SERVICE MANUAL



PERSONAL COMPUTER SONY.

Part 2
Scanned and converted to PDF by HansO, 2001
Original by Bas Kornalijnslijper, MCWF

CHAPTER 4 SCHEMATIC DIAGRAM AND PRINTED CIRCUIT BOARD

4-1. SEMICONDUCTOR PIN ASSIGMENT

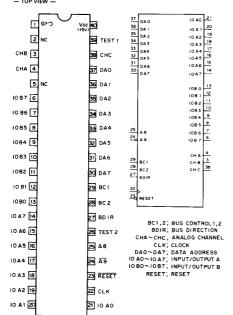
The circuit diagram of each IC is obtained from the IC deta book published by the manufacturer.

TYPE	PAGE	TYPE	PAGE
1S1555	4-14	HD74LS367AP	4-11
1SS119	4-14	HD74LS368AP	4-11
1SS133	4-14		
1SS148	4-14	HD74LS374P	4-11
		HD74LS74AP	4-11
2SC1740S			
2SC2458		LH0080	4-5
2SC2603			
2SC2785		M74LS00P	4-8
2SC945	4-14	M74LS02P	4-8
		M74LS04P	4-7
AY-3-8910	4-3	M74LS08P	4-8
		M74LS12P	4-8
CXD1032Q	4-4		
		M74LS138P	4-9
ERA81-004	4-14	M74LS139P	4-9
01.450404		M74LS14P	4-8
GL-1EG101	4-14	M74LS153P	4-9
HD14053DD		M74LS155P	4-9
HD14052BP	4-7	MANICATOR	
HD7406N	4-7	M74LS156P	4-9
HD74LS00P	4-8 4-8	M74LS157F	4-10
HD74LS04P	4-8 4-7	M74LS21P	4-10 4-10
1107423047	4-/	M74LS240P	4-10 4-10
HD74LS08P	4-8	W/7-C52-707	4-10
HD74LS12P	4-8	M74LS244P	4-10
HD74LS125AP	4-8	M74LS273P	4-11
HD74LS138P	4-9	M74LS32P	4-7
HD74LS139P	4-9	M74LS367AP	4-11
		M74LS74AP	4-11
HD74L\$14P	4-8		
HD74LS153P	4-9	M74LS74P	4-11
HD74LS155P	4-9		
HD74LS156P	4-9	MB74LS00	4-8
HD74LS157P	4-10	MB74LS00P	4-8
		MB74LS02	4-8
HD74LS175P	4-10	MB74LS04	4-7
HD74LS21P	4-10	MB74LS08	4-8
HD74LS240P	4-10		
HD74LS244N	4-10	MB74LS12	4-8
HD74LS244P	4-10	MB74LS123	4-8
		MB74LS125A	4-8
HD74LS245P	4-10		
HD74LS273P	4-11		
HD74LS32P	4-7		

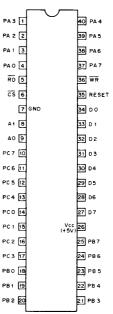
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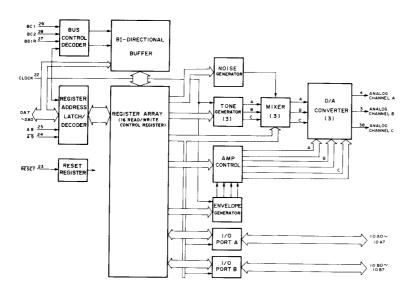
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MB74LS139	4-9	SN74LS157N	4-10
MB74LS14	4.0	SN74LS175N	4-10
MB74LS153	4-8	SN1741 S21N1	4.10
MB74LS155	4-9 4-9	SN74LS21N	4-10 4-10
MB74LS156	4-9 4-9	SN74LS240N	4-10
MB74LS157	4-9 4-10	SN74LS244N	4-10
WID74E3137	4-10	SN74LS245N	4-10
MB74LS175	4-10	31V/4E3243IV	4-10
MB74LS21	4-10	SN74LS273N	4-11
MB74LS221	4-10 4-10	SN74LS32N	4-7
MB74LS244	4-10	SN74LS367AN	4-11
MB74LS245	4-10	SN74LS368AN	4-11
	7-10	SN74LS374N	4-11
MB74LS32	4-7		
MB74LS367A	4-11		
MB74LS368A	4-11	SN74LS628N	4-11
MB74LS74A	4-11	SN74LS74AN	4-11
		SN75188N	4-12
MB83256 · · · · · · · · · · · · · · · · · · ·	4-6	SN75189AN	4-11
MB8416A-15	4-7		
	4-7	SVC203	4-14
RP5C01	4-6	TI 404 OR	
	-	TL431CP	4-12
SN7404N	4-7	TL7705CP	4-12
SN7406N	4-7	UPC311C	4.40
SN7407N	4-7	UPC4558C	4-12
SN7438N	4-8	UPC4556C	4-12
SN74LS00N	4-8	LIBDAGESBC	
		UPD4052BC	4-12
SN74LS02N	4-8	UPD8251AFC	4-5
SN74LS04N	4-7	UPD8253C	4-13
SN74LS08N	4-8	UPD8255AC-5	4-5
SN74LS12N	4-8	OFD6295AC-9	4-3
SN74LS123AN	4-8	WD2793A-PL02	4-13
Q1/24/ Q1/Q1/			
SN74LS123N	4-8	YM-2149	4-3
SN74LS133N	4-8		
SN74LS138N	4-9	μPC1377C	4-12
SN74LS139N	4-9		
SN74LS14N	4-8		
SN74LS153N	4-9		
SN74LS155N	4-9		

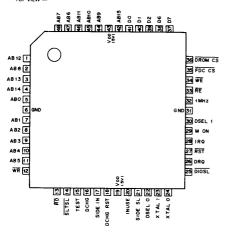
AY-3-8910 (GENERAL INSTRUMENT) YM-2149 (YAMAHA) PROGRAMMABLE SOUND GENERATOR — TOP VIEW —

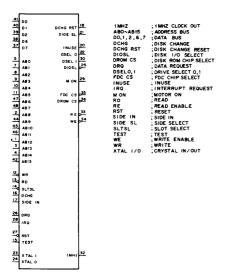


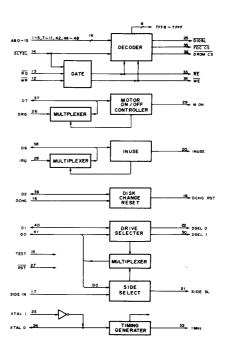
uPD8255AC-5 (NEC) PROGRAMMABLE PERIPHERAL INTERFACE — TOP VIEW —

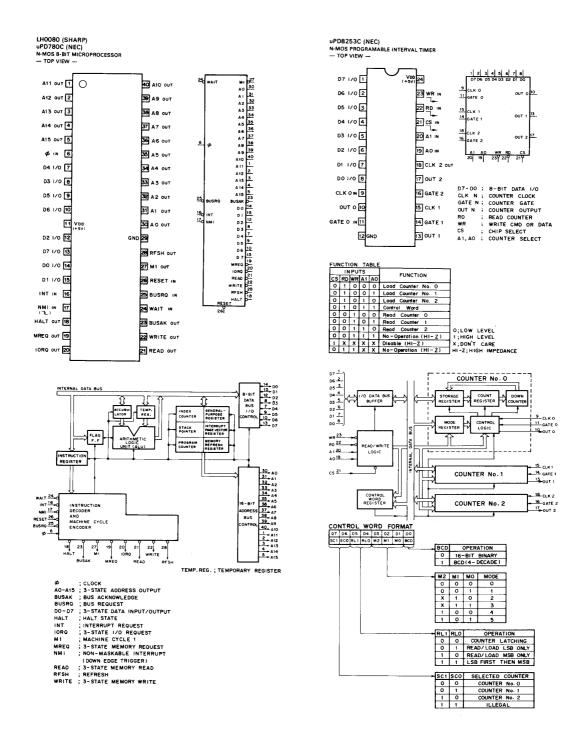




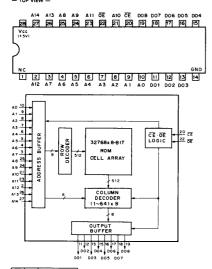






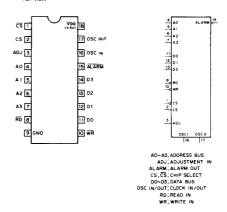


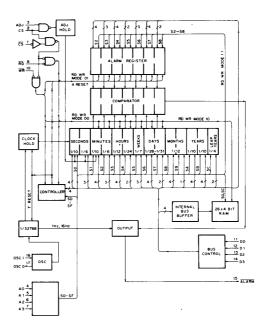


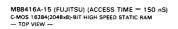


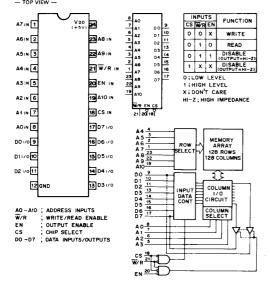
| CE | OE | DATA OUTPUT | 1 | X | HIGH-Z | 0 | 1 | HIGH-Z | 0 | 0 | UTPUT DATA | 1 | HIGH-EVEL | 0 | LOW LEVEL | X | DON'T CARE | HIGH-Z | HIGH IMPEDANCE

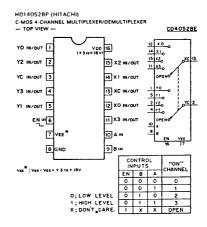
RP5CO1 (RICOH) C-MOS REAL TIME CLOCK — TOP VIEW —



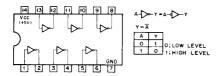




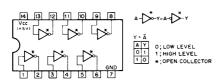




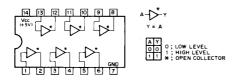


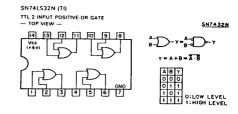




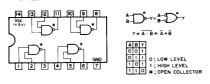


SN7407N (TI) TTL BUFFER/DRIVER WITH OPEN-COLLECTOR — TOP VIEW —

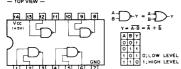






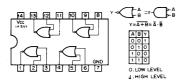


SN74LSOON (TI) TTL 2-INPUT POSITIVE-NAND GATE — TOP VIEW ---

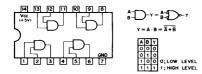


SN74LSO2N (TI)
TTL 2-INPUT POSITIVE-NOR GATE
— TOP VIEW —

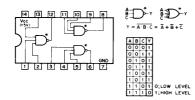
1 2 3 4 5 6 7



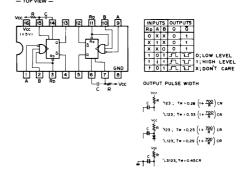
SN74LSO8N (TI)
TTL 2-INPUT POSITIVE-AND GATE
— TOP VIEW —



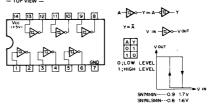
SN74LS12N (TI) TTL 3-INPUT POSITIVE-NAND GATE WITH OPEN-COLLECTOR OUTPUT — TOP VIEW —



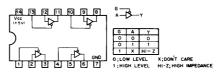
SN74LS123N (TI) TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET — TOP VIEW —



SN74LS14N (TI) TTL SCHMITT TRIGGER INVERTER — TOP VIEW —

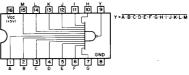


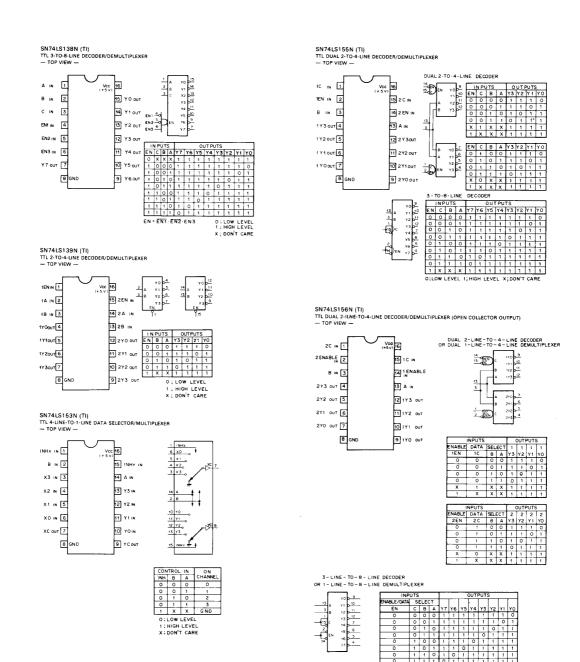
SN74LS125AN (TI) TTL BUS BUFFER GATES WITH 3-STATE OUTPUT — TOP VIEW —



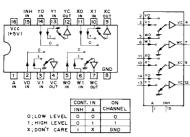
SN74ALS133N (TI) TTL 13-INPUT NAND GATE — TOP VIEW —



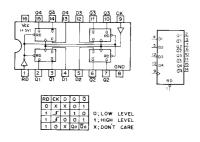


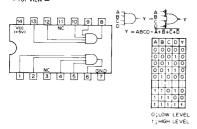




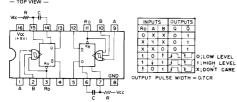


SN74LS175N (TI)
TTL D-TYPE FLIP-FLOP WITH CLEAR
— TOP VIEW —

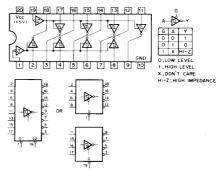




SN74LS221N (TI)
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
— TOP VIEW —

