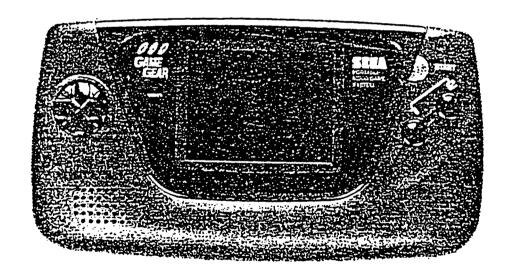
SEGATION SEG

MAINTENANCE MANUAL EUROPE



MAINTENANCE MANUAL

EUROPE

◆ INDEX ◆

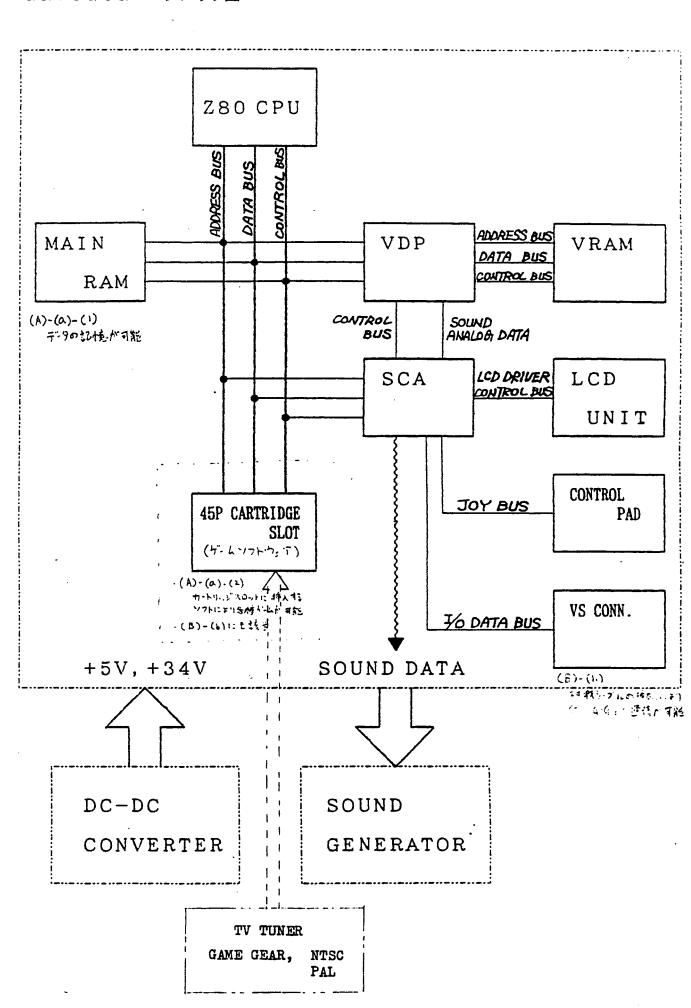
1.	B 1	L 0	CK	DΙ	AG	RAM

- 2. ASSEMBLY DRAWING
- 2-1. GENERAL REFERENCE NUMBER LIST
- 2-2. ASSEMBLY LIST
 1001 BOTTOM CASE ASSEMBLY 1
 1002 BOTTOM CASE ASSEMBLY 2
 1003 MAIN BOARD ASSEMBLY
 1004 BOTTOM CASE ASSEMBLY
- 2-3. PROCEDURE OF DISASSEMBLY AND ASSEMBLY
- 3. SPARE PARTS LIST
- 4. ACCESSORIES LIST
- 5. PCB REPAIR PROCEDURE
- 6. SOFT & HARD CHECK MANUAL

7. PARTS SPECIFICATION IC Z80A TMP84C00AM-6 7 - 1. MAIN BOARD IC1 7-2. MAIN BOARD BOARD IC2 IC CUSTAM VDP 315-5377 IC2 IC CUSTAM VDP 315-5377 IC3 IC CUSTAM SCA 315-5378A 7-3. MAIN BOARD IC4 IC µPD4364G-15L 7-4. MAIN 7-5. MAIN BOARD IC5 IC HM6256BLFP-12 7-6. MAIN BOARD IC6 IC μ PC358G2 7-7. DC-DC CONV. BOARD IC1 IC MB3775FP-G-BND 7-8. SOUND BOARD IC1 IC TDA2822M 8. PARTS LIST OF PCB 8 - 1.ΙC BDGG MAIN EUROPE ΙC 8-2. GG MAIN EUROPE B BDΙC DC-DC CONV. EUEOPE 8 - 3. ВD GG 8 - 4. ΙC GGDC-DC CONV. EUEOPE B BD8 - 5. ΙC BDGG SOUND EUROPE ΙC 8 - 6. GG SOUND EUROPE B BD9. SCHEMATIC DIAGRAM PС 9 - 1. BDGG MAIN EUROPE 9 - 2. PC BD GG MAIN EUROPE SCA B PC DC-DC CONV. EUROPE 9 - 3. ВD GG9 - 4. PC BD GG DC-DC CONV. EUROPE SCA B PС 9 - 5. GG SOUND EUROPE BD9 - 6. PС GG SOUND EUROPE SCA B BD10. MOUNT DIAGRAM 10-1a.ICBDGG MAIN EUROPE Comp Side 10-1b. IC BD EUROPE Sold Side GG MAIN 10-2a. IC BD GG MAIN EUROPE SCA B Comp Side GG MAIN EUROPE SCA B Sold Side 10-2b. IC BD 10-3a.ICDC-DC CONV. EUROPE BD GG 10-3b. IC BD GG DC-DC CONV. EUROPE SCA B 10-4a.ICBD GG SOUND EUROPE 10-4b. IC ΒD GG SOUND EUROPE SCA B

BLOCK DIAGRAM

GameGear ブロック図...



PCB DESIGN SPEC. 11. 11 - 1a. PC BDGG MAIN BOARD COMP SIDE MARK BD11-1b.PС GGMAIN BOARD SOLD SIDE MARK PC BDGGMAIN BOARD 11 - 1c. COMP SIDE LAYER GG11 - 1d. PC BDMAIN BOARD SOLD SIDE LAYER DC-DC11 - 2a. PC BDGG CONV. BOARD COMP SIDE MARK PC BD GG DC-DCCONV. SOLD SIDE MARK 11 - 2b. BOARD PС BDGG DC-DCCONV. COMP SIDE LAYER 11-2c.BOARD DC-DC11 - 2d. PC BDGG CONV. BOARD SOLD SIDE LAYER 11 - 3a. PС ΒD GGSOUND BOARD COMP SIDE MARK SOUND PС BDGG BOARD SOLD SIDE MARK 11 - 3b. PС BDGGSOUND BOARD COMP SIDE LAYER 11 - 3c. BDGGSOUND SIDE 11 - 3d. PС BOARD SOLD LAYER

GAME GEAR FOR EUROPE

GENERAL REFERENCE NUMBER LIST

REF NO. PART NO. DESCRIPTION

001		ASSY TOP CASE GG USA	(1)
	610-5212-01	ASSY TOP CASE GG USA 01	(1)
002		ASSY BOTTOM CASE GG MULTI	(1)
	610-5255-01	ASSY BOTTOM CASE GG MULTI 01	(1)
003	253-6362	CLEAR PLATE GG	(1)
	253-6434	CLEAR PLATE GG INMOLD	(1)
004	253-6363-01	PAD GG 01	(1)
	253-6363-03	PAD GG 03 (CONTACT TYPE)	(1)
005	253-6364	BUTTON 1 GG	1
006	253-6365	BUTTON 2 GG	1
007	253-6366	START BUTTON GG	1
008	253-6368	BATT LID LEFT GG	1
009	253-6369	BATT LID LIGHT GG	1
010	253-6378	POWER KNOB GG	1
011	253-6401	10P CONN COVER GG	1
101	837-7994	ASSY IC BD GG EUROPE	(1)
101	837-7994B	ASSY IC BD GG EUROPE B	(1)
102	837-7997	IC BD GG DC-DC CONV.EUROPE	(1)
102	837-7997B	IC BD GG DC-DC CONV.EUROPE B	(1)
103	837-7998	IC BD GG SOUND EUROPE	(1)
100	837-7998B	IC BD GG SOUND EUROPE B	(1)
	221 10000		(-)

201 029-0069 TAP SCR PH 2.6*10 BLK

204 029-0326 TAP SCR LH-3 2.6*10 BLK

509-5334-01 RUBBER CONTACT GG 4P 01

RUBBER CONTACT GG 1P

301 509-5334 RUBBER CONTACT GG 4P

304 253-6422 BATT. BLADE COVER GG

250-6243 SUPPORT PLATE GG 01

202 012-0312 TAP SCR PH 3*12 203 012-0206 TAP SCR PH 2*6

302 509-5335 RUBBER CONTACT 303 601-6428 LCD CUSHION GG

305

QTY

6

2 10

1

(1)

(1)

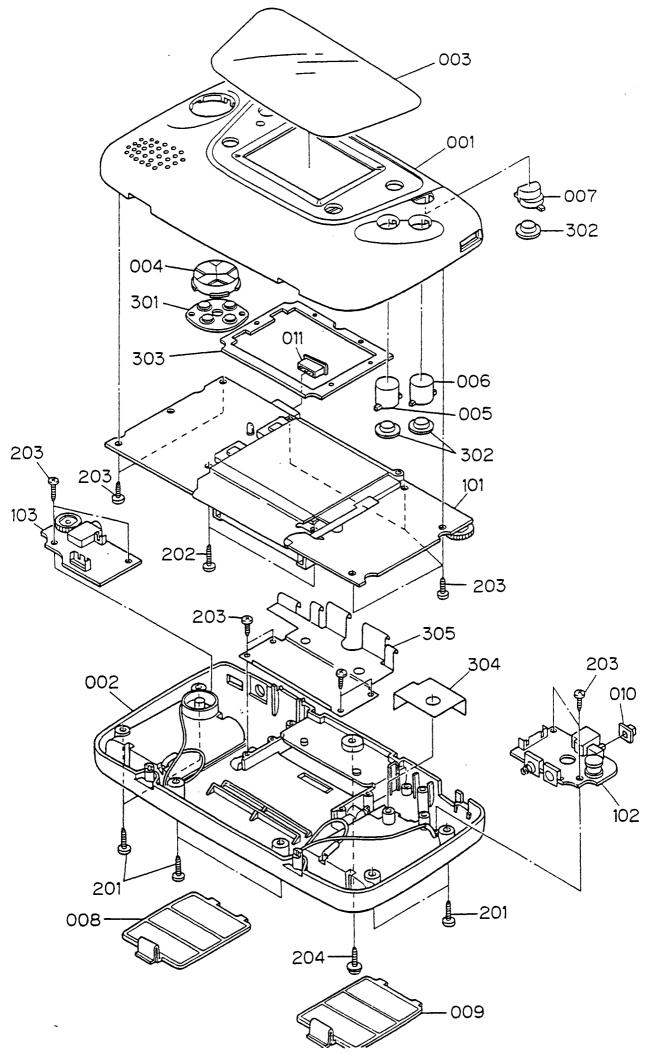
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1

EUROPE

ASSEMBLY DRAWING



ASSEMBLY LIST FOR GAME GEAR EUROPE

INDEX

- 1001 BOTTOM CASE ASSEMBLY 1
- 1002 BOTTOM CASE ASSEMBLY 2
- 1003 MAIN BOARD ASSEMBLY
- 1004 BOTTOM CASE ASSEMBLY 3

PARTS LIST FOR GAME GEAR EUROPE

1001 BOTTOM CASE ASSEMBLY 1

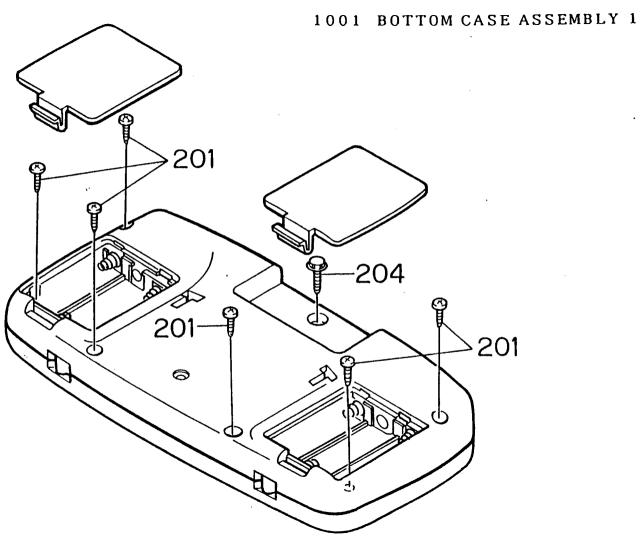
	PART NO.	DESCRIPTION	Q.
008	253-6368 253-6369	BATT LID LEFT GG BATT LID LIGHT GG	

201 029-0069 TAP SCR PH 2.6*10 BLK

204 029-0326 TAP SCR LH-3 2.6*10 BLK

1

6

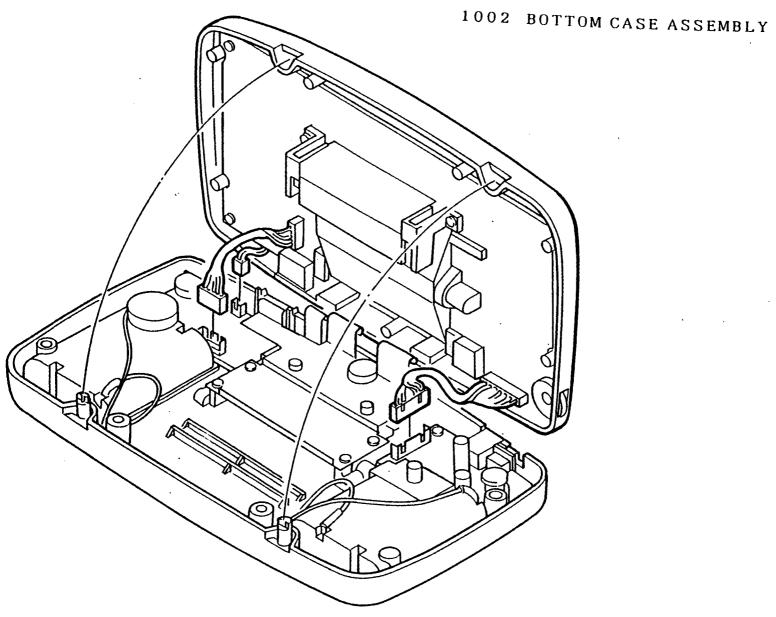


PARTS LIST FOR GAME GEAR EUROPE

1002 BOTTOM CASE ASSEMBLY 2

REF NO. PART NO. DESCRIPTION QTY

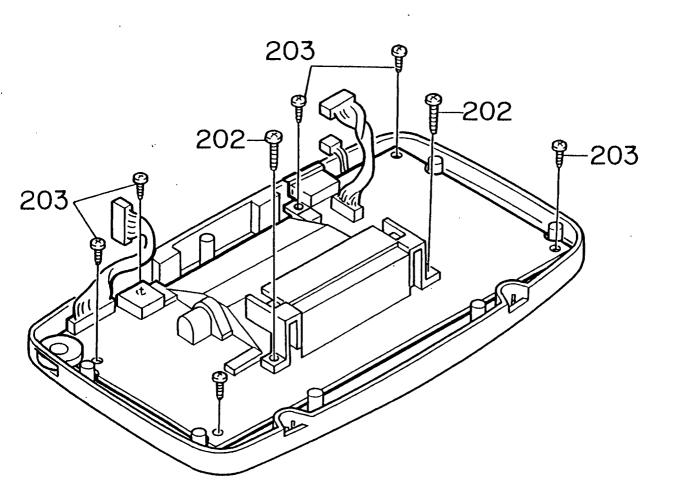
NON PARTS ASSEMBLY.



PARTS LIST FOR GAME GEAR EUROPE

1003 MAIN BOARD ASSEMBLY

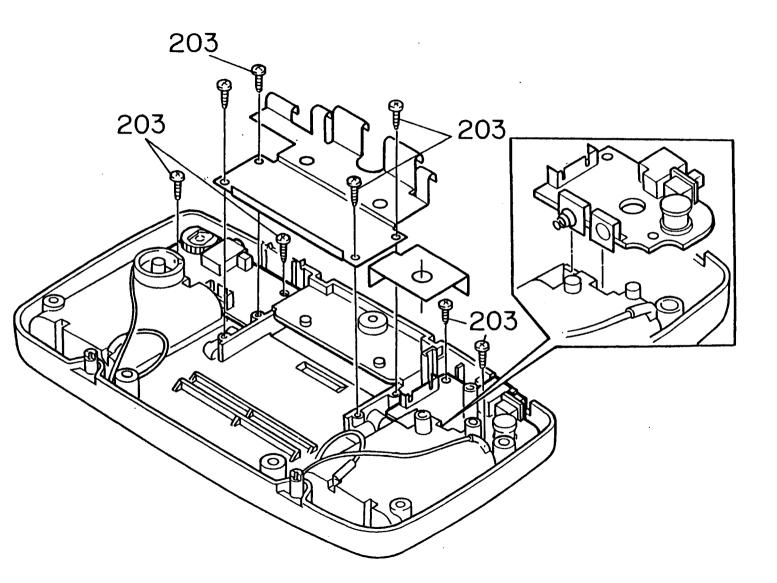
REF NO.	PART NO.	DESCRIPTION	QTY
101	837-7994 837-7994B	ASSY IC BD GG EUROPE ASSY IC BD GG EUROPE B	(1)
202 203	012-0312 012-0206	TAP SCR PH 3*12 TAP SCR PH 2*6	2 6



PARTS LIST FOR GAME GEAR EUROPE

1004 BOTTOM CASE ASSEMBLY 3

REF NO.	PART NO.	DESCRIPTION	QTY
002	610-5255 610-5255-01	ASSY BOTTOM CASE GG MULTI ASSY BOTTOM CASE GG MULTI 0	(1) 1 (1)
102	837-7997 837-7997B	IC BD GG DC-DC CONV.EUROPE IC BD GG DC-DC CONV.EUROPE B	(1) (1)
103	837-7998 837-7998B	IC BD GG SOUND EUROPE IC BD GG SOUND EUROPE B	(1) (1)
203	012-0206	TAP SCR PH 2*6	8
305	250-6243	SUPPORT PLATE GG 01	1



1.DISASSEMBLY

- PROCESS 1: Removing screw from Bottom Case.
 - 1) Upset the unit.
 - 2) Remove Battery Lid.
 - 3) Remove screws (201 and 204)
 - 4) Remove a screw (204)
- PROCESS 2: Removing Bottom Case.
 - 1) Hold up Bottom Case to the direction (A) and make the open condition.
 - 2) Remove the connector of DC converter Board fixed on the Bottom Case.
 - 3) Remove two connectors of Sound Board fixed as above.
- PROCESS 3: Removing the Main Board.
 - 1) Remove the screws (two 202 and six 203) and Main Board from Top Case.
- PROCESS 4: Removing Support Plate, DC-DC Conv. Board and Sound Board.
 - 1) Remove 4 screws (203).
 - 2) Remove Support Plate from Bottom Case.
 - 3) Remove 2 screws (203).
 - 4) Remove DC-DC Conv. Board from Bottom Case.
 - 5) Remove 2 screw (203).
 - 6) Remove Sound Board as above.

