base RAM
2C	1-3-4-1	Test 512K base address lines
2E	1-3-4-3	Test 512K base memory
32	1-4-1-3	Test CPU bus-clock frequency
34	1-4-2-1	Test CMOS RAM
35	1-4-2-2	Initialize alternate chipset registers
37	1-4-2-4	Reinitialize the chipset(MB only)
38	1-4-3-1	Shadow system BIOS ROM
39	1-4-3-2	Reinitialize the cache (MB only)
3A	1-4-3-3	Autosize cache
3C	1-4-4-1	Configure advanced chipset registers
3D	1-4-4-2	Load alternate registers with CMOS values
40	2-1-1-1	Set initial CPU speed
42	2-1-1-3	Initialize interrupt vectors
44	2-1-2-1	Initialize BIOS interrupts
46	2-1-2-3	Check ROM copyright notice
48	2-1-3-1	Check video configuration against CMOS
49	2-1-3-2	Initialize PCI bus and devices
4A	2-1-3-3	Initialize all video adapters in system
4C	2-1-4-1	Shadow video BIOS ROM
4E	2-1-4-3	Display copyright notice
50	2-2-1-1	Display CPU type and speed
51	2-2-1-2	Initialize EISA board
52	2-2-1-3	Test keyboard
54	2-2-2-1	Set key click if enabled
56	2-2-2-3	Enable keyboard
58	2-2-3-1	Test for unexpected interrupts
5A	2-2-3-3	Display prompt "Press F2 to enter SETUP"
5C	2-2-4-1	Test RAM between 512 and 640K

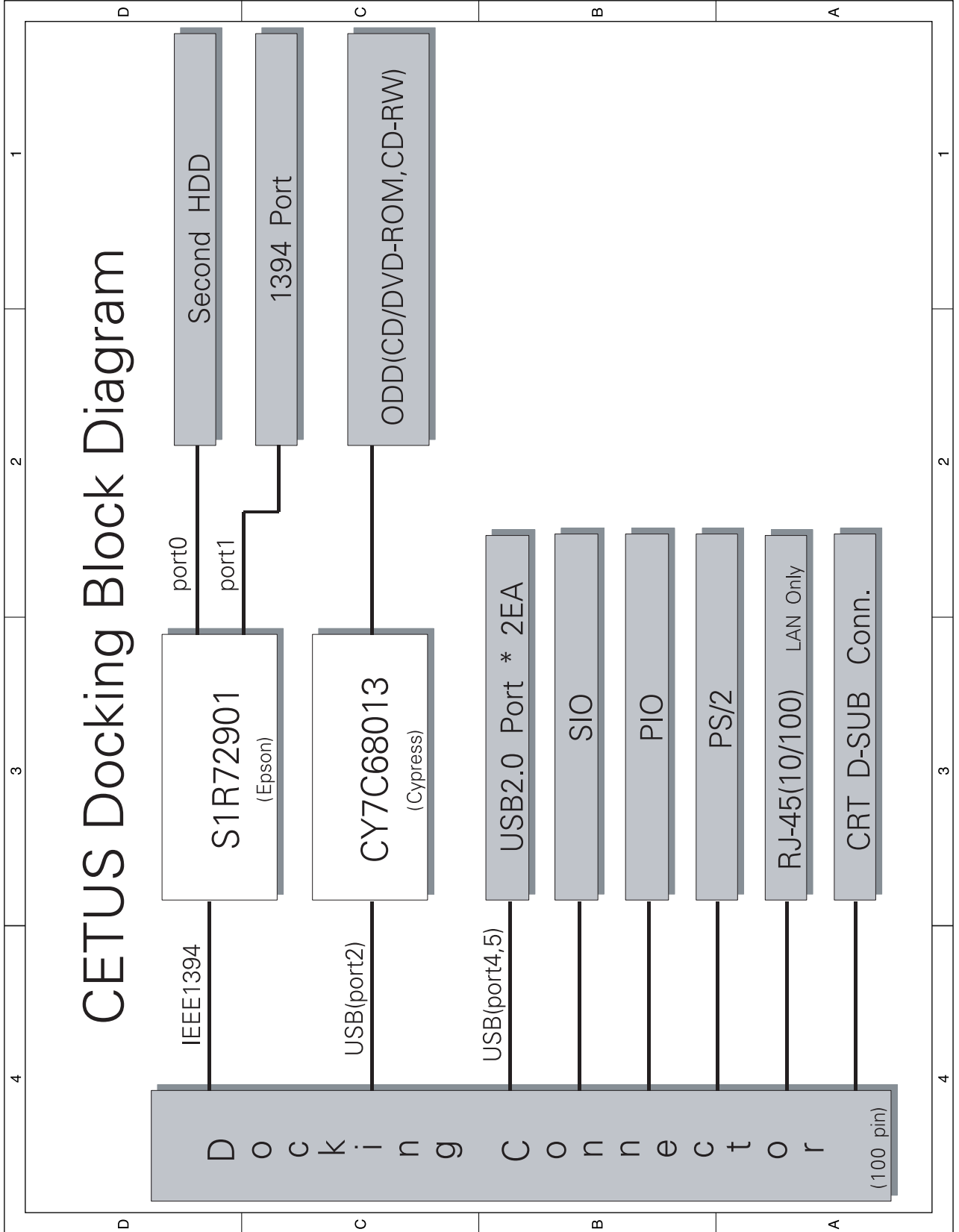
Error Codes	Beep Codes	Meaning
60	2-3-1-1	Test extended memory
62	2-3-1-3	Test extended memory address lines
64	2-3-2-1	Jump to UserPatch1
66	2-3-2-3	Configure advanced cache registers
68	2-3-3-1	Enable external and CPU caches
6A	2-3-3-3	Display external cache size
6C	2-3-4-1	Display shadow message
6E	2-3-4-3	Display non-disposable segments
70	2-4-1-1	Display error message
72	2-4-1-3	Check for configuration errors
74	2-4-2-1	Test real-time clock
76	2-4-2-3	Check for keyboard errors
7C	2-4-4-1	Set up hardware interrupt vectors
7E	2-4-4-3	Test coprocessor if present
80	3-1-1-1	Disable onboard I/O ports
82	3-1-1-3	Detect and install external RS232 ports
84	3-1-2-1	Detect and install external parallel ports
86	3-1-2-3	Re-initialize onboard I/o ports
88	3-1-3-1	Initialize BIOS Data Area
8A	3-1-3-3	Initialize Extended BIOS Data Area
8C	3-1-4-1	Initialize floppy controller
90	3-2-1-1	Initialize hard-disk controller
91	3-2-1-2	Initialize local-bus hard-disk controller
92	3-2-1-3	Jump to UserPatch 1
93	3-2-1-4	Build MPTABLE for multi-processor boards
94	3-2-2-1	Disable A20 address line
95	3-2-2-2	Initialize CD-ROM
96	3-2-2-3	Clear huge ES segment register
98	3-2-3-1	Search for option ROMs
9A	3-2-3-3	Shadow option ROMs
9C	3-2-4-1	Set up Power Management
9E	3-2-4-3	Enable Hardware interrupts
A0	3-3-1-1	Set time of day
A2	3-3-1-3	Check key lock
A4	3-3-2-1	Initialize typematic rate
A8	3-3-3-1	Erase F2 prompt
AA	3-3-3-3	Scan for F2 key stroke
AC	3-3-4-1	Enter SETUP
AE	3-3-4-3	Clear in-POST flag
B0	3-4-1-1	Check for errors
B2	3-4-1-3	POST done-prepare to boot operating system
B4	3-4-2-1	One beep
B6	3-4-2-3	Check password(optional)
B8	3-4-3-1	Clear global descriptor table
BC	3-4-4-1	Clear parity checkers
BE	3-4-4-3	Clear screen(optional)
BF	3-4-4-4	Check virus and backup reminders
C0	4-1-1-1	Try to boot with INT 19

2 Block Diagram

2-1 System Block Diagram

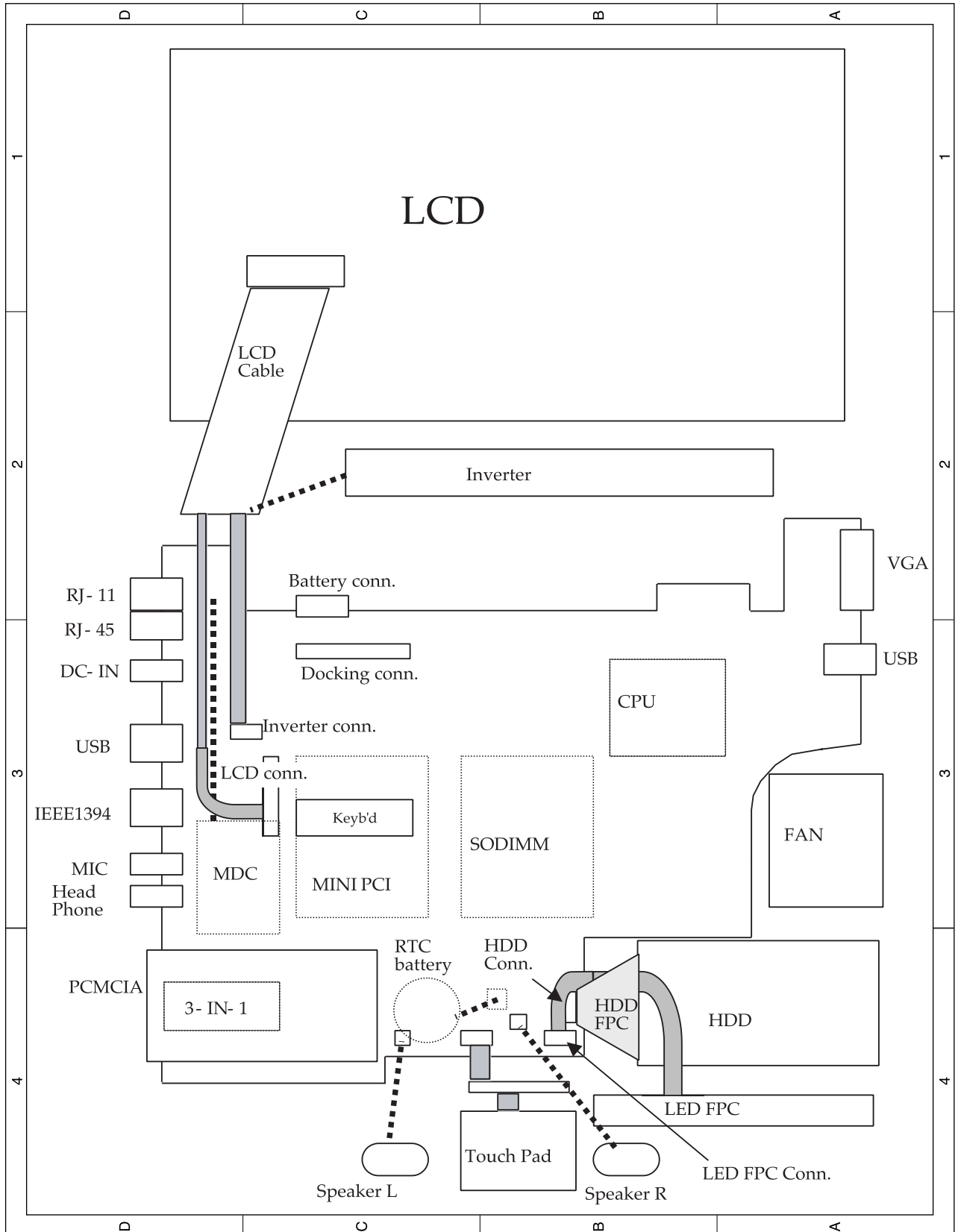


2-2 Docking Block Diagram

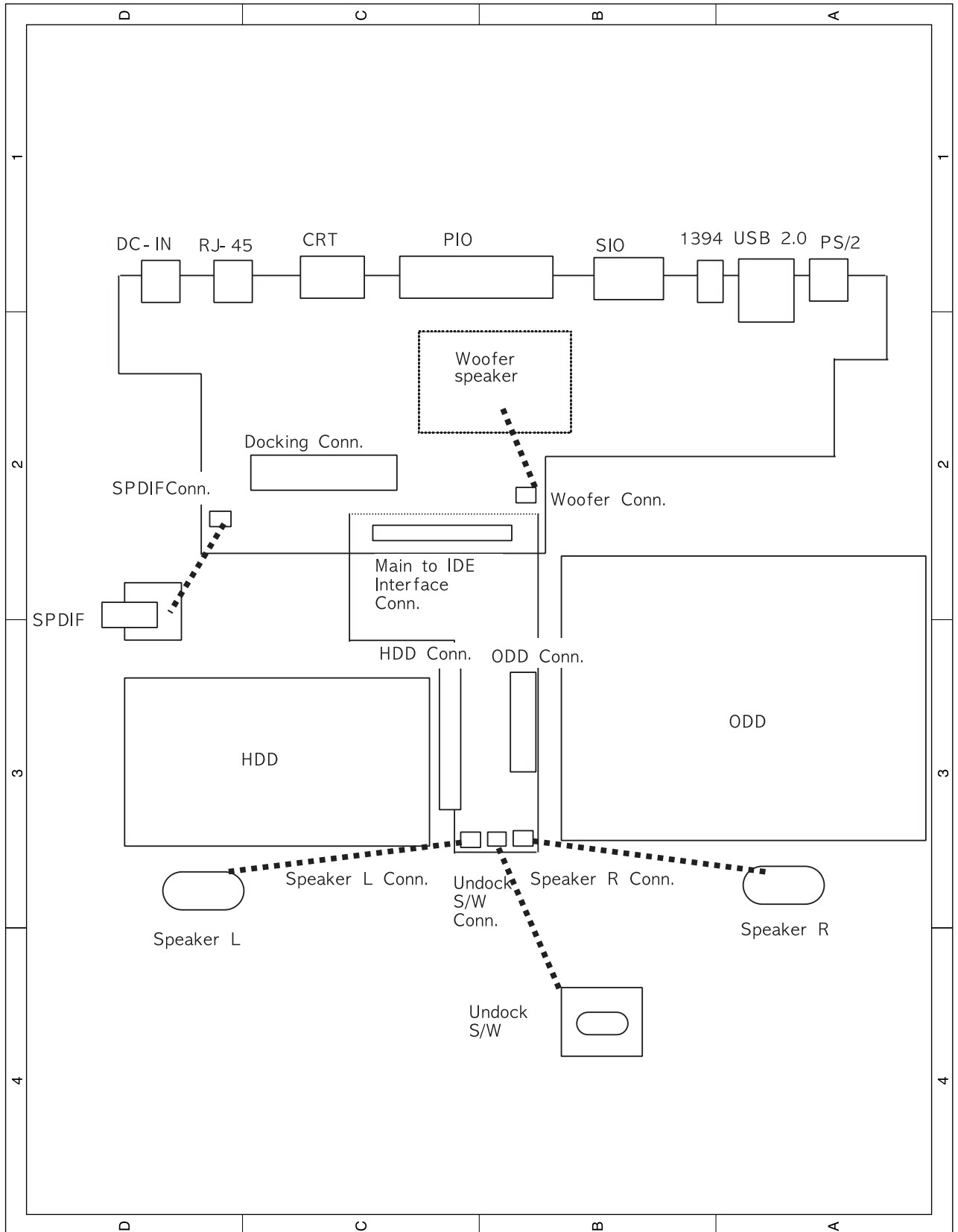


3 Wiring Diagram

3-1 System Wiring Diagram



3-2 Docking Wiring Diagram



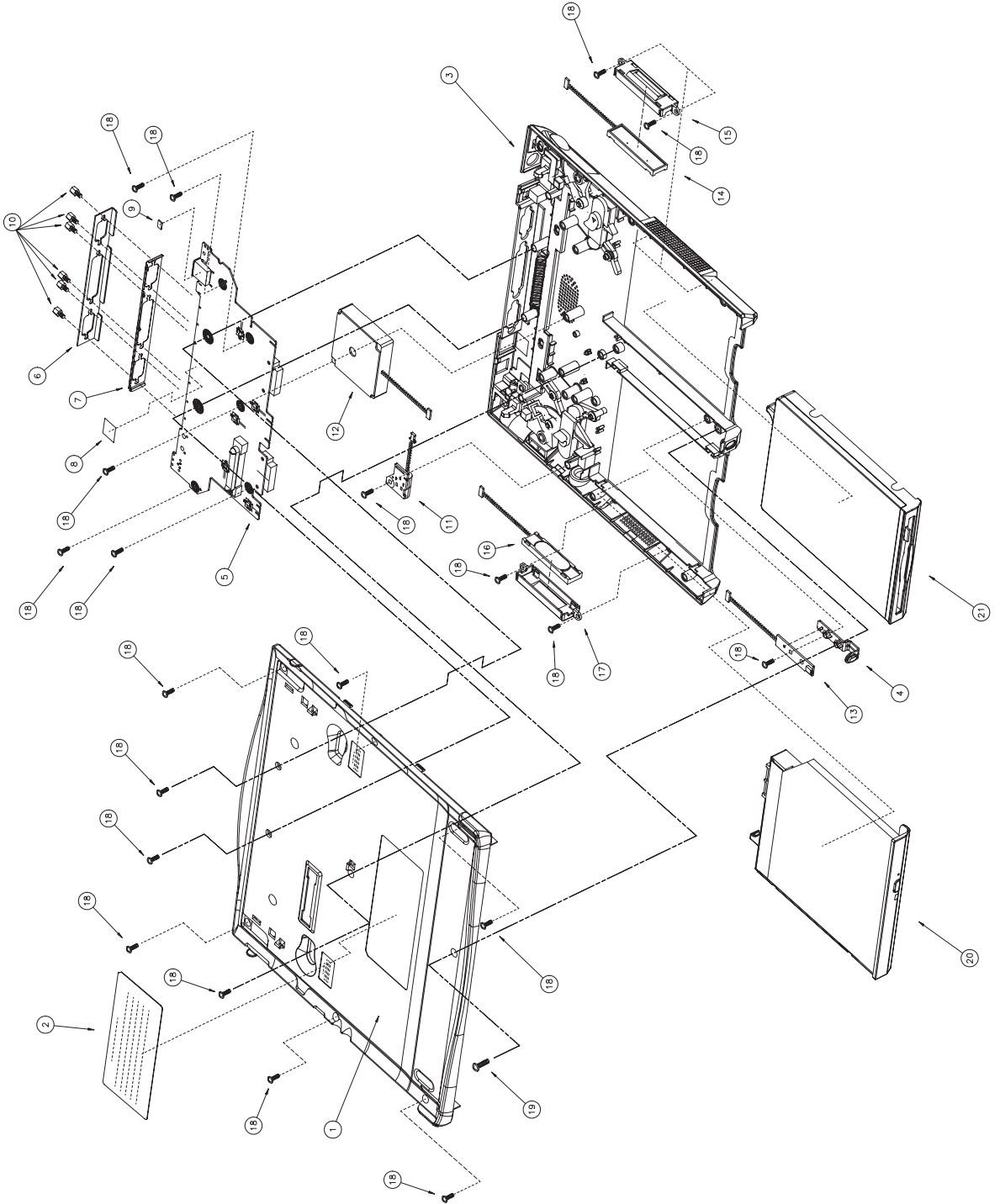
8 SENS Q10 Docking

8-1 Specifications

Item	Description	Remark
I/O Ports & Connector	1 IEEE1394, 1 Parallel, 1 Serial, 1 VGA, 1 PS/2, 1 DC-In,1 RJ-45, 2 USB, SPDIF	Support IDE Channel through IEEE1394
Dimensions	274 x 238 x 21mm	
System Weight	1.1kg Include CD-ROM and FDD	
2 Multi bay	Left : CD / DVD / CD-RW/DVD-Combo / 2nd HDD Right : 3.5" 12.7mm 1.44MB FDD	
Undock control	With Undock(eject) button	