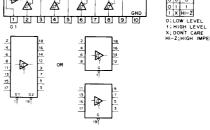


SN74LS240N (TI) TTL 3-STATE SCHMITT TRIGGER INVERTER/LINE DRIVER — TOP VIEW —

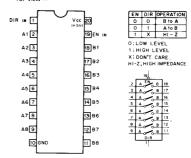


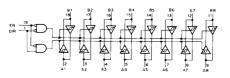
SN74LS244N (TI)
TTL 3-STATE SCHMITT TRIGGER BUFFER/DRIVER
— TOP VIEW —

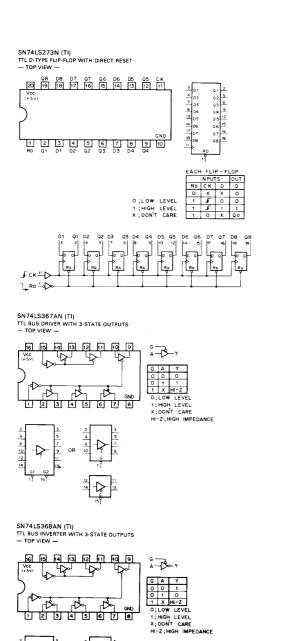
20 19 18 17 16 15 14 13 12 11 V A V , <u>A</u> Æ, A 2 3 4 5 6 7 8 9 10

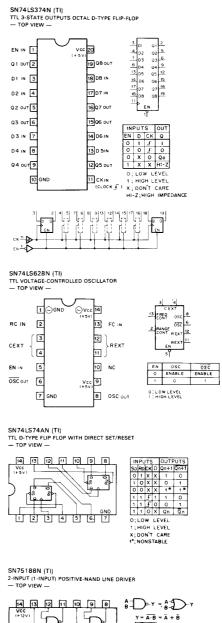


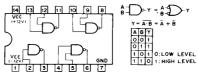
SN74LS245N (TI) TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS WITH 3-STATE OUTPUT — TOP VIEW —





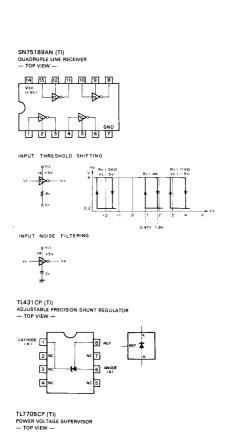






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OR



Vcc 8

7 SENSE IN

6 out (1)

5 OUT (2)

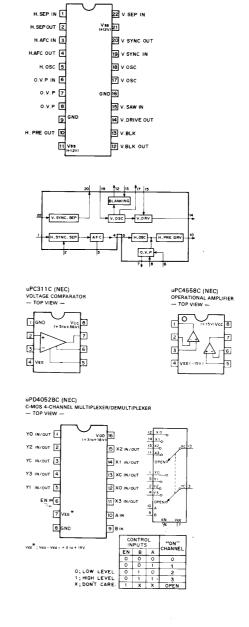
└

RESIN N2

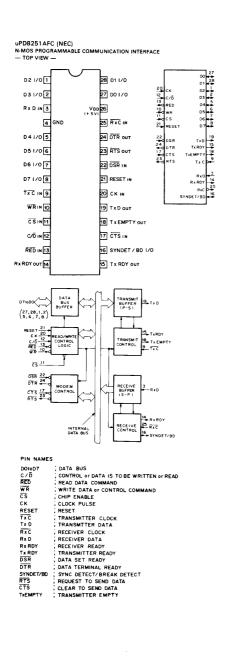
CT IN 3

4

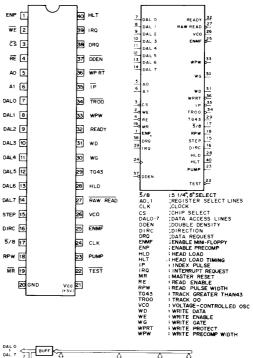
REF +2.5V

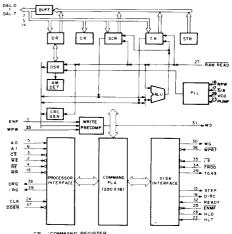


uPC1377C (NEC)
SYNCHRONIZATION SIGNAL PROCCESSOR
— TOP VIEW —



WD2793A-PLO2 (WESTERN DIGITAL) N CHANNEL E/D MOD FLOPPY DISK FORMATTER/CONTROLLER — TOP VIEW — HLT

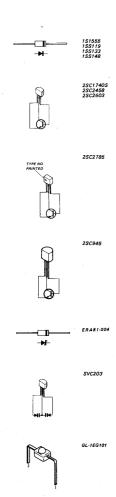




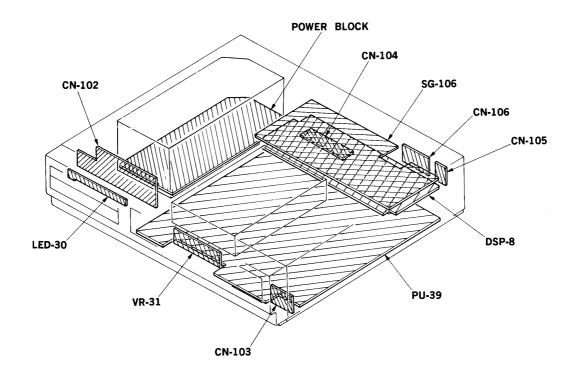
CR COMMAND REGISTER
DR DATA REGISTER
DSR DATA SHIFT REGISTER
SCR SECTOR REGISTER
TR TRACK REGISTER
STR STATUS REGISTER

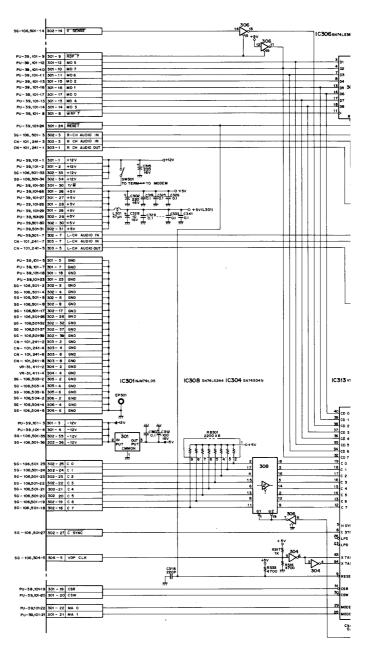
	STER	SELI	ECTION	
CS	AI	AO	RE = 0	WE = 0
L1	[x	x	NON SELECT	DAL = HI - Z
0	0	0	STR	CR
0	0	1	TR	TR
0	1	0	SCR	SCR
0	1	1	DR	DR

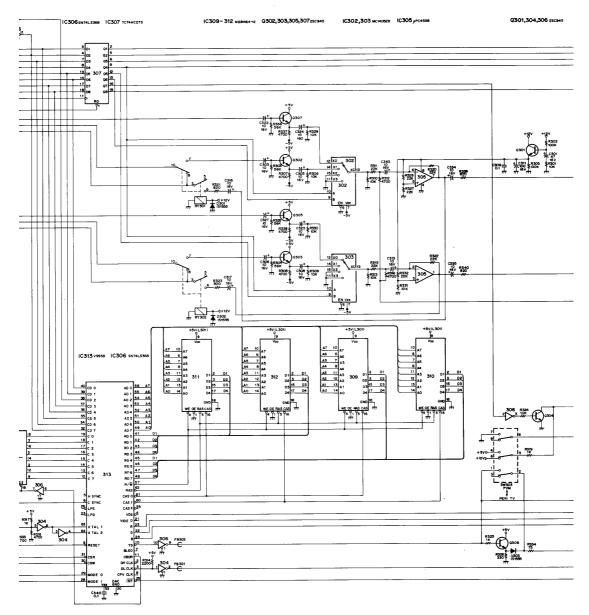
O ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z; HIGH IMPEDANCE

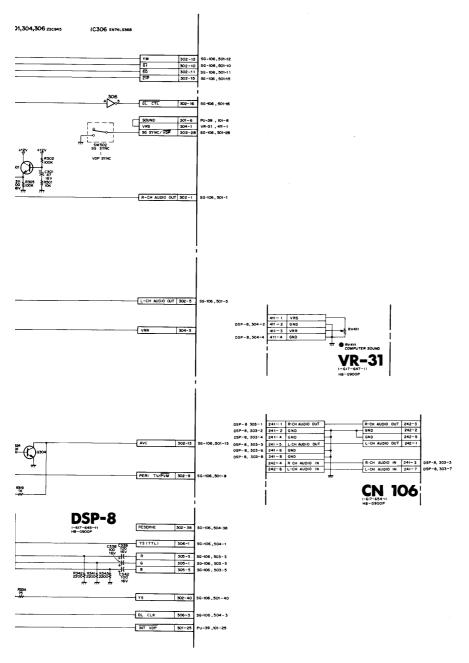


4-2 - CIRCUIT BOARDS LOCATION



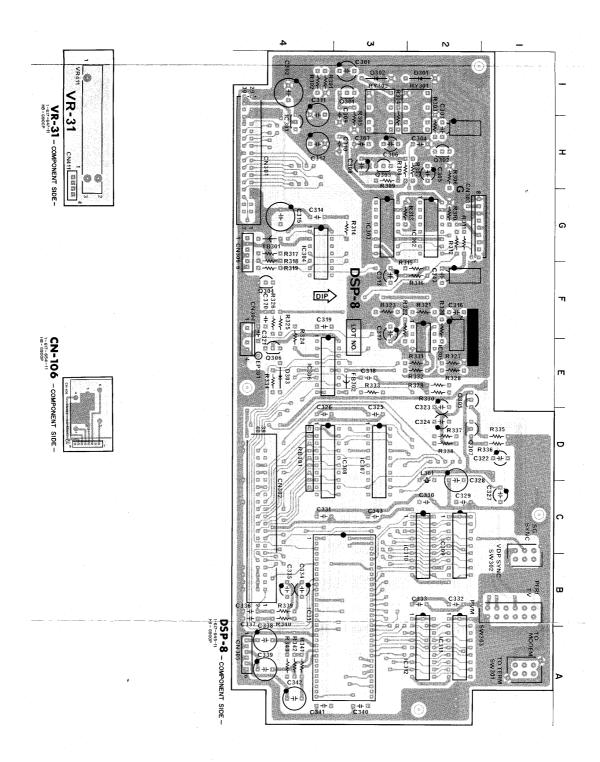




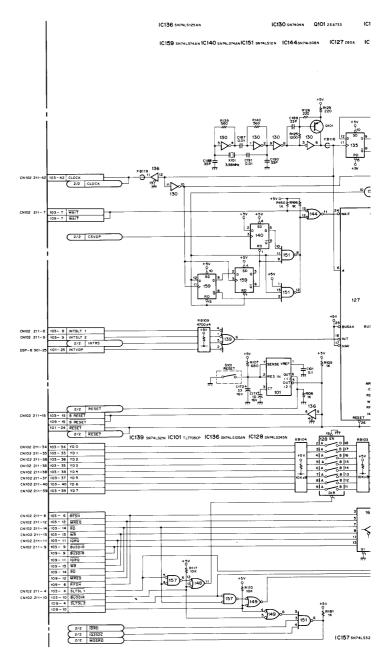


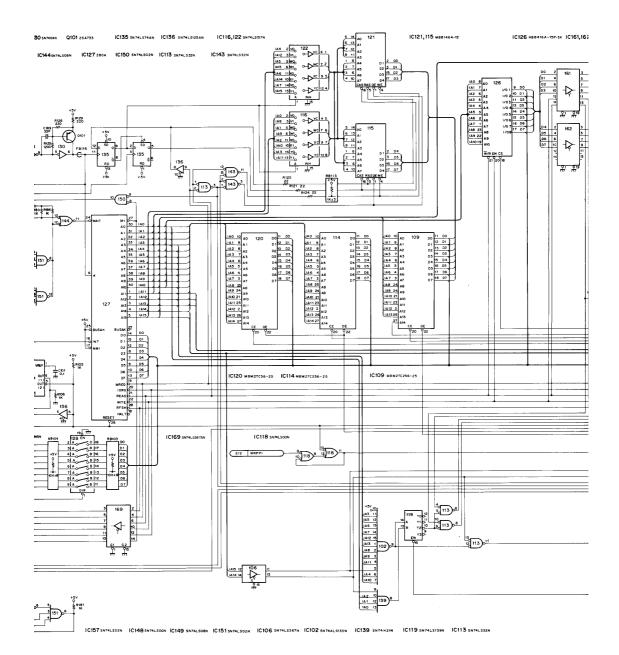
REF.NO	TYPE	PIN NO		0.		
KEP.NO	TIPE	+12V	+5V	GND	-5V	-12V
IC301	NJM79L05A	Refe	to S	Schema	tic Di	iagram
IC302	MC14052BCP, TC4052BP	1	16	8	7	
IC303	MC14052BCP, TC4052BP		16	8	7	
IC304	SN74LS04N, SN74S04N		14	7		
IC305	μPC4558C	Refer	to S	chema	tic Di	agram
IC306	SN74LS368AN		16 8			
IC307	TC74HC273P		20	10		
IC308	SN74LS244N		20	10	i	
IC309	MB81464-12		24	12		
IC310	MB81464-12		24	12		
IC311	MB81464-12		24	12		
IC312	MB81464-12		24	12		
IC313	V9938		58	1		

