S/M No.: TSP110AEF0



# **Service Manual**

Model : DSP-4210GM CHASSIS : SP-110



# DAEWOO ELECTRONICS CO., LTD

# TABLE OF CONTENTS

1. Safety precautions	2
2. Product specification	4
3. Block diagram	6
4. Adjustment (How to use service remote controller)	7
5. When changing the new board	9
6. Trouble shooting	10
7. Assembly list	30
8. Circuit diagram	31
9. Exploded view	35

#### **1. SAFETY & PRECAUTIONS**

#### SAFETY CHECK AFTER SERVING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screw, parts and wires have been returned to original positions. Afterwards, perform the following tests and conform the specified values in order to verify compliance with safety standards.

1-1. Insulation resistance test

Confirm the specified insulation resistance between power cord plug prong and externally exposed parts of the set (video and audio input terminals, speaker out terminals etc) is greater than values given in table 1 below.

1-2. Dielectric strengthen test

Confirm specified dielectric strengthen between power cord plug prongs and exposed accessible parts of the set (video and audio input terminals, speaker out, etc) is greater than values given table 1 below.



1-3. Clearance distance

When replacing primary circuit component, confirm specified clearance distance (d), (d') between soldered terminals (see Fig1), and between terminals and surrounding metallic parts. See table 1 below.

AC Line Voltage	Region Insulation Resistance		Dielectric Strength	Clearance Distance(d),(d')
100V	Japan	$\geq 1M\Omega / 500V DC$	1kV AC 1min.	≧ 3
110 to 130V	USA &Canada	-	900VAC 1min	≧ 3.2
110 to 130V 200 to 240V	Europe Australia Latin America	≧10MΩ/500V DC	4kV AC 1min.	$ \stackrel{\geq}{=} 6(d) \\ \stackrel{\otimes}{=} 8(d) \\ (a : Power cord) $

Rating for selected areas (table 1)

\* Class model only

#### NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular.

1-4. Leakage current test

Confirm specified or lower leakage current between

B(earth ground, power cord plug prongs) and externally

exposed accessible parts (video and audio input termin-

als, speaker out, etc.)

Exposed accessible part Ac voltage (high impedance) • Earth Ground power cord plug prongs

Measuring method:(Power ON) Insert load Z between

 $B(earth\ ground,\ power\ cord\ plug\ prongs)$  and exposed

accessible parts. Use AC voltmeter to measure AC voltage across both terminals of load Z. See Fig.2 and following table.

Leakage current ratings for selected are as

Ac Line Voltage	Region	Load Z	Leakage Current( i)	Clearance Distance(d),(d')
100V	Japan	οο 1 <u>kΩ</u>	$i \leq 1$ mArms.	Exposed accessible parts
110 to 130V	USA & Can- ada	<sup>~</sup> 1 kΩ <sup>15μF</sup>	$i \leq 0.5$ mArms.	Exposed accessible parts
110 to 130V	Europe	0vn-0 2 kΩ	$i \leq 0.7$ mA peak $i \leq 2$ mAdc	Antenna earth terminals
200 to 240V	Australia	o 50kΩ	$i \leq 0.7$ mA peak $i \leq 1$ mAdc	Other terminals

#### NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

# 2. PRODUCT SPECIFICATION

ITEM	SPECIFICATION	REMARK
1. GENERAL		
1-1. MODEL NO	DSP-4210GM	
1-2. CHASSIS NO	SP-110	
1-3. SCREEN SIZE	42" (16:9)	
1-4. COUNTRY	WORLD WIDE	
1-5. RESOLUTION	853(W) X 480(H)	
1-6. REMOCON TRANSMITTER TYPE	R-V2A(ENGLISH), R-V2AK(KOREAN)	
1-7. SAFETY STANDARD	UL, CSA, CE, KE	
2. MECHANICAL		
2-1. DIMENSION		
1) WITHOUT STAND	W X H X D = 1055 X 652 X 85	
2) WITH STAND	W X H X D = 1055 X 730 X 85	
3) BOX	W X H X D = 1190 X 870 X 480	
2-2. WEIGHT		
1) WITHOUT STAND	33kg	
2) WITH STAND	39kg	
3. ELECTRICAL & OPTICAL		
3-1. COMPOSITE VIDEO INPUT SIGNAL	NTSC,PAL,SECAM,PAL-M/N,NTSC4.43	
	1 INPUT ( $75\Omega$ , 1Vp-p)	
3-2. Y/C INPUT SIGNAL	50/60Hz, Super Jack 1 Input( $75 \Omega$ ,1Vp-p )	
2 2 DTV/DVD INDUT SIGNAL	V Dh/Ch Dr/Cr 1 Input	
5-5. DI V/DVD INFUT SIONAL	$(75 \Omega, 1)$ ( $75 \Omega, 1$ )	
	* DTV Resolution Mode (Y Ph. Pr.):	
	1920X1080i 1280X720n	
	640X480p	
	* DVD (Y.Cb.Cr) : 50/60Hz	
3-4. PC SIGNAL	R.G.B.H.V 15Pin D-sub jack 1 Input	
	(75Ω,1Vp-p)	
	* Resolution Mode : VGA - UXGA	
3-5. SOUND INPUT SINAL	Composite, Y/C : L/R Phone Jack 1Pair	
	DTV/DVD : L/R Phone Jack 1Pair	
	PC : L/R Phone Jack 1Pair	
	* Input Impedance 47 k $\Omega \uparrow$	

[DSP-4210GM]

ITEM	SPECIFICATION	REMARK
3-6. Optical Chracteristics		
1) Display Resolution	16:9 Wide 853 X 480	
2) Peak Luminance	$160 cd/m^2$	
3) Contrast Ratio	500:1	
4) Color Temperature	8000° K	
3-7. Scaling	<scaling mode=""></scaling>	
	PC, DTV : Fill to Aspect Ratio,	
	Fill to Screen	
	DVD, VIDEO : Normal, Wide, Panaroma,	
	Letter Box, Letter Box with Sub Title	
	<scaling adjust=""></scaling>	
	PC,DTV (User Control) : H-Size, V-Size	
	H-Position, V-Position	l
3-8. Zoom	Zoom <sup>+</sup> , 4Direction Paning Avaiable	
3-9. PIP	Video Window in DTV/PC Picture	
	PIP Size, Position Changeable	
3-10.OSD	8Language	
	KOREAN,ENGLISH,NETHERLAND,	
	FRENCH,SPANISH,GERMAN,	
	PORTUGUESE,ITALIAN	
3-11. AC Power	AC 90V-264V, 50/60Hz	
3-12. Power Consumption	350 WATTS	
3-13. Sound Output	L : 8Watts, R : 8Watts	
3-14. LAN Interface	Option	
3-15. Settop Box Interface	Option	
3-16. Others	Freeze Picture, Video Rotation	
4. USER CONTROL & ACCESSORIES		
4-1.CONTROL		
1) SET	AC POWER, MENU, INPUT SELECT, UP,	
	DOWN, LEFT, RIGHT	
2) REMOCON TRANSMITTER	INPUT SELECT, POWER, RECALL, ZOOM-,	
	ZOOM+,MENU,UP,DOWN,LEFT,RIGHT,	
	PICTURE MODE, FREEZE, SCREEN MODE,	,
	MUTE	
4-2. ACCESSORIES	1) REMOCON : R-V2A, R-V2AK	
	2) BATTERY : "AAA" 2EA	
	3) INSTRUCTION MANUAL	
	4) STAND (OPTION)	
	5) WALL HANGER (OPTION)	
	6) SPEAKER UNIT 2ASS'Y (OPTION)	

#### **3. BLOCK DIAGRAM**



[ DSP-4210GM BLOCK DIAGRAM [ MP1 / 2000. 12. 28 ]