2.ASSEMBLY

- PROCESS 1: Setting Support Plate, DC-DC Conv. Board and Sound Board.
 - 1) Set the Sound Board, DC-DC Conv. Board and Support Plate to Bottom Case using 8 screws (203).
- PROCESS 2 : Setting of Main Board.
 - Spray surface of inside clear plate with static proof liquid.
 - 2) Carefully observe and take away dust inside clear plate and Top Case using air gun in clean place. Set each Button and Rubber contact to normal position.
 - 3) Set LCD cushion along to the place of Bosses in Top Case.
 - 4) Lead Speaker Cable outside of Boss of Top Case.
 - 5) Setting of Main Board.
 - Case 1 After exchange of LCD Take off protection film of LCD.
 - Case 2 Others

Clean surface of LCD using air gun.

Set the Main Board inside and along to the Bosses of Top Case.

Note: At the setting of Main Board, it is important to set it as quick as possible to prevent the stick of dust on the surface of LCD and clear plate.

- 6) Fix screw 6 of 203 and 2 of 202.
- PROCESS 3 : Setting of Bottom Case.
 - 1) Correct 2 connectors from Main Board to Sound Board and 1 connector from Main Board to DC-DC Conv. Board.
 - 2) Firmly set Bottom Case to Top Case taking care not to pinch cables in the edge of cases.
- PROCESS 4 : Screwing Bottom Case.
 - 1) Upset the unit.
 - 2) Fix a screw (204).
 3) Fix 6 screws (201).
 - 4) Fix Battery Lids.

EUROPE .

SPARE PARTS LISTS

GAME GEAR SPARE PARTS LIST FOR EUROPE

Νo	PARTS No.	DESCRIPTION	R1	Ŕ2	R3	R4
,	610-5212	Assy Top Case GG USA	•		•	
1	610-5212-01	Assy Top Case GG USA 01		•		•
2	610-5255	Assy Bottom Case GG MULTI	•		•	
2	610-5255-01	Assy Bottom Case GG MULTI 01		•		•
3	253-6362	CLEAR PLATE GG	•	•		
3	253-6434	CLEAR PLATE GG INMOLD	•	•	•	•
	509-5334-01	RUBBE CONTACT 4P 01	•	•		
4	509-5334	RUBBER CONTACT 4P			•	•
	509-5335	RUBBER CONTACT 1P	•	•	•	•
5	837-7994	ASSY IC BD GG EUROPE (837-7995)	•	•	•	•
ວ	837-7994B	ASSY IC BD GG EUROPE (837-7995B SCA B)	•	•	•	•
6	837-7997	IC BD GG DC-DC CONV.EUROPE	•	•	•	•
7	837-7998	IC BD GG SOUND EUROPE				

Note:

R1: PARTS No.610-5224 ASSY GG MULTI

R2: PARTS No.610-5224-01 ASSY GG MULTI 01

R3: PARTS No.610-5358 ASSY GG MULTI CONTACT TYPE

R4: PARTS No.610-5358-01 ASSY GG MULTI CONTACT TYPE 01

EUROPE

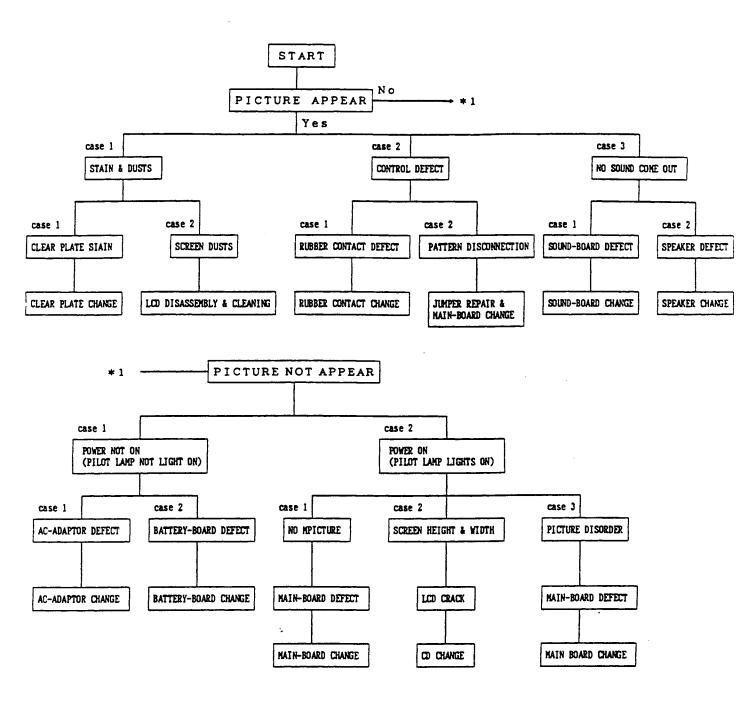
ACCESSORIES LIST

GAME GEAR ACCESSORIES LIST FOR EUROPE

Νo	PARTS No.	DESCRIPTION
	MK-2101-05	TV TUNER PAC (PAL-I:ENGLAND)
1	MK-2101-18	TV TUNER PAC (PAL-B: ITALY/PAL-G: GERMANY) *ZZF APPROVAL
	MK-2101-20	TV TUNER PAC (PAL-B: ITALY/PAL-G: GERMANY) *ZZF NOT APPROVAL
2	MK-2102-50	GEAR TO GEAR CABLE
3	MK-2104-50	CAR ADAPTOR
4	MK-2105-50	BATTERY PAC
5	MK-2106-50	AV CABLE
	400-5122A	AC ADAPTOR AC220V/DC10V 1.2A
6	400-5122B	AC ADAPTOR AC220V/DC10V 1.2A
Ь	400-5127	AC ADAPTOR AC240V/DC10V 1.2A
	400-5127A	AC ADAPTOR AC240V/DC10V 1.2A

EUROPE

PCB REPAIR PROCEDURE



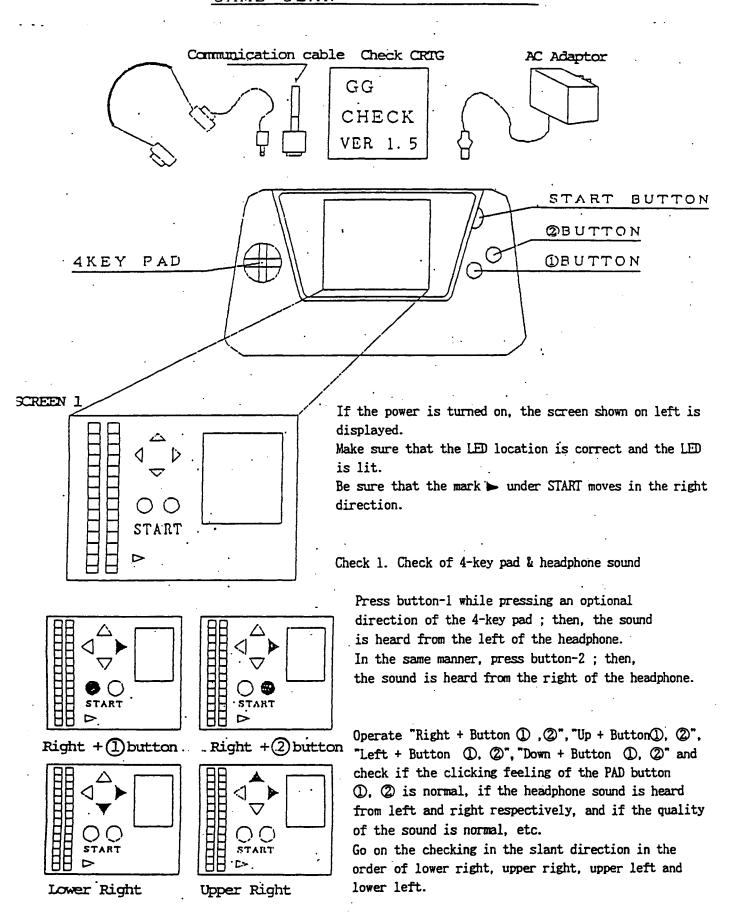
EUROPE

SOFT & HARD CHECK MANUAL

SOFT CHECK MANUAL

GAME GEAR SOFT CHECK FLOW

```
CHECK CARTRIDGE----
COMMUNICATION CABLE - - START
HEADPHONE-----
                                     NΟ
               CHECK PATTERNS APPEAR --→ ERROR
                          lYes
                                                     NO
CHECK OF 4-KEY PAD & BUTTON 1 OR 2 & HEADPHONE SOUND --→ ERROR
                          | Yes
                          |--- REMOVE THE HEADPHONE PIN
                                         NO
           CHECK OF THE BUILT-IN SPEAKER --→ ERROR
                          lYes
                  START BUTTON ON
                                              NO
         --- → CHECK OF BRIGHTNESS (CONTRAST) -- → ERROR
                         lYes
                  START BUTTON ON
                                                          NO
                   CHECK COLOR 1 (VERTICAL COLOR PATTERNS) -- → ERROR
                         lYes
                  START BUTTON ON
                                                            NO
                   CHECK COLOR 2 (HORIZONTAL COLOR PATTERNS) --→ ERROR
                         Yes
            --- START BUTTON ON
                        END
```



CHECK 2. Check of the built-in speaker

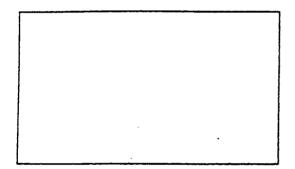
Remove the headphone pin and perform the same manner as the check 1. (Check in the slant direction canceled.)

Move the sound volume to the maximum and minimum and check if the sound is interlocked and the volume sound is smooth.

If there is no problem in the above check, switch to the next screen. (Press START)

* At this point, check if there is any abnormality in the operation of the START button or in the click feeling.

SCREEN 2



CHECK 3. Check of brightness (Contrast)

Move the brightness volume to the maximum and minimum and check if the light volume is interlocked to the movement and if there is any light unevenness, LCD stain, damage, spots, etc.

At this point, press the pad and buttons the respective colors and LCD (spot, dust, difference defects, etc.)

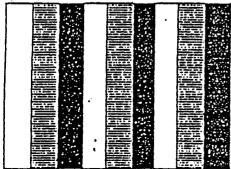
1. Red. 2. Yellow 1+2. Black

Upper: Green Lower: Green Left: Purple

Right: Pink

If there is no problem in the above check, switch to the next screen. (Press START)

SCREEN 3



If there is no problem in the above check.

switch to the next screen. (Press START)

CHECK 4. Color check ①

Vertical color patterns appear. Check if the hues are normal, or if there is any LCD stain, scratch, and spot etc.

CHECK PROGRAM AND ORDER

- (I) Check the following 3 items in the state of black screen until the check screen (Fig. 1) appears after turning on the power. If an error occurs, the error messages as shown in Table 1 appear in white characters on the red background. At this point, terminate the checking and stop further checking work.
 - ① Scratch RAM R/W check
 - ② V_RAM R/W check
 - 3 Communication port check (Parallel & Serial)
- (II) If the above check (I) is 0.K., check the following 5 items as the check screen (Fig. 1) appears,
 - JOY port check
 Color RAM check
 Spright check
 Sound check

· Cross-talk check

① Color RAM check

② Direction button check
(↑ 1 ↔)
③ A & B button check
④ START button check
⑤ Spright check
⑤ Cross-talk check

Fig. 1 Check sreen

SCRATCH RAM CHECK

- ① Read after writing all 55h to COOOh~DFFFh.
- ② Read after writing all AAh to COOOh~DFFFh.
- Write 1FFFh to C000h and C001h. Write 1FFEh to C002h and C003h.

1

Write 1000h to DFFEh and DFFFh.
Read the above values respectively.

V_RAM CHECK

- Read after writing all 55h to 0000h~3FFFh.
 - ② Read after writing all AAh to 0000h~3FFFh.
 - Write 3FFFh to 0000h and 0001h. Write 3FFEh to 0002h and 0003h.

1

Write 2000h to 3FFEh and 3FFFh.
Read the above values respectively.

COMMUNICATION PORT CHECK

- . (1) Serial communication check
- 2 Parallel Communication check

{ The exclusive adaptor is required as checking is done by one(1) set.}

JOY PORT CHECK

...... ① Checking of the direction button (↑↓↔),

A&B buttons and START button (if the button
is pressed, the corresponding porttion turns red.)

COLOR RAM CHECK

...... Displaying of the 32 (colors) squares

SPRIGHT CHECK

...... Move the arrow in right and left direction with spright definition.

SOUND CHECK

① Check the (pseudo) stereo (left, right or left-right simultaneousl by using an earphone). Three tones and one noise are allocated to the direction buttons (↑ ↓ ↔) and the distribution to left/right by stereo is allocated to the A/B butons. For example, if the (↑) button is turned on while pressing the A button, the tone-1 is delivered to the left. (If the left-right button is pressed in this state, the output is made o the both sides.)

CROSS-TALK CHECK

Table-1. ERROR MESSAGE

Game Gear Hardware Checker
(Parts No. 610-5176)

Issued on : Ang. 4, 1992 SEGA JAPAN. 1. General

This checker is designed to check the Printed Circuit Bosons! Assembly for Game Gean.

2. Operation Flow

- 1 Connect the Checker to Pin Tool by using the connectors (14 pin, 24 pin, 36 pin, 2 pin, SUB PCB, STARTSW, 5W2)
- 2 Connect the checker to TV by using Video Cable
- 3. Connect the checker to 100 V outset.
- 4 Turn the Checker Power on ("SET INSPECTED TARGET" is indicated on TU screen)
- 5 Set the PCB Assig on Pin Tool.
- 6. Turn the "START SW" on (Screen should be finde out and "CHECK UOLUME" is indicated on TV screen after about Zsec, then "VOLUME CHECK" is indicated on LCD screen)
- 7 Rotate the Ublume Adjustment on PCB and check the "Lovel Graze" on Volume Screen adjusted between 0 8 and also confirm the Indication of color-Bar change the color- from white to black.

 LED on PCB should be lit on
- By pressing "SW2", Finishthelolume Check function and "CHICK LCD" on TV and Red Color Bon on LCD are indicated.

 Then color bon should be chang color from Red -> Green -> Blue by pressing "SW2"
- 9 Press "SW2" again and confirm the "CHECK LED" is indicated on both TV and LCD. In this condition, LED should blinks.
- 10 After confirm the LED blinking, press "OW2" to change the screen for TV Mode Check. Confirm both LCD and TV has some indication in this condition. Then press "SW-2" again to change the TV screen to Error Check (Horizontal/Vertical Direction = Color Bar)
 - Incre of no error "TESTIOE" and in case of error "ERR POINT" and Error Point should be indicated.

- 11. Turn "STARTSW" off and remove PCB from Pin Tool
- 12. Repeart abone procedure 5 1.

Note

- 1. If turn the "STARIT SW" on without setting or improper-solling of PCB Assig on Pin Tool or POWER SHORT ERROR is found, Checker will stop inspection and indicate "WARNING POWER SHORT ERROR CHECK STOP" on TU screen
 - 2. If "BUS ERR" is found, chocker do not execute item 7 and 8.
- 3. In case the Error other than "POWER SHORT ERROR" is found, all errors are indicated on Error Check Screen during TU Hocle check. (as to Errors, Please refer to Error Hesinge)
- 4. as to Volume Check, LCD Color Banchick, LED Chock&TVHrde Screen Check should be visible inspection (Hen7, 8, 9 & 10)
- 5 checke program can not perfor the Visible Inspection.

3) Check Flow Check Item (SYSTEM) Check Item (TAXXXI) <u> TVSCREN</u> LCD SCREEN POWER ON STARTSWON " SET INSPECTED TARGET" BLANE START Chack FADE OUT 0.55 WAIT Short Circuit Chode Target Power ON/OTF Clack Check Slant. DUALRAM Check SRAM cheek Check URAM JOYSTICK Check CPU Control Signal Communication Check Communication check BLANK SW2 on Volume Check Screen "CHECKUOLUME" Volume Charle LCD Check CHECK LCD" Red Color Bar (BACK COLOR RED) (BACK COLOR GREEN) Green Color Bar (BACK COLOR BLUE) Blue Color Bur "CHECK LED" LED BLINK Check END "CHECK LED" OFF RESET Check Votical Color Bar Jame as TV screen 5W2 0N Horizordal Colo Bar 5W2 ON START SW OFF Error Check Screen STARTSW ON Repeat ` ک

4) Error Message.

Errors except for "POWER SHORT ERROR" are discovered during inspection shall be indicated on TV screen as "ERR POINT" after inspection. (If there is no error, "TEST 1 OE shall be indicated)

Error message is constructed from Main Error Message (Error Polion)

and Sub Error Message (Error statues on Futher to define usor pation)

(1) Enor Indication

I. Standard From Indication

ERR POINT Main Error Message & 1 Sub Error Message POWER H S-RAM T5V V-RAM 12.5 V JOYSTICK ~ Main Error Message 012345 ~ Sub Error Message VREF . L H CPUSIGNAL VRES 012345 VONF COMM T34-V FL-H VOL OVER

CURNT L ON RST FST

OFFSET SLW

Sub Error Message

Hain Error Message

CHECK ERRORS = * * ~ Total Error

I Bus Error Indication

ERR	P	THIC
Main Enor Mesange	1.	Sub Error Message
FOWER .	Н	BUS ~ BUS ERROR
7 5V	L	
72.5V	H	
UREF	L	ERR
URES	H	
VONF	<u>_</u>	
+34V	[-]	
FL-F	L	
FL-V	H	
CURNT	L	ON ROT FOT
		OFFRST SLW
		Sub Ever Hasage
		Main Enor Hessage
CHECK	ERROF	RS = * * TOTAL ERPOR

In case of short circuit of Address, Data Bus and/or CN1", "Wine disconnection", "Pin Tool on Sub PCB Assig missetting" or "Defective (I function check of PCB Assig shall not be executed to eliminate the uncontrolled program run. (Therefor, inspection between DUAL ROM check and LCD check shall not be performed)

2). Power Short Error Indication.

In case of short circuit on PCB Asy or inproper setting of PCB Asig, stop inspection to protect the PCB damage and indicate the following message

WARNING
POWER SHORT ERROR
CHECK STOP

If tun "START SW" off, screen returns to original ("SET INSPECTION TARGET").

(3) Error Message and Defective Portion.