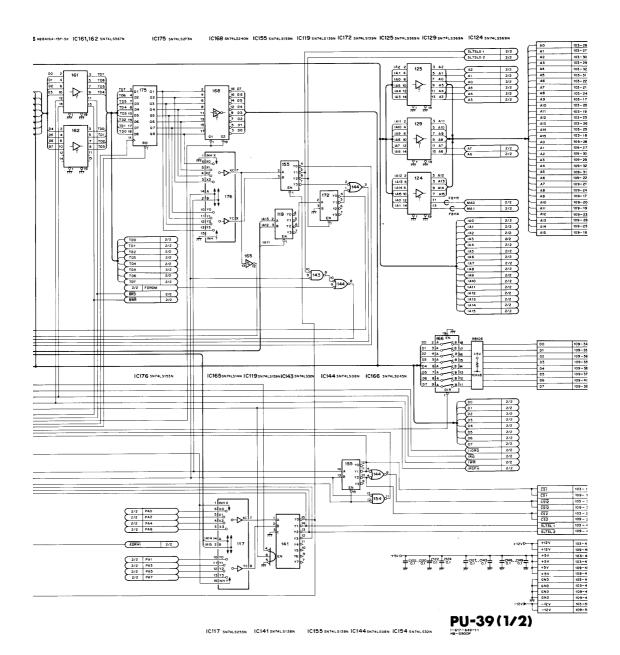
CN301	H-4	IC309	C-2
CN302	C-4	IC310	C-2
CN303	G-2	IC311	A-2
CN304	F-4	IC312	A-2
CN305	A-4	IC313	B-4
CN306	G-4	L301	D-2
D301	I-2		
D302	I-3	Q301	1-3
D303	E-4	Q302	H-2
D303	L-4	Q303	H-3
EP301	E-4	Q304	F-4
EP301	E-4	Q305	E-2
FD201	0.4	Q306	E-4
FB301	G-4	0307	D-2
FB302	E-3	•	
		RB301	D-4
IC301	H-4		
IC302	G-2	RY301	1-2
IC303	G-3	RY302	1-3
IC304	G-4	11302	1-3
IC305	F-2	CW201	A-1
IC306	E-4	SW301	
IC307	D-3	SW302	B-1
IC308	D-4	SW303	B-1
10300	U- -		

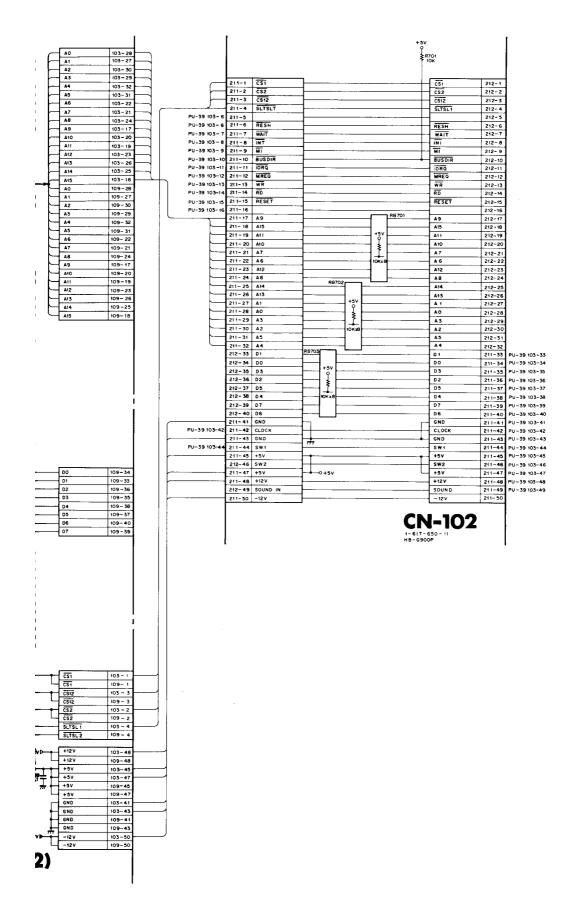


4-4. PU-39 (1/2), CN-102 BOARDS





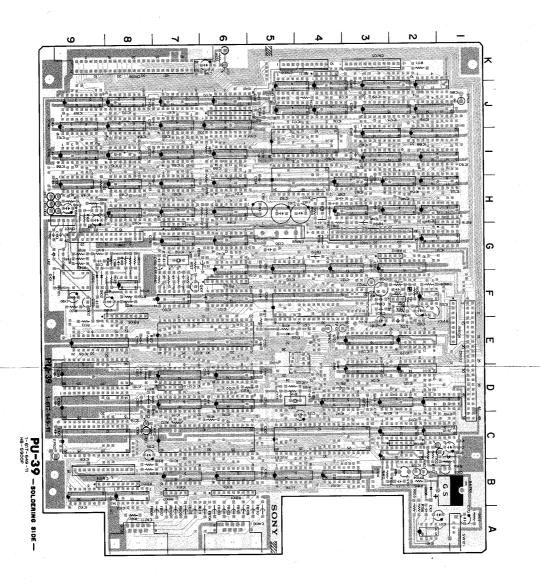


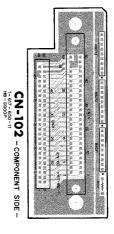


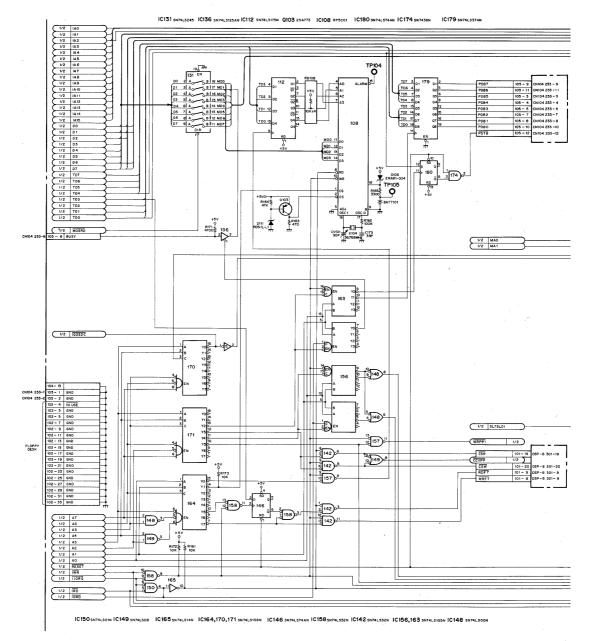
			P	IN N	0	
REF.NO	TYPE	+12V	+5٧	GND	_5V	-12V
IC101	TL770SCP		8	4		
IC102	SN74LS133N		16	8		
IC103	SN7407N		14	7		
IC104	SN74LS157N		16	8		
IC105	SN74LS157N		16	8		
IC106	SN74LS367AN		16	8		
IC107	SN74LS367SN		16	8		
IC108	RP5C01	Refer	to S	chema	tic Di	agram
IC109	MBM27C256-25		28	14		
IC110	AY3-3-8910		40	1		
IC111	MPD8255AC-5		26	7		
IC112	SN74LS175N		16	8		
IC113	SN74LS32N		14	7		
IC114	MBM27C256-25		28	14		
IC115	MB81464-12		9	18		
IC116	SN74LS157N		16	8		
IC117	SN74LS157N		16	8		
IC118	SN74LS00N		14	7		
IC119	SN74LS139N		16	8		
IC120	MBM27C256-25		28	14		
IC121	MB81464-12		9	18		
IC122	SN74LS157N		16	8		
IC124	SN74LS367AN		16	8		
IC125	SN74LS367AN		16	8		
IC126	MB8416A-15P		24	12		
	-SK					
IC127	μPD780C-1, Z80A		11	29		
IC128	SN74LS245N		20	10		
IC129	CXD1032Q		19, 43	6, 31		
IC130	SN74LS367AN		16	8		
IC131	SN7404N		14	7		
IC132	SN74LS245N		20	10		
IC133	TL431CP	Refer	to S	chema	tic Di	agram
IC134	WD2793A-PL02		21	20		
IC135	SN74LS74AN		14	7		
IC136	SN74LS125AN		14	7		
IC137	SN7406N		14	7		
IC138	SN74LS244N		20	10		
IC139	SN74LS21N		14	7		
IC140	SN74LS74AN		14	7		
IC141	SN74LS138N		16	8		
IC142	SN74LS32N		14	7		
IC143	SN74LS32N		14	7		
IC144	SN74LS08N		14	7		
IC145	SN74LS04N		14	7		
IC146	SN74LS74AN		14	7		
IC147	SN74LS156N		16	8		

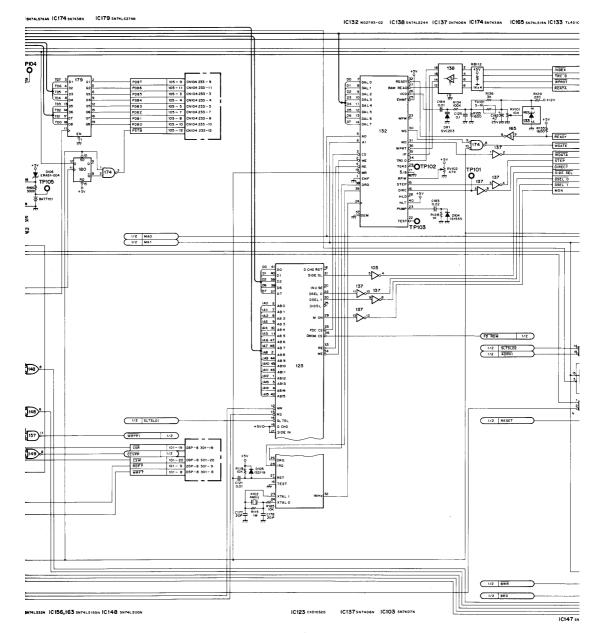
REF.NO	TYPE	PIN NO.				
REF.NO	ITPE	+12V	+5V	GND	-5V	-12V
IC148	SN74LS00N		14	7		
IC149	SN74LS08N		14	7		
IC150	SN74LS02N		14	7		
IC151	SN74LS12N		14	7		
IC152	μPD8253C-5		24	12		
IC153	SN74LS32N		14	7		
IC154	SN74LS32N		14	7		
IC155	SN74LS139N		16	8		
IC156	SN74LS155N		16	8		
IC157	SN74LS32N		14	7		
IC158	SN74LS32N		14	7		
IC159	SN74LS74AN		14	7		
IC160	μPD8251AFC		26	-4		
IC161	SN74LS367AN		16	8		
IC162	SN74LS367AN		16	8		
IC163	SN74LS155N		16	8		
IC164	SN74LS138N		16	8		
IC165	SN74LS14N		14	. 7		
IC166	SN74LS245N		20	10		
IC167	SN74LS367AN	ļ	16	8		
IC168	SN74L240N	ŀ	20	10		
IC169	SN74LS367AN		16	8		
IC170	SN74LS138N		16	8		
IC171	SN74L138N		16	8		
IC172	SN74LS139N		16	8		
IC173	SN74LS188N		14	7		
IC174	SN74L38AN		14	7		
IC175	SN74LS273N		20	10		
IC176	SN74LS153N		16	8		
IC177	SN74189AN		14	7		
IC178	SN74189AN		14	7		
IC179	SN74LS374N		20	10		
IC180	SN74LS74AN		14	7		