#### 4. Adjustment

4-1. How to confirm the origianl data of VIDEO PCB

- (1) Input selection : You select video mode
- (2) You confirm the original data of user control
  - Brightness : 36 ( :20 in case of DTV/PC input mode )
  - Contrast : 60
  - Sharpness : 2
  - Colour : 32
  - Tint : 0 ( Center )
- (3) You confirm the original data of SERVICE MODE (PW364)
  - (See 4-4)
  - Sub-Brightness : 60
  - Sub-Contrast : 70
  - R-Bias : 63
  - G-Bias : 63
  - B-Bias : 68
  - R-Gain : 53
  - G-Gain : 57
  - B-Gain : 76
- 4-2. How to adjust POWER PCB
  - (1) Devices for measurement : Digital volt meter, Pattern generator
  - (2) Conditions : You adjust as follows after assembling set and inputting WHITE PATTERN.
    - 1) V<sub>SUS</sub>(Sustain voltage) : Voltage sustaining electronic discharge
      - TP : P12 Adjustment control : RV600 Standard voltage : 166V
    - 2) V<sub>SCAN</sub>(Scan voltage) : Scan voltage when recording DATA TP : PA9 #6 PIN of Y PCB Adjustment control : RV14 Standard voltage : -160V
    - 3) V<sub>ADD</sub>(ADDRESS voltage) : Voltage recording DATA TP : P14 Adjustment control : VRS1 Standard voltage : 80V
- 4-3. X/Y PCB adjustment
  - (1) Devices for measurement : Digital volt meter, Pattern generator
  - (2) Previous adjustment voltage : You adjust as follows after assembling set and inputting BLUE PATTERN.

1) V <sub>SHELF</sub> (SHELF voltage) : X-electrode sustain voltage when recording DATA
TP : RCU25
Adjustment control : RU5
Standard voltage : +60V
2) VvH(SCAN VH voltage) : VH voltage of SCAN IC when scanning
TP : RY7 voltage each side
Adjustment control : RY6
Standard voltage : -70V
(3) The final operation adjustment
1) Input a monochrome pattern of R,G,B. And then you check if there are abnormal OFF-state
pixels (which must be in ON-state but are in OFF-state).

If any, increase  $V_{SUS}$  voltage slowly from 166V to remove abnormal OFF state pixels in that pattern.

- 2) If there is no abnormal OFF-state pixel in monochrome pattern of R,G,B, make sure if there is abnormal OFF-state in Magenta, Cyan, Yellow or not. If any, increase V<sub>SUS</sub> slowly in that pattern.
- 3) Increase  $V_{SUS}$ , which is set as above, by 1V.
- 4) Make sure if there are abnormal ON-state pixels(which must be on OFF-state but are in ON-state, for example, R or G) in Blue pattern after aging Blue pattern 5 minutes. If any, set V<sub>SCAN</sub> slowly from 160V to 150V and decrease V<sub>SHELF</sub> slowly to remove wrong electronic discharge.
- 4-4. White balance adjustment
  - (1) Feed grey scale signal to video input terminal.
  - (2) Confirm the original data of user control (See 4-1).
  - (3) Press Remote controller in order starting with UP => MUTE => RECALL => MUTE BUTTON to access Service adjustment mode and select PW364. And then confirm the original data of the Service mode PW364 register. (See 4-1).
  - (4) Make sure you can't recognize any grey scale errors in the form of colour tint in this darker bands.
  - (5) You attach the sensor of a White balance meter to the white part on the upper end of this grey scale pattern.
  - (6) Set White balance changing R,G,B-Gain.
    - You make sure that R,G,B-Gain must be set within the limit of 63±20. If it is over the limit, it is N.G.
    - How to adjust temperature of colour  $X = 0.290 \pm 0.01$ ,  $Y = 0.310 \pm 0.01$ 
      - Temperature of colour : 8,300° K
  - (7) You can set Luminance level changing Sub-contrast.
  - If the set data of Sub-contrast is over the limit of 80, it is N.G.
  - (8) Press Menu button, to escape from Service mode.

#### 5. When fitting a new board

- 5-1. Video
  - (1) Check the related adjustments are correctly set as per previous page.

#### 5-2. X-Sustain

- (1) Set the  $V_{\mbox{\scriptsize SHELF}}$  voltage according to the list of adjustments.
- (2) The data of adjustment voltage is on the label, which is attached on the metal part under Y-Sustain board.

#### 5-3. Y-Sustain

- (1) Set the Vvh voltage according to the list of adjustments.
- (2) The data of adjustment voltage is on label, which is attached on the metal part under Y-Sustain board.
- 5-4. Power module
  - (1) You set each voltage according to the list of adjustments.
  - (2) The data of adjustment voltage is on the label, which is attached on the metal part under Y-Sustain board.