<u>No</u> .	Hain Ever	<u>Sto Enor</u>	Istective Portion	Note:
\bigcirc	POWER	HorL	Short Circuit or Improper	Ineto POWER SHORTERROR,
			Short Circuit or Improper setting	this is not indicated as long a
				program runs correctly
$^{\circ}$	75V	Horl	Battery Board (837-7399-01)	ANALOGSV signal is not
©	+2.5V	Howly	R48, R49, C48	within Standard Voltage +2.5V wo not within
	,	Horb	Battery-Board	Standard Vollage
\bigcirc	VREF	Horl	IC3-PIN30	Vrefsignal is not within
			Battery Board	Standard Vollage.
\oplus	VRES	Horl	IC3-PIN32, R50, R51, R52	Vressignal is not within
			D4,C49 Rother Royal	Standard Vollege
	VONF	Horl	Battery Board IC3-PIN31, RD, RSL, RS2	Vort signal is most within
		.,,,,	D4,C49.	Standard Voltage
(T34V	HorL	Battery	T34V signal is not within
			O	Standard Voltage
\oplus	FL-F	HorL	Around T1,03,04	FL Frequency is out of
		<u>.</u>		Spac.
	FL-V	HorL	"	FL Vollage is out of
\bigcirc	CUBIT	Harl	IC2.IC5, Resistor, Capacitor,	Spec Current is out of spec
	CURNT	HorL		
(5-RBM	Non	Soldering of IC, Misselling IC4, IC2, IC1	Internal RAM Operate
			•	correctly?
D	V-RAM	Non	IC5, IC2, IC1.	VRAM operate correctly?
Θ	V-RAM JOYSTICK	0-5	IC3, Pattern on PCB	Data can transfer to
		0-5	IC1, IC3. X1	JOYSTICK PORT *1
(C_1)	CPU SIGNAL	<i>U</i> - 3	Miscontact on Pin Tool	Check CPU Signal X 1
.0	COHN	0~6	IC3, CU2, EM1~EM8, X	Communication done in proper way. X1.

7

10 VOL OVER	Non	IC3,Ic6,Ic2 Soundboord (837-7400-01)	SOUND Output is more than Spec. ("LEVEL OVER" is indicated on Uslume Chock Screen)
@ ON RST	FST ov SLW	IC3, Buttery Board RDn52 , D4. C49 inspection did cnot execute correctly	Forequired period during
P OFFRET	FST or SLW	IC3. Buttery Board RD~52, D4, C49 inspection did not execute correctly.	

(4) Sub Error Message

I. H or L (@~\$)

H: Inspected value is higher than spec. (High)

L: Inspected Value is Lower than spec. (Low)

I. FST or SW (Q. P)

FST: During Power On or off stage, Reset signal raises or drops

earier than spec. (FaST)

SLW: During Power on or Off stage, Roset signal naises or drops

slower than Spac. (SloW)

I JOYSTICK 0~5 (19)

SUB ERROR	Deflective Portion	Note.
0	IC3, Patter on PCB	PADSW don't became all on condition
1	IC3, Pattern on PCB	PDD SW do not became all off condition
2	IC3, Pattern on PCB	Upper, Right, SWI donat became on
3	IC3. Patter on PCB	Lower, Left, SW 2 do not be came on.
4	<i>;</i>	PAUSE/STAKT SW donot became on
5	\$	PAUSE/STARTSWownet became off.

V \$\text{\$\text{\$O}\$ \in \text{\$O}\$ \\ \text{\$O\$}\$

SUB EAROR	Deffective Portion	Note.
0	ICL-PIN20	IDRO does not generate correctly.
1	ICL-PIN27	MI does not generate correctly.
2.	ICT - 611758	RFSH desnot generale as weetly.
3.	IC3-PIN35,XL	CCLE dissurot generate correctly.
4	IC1-PIN24,R2	WAIT does not generate correctly
2 ·	IC1 - PIN24, R1	BUSRQ doesnot sens rate correctly.

· Communication 1~6 (@)

SUB FROR	Deffective Portion	Noto.
0	ICB.CN2, EH1~EM8	Input data does not mutch with instructed value
, 1	JC3,CN2,EM1~FM8	Cannot input data.
2	IC3.CU2, EM1-EMP	Outputdata does not mutch with instructed value
3	IC3, CN2, EH1 ~ EH8	Cannot out put data
4	IC3, CU2, XI	Cannot out put 4800 BPS.
5	IC3, CN2, X1	Cannot output 200BRS.
6	ICS, CN2, X1.	Cannot output the data with 2400 BPS.

Note.

In case 0~3 and 4 error is indicated, 0~3 suberror is happened during data input output with 4800 BPS

1 Note about sub Bror.

I. Hand L. Sub Error does not generate at the same time for 1 Main Error.

II. FST and SLW Sub Error does not generate at the same time for I Hair Error

II DaD, @ and Borror is generated, Hor L, FST or JLW Jib Eller should be generated after Main Error. So, these error is making I error with the combination of Jub and Main Error.

Therefor, if SUB Error is not generated after Main Error, there may be some Chance program does not run properly.

TO 0~6 Sub Error generate for Q, Q and Q Main Error, Incomerce is mutch for I Error. Therefor, there is possibility more Than I mumeric is generaled. And no explained in above item III, Sub Error and Main Error is alway making pin.

Visual Check. Please perform the Visual Check on the following 4 items. And.
Visual Check portions are ICD Screen on Checker" and "ZED on Checking PCB" Checker program did not have this function. Usual Check Point Check Item No Deffective Partion LCD Stream When turn the VOL adjustment 500ND BOARD (87-7400-01. (Wolume Check) on PCB, chocke the level gage. ICG.IC3, IC2, R3~ RID, C8~C11. in "VOLUME CHECK" screen moves 0-8/8-0. 0 check the color-bar changes LCD Screen IC3, IC2, IC5 (LCD Check) the color Red > Green -> Blue , by pressing SW2.

(Specially on Red Color Ban,
Black line at color changing
portion should next be observed)

Check LED-blinking on PCB

(LED CHECK) at "CHECK LED" screen

Chock there is no difference

(TV HoDE CHECK) Between LCD screen and

TU screen in TV mode

LD1, IC3, P11

Battery PCB (837-7399-01)

IC3. CN1

5) Others

Deter Relay.

Meter Relay observes the power consumption of GG.

Setting Value should be in between "LOW side = +0360" and HISIDE = +0430".

This setting has enough allowance even if parts specification unline maybe fluctuated. So please try to set above gap as much as narrow.

This error is indicated as DCURUT onscreen.

D CN2

Inspection starts as soon as CN2 is activated. Planse make series CND is activated after Cam Swimstes conduct " and Prins on Pin Tool contact to points complitly"

Dease connect the Push SW which is used at Inspection And Pin # 1 and #3 should be used.

Moment Type Switch should be used also.

@ Radiator For IC2 & ZC9

Please mount the proper radiator on IC2 (upc 8/7), IC9 is not required to mount any radiation.

Please do not use the radiator jointly between IC2 6-IO9.

@ Patter Correction

The following pattern layout modifications should be agained on 837-76/7 Board.

- a. V of AC/12VDC and AC/5VDC should be jumpered at both side of PCB
- & 10 pin of IC5, IC8 and IC12, should be disconnicted and connected to pin #11
- c Add 74HC4066 and connect the pin #1 to Pin #1 of IC36, Pin #2 to Pin #24 of CN3 and pin #13 to Pin #1 of IC38
- d. Cut the pattern between Pin # 1 of IC37 and Pin # 24 of CN3
- e Discome it Pin #64 of IC 28 and Jumper to pin # 65 line.
- f Jumper the pin # 14 of IC44 to GND
- 3 Disconnect Pin # 3 and #45 of IC41 and these discounsiled lines should be connected to Pin # 48 through IKI Recisions.

 And disconnected Pin #3 should be counseted the line used to connect with Pin #45 through 120 & Recision.

Disconnected Pin#45 should be connected to the line used to connecte with Pin#3 through 120 D Resistor.

) Caution

- 1 Since more than 300 V high Voltage line on P37-7619 PCB Assig (ASSY GG CHECKER LCD). Please handle very care fally.
- 2 36 wire cable length for Pin Tool should be minimized! If cable is too long, you may observe LCD screen interference.
- 3. Please turn on the checker 10 minute before inspection.

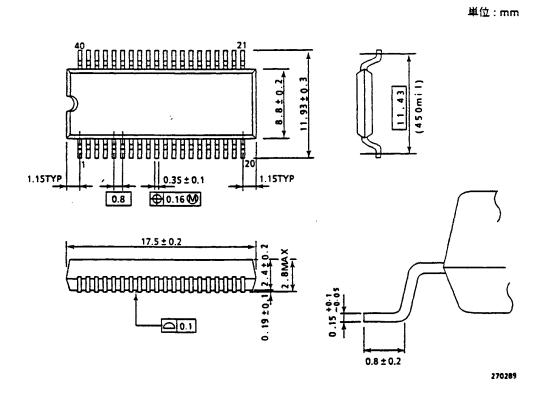
GAME GEAR

EUROPE

PARTS SPECIFICATION

			_
A11 [1	40	A10
A12 [2	39	D A9
A13 [3	38	1 A8
A14 [4	37) A7
A15 [5	36	D A6
CLK [6	35	D A5
D4 [7	34	D A4
D3 [8	33	D A3
DS [9	32	D A2
D6 [10	31	DA1
Vcc [11	30) A0
D2 [12	29	D vss
D7 [13	28	D RESH
D0 [14	27	D MT
D1 [15	26	RESET
ואד ב	16	25	BUSREQ
ואאו	17	24	D WAIT
HALT	18	23	BUSACK
MREQ [19	22) WR
IORQ (20	21) RO

SSOP40-P-450



ピン名称と機能

		入/出力	
ピン名称	ピン数 	3ステート	機能
A0~A15	16	出 カ 3ステート	16ビットのアドレスパス。 アクセスするメモリや入出力ポートのアドレス指定を行います。リ フレッシュ期間中はリフレッシュ用アドレスが出力されます。
CLK	1	入力	単紀のクロック入力。 クロック入力がDC状態("1"レベルまたは"0"レベル継続)になると MPUは動作を停止し、そのときの状態を保持します。
D0-D7	8	入出力 3ステート	8ピットの双方向性データバス。
INT	1	እ ታ	マスカブル割込み要求信号。 割込みは周辺LSIから起動されます。ソフトウェアによって、割込み 許可用フリップフロップ(IFF)が"1"にセットされていれば受付けられます。INTは通常ワイヤードオアで使用され、その場合はブルアップ抵抗を外部に付加します。
NMI	1	እ ታ ·	ノンマスカブル割込み要求信号。 この割込み要求は、マスカブル割込みより優先度が高く、割込み許 可用フリップフロップ(IFF)の状態に依存しません。
HALT	1	出 カー	ホールト信号。 MPUがHALT命令を実行し、ホールト状態になると"0" が出力されます。
MREQ	1	出 カ 3ステート	メモリリクエスト信号。 メモリアクセスのための実効アドレスがアドレスバスに乗ってい るときに"0"が出力されます。また、メモリリフレッシュ期間中も RFSH信号とともに"0"となります。
IORQ	1	出 カ 3ステート	入出力リクエスト信号。 入出力動作で入出力のためのアドレスがアドレスバスの下位8ビット (A0〜A7)に乗っているときに"0"が出力されます。また、IORQ信号 は割込みアクノリッジ時にMT信号とともに出力され、割込み応答ベ クトルをデータバス上に乗せてもよいことを周辺LSIに知らせま す。
RFSH	1	出力	リフレッシュ信号。 ダイナミックメモリのリフレッシュ用アドレスがアドレスバスの 下位7ビットに乗っているとき"0"が出力されます。このとき、 MREQ信号もアクティブ状態("0")になります。
Mī	1	出力	マシンサイクル1を示す信号。 命令のオペコードフェッチサイクルでMREQとともに"0"が出力されます。2パイトのオペコード実行時には、オペコードフェッチごとに出力されます。マスカブル割込みアクノリッジサイクルではIORQ信号とともに出力されます。
RESET	1	λ	リセット信号。 RESET信号は、MPUの初期化を行う信号で少なくとも 3クロック期間 アクティブ状態("0")にしなければなりません。
BUSREQ	1	እ ታ	バスリクエスト信号。 BUSREQ信号は MPUのアドレスバス,データバス, MREQ, IORQ, RD, WRを高インピーダンス状態にすることを要求する信号です。 BUSREQ信号は通常ワイヤードオアで使用され、その場合はブルアップ抵抗を外部に付加します。
WAIT	1	入力	ウェイト信号。 WAIT信号は、MPUに対して指定されたメモリあるいは周辺LSIが データ転送準備ができていないことを知らせます。 WAIT信号が10*である限り、MPUはウェイト状態を継続します。
BUSACK	1	出力	パスアクノリッジ信号。 BUSREO信号を受付けて、周辺LSIに対して、MPUのアドレスバス,データバス, MREO, IORO, RD, WRが高インピーダンス状態になったことを知らせます。
₩R	1	出 カ 3ステート	ライト信号。 指定したメモリあるいは周辺LSIに格納すべきデータがMPUデータ バス上に乗っているとき出力されます。
RD	1	出 カ 3ステート	リード信号。 MPUがメモリまたは周辺LSIからデータを受入れ可能な期間、"0"が 出力されます。指定された周辺LSIあるいはメモリのデータをこの信 号でゲートし、MPUの データバスに乗せることができます。
NC (PLCCのみ)	4	-	内部には接続されていません。 オープンで使用して下さい。
Vcc	1	電源	+5V
1,,,,	T ,	777 is	nv

: 837-7996B PART NO

РΛ	RTI	ΝΟ.	: 8	337-7996B		
DE	SCR	IPTION	: 1	C BD GG MAIN	EUROPE B	•
	CATE				DESCRIPTION	•
61.00			126	476-2201-J-10		1/10V 5%
62.00			133	476-2472-J-10		
63.00			134	476-2103-J-10		1/10W 5%
64.00		(SOLDER)		176-2102-J-10		1/10V 5%
65,00		(SOLDER)	129	476-2102-1-10		1/10W-5%
66.00		(SOLDER)	134	476-2103-J-10		1/10V 5%
67.00	R23	(SOLDER)	129	476-2102-J-10	RES CHIP IKOHM	1/10W 5%
68.00		(SOLDER)	129	476-2102-J-10	RES CHIP - IKOHM	1/10W 5%
69.00		(SOLDER)	134	476-2103-J-10		1/10W 5%
70.00			138	476-2473-J-10		1/10W 5%
71.00			138	476-2473-J-10		1/10W 5%
72.00			910	NOT USED	NOT USED	
73.00			130	476-2182-J-10	RES CHIP 1.8KOHM	
71.00			130	476-2182-J-10	RES CHIP 1.8KOHM	
75.00			139	476-2104-J-10	RES CHIP LOOKOHM	-
76.00			139	476-2104-J-10	RES CHIP 100KOIM	
77.00			172	476-2303-J-10		I/10W 5%
78.00			135	476-2203-J-10		1/10W 5%
79.00 80.00			125 148	476-2510-J-10 476-2563-F-10		1/10W 5% 1/10W 1%
81.00			146	476-2303-F-10		1/10W 1%
82.00			125	476-2510-J-10		1/10W 5%
83.00			143	476-2471-F-10	RES CHIP 470 OHM	
84.00			143	476-2471-F-10	RES CHIP 470 OHM	
85.00	R41		131	476-2222-J-10	RES CHIP 2.2KOHM	
86.00	R42		140	476-2244-J-10	RES CHIP 240KOHM	1/10W 5%
87.00			136	476-2223-J-10		1/10W 5%
88.00			136	476-2223-J-10		1/10W 5%
89.00			142	476-2105-J-10		1/10W 5%
90.00			136	476-2223-J-10		1/10W 5%
91.00		(COLDED)	136	476-2223-J-10		1/10W 5%
92.00 93.00		(SOLDER)	134 134	476-2103-J-10 476-2103-J-10		1/10W 5% 1/10W 5%
94.00		(SOLDER)	174	476-2912-F-10	RES CHIP 9.1KOHM	
95.00			173	476-2112-F-10	RES CHIP 1.1KOHM	
96.00			175	476-2302-F-10		1/10W 1%
97.00		(SOLDER)	171	476-2122-J-10		1/10W 5%
98.00		,	127	476-2221-J-10	RES CHIP 220 OHM	
99.00			127	476-2221-J-10	RES CHIP 220 OHM	1/10W 5%
100.00			127	476-2221-J-10	RES CHIP 220 OHN	L/10W 5%
101.00			127	476-2221-J-10	RES CHIP 220 OHM	
102.00			127	476-2221-J-10	RES CHIP 220 OHM	
103.00			127	476-2221-J-10	RES CHIP 220 OHM	= -
104.00		(SOLDEK)	127	476-2221-J-10	RES CHIP 220 OHM	-
105.00		(SOLDER)	127	476-2221-J-10	RES CHIP 220 OHM	
106.00 107.00		(SOLDER)	127	476-2221-J-10	RES CHIP 220 OHM	
107.00		(SOLDER)	127	476-2221-J-10	RES CHIP 220 OHM	1/10W 5%
109.00			910 165	NOT USED 150-0311	NOT USED CAP E CHIP 33U	U C DV M
00.01						F G.3V M
111.00			163	150-0308		6.3V M
112.00			157 157	151-0265		JF 25V ZF 2125
113.00			163	151-0265 150-0308		JF 25V ZF 2125
114.00			157	151-0265		6.3V M
115,00		(SOLDER)	158	151-0266	CAP CER CP 0.33UI	JF 25V ZF 2125
116.00	C9	(SOLDER)	158	151-0266	CAP CER CP 0.3301	7 25V Z F 3216 7 25V Z F 3216
117.00	C10	(SOLDER)	158	151-0266	CAP CER CP 0.3301	
118.00	C11 ~	(SOLDER)	158	151-0266	CAP CER CP 0.3301	
119.00	C12	(SOLDER)	157	151-0265		JF 25V ZF 2125
120.00	CI4		157	151-0265		JF 25V ZF 2125
					• •	