CN101	G-9	IC116	D-6	IC174	J-4	
CN102	G-3	IC117	D-4	IC175	J-3	
CN103	E-1	IC118	D-2	IC176	J-2	
CN105	K-3	IC119	D-1	IC177	J.5	
CN106	K-4	IC121	D-7	IC178	J-4	
CN107	H-9	IC122	D-6	IC179	J-3	
CN108	G-5	IC124	D-3	IC180	J-2	
CN109	K-8	IC125	D-2			
CN110	A-6	IC126	E-9	L101	G-9	
CN111	A-8	IC127	E-7	L102	E ⋅2	
		IC128				
CV101	B-2	IC129	E-2	Q101	F-7	
		IC130	F-7	Q102	F-9	
D101	F-9	IC131	F-6	Q103	B-1	
D102	F-9	IC132	F-4	Q104	H-9	
D103	F-9	IC133	F-2	•		
D104	F-2	IC134		RB101	B-6	
D105	E-5	IC135		RB102		
D106	B-2			RB103		
D111	C-1	IC137		RB104		
D121	F·2	IC138	G-2	RB105		
	. –	IC139				
EP101	J-1	IC140		RB107		
EP102	C-9		G-1			
_,	0.5	IC142	H-8			
FB101	A-6	IC143	H-7			
FB102	A-6	IC144		RB112		
FB103	A-6	IC145	H-3	RB112		
FB104	A-6	IC145	H-2	NDIIS	٠٠/	
FB105	A-7	IC140		RY101	F-9	
FB105	A-7	IC147	H-1 H-9	K1101	r-9	
FB107	A-7	IC148		6101	A-1	
FB107	A-7		H-8	\$101	W-1	
		IC150 IC151	H-7	TU101	- 2	
FB109	A-5		H-6	TH101	F∙2	
FB110	A-5	IC152	H-4	TD101	- A	
FB111	A-6	IC153	H-3	TP101	E-4	
FB112	A-7	IC154	H-2	TP102	E-4	
	D-8	IC155	H-1	TP103	F-3	
FB114	D-4	IC156	1.9	TP104	B-2	
FB115	D-3	IC157	I-8	TP105	B-2	
FB116	G-6	IC158	1-7	V10:	<u> </u>	
FB119	G-4	IC159	1-6	X101	G-7	
FB120	H-3	IC160	1-4	X102	D-4	
10101		IC161	1-3	X103	H-4	
IC101	A-2	IC162	I-1	X104	B-2	
IC102	B-9	IC163	J-9			
IC103	B-8	IC164	1-8			
IC104	B-7	IC165	J-7			
IC105	B-6	IC166	J-6			
IC106	B.5	IC167	1-3			
IC107	B-4	IC168	1-2			
IC108	C-2	IC169	J-9			
IC110	C-6	IC170	J-8			
IC111	C-4	IC171	J-7			
IC112	C-2	IC172	J-6			
IC115	D-7	IC173	J-5			

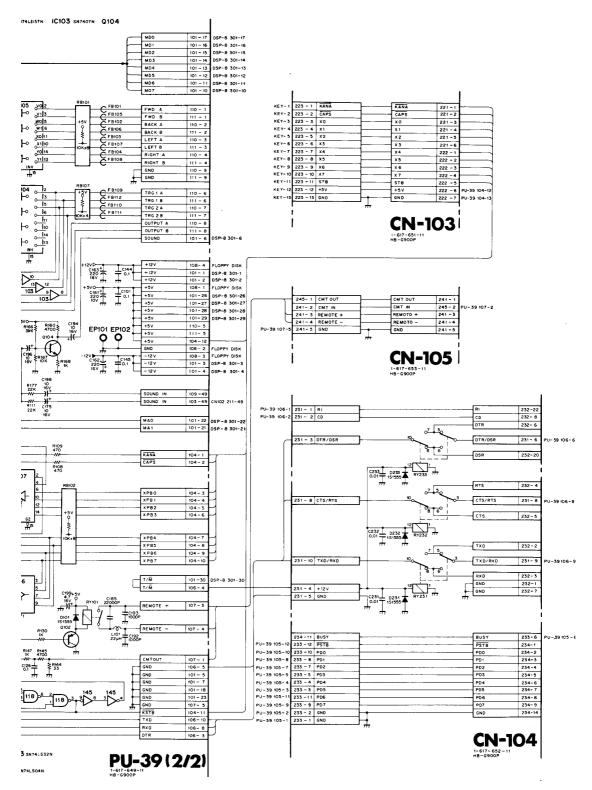








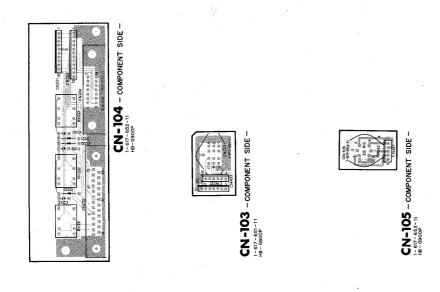
IC111 8255A-5 IC106,107 SN74LS367NIC143 SN74LS32N

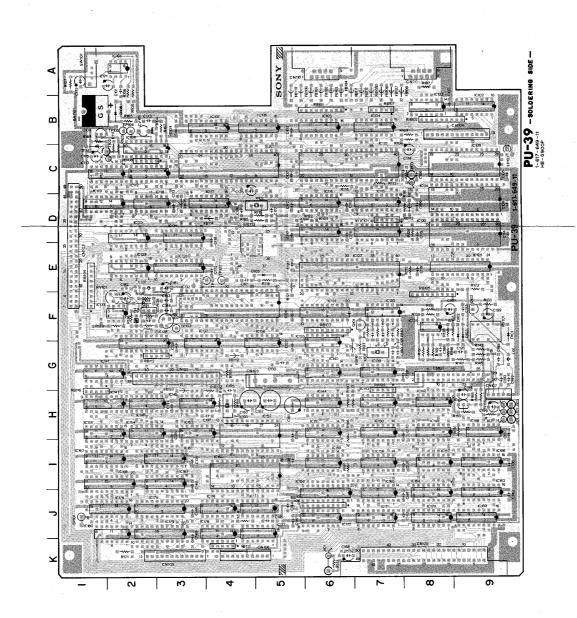


	TUDE		Р	IN NO).	
REF.NO	TYPE	+12V	+5V	GND	-5V	-12V
IC101	TL770SCP		8	4		
IC102	SN74LS133N		16	8		
IC103	SN7407N		14	7		
IC104	SN74LS157N		16	8		
IC105	SN74LS157N		16	8		
IC106	SN74LS367AN		16	8		
IC107	SN74LS367SN		16	8		
IC108	RP5C01	Refer		chema	tic Di	agram
IC109	MBM27C256-25		28	14		
IC110	AY3-3-8910		40	1		
IC111	MPD8255AC-5		26	7		
IC112	SN74LS175N		16	8		
IC113	SN74LS32N		14	7		
IC114	MBM27C256-25		28	14		
IC115	MB81464-12		9	18		
IC116	SN74LS157N		16	8		
IC117	SN74LS157N		16	8		
IC118	SN74LS00N		14	7		
IC119	SN74LS139N		16	8	1	
IC120	MBM27C256-25		28	14		
IC121	MB81464-12		9	18		
IC122	SN74LS157N		16	8	ŀ	
IC124	SN74LS367AN		16	8		
IC125	SN74LS367AN		16	8		
IC126	MB8416A-15P	1	24	12		
	-SK					i l
IC127	μPD780C-1, Z80A		11	29		
IC128	SN74LS245N		20	10		
IC129	CXD1032Q	ŀ	19, 43	6, 31		
IC130	SN74LS367AN		16	8		
IC131	SN7404N		-14	7	1	
IC132	SN74LS245N		20	10		
IC133	TL431CP	Refe		Schema	atic D	iagram
IC134	WD2793A-PL02		21	20	•	
IC135	SN74LS74AN		14	7	ŀ	
IC136	SN74LS125AN		14	7		
IC137	SN7406N		14	7		
IC138	SN74LS244N		20	10		
IC139	SN74LS21N		14	7		
IC140	SN74LS74AN		14	7		
IC141	SN74LS138N		16	8		
IC142	SN74LS32N		14	7		
IC143	SN74LS32N		14	7		
IC144	SN74LS08N		14	7		
IC145	SN74LS04N		14	7		
IC146	SN74LS74AN		14	7		İ
IC147	SN74LS156N		16	8		

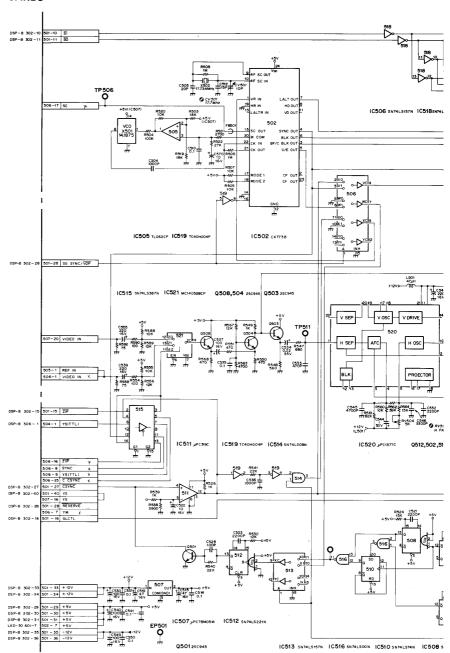
DEENO	TYPE	PIN NO.				
REF.NO	ITPE	+12V	+5٧	GND	−5 V	-12V
IC148	SN74LS00N		14	7		
IC149	SN74LS08N		14	7		
IC150	SN74LS02N		14	7		
IC151	SN74LS12N		14	7		
IC152	μPD8253C-5		24	12		
IC153	SN74LS32N		14	7		
IC154	SN74LS32N		14	7		
IC155	SN74LS139N		16	8		
IC156	SN74LS155N	ļ	16	8		
IC157	SN74LS32N		14	7		
IC158	SN74LS32N		14	7		
IC159	SN74LS74AN	ŀ	14	7		
IC160	μPD8251AFC		26	4		
IC161	SN74LS367AN		16	8		
IC162	SN74LS367AN		16	- 8		
IC163	SN74LS155N		16	8		
IC164	SN74LS138N		16	8		
IC165	SN74LS14N		14	7		
IC166	SN74LS245N		20	10		
IC167	SN74LS367AN		16	8		
IC168	SN74L240N		20	10		
IC169	SN74LS367AN		16	8		
IC170	SN74LS138N		16	8		
IC171	SN74L138N		16	8	1	1
IC172	SN74LS139N		16	8	1	
IC173	SN74LS188N	Ì	14	7		
IC174	SN74L38AN		14	7		
IC175	SN74LS273N		20	10		
IC176	SN74LS153N		16	8		
IC177	SN74189AN		14	7		
IC178	SN74189AN		14	7		
IC179	SN74LS374N		20	10		
IC180	SN74LS74AN		14	7		