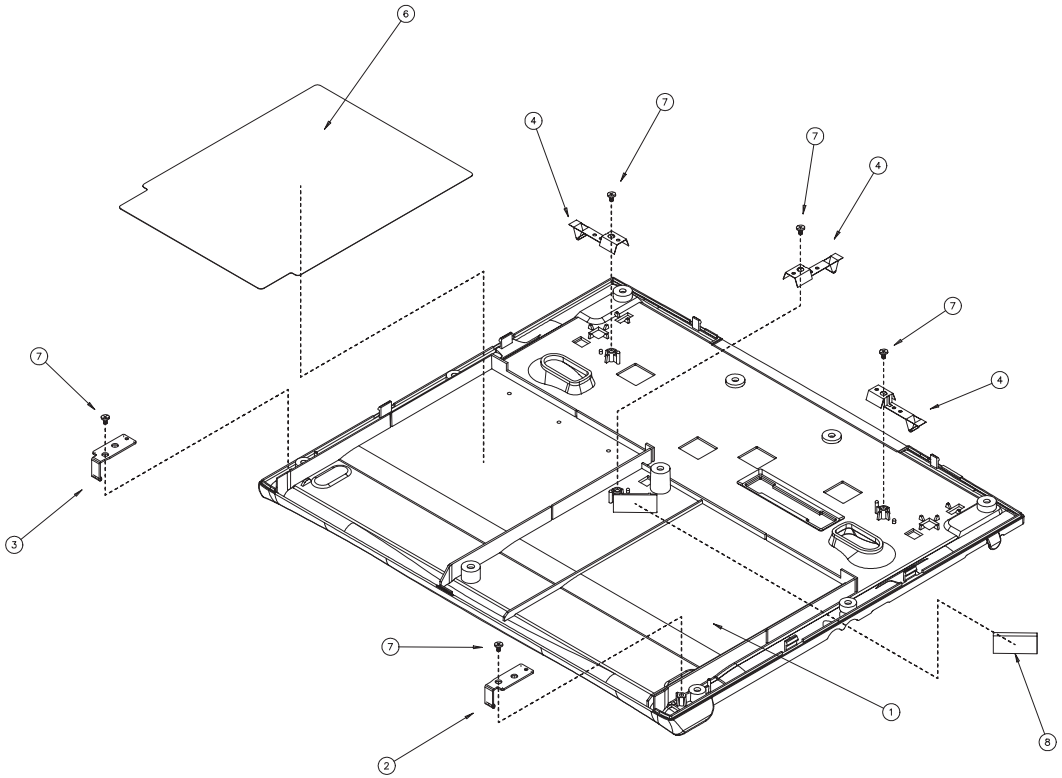
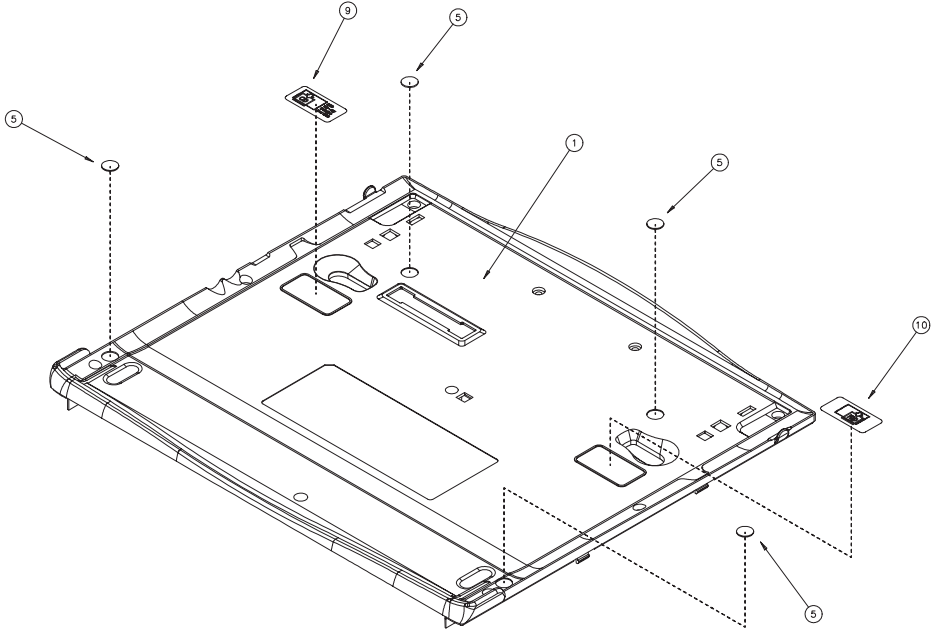
8-2 Docking Exploded View and Parts List

8-2-1 ASS'Y DOCKINGt



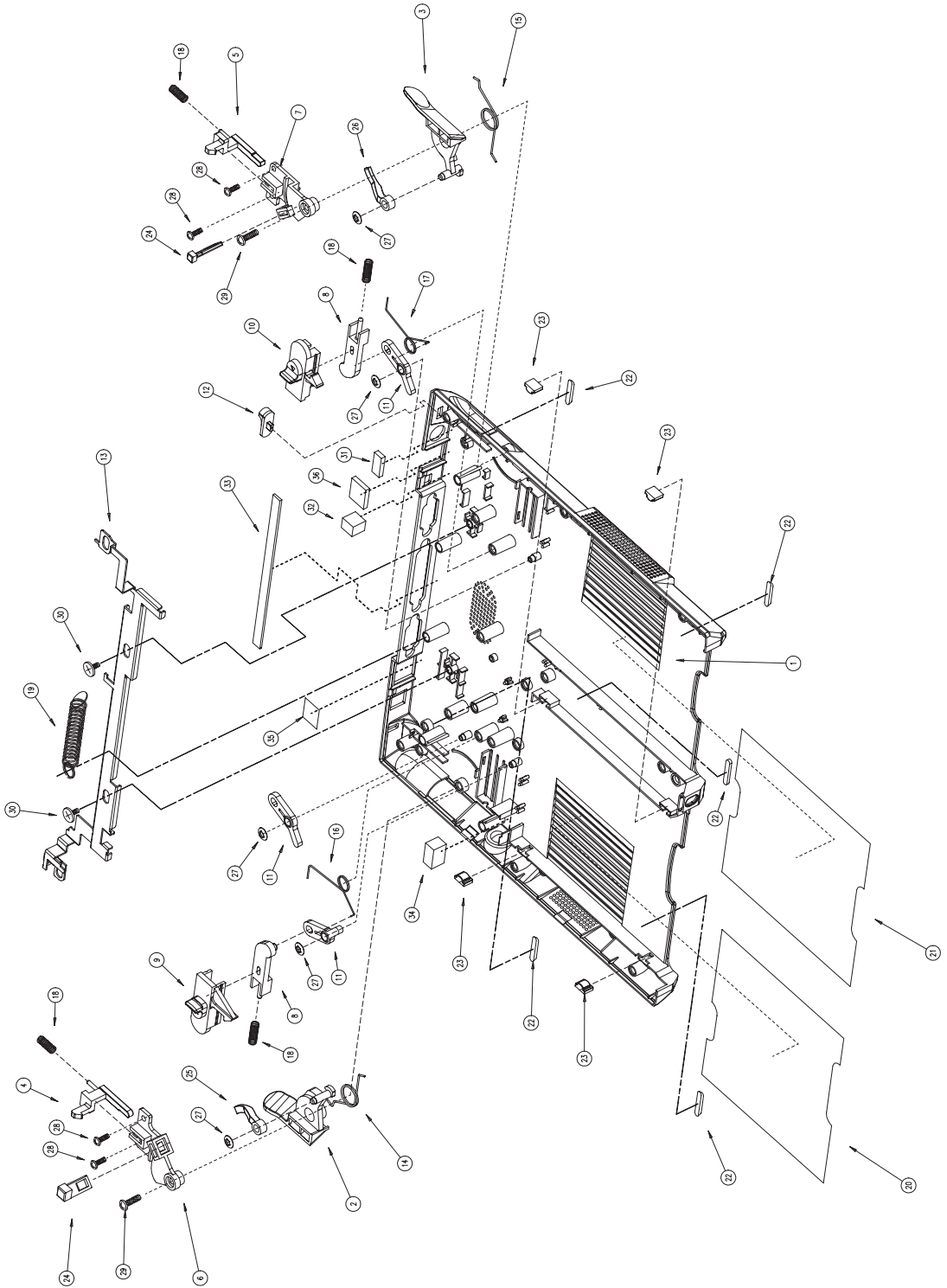
NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA75-00679A	UNIT-HOUSING TOP(DOCK)	ASS'Y	1	
2	BA68-01099A	LABEL CAUTION_DOCK(12W)	POLY, T0.3	1	
3	BA75-00680A	UNIT-HOUSING BOTTOM(DOCK)	ASS'Y	1	
4	BA64-10009A	KNOB-UNDOCK	PC/ABS	1	
5		DOCKING MAING B'D		1	
6	BA61-00177A	BRACKET-REAR, P10	SUS304 T0.8	1	
7	BA63-00167A	SHIELD DOCK P10	SUS304 T0.15	1	
8	BA62-00127A	INSULATOR SHIELD DOCK	PC T0.3	1	
9	BA63-00132A	GASKET REAR F2	ASS'Y	1	
10	BA61-30002A	SUPPORT(HEXA)	M3.0 x L10.0 WHT	6	
11		SPDIF BOARD		1	
12	BA96-00922A	WOOFER SPEAKER 12W		1	
13	BA59-00492A	UNODCK PCB		1	
14	BA39-00125A	ASS'Y-SPEAKER(MONO-RIGHT)		1	
15	BA72-00634A	HOLDER-SPEAKER(L/R)	PC/ABS	1	
16	BA39-00148A	ASS'Y-SPEAKER(MONO-LEFT)		1	
17	BA72-00634A	HOLDER-SPEAKER(L/R)	PC/ABS	1	
18	6001-001407	SCREW-MACHINE	M2.6 x L6.0, BH, YEL, +	20	
19	6001-001409	SCREW-MACHINE	M3.0 x L10.0 BH, NIPLT	1	
20	BA96-01137A	ASS'Y CDROM	ASS'Y	1	
21	BA96-00685A	ASS'Y FDD	ASS'Y	1	

8-2-2 UNIT-HOUSING TOP(DOCK)



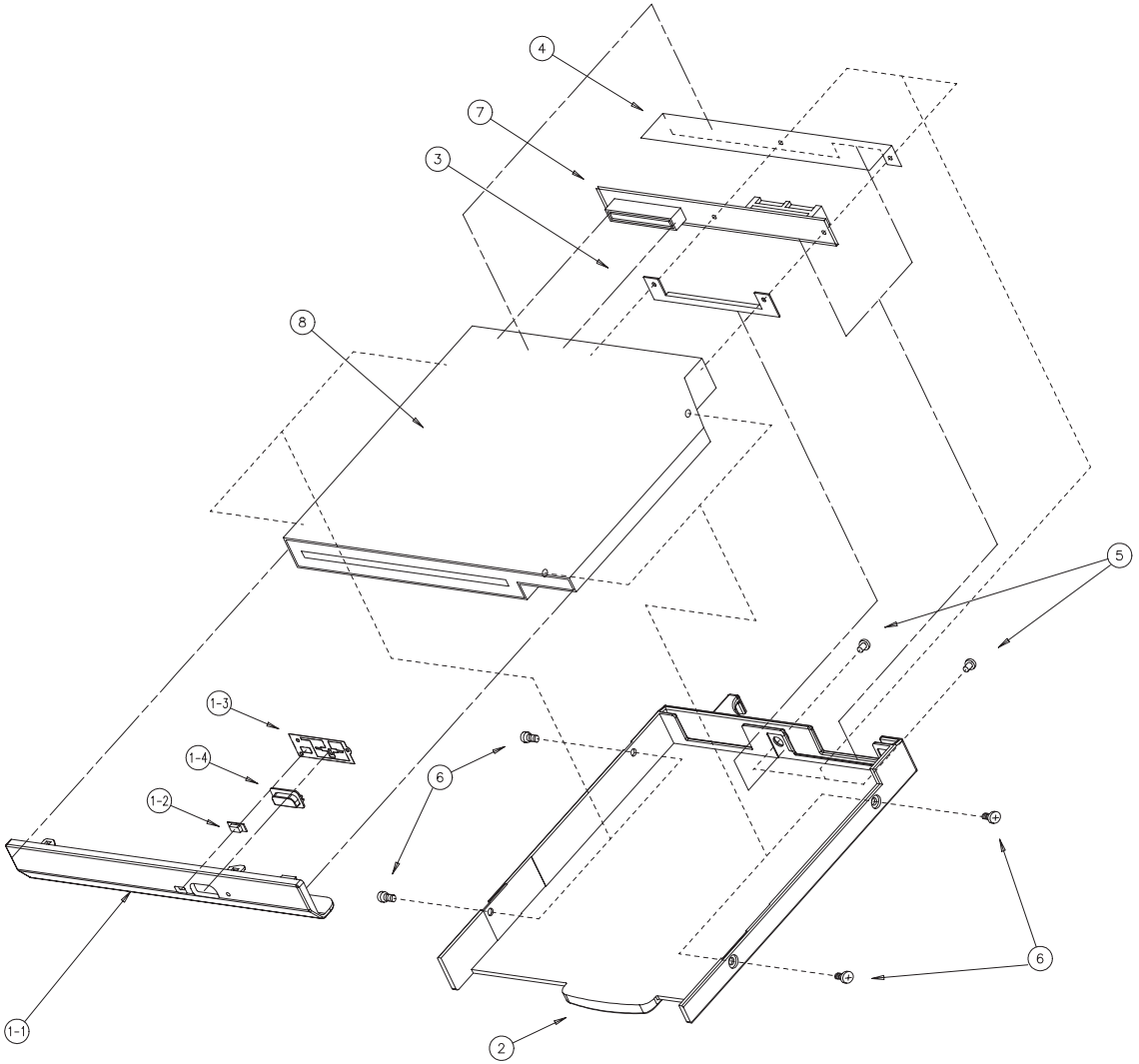
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1	BA72-01072A	HOUSING-TOP	PC/ABS, TALC	1	GEMINI SILVER
2	BA61-00281A	BRKT-FRONT, LEFT(12W)	SUS304 T0.8	1	Ni PLATING
3	BA61-00282A	BRKT-FRONT, RIGHT(12W)	SUS304 T0.8	1	Ni PLATING
4	BA70-00552A	SPRING-PLATE	SUS304 T0.2	3	
5	BA63-00155A	COVER-SCREW	PC T0.5	4	GEMINI SILVER
6	BA72-00770A	INSULATOR-FDD, TOP	PET T0.075, BLK	1	
7	6002-001154	SCREW-TAPPING	M2.6, L4.0, PH, YEL, +	5	
8	BA73-00153A	RUBBER-SPONGE	SRS40P T3.0	1	
9	BA68-10182A	LABEL-KNOB, L	POLY T0.3	1	
10	BA68-10185A	LABEL-KNOB, R	POLY T0.3	1	

8-2-3 UNIT-HOUSING BOTTOM(DOCK)



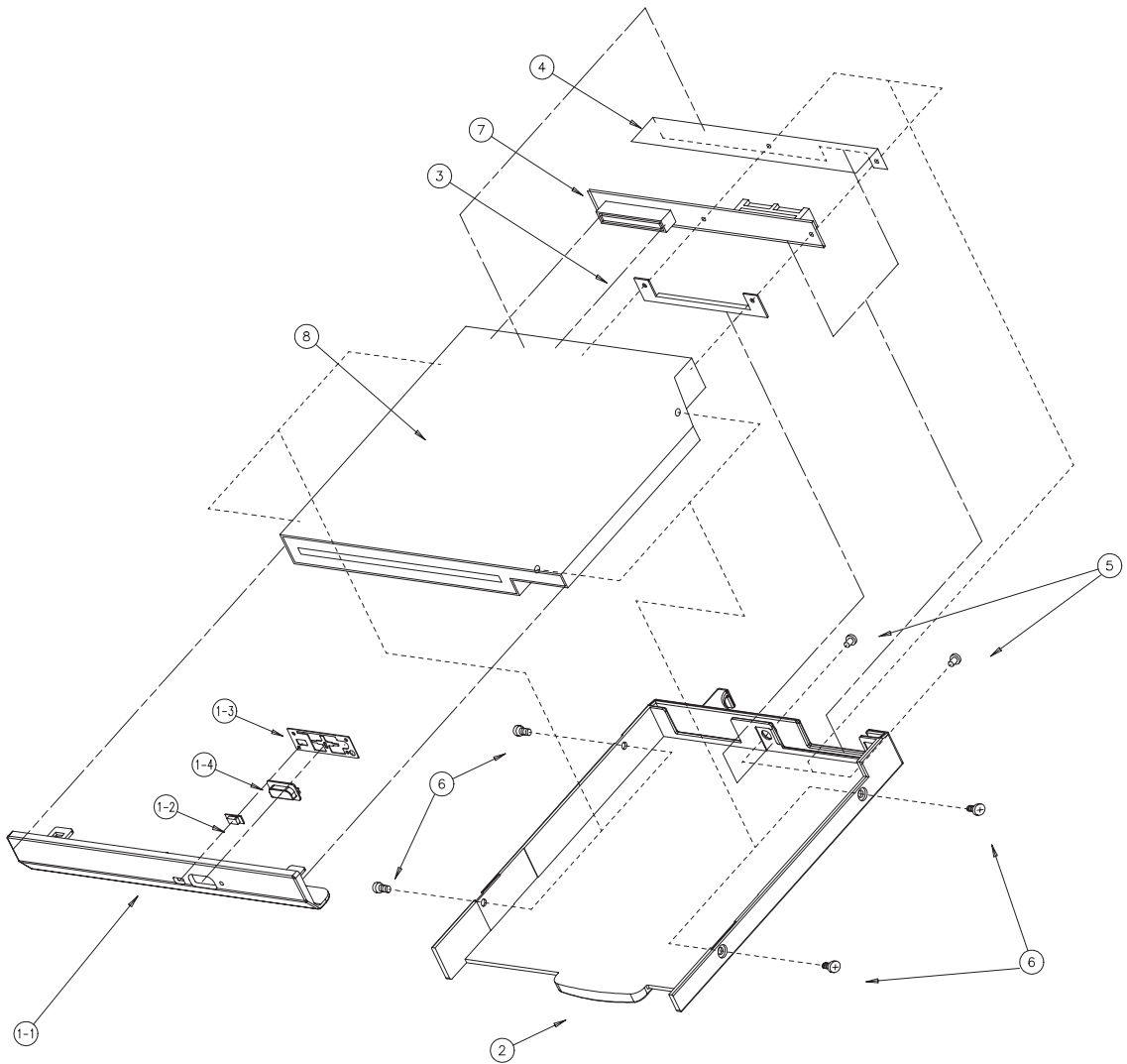
NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA72-01071A	HOUSING-BOTTOM	PC/ABS, TALC	1	GEMINI SILVER
2	BA72-00632C	LEVER-EJECT, LEFT	PC/ABS	1	GEMINI BLUE
3	BA72-00633C	LEVER-EJECT, RIGHT	PC/ABS	1	GEMINI BLUE
4	BA72-00678A	HOLDER-HOOK, L(8W)	PC/ABS	1	
5	BA72-00679A	HOLDER-HOOK, R(8W)	PC/ABS	1	
6	BA72-00662A	LEVER-SUPPORTER, L	POM	1	
7	BA72-00663A	LEVER-SUPPORTER, R	POM	1	
8	BA72-00635A	LINK-PUSHER	POM	2	
9	BA64-00127C	KNOB-LOCK DEVICE, L	PC/ABS	1	GEMINI SILVER
10	BA64-00128C	KNOB-LOCK DEVICE, R	PC/ABS	1	GEMINI SILVER
11	BA72-00639A	LINK DEVICE	PC/ABS	3	
12	BA64-00196A	KNOB-LINK-KEN	PC/ABS	1	
13	BA61-00169A	BRKT-LINK-KEN	SUS304 T0.8	1	
14	BA61-00087A	SPRING-LEVER, L	SWP T0.7	1	
15	BA61-00088A	SPRING-LEVER, R	SWP T0.7	1	
16	BA61-70004A	SPRING-EJECT DVC, L	SWP T0.8	1	
17	BA61-70006A	SPRING-EJECT DVC, R	SWP T0.8	1	
18	BA61-00092A	SPRING-EJECT, KNOB	SWP T0.3	4	
19	BA61-00212A	SPRING-LINK-KEN	SWP T0.3	1	
20	BA72-00658A	INSULATOR-CD	PET T0.15, BLACK	1	
21	BA72-00659A	INSULATOR-FDD	PET T0.15, BLACK	1	
22	BA73-00165A	RUBBER-FOOT, SYS	URETHAN	5	GEMINI SILVER
23	BA73-00169A	RUBBER-CD, SIDE	SILICON	4	GEMINI SILVER
24	BA72-00666A	LEVER-PUSHER(8W)	PC/ABS	2	
25	BA72-00664A	SLIDER-L	POM	1	
26	BA72-00665A	SLIDER-R	POM	1	
27	BA70-00354A	PLATE-WASHER	SUS304 T0.2	5	
28	6001-001407	SCREW-MACHINE	M2.6 x L6.0, BH, YEL, +	4	
29	6001-001409	SCREW-MACHINE	M3.0 x L10.0, BH, NIPLT, +	2	
30	BA60-00031A	SCREW-MACHINE	M2.0 x L5.0, CH, YEL, +	2	
31	BA63-00070A	GASKET-PS2, UNDER	12 x 8 x 0.5 t	1	
32	BA63-00067A	GASKET-KBD3	7 x 9 x 9.0 t	1	
33	BA63-00125A	GASKET-REAR, PIO	120 x 5 x 1.0 t	1	
34	BA63-00129A	GASKET-SPDIF, DOCK	8 x 12 x 5.0 t	1	
35	BA63-20041A	GASKET-LAN	18 x 15 x 0.1 t	1	
36	BA63-00046A	GASKET-15-15-2.5	15 x 15 x 2.5 t	1	