PART NO. : 837-7996B

DESCRIPTION : IC BD GG MAIN EUROPE B

DESCRIPTIO	N:1	C BD GG MAIN	EUROPE B
LINE LOCATE	SO ONG	PART NO.	DESCRIPTION
1.00	1	171-61011	PC BD GG MAIN EUROPE
			IC Z80A C-MOS SOP TMP84C00AM-6
2.00 [C]	101	315-0545	
3.00 102	102	315-5377	IC CUSTOM CHIP VDP GG QFP
4.00 103	103	315-5378B	IC CUSTOM CHIP SCA GG QFP
5.00 104	104 1	315-0546	IC UPD4364G-15L SOP 28P
6.00 IC4	104 2	315-0611	IC FCB61C65L-70T SOP 28P
7.00 IC5 (SOLDER)	105	315-0547	1C HM65256BLFP-12 SOP 28P
8.00 ICG (SOLDER)	106	313-5134	IC UPC358G2 SOP 8P
9.00 ឡា	108	482-5126	XSTR 2SC1623 L57 CHIP
10.00 មុខ	910	NOT USED	NOT USED
11.00 Q3 (SOLDER)		482-5127	XSTR 2SD1614 CHIP
12.00 Q4 (SOLDER)		482-5127	XSTR 2SD1614 CHIP
13.00 Q5	108	482-5126	XSTR 2801623 L57 CHIP
		482-5126	
14.00 Q6	108		XSTR 2SC1623 L57 CHIP
15.00 Q7	108	182-5126	XSTR 2SC1623 L57 CHIP
16.00 Q8	107	482-5125	XSTR 2SA812 M57 CHIP
17.00 Q9	108	482-5126	XSTR 2SC1623 L57 CHIP
7.00 Q10	107	482-5125	XSTR 2SA812 M57 CHIP
19.00 Q11	108	482-5126	XSTR 2SC1623 L57 CHIP
20.00 FB]	910	NOT USED	NOT USED
21.00 LD1 (SOLDER)	110	390-5308	LED SLR 34-VT3F
22.00 D1	111	481-5072	DIODE ISS184 CHIP
23.00 D2	111	481-5072	DIODE ISSI84 CHIP
24.00 D3	1 1 1	481-5072	DIODE ISSI84 CHIP
25.00 D4	111	481-5072	DIODE ISSI84 CHIP
26.00 X1	112	230-5066	XTAL OSC 32.215905M 100PPM
27.00-CN1		209-503 7	
27.10 CN1	113	209-5037-01	CONN 45P FOR GG 01
28.00 CN2	114	209-5038	CONN TOP FOR GG HDC-0492
29.00 CN3	115	212-5304	CONN 6P FOR GG 178094-6
30.00 CN4	116	212-5305	CONN 9P FOR GG 178094-9
31.00 FU1	117	514-5040	FUSE THERMAL SMO95BO
32.00 FU2	117	514-5040	FUSE THERMAL SMO95BO
3 3 .00 1	118	048-0001	EYLET 3.5*7
34.00 2	118	048-0001	EYLET 3.5*7
35.00 EM1	119	271-0007	EMI FILTER STX222MB
3.00 EM2	119	271-0007	EMI FILTER STX222NB
J7.00 EM3	119	271-0007	EMI FILTER STX222NB
38.00 EM4	119	271-0007	EMI FILTER STX222MB
39.00 EM5	119	271-0007	EMI FILTER STX222MB
40.00 EM6	119	271-0007	EMI FILTER STX222MB
41.00 EM7			EMI FILTER STX222MB
	119	271-0007	
42.00 EM8	119	271-0007	EMI FILTER STX222MB
43.00 L1	120	271-0017	BEADS INDUCTOR FBA04VA900AB-00
44.00 L3	121	180-5073	P.COIL CHIP 100UH LEM4532T101K
45.00 L2	122	180-5077	CHOKE COIL 105UII K1-1589
46.00 TI	123	560-5172	INVERTER XFMR K1-1588
47.00 VR1	124	220-5339	VOL CONT ZOKB RKO9JIITO
48.00 RI	133	476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5%
49.00 R2	133	476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5%
50.00 R3 (SOLDER) 133	476-2472-J-10	RES CHIP 4.7KOHN 1/10W 5%
51.00 R4 (SOLDER) 133	476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5%
52.00 R5 (SOLDER) 133	476-2472-J-10	RES CHIP 4.7KOHM 1/10V 5%
53.00 R6 (SOLDER) 133	476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5%
54.00 R7 (SOLDER) 141	476-2474-J-10	RES CHIP 470KOHM 1/10W 5%
55.00 R8 (SOLDER	·	476-2474-J-10	RES CHIP 470KOHM 1/10W 5%
56.00 R9 (SOLDER	-	476-2474-J-10	RES CHIP 470KOHM 1/10W 5%
57.00 R10 - (SOLDER	-	476-2474-J-10	RES CHIP 470KOHM 1/10W 5%
58.00 R11	128	476-2471-J-10	RES CHIP 470 OHM 1/10V 5%
59.00 R12 (SOLDER		476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5%
60.00 R13	132	476-2302-J-10	RES CHIP SHOUM LATON 5%
	• -		

PART NO.	:	837-7996B		
DESCRIPTION	 :	IC BD GG MAIN	EUROPE B	
INE LOCATE	סאנו	OR PART NO.	DESCRIPTION	
176.00 C70	151	151-0291	CAP CER CP	39PF 50V K SL 160
177.00 C71	151	151-0291	CAP CER CP	39PF 50V K SL 160
178.00 C72	151	151-0291	CAP CER CP	39PF 50V K SL 160
179.00 C73	151	151-0291	CAP CER CP	39PF 50V K SL 160
180.00 C74	151	151-0291	CAP CER CP	39PF 50V K ŞL 160
_ 181.00 C75	910	NOT USED	NOT USED	
182.00 C76	177	151-0307	CAP CER CP	
183.00 C77	177	151-0307	CVL CER CL	0.022UF 50V ZF212
184.00 C78	178	151-0298	CAP CER CP	100PF 50V J SL 212
185.00 C79	910	NOT USED	NOT USED	
186.00 C80	157	151-0265	CAP CER CP	0.1UF 25V ZF 212
187.00 C81	177	151-0307	CAP CER CP	0.022UF 50V ZF212
188.00 C82	179	151-0320	CAP CER CP	68PF 50V J CH 212
189.00 C83	181	151-0323	CAP CER CP	33PF 50V K SL 212
190.00 C84	182	151-0340	CAP CER CP	5PF 50V D CH 212
191.00 C85	181	151-0323	CAP CER CP	33PF 50V K SL "
192.00	930	NOTE#1	NOTE LINE	
193.00	931	NOTE#2	NOTE LINE	
194.00	932	NOTE#3	NOTE LINE	

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PART NO. : 837-7996B

		. 00		
DESCI	RIPTION	: I C	BD GG MAIN	EUROPE B
LINE LOCATE	5	DNO OR I	ART NO.	DESCRIPTION
121.00 C15	(SOLDER)	149	151-0289	CAP CER CP TOPF 50V D CH 212
122.00 C16	(SOLDER)	149	151-0289	CAP CER CP TOPF 50V D CH 212
123.00 C17		170 1		CAP TANT CHIP TUF TOV
124.00 C17		170 2	153-0086	CAP TANT CHIP LUF 16V
125.00 C18	(corpen)	155	151-0264	CAP CER CP 8200PF 50V K B 212
126.00 C19 127.00 C20	(SOLDER) (SOLDER)	157	151-0265	CAP CER CP 0.1UF 25V ZF 212
127.00 C20	(SOLDER)	170 1 170 2	153-0090 153 - 0086	CAP TANT CHIP LUF LOV
128.00 C20 129.00 C21	(SOMBIN)	170 2	153-0086	CAP TANT CHIP LUF 16V
130.00 C21		170 1	153-0090	CAP TANT CHIP JUF 10V CAP TANT CHIP JUF 16V
131.00 C22		155	151-0264	CAP CER CP 8200PF 50V K B 212
132.00 C23	(SOLDER)	170 1	153-0090	CAP TANT CHIP LUF LOV
133.00 C23	(SOLDER)	170 2	153-0086	CAP TANT CHIP TUF 16V
134.00 C24	(001121111)	154	151-0263	CAP CER CP 2200PF 50V K B 212:
135.00 C25		154	151-0263	CAP CER CP 2200PF 50V K B 212
136.00 C26		154	151-0263	CAP CER CP 2200PF 50V K B 2121
137.00 C27	•	154	151-0263	CAP CER CP 2200PF 50V K B 212
- 138.00 C28		154	151-0263	CAP CER CP 2200PF 50V K B 2121
139.00 C29		154	151-0263	CAP CER CP 2200PF 50V K B 2121
140.00 C30		154	151-0263	CAP CER CP 2200PF 50V K B 212!
141.00 C31		167	150-0313	CAP E CHIP 100UF 6.3V M
142.00 C32 143.00 C33		169 159	152-0177 151-0272	CAP MP 0.1UF 100V 10% CAP CER 270PF 2KV SL
144.00 C34		157	151-0265	CAP CER CP 0.1UF 25V ZF 212!
145.00 C35		162	150-0307	CAP E CHIP 4.7UF 35V
146.00 C36		157	151-0265	CAP CER CP 0.1UF 25V ZF 212
147.00 C37		166	150-0318	CAP E CHIP GBUF G.3V
148.00 C38		157	151-0265	CAP CER CP 0.1UF 25V ZF 2125
149.00 C39		168	150-0319	CAP E CHIP 100UF 4V
150.00 C40		157	151-0265	CAP CER CP 0.1UF 25V ZF 2125
151.00 C41		157	151-0265	CAP CER CP 0.1UF 25V ZF 212
152.00 C42		156	151-0271	CAP CER CP 0.01UF 50V ZF 212!
153.00 C43 154.00 C44		156	151-0271	CAP CER CP 0.01UF 50V ZF 212
154.00 C44 155.00 C45		161 161	150-0317 150-0317	CAP E CHIP 0.47UF 50V
156.00 C46		152	151-0270	CAP E CHIP 0.47UF 50V CAP CER CP 47PF 50V K SL 212!
157.00 C17		152	151-0270	CAP CER CP 47PF 50V K SL 212!
158.00 C48		163	150-0308	CAP E CHIP TOUF 6.3V N
159.00 C49		164	150-0309	CAP E CHIP 22UF 6.3V M
160.00 C50		157	151-0265	CAP CER CP 0.1UF 25V ZF 2125
161.00 C51		157	151-0265	CAP CER CP 0.1UF 25V ZF 212!
162.00 C52		160	151-0286	CAP CER CHIP 0.47UF 16V Z F
. 163.00 C53		160	151-0286	CAP CER CHIP 0.47UF IGV Z F
164.00 C58	(SOLDER)	153	151-0290	CAP CER CP 1200PF 50V K B 2125
165.00 C59		151	151-0291	CAP CER CP 39PF 50V K SL 1608
166.00 C60		151	151-0291	CAP CER CP 39PF 50V K SL 1608
. 167.00 C61		151	151-0291	CAP CER CP 39PF 50V K SL 1600
168.00 C62		151	151-0291	CAP CER CP 39PF 50V K SL 1608
169.00 C63		151	151-0291	CAP CER CP 391'F 50V K SL 1608
170.00 C64 171.00 C65		151 151	151-0291	CAP CER CP 39PF 50V K SL 1608 CAP CER CP 39PF 50V K SL 1608
171.00 C65 172.00 C66		151	151-0291 151-0291	CAP CER CP 39PF 50V K SL 1608
172.00 C60 173.00 C67		151	151-0291	CAP CER CP 39PF 50V K SL 1608
174.00 C68		151	151-0291	CAP CER CP 39PF 50V K SL 1608
175.00 C69	(SOLDER)	150	151-0288	CAP CER CP 39PF 50V K SL 2121

PART NO. : 837-7996
DESCRIPTION : IC BD GG MAIN EUROPE

INE	LOCATE	DNO OR	PART NO.	DESCRIPTION	
173.00	C67	151	151-0291	CAP CER CP	39PF 50V K SL 160
174.00	C68	151	151-0291	CAP CER CP	39PF 50V K SL 160
175.00	C69 (SOLDER)	150	151-0288	CAP CER CP	39PF 50V K SL 212
176.00	C70	151	151-0291	CAP CER CP	39PF 50V K SL 160
177.00		151	151-0291	CAP CER CP	-39PF 50V K \$L 160
178.00		151	151-0291	CAP CER CP	39PF 50V K SL 160
179.00		151	151-0291	CAP CER CP	39PF 50V K SL 160
180.00		151	151-0291	CAP CER CP	39PF 50V K SL 160
181.00		180	151-0322		120PF 50V J CH 160
182.00		177	151-0307		0.022UF 50V ZF212
183.00		177	151-0307		0.022UF 50V ZF212
184.00		178	151-0298		100PF 50V J SL 212
185.00		178	NOT USED	NOT USED	
186.00		157	151-0265	CAP CER CP	0.1UF 25V ZF 212
187.00		177	151-0307		0.022UF 50V ZF212
188.00		179	151-0320	CAP CER CP	68PF 50V J CH 211
189.00		181	151-0323		33PF 50V K SL 2
190.00		182	151-0340		5PF 50V D CH 212
191.00	C85	181	151-0323		33PF 50V K SL 212
192.00		930	NOTE#1	NOTE LINE	
193.00		931 932	NOTE#2 NOTE#3	NOTE LINE	
25,7,00		J J L	1015#3	HOLE DINE	

PART NO.	: 837-7996	
DESCRIPTI		IN EURORE
LINE LOCATE	DNO OR PART NO.	DESCRIPTION
116.00 C9 (SOLDE 117.00 C10 (SOLDE		CAP CER CP 0.33UF 25V Z F 3216
118.00 C11 (SOLDE		CAP CER CP 0.33UF 25V Z F 3216 CAP CER CP 0.33UF 25V Z F 3216
119.00 C12 (SOLDE		CAP CER CP 0.1UF 25V ZF 2125
120.00 C14	157 151-0265	CAP CER CP 0.1UF 25V ZF 2125
121.00 C15 (SOLDE	R) 149 151-0289	CAP CER CP TOPF 50V D CH 2125
121.10 C16 (SOLDE	·	CAP CER CP 10PF 50V D CH 2125
	R-)1-7-61-5-1-0-1-0	
123.00 C17 124.00 C17	170 1 153-0090 170 2 153-0086	CAP TANT CHIEF THE TOV
125.00 C18	170 2 153-0086 155 151-0264	CAP TANT CHIP LUF 16V CAP CER CP 8200PF 50V K B 2125
126.00 C19 (SOLDE		CAP CER CP 0.1UF 25V ZF 2125
127.00 C20 (SOLDE	•	CAP TANT CHIP HUF LOV
128.00 C20 (SOLDE		CAP TANT CHIP JUF 16V
129.00 C21	170 1 153-0090	CAP TANT CHIP BUF 10V
130.00 C21	170 2 153-0086	CAP TANT CHIP LUF 16V
31.00 C22 -132.00 C23 (SOLDE	155 151-0264	CAP CER CP 8200PF 50V K B 2125
133.00 C23 (SOLDE		CAP TANT CHIP LUF LOV CAP TANT CHIP LUF 16V
134.00 C24	154 151-0263	CAP CER CP 2200PF 50V K B 2125
135.00 C25	154 151-0263	CAP CER CP 2200PF 50V K B 2125
_ 136.00 C26	154 151-0263	CAP CER CP 2200PF 50V K B 2125
137.00 C27 138.00 C28	154 151-0263	CAP CER CP 2200PF 50V K B 2125
139.00 C29	154 151-0263 154 151-0263	CAP CER CP 2200PF 50V K B 2125 CAP CER CP 2200PF 50V K B 2125
140.00 C30	154 151-0263	CAP CER CP 2200PF 50V K B 2125
141.00 C31	167 150-0313	CAP E CHIP 100UF 6.3V M
142.00 C32	169 152-0177	CAP MP 0.1UF 100V 10%
143.00 C33	159 151-0272	CAP CER 270PF 2KV SL
144.00 C34	157 151-0265	CAP CER CP 0.1UF 25V ZF 2125
145.00 C35 146.00 C36	162 150-0307 157 151-0265	CAP E CHIP 4.7UF 35V CAP CER CP 0.1UF 25V ZF 2125
147.00 C37	166 150-0318	CAP CER OF 0.10F 23V ZF 212C
148.00 C38	157 151-0265	CAP CER CP 0.1UF 25V ZF 2125
149.00 C39	168 150-0319	CAP E CHIP 100UF 4V
50.00 C40	157 151-0265	CAP CER CP 0.1UF 25V ZF 2125
151.00 C41	157 151-0265	CAP CER CP 0.1UF 25V ZF 2125
152.00 C42 153.00 C43	156 151-0271	CAP CER CP 0.01UF 50V ZF 212F
153.00 C43	156 151-0271 161 150-0317	CAP CER CP 0.01UF 50V ZF 2125 CAP E CHIP 0.47UF 50V
155.00 C45	161 150-0317	CAP E CHIP 0.470F 50V
156.00 C46	152 151-0270	CAP CER CP 47PF 50V K SL 212!
157.00 C47	152 151-0270	CAP CER CP 47PF 50V K SL 212F
158.00 C48	163 150-0308	CAP E CHIP TOUF 6.3V M
159.00 C49	164 150-0309	CAP E CHIP 22UF 6.3V M
160.00 C50	157 151-0265	CAP CER CP 0.1UF 25V ZF 212!
161.00 C51 162.00 C52	157 151-0265 160 151-0286	CAP CER CP 0.1UF 25V ZF 2121 CAP CER CHIP 0.47UF 16V Z F
163.00 C53	160 151-0286	CAP CER CHIP 0.470F 16V Z F
164.00 C58 (SOLDE		CAP CER CP 1200PF 50V K B 212
165.00 C59	151 151-0291	CAP CER CP 39PF 50V K SL 1608
166.00 C60	151 151-0291	CAP CER CP 39PF 50V K SI, 160
167.00 C61	151 151-0291	CAP CER CP 39PF 50V K SL 1607
168.00 C62 169.00 C63	151 151-0291 151 151-0291	CAP CER CP 39PF 50V K SL 1608 CAP CER CP 39PF 50V K SL 1608
170.00 C64	151 151-0291	CAP CER CP 39PF 50V K SL 1607
171.00 C65	151 151-0291	CAP CER CP 39PF 50V K SL 1607
172.00 C66	151 151-0291	CAP CER CP 39PF 50V K SL 160:

PART NO. : 837-7996

IC BD GG MAIN EUROPE DESCRIPTION DNO OR PART NO. DESCRIPTION LINE LOCATE 56.00 R9 (SOLDER) 476-2474-J-10 RES CHIP 470KOHM 1/10W 5% 141 1/10W 57.00 RIQ (SOLDER) 476-2474-J-10 141 RES CHIP 470KOHM 58.00 R11 476-2471-J-10 128 RES CHIP 470 OHM 1/IOW 5% 59.00 R12 (SOLDER) 133 476-2472-J-10 4.7KOHM 1/10W 5% RES CHIP 476-2302-J-10 60.00 R13 132 5% RES CHIP **ЗКОНМ** 1/10W 61.00 R14 126 476-2201-J-10 1/10W 5% RES CHIP 200 OHM 1/10W 62.00 R17 133 476-2472-J-10 RES CHIP 4.7KOHM 5% 63.00 R18 134 476-2103-J-10 RES CHIP LOKOHM 1/10W 5% 64.00 R20 129 476-2102-J-10 1/10W (SOLDER) RES CHIP 5% J KOHM 65.00 R21 (SOLDER) 129 476-2102-J-10 1/10W 5% RES CHIP FROHM 66.00 R22 134 476-2103-J-10 (SOLDER) RES CHIP TOROHM 1/10W 5% 67.00 R23 (SOLDER) 129 476-2102-J-10 RES CHIP TROUM 1/10W 5% 68.00 R24 476-2102-J-10 (SOLDER) 129 RES CHIP 1/10W TROHM 5% 69.00 R25 476-2103-J-10 (SOLDER) 134 RES CHIP 1/108 5% 10KOHM70.00 R26 476-2473-J-10 138 RES CHIP 47KOHM 1/IOW 5% 71.00 R27 138 476-2473-J-10 1/10W RES CHIP 47KOHM 5% NOT USED 72.00 **R28** 910 NOT USED 73.00 R29 130 476-2182-J-10 RES CHIP 1.8KOHM I/IOW 5% 74.00 R30 130 476-2182-J-10 RES CHIP 1.8KOHM 1/10W 5% 75.00 R31 139 476-2104-J-10 1/10W RES CHIP LOOKOHM 5% 76.00 R32 139 476-2104-J-10 RES CHIP **100KOHM** 1/10W 5% 77.00 R33 172 476-2303-J-10 1/10W RES CHIP 30KOHM 5% 78.00 R34 135 476-2203-J-10 RES CHIP **20KOHM** 1/10W 5% 79.00 R35 1.25 476-2510-J-10 RES CHIP 1/10W 5% 5 I OHM 80.00 R36 148 476-2563-F-10 RES CHIP **56KOHM** 1/10W 1% 81.00 R37 146 476-2303-F-10 RES CHIP 1% **30KOHM** 1/10W 82.00 R38 125 476-2510-J-10 RES CHIP 1/10W 5% 5.1 OHM 83.00 R39 143 476-2471-F-10 RES CHIP 470 OHM 1/10W 1% 84.00 R40 143 476-2471-F-10 RES CHIP 470 OHN 1/10W 1% 85.00 R41 131 476-2222-J-10 RES CHIP 2.2KOHM 1/10W 5% 86.00 R42 140 476-2244-J-10 RES CHIP 1/10W 5% 240KOHM 87.00 R43 136 476-2223-J-10 1/10W RES CHIP 5% 22KOHM 88.00 R44 136 476-2223-J-10 5% RES CHIP 22KOHM 1/10W 89.00 R45 142 476-2105-J-10 RES CHIP MIIOMI I/IOW 5% 90.00 R46 136 476-2223-J-10 RES CHIP 22KOHM 1/10W 5% 91.00 R47 136 476-2223-J-10 RES CHIP **22KOHM** 1/10W 5% 92.00 R48 RES CHIP 134 476-2103-J-10 1/low 5% (SOLDER) LOKOHM 476-2103-J-10 93.00 R49 (SOLDER) 134 RES CHIP TOKOHM 1/10W 5% 94.00 R50 174 476-2912-F-10 RES CHIP 9.1KOHM 1/10W 1% 95.00 R51 173 476-2112-F-10 RES CHIP 1% 1.1KOHM 1/10W 96.00 R52 476-2302-F-10 175 RES CHIP 3KOIIM 1/10W 1% 97.00 R53 476-2122-J-10 171 (SOLDER) RES CHIP 1.2KOHM 1/10W 5% 98.00 R54 127 476-2221-J-10 RES CHIP 220 OHM 1/10W 5% 99.00 R55 127 476-2221-J-10 RES CHIP 220 OHM I/10W 100.00 R56 127 476-2221-J-10 220 OHM RES CHIP 1/10W 5% 101.00 R57 127 476-2221-J-10 RES CHIP 220 OHM 1/10W 5% 102.00 R58 127 476-2221-J-10 RES CHIP 220 OHM 1/10W 5% 103.00 R59 127 476-2221-J-10 RES CHIP 220 OHM 1/10W 5% 104.00 R60 127 476-2221-J-10 220 OHM 1/10W (SOLDER) RES CHIP 105.00 R61 476-2221-1-10 127 RES CHIP 220 OHM (SOLDER) I/IOW 5% 476-2221-J-10 106.00 R62 (SOLDER) 127 RES CHIP 220 OHM 1/10W 5% 107.00 R63 127 476-2221-J-10 RES CHIP 220 OHN 1/10W 5% (SOLDER) NOT USED NOT USED 108.00 RG4 910 33UF 6.3V M 109.00 C1 165 150-0311 CAP E CHIP 150-0308 CAP E CILIP LOUF G.3V M 110.00 C3 163 0.1UF 25V 7.F 21: 111.00 C4 CAP CER CP 157 151-0265 0.1UF 25V ZF 212 157 151-0265 CAP CER CP 112.00 C5 CAP E CHIP TOUF 6.3V M 113.00 CG 163 150-0308 0.1UF 25V ZF 151-0265 CAP CER CP 212 157 114.00 C7

158

(SOLDER)

1 15.00 C8

151-0266

CAP CER CP 0.33UF 25V Z F 321

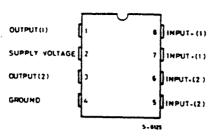
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		•		C BD GG MAIN	FUROPE
				PART NO.	·
	JINE LOCAT		1	171-6101A	DESCRIPTION PC BD GG MAIN EUROPE
	2.00 IC1		101	315-0545	IC Z80A C-MOS SOP TMP84C00AM
	3.00 IC2		102	315-5377	IC CUSTOM CHIP VDP GG QFP
	4.00 1C3		103	315-5378A	IC CUSTOM CHIP SCA GG QFP
	5.00 1C4		104 1	315-0546	IC UPD4364G-15L SOP 28P
	6.00 IC4		104 2	315-0611	IC FCB61C65L-70T SOP 28P
	7.00 105	(SOLDER)	105	315-0547	1C HM65256BLFP-12 SOP 28P
-	8.00 106	(SOLDER)	106	313-5134	1C UPC358G2 SOP 8P
	9.00 Q1 10.00 Q2		108 910	482-5126 NOT USED	XSTR 2SC1623 L57 CHIP NOT USED
	11.00 Q3	(SOLDER)	109	482-5127	XSTR 2SD1614 CHIP
	12.00 Q4	(SOLDER)	109	482-5127	XSTR 2SD1614 CHIP
	13.00 Q5	(= = = = = = = = = = = = = = = = = = =	108	482-5126	XSTR 2SC1623 L57 CHIP
	14.00 Q6		108	482-5126	XSTR 2SC1623 L57 CHIP
	15.00 Q7		108	482-5126	XSTR 2SC1623 L57 CHIP
	16.00 Q8		107	482-5125	XSTR 2SA812 M57 CHIP
	17.00 Q9		108	482-5126	XSTR 2SC1623 L57 CHIP
	18.00 Q10		107	482-5125	XSTR 2SA812 M57 CHIP
	19.00 Q11 20.00 FB1		108 910	482-5126 NOT USED	XSTR 2SC1623 L57 CHIP NOT USED
	21.00 LD1	(SOLDER)	110	390-5308	LED SLR 34-VT3F
	22.00 D1	(======,	111	481-5072	DIODE ISSI84 CHIP
	23.00 D2		111	481-5072	DIODE 188184 CHIP
	24.00 D3		111	481-5072	DIODE 188184 CIIII
	25.00 D4		111	481-5072	DIODE 188184 CHIP
	26.00 X1 -27.00 CN1		112	230-5066 -208-5037	XTAL OSC 32.215905M 100PPM
	27.10 CN1		113		CONN 45P FOR GG 01
	28.00 CN2		114	209-5038	CONN 10P FOR GG HDC-0492
	29.00-CN3-				OHANGE-TO -212-5304 ····
	30-00-GN4		116		
	30.10 CN3		115	212-5304	CONN 6P FOR GG 178094-6
	30.20 CN4 31.00 FU1		116		CONN 9P FOR GG 178094-9 FUSE THERMAL SMO95BO
• • •	32.00 FU2		3.3.7 117	514-5040 514-5040	FUSE THERMAL SMO95BO
	33.00 1		118	048-0001	EYLET 3.5*7
	34.00 2		118	048-0001	EYLET 3.5*7
	35.00 EM1		119	271-0007	EMI FILTER STX222MB
	36.00 EM2		119	271-0007	EMI FILTER STX222MB
	37.00 EM3		119	271-0007	ENI FILTER STX222MB
	38.00 EM4 39.00 EM5		119	271-0007	EMI FILTER STX222MB EMI FILTER STX222MB
•	40.00 EM6		119 119	271-0007 271-0007	EMI FILTER STX222MB
	41.00 EM7		119	271-0007	EMI FILTER STX222MB
	42.00 EM8		119	271-0007	EMI FILTER STX222NB
	43.00 L1		120	271-0017	BEADS INDUCTOR FBA04VA900AB-
	44.00 L3		121	180-5073	P.COIL CHIP 1000H LEN4532T10
	45.00 L2		122	180-5077	CHOKE COIL 105UH K1-1589
	46.00 T1		123	560-5172	INVERTER XFMR K1-1588
	47.00 VR1 48.00 RI		124 133	220-5339	VOL CONT 20KB RKO9JIITO
	49.00 R2		133	476-2472-J-10 476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5% RES CHIP 4.7KOHM 1/10W 5%
	50.00 R3	(SOLDER)	133	476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5%
	51.00 R4	(SOLDER)	133	476-2472-J-10	RES CHIP 4.7KOHN 1/10W 5%
	52.00 R5	(SOLDER)	133	476-2472-J-J0	RES CHIP 4.7KOHM 1/10W 5%
	53.00 R6	(SOLDER)	133	476-2472-J-10	RES CHIP 4.7KOHM 1/10W 5%
	54.00 R7 55.00 R8	(SOLDER)	141	476-2474-J-10	RES CHIP 470KOHM 1/10W 5%
	ουνούο πο	(SOLDER)	141	476-2474-J-10	RES CHIP 470KOHM 1/10W 5%

GAME GEAR

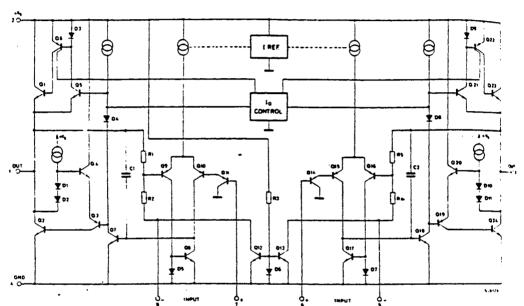
EUROPE

PARTS LIST OF PCB

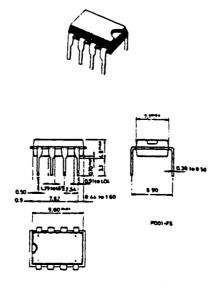
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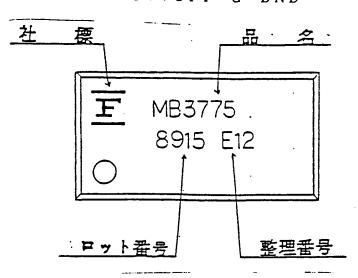


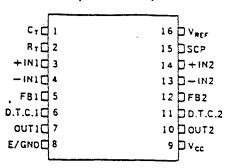
SCHEMATIC DIAGRAM

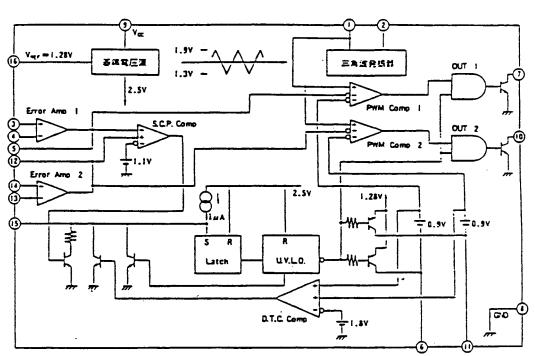


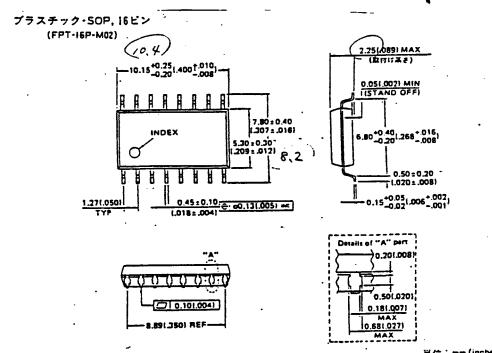
8 lead Plastic Minidip 4 + 4 lead Powerdip

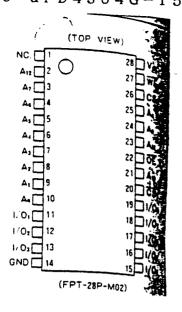


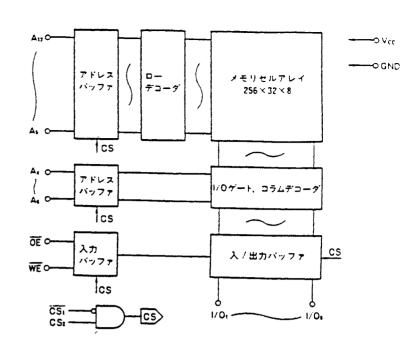






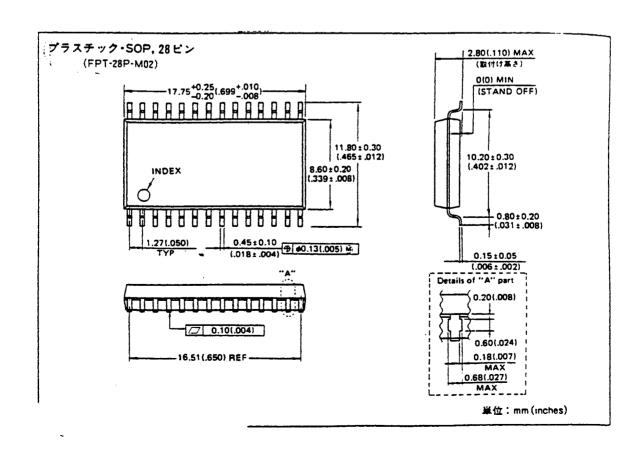




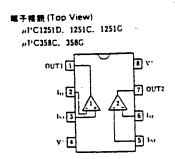


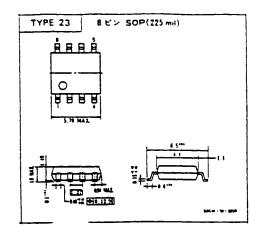


(FPT-28P-M02)

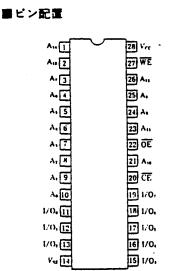


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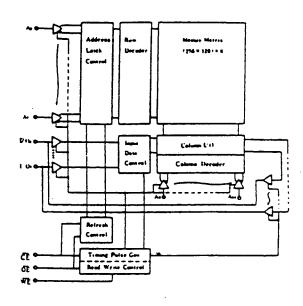