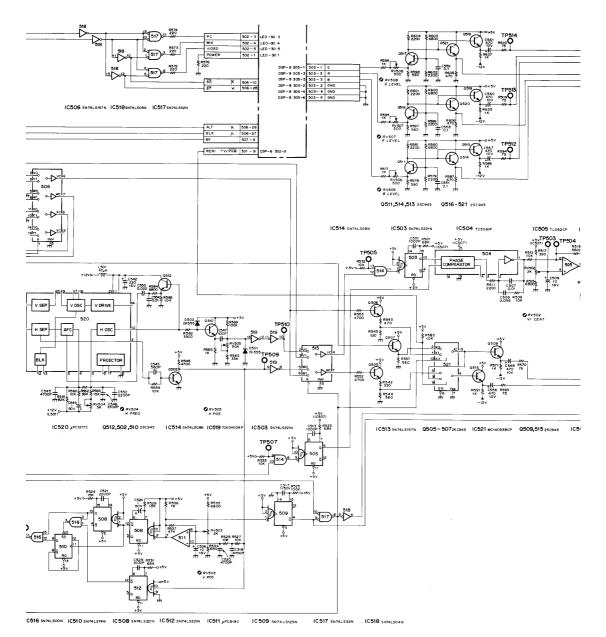
CN101	G-9	IC116	D-6	IC174	J-4
CN102	G-3	IC117	D-4	IC175	J-3
CN103	E-1	IC118	D-2	IC176	J-2
CN105	K-3	IC119	D-1	IC177	J-5
CN105	K-4	IC113	D-7		J-4
				IC178	
CN107	H-9	IC122	D-6	IC179	J-3
CN108	G-5	IC124	D-3	IC180	J-2
CN109	K-8	IC125	D-2		
CN110	A-6	IC126	E.9	L101	G-9
CN111	A-8	IC127	E ∙7	L102	E-2
		IC128	E-3		
CV101	B-2	IC129	E∙2	Q101	F·7
		IC130	F-7	Q102	F-9
D101	F-9	IC131	F-6	Q103	B-1
D102	F-9	IC132	F-4	Q104	H-9
D103	F-9	IC133	F-2		
D104	F-2	IC134	F-8	RB101	B-6
D105	E-5	IC135	G-6	RB102	B-8
D106	B-2	IC136	G-5	RB103	F-6
D111	C-1	IC137	G-3	RB104	E-1
D121	F-2	IC137	G-2	RB105	F-8
DIZI	F-2				
ED101		IC139	G-7	RB106	J-6
EP101	J-1	IC140	G-6	RB107	B-7
EP102	C-9	IC141	G-1	RB108	C-2
		IC142	H-8	RB109	H-7
FB101	A-6	IC143	H-7	RB111	K-4
FB102	A-6	IC144	H-6	RB112	G∙2
FB103	A-6	IC145	H-3	RB113	D-7
FB104	A-6	IC146	H-2		
FB105	A-7	IC147	H-1	RY101	F-9
FB106	A-7	IC148	H-9		
FB107	A-7	IC149	H-8	S101	A-1
FB108	A-7	IC150	H-7		
FB109	A-5	IC151	H-6	TH101	F-2
FB110	A-5	IC152	H-4		
FB111	A-6	IC153	H-3	TP101	E-4
FB112	A-7	IC154	H-2	TP102	E-4
FB113	D-8	IC155	H-1	TP103	F-3
FB114	D-4	IC156	1.9	TP104	B-2
FB115	D-3	IC150			
			I-8	TP105	B-2
FB116	G-6	IC158	1-7	V101	
FB119	G-4	IC159	1-6	X101	G-7
FB120	H-3	IC160	1-4	X102	D-4
		IC161	1.3	X103	H-4
IC101	A⋅2	IC162	I-1	X104	B-2
IC102	B-9	IC163	J. 9		
IC103	B-8	IC164	J-8		
IC104	B-7	IC165	J-7		
IC105	B-6	IC166	J.6		
IC106	B-5	IC167	1.3		
IC107	B-4	IC168	1-2		
IC108	C-2	IC169	J.9		
IC110	C-6	IC170	J-8		
IC111	C-4	IC170	J-7		
IC111	C-2	IC171	J-6		
IC115	D-7	IC173	J-5		

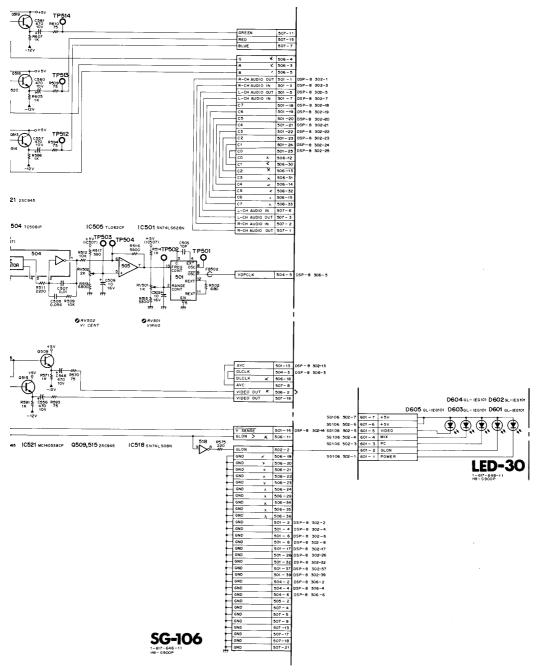




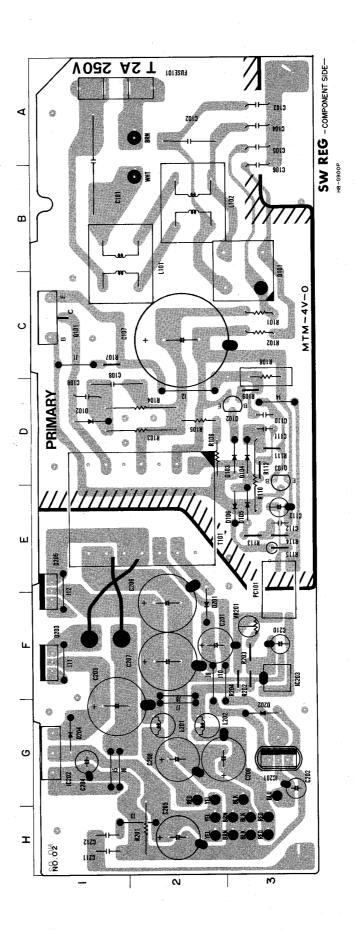
4-5. SG-106, LED-30 BOARDS

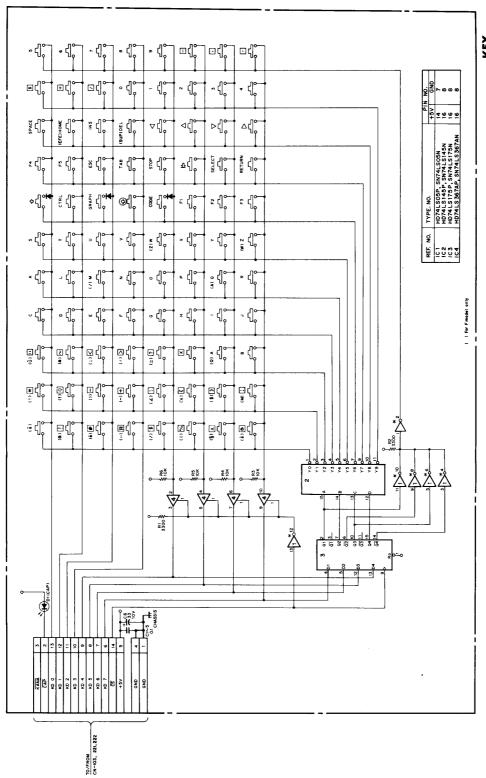




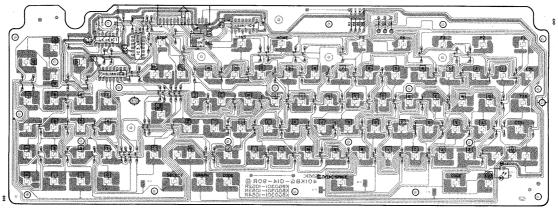




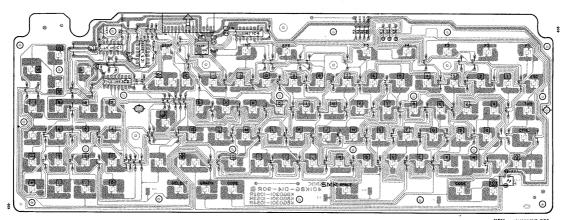




KEY 1-464-567-11 HB-G900P/F

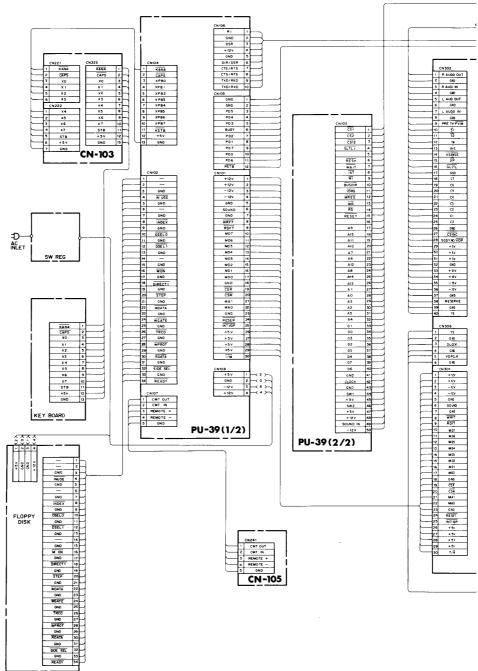


KEY - COMPONENT SIDE -1-464-567-11



KEY - COMPONENT SIDE 1-464-567-11 HB-G900F(FR)

4-8. FRAME



CHAPTER 5 ALIGNMENT

SG-106 BOARD ALIGNMENT

5-1. ADJUSTMENT

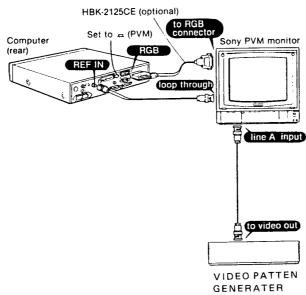
- (1) VDP clock adjustment (RV501 and RV502)
- (2) Subcarrier adjustment (CV501)
- (3) RGB level adjustment (RV506, RV507, and RV508)
- (4) AFC adjustment (RV504)
- (5) First field detector adjustment (RV503)
- (6) H-position (RV505)
- 2. Outline of Adjustment

5-1-1 VDP clock Adjustment (RV501 and RV502)

Equipment required: Oscilloscope, Frequency counter

- 1) Adjst RV501 (VCO (74LS628) range control) so that the level at TP502 (check land and test pin provided) is 3.3 V \pm 0.1. V
- 2) Short-circuit between TP505 and GND (one input signal from the PLL circuit is masked).
- 3) Adjust RV502 (V₁CENT: offset) so that the counter value at TP501 is 20.4 \pm 0.1 MHz.
- 4) Short-circuit between TP507 and GND (the other input signal from the PLL circuit is masked). Adjust RV501 so that the counter value at TP501 is 22.4 \pm 0.1 MHz.
- 5) Short-circuit between TP505 and GND.
- 6) Readjust as in Step 3.

Connection



5-2. PREPARTION

5-2-1. The Programming Example for Adjustment (BASIC)

```
1000 REM =============
1010 REM CHECK PROG for HB-G900P
1020 REM
            C[c]:COMPUTER-MODE
1030 REM
            S[s]:SUPERIMPOSE-MODE
1040 REM
            V[v]:VIDEO-MODE
1050 REM
            MCml:MIX-MODE
1060 REM
            W[w]:ALL-WHITE
1070 REM
            KCkl:ALL-BLACK
1080 REM
            B[b]:ALL-BLUE
1090 REM
           DEd3:VIDEOTIZE
1100 REM
           (SP):DRAW COLOR-BAR
1110 REM=================
1120 /
1130 SCREEN 5
1140 SET VIDEO 0,,,1,,1
1150
1160 COLOR=(15,7,7,7)
1170 COLOR=(10,5,5,0)
1180 COLOR=( 7,0,5,5)
1190 COLOR=( 2,0,5,0)
1200 COLOR=(13,5,0,5)
1210 COLOR=( 8,5,0,0)
1220 COLOR=( 4,0,0,5)
1230 COLOR=( 1,0,0,0)
1240 '----
1250 / DRAW COLOR-BAR
1260 /----
1270 COLOR ,0,0
1280 RESTORE 1340
1290 SET PAGE 0.0
1300 FOR I=0 TO 7
1310 READ C
1320
      LINE(I*32,0)-(I*32+31,211),C.BF
1330 NEXT I
1340 DATA 15,10,7,2,13,8,4,1
1350
1360 /-----
1370 / GET COMMAND
1380 /-----
1390 /
1400 A$=INKEY$:IF A$="" THEN GOTO 1400
1410 IF (A$="C" OR A$="c") THEN SET VIDEO 0,,,1,,1,1
1420 IF (A$="S" OR A$="s") THEN SET VIDEO 2,,,1,,1,1
1430 IF (A$="V" OR A$="v") THEN SET VIDEO 3,,,1,,1,0
1440 IF (A$="M" OR A$="m")THEN OUT &HF7,&H1C:VDF(10)=&H92
1450 IF (A$="W"OR A$="w") THEN SCREEN 0:COLOR=(15,7,7,7):COLOR 15,15,15
1460 IF (A$="K" OR A$="k") THEN SCREEN 0:COLOR=(1,0,0,0):COLOR 1,1,1
1470 IF (A$="B" OR A$="b") THEN SCREEN 0:COLOR=(4,0,0,7):COLOR 4,4,4
1480 IF (A$="D" OR A$="d") THEN GOTO 1520
1490 IF (As=" ") THEN SCREEN 5:GOTO 1240
1500 GOTO 1400
```

5-2-2. Set the Program given above to run Condition

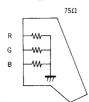
5-2-3 Subcarrier Adjustment (CV501)

Equipment required: Frequency Counter

1) Connect a counter to TP506. Adjust CV501 so that the level at TP506 is 4, 433.618 ± 10 Hz.