8-2-4 ASS'Y CDROM



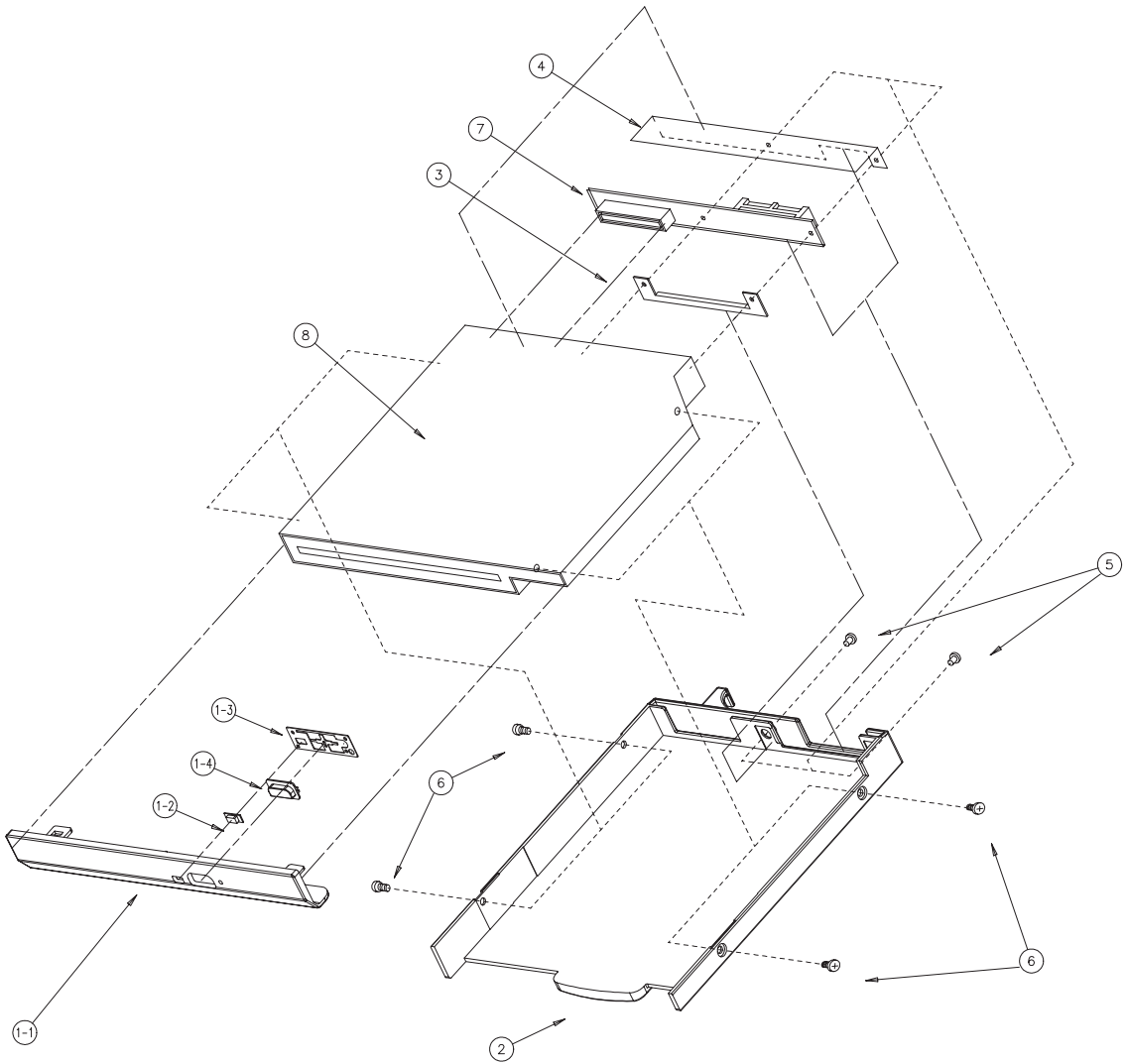
NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA75-00424C	UNIT-BEZEL, CD(DOCK)	PC+ABS	1	
1-1	BA72-00725C	BEZEL-CD, S(124Q)	PC+ABS	1	
1-2	BA67-00050A	LENS-CD	PMMA, SMOG	1	
1-3	BA70-00369A	PLATE-CD, S(124Q)	SUS304 T0.15	1	
1-4	BA69-00129A	KNOB-CD	PC+ABS	1	
2	BA72-00667C	CASE-BOTTOM-CD	PC+ABS	1	
3	BA70-00244A	BRKT DVICE	SECC	1	
4	BA72-00660A	INSULATOR-CD, TOP	PC T0.22	1	
5	6001-001433	SCREW-MACHINE	M2.0 x L3.0 CH WHT +	2	NYLOCK
6	6001-001446	SCREW-MACHINE	M2.0 x L2.5 YEL +	4	NYLOCK
7		CD BOARD I/F		1	
8		CDROM-DRIVE		1	

8-2-5 ASS'Y CDRW



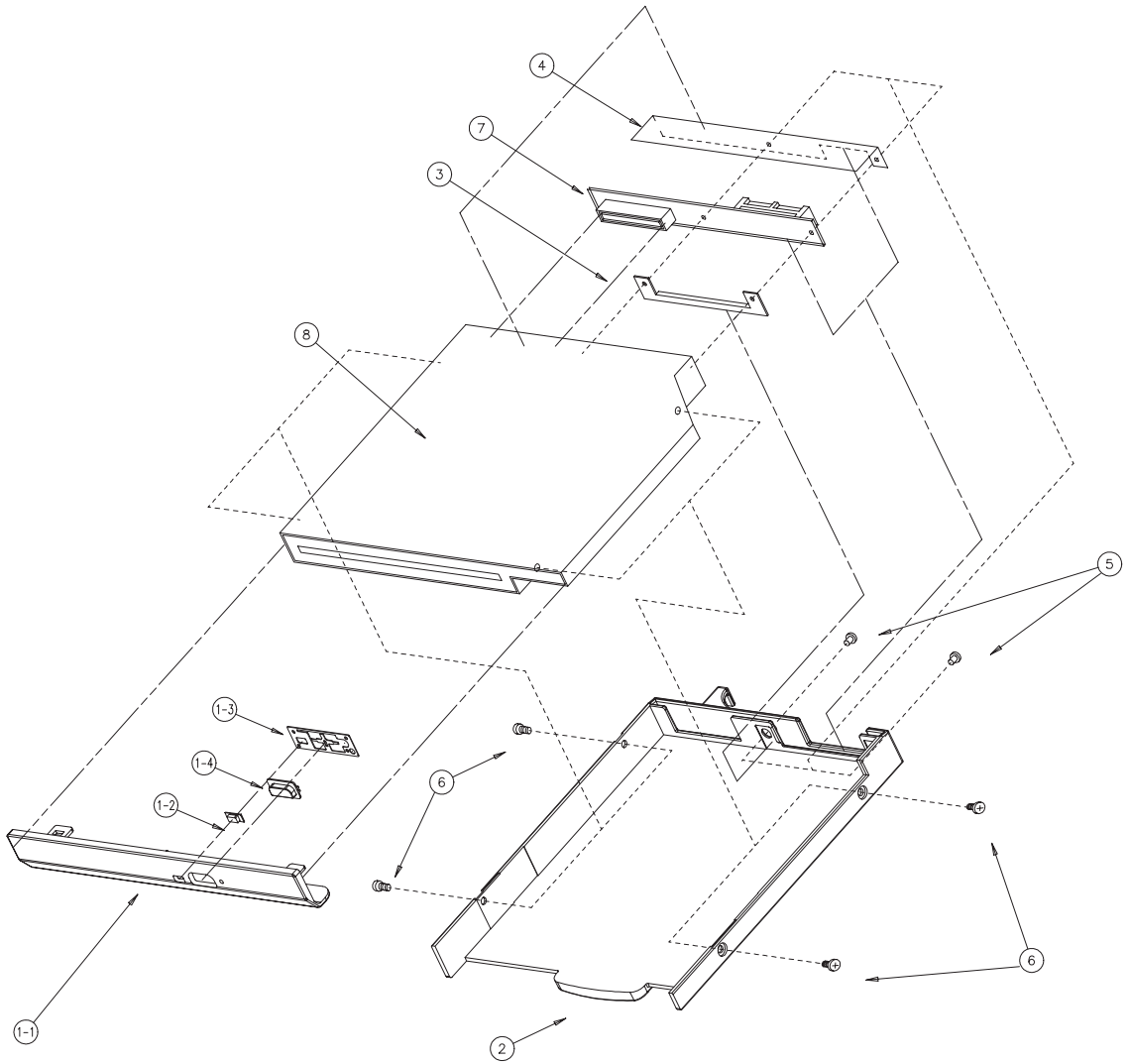
NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA7510040A	UNIT-BEZEL, CDRW_8X(DOCK)	PC+ABS	1	
1-1	BA64-00223A	BEZEL-CDRW_8X	PC+ABS	1	
1-2	BA67-00050A	LENS-CD	PMMA, SMOG	1	
1-3	BA70-00353A	PLATE-CD	SUS304 T0.15	1	
1-4	BA64-00130A	KNOB-DVD	PC+ABS	1	
2	BA72-00667C	CASE-BOTTOM-CD	PC+ABS	1	
3	BA70-00244A	BRKT DIVICE	SECC	1	
4	BA72-00660A	INSULATOR-CD, TOP	PC T0.22	1	
5	6001-001433	SCREW-MACHINE	M2.0 x L3.0 CH WHT +	2	NYLOCK
6	6001-001146	SCREW-MACHINE	M2.0 x L2.5 YEL +	4	NYLOCK
7		CD BOARD I/F		1	
8		DVDROM-DRIVE		1	

8-2-6 ASS'Y DVD



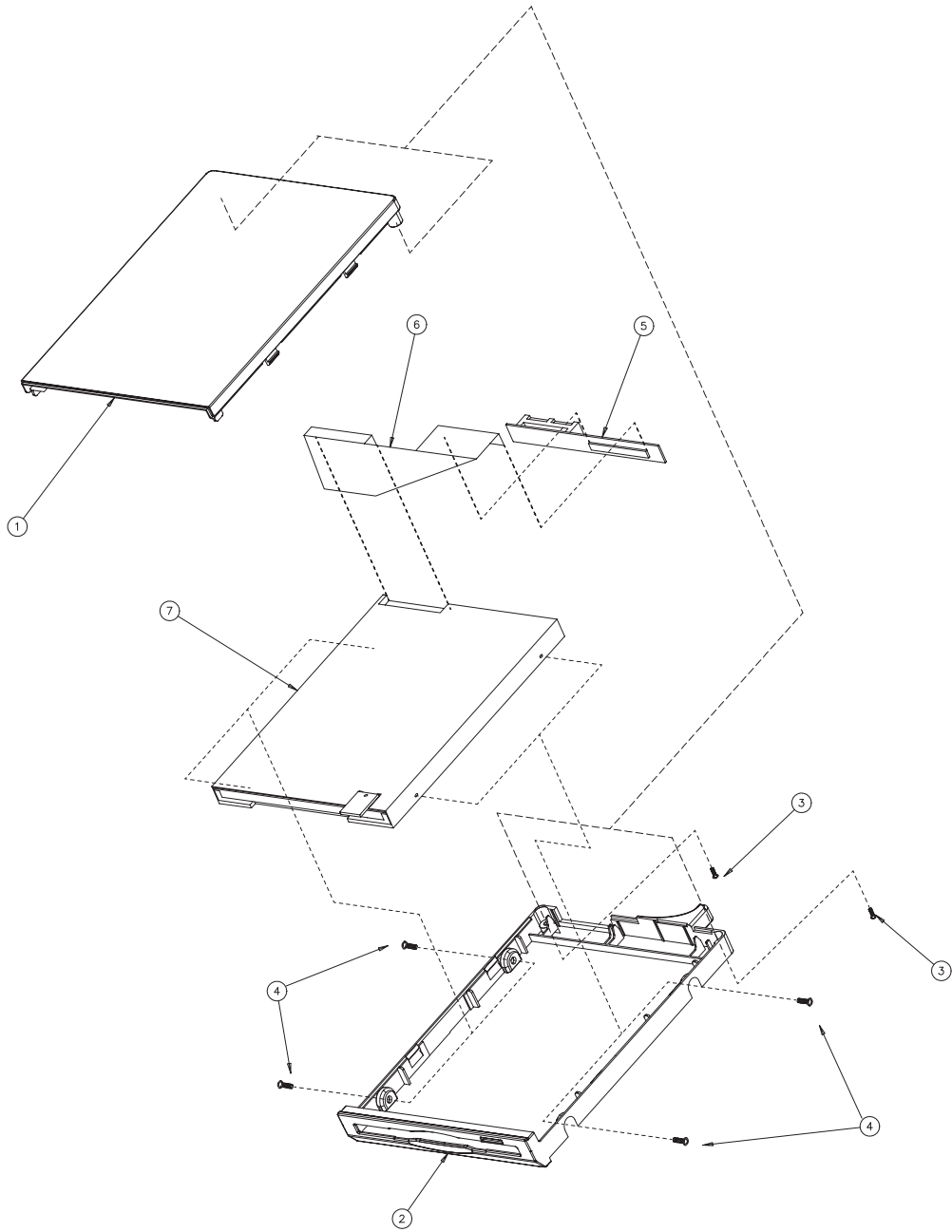
NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA75-00425C	UNIT-BEZEL, DVD(DOCK)	PC+ABS	1	
1-1	BA72-00675C	BEZEL-DVD	PC+ABS	1	
1-2	BA67-00050A	LENS-CD	PMMA, SMOG	1	
1-3	BA70-00353A	PLATE-CD	SUS304 T0.15	1	
1-4	BA64-00130A	KNOB-DVD	PC+ABS	1	
2	BA72-00667C	CASE-BOTTOM-CD	PC+ABS	1	
3	BA70-00244A	BRKT DIVICE	SECC	1	
4	BA72-00660A	INSULATOR-CD, TOP	PC T0.22	1	
5	6001-001433	SCREW-MACHINE	M2.0 x L3.0 CH WHT +	2	NYLOCK
6	6001-001146	SCREW-MACHINE	M2.0 x L2.5 YEL +	4	NYLOCK
7		CD BOARD I/F		1	
8		DVDROM-DRIVE		1	

8-2-7 ASS'Y COMBO



NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA75-10019C	UNIT-BEZEL, COMBO(DOCK)	PC+ABS	1	
1-1	BA64-00220A	BEZEL-COMBO	PC+ABS	1	
1-2	BA67-00050A	LENS-CD	PMMA, SMOG	1	
1-3	BA70-00353A	PLATE-CD	SUS304 T0.15	1	
1-4	BA64-00130A	KNOB-DVD	PC+ABS	1	
2	BA72-00667C	CASE-BOTTOM-CD	PC+ABS	1	
3	BA70-00244A	BRKT DEVICE	SECC	1	
4	BA72-00660A	INSULATOR-CD, TOP	PC T0.22	1	
5	6001-001433	SCREW-MACHINE	M2.0 x L3.0 CH WHT +	2	NYLOCK
6	6001-001146	SCREW-MACHINE	M2.0 x L2.5 YEL +	4	NYLOCK
7		CD BOARD I/F		1	
8		DVDROM-DRIVE		1	

8-2-8 ASS'Y FDD



NO	SEC CODE	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	BA72-00668C	CASE-TOP-FDD	PC+ABS	1	
2	BA72-00669C	CASE-BOTTOM-FDD	PC+ABS	1	
3	6001-001417	SCREW-MACHINE	M2.6 x L5.0 PH YEL +	2	NYLOCK
4	6001-001431	SCREW-MACHINE	M2.6 x L3.0 BH YEL +	4	NYLOCK
5		B/D FDD		1	
6		CABLE FDD		1	
7		FDD-DEVICE		1	

8-3 Docking Schematic Diagrams and PCB Silkscreen

8-3-1 Docking Main Board Schematic Diagrams

[CONTENTS]

Sheet 1.	COVER
Sheet 2.	DOCKING CONNECTOR
Sheet 3.	SIO & PIO & 2USB
Sheet 4.	1394 PHY 0
Sheet 5.	1394 to IDE0
Sheet 6.	2ND DEVICE PORT0 & PORT1
Sheet 7.	DOCK SPEAKER AMP & ETC
Sheet 8.	LAN & PS/2 & CRT & SPDIF
Sheet 9.	DC/DC
Sheet 10.	IDE(0) TEST & SPDIF BOARD

GEMINI Docking

CPU :
 Chip Set :

Model Name : GEMINI
 PBA Name : DOCKING BOARD
 Ass'y Code : BA96-01060A
 Dev. Step : MP
 Revision : 1.0.2
 T.R. Date : 2002.01.11

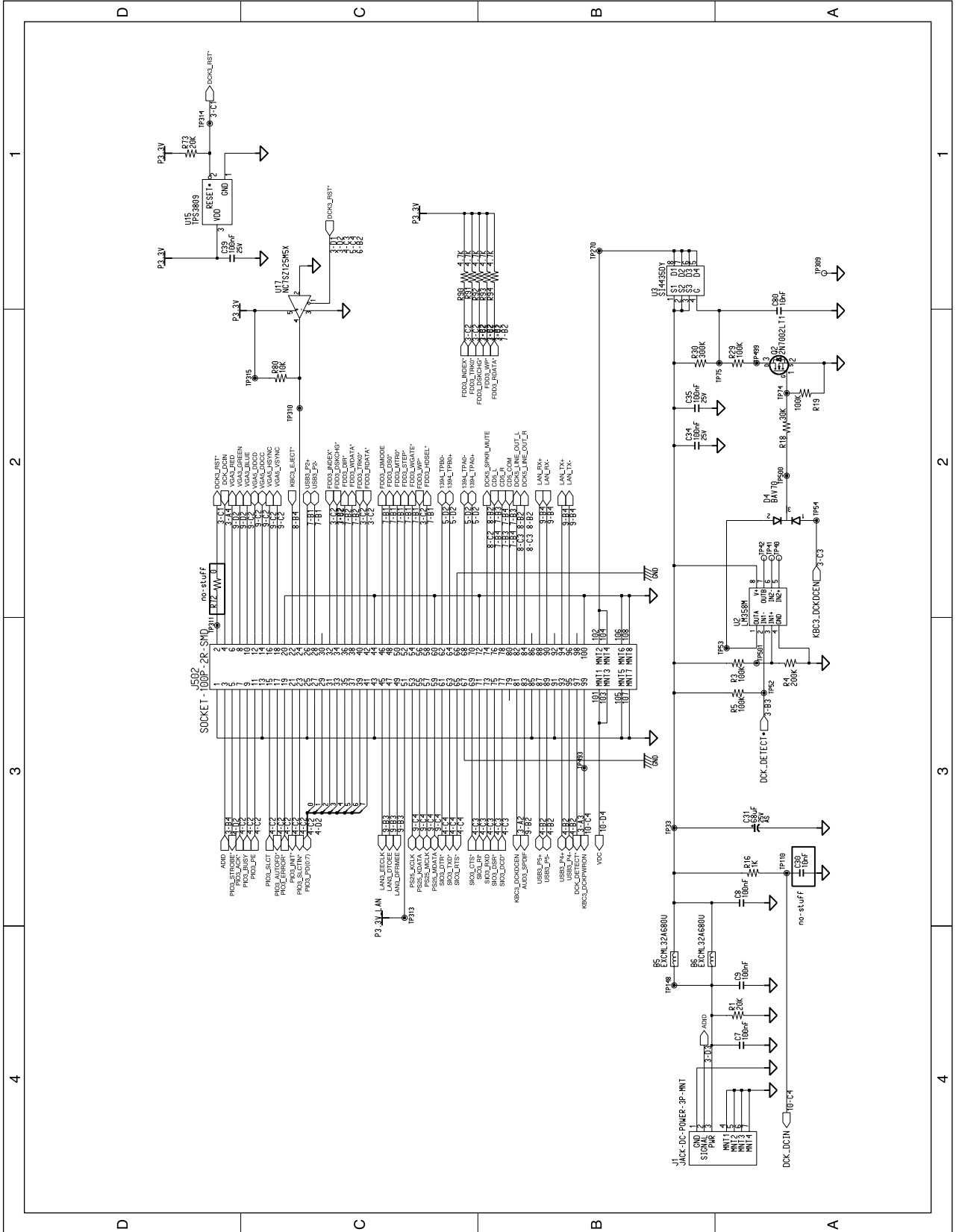
DRAW	CHECK	APPROVAL

Owner :