# 6. Trouble shooting

6-1. Audio/video

- 6-2. Digital
- 6-3. X-SUSTAIN
- 6-4. Y-SUSTAIN
- 6-5. SCAN Board
- 6-6. DATA H/L, Connection(LU,CU,RU,LD,CD,RD)
- 6-7. Power

#### 6-1. Audio/Video



#### \* IMAGE PROCESSOR PART BLOCK DIAGRAM







#### NO DTV screen (1080I, 720P, 480P)

#### **NO PC screen**



**NO Sound** 







#### **NO Key operation**



6-2. DIGITAL

Checking Order for normal operation of Digital Board and Check Points

- ( \* Measure RMS voltage with a multi-meter, refer to the attached picture for position of check points )
- 1. After make sure that the set turns off, turn off the High Voltage ON/OFF Switch of the Power Board and then turn on the set
- 2. Confirm whether there is an input of 5V, 3.3V into Power Connector (PA5).
  - 5V input (pin No.1,2) : If 4.5V ~ 5.2V, O.K.
  - 3.3V input (pin No.7,8) : If 3.0V ~ 3.5V, O.K.
- 3. Confirm whether Power 2.5V,  $3.3V_1$ ,  $3.3V_2$ ,  $3V_3$ ,  $5V_1$ ,  $5V_2$ 
  - 2.5V : If 2.2V ~ 2.7V, O.K.
  - 3.3V : If 3.0V ~ 3.5V, O.K.
  - 5V : If 4.5V ~ 5.2V, O,K.
- 4. Confirm Reset and V\_MUTE
  - Reset : If 3.0V ~ 3.5V, O.K.
  - V\_MUTE :If 3.0V ~ 3.5V, O.K.
- 5. Confirm CONF\_DONE ( ID102, ID103 )
- CONF\_DONE : If 3.0V ~ 3.5V, O.K.



#### 6-3. X-SUSTAIN BOARD

- 1. Separate PA7 and PA114 connector
- 2. Check the remaining electrical voltage of PA7
  - (1) Check the Voltage of Terminal 170V : If maintained beyond 10 volt, discharge (below 5 volt) with resistance of beyond 1K ohm 5 Watt
- 3. Confirm the value of series and parallel resistance of RU10//RU13-RU11//RU14-RU12//RU15
  - (1) Each value of resistance : 6.8 ohm 5 Watt
  - (2) The total value of resistance : 10.2 +/- 0.5 ohm
  - (3) In case of wrong value of resistance, replace (open) board and confirm each connector : the state of insertion ( installation )
- 4. In case of normal value of resistance, measure the value as following table1.
  - (1) Use a Diode Tester
  - (2) If abnormal part is found, replace the board
  - (3) In case of normal state, Inspect connectors and other boards

Table 1. PA7 The value of Diode Tester of each terminal

\* + : red, - : black

	NAME	DIODE	MEASURE	DIODE	MEASURE
		TESTER		TESTER	
1	170V	+	About 5 sec.	-	0.49
	GND	-	Later,	+	
			Open		
2	15V	+	About 3 sec.	-	0.47
	GND	-	Later,	+	1
			Open beyond 2V		
3	CU1(5V)	+	Beyond 1.43	-	0.48
	GND	_		+	

#### Table 2. PA114 The value of Diode Tester of each terminal \* + : red, - : black

The configuration of terminal ( top view, components side )



- 21 -

DIODE TESTER		MEASURE	DIODE TESTER		MEASURE
-	+		+	-	
GND	А	0.6	GND	А	0.5
	В	0.6		В	0.5
	С	0.6		С	0.5
	D	0.6		D	0.5
	Е	0.6		Е	0.5
	F	0.6		F	0.5
	G	0.6		G	0.5
	Н	0.6		Н	0.5

## Table 3. The value of Diode Tester of each Semiconductor

\* + : red, - : black

		NAME	DIODE	MEASURE	DIODE	MEASURE
			TESTER		TESTER	
1	QU5/QU6	D	+	ABOUT 5	-	0.48
		S	-	SEC. LATER,	+	
				OPEN		
2	QU7/QU8	D	+	Open	-	0.48
		S	-		+	
3	QU17/QU18	D	+	Open	-	0.45
		S			+	
4	QU15/QU16	D	+	Open	-	0.45
		S	-		+	
5	QU23~QU26	D	+	Open	-	0.4
		S	-		+	
6	QU19~QU22	D	+	Open	-	0.4
		S	-		+	
7	QU12	D	+	Open		0.49
		S			+	
8	QU11	D	+	Beyond 2.3	-	0.49
		S			+	
9	QU9	D	+	ABOUT 5	-	0.5
		S	-	SEC.LATER,	+	
				OPEN		
10	QU4	D	+	Open	-	0.5
		S	-		+	
11	QU13/QU14	D	+	Open	-	0.48
		S	-		+	