5-2-4 RGB Level Adjustment (RV506, RV507, and RV508)

Equipment required:Oscillosctpe, 21-pin 75-ohm terminator



- 1) Connect a 75-ohm terminator to the 21-pin connector.
- 2) key in "W" (screen appears white.)
- 3) Adjust RV506 so that the level at TP512 is 0. $7 \pm 0.02 \, \text{V}$. (B level)
- 4) Adjust RV507 so that the level at TP513 is 0. 7 \pm 0.02 V. (R level)
- 5) Adjust RV508 so that the level at TP514 is 0. 7 \pm 0.02 V. (G level)

5-2-5 AFC Adjustment (RV504)

The frequency is adjusted when $\mu PC1377$ is free running.

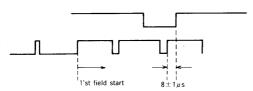
Equipment required: Oscilloscope

- 1) Connect an oscilloscope CH1 to TP510.
- 2) Adjust RV504 (H-FREQ) so that the level at TP510 is 64 \pm 0.5 μ s.



5-2-6 First Field Detector Adjustment (RV503)

Equipment required: Signal generator, oscilloscope

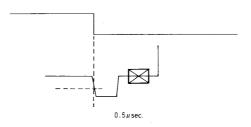


- 1) key in "S" (superimpose mode)
- Connect an oscilloscope CH1 to TP 508 and CH2 to TP509 (triggerable).
- 3) Adjust RV503 (V-POSITION) so that the level at TP508 and TP509 is 8 $\pm 1~\mu{\rm sec.}$

5-2-7 H-Position (RV505)

Equipment required:Oscilloscope, signal generator

- 1) key in "S" (superimpose mode)
- Connect an oscilloscope CH1 to TP501 and CH2 to TP511 (triggerable).



3) Adjust RV505 (H-POSITION) so that each trailing edge is the same. I/O Address Map $\,$

PU-39 BOARD ALIGNMENT

• VCO ADJ

Equipment required: Frequency counter

Condition: POWER switch to ON and after 3 minutes,

Connect jumper between TP103 and

GROUND

Check point: TP-101 Specification: 250 kHz±1.25 kHz

ADJ point: RV101

Note: atter adjustment, Remove the jumper

• Read pulse width ADJ

Equipment required: Oscilloscope

Condition: POWER switch to ON and after 3 minutes,

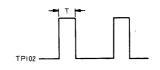
Connect jumper between TP103 and GROUND

Check point: TP102

Specification: $T = 0.5 \mu S \pm 10 \text{ nS}$

ADJ point: RV102

Note: atter adjustment, Remove the jumper

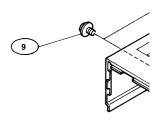


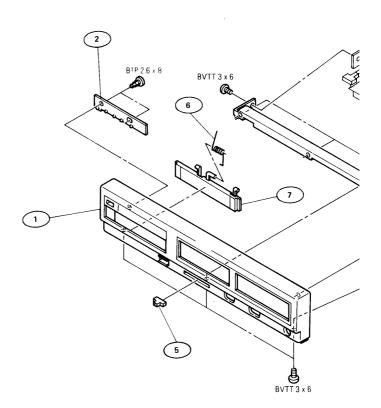
CHAPTER 6 REPAIR PARTS AND FIXTURE

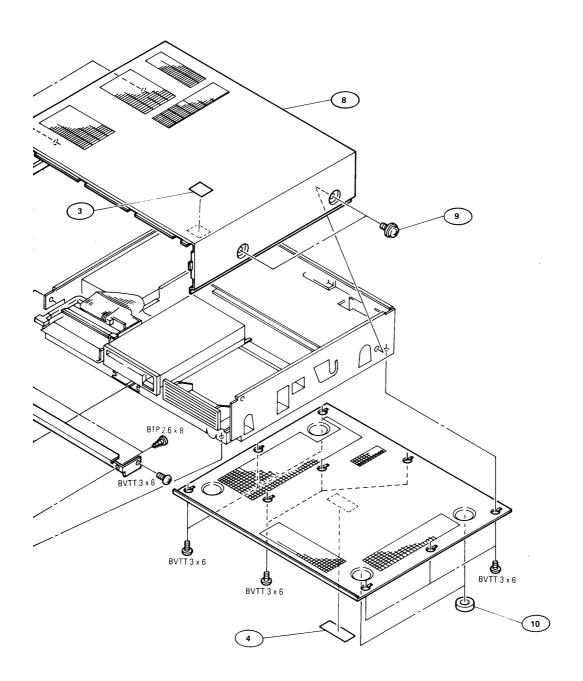
6-1. EXPLODED VIEWS

6-1-1. MAIN Assembly (1)

No.	Parts No.	Description
1	X-4604-446-01	PANEL ASSY, FRONT (For F Model)
	X-4604-444-1	PANEL ASSY, FRONT (For P Model)
2	1-617-648-11	PC BOARD,LED-30
3	3-703-710-01	STICKER, SONY SYMBOL (12)
4	4-605-478-01	LABEL, CAUTION
5	4-605-606-11	KNOB, CONTROL
6	4-605-615-01	SPRING
7	4-608-914-01	LID, CARTRIDGE
8	4-608-924-01	CASE
9	4-820-330-51	SCREW, BW, PLUS MINUS
10	4-838-906-01	FOOT,F

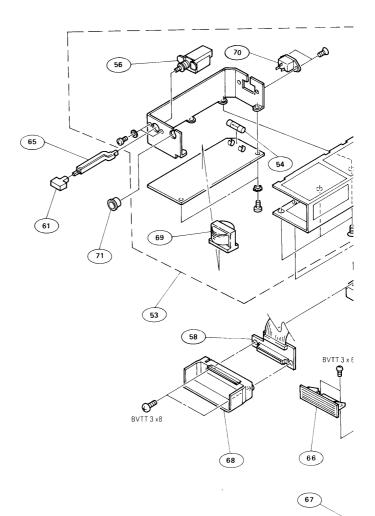






6-1-2. MAIN Assembly (2)

No	Parts No.	Description
51	A-8030-348-A	PANEL ASSY, FRONT
52	A-8080-122-A	MOUNTED PCB.PU-39
53	1-413-234-11	REGULATOR, SWITCHING
000000000000000000000000000000000000000		
∆ 54	1-532-203-11	FUSE
55	1-558-341-11	CABLE ASSY,FLAT (FDD)
350000000000000000000000000000000000000		
 £56	1-570-544-11	SWITCH POWER
57	1-617-647-11	PC_BOARD.VR-31
		PC_BOARD.CN-102
59	1-617-651-11	PC_BOARD.CN-103
		COVER.CONNECTOR
61	4-605-609-21	
61	4-605-609-21	BUTTON, POWER
62	4-606-087-03	BUTTON, EJECT
63	4-606-088-01	SPRING
6.4	4-606-092-02	LENS
65	4-608-619-01	ROD, PS
66	4-608-620-01	PLATE, BLIND
67	4-608-904-01	BUTTON, RESET
68	4-608-915-01	HOLDER, CARTRIDGE
A 69	9-989-666-01	TRANS
33		
70	9-989-667-01	INLET, 3P
71	9-989-668-01	BUSHING, CORD



NOTE:

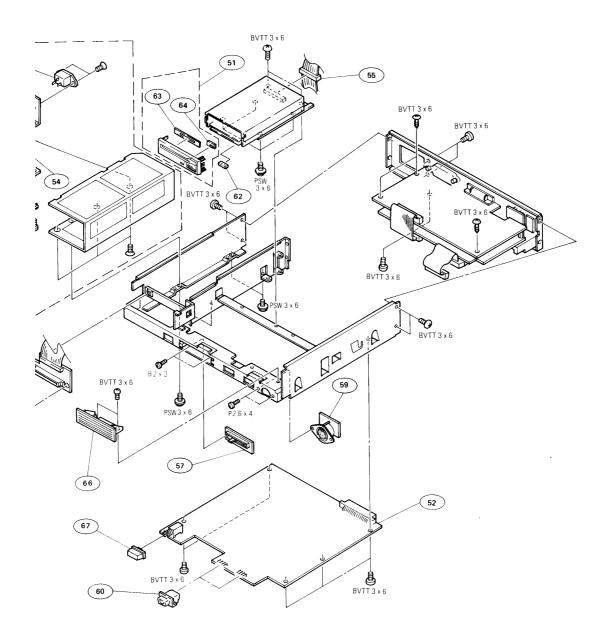
The shaded and M·marked components are critical to safety.

Replace only with same components as specified.

Parts printed in Bold-Face type are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.



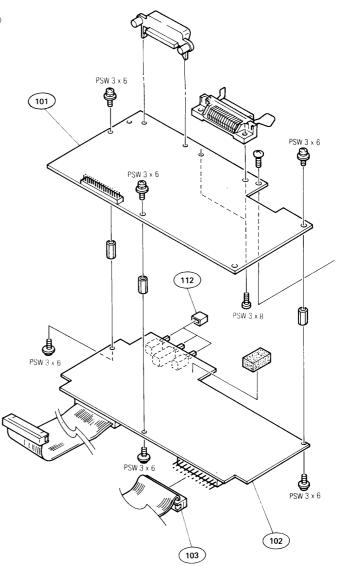
Ę

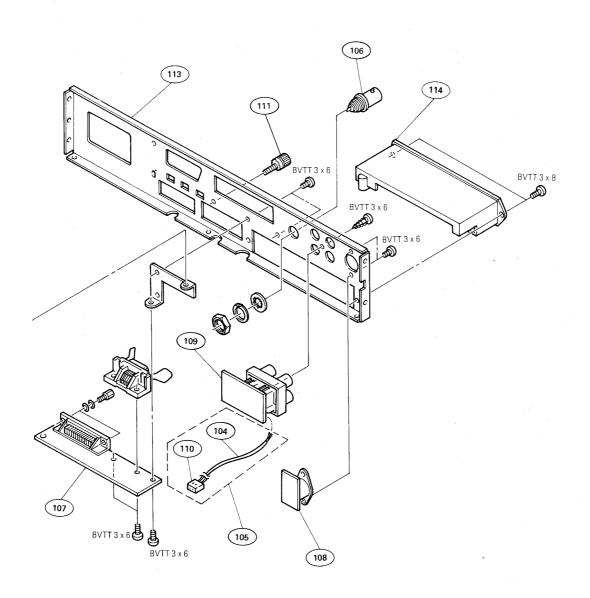


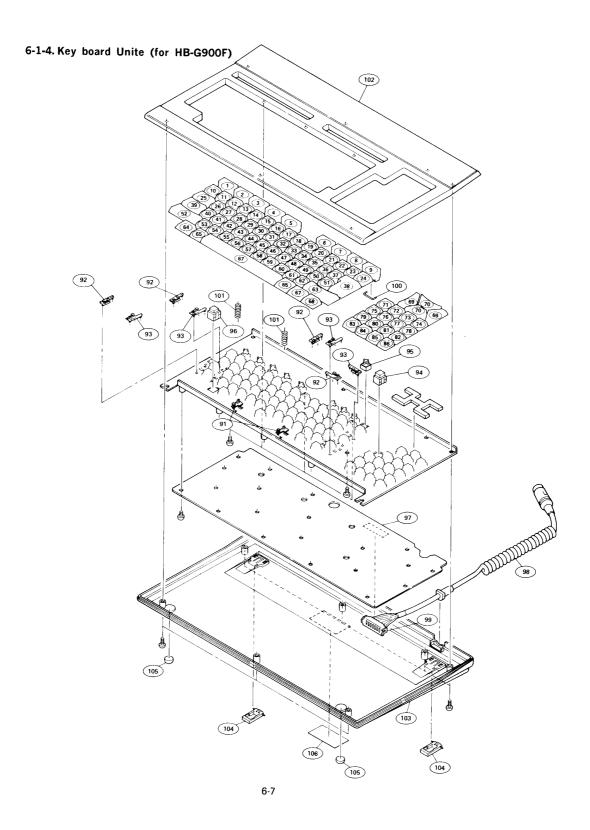
6-4 HB-G900P/F

6-1-3. Chassis Assembly

No	Parts No.	Description
101	A-8080-113-A	MOUNTED PCB,SG-106
102	A-8080-114-A	MOUNTED PCB,DSP-8
103	1-558-340-11	CABLE ASSY,FLAT 30P
104	1- 560-372-00	TERMINAL, SOLDERRLESS
105	1-561-514-11	CONNECTOR HOUSING,ILG(2P)
106	1-562-261-00	CONNECTOR, COAXIAL (BNC)
107	1-617-652-11	PC BOARD, CN-104
108	1-617-654-11	PC BOARD, CN-105
109	1-617-654-11	PC BOARD, CN-106
110	1-936-891-11	HARNESS (REF)
111	3-706-891-11	SCREW
112	4-025-004-00	BUTTON, SWITCH
113	4-608-626-01	PLATE, JACK
114	4-608-908-01	COVER, CARTRIDGE