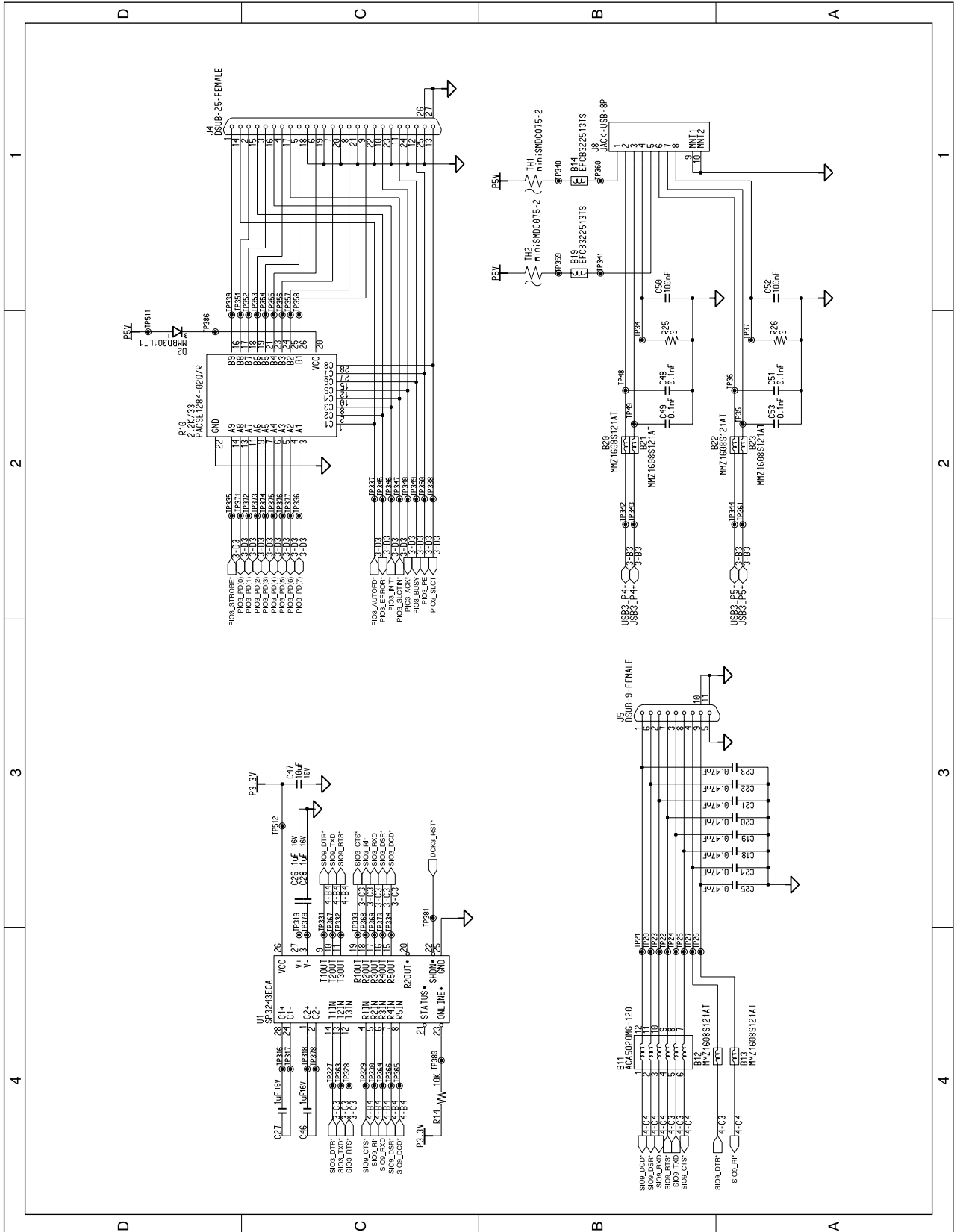
Signature :

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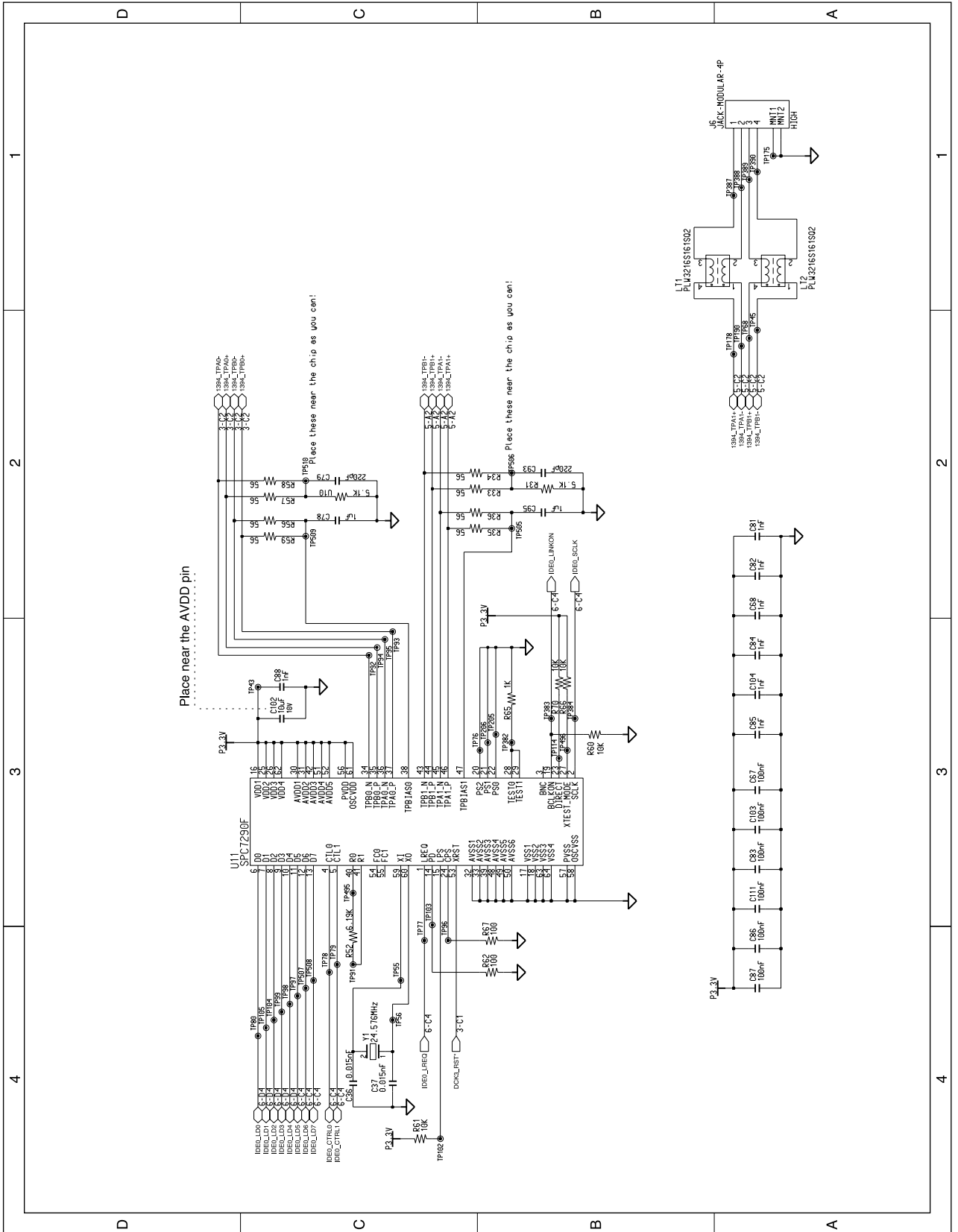
8-3-1(a) Docking Main Board Schematic Sheet 2 of 10(DOCKING CONNECTOR)



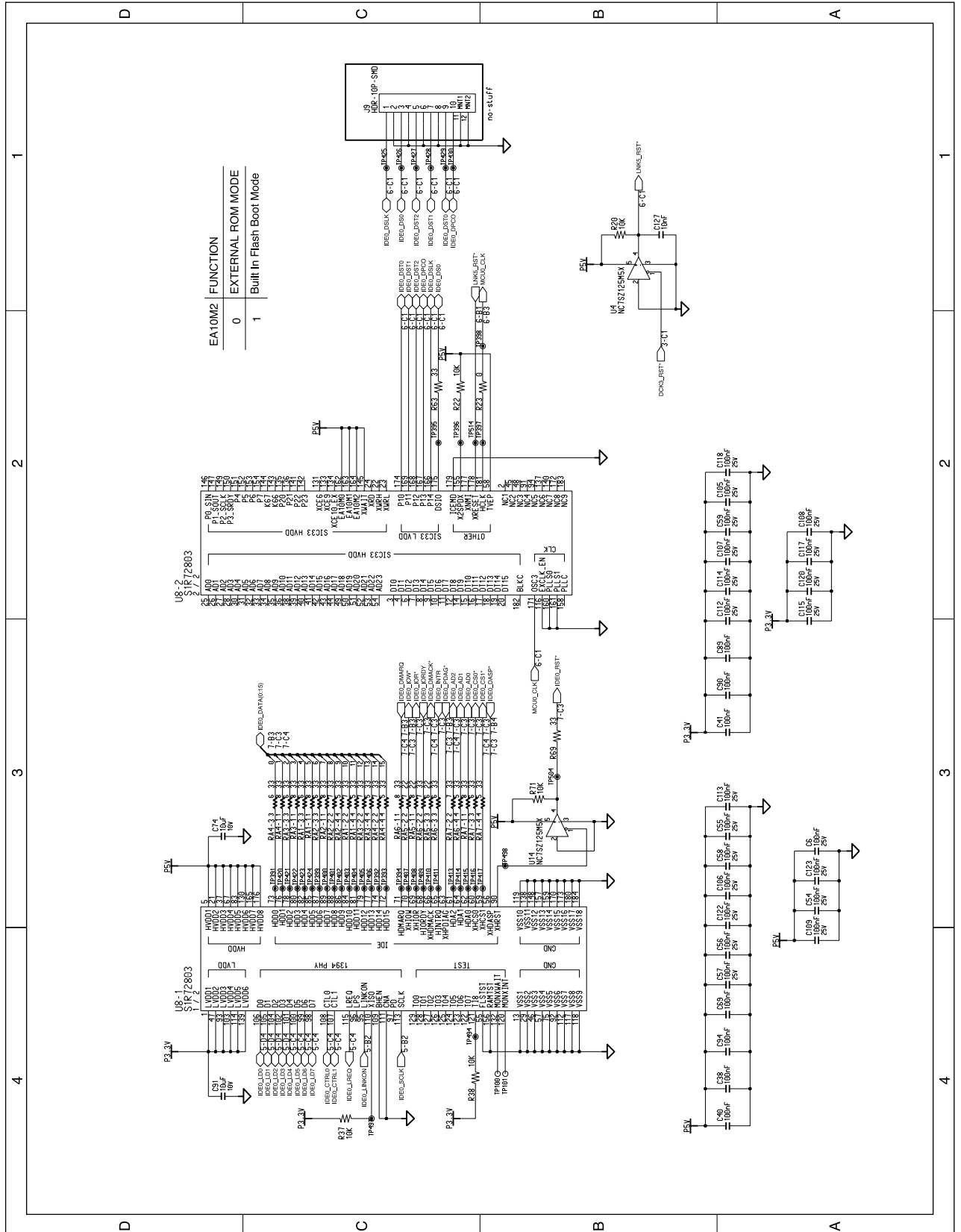
8-3-1(b) Docking Main Board Schematic Sheet 3 of 10(SIO & PIO & 2USB)



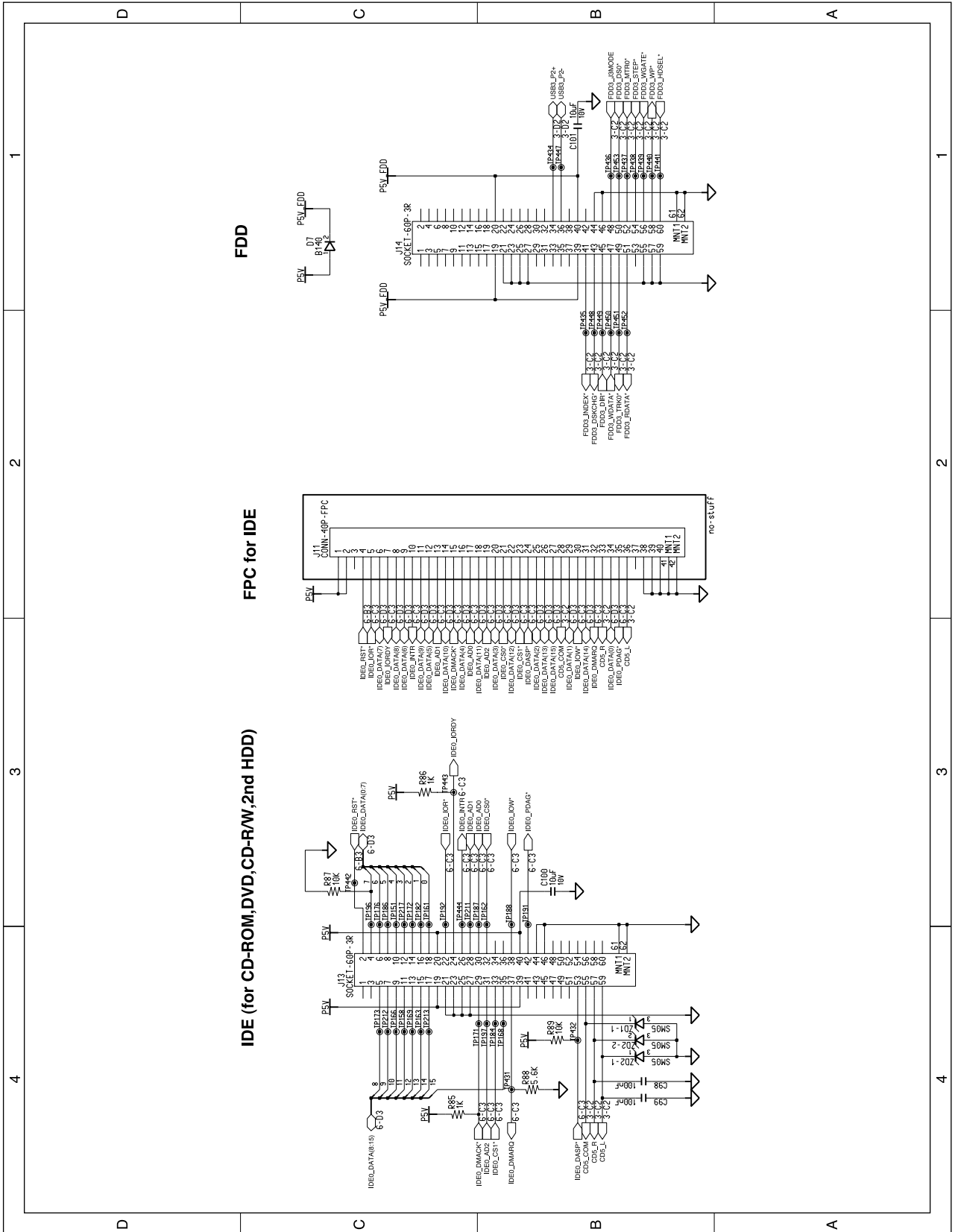
8-3-1(c) Docking Main Board Schematic Sheet 4 of 10(1394 PHY 0)



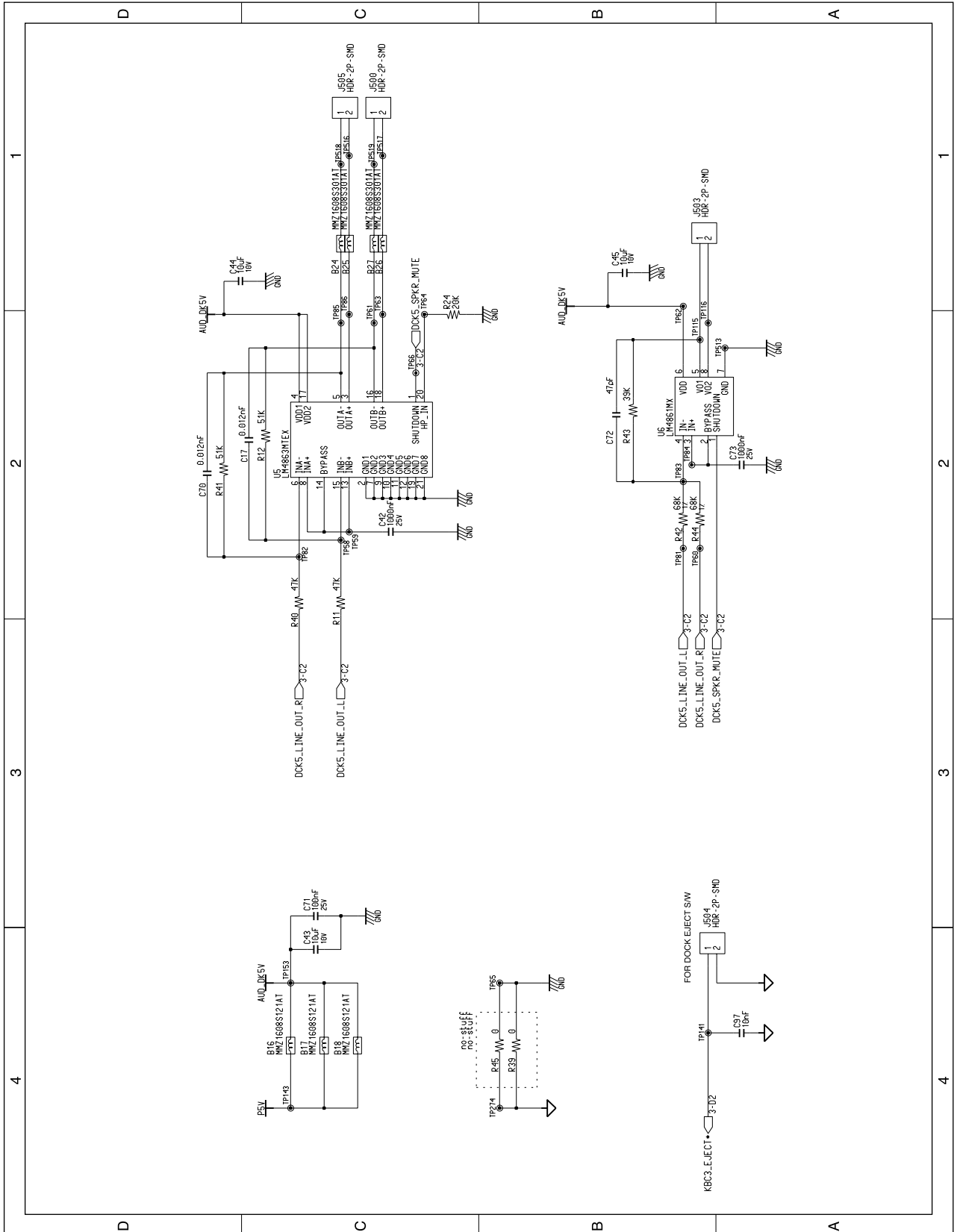
8-3-1(d) Docking Main Board Schematic Sheet 5 of 10(1394 to IDE0)



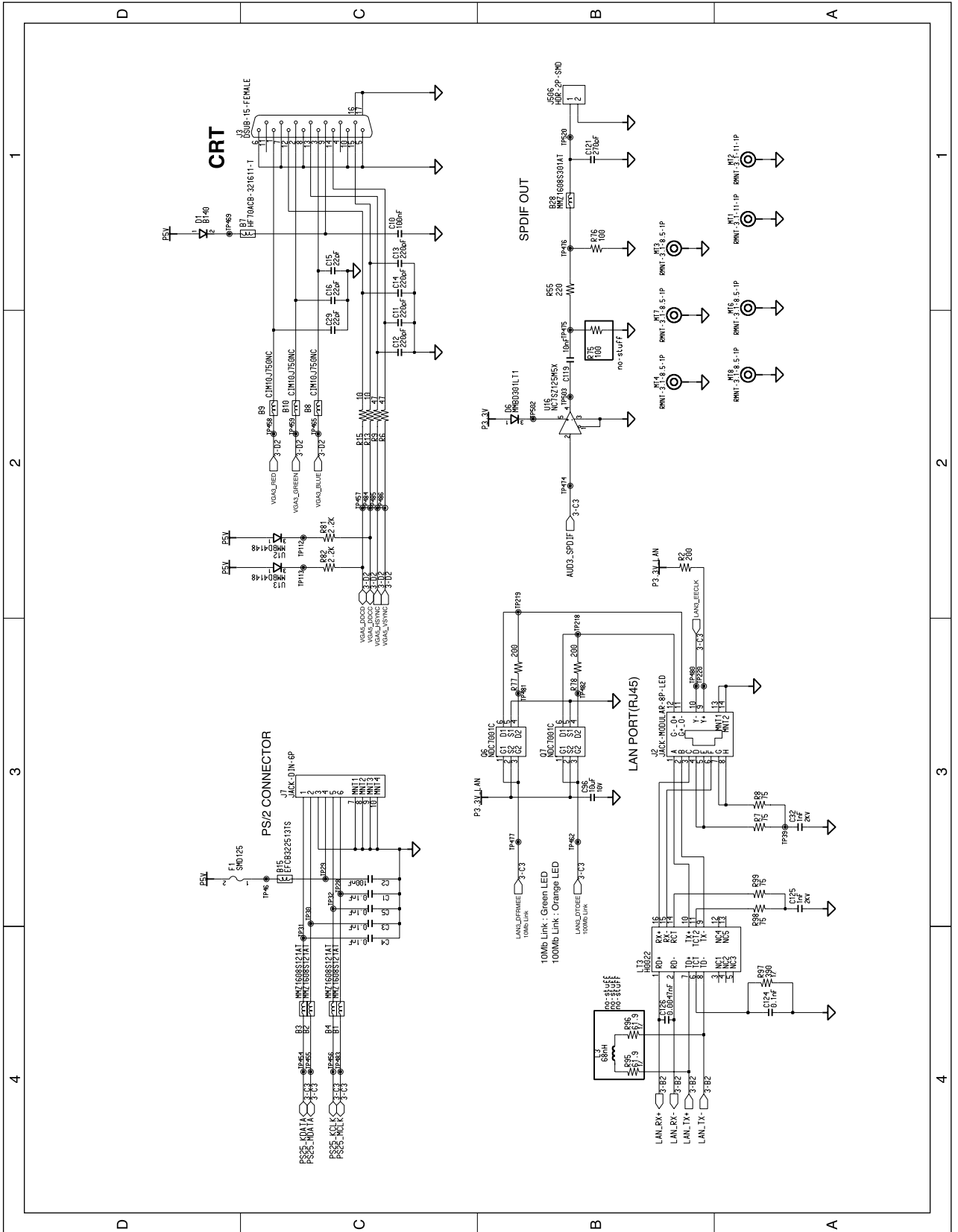
8-3-1(e) Docking Main Board Schematic Sheet 6 of 10(2ND DEVICE PORT0 & PORT1)