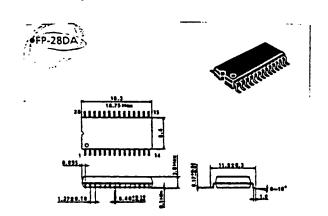


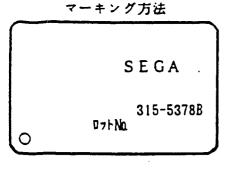
MAIN BOARD IC5 1/1 IC HM6256BLFP-12

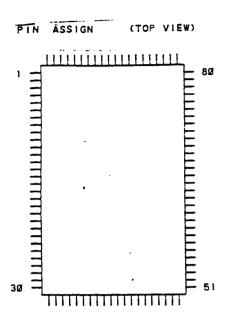


■ブロックダイアグラム

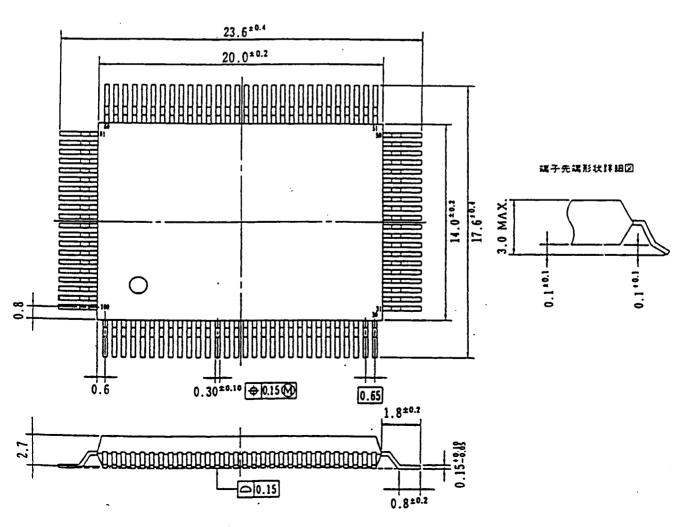


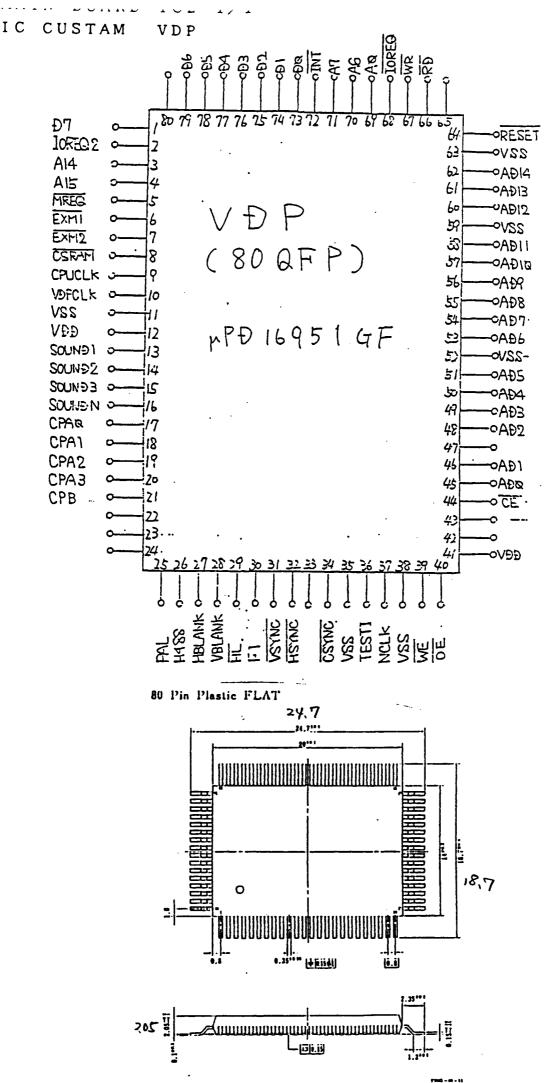






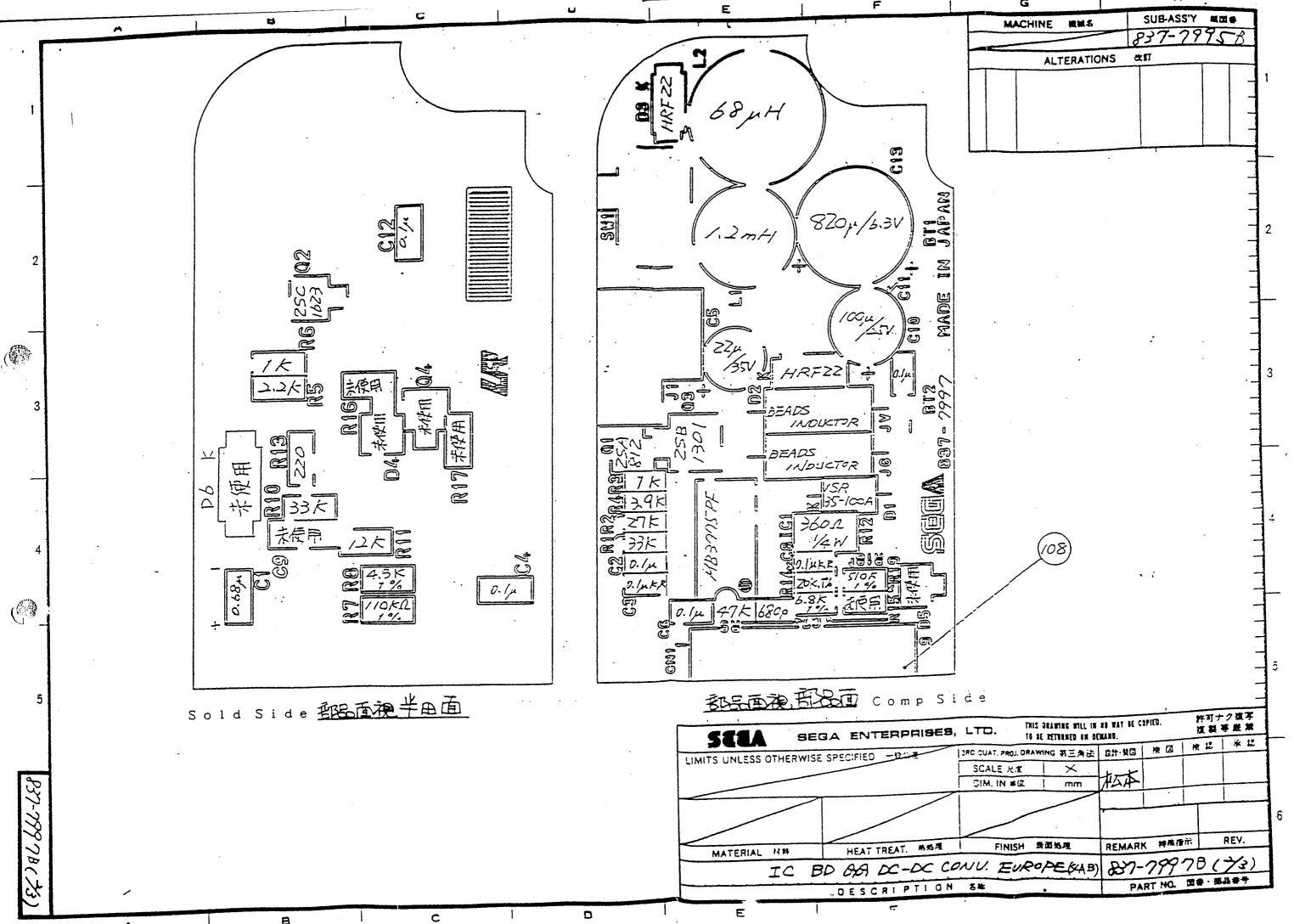
PIN NO.	PIN NAME	PIN NO.	PIN NAME	PIN NO.	PIN NAME	PIN NO	PIN NAME
1	GND	26	RESO	51	DW	76	PC4
2	VDD	27	NLED	52	OOV	77	PC5
3	XTL1	28	GND	53	GND	78	PC6
4	XTL2	29	VDD	54	CLBI	79	VDD
5	CCLK	3Ø	VREF	55	CLAI	80	GND
6	VCLK	31	VONF	56	CLB2	81	D 7D
7	NUP	32	VRES	57	CLA2	82	DED
8	NDW	33	SNDN	. 58	CLB3	83	D5C
9	NLE	34	SND3	59	CLA3	84	D4P
10	NRI	35	SND2	62	TPRI	85	D3P
11	NTL	36	SND1	61	TPR2	86	D2P
12	NTR	37	SNDL	62	Α	87	DIP
13	NPS	38	SNDR	63	SAMP	88	DØD
14	CPAØ	39	TEST	64	NLCD	89	AAR2
15	CPAI	40	GND	65	NTV	.90	A9RI
16	CPA2	41	DB	66	NGG	91	A8A3
17	CPA3	42	P3	67	NNMI	92	A7B3
18	СРВ	43	P2	68	NM1	93	A6A2
19	NTSC	44	P4	69	IORQ	94	A5B2
20	H488	45	PI	70	NWR	95	A4A1
21	HBNK	46	CL2 ·	71	NRD	96	A3B1
22	VBNK	47	D02	72	PCØ	97	A2DW
23	NHL	48	D04	73	PC1	98	A1D3
24	NJAP	49	DO 1	74	PC2	99	AØDI
25	SPON	5Ø	003	75	PC3	100	XCLK

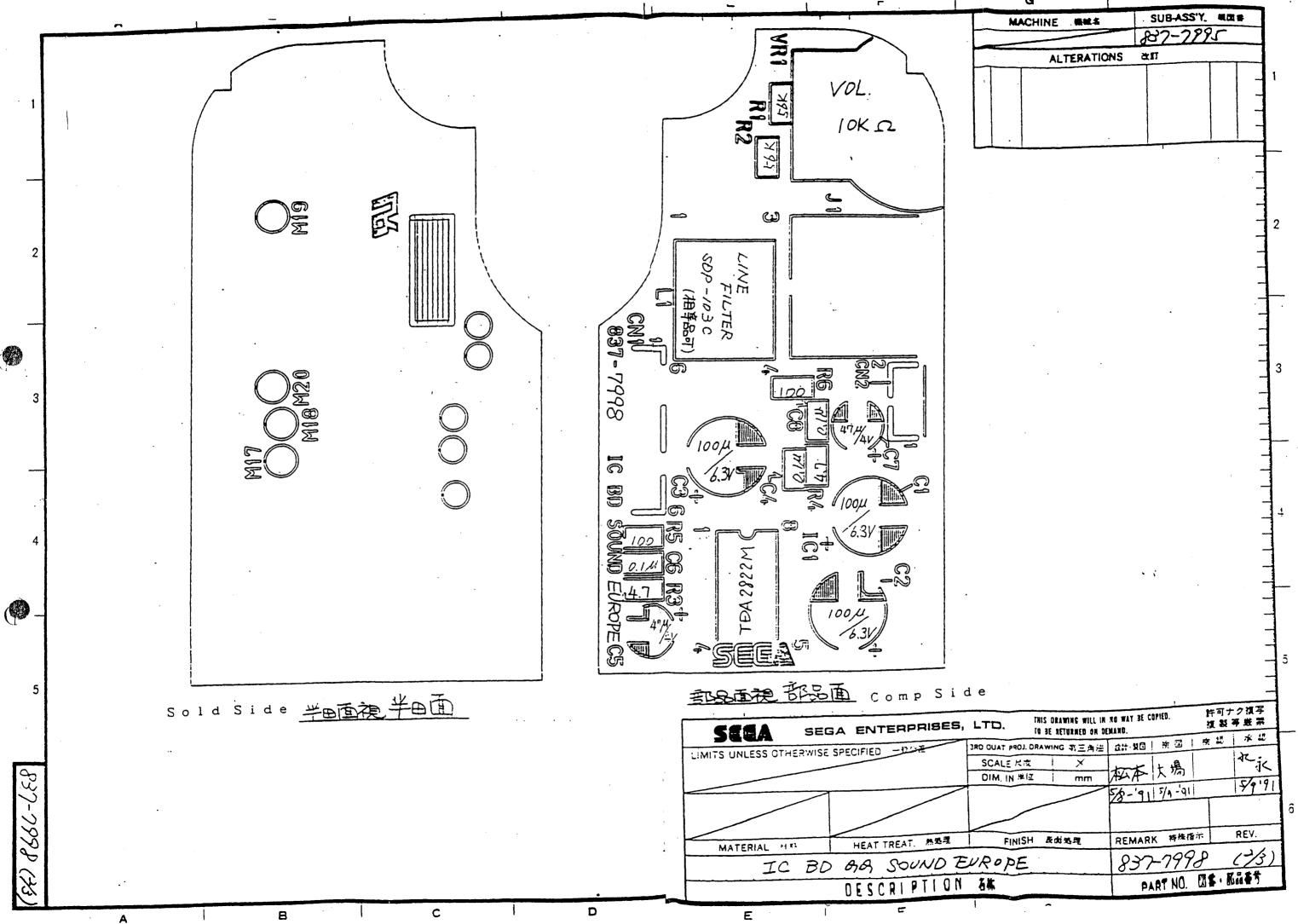


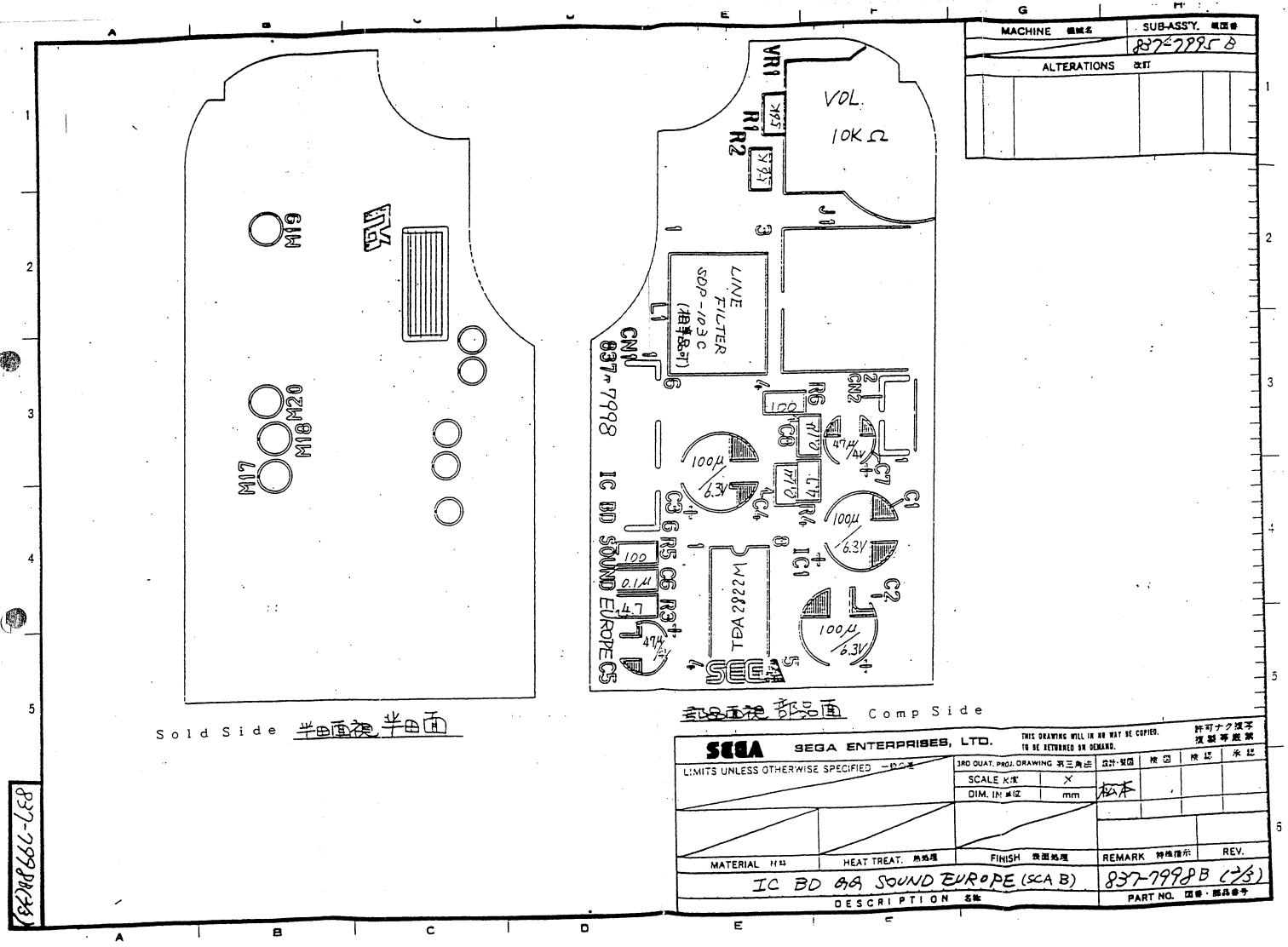


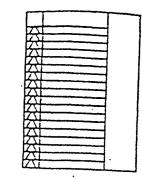
PART NO. : 837-7998
DESCRIPTION : IC BD GG SOUND EUROPE

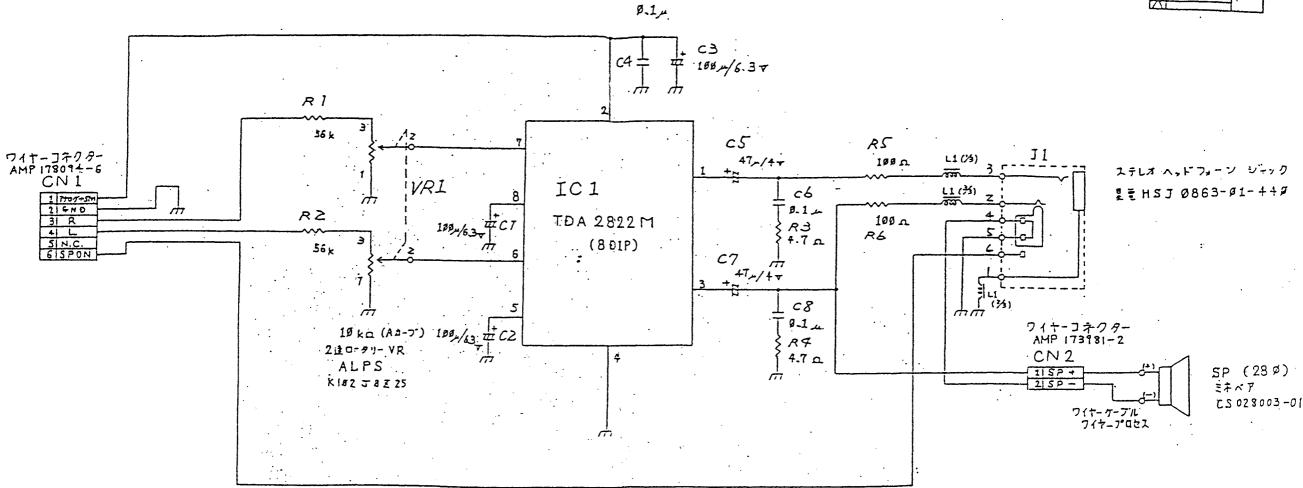
LINE	LOCATE	DNO OR	PART NO.	DESCRIPTION
1.00		1	171-6103A	PC BD GG SOUND EUROPE
2.00	J 1	102	210-5061	CONN MINI JACK HSJ0873-01-440
3.00	CN1	103	600-5910	WIRE HARN GP FOR GG GOMM
1 : 0 0 -	-CN2	101	209-5040	- CHANGE- TO-2-1-2-5-30-1-02
4.10	CN2	104	212-5301-02	CONN M MT AMP CT 2P 173981-2
5.00	VR1	105	220-5343	SW VOL CONT 10KOHM K102J0Z25
6.00	IC1	101	313-5141	IC TDA2822M
7.00	R1	108	476-2563-J-10	RES CHIP 56KOHM 1/10W 5%
8.00	R2	108	476-2563-J-10	RES CHIP 56KOHM 1/10W 5%
9.00	R3	106	476-24R7-J-10	RES CHIP 4.7 OHM 1/10W 5%
10.00	R4	106	476-24R7-J-10	RES CHIP 4.7 OHM 1/10W 5%
11.00	R5	107	476-2101-J-10	RES CHIP 100 OHM 1/10W 5%
12.00	R6	107	476-2101-J-10	RES CHIP 100 OHM 1/10W 5%
13.00	C1	111	150-0313-01	CAP E CP 100UF 6.3V MV6.3VC10
14.00		111	150-0313-01	CAP E CP 100UF 6.3V MV6.3VC10
15.00	-	111	150-0313-01	CAP E CP 100UF 6.3V MV6.3VC10
16.00		109	151-0265	CAP CER CP 0.1UF 25V ZF 212
17.00		110	150-0312-01	CAP E CP 47UF 4V MV4VC47
18.00		109	151-0265	CAP CER CP 0.1UF 25V ZF 212
19.00		110	150-0312-01	CAP E CP 47UF 4V MV4VC47
20.00		109	151-0265	CAP CER CP 0.1UF 25V ZF 212
21.00	LF1	112	270-5044	LINE FILTER(SDP-103C)