#### 6-3. Y-SUSTAIN BOARD

- 1. Separate PA9, PA111 connector
- 2. Confirm the remaining electrical Voltage of PA9
  - (1) Confirm the Voltage of Terminal 170V : If maintained beyond 10 volt, discharge(below 5 volt) with resistance of beyond 1K ohm 5 Watt
  - (2) Confirm the Voltage of Terminal -155V : If maintained beyond -10 volt, discharge(below -5 volt) with resistance of beyond 1K ohm 5Watt
- 3. Confirm the resistance of RY2 (470 ohm 5Watt)
- (1) In case of wrong value, replace board and confirm each connector
- 4. In case of normal value of resistance, measure the value as following Table 1.
  - (1) Use a Diode Tester
  - (2) If abnormal part is found, replace the board
  - (3) In case of normal state, Inspect connectors and other boards

Table 1. PA9 The value of Diode Tester of each terminal

\* + : red, - : black

	NAME	DIODE	MEASURE	DIODE	MEASURE
		TESTER		TESTER	
1	170V	+	About 3 Sec. Later,	-	Beyond 0.8
	GND	-	Open	+	
2	-155V	+	Beyond 0.7	-	Open
	GND	-		+	
3	ON/OFF	+	Open	-	Beyond 2.4
	GND	-		+	
4	15V	+	Beyon 0.7	-	About 5 Sec. Later, beyond 0.4
	GND	-		+	

Table 2. PA111 The value of Diode Tester of each terminal

\* + : red, -: black

The configuration of terminal (top view, components side)



DIODE	DIODE TESTER		DIODE	DIODE TESTER	
-	+		+	-	
GND	А	1.2	GND	А	0.5
	В	0.6		В	0.5
	С	0.6		С	0.5
	D	0.6		D	0.5
	Е	1.2		E	0.5
	F	1.2		F	0.5
	G	0.6		G	0.5
	Н	0.6		Н	0.5
	Ι	0.6		Ι	0.5
	J	0.6		J	0.5
	K	1.2		K	0.5
	L	0.6		L	0.5
	M	0.6		М	0.5
	Р	1.2		Р	0.5

Table 3. The value of Diode Tester of each Semiconductor \* + : red, - : black

		NAME	DIODE	MEASURE	DIODE	MEASURE
			TEST		TEST	
1	QY5~QY8	D	+	ABOUT 3	-	0.4
		S	-	SEC. LATER,	+	
				OPEN		
2	QY9~QY12	D	+	Open	-	0.4
		S	-		+	
3	QY1~QY2	D	+	Open	-	0.4
		S	-		+	1
4	QY3~QY4	D	+	Open	-	0.4
		S	-		+	
5	QY25~QY28	D	+	Open	-	0.4
		S	-		+	
6	QY20~QY23	D	+	Open	-	0.4
		S	-		+	
7	QY15~QY16	D	+	Open	-	0.4
		S	-		+	
8	QY19	D	+	Open	-	0.4
		S	-		+	
9	QY14	D	+	Open	-	0.4
		S	-		+	
10	QY13	D	+	Beyond 1	-	Open
		S	_		+	
11	QY2	D	+	Open	-	0.4
		S	-		+	

### 6-5. SCAN BOARD

- 1. Confirm the DIOED TESTER, PCB separately
- 2. The configuration
  - (1) The Voltage Terminal of Scan (top view, components side)



	DIODE TESTER	MEASURE	DIODE TESTER	MEASURE
А	+	Beyond 0.6	-	Open
В	-		+	

6-6. DATA H/L, CONNECTION(RU,CU,LU,RD,CD,LD)

Confirm the upper part and the lower part
Separate PA10 and PA11
Confirm DIODE TESTER