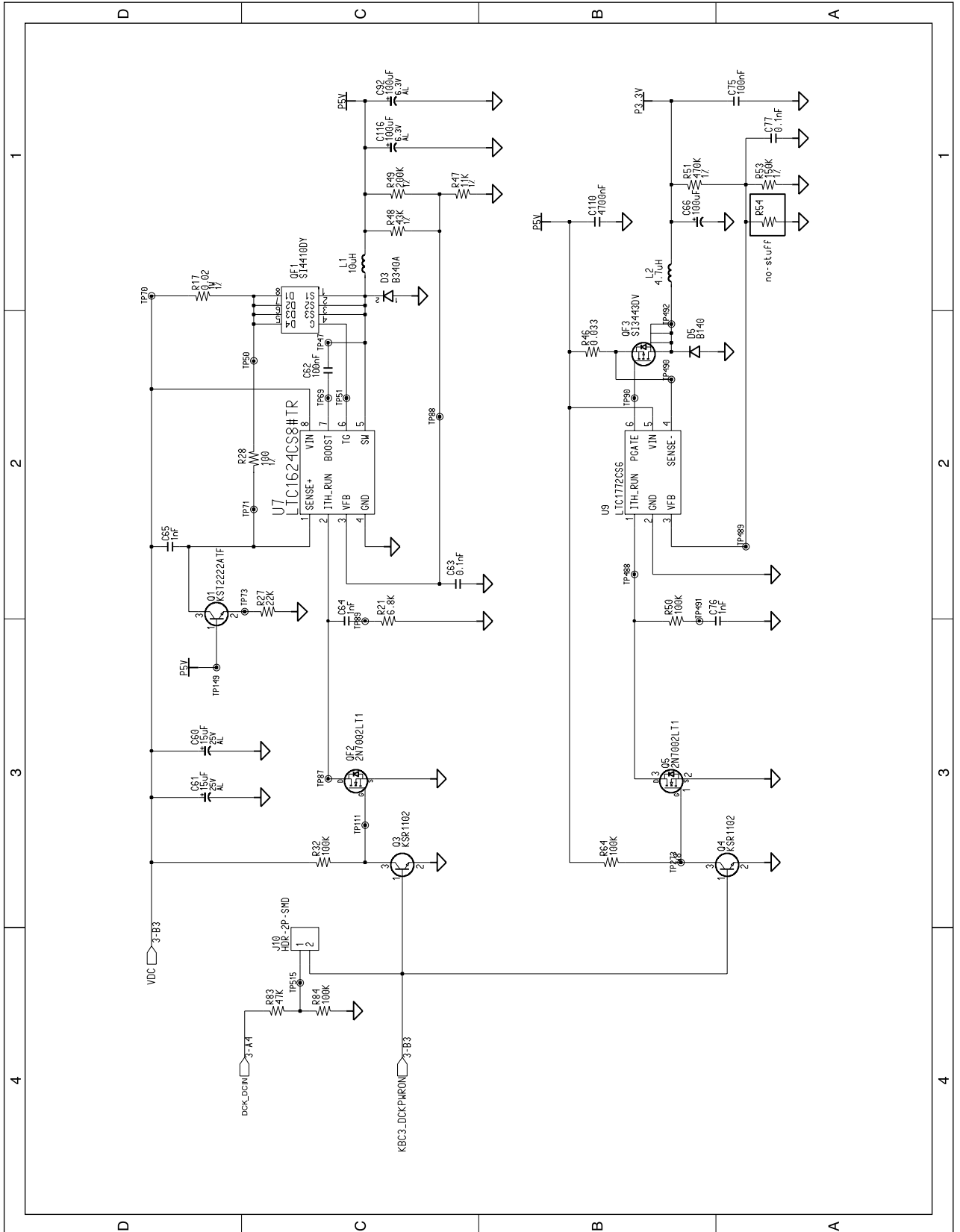
8-3-1(f) Docking Main Board Schematic Sheet 7 of 10(DOCK SPEAKER AMP & ETC)



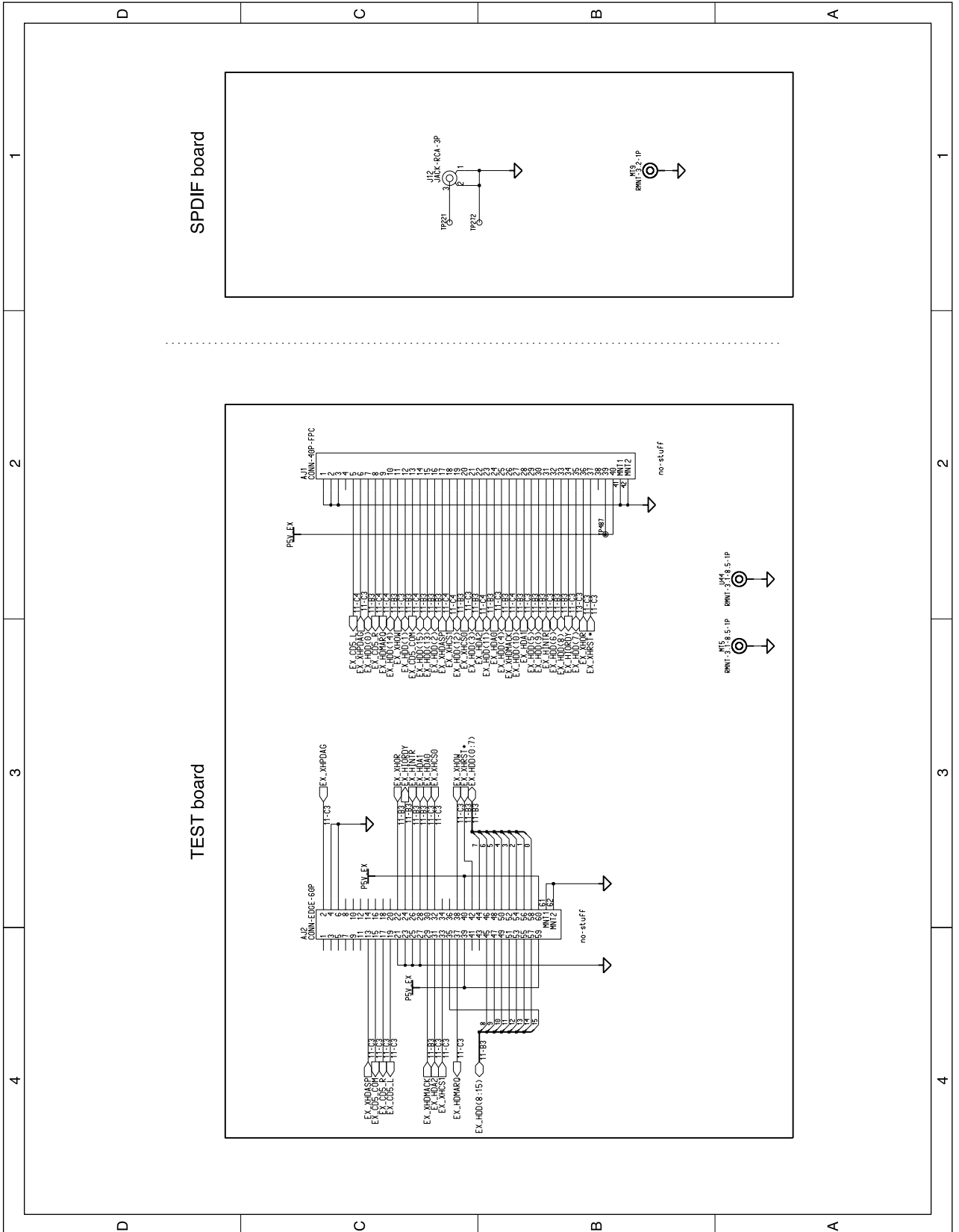
8-3-1(g) Docking Main Board Schematic Sheet 8 of 10(LAN & PS/2 & CRT & SPDIF)



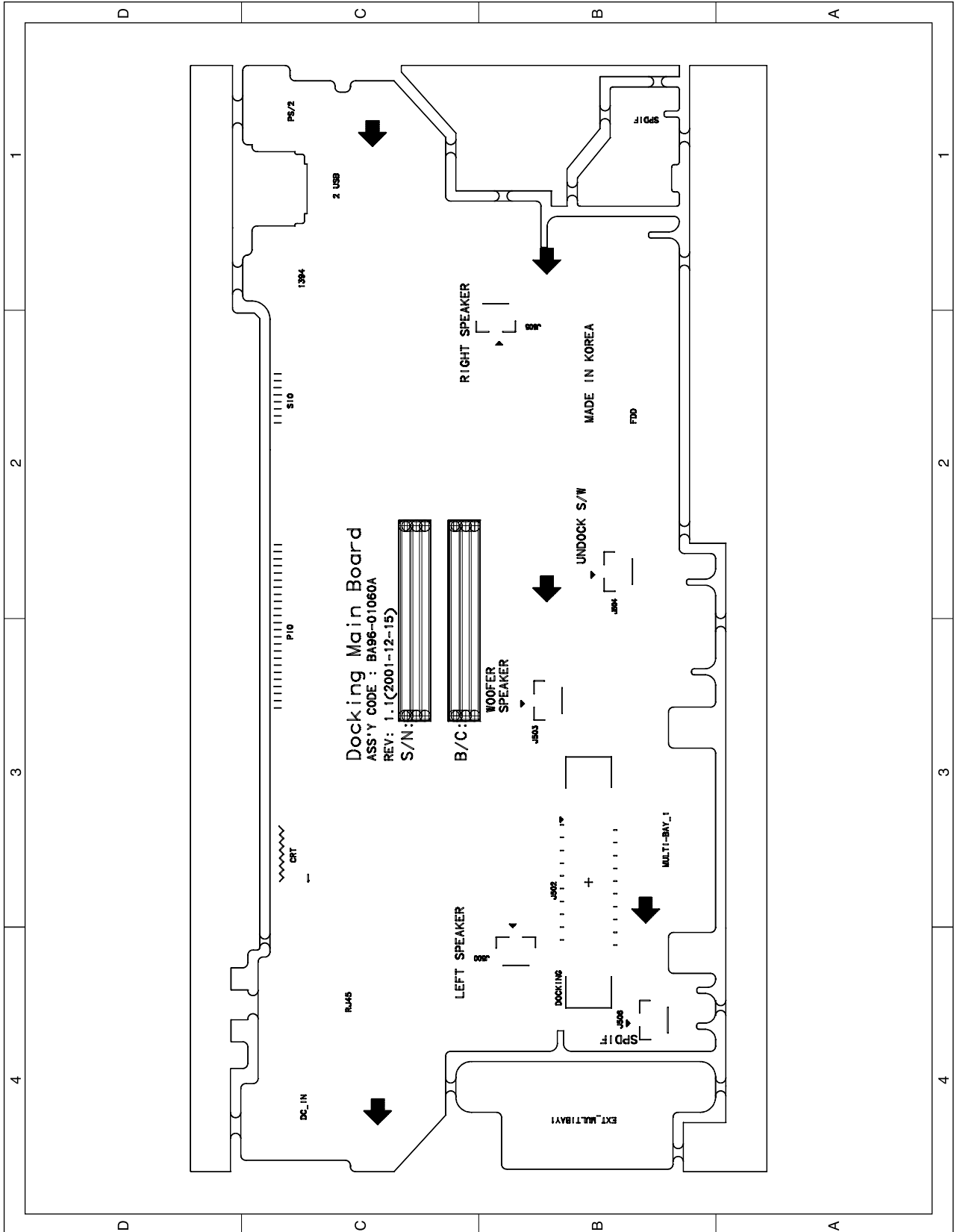
8-3-1(h) Docking Main Board Schematic Sheet 9 of 10(DC/DC)

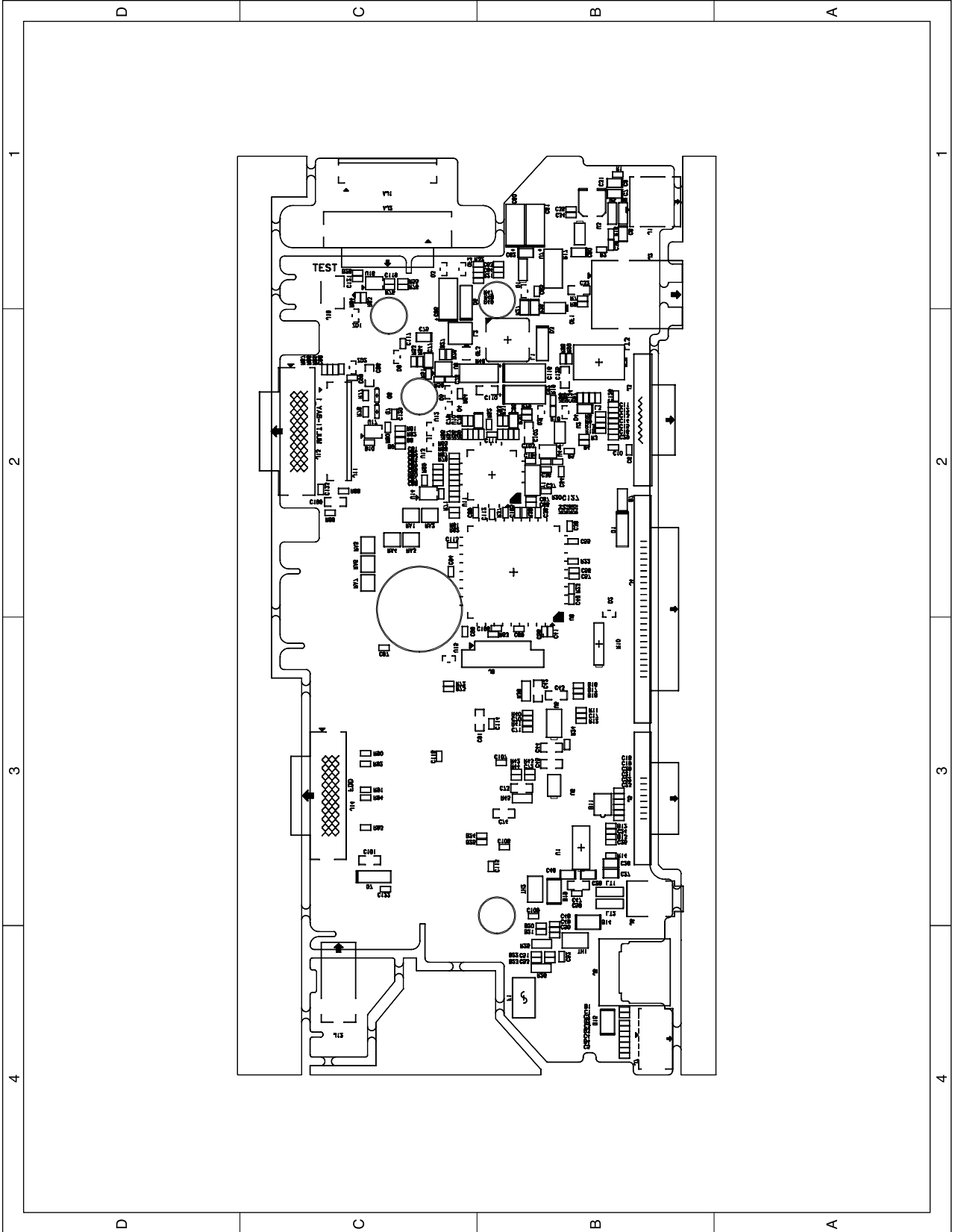


8-3-1(i) Docking Main Board Schematic Sheet 10 of 10(IDE(0) TEST & SPDIF BOARD)



8-3-2 PCB Silkscreen





8-3-3 Docking Main Parts List

REF.	SEC CODE	DESCRIPTION	SPECIFICATIONS	Q'TY
U12 U13	0401-000191	sot23	DIODE-SWITCHING, 75V,200MA	2
D1 D5 D7	0402-001097	sma	DIODE-SCHOTTKY,40V,1000MA,DO-214AC,TP	3
D3	0402-001405	sma	DIODE-RECTIFIER,40,3A,SMA,TP	1
D2 D6	0404-000114	sot23	DIODE-SCHOTTKY,30V,-,SOT-23,TP	2
ZD1 ZD2	0406-001005	sot23	DIODE-TVS;SM05,6V/1mA,300,SOT-23	2
D4	0407-000112	sot23	DIODE-ARRAY,70V,200MA,CA2-3,TP	1
Q1	0501-000458	sot23	TR-SMALL SIGNAL,NPN,350mW,TP	1
Q3 Q4	0504-000127	sot23	TR-DIGITAL;- ,NPN,200MW,10K/10KTP	2
Q2 Q5 QF2	0505-000110	sot23	FET-SILICON;2N7002,N,60V,115MA,7.5OHM,0.3W,SOT-23	3
U3	0505-000275	sop8a	FET-SILICON;SI4435DY,P,-30V,+8.0A,0.014ohm,2.5W	1
QF1	0505-000281	sop8a	FET-SILICON;SI4410DY,N,30V,+10A,0.011ohm,2.5W,SO	1
QF3	0505-001165	sop6b	pmos_fet_4d, FET-SILICON,P,-20V,+3.5mA,65mohm	1
U4 U14 U16 U17	0801-002462	sot23-5	IC-CMOS LOGIC;7SZ125,GATE BUFFER,SOT-23,5P,63MIL	4
U8	0904-001578	sqfp184a	IC-BUS CONTROLLER16BIT,QFP,184P,787	1
U11	0904-001579	sqfp64b	IC-BUS CONTROLLER,-,QFP,64P,394MIL,-,T	1
U1	1006-001165	ssop28c	IC-LINE TRANSCEIVER,SSOP,28P,200MIL,-,TP,PA	1
U2	1201-000166	sop8a	IC-OP AMP;358,SOP,8P,150MIL,DUAL,100V/mV	1
U6	1201-001143	sop8d	IC-AUDIO AMP;4861,SOP,8P,150MIL,SINGLE,-,PLASTIC	1
U5	1201-001559	ssop20-hit	IC-AUDIO AMP;4863,20P,173MIL,DUAL,98dB,PLAS	1
U7	1203-001472	sop8g	IC-SWITCH REG.;1624,SOP,8P,150MIL,PLASTIC,1.1	1
U9	1203-001964	sot23-6	IC-VOL. REFERANCE;1772,6P,60MIL,PLASTIC,1	1
U15	1203-002364	sot23	IC-RESET,SOT-23,3P,63MIL,PLASTIC,3.3V	1
F1	1404-000134	fuse_smd2	THERMISTOR-PTC;0.14ohm,-,-,15V,40A,2.5A,TP	1
TH1 TH2	1404-001065	fuse_smd4	THERMISTOR-PTC;0.11ohm,-,-,13.2V,40A,1.5A,TP	2
R25 R26	2007-000033	r3216	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	2
R52	2007-000048	r1608	R-CHIP;6.19Kohm,1%,1/16W,DA,TP,1608	1
R53	2007-000063	r1608	R-CHIP;150Kohm,1%,1/16W,DA,TP,1608	1
R23	2007-000070	r1608	res, R-CHIP;0ohm,5%,1/16W,DA,TP,1608	1
R6 R9	2007-000072	r1608	res, R-CHIP;47ohm,5%,1/16W,DA,TP,1608	2
R62 R67 R76	2007-000074	r1608	res, R-CHIP;100ohm,5%,1/16W,DA,TP,1608	3
R55	2007-000075	r1608	res, R-CHIP;220ohm,5%,1/16W,DA,TP,1608	1
R16 R65 R85 R86	2007-000078	r1608	res, R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	4
R90 R91 R92 R93 R94	2007-000084	r1608	res, R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	5
R88	2007-000086	r1608	res, R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	1
R21	2007-000087	r1608	res, R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	1
R14 R20 R22 R37	2007-000090	r1608	res, R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	13
R38 R60 R61 R66				
R70 R71 R80 R87				
R89				