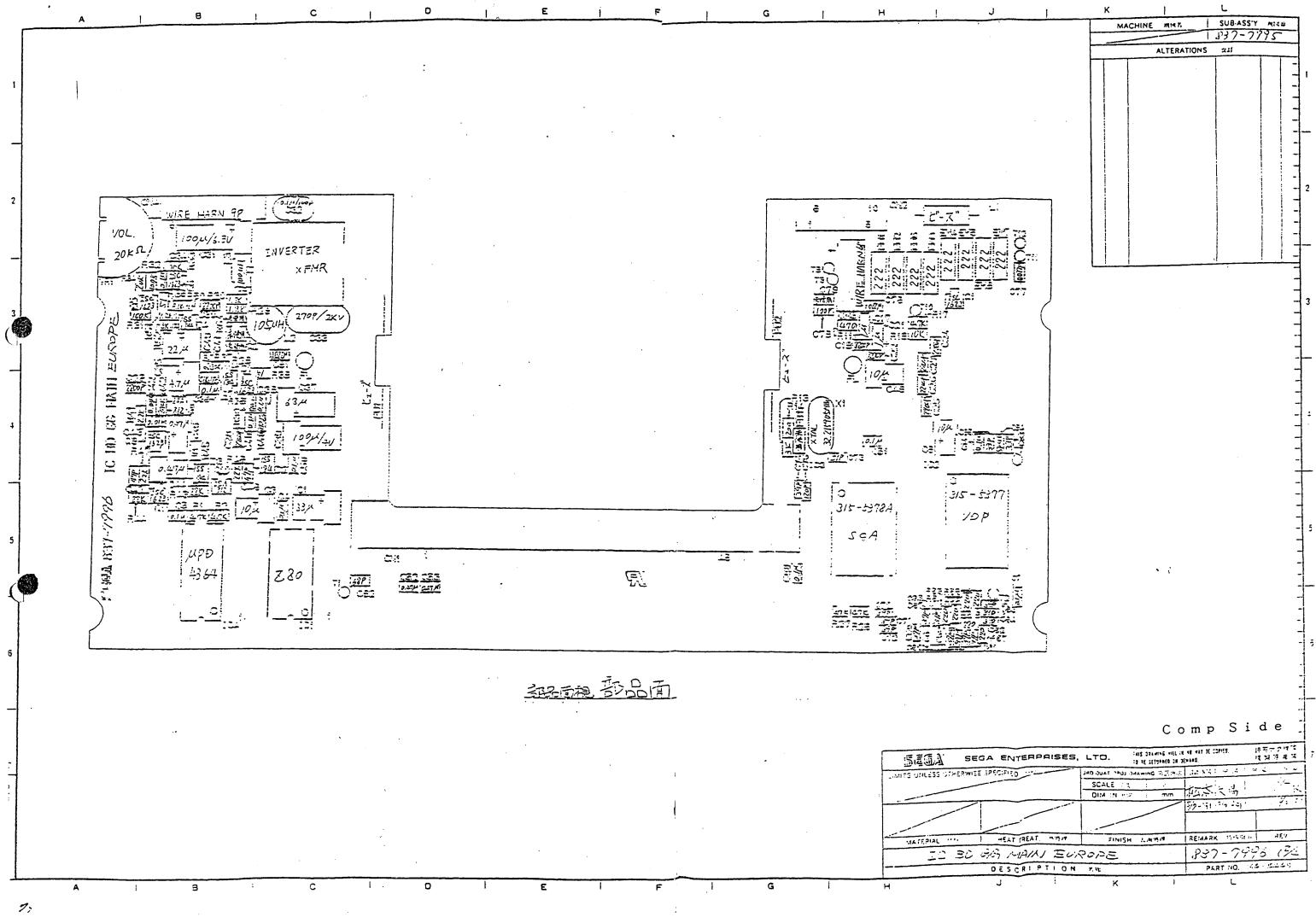


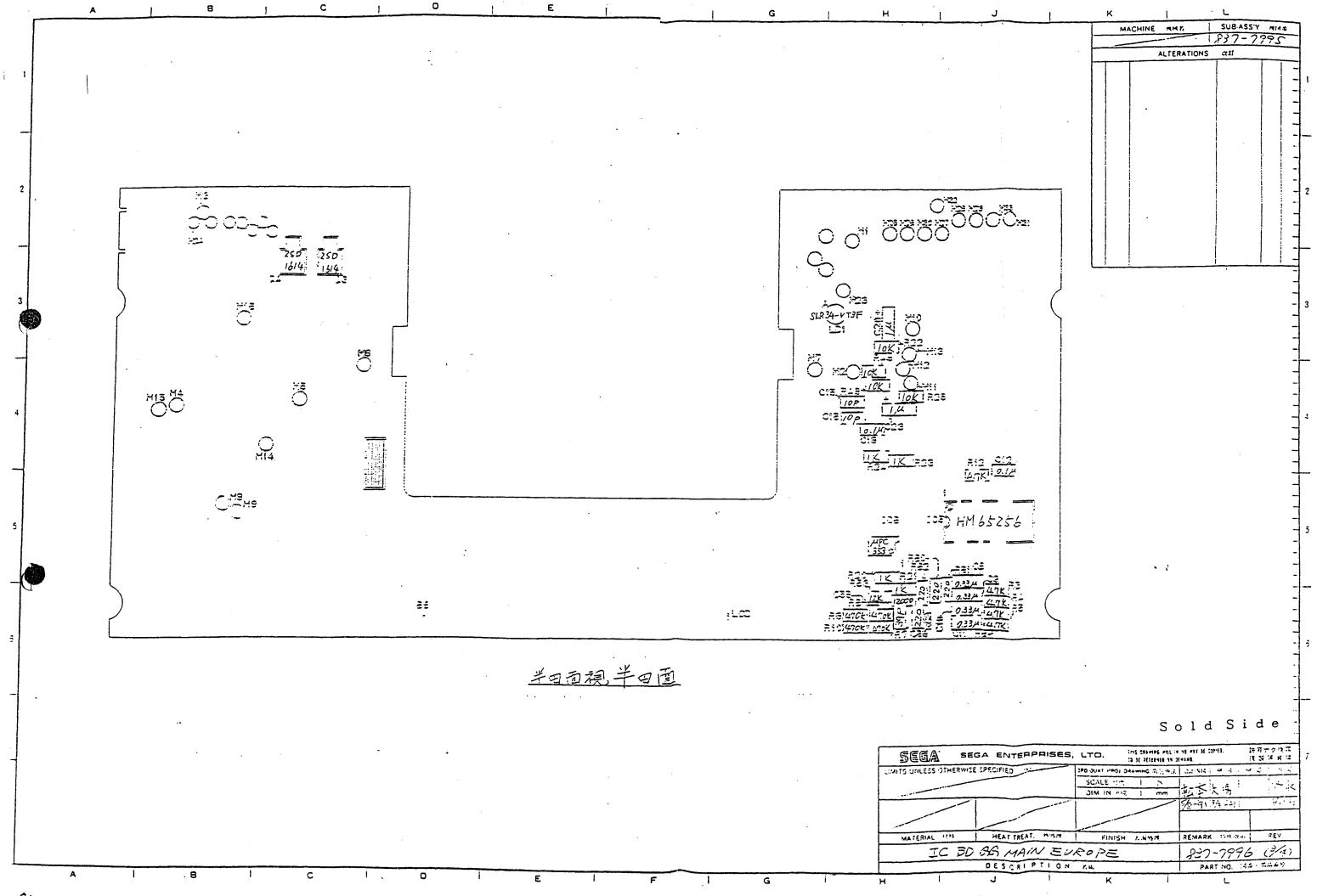


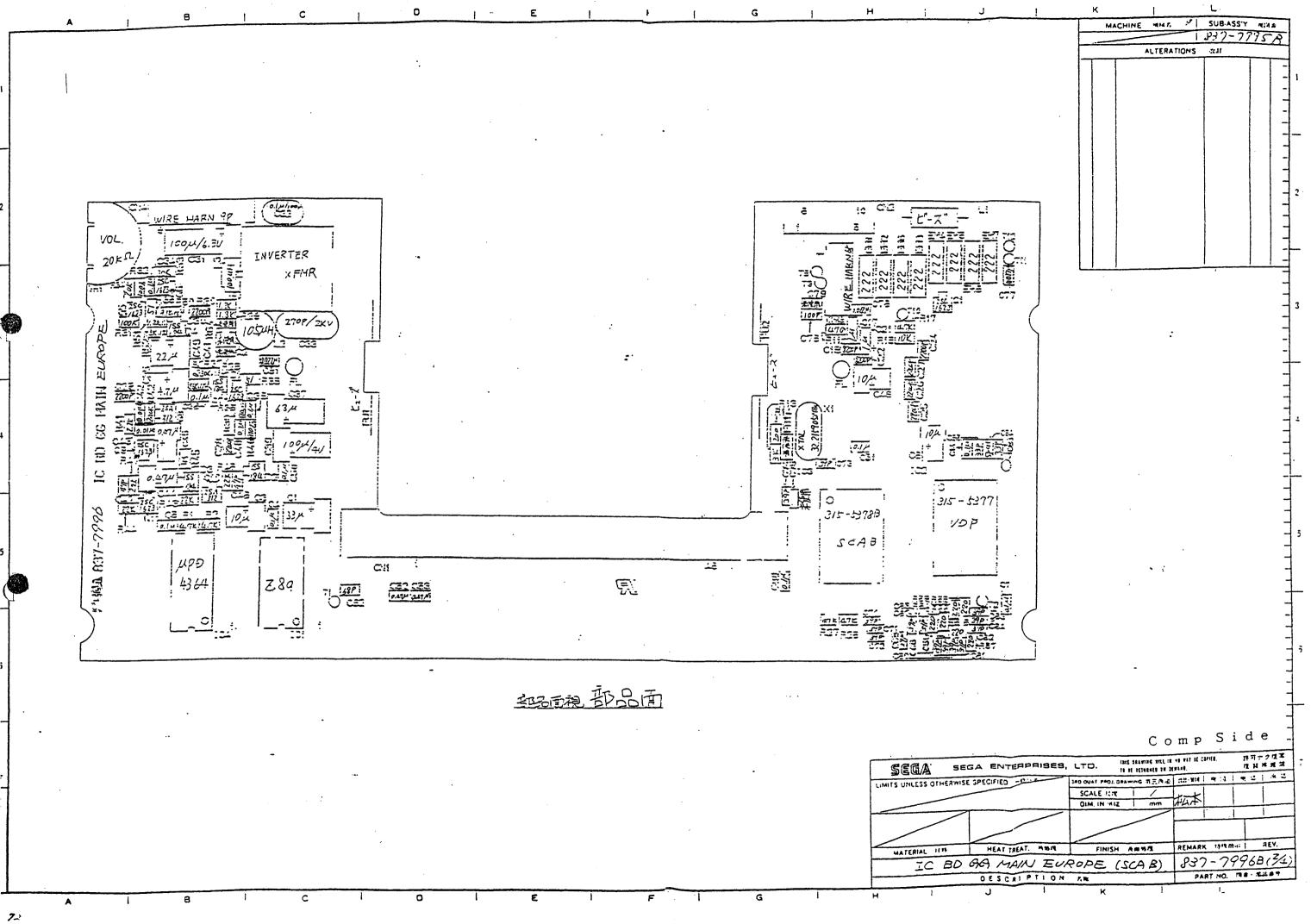


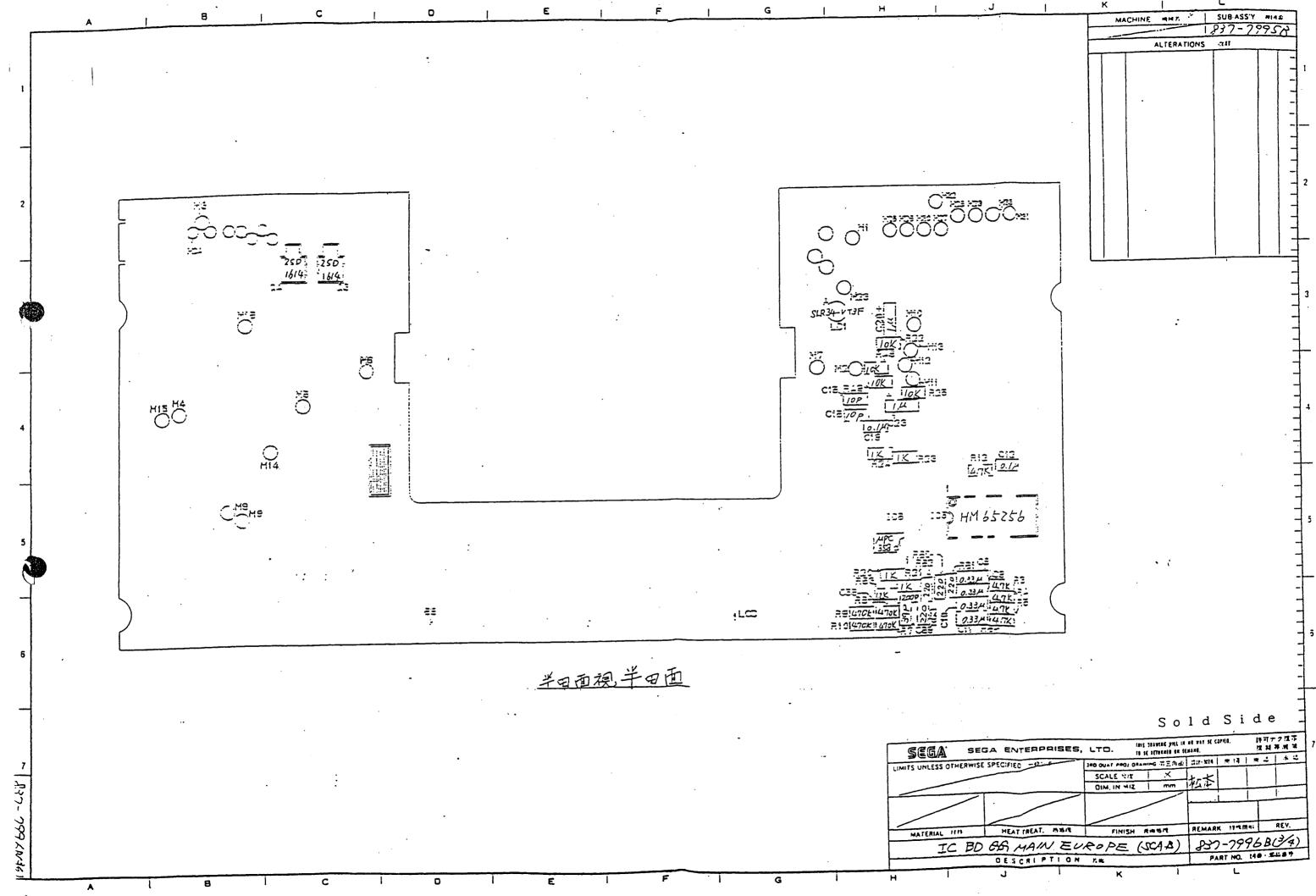
IC BD GA SOUND EUROPE 8 837-7998 BOS-55734 BA

171-51032
REV
H4.65
or9
4047
N.