Separate P112

Confirm LU and two DATA H boards

Separate PA113

Confirm CU and DATA H board
Confirm RU and two DATA H boards

Separate P115

Confirm LD and two DATA L boards

#### Table 1. The value of Diode Tester of each terminal

\* + : red, - : black

	NAME	DIODE TESTER	MEASURE	DIODE TESTER	MEASURE
1	Vadd	+	Open	-	0.6
	GND	-		+	
2	5V	+	Beyond	-	0.5
	GND	-	1.3	+	







# 7. Assembly List

NO	DOD A COVY NAME	WORKING PROCESS	ASSEMBLY
NU	PCB ASS Y NAME	ASS'Y NAME	CODE
1	ACCESSORY AS		PEACPWD011
2	PACKING AS		PEPKCPD011
3	CABINET AS		PECACAD011
4	MASK FRONT AS		PEFMSJD011
5	VIDEO PCB AS		
6		PCB VIDEO MANUAL A	PEVDMSD011
7		PCB VIDEO CHIP B AS	PEVDJ2D011
8		PCB VIDEO CHIP A AS	PEVDJ1D011
9	DIGITAL PCB AS		
10		PCB DIGITAL MANUAL	PEDGMSD011
11		PCB DIITAL CHIP B	PEDGJ2D011
12		PCB DIGITAL CHIP A A	PEDGJ1D011
13	DATA_H PCB AS	PCB DATA H AS	PED1MSD011
14		PCB DATA H CHIP A A	PED1J1D011
15	DATA_L PCB AS		
16		PCB DATA L MANUAL	PED2MSD011
17		PCB DATA L CHIP A A	PED2J1D011
18	SCAN PCB AS		
19		PCB SCAN MANUAL A	PES1MSD011
20		PCB SCAN CHIP A AS	PESIJID011
21	X-SUS PCB AS		
22		PCB X-SUS MANUAL A	PEXSMSD011
23		PCB X-SUS RHU AS	PEXSJ0D011
24		PCB X-SUS M-10 AS	PEXSJBD011
25		PCB X-SUS RADIAL AS	PEXSJRD011
26	V CLIC DCD A C	PCB X-SUS CHIP A AS	PEASJIDUII
27	I-SUS PCB AS		
28		PCB 1-SUS MANUAL A	PEYSIOD011
29		PCB I-SUS KHU AS	PEISJUDUII DEVSIDD011
21		PCB I-SUS M-IUAS	PEISJBD011
22		PCD 1-SUS KADIAL AS	PEISKD011 DEVS11D011
32		PCD 1-SUS CHIP A AS	PEISJIDUII
21	AUDIO FUD AS	PCB AUDIO MANUAL A	
34			
35		PCB AUDIO AXIAL AS	PEAUIAD011
30	IACK PCB AS	I CD AUDIO AXIAL AS	T LAUJADUIT
38	JACKICDAS	PCB IACK MANUAL AS	PEIAMSD011
30	XSA PCR AS	I CD JACK WANUAL AS	
40	ADA I UD AD	PCB XSA MANUAL AS	PFXAMSD011
40	CONN LINION	I CD ASA MANUAL AS	
	PCR AS	PCB LINION CHIP & AS	PEUNI1D011
12	I CD AS	PCB LINION AS	PEUNSWD011
		PCB RIGHT-DO MANU	PFRWMSD011
15		PCB RIGHT_DO A AS	
1+2			