REF.	SEC CODE	DESCRIPTION	SPECIFICATIONS	Q'TY
R12 R41	2007-001010	r1608	res, R-CHIP;51Kohm,5%,1/16W,DA,TP,1608	2
R1 R24 R73	2007-000093	r1608	res, R-CHIP;20Kohm,5%,1/16W,DA,TP,1608	3
R18	2007-000096	r1609	res, R-CHIP;30Kohm,5%,1/16W,DA,TP,1608	1
R11 R40 R83	2007-000097	r1608	res, R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	3
R42 R44		r1608	res, R-CHIP;68Kohm,5%,1/16W,DA,TP,1608	2
R43		r1608	res, R-CHIP;39Kohm,5%,1/16W,DA,TP,1608	1
R3 R5 R19 R29 R32	2007-000102	r1608	res, R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	8
R50 R64 R84				
R4	2007-000105	r1608	res, R-CHIP;200Kohm,5%,1/16W,DA,TP,1608	1
R63 R69	2007-000113	r1608	res, R-CHIP;33ohm,5%,1/16W,DA,TP,1608	2
R81 R82	2007-000124	r1608	res, R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	2
R28	2007-000286	r2012	R-CHIP;100ohm,1%,1/10W,DA,TP,2012	1
R13 R15	2007-000309	r1608	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	2
R2 R77 R78	2007-000539	r1608	R-CHIP;200ohm,5%,1/16W,DA,TP,1608	3
R27	2007-000586	r2012	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	1
R97	2007-000821	r1608	res_t, R-CHIP;390ohm,1%,1/16W,DA,TP,1608	1
R48	2007-000910	r1608	R-CHIP;43Kohm,1%,1/16W,DA,TP,1608	1
R51	2007-000923	r1608_reflow	R-CHIP;470Kohm,1%,1/16W,DA,TP,1608	1
R31 U10	2007-000962	r1608	R-CHIP;5.1Kohm,1%,1/16W,DA,TP,1608	2
R33 R34 R35 R36	2007-001044	r1608	res, R-CHIP;56ohm,5%,1/16W,DA,TP,1608	8
R56 R57 R58 R59				
R7 R8 R98 R99	2007-001167	r1608	res, R-CHIP;75ohm,5%,1/16W,DA,TP,1608	4
R46	2007-007568	r6331	R-CHIP;0.033ohm,1%,1W,6331	1
R47	2007-002900	r1608	res_t, R-CHIP;11Kohm,1%,1/16W,DA,TP,1608	1
R49	2007-002906	r1608	res_t, R-CHIP;200Kohm,1%,1/16W,DA,TP,1608	1
R17	2007-007570	r6331	res_pt, R-CHIP;0.02ohm,1%,1W,DA,TP,6.3X3.1X1.9MM	1
R30	2007-007720	r1608	R-CHIP;300KOHM,1%,1/16W,DA,TP,1608	1
RA5	2011-000002	mnr14	R-NETWORK;22ohm,5%,63mW,L,CHIP,8P,TP	1
RA1 RA2 RA3 RA4	2011-000881	mnr14	rmeta, R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP	6
RA6 RA7				
R10	2011-001295	ssop28e	RC-NETWORK;2.2K/330OHM,10%,220PF,17,5V,28P	1
C2 C6 C10 C34 C35	2203-000189	c1608	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	44
C38 C39 C40 C41				
C50 C52 C54 C55				
C56 C57 C58 C59				
C67 C69 C71 C83				
C86 C87 C89 C90				
C94 C98 C99 C103				
C105 C106 C107				

REF.	SEC CODE	DESCRIPTION	SPECIFICATIONS	Q'TY
C108 C109 C111 C112 C113 C114 C115 C117 C118 C120 C122 C123	2203-000189	c1608	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
C7 C8 C9 C62 C75	2203-000206	c2012	C-CERAMIC,CHIP;100nF,10%,50V,X7R,TP,2012	5
C1 C3 C4 C5 C48 C49 C51 C53 C63 C124	2203-000236	c1608	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,1608	10
C77	2203-000239	c2012	C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	1
C97 C119 C127	2203-000257	c1608	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	3
C80	2203-000260	c2012	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	1
C36 C37	2203-000384	c1608	C-CERAMIC,CHIP;0.015nF,5%,50V,NP0,TP,1608	2
C64 C65 C68 C76 C81 C82 C84 C85 C88 C104	2203-000440	c1608	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	10
C26 C27 C28 C46	2203-000476	c2012	C-CERAMIC,CHIP;1000nF,+80-20%,16V,Y5V,TP,2012	4
C15 C16 C29	2203-000626	c1608	C-CERAMIC,CHIP;0.022nF,5%,50V,NP0,TP,1608	3
C17 C70	2203-000332	c1608	ccap, C-CERAMIC,CHIP;0.012nF,5%,50V,NP0,TP,1608	2
C126	2203-000903	c1608	C-CERAMIC,CHIP;0.0047nF,0.25pF,50V,NP0,TP,1608	1
C72	2203-000998	c1608	ccap, C-CERAMIC,CHIP;0.0470nF,5%,50V,NP0,TP,1608	1
C121	2203-001408	c1608	C-CERAMIC,CHIP;0.27nF,5%,50V,NP0,TP,1608	1
C18 C19 C20 C21 C22 C23 C24 C25	2203-001656	c1608	C-CERAMIC,CHIP;0.47nF,5%,50V,NP0,TP,1608	8
C110	2203-001724	c3216	C-CERAMIC,CHIP;4700NF,+80-20%,16V,Y5V,TP,3216	1
C11 C12 C13 C14 C79 C93	2203-005194	c1608	C-CERAMIC,CHIP;220pF,10%,50V,X7R,TP,1608,-	6
C78 C95	2203-005198	c2012	C-CERAMIC,CHIP;1uF,10%,10V,X5R,TP,2012,-	2
C42 C73	2203-005261	c3216	C-CERAMIC,CHIP;1000nF,10%,25V,X7R,TP,3216	2
C43 C44 C45 C47 C74 C91 C96 C100 C101 C102	2203-005437	c3216	C-CERAMIC,CHIP;10000nF,+80-20%,10V,Y5V,TP,3216	10
C31	2402-001046	secap2628	C-AL,SMD;68uF,20%,25V,LZ,6.6x6.6x6,4.75	1
C66 C92 C116	2402-001109	c7343	C-POLYMER AL CHIP;100uF,20%,6.3V,LZ,TP,7.3x4.3x3.	3
C60 C61	2402-001125	c7343	C-POLYMER AL CHIP;15UF,20%,25V,-,TP,7.3X4.3X1.9MM	2
LT3	2603-000048	smd-trans-16p-a	TRANS-MATCHING;-;1:1,1:1,-,16P,11.81x8.63x2.15mm	1
L2	2703-001432	cd43	INDUCTOR-SMD;4.7uH,20%,4x4.5x3.2mm	1
L1	2703-002085	cdrh104r	INDUCTOR-SMD;10uH,30%,10x10.1x3.8mm	1
Y1	2801-003898	fa365	CRYSTAL-SMD;24.576MHz,50ppm,28-ACC,12pF,50ohm,TP	1
B1 B2 B3 B4 B12	3301-000314	b1608	CORE-FERRITE BEAD;AB,120ohm,1.6x0.8x0.8mm,150mA,T	13

REF.	SEC CODE	DESCRIPTION	SPECIFICATIONS	Q'TY
B13 B16 B17 B18 B20 B21 B22 B23	3301-000314	b1608	CORE-FERRITE BEAD;AB,120ohm,1.6x0.8x0.8mm,150mA,T	
B7	3301-000322	b3216h	CORE-FERRITE BEAD;AB,31ohm 3.2x1.6x1.1mm,-,-,	1
B14 B15 B19	3301-000326	bead1310	CORE-FERRITE BEAD;AB,60ohm 3.2x2.5x1.3mm,1000,3000G,	3
B11	3301-000361	beadnet_12	CORE-FERRITE BEAD;120ohm,5x2x0.9mm,200mA	1
B5 B6	3301-001162	b3216	CORE-FERRITE BEAD;AB,68ohm,3.2x1.6x0.9mm,3000mA,T	2
B24 B25 B26 B27 B28	3301-001233	b1608	CORE-FERRITE BEAD;AB,300ohm,1.6x0.8x0.8mm,230mA,T	5
B8 B9 B10	3301-001499	b1608	CORE-FERRITE BEAD;SMD,75ohm,1.6X0.8X0.8MM,300MA,T	3
J10	3711-004318	53780-0290	CONNECTOR-HEADER;BOX,2P,1R,1.25MM,SMD-A,AUF, HDR-2P-SMD	1
Q6 Q7	516580	sot-6	FET-SILICON;-N, P,N:50V , P:-50V,N:0.51A	2
C32 C125	542176	c3216	C-CERAMIC,CHIP;1NF,10%,2KV,X7R,TP,3216	2
LT1 LT2	BA27-00018A	plw3216s	CHOKE;PLW3216S161SQ2,1600HM AT 100MHZ,-,3.2X	2
J502	3710-001811	wd-100p4v-vf120-n-t45	CONNECTOR-SOCKET;100P,2R,0.5MM,SMD,AU	1
J500 J503 J504 J505 J506	3711-004318	53780-0290	CONNECTOR-HEADER;BOX,2P,1R,1.25MM,SMD-A,AUF, HDR-2P-SMD	5
		SPDIF HANESS	AWG30, 65mm	1
J13 J14	3711-004445	84739-6	CONNECTOR-SOCKET;60P,-,0.8MM,ANGLE,AU30U, SOCKET-60P-3R	2
J12	599983	RC25-01T1	JACK-PIN;1P,8.3mm,NI,BLACK,NO, JACK-RCA-3P	1
J6	3722-001618	54516-0491	STD(IEEE P1394A),Y,RIGHT ANGLE,-,, JACK-MODULAR-4P	1
J2	3722-001710	569564-3	JACK-MODULAR;8P,-,Y,-,-,GRN/ORG,YEL,BLK,AU3	1
J1	3722-001771	PDJ010	JACK-DC POWER;3P,-,AU,BLK,-	1
J8	410407	2522Ay-08G2T-M	JACK-USB;8P,-,-,BLACK,-, JACK-USB-8P	1
J5	3701-001268	DSUB-9-FEMALE	CONNECTOR-DSUB;9P,2R,MALE,-,AU	1
J4	3701-001269	DSUB-25-FEMALE	CONNECTOR-DSUB;25P,2R,FEMALE,-,AU,	1
J3	3701-001270	DSUB-15-FEMALE	CONNECTOR-DSUB;15P,3R,FEMALE,-,AU	1
J7	563399	35136s-06t1-ck	din-6s-1r-mnt4, JACK-DIN;6P,-,AU,GREEN,-	1

8-3-4 Docking Location Part List

Ref.	SEC Code	Sheet	Loc.	Ref.	SEC Code	Sheet	Loc.
AJ1	3708-001172	gemini_dock-11	3-B	C108	2203-000189	gemini_dock-6	2-D
AJ2	3709-001191	gemini_dock-11	4-C	C109	2203-000189	gemini_dock-6	3-D
B1	3301-000314	gemini_dock-9	4-B	C11	2203-005194	gemini_dock-9	2-B
B10	3301-001499	gemini_dock-9	2-C	C110	2203-001724	gemini_dock-10	3-C
B11	3301-000361	gemini_dock-4	3-D	C111	2203-000189	gemini_dock-5	3-C
B12	3301-000314	gemini_dock-4	3-D	C112	2203-000189	gemini_dock-6	2-D
B13	3301-000314	gemini_dock-4	3-D	C113	2203-000189	gemini_dock-6	3-D
B14	3301-000326	gemini_dock-4	1-D	C114	2203-000189	gemini_dock-6	2-D
B15	3301-000326	gemini_dock-9	4-C	C115	2203-000189	gemini_dock-6	2-D
B16	3301-000314	gemini_dock-8	4-D	C116	2402-001109	gemini_dock-10	3-D
B17	3301-000314	gemini_dock-8	4-D	C117	2203-000189	gemini_dock-6	2-D
B18	3301-000314	gemini_dock-8	4-D	C118	2203-000189	gemini_dock-6	2-D
B19	3301-000326	gemini_dock-4	1-D	C119	2203-000257	gemini_dock-9	2-A
B2	3301-000314	gemini_dock-9	4-B	C12	2203-005194	gemini_dock-9	2-B
B20	3301-000314	gemini_dock-4	1-D	C120	2203-000189	gemini_dock-6	2-D
B21	3301-000314	gemini_dock-4	1-D	C121	2203-001408	gemini_dock-9	1-A
B22	3301-000314	gemini_dock-4	1-D	C122	2203-000189	gemini_dock-6	3-D
B23	3301-000314	gemini_dock-4	1-D	C123	2203-000189	gemini_dock-6	3-D
B24	3301-001233	gemini_dock-8	1-D	C124	2203-000236	gemini_dock-9	4-A
B25	3301-001233	gemini_dock-8	1-D	C125	542176	gemini_dock-9	4-A
B26	3301-001233	gemini_dock-8	1-D	C126	2203-000903	gemini_dock-9	4-A
B27	3301-001233	gemini_dock-8	1-D	C127	2203-000257	gemini_dock-6	1-D
B28	3301-001233	gemini_dock-9	2-A	C13	2203-005194	gemini_dock-9	2-B
B3	3301-000314	gemini_dock-9	4-B	C14	2203-005194	gemini_dock-9	2-B
B4	3301-000314	gemini_dock-9	4-B	C15	2203-000626	gemini_dock-9	2-B
B5	3301-001162	gemini_dock-3	2-D	C16	2203-000626	gemini_dock-9	2-B
B6	3301-001162	gemini_dock-3	2-D	C17	2203-000332	gemini_dock-8	2-D
B7	3301-000322	gemini_dock-9	2-C	C18	2203-001656	gemini_dock-4	2-D
B8	3301-001499	gemini_dock-9	2-B	C19	2203-001656	gemini_dock-4	2-D
B9	3301-001499	gemini_dock-9	2-C	C2	2203-000189	gemini_dock-9	4-B
C1	2203-000236	gemini_dock-9	4-B	C20	2203-001656	gemini_dock-4	2-D
C10	2203-000189	gemini_dock-9	2-B	C21	2203-001656	gemini_dock-4	2-D
C100	2203-005437	gemini_dock-7	1-C	C22	2203-001656	gemini_dock-4	2-D
C101	2203-005437	gemini_dock-7	1-C	C23	2203-001656	gemini_dock-4	2-D
C102	2203-005437	gemini_dock-5	2-D	C24	2203-001656	gemini_dock-4	2-D
C103	2203-000189	gemini_dock-5	3-C	C25	2203-001656	gemini_dock-4	2-D
C104	2203-000440	gemini_dock-5	2-C	C26	2203-000476	gemini_dock-4	3-D
C105	2203-000189	gemini_dock-6	2-D	C27	2203-000476	gemini_dock-4	3-D
C106	2203-000189	gemini_dock-6	3-D	C28	2203-000476	gemini_dock-4	3-D
C107	2203-000189	gemini_dock-6	2-D	C29	2203-000626	gemini_dock-9	2-B

Ref.	SEC Code	Sheet	Loc.
C3	2203-000236	gemini_dock-9	4-B
C30	2203-000257	gemini_dock-3	2-C
C31	2402-001046	gemini_dock-3	2-D
C32	542176	gemini_dock-9	4-A
C34	2203-000189	gemini_dock-3	1-D
C35	2203-000189	gemini_dock-3	1-D
C36	2203-000384	gemini_dock-5	4-D
C37	2203-000384	gemini_dock-5	4-D
C38	2203-000189	gemini_dock-6	4-D
C39	2203-000189	gemini_dock-3	1-D
C4	2203-000236	gemini_dock-9	4-B
C40	2203-000189	gemini_dock-6	4-D
C41	2203-000189	gemini_dock-6	3-D
C42	2203-005261	gemini_dock-8	2-D
C43	2203-005437	gemini_dock-8	3-D
C44	2203-005437	gemini_dock-8	1-D
C45	2203-005437	gemini_dock-8	1-D
C46	2203-000476	gemini_dock-4	3-D
C47	2203-005437	gemini_dock-4	2-D
C48	2203-000236	gemini_dock-4	1-D
C49	2203-000236	gemini_dock-4	1-D
C5	2203-000236	gemini_dock-9	4-B
C50	2203-000189	gemini_dock-4	1-D
C51	2203-000236	gemini_dock-4	1-D
C52	2203-000189	gemini_dock-4	1-D
C53	2203-000236	gemini_dock-4	1-D
C54	2203-000189	gemini_dock-6	3-D
C55	2203-000189	gemini_dock-6	3-D
C56	2203-000189	gemini_dock-6	3-D
C57	2203-000189	gemini_dock-6	4-D
C58	2203-000189	gemini_dock-6	3-D
C59	2203-000189	gemini_dock-6	2-D
C6	2203-000189	gemini_dock-6	3-D
C60	2402-001125	gemini_dock-10	4-D
C61	2402-001125	gemini_dock-10	4-D
C62	2203-000206	gemini_dock-10	3-D
C63	2203-000236	gemini_dock-10	4-C
C64	2203-000440	gemini_dock-10	4-D
C65	2203-000440	gemini_dock-10	4-D
C66	2402-001109	gemini_dock-10	3-B

Ref.	SEC Code	Sheet	Loc.
C67	2203-000189	gemini_dock-5	3-C
C68	2203-000440	gemini_dock-5	2-C
C69	2203-000189	gemini_dock-6	4-D
C7	2203-000206	gemini_dock-3	3-D
C70	2203-000332	gemini_dock-8	2-D
C71	2203-000189	gemini_dock-8	3-D
C72	2203-000998	gemini_dock-8	2-D
C73	2203-005261	gemini_dock-8	2-D
C74	2203-005437	gemini_dock-6	3-D
C75	2203-000206	gemini_dock-10	3-B
C76	2203-000440	gemini_dock-10	4-B
C77	2203-000239	gemini_dock-10	3-B
C78	2203-005198	gemini_dock-5	2-D
C79	2203-005194	gemini_dock-5	2-D
C8	2203-000206	gemini_dock-3	2-D
C80	2203-000260	gemini_dock-3	1-D
C81	2203-000440	gemini_dock-5	2-C
C82	2203-000440	gemini_dock-5	2-C
C83	2203-000189	gemini_dock-5	3-C
C84	2203-000440	gemini_dock-5	2-C
C85	2203-000440	gemini_dock-5	2-C
C86	2203-000189	gemini_dock-5	3-C
C87	2203-000189	gemini_dock-5	3-C
C88	2203-000440	gemini_dock-5	2-D
C89	2203-000189	gemini_dock-6	2-D
C9	2203-000206	gemini_dock-3	3-D
C90	2203-000189	gemini_dock-6	3-D
C91	2203-005437	gemini_dock-6	4-D
C92	2402-001109	gemini_dock-10	3-D
C93	2203-005194	gemini_dock-5	2-D
C94	2203-000189	gemini_dock-6	4-D
C95	2203-005198	gemini_dock-5	2-D
C96	2203-005437	gemini_dock-9	4-A
C97	2203-000257	gemini_dock-8	4-D
C98	2203-000189	gemini_dock-7	1-B
C99	2203-000189	gemini_dock-7	1-B
D1	0402-001097	gemini_dock-9	2-C
D2	0404-000114	gemini_dock-4	1-D
D3	0402-001405	gemini_dock-10	3-D
D4	0407-000112	gemini_dock-3	1-C

Ref.	SEC Code	Sheet	Loc.
D5	0402-001097	gemini_dock-10	3-C
D6	0404-000114	gemini_dock-9	2-A
D7	0402-001097	gemini_dock-7	1-D
F1	1404-000134	gemini_dock-9	4-C
J1		gemini_dock-3	3-D
J10	3711-004318	gemini_dock-10	4-D
J11	3708-001172	gemini_dock-7	1-B
J12	3722-001106	gemini_dock-11	2-C
J13	3710-001714	gemini_dock-7	1-C
J14	3710-001714	gemini_dock-7	1-B
J2		gemini_dock-9	4-A
J3	3701-001270	gemini_dock-9	1-B
J4	3701-001269	gemini_dock-4	1-D
J5	3701-001268	gemini_dock-4	2-D
J500	3711-004318	gemini_dock-8	1-D
J502		gemini_dock-3	2-D
J503	3711-004318	gemini_dock-8	1-D
J504	3711-004318	gemini_dock-8	3-D
J505	3711-004318	gemini_dock-8	1-D
J506	3711-004318	gemini_dock-9	1-A
J6	3722-001618	gemini_dock-5	1-C
J7	563399	gemini_dock-9	4-B
J8	410407	gemini_dock-4	1-D
J9		gemini_dock-6	1-D
L1	2703-002085	gemini_dock-10	3-D
L2	2703-001432	gemini_dock-10	3-C
L3	2703-000269	gemini_dock-9	4-A
LT1	BA27-00018A	gemini_dock-5	1-C
LT2	BA27-00018A	gemini_dock-5	1-C
LT3	2603-000048	gemini_dock-9	4-A
MT1			2-A
MT2			1-A
MT3			2-A
MT4			2-A
MT5			4-A
MT6			2-A
MT7			2-A
MT8			2-A
MT9		gemini_dock-11	2-B
Q1	0501-000458	gemini_dock-10	4-D