PART NO. : 837-7997

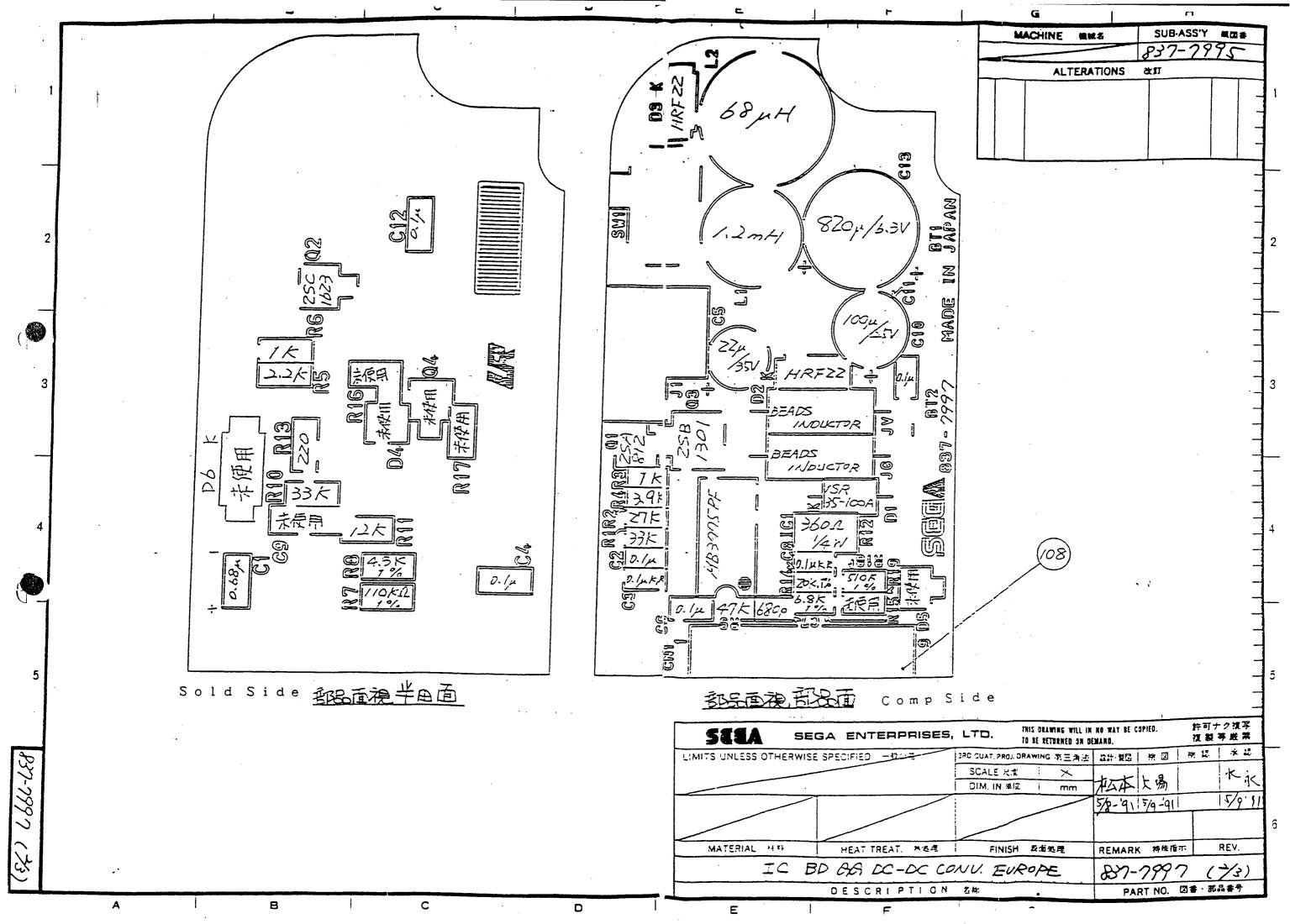
DESCRIPTION : IC BD GG DC-DC CONV. EUROPE

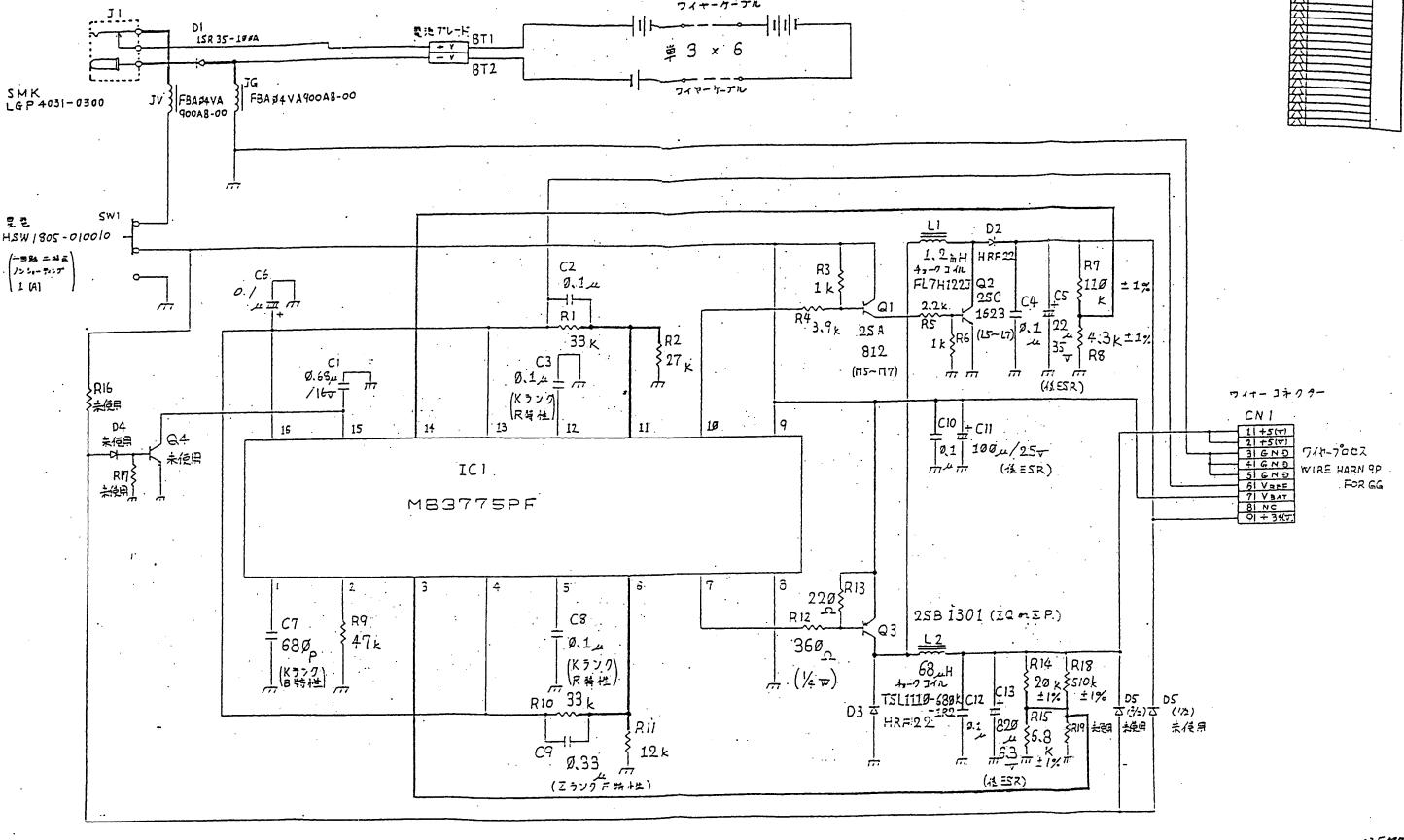
1.00	LINE	LOCAT	Е	DNO OR	PART NO.	DESCRIPTION
3.00 CM 108	1.00			1	171-6102A	PC BD GG DC-DC CONV.EUROPE
3.00 CM 108	2.00	J1		111	210-5062	CONN DC JACK W/SW LGP4031-0300
4.00 SWI	3.00	CNI		108	600-5911	WIRE HARN 9P FOR GG GOMM
5.00 IC1					510-5028	SLIDE SW HSW1805-010010
February					313-5140	
R.00 Q2						
8.00 Q3			(SOLDER)			
9.00 Q4 (SOLDER) 910 NOT USED NOT USED 11.00 D1 11.00 D2 105 481-5038 D10DE ISR-35-100A AXIAL 11.00 D2 105 481-5071 D10DE ISRF 22 CHIP 12.00 D3 105 481-5071 D10DE ISRF 22 CHIP 13.00 D4 (SOLDER) 910 NOT USED NOT			(3 - 1 - 2 - 1 - 1 - 1			
10.00 D1			(SOLDER)			•
11.00 D2			(
12.00 D3						
13.00 D4						
14.00 D5			(SOLDER)			
15.00 D6 (SOLDER) 910 NOT USED NOT USED CHOKE COIL 1.2MH FL7H122J			, , , , ,			
16.00	15.00	D6	(SOLDER)			
18.00 L2	16.00	Ll				CHOKE COIL 1.2MH FL7H122J
18.00 L2						
19.00 JV	18.00	L2				
21.00 R1	19.00	JΥ			271-0017	BEADS INDUCTOR FBA04VA900AB-00
22.00 R2 23.00 R3 117 476-2102-J-10 RES CHIP 27KOHM 1/10W 5% 24.00 R4 119 476-2392-J-10 RES CHIP 3.9KOHM 1/10W 5% 25.00 R5 (SOLDER) 118 476-2222-J-10 RES CHIP 2.2KOHM 1/10W 5% 26.00 R6 (SOLDER) 117 476-2102-J-10 RES CHIP 2.2KOHM 1/10W 5% 26.00 R6 (SOLDER) 129 476-2102-J-10 RES CHIP 1KOHM 1/10W 5% 27.00 R7 (SOLDER) 129 476-2114-F-10 RES CHIP 1KOHM 1/10W 1% 28.00 R8 (SOLDER) 126 476-2432-F-10 RES CHIP 4.3KOHM 1/10W 1% 29.00 R9 123 476-2473-J-10 RES CHIP 4.3KOHM 1/10W 1% 29.00 R1 (SOLDER) 120 476-2133-J-10 RES CHIP 4.3KOHM 1/10W 5% 31.00 R11 (SOLDER) 120 476-2133-J-10 RES CHIP 360 OHM 1/10W 5% 31.00 R11 (SOLDER) 120 476-2233-J-10 RES CHIP 12KOHM 1/10W 5% 31.00 R12 31.00 R12 130 476-2033-J-10 RES CHIP 23KOHM 1/10W 5% 31.00 R12 130 476-2033-J-10 RES CHIP 360 OHM 1/10W 5% 31.00 R12 32.00 R12 130 476-213-J-10 RES CHIP 20KOHM 1/10W 5% 35.00 R13 (SOLDER) 116 476-2221-J-10 RES CHIP 20KOHM 1/10W 5% 36.00 R16 SOLDER) 117 476-2682-F-10 RES CHIP 20KOHM 1/10W 1% RES CHIP 360 OHM 1/10W 1% RES CHIP 20KOHM 1/10W 1% RES CHIP 360 OHM 1/10W 1% RES CHIP 37 OHM 1/10W 1% RES CHIP 37 OHM 1/10W 1% RES CHIP 4.3KOHM 1/10W 1	20.00	JG		115	271-0017	BEADS INDUCTOR FBA04VA900AB-00
23.00 R3 24.00 R4 24.00 R4 25.00 R5 (SOLDER) 118 476-2392-J-10 RES CHIP J.SKOHN 1/10W 5% 26.00 R6 (SOLDER) 117 476-2102-J-10 RES CHIP J.SKOHN 1/10W 5% 26.00 R6 (SOLDER) 117 476-2102-J-10 RES CHIP J.SKOHN 1/10W 5% 27.00 R7 (SOLDER) 129 476-2114-F-10 RES CHIP J.SKOHN 1/10W 1% 28.00 R8 (SOLDER) 126 476-22132-F-10 RES CHIP J.SKOHN 1/10W 1% 29.00 R9 123 476-2473-J-10 RES CHIP J.SKOHN 1/10W 1% 30.00 R10 (SOLDER) 120 476-2133-J-10 RES CHIP J.SKOHN 1/10W 5% 31.00 R11 (SOLDER) 120 476-2123-J-10 RES CHIP J.SKOHN 1/10W 5% 31.00 R12 33.00 R13 (SOLDER) 130 476-2123-J-10 RES CHIP J.SKOHN 1/10W 5% 33.00 R13 (SOLDER) 130 476-2213-J-10 RES CHIP J.SKOHN 1/10W 5% 31.00 R14 128 476-2203-F-10 RES CHIP J.SKOHN 1/10W 5% 34.00 R14 128 476-2203-F-10 RES CHIP J.SKOHN 1/10W 5% 35.00 R15 G.SOLDER) 160 170 170 170 170 170 170 170 170 170 17	21.00	R1		122	476-2333-J-10	RES CHIP 33KOHM 1/IOW 5%
24.00 R4				121	476-2273-J-10	
25.00 R5					476-2102-J-10	
26.00 R6 (SOLDER) 117 476-2102-J-10 RES CHIP 1KOHM 1/10W 5% 27.00 R7 (SOLDER) 129 476-2114-F-10 RES CHIP 110KOHM 1/10W 1% 28.00 R8 (SOLDER) 126 476-2432-F-10 RES CHIP 4.3KOHM 1/10W 1% 29.00 R9 123 476-2433-J-10 RES CHIP 47KOHM 1/10W 5% 30.00 R10 (SOLDER) 122 476-2333-J-10 RES CHIP 33KOHM 1/10W 5% 31.00 R11 (SOLDER) 120 476-2123-J-10 RES CHIP 12KOHM 1/10W 5% 32.00 R12 33.00 R13 (SOLDER) 16 476-2123-J-10 RES CHIP 12KOHM 1/10W 5% 34.00 R14 128 476-2203-F-10 RES CHIP 220 OHM 1/10W 5% 34.00 R14 128 476-2203-F-10 RES CHIP 20KOHM 1/10W 1% 35.00 R15 127 476-2682-F-10 RES CHIP 20KOHM 1/10W 1% 35.00 R15 (SOLDER) 910 NOT USED 40.00 C1 (SOLDER) 910 NOT USED NOT USED NOT USED 40.00 C1 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V M 35SP(X)22 45.00 C6 131 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C9 (SOLDER) 132 NOT USED NOT USED NOT USED 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 CAP CER CP 0.1UF 25V ZF 2125 47.00 C10 C10 C10 C10 C10 C10 C10 C10 C10 C						
27.00 R7			· ·			
28.00 R8 (SOLDER) 126			•			
29.00 R9 30.00 R10 (SOLDER) 123 476-2473-J-10 RES CHIP 47KOHM 1/10W 5% 31.00 R11 (SOLDER) 120 476-2333-J-10 RES CHIP 33KOHM 1/10W 5% 32.00 R12 130 476-0361-J-04 RES CHIP 12KOHM 1/10W 5% 33.00 R13 (SOLDER) 116 476-2221-J-10 RES CHIP 220 OHM 1/10W 5% 34.00 R14 128 476-2203-F-10 RES CHIP 20KOHM 1/10W 1% 35.00 R15 127 476-2682-F-10 RES CHIP 20KOHM 1/10W 1% 35.00 R15 (SOLDER) 910 NOT USED NOT USED 37.00 R17 (SOLDER) 910 NOT USED NOT USED 38.00 R18 125 476-2514-F-10 RES CHIP 510KOHM 1/10W 1% 39.00 R19 910 NOT USED NOT USED 40.00 C1 (SOLDER) 139 153-0088 CAP TANT CP 0.68UF 16V 3216 41.00 C2 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 50.00 C11 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125			•		176-2111-F-10	
30.00 R10 (SOLDER) 122 476-2333-J-10 RES CHIP 3380HM 1/10W 5% 31.00 R11 (SOLDER) 120 476-2123-J-10 RES CHIP 12KOHM 1/10W 5% 32.00 R12 130 476-0361-J-04 RES CHIP 360 OHM 1/4W 5% 33.00 R13 (SOLDER) 116 476-2221-J-10 RES CHIP 220 OHM 1/10W 5% 34.00 R14 128 476-2203-F-10 RES CHIP 20KOHM 1/10W 1% 35.00 R15 127 476-2682-F-10 RES CHIP 20KOHM 1/10W 1% 6.00 R16 (SOLDER) 910 NOT USED CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C9 (SOLDER) 132 NOT USED SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP			(SOLDER)			
31.00 R11 (SOLDER) 120 476-2123-J-10 RES CHIP 12KOHN 1/10W 5% 32.00 R12 130 476-0361-J-04 RES CHIP 360 OHN 1/4W 5% 33.00 R13 (SOLDER) 116 476-2221-J-10 RES CHIP 20 OHN 1/10W 5% 34.00 R14 128 476-2203-F-10 RES CHIP 20KOHN 1/10W 1% 35.00 R15 127 476-2682-F-10 RES CHIP 20KOHN 1/10W 1% 35.00 R15 NOT USED NOT USED NOT USED 37.00 R17 (SOLDER) 910 NOT USED NOT USED NOT USED 38.00 R18 125 476-2514-F-10 RES CHIP 510KOHN 1/10W 1% 39.00 R19 910 NOT USED NOT USED NOT USED NOT USED 40.00 C1 (SOLDER) 139 153-0088 CAP TANT CP 0.68UF 16V 3216 CAP CER CP 0.1UF 25V ZF 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C9 (SOLDER) 132 NOT USED NOT USED NOT USED SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 1						
32.00 R12			•			
33.00 R13 (SOLDER) 116 476-2221-J-10 RES CHIP 220 OHN 1/10W 5% 34.00 R14 128 476-2203-F-10 RES CHIP 20KOHM 1/10W 1% 35.00 R15 127 476-2682-F-10 RES CHIP 6.8KOHM 1/10W 1% 35.00 R16 (SOLDER) 910 NOT USED NOT USED 37.00 R17 (SOLDER) 910 NOT USED NOT USED NOT USED 38.00 R18 125 476-2514-F-10 RES CHIP 510KOHM 1/10W 1% 39.00 R19 910 NOT USED NOT USED NOT USED 40.00 C1 (SOLDER) 139 153-0088 CAP TANT CP 0.68UF 16V 3216 41.00 C2 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED NOT USED NOT USED NOT USED NOT USED Solve 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 C			(SOLDER)			
34.00 R14	_					
35.00 R15 66.00 R16 (SOLDER) 910 NOT USED NOT USED 37.00 R17 (SOLDER) 910 NOT USED NOT USED 38.00 R18 39.00 R19 40.00 C1 (SOLDER) 139 153-0088 CAP TANT CP 0.68UF 16V 3216 41.00 C2 133 151-0265 CAP CER CP 0.1UF 25V XF 2125 42.00 C3 134 151-0265 CAP CER CP 0.1UF 25V XF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V XF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V XF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V XF 2125 48.00 C9 (SOLDER) 132 NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V XF 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V XF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125			(SOLDER)			
36.00 R16 (SOLDER) 910 NOT USED NOT USED NOT USED 37.00 R17 (SOLDER) 910 NOT USED NOT USED						
37.00 R17 (SOLDER) 910 NOT USED NOT USED 38.00 R18 125 476-2514-F-10 RES CHIP 510K0HM 1/10W 1% 39.00 R19 910 NOT USED NOT USED 40.00 C1 (SOLDER) 139 153-0088 CAP TANT CP 0.68UF 16V 3216 41.00 C2 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V M 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0265 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0268 CAP CER CP 0.1UF 25V ZF 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 50.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125			(m a s s m m s)		- - -	
38.00 R18						
39.00 R19 910 NOT USED NOT USED 40.00 C1 (SOLDER) 139 153-0088 CAP TANT CP 0.68UF 16V 3216 41.00 C2 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0269 CAP CER CP 0.1UF 25V K 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125			(SOLDER)			
40.00 C1 (SOLDER) 139 153-0088 CAP TANT CP 0.68UF 16V 3216 41.00 C2 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0269 CAP CER CP 0.1UF 25V K 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V K 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP E 100UF 25V M 25SP(X)100 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125	••					
41.00 C2 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 42.00 C3 134 151-0269 CAP CER CP 0.1UF 25V K 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V K 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP CER CP 0.1UF 25V ZF 2125 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125						
42.00 C3 134 151-0269 CAP CER CP 0.1UF 25V K 2125 43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V M 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CP 0.1UF 25V ZF 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V ZF 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP E 100UF 25V M 25SP(X)100 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125			(SOLDER)			
43.00 C4 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 44.00 C5 135 150-0314 CAP E 22UF 35V N 35SP(X)22 45.00 C6 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 46.00 C7 131 151-0268 CAP CER CHLP 680PF K B 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V K 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP E 100UF 25V M 25SP(X)100 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125						
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46.00 C7 131 151-0268 CAP CER CHIP 680PF K B 2125 47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V K 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP E 100UF 25V M 25SP(X)100 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125				135	150-0314	
47.00 C8 134 151-0269 CAP CER CP 0.1UF 25V K 2125 48.00 C9 (SOLDER) 132 NOT USED NOT USED 49.00 C10 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125 50.00 C11 136 150-0315 CAP E 100UF 25V M 25SP(X)100 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125						
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50.00 C11 136 150-0315 CAP E 100UF 25V M 25SP(X)10C 51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125			(SOLDER)			
51.00 C12 (SOLDER) 133 151-0265 CAP CER CP 0.1UF 25V ZF 2125						
			(00) 555			
52.00 C13 137 150-0316 $\text{CAP} \times 8200 \text{F} \text{ 6.3V N 6.3SP}(X)820$			(SOLDER)			
	52.00	C13		137	150-0316	CAP E 8200F 6.3V N 6.3SP(X)820

PART NO. : 837-7997B

DESCRIPTION : IC BD GG DC-DC CONV. EUROPE B

1.00 2.00 J 3.00 C	OCATE L N 1 W 1	DNO OR 1 111 108 112	PART NO. 171-6102A 210-5062 600-5911 510-5028	DESCRIPTION PC BD GG DC-DC CONV.EUROPE CONN DC JACK W/SW LGP4031-03 WIRE HARN 9P FOR GG 60MM SLIDE SW HSW1805-010010
6.00 Q 7.00 Q 8.00 Q 9.00 Q	Q (SOLDER)	101 102 103 104 910	313-5140 482-5125 482-5126 482-5130 NOT USED	IC MB3775PF-G-BND SOP XSTR 2SA812 M57 CHIP ' XSTR 2SC1623 L57 CHIP XSTR 2SB1301 ZQ OR ZP CHIP NOT USED
10.00 D 11.00 D 12.00 D 13.00 D 14.00 D 15.00 D	02 03 04 (SOLDER) 05	106 105 105 910 910 910	481-5038 481-5071 481-5071 NOT USED NOT USED NOT USED	DIODE ISR-35-100A AXIAL DIODE HRF 22 CHIP DIODE HRF 22 CHIP NOT USED NOT USED NOT USED
16.00 L 17.00 L 18.00 L 19.00 J 20.00 J 21.00 R 22.00 R	1 2 2 2 V G G 1 1	113 114 1 114 2 115 115 122 121	180-5071 180-5072 180-5083 271-0017 271-0017 476-2333-J-10 476-2273-J-10	CHOKE COIL 1.2MH FL7H122J CHOKE COIL 68UH TSL1110680KH CHOKE COIL 68UH A90-870-0 BEADS INDUCTOR FBA04VA900AB-0 BEADS INDUCTOR FBA04VA900AB-0 RES CHIP 33KOHM 1/10W 5% RES CHIP 27KOHM 1/10W 5%
23.00 R 24.00 R 25.00 R 26.00 R 27.00 R 28.00 R 29.00 R	4 (SOLDER) 6 (SOLDER) 7 (SOLDER) 8 (SOLDER)	117 119 118 117 129 126 123	476-2102-J-10 476-2392-J-10 476-2222-J-10 476-2102-J-10 476-2114-F-10 476-2432-F-10 476-2473-J-10	RES CHIP 1KOHM 1/10W 5% RES CHIP 3.9KOHM 1/10W 5% RES CHIP 2.2KOHM 1/10W 5% RES CHIP 1KOHM 1/10W 5% RES CHIP 110KOHM 1/10W 1% RES CHIP 4.3KOHM 1/10W 1% RES CHIP 47KOHM 1/10W 5%
30.00 R 31.00 R 32.00 R 33.00 R 34.00 R 35.00 R 36.00 R	11 (SOLDER) 12 13 (SOLDER) 14	122 120 130 116 128 127 910	476-2333-J-10 476-2123-J-10 476-0361-J-04 476-2221-J-10 476-2203-F-10 476-2682-F-10 NOT USED	RES CHIP 33KOHM 1/10W 5% RES CHIP 12KOHM 1/10W 5% RES CHIP 360 OHM 1/4W 5% RES CHIP 220 OHM 1/10W 5% RES CHIP 20KOHM 1/10W 1% RES CHIP 6.8KOHM 1/10W 1% NOT USED
37 .00 R 38 .00 R 39 .00 R 10 .00 C 11 .00 C	17 (SOLDER) 18 19 1 (SOLDER) 2	910 125 910 139 133	NOT USED 476-2514-F-10 NOT USED 153-0088 151-0265 151-0269	NOT USED RES CHIP 510KOHM 1/10W 1% NOT USED CAP TANT CP 0.68UF 16V 3216 CAP CER CP 0.1UF 25V ZF 2125
13.00 C 14.00 C 15.00 C 16.00 C 17.00 C 8.00 C	4 (SOLDER) 5 6 7 8	134 133 135 133 131 134 132	151-0265 150-0314 151-0265 151-0268 151-0269 NOT USED	CAP CER CP 0.1UF 25V K 2125 CAP CER CP 0.1UF 25V ZF 2125 CAP E 22UF 35V M 35SP(X)22 CAP CER CP 0.1UF 25V ZF 2125 CAP CER CHIP 680PF K B 2125 CAP CER CP 0.1UF 25V K 2125 NOT USED
9.00 C1 0.00 C1 1.00 C1 2.00 C1	10 11 12 (SOLDER)	133 136 133 137	151-0265 150-0315 151-0265 150-0316	CAP CER CP 0.1UF 25V ZF 2125 CAP E 100UF 25V M 25SP(X)100 CAP CER CP 0.1UF 25V ZF 2125 CAP E 820UF 6.3V M 6.3SP(X)820





IC BD BB DC-DC CONV. EVENTE 3 377-79970

IC BD BB OC-DC CONV. EVENTE 237-7997

TO BD BB OC-DC CONV. EVENTE 237-7997

TO BB BB OC-DC CONV. EVENTE 237-7997

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