#### 8. Block Diagram



8-2. Digital



#### 8-3. Y-Sustain

#### Y-Sustain Block Diagram



#### Scan PCB

#### X-Sustain Block Diagram







NOL	FYFRI COICE	PART NAME	D'IV	MATERIAL	REMARK
83	465/600/200	GLOTH BL40	2	EVA 149	
82	445760,3400	INSTALLATION FROMEN INSTALLATION TERMINAL	1	PET 0.51	
82	4855415800	SPEC PLATE	1	150 APT PLE FILM	
79	70085014011	STATE IV NACHINE	60	WAS 3X10 ME21	
ŝ	FE, MIGOOI	Poblija Arak As	1		
77	FELUNGOOT	RSS ROVER AS	1		
78	HEQUISOU	PLA CE IEP UOVIN 25	1		
74	FEI DURINDI	RCB LEFT DOWN AS	1		
73	PELMERNI	RSE LEFT UP AS	1		
72	FERINGOOT	RCB PIGHT COINT +S	1		
71	FERJA/6001	PCB MGHT UP //s	1		
20	FD\$16001	PCE Y-SUS /S			
8	FE CON STATI	RCB DIGITAL AS	1		-
ŧ7	PE/045001	PCB VOID 45	1		-
88	405/902/00	POBLILAN AS	1		
5	FE-10-5001	REE AUDIO AS	1		
64 83	PERUNASION	RCBIXSA AS	2		
3	PERINGINI PERINGINI	ROB DATAN AS	5		
81	PEODISOD	ROB D414L 4S	5		
63	4957500800	COVER STAND HOLE	2	HIP5	
50	4852100500	CO/ER BACI	1	45052 11 2	
52	4057100200	SHELDRON R	4	6.0(35P/300 Cu+N	
58	4857100100	SHELDRON C	1	المراجع Central Centri 720(15F)370 (15F)	+
55	4832600300	ALATE TERMINAL	1	450372 t1_0	+
54	4043001302	BP-CIET SUPPOPT	2	SECC 12.0	
£	4855200500	PLATE HEAT	5	A1050 tl.0	
52	49220000020	PANEL GLASS	1	LEFP-421054	
2 5	495/900900	TAPE GLASS B	4	VHENESU CI I	
49	4957900700	THEP IL SHEET	3	9692FR 260/500/01.1	
49	7082601-011	STAFE IN SPERING MACHINE	4	BIT MEXT2 NE2N	
47	7003401011	SCREN HACHINE	32	BIT MEXIQ MEZH	
48	4058601900	ROST CUDE RVET	40	03804	
45	4858504700	HOSIGUDEC	2	C3604	
4	4958500500	ROST CHINE A	4	C3604	
42	4956200402	ROST POE D	12	C3604	
41	4956500.000	ROST PODIC	4	C3604	
40	4959501206	FOST FOE B	4	0.3804	
38	4856500 100	ROST PODE A	26	C3604	
30	4457500700	HOLDER WEDLATION &	10	HIRS	-
36	49536007080	FRAME BLIPFORT	2	ADC-10	
35	465/900600	NBILATION DATA	4	PIT 10.1	
34	4953600 600	FRAME BACK B	2	46081 12.0	
33	4853800900	HAVINE BACK A	4	A6061 11.2	
31	4952903400	ROUTE CALL	1		-
30	7173300.911	SOPEN TAPPITE	3	THE BIN 348 MEZH	-
28	4657002100	PCB LED	1		
28	4952201400	BRACKET POWER S/W	1	SECC III.8	
77	4653600400	HEVE SILE	2	A5052 11.5	
15	4420400.300	TIGTH FLATK		∼cabe tian Ki5	+
24	4924400300	RUBBER FRAME B	4	CPED LICE EK	+
23	4953600200	NHVIE SIDE U	1	A5052 11.5	
22	495/200700	SHELD FLTER	14	SUSSOICSP K1.1	
21	4922800100	RLIER	1	PDF-69H0I	
20	4924403300	HUBBLE HUEF LIKEPT HUT HA	10	C190 130 BI	+
18	495-900570	BUTTON CH	1	-15	+
7	4853500500	HLD GUIDE CH.	1	HIPS	1
16	4956703309	SPRING POWER 5/V	1	505304/1F9	
15	485570(20)	0600 110	1	PINA	
14	4950500400	DEDA SEKSIP	1	PUNA	
10	4604300400	AUTOR PONCH HID CUDE CO	H	HIPS	+
11	4853600400	HLD GUIDE UR	1	HIPS	1
10	4953604300	HLD CUIDE UL	1	HIPS	
g	4021300100	BRAND NARK	1	AL	
	7041.321000	ANET NAU	8	P4N 3040	1
1 6	/1/8501011	SCHEN TAPTITE	28	112 NAS 4010 MEZN	
5	+904200 100 4955000 000	PLATE VENTILATION	7	A\$052 [L5]	+
4	4952000700	HASK FRONT L	Í	A <b>506</b> 1	1
3	4950000600	HASK FRONT P	1	A <b>BD61</b>	
2	4852000510	HASK FRONT LOVER	1	A <b>SD61</b>	
	1000000000	L MASK FRONT LIDGER	1.1	A BEDART	1