Ref.	SEC Code	Sheet	Loc.
Q2	0505-000110	gemini_dock-3	1-C
Q3	0504-000127	gemini_dock-10	4-D
Q4	0504-000127	gemini_dock-10	4-B
Q5	0505-000110	gemini_dock-10	4-C
Q6	516580	gemini_dock-9	4-A
Q7	516580	gemini_dock-9	4-A
QF1	0505-000281	gemini_dock-10	3-D
QF2	0505-000110	gemini_dock-10	4-D
QF3	0505-001165	gemini_dock-10	3-C
R1	2007-000093	gemini_dock-3	3-D
R10	2011-001295	gemini_dock-4	1-D
R11	2007-000097	gemini_dock-8	2-D
R12	2007-001010	gemini_dock-8	2-D
R13	2007-000309	gemini_dock-9	2-B
R14	2007-000090	gemini_dock-4	3-D
R15	2007-000309	gemini_dock-9	2-B
R16	2007-000078	gemini_dock-3	2-D
R17	2007-007046	gemini_dock-10	3-D
R18	2007-000096	gemini_dock-3	1-C
R19	2007-000102	gemini_dock-3	1-C
R2	2007-000539	gemini_dock-9	3-A
R20	2007-000090	gemini_dock-6	1-D
R21	2007-000087	gemini_dock-10	4-D
R22	2007-000090	gemini_dock-6	2-D
R23	2007-000070	gemini_dock-6	2-D
R24	2007-000093	gemini_dock-8	1-D
R25	2007-000033	gemini_dock-4	1-D
R26	2007-000033	gemini_dock-4	1-D
R27	2007-000586	gemini_dock-10	4-D
R28	2007-000286	gemini_dock-10	4-D
R29	2007-000102	gemini_dock-3	1-D
R3	2007-000102	gemini_dock-3	1-D
R30	2007-007720	gemini_dock-3	1-D
R31	2007-000962	gemini_dock-5	2-D
R32	2007-000102	gemini_dock-10	4-D
R33	2007-001044	gemini_dock-5	2-D
R34	2007-001044	gemini_dock-5	2-D
R35	2007-001044	gemini_dock-5	2-D
R36	2007-001044	gemini_dock-5	2-D
R37	2007-000090	gemini_dock-6	4-D

Ref.	SEC Code	Sheet	Loc.
R38	2007-000090	gemini_dock-6	4-D
R39	2007-000033	gemini_dock-8	4-D
R4	2007-000105	gemini_dock-3	1-D
R40	2007-000097	gemini_dock-8	2-D
R41	2007-001010	gemini_dock-8	2-D
R42	2007-001125	gemini_dock-8	2-D
R43	2007-000130	gemini_dock-8	2-D
R44	2007-001125	gemini_dock-8	2-D
R45	2007-000033	gemini_dock-8	4-D
R46	2007-001280	gemini_dock-10	3-C
R47	2007-002900	gemini_dock-10	3-C
R48	2007-000910	gemini_dock-10	3-D
R49	2007-002906	gemini_dock-10	3-D
R5	2007-000102	gemini_dock-3	2-D
R50	2007-000102	gemini_dock-10	4-C
R51	2007-000923	gemini_dock-10	3-C
R52	2007-000048	gemini_dock-5	3-D
R53	2007-000063	gemini_dock-10	3-B
R54	2007-001161	gemini_dock-10	3-B
R55	2007-000075	gemini_dock-9	2-A
R56	2007-001044	gemini_dock-5	2-D
R57	2007-001044	gemini_dock-5	2-D
R58	2007-001044	gemini_dock-5	2-D
R59	2007-001044	gemini_dock-5	2-D
R6	2007-000072	gemini_dock-9	2-B
R60	2007-000090	gemini_dock-5	2-D
R61	2007-000090	gemini_dock-5	4-D
R62	2007-000074	gemini_dock-5	3-D
R63	2007-000113	gemini_dock-6	2-D
R64	2007-000102	gemini_dock-10	4-C
R65	2007-000078	gemini_dock-5	2-D
R66	2007-000090	gemini_dock-5	2-D
R67	2007-000074	gemini_dock-5	3-D
R69	2007-000113	gemini_dock-6	3-D
R7	2007-001167	gemini_dock-9	4-A
R70	2007-000090	gemini_dock-5	2-D
R71	2007-000090	gemini_dock-6	3-D
R72	2007-000070	gemini_dock-3	1-D
R73	2007-000093	gemini_dock-3	1-D
R75	2007-000074	gemini_dock-9	2-A

Ref.	SEC Code	Sheet	Loc.
R76	2007-000074	gemini_dock-9	2-A
R77	2007-000539	gemini_dock-9	3-A
R78	2007-000539	gemini_dock-9	3-A
R8	2007-001167	gemini_dock-9	4-A
R80	2007-000090	gemini_dock-3	1-D
R81	2007-000124	gemini_dock-9	3-B
R82	2007-000124	gemini_dock-9	3-B
R83	2007-000097	gemini_dock-10	4-D
R84	2007-000102	gemini_dock-10	4-D
R85	2007-000078	gemini_dock-7	1-C
R86	2007-000078	gemini_dock-7	1-C
R87	2007-000090	gemini_dock-7	1-D
R88	2007-000086	gemini_dock-7	1-C
R89	2007-000090	gemini_dock-7	1-C
R9	2007-000072	gemini_dock-9	2-B
R90	2007-000084	gemini_dock-3	1-D
R91	2007-000084	gemini_dock-3	1-D
R92	2007-000084	gemini_dock-3	1-D
R93	2007-000084	gemini_dock-3	1-D
R94	2007-000084	gemini_dock-3	1-D
R95	2007-007233	gemini_dock-9	4-A
R96	2007-007233	gemini_dock-9	4-A
R97	2007-000821	gemini_dock-9	4-A
R98	2007-001167	gemini_dock-9	4-A
R99	2007-001167	gemini_dock-9	4-A
RA1-1	2011-000881	gemini_dock-6	3-D
RA1-2	2011-000881	gemini_dock-6	3-D
RA1-3	2011-000881	gemini_dock-6	3-D
RA1-4	2011-000881	gemini_dock-6	3-D
RA2-1	2011-000881	gemini_dock-6	3-D
RA2-2	2011-000881	gemini_dock-6	3-D
RA2-3	2011-000881	gemini_dock-6	3-D
RA2-4	2011-000881	gemini_dock-6	3-D
RA3-1	2011-000881	gemini_dock-6	3-D
RA3-2	2011-000881	gemini_dock-6	3-D
RA3-3	2011-000881	gemini_dock-6	3-D
RA3-4	2011-000881	gemini_dock-6	3-D
RA4-1	2011-000881	gemini_dock-6	3-D
RA4-2	2011-000881	gemini_dock-6	3-D
RA4-3	2011-000881	gemini_dock-6	3-D

Ref.	SEC Code	Sheet	Loc.
RA4-4	2011-000881	gemini_dock-6	3-D
RA5-1	2011-000002	gemini_dock-6	3-D
RA5-2	2011-000002	gemini_dock-6	3-D
RA5-3	2011-000002	gemini_dock-6	3-D
RA6-1	2011-000881	gemini_dock-6	3-D
RA6-2	2011-000881	gemini_dock-6	3-D
RA6-3	2011-000881	gemini_dock-6	3-D
RA6-4	2011-000881	gemini_dock-6	3-D
RA7-1	2011-000881	gemini_dock-6	3-D
RA7-2	2011-000881	gemini_dock-6	3-D
RA7-3	2011-000881	gemini_dock-6	3-D
RA7-4	2011-000881	gemini_dock-6	3-D
TH1	1404-001065	gemini_dock-4	1-D
TH2	1404-001065	gemini_dock-4	1-D
TP100		gemini_dock-6	4-D
TP101		gemini_dock-6	4-D
TP102		gemini_dock-5	4-D
TP103		gemini_dock-5	3-D
TP104		gemini_dock-5	3-D
TP105		gemini_dock-5	3-D
TP110		gemini_dock-3	2-C
TP111		gemini_dock-10	4-D
TP112		gemini_dock-9	3-B
TP113		gemini_dock-9	3-B
TP114		gemini_dock-5	2-D
TP115		gemini_dock-8	2-D
TP116		gemini_dock-8	2-D
TP141		gemini_dock-8	4-D
TP143		gemini_dock-8	4-D
TP148		gemini_dock-3	3-D
TP149		gemini_dock-10	4-D
TP151		gemini_dock-7	1-C
TP153		gemini_dock-8	4-D
TP158		gemini_dock-7	1-C
TP161		gemini_dock-7	1-C
TP162		gemini_dock-7	1-C
TP163		gemini_dock-7	1-C
TP166		gemini_dock-7	1-C
TP168		gemini_dock-7	1-C
TP169		gemini_dock-7	1-C

Ref.	SEC Code	Sheet	Loc.
TP171		gemini_dock-7	1-C
TP172		gemini_dock-7	1-C
TP173		gemini_dock-7	1-D
TP175		gemini_dock-5	1-C
TP176		gemini_dock-7	1-D
TP178		gemini_dock-5	1-C
TP182		gemini_dock-7	1-C
TP184		gemini_dock-7	1-C
TP186		gemini_dock-7	1-C
TP187		gemini_dock-7	1-C
TP188		gemini_dock-7	1-C
TP190		gemini_dock-5	1-C
TP191		gemini_dock-7	1-C
TP192		gemini_dock-7	1-C
TP196		gemini_dock-7	1-D
TP197		gemini_dock-7	1-C
TP20		gemini_dock-4	3-D
TP205		gemini_dock-5	2-D
TP206		gemini_dock-5	2-D
TP21		gemini_dock-4	3-D
TP211		gemini_dock-7	1-C
TP212		gemini_dock-7	1-C
TP213		gemini_dock-7	1-C
TP217		gemini_dock-7	1-C
TP218		gemini_dock-9	3-A
TP219		gemini_dock-9	3-A
TP22		gemini_dock-4	3-D
TP220		gemini_dock-9	3-A
TP221		gemini_dock-11	2-C
TP23		gemini_dock-4	3-D
TP24		gemini_dock-4	3-D
TP25		gemini_dock-4	3-D
TP26		gemini_dock-4	3-D
TP27		gemini_dock-4	3-D
TP270		gemini_dock-3	1-D
TP272		gemini_dock-11	2-C
TP273		gemini_dock-10	4-C
TP274		gemini_dock-8	4-D
TP28		gemini_dock-9	4-B
TP29		gemini_dock-9	4-B

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TP30		gemini_dock-9	4-B	TP351		gemini_dock-4	1-D
TP309		gemini_dock-3	1-C	TP352		gemini_dock-4	1-D
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TP310		gemini_dock-3	1-D	TP354		gemini_dock-4	1-D
TP311		gemini_dock-3	1-D	TP355		gemini_dock-4	1-D
TP313		gemini_dock-3	2-D	TP356		gemini_dock-4	1-D
TP314		gemini_dock-3	1-D	TP357		gemini_dock-4	1-D
TP315		gemini_dock-3	1-D	TP358		gemini_dock-4	1-D
TP316		gemini_dock-4	3-D	TP359		gemini_dock-4	1-D
TP317		gemini_dock-4	3-D	TP36		gemini_dock-4	1-D
TP318		gemini_dock-4	3-D	TP360		gemini_dock-4	1-D
TP319		gemini_dock-4	3-D	TP361		gemini_dock-4	1-D
TP32		gemini_dock-9	4-B	TP363		gemini_dock-4	3-D
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TP328		gemini_dock-4	3-D	TP365		gemini_dock-4	3-D
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TP333		gemini_dock-4	3-D	TP370		gemini_dock-4	3-D
TP334		gemini_dock-4	3-D	TP371		gemini_dock-4	1-D
TP335		gemini_dock-4	1-D	TP372		gemini_dock-4	1-D
TP336		gemini_dock-4	1-D	TP373		gemini_dock-4	1-D
TP337		gemini_dock-4	1-D	TP374		gemini_dock-4	1-D
TP338		gemini_dock-4	1-D	TP375		gemini_dock-4	1-D
TP339		gemini_dock-4	1-D	TP376		gemini_dock-4	1-D
TP34		gemini_dock-4	1-D	TP377		gemini_dock-4	1-D
TP340		gemini_dock-4	1-D	TP378		gemini_dock-4	3-D
TP341		gemini_dock-4	1-D	TP379		gemini_dock-4	3-D
TP342		gemini_dock-4	1-D	TP380		gemini_dock-4	3-D
TP343		gemini_dock-4	1-D	TP381		gemini_dock-4	3-D
TP344		gemini_dock-4	1-D	TP382		gemini_dock-5	2-D
TP345		gemini_dock-4	1-D	TP383		gemini_dock-5	2-D
TP346		gemini_dock-4	1-D	TP384		gemini_dock-5	2-D
TP347		gemini_dock-4	1-D	TP386		gemini_dock-4	1-D
TP348		gemini_dock-4	1-D	TP387		gemini_dock-5	1-C
TP349		gemini_dock-4	1-D	TP388		gemini_dock-5	1-C
TP35		gemini_dock-4	1-D	TP389		gemini_dock-5	1-C
TP350		gemini_dock-4	1-D	TP39		gemini_dock-9	4-A

Ref.	SEC Code	Sheet	Loc.
TP390		gemini_dock-5	1-C
TP391		gemini_dock-6	3-D
TP392		gemini_dock-6	3-D
TP393		gemini_dock-6	3-D
TP394		gemini_dock-6	3-D
TP395		gemini_dock-6	2-D
TP396		gemini_dock-6	2-D
TP397		gemini_dock-6	2-D
TP398		gemini_dock-6	1-D
TP399		gemini_dock-6	3-D
TP40		gemini_dock-3	1-D
TP400		gemini_dock-6	3-D
TP401		gemini_dock-6	3-D
TP402		gemini_dock-6	3-D
TP403		gemini_dock-6	3-D
TP404		gemini_dock-6	3-D
TP405		gemini_dock-6	3-D
TP406		gemini_dock-6	3-D
TP407		gemini_dock-6	3-D
TP408		gemini_dock-6	3-D
TP409		gemini_dock-6	3-D
TP41		gemini_dock-3	1-D
TP410		gemini_dock-6	3-D
TP411		gemini_dock-6	3-D
TP413		gemini_dock-6	3-D
TP414		gemini_dock-6	3-D
TP415		gemini_dock-6	3-D
TP416		gemini_dock-6	3-D
TP417		gemini_dock-6	3-D
TP42		gemini_dock-3	1-D
TP420		gemini_dock-6	3-D
TP421		gemini_dock-6	3-D
TP422		gemini_dock-6	3-D
TP423		gemini_dock-6	3-D
TP424		gemini_dock-6	3-D
TP425		gemini_dock-6	1-D
TP426		gemini_dock-6	1-D
TP427		gemini_dock-6	1-D
TP428		gemini_dock-6	1-D
TP429		gemini_dock-6	1-D

Ref.	SEC Code	Sheet	Loc.
TP43		gemini_dock-5	2-D
TP430		gemini_dock-6	1-D
TP431		gemini_dock-7	1-C
TP432		gemini_dock-7	1-C
TP434		gemini_dock-7	1-C
TP435		gemini_dock-7	1-C
TP436		gemini_dock-7	1-C
TP437		gemini_dock-7	1-B
TP438		gemini_dock-7	1-B
TP439		gemini_dock-7	1-B
TP440		gemini_dock-7	1-B
TP441		gemini_dock-7	1-B
TP442		gemini_dock-7	1-D
TP443		gemini_dock-7	1-C
TP444		gemini_dock-7	1-C
TP447		gemini_dock-7	1-C
TP448		gemini_dock-7	1-C
TP449		gemini_dock-7	1-C
TP45		gemini_dock-5	1-C
TP450		gemini_dock-7	1-C
TP451		gemini_dock-7	1-B
TP452		gemini_dock-7	1-B
TP453		gemini_dock-7	1-B
TP454		gemini_dock-9	4-B
TP455		gemini_dock-9	4-B
TP456		gemini_dock-9	4-B
TP457		gemini_dock-9	3-B
TP458		gemini_dock-9	2-C
TP459		gemini_dock-9	2-C
TP46		gemini_dock-9	4-C
TP462		gemini_dock-9	4-A
TP465		gemini_dock-9	2-B
TP469		gemini_dock-9	2-C
TP47		gemini_dock-10	3-D
TP474		gemini_dock-9	3-A
TP475		gemini_dock-9	2-A
TP476		gemini_dock-9	2-A
TP477		gemini_dock-9	4-A
TP48		gemini_dock-4	1-D
TP480		gemini_dock-9	3-A

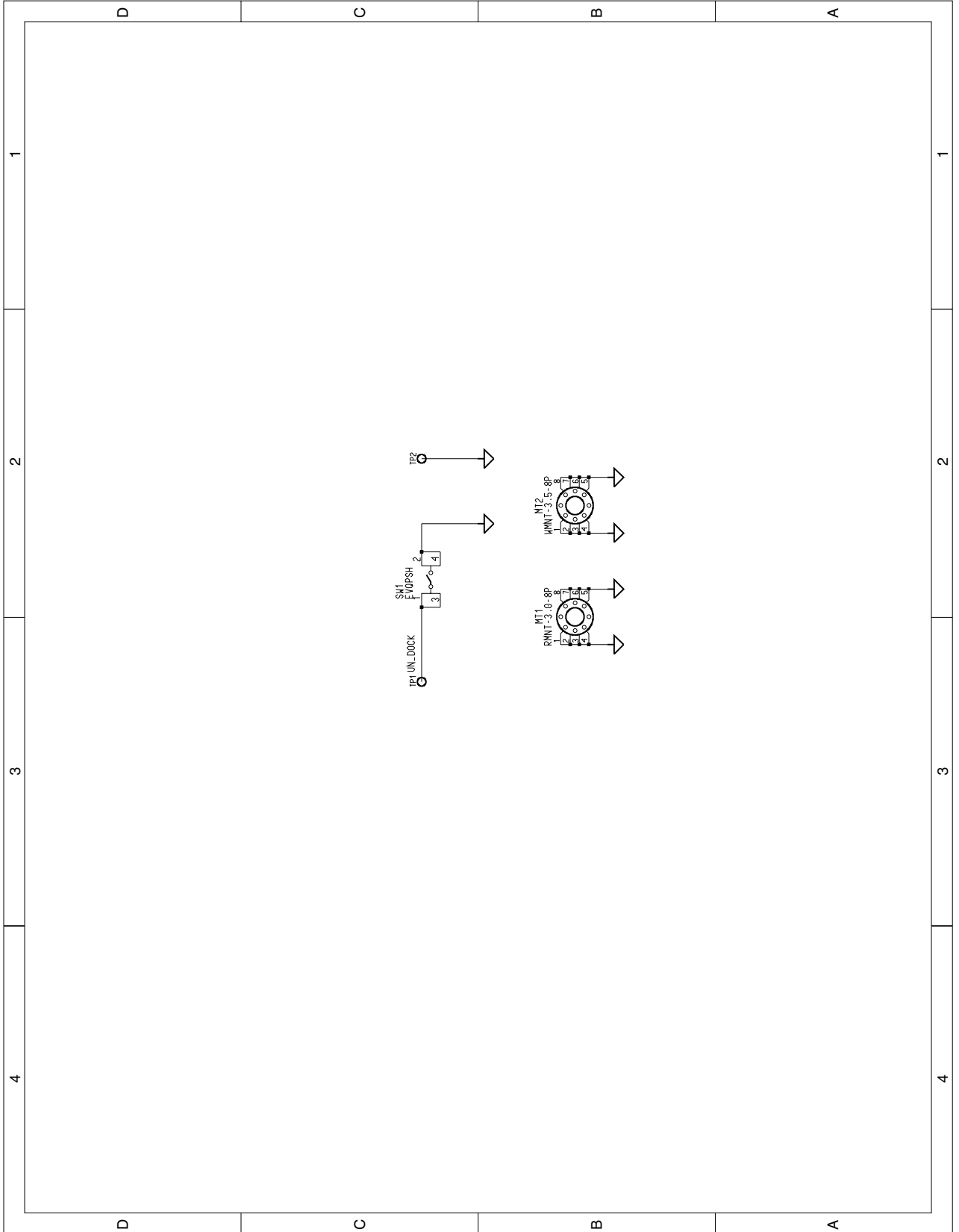
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TP483		gemini_dock-9	4-B	TP52		gemini_dock-3	2-D
TP484		gemini_dock-9	3-B	TP520		gemini_dock-9	1-A
TP485		gemini_dock-9	3-B	TP53		gemini_dock-3	1-D
TP486		gemini_dock-9	3-B	TP54		gemini_dock-3	1-C
TP487		gemini_dock-11	3-B	TP55		gemini_dock-5	3-D
TP488		gemini_dock-10	4-C	TP56		gemini_dock-5	3-D
TP489		gemini_dock-10	4-B	TP58		gemini_dock-8	2-D
TP49		gemini_dock-4	1-D	TP59		gemini_dock-8	2-D
TP490		gemini_dock-10	3-C	TP60		gemini_dock-8	2-D
TP491		gemini_dock-10	4-B	TP61		gemini_dock-8	2-D
TP492		gemini_dock-10	3-C	TP62		gemini_dock-8	1-D
TP493		gemini_dock-3	2-D	TP63		gemini_dock-8	1-D
TP494		gemini_dock-6	4-D	TP64		gemini_dock-8	1-D
TP495		gemini_dock-5	3-D	TP65		gemini_dock-8	4-D
TP496		gemini_dock-5	2-D	TP66		gemini_dock-8	2-D
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TP499		gemini_dock-3	1-D	TP70		gemini_dock-10	3-D
TP50		gemini_dock-10	3-D	TP71		gemini_dock-10	4-D
TP500		gemini_dock-3	1-C	TP73		gemini_dock-10	4-D
TP501		gemini_dock-3	1-D	TP74		gemini_dock-3	1-C
TP502		gemini_dock-9	2-A	TP75		gemini_dock-3	1-D
TP503		gemini_dock-9	2-A	TP76		gemini_dock-5	2-D
TP504		gemini_dock-6	3-D	TP77		gemini_dock-5	3-D
TP505		gemini_dock-5	2-D	TP78		gemini_dock-5	3-D
TP506		gemini_dock-5	2-D	TP79		gemini_dock-5	3-D
TP507		gemini_dock-5	3-D	TP80		gemini_dock-5	3-D
TP508		gemini_dock-5	3-D	TP81		gemini_dock-8	2-D
TP509		gemini_dock-5	2-D	TP82		gemini_dock-8	2-D
TP51		gemini_dock-10	3-D	TP83		gemini_dock-8	2-D
TP510		gemini_dock-5	2-D	TP84		gemini_dock-8	2-D
TP511		gemini_dock-4	1-D	TP85		gemini_dock-8	2-D
TP512		gemini_dock-4	2-D	TP86		gemini_dock-8	1-D
TP513		gemini_dock-8	2-D	TP87		gemini_dock-10	4-D
TP514		gemini_dock-6	2-D	TP88		gemini_dock-10	4-C
TP515		gemini_dock-10	4-D	TP89		gemini_dock-10	4-D
TP516		gemini_dock-8	1-D	TP90		gemini_dock-10	3-C
TP517		gemini_dock-8	1-D	TP91		gemini_dock-5	3-D