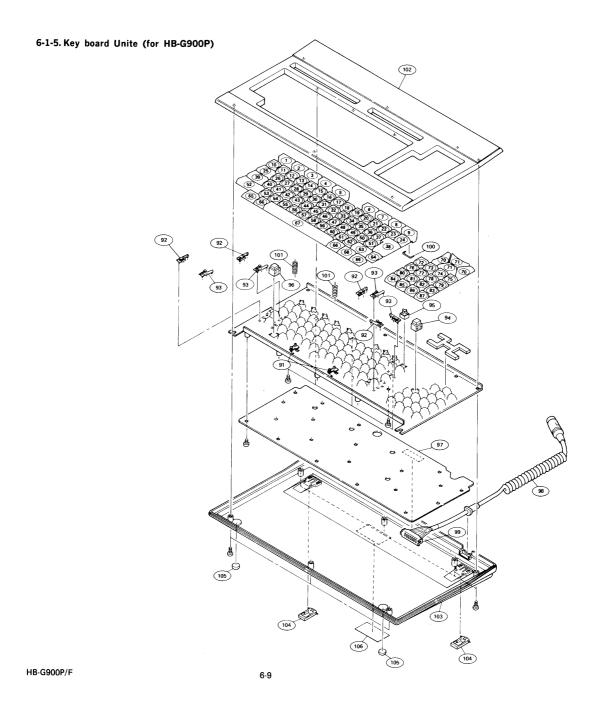






Ref. No.	Parts No.	Description	Ref. No.	Parts No.	Description
1	9-989-209-01	KEY TOP F1	56	9-989-412-01	KEY TOP V
2	9-989-210-01	KEY TOP F2			KEY TOP B
			57	9-989-413-01	
3	9-989-211-01	KEY TOP F3	58	9-989-414-01	KEY TOP N
4	9-989-212-01	KEY TOP F4	59	9-989-415-01	KEY TOP ?
5	9-989-213-01	KEY TOP F5	60	9-989-416-01	KEY TOP:
6	9-989-370-01	KEY TOP EFE	61	9-989-417-01	KEY TOP :
7	9-989-215-01	KEY TOP INS	62	9-989-418-01	KEY TOP =
	9-989-371-01	KEY TOP SUP			
8			63	9-989-422-01	KEY SHIFT RIGHT ASSY
9	9-989-217-01	KEY TOP STOP	64	9-989-363-01	KEY TOP (♠)
10	9-989-218-01	KEY TOP ESC	65	9-989-364-01	KEY TOP CODE.
11					
12	9-989-372-01	KEY TOP &	66	9-989-313-01	KEY SPACE ASSY
13	9-989-373-01	KEY TOP &	67	9-989-270-01	KEY TOP GRAPH
13	9-989-374-01	KEY TOP "			
			68	9-989-272-01	KEY TOP SELECT
14	9-989-375-01	KEY TOP '	69	9-989-273-01	CURSOR KEY SNY
15	9-989-376-01	KEY TOP (70	9-989-274-01	CURSOR KEY SNY
16	9-989-377-01	KEY TOP §	71	9-989-275-01	KEY TOP 7
17	9-989-378-01	KEY TOP è	72	9-989-276-01	KEY TOP 8
18	9-989-379-01	KEY TOP !			
			73	9-989-277-01	KEY TOP 9
19	9-989-380-01	KEY TOP ¢	74	9-989-278-01	KEY TOP /
20	9-989-381-01	KEY TOP à	75	9-989-279-01	KEY TOP 4
21	9-889-382-01	KEY TOP)	76	9-989-280-01	KEY TOP 5
22	9-989-383-01	KEY TOP —	77	9-989-281-01	KEY TOP 6
23	9-989-384-01	KEY TOP <	78	9-989-282-01	KEY TOP *
24	9-989-327-01	KEY TOP 🌣			•
			79	9-989-283-01	KEY TOP 1
25	9-989-233-01	KEY TOP TAB	80	9-989-284-01	KEY TOP 2
		KEY TOP A			
26	9-989-385-01		81	9-989-285-01	KEY TOP 3
27	9-989-386-01	KEY TOP Z	82	9-989-286-01	KEY TOP -
28	9-989-387-01	KEY TOP E	83	9-989-287-01	KEY TOP 0
29	9-989-388-01	KEY TOP R			
	9-989-389-01	KEY TOP T	84	9-989-288-01	KEY TOP .
30	3-303-303-01		85	9-989-289-01	KEY TOP ,
		KEY TOD V			
31	9-989-390-01	KEY TOP Y	86	9-989-290-01	KEY TOP +
32	9-989-391-01	KEY TOP U	87		
33	9-989-392-01	KEY TOP I	88		
34	9-989-393-01	KEY TOP O			
	9-989-394-01	KEY TOP P	89		
35	3-303-334-01		90		
		KEY TOP 🔆			
36	9-989-395-01	KEY TOP \$	91	9-989-291-01	HOOK A
37	9-989-396-01		92	9-989-292-01	HOOK C
38	9-989-369-01	KEY RETURN ASSY	93	9-989-293-02	NOOK D
39	9-989-310-01	KEY CTRL ASSY	94	9-989-294-01	KEY SWITCH
	9-989-397-01	KEY TOP Q			KEY SWITCH
40	3 333 337 31		95	9-989-295-01	KET SWITCH
		KEY TOP S			
41	9-989-398-01		96	9-989-296-01	KEY SWITCH
42	9-989-399-01	KEY TOP D	97	9-989-419-01	PW BOARD
43	9-989-400-01	KEY TOP F	98	9-989-366-01	CONNECTOR, CORDE ASSY
44	9-989-401-01	KEY TOP G	99	9-989-299-01	CONNECTOR
	9-989-402-01	KEY TOP H		9-989-300-01	CRANK SHAFT
45	3-303-402-01		100	9-909-300-01	CHARK SHALL
		KEY TOP J			
46	9-989-403-01		101	9-989-301-01	SPRING
47	9-989-404-01	KEY TOP K	102	9-989-303-01	CASE, UPPER
48	9-989-405-01	KEY TOP L	103	9-989-304-01	CASE, LOWER
49	9-989-406-01	KEY TOP M		9-989-305-01	BLACKET
	9-989-407-01	KEY TOP ù	104	9-989-306-01	FOOD, RUBBER
50	J-303-4U1-UI		105	J-303-300-UI	, GOD, ROBBER
		KEY TOP #			
51	9-989-408-01		106	9-989-421-01	LABEL(A) KBD-2F
52	9-989-311-01	KEY SHIFT LEFT ASSY			
53	9-989-409-01	KEY TOP W			
54	9-989-410-01	KEY TOP X			
	9-989-411-01	KEY TOP C			
55	3-303-411-01				

6-8 HB-G900P/F



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Discription
                                           Ref,NO
                                                    Part.NO
Ref.NO
        Part, NO
                        Discription
                                                                   KEY TOP V
                                                    9.989.355.01
                      KEY TOP F1
                                              56
       9-989-209-01
  1
                                                                   KEY TOP B
                                              57
                                                    9-989-356-01
                      KEY TOP F2
       9-989-210-01
   2
                                                    9-989-357-01
                                                                   KEY TOP N
                      KEY TOP F3
                                              58
   3
      9-989-211-01
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                                                    9-989-358-01
                                                                   KEY TOP M
       9-989-212-01
                      KEY TOP F4
                                                                   KEY TOP ,
                                                    9-989-359-01
                      KEY TOP F5
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       9-989-213-01
                                                                   KEY TOP .
                      KEY TOP HOME
                                              61
                                                    9-989-360-01
   6
       9-989-214-01
                                                                   KEY TOP /
                                                    9-989-361-01
                                              62
       9-989-215-01
                      KEY TOP INS
                                                                   KEY SHIFT RIGHT ASSY
                      KEY TOP DEL
                                              63
                                                    9-989-312-01
   8
       9-989-216-01
                                                                   KEY TOP STOP
                                               64
                                                    9-989-362-01
       9-989-217-01
   9
                      KEY TOP ESC
                                                                   KEY TOP ①
                                              65
                                                    9-989-363-01
  10
       9-989-228-01
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                                               66
                                                    9-989-364-01
       9-989-314-01
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                                                    9-989-313-01
                                                                   KEY SPACE ASSY
                      KEY TOP 2
       9-989-315-01
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                                                    9-989-270-01
                                                                   KEY TOP GRAPH
                      KEY TOP 3
       9-989-316-01
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                                                                    KEY TOP SELECT
                                                    9-989-272-01
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                                               69
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       9-989-318-01
                      KEY TOP 5
                                               70
                                                    9-989-273-01
  15
                                                                    CURSOR KEY SNY
                                               71
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                       KEY TOP 9
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       9-989-322-01
                                                                   KEY TOP /
                                                    9-989-278-01
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                                               75
                                                                    KEY TOP 4
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                                                    9-989-279-01
       9-989-324-01
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                                                    9-989-281-01
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       9-989-326-01
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       9-989-233-01
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                                                    9-989-284-01
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       9-989-328-01
                       KEY TOP Q
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                                                    9-989-285-01
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                       KEY TOP W
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                       KEY TOP E
                                               83
       9-989-330-01
  28
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                                               84
                                                    9-989-287-01
                       KEY TOP R
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       9-989-331-01
                                                    9-989-288-01
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       9-989-332-01
                       KEY TOP T
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                       KEY TOP Y
       9-989-333-01
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       9-989-334-01
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                                                                    HOOK C
                       KEY TOP O
                                               92
                                                    9-989-292-01
       9-989-336-01
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                                                                    HOOK D
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                                                    9-989-295-01
                                                                    KEY SWITCH
                       KEY TOP ]
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                                                    9-989-296-01
                                                                    KEY SWITCH
                       RETURN KEY ASSY
                                               96
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       9-989-369-01
                                                                    PW BOARD
                                                    9-989-365-01
                                               97
       9-989-310-01
                       CTRL KEY ASSY
  39
                                                                    CONNECTOR, CORDE ASSY
                                                    9-989-366-01
                       KEY TOP A
                                               98
       9-989-340-01
  40
                                                    9-989-299-01
                                                                    CONNECTOR
                       KEY TOP S
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                                                                    CRANK SHAFT
                                              100
                                                    9-989-300-01
                       KEY TOP D
  42
       9-989-342-01
                                                    9-989-301-01
                                                                    SPRING
                       KEY TOP F
                                              101
       9-989-343-01
  43
                                                     9-989-303-01
                                                                    CASE, UPPER
                       KEY TOP G
                                              102
       9-989-344-01
  44
                                              103
                                                     9-989-304-01
                                                                    CASE, LOWER
                       KEY TOP H
   45
       9-989-345-01
                                              104
                                                     9-989-305-01
                                                                    BLACKET
       9-989-346-01
                       KEY TOP J
   46
                                              105
                                                     9-989-306-01
                                                                    FOOT.RUBBER
                       KEY TOP K
   47
       9-989-347-01
                                                                    LABEL(A) KBD-2P
                                                     9-989-368-01
                       KEY TOP L
                                              106
        9-989-348-01
   48
                       KEY TOP;
        9-989-349-01
   49
       9-989-350-01
                       KEY TOP
   50
        9-989-351-01
                       KEY TOP £
                        KEY TOP
        9-989-311-01
   52
                        KEY TOP Z
        9-989-352-01
   53
                        KEY TOP X
   54
        9-989-353-01
        9-989-354-01
                        KEY TOP C
   55
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6-2. ELECTRICAL PARTS LIST

6-2-1. DSP-8 Board

Ref.No.	Parts No	Discripti	on			Ref.No.	Parts No	Discription
	A-8080-114-A	DSP-8 MOU	NT			CN301	1-563-109-11	CONNECTOR, P 30P
	1-562-528-11	CONNECTOR	ASSY (40P)		CN302	1-558-387-11	CABLE ASSY, FLAT 40P
	4-870-266-00	SUPPORT, B				CN303	1-560-361-00	CONNECTOR POST HEADER, ILG(8P)
			DOCK			CN304	1-560-366-00	CONNECTOR POST HEADER, ILG(8P)
						011304	1 300-300-00	CONNECTOR POST HEADER, ILG(4P)
2222						D301	8-719-815-55	DIODE 1S1555
C301	1-123-332-00		47MP		16V	D302	8-719-815-55	DIODE 1S1555
C302	1-123-321-00		220MP		16V	D303	8-719-815-55	DIODE 1S1555
C303	1-123-356-00		10MP	20%	16V			
C305	1-123-356-00		10MF		16V	PB301	1-154-247-21	BEAD, FERRITE
C306	1-123-356-00		10MF	20%	16v	PB302	1-154-247-21	BEAD, FERRITE
			10MF		16V			
C308	1-123-356-00	ELECT	10MF	20%	16V	IC301	8-759-700-65	IC NJM79L05A
C309	1-162-561-11		0,1MF		16V	IC302	8-759-240-52	IC TC4052BP
C310	1-162-561-11	CERAMIC	0,1MF		16V	IC303	8-759-240-52	IC TC4052BP
C311	1-123-333-00	ELECT .	100MF	20%	16V	IC304	8-759-910-04	IC SN74S04N
C312	1-123-333-00	ELECT	100MF	20%	16V	IC305	8-759-145-58	IC UPC4558C
								10 01013300
C313	1-123-356-00	ELECT	10MF	20%	16V	IC306	8-759-903-68	IC SN74LS368AN
C314	1-162-561-11	CERAMIC	0,1MF		16V	IC307	8-759-203-21	IC TC74HC273P
C315	1-123-321-00	ELECT	220MF	20%	16V	IC308	8-759-902-44	IC SN74LS244N
C316	1-123-356-00		10MF		16V	IC309	8-759-922-42	IC MB81464-12
C317	1-123-356-00		10MF		16V	IC310	8-759-922-42	IC MB81464-12
								10 1201101 12
C318	1-102-110-00	CERAMIC :	220PF	10%	50 V	IC311	8-759-922-42	IC MB81464-12
C319	1-162-561-11	CERAMIC (0.1MF		16V	IC312	8-759-922-42	IC MB81464-12
C322	1-123-356-00	ELECT	10MF	20%	16V	IC313	8-759-922-51	IC V9938
C323	1-123-356-00		10MF		16V			10 13330
C324	1-123-356-00		10MF		16V	L301	1-408-417-00	MICRO INDUCTOR 47UH
						L302	1-408-417-00	MICRO INDUCTOR 47UH
C325	1-162-561-11	CERAMIC (0,1MF		16V			meno impoción 470a
C326	1-162-561-11		0,1MF		16V	Q301	8-729-178-55	TRANSISTOR 2SC2785E
C327	1-123-356-00		10MF	20%	16V	0302	8-729-178-55	TRANSISTOR 2SC2785E
C328	1-123-333-00		100MF		16V	Q303	8-729-178-55	TRANSISTOR 2SC2785E
C329	1-162-561-11		0,1MF		16V	Q304	8-729-178-55	TRANSISTOR 2SC2785E
						Q305	8-729-178-55	TRANSISTOR 2SC2785E
C330	1-162-561-11	CERAMIC (0,1MF		16V	2000	0 .23 1,0 33	1MM31310K 23C2/63E
C331	1-162-561-11		0,1MP		16V	Q306	8-729-178-55	TRANSISTOR 2SC2785E
C332	1-162-561-11		0,1MF		16V	Q307	8-729-178-55	TRANSISTOR 2SC2785E
C333	1-162-561-11		0,1MF		16V	250,	0 723 170-33	IMMOISION 2SC2/03E
C334	1-123-356-00			20%				
C335	1-123-356-00	ELECT 1	LOMF	20%	16V			
C338	1-123-333-00			20%				
C339	1-123-333-00			20%				
C340	1-162-561-11		D,1MF		16V			
C341	1-162-561-11		,1MF		16V			
C342	1-123-333-00	ELECT 1	LOOMF	20%	16V			
C343	1-123-356-00			20%				
C344	1-162-561-11),1MF		16V			

Ref, No	Part, No	Discript	ıon			Ref.No	Part.No	Discription
R301	1-249-429-11	CARBON	10K	59	1 /6W	RB301	1-235-716-11	RES, ENCAPSULATED CERMET
R302	1-247-879-00	CARBON	100K			10501	1 233 /10 11	RDO/ ENGLIS CERCIES
R303	1-247-873-00	CARBON	56K			RY301	1-515-519-00	RELAY
R304	1-247-873-00	CARBON	56K			RY302	1-515-519-00	RELAY
R305	1-247-873-00	CARBON	100K			S301	1-552-425-00	SWITCH, PUSH
KJUJ	1-247-073-00	CARDON	TOOK	24	17011	S302	1-552-425-00	SWITCH, PUSH
R306	1-247-855-00	CARBON	10K		1 /6W	S303	1-553-261-00	SWITCH, PUSH
R307		CARBON	4.7K			3303	1-333-201-00	SWITCH, FUSH
	1-247-847-00					LED-30 BOARD		
R308	1-247-847-00	CARBON	4,7K			TED-20 BOWKD	3 637 640 33	DO DOIND 1 PD 30
R309	1-247-855-00	CARBON	10K				1-617-648-11	PC BOARD, LED-30
R310	1-247-855-00	CARBON	10K	58	1/6W	DC01	0 710 027 45	Dropp or 1 pole1
						D601	8-719-937-45	DIODE GL-1EG101
R311	1-247-863-00	CARBON	22K			D602	8-719-937-45	DIODE GL-1EG101
R312	1-247-847-00	CARBON	4,7K			D603	8-719-937-45	DIODE GL-1EG101
R313	1-247-855-00	CARBON	10K			D604	8-719-937-45	DIODE GL-1EG101
R314	1-247-839-00	CARBON	2,2K			D605	8-719-937-45	DIODE GL-1EG101
R315	1-247-863-00	CARBON	22K	5%	1/6W			
						CN-102 BOARD		
R316	1-249-425-11	CARBON	4,7K	5%	1/6W		1-607-650-11	PC BOARD, CN-102
R317	1-247-831-00	CARBON	1K	5%	1/6W	CN211	1-558-339-11	CABLE ASSY, FLAT(SLT)
R318	1-249-425-11	CARBON	4.7K	5%	1/6W	CN212	1-562-383-00	SOCKET, CONNECTOR
R319	1-247-831-00	CARBON	1K		1/6W			
R320	1-247-863-00	CARBON			1/6W			
1020	1 24, 003 00	0.11.00.			2, 0	CN-104 BOARD)	
R321	1-247-829-00	CARBON	820K	52	1/6W	0.0 20. 50.22	1-617-562-11	PC BOARD, CN-104
R322	1-247-863-00	CARBON			1/6W	C231	1-101-004-00	CERAMIC 0,01MF 50V
R323	1-247-829-00	CARBON			1/6W	C232	1-101-004-00	CERAMIC 0,01MF 50V
R324		CARBON			1/6W	C233	1-101-004-00	CERAMIC 0,01MF 50V
	1-249-429-11					CN232		
R325	1-247-831-00	CARBON	1 K	2.8	1/6W	CN232 CN234	1-563-161-11	CONNECTOR, D-SUB (MOUNT TYPE) 25P
		a	220			CN234	1-562-856-21	CONNECTOR 14P
R326	1-247-819-00	CARBON	330		1/6W	0001	0 710 011 10	DYODE 100110
R327	1-247-863-00	CARBON			1/6W	D231	8-719-911-19	DIODE 188119
R328	1-247-863-00	CARBON	22		1/6W	D232	8-719-911-19	DIODE 1SS119
R329	1-249-429-11	CARBON			1/6W	D233	8-719-911-19	DIODE 1SS119
R330	1-249-429-11	CARBON	10K	5%	1/6W	RY231	1-515-519-00	RELAY
						RY232	1-515-519-00	RELAY
R331	1-249-429-11	CARBON	10K		1/6W	RY233	1-515-519-00	RELAY
R332	1-247-863-00	CARBON	22K		1/6W			
R333	1-249-425-11	CARBON	4,7K	5%	1/6W	CN-105 BOARD		
R334	1-247-804-00	CARBON	75	5%	1/6W		1-617-653-11	PC BOARD, CN-105
R335	1-247-873-00	CARBON	56K	5%	1/6W	CN242	1-563-103-11	JACK, DIN 8P
								·
R336	1-247-873-00	CARBON	56K	5%	1/6W	CN-106 BOARD		
R337	1-249-425-11	CARBON			1/6W		1-617-654-11	PC BOARD, CN-106
R338	1-249-425-11	CARBON			1/6W	CN422	1-507-909-11	JACK, PIN 4P
R339	1-247-829-00	CARBON	820		1/6W			
R340	1-247-829-00	CARBON	820		1/6W	CN-103 BOARD		
NJ40	1 247 023 00	CALDON	020	-	1,011	on 103 Doile	1-617-651-11	PC BOARD, CN-103
R341	1-249-421-11	CARBON	2.24	58	1/6W	CN223	1-563-111-11	JACK, 13P
R342	1-249-421-11	CARBON			1/6W			0110M/ 4.72
R342 R343	1-249-421-11	CARBON			1/6W			
KJ4J	1-243-421-11	CHRBUN	2,2K	34	1/0W	VR-31 BOARD		
						AY-21 BOWED	1-617-647-13	DC DONDO UD-31
						VD411	1-617-647-11	PC BOARD, VR-31
						VR411	1-228-882-00	RES, VAR, SLID 100K

6-2-2. PU-39 Board

Ref.No.	Parts No	Discript	:10n		Ref, No	Part, No	Discript	10n		
A-8080-122-A	MOUNTED PCB, PU-	-20			C161	1-123-308-00	ELECT	220MF	20%	10V
		-33								
3-662-073-00	COVER, CONTROL				C162	1-123-321-00	ELECT	220	20%	16V
					C163	1-123-321-00	ELECT	220MF	20%	16V
BAT1	1-152-171-11		STORAGE, NI		C171	1-123-316-00	ELECT	10MF	20%	16V
C101	1-162-561-11	CERAMIC		16V	C172	1-123-318-00	ELECT	33MF	20%	16V
C102	1-162-561-11	CERAMIC	0,1MF	16V						
C103	1-162-561-11	CERAMIC	0,1MP	16V	C173	1-102-518-00	CERRAMIC	33PF	5%	50V
C104	1-162-561-11	CERAMIC	O,1MPF	16V	C174	1-123-356-00	ELECT	10MF	20%	16V
					C175	1-123-356-00	ELECT	10MF	20%	16V
C105	1-162-561-11	CERAMIC	0,1MF	16V	C176	1-123-356-00	ELECT	10MF	20%	16V
C106	1-162-561-11	CERAMIC	0,1MF	16V	C177	1-101-974-00	CERAMIC	20PF	5%	50V
C107	1-162-561-11	CERAMIC	0,1MF	16V	CITT	1-101-374-00	CERMAIC	ZUFF	36	30 V
C108	1-162-561-11	CERAMIC			C178	1-101-074-00	CEDANTC	2000		F011
C100			0,1MF	16V		1-101-974-00	CERAMIC	20PF	5%	50V
C103	1-162-561-11	CERAMIC	0,1MF	16V	C180	1-123-332-00	ELECT	47MF	20%	16V
					C181	1-123-356-00	ELECT	10MF	20%	16V
C110	1-162-561-11	CERAMIC	0,1MF	16V	C182	1-123-369-00	ELECT	4,7MP	20%	25V
C112	1-162-561-11	CERAMIC	0,1MF	16V	C183	1-130-499-00	MYLAR	0,22MF	5%	50V
C113	1-162-561-11	CERAMIC	0,1MP	16V						
C114	1-162-561-11	CERAMIC	0,1MF	16V	C184	1-101-004-00	CERAMIC	0,01MF		50V
C115	1-162-561-11	CERAMIC	0,1MF	16V	C185	1-101-005-00	CERAMIC	0,022MF		50V
					C186	1-136-173-00	FILM	0,47MP	5%	50V
C116	1-162-561-11	CERAMIC	0,1MF	16V	C187	1-101-004-00	CERAMIC	0.01MP		50 V
C117	1-162-561-11	CERAMIC	0,1MFF	16V	C188	1-102-518-00	CERAMIC	33PF	5%	50V
C118	1-162-561-11	CERAMIC	0,1MF	16V	CIOO	1 102 310 00	CDIGHTIC	JJFF	20	JU V
C119	1-162-561-11	CERAMIC			C189	1-102-519-00	CEDANTO	2200		
C120			0,1MF	16V		1-102-518-00	CERAMIC	33PF	5%	50V
C120	1-162-561-11	CERAMIC	0,1MF	16V	C190	1-102-518-00	CERAMIC	33PF	5%	50V
a					C191	1-101-004-00	CERAMIC	0,01MF		50 V
C121	1-101-004-00	CERAMIC	0,01MF	50V	C192	1-102-074-00	CERAMIC	0,001MF		50V
C122	1-162-561-11	CERAMIC	0,1MF	16V	C193	1-102-074-00	CERAMIC	0,001MF	10%	50V
C123	1-162-561-11	CERAMIC	0,1MF	16V						
C124	1-162-561-11	CERAMIC	0,1MFF	16V	C194	1-123-356-00	ELECT	10MF	20%	16V
C125	1-162-561-11	CERAMIC	0,1MF	16V	C196	1-123-356-00	ELECT	10MP	20%	16V
					C197	1-102-515-00	CERAMIC	