Ref.	SEC Code	Sheet	Loc.
TP92		gemini_dock-5	2-D
TP93		gemini_dock-5	2-D
TP94		gemini_dock-5	2-D
TP95		gemini_dock-5	2-D
TP96		gemini_dock-5	3-D
TP97		gemini_dock-5	3-D
TP98		gemini_dock-5	3-D
TP99		gemini_dock-5	3-D
U1	1006-001165	gemini_dock-4	3-D
U10	2007-000962	gemini_dock-5	2-D
U11	0904-001579	gemini_dock-5	3-D
U12	0401-000191	gemini_dock-9	3-C
U13	0401-000191	gemini_dock-9	3-C
U14	0801-002462	gemini_dock-6	3-D
U15	1203-002364	gemini_dock-3	1-D
U16	0801-002462	gemini_dock-9	2-A

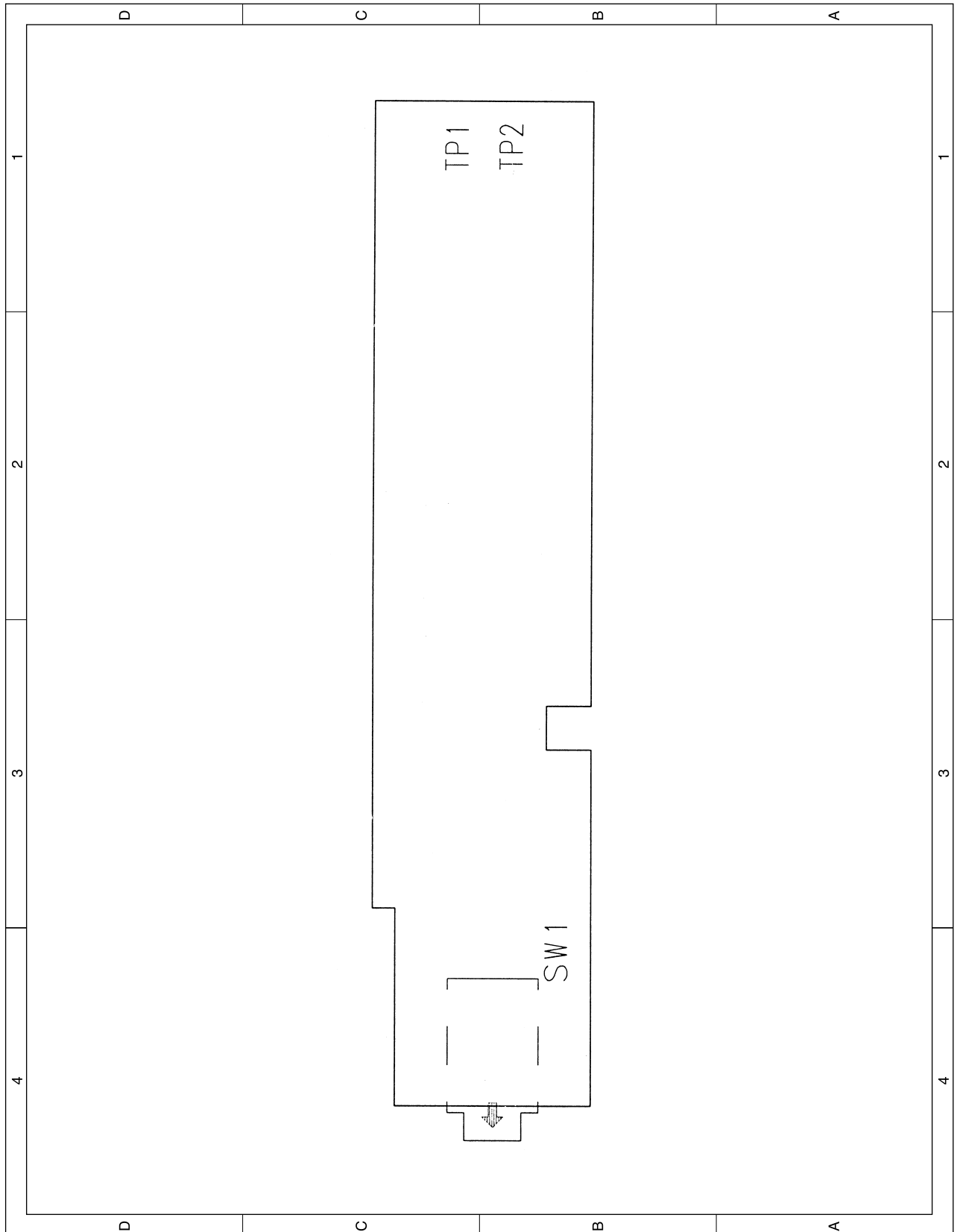
Ref.	SEC Code	Sheet	Loc.
U17	0801-002462	gemini_dock-3	1-D
U2	1201-000166	gemini_dock-3	1-D
U3	0505-000275	gemini_dock-3	1-D
U4	0801-002462	gemini_dock-6	1-D
U44			3-A
U5	1201-001559	gemini_dock-8	2-D
U6	1201-001143	gemini_dock-8	2-D
U7	1203-001472	gemini_dock-10	4-D
U8-1	0904-001578	gemini_dock-6	4-D
U8-2	0904-001578	gemini_dock-6	2-D
U9	1203-001964	gemini_dock-10	4-C
Y1	2801-003898	gemini_dock-5	3-D
ZD1-1	0406-001005	gemini_dock-7	1-B
ZD2-1	0406-001005	gemini_dock-7	1-B
ZD2-2	0406-001005	gemini_dock-7	1-B

8-3-5 Undock S/W Board

8-3-5-1 Schematic Diagrams



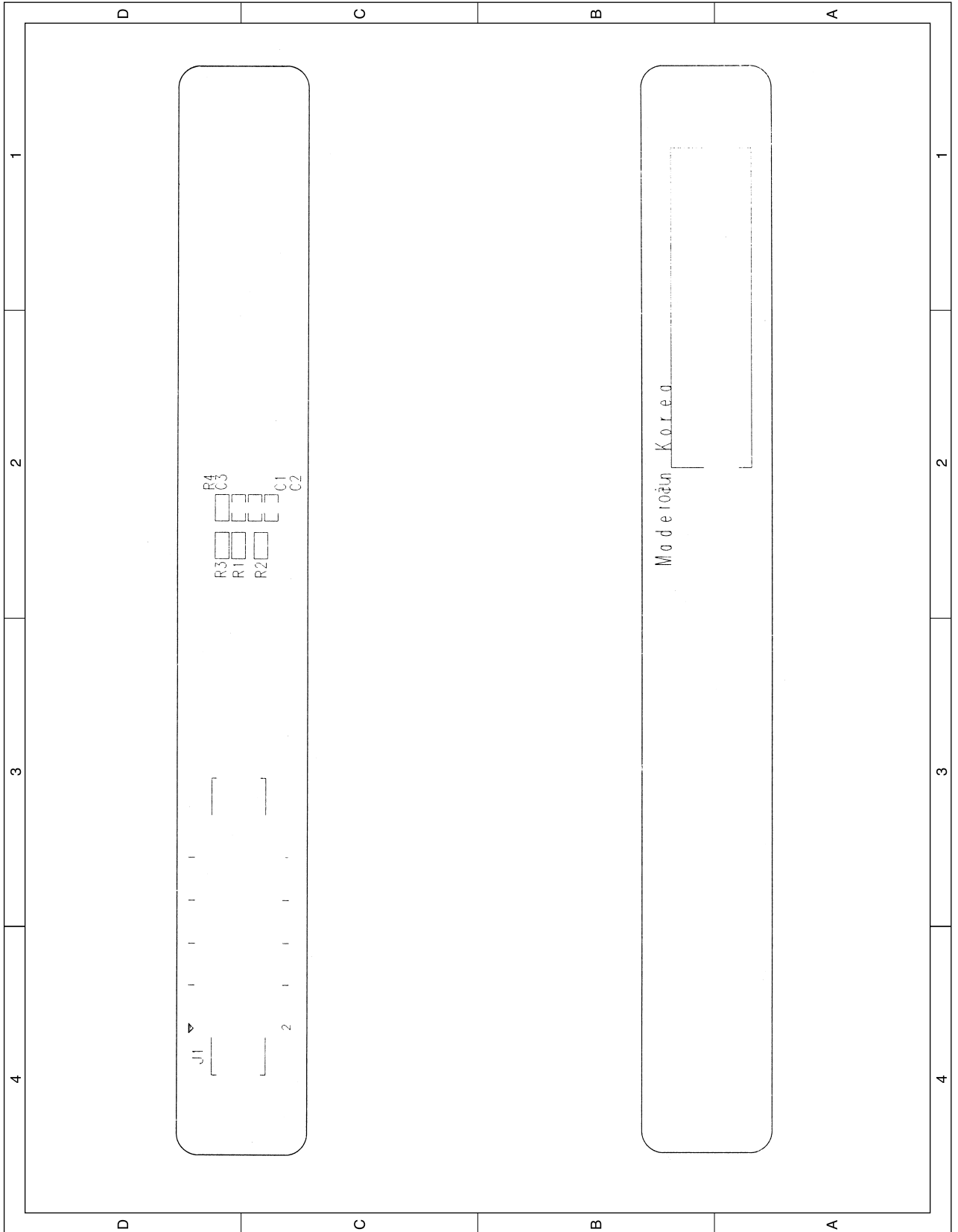
8-3-5-2 PCB



8-3-5-3 Undock S/W Part List

Ref.	SEC Code	Description and Specification	Q'TY
SW1	3404-001072	SWITCH-TACT;12V,50mA,220gf,7.4x4.6x1.8mm,S	1

8-3-6-2 PCB

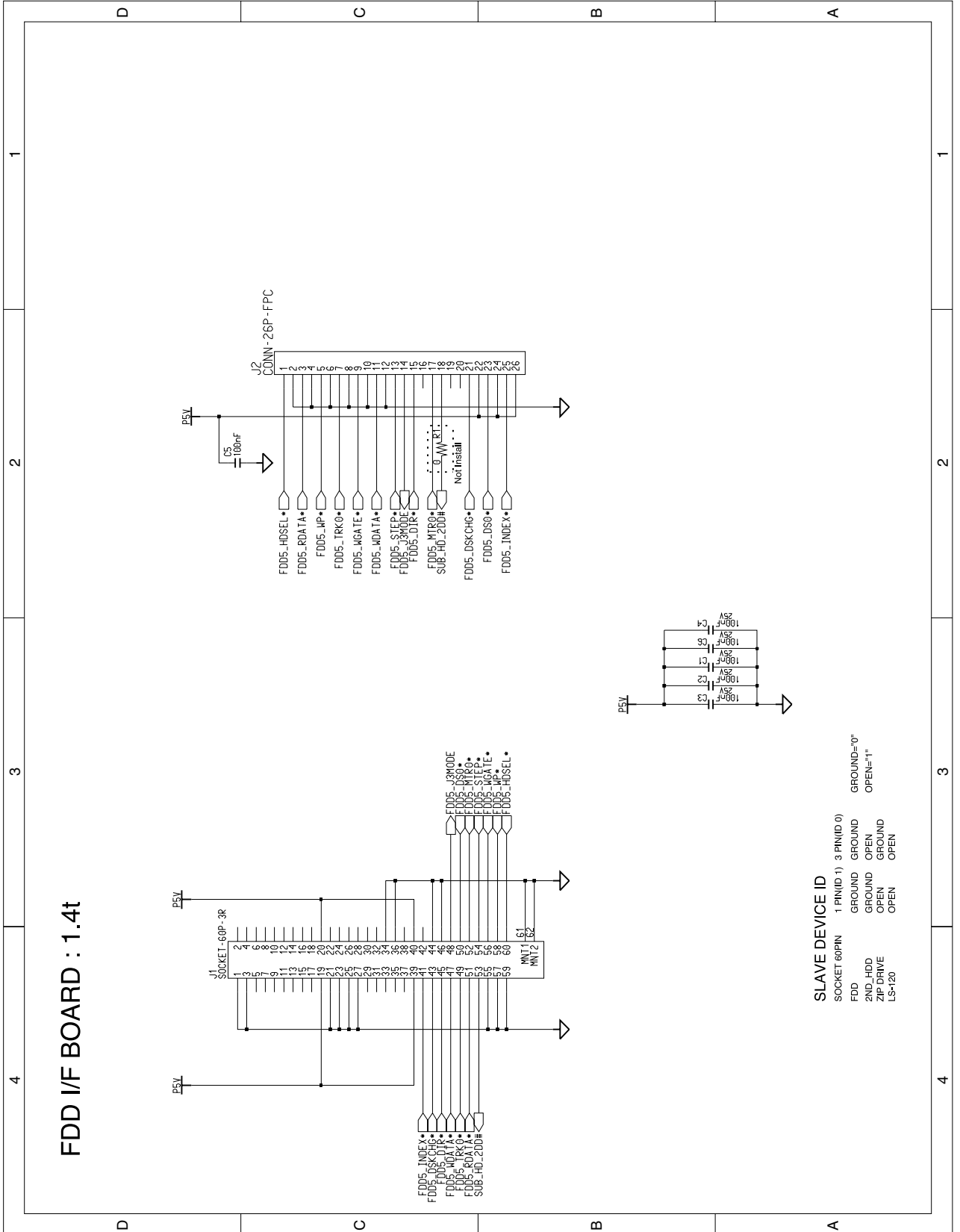


8-3-6-3 CD/CD-RW/DVD/DVD COMBO I/F Part List

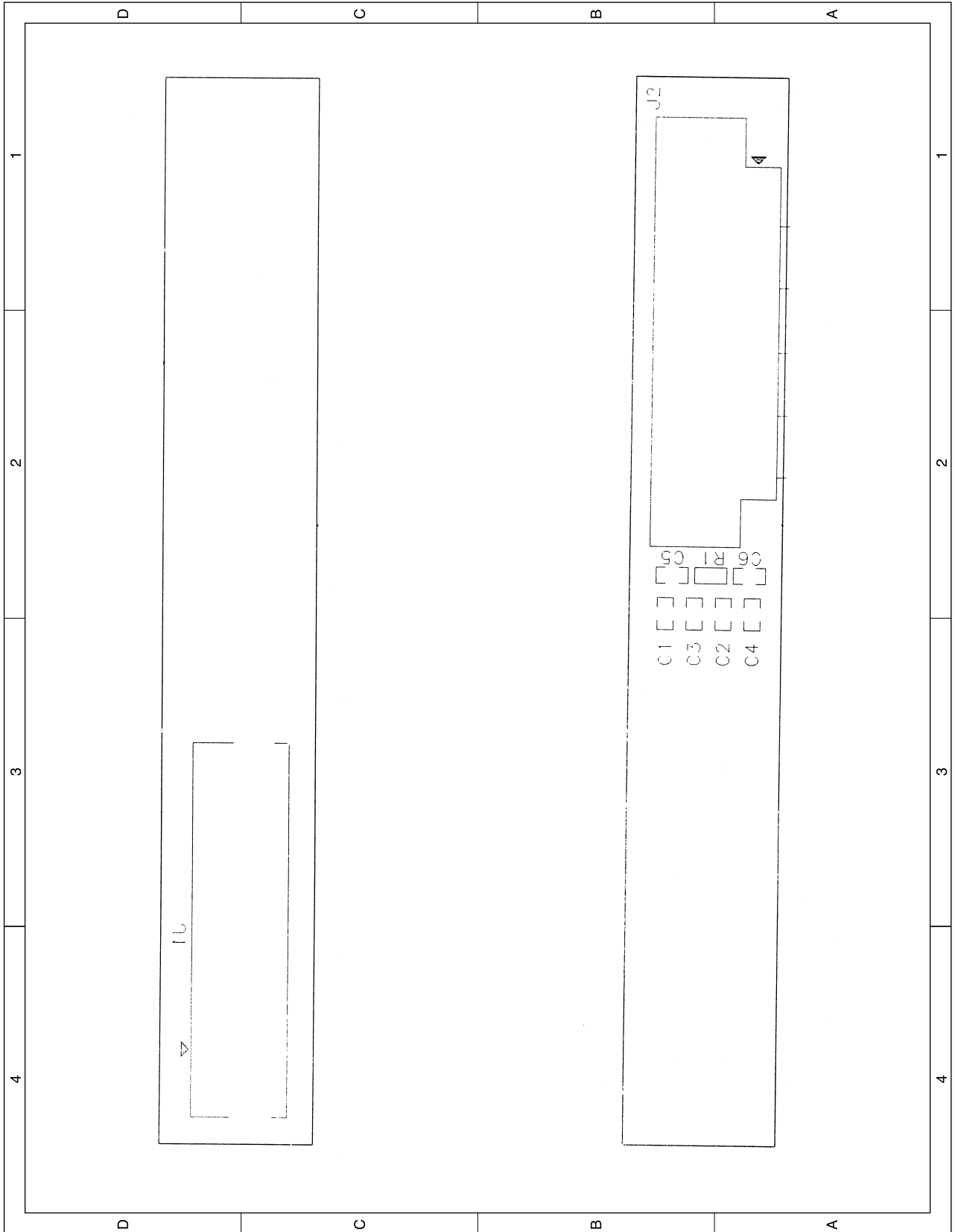
Ref.	SEC Code	Description and Specification	Q'TY
R1	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	3
R3	2007-000070		
R4	2007-000070		
R2	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	1
C1	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	3
C2	2203-000189		
C3	2203-000189		
J1	3710-001152	CONNECTOR-SOCKET;50P,2R,0.8mm,SMD-S,AUF	1
J501	3710-001581	CONNECTOR-SOCKET;60P,3R,1mm,STRAIGHT,AU30U	1

8-3-7 FDD I/F Board

8-3-7-1 Schematic Diagrams



8-3-7-2 PCB



8-3-7-3 FDD I/F(SEC) Part List

Ref.	SEC Code	Description and Specification	Q'TY
C1	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	6
C2	2203-000189		
C3	2203-000189		
C4	2203-000189		
C5	2203-000189		
C6	2203-000189		
J2	3708-001056	CONNECTOR-FPC/FC/PIC;26P,1.0mm,ANGLE,SN	1
J1	3710-001581	CONNECTOR-SOCKET;60P,3R,1mm,STRAIGHT,AU30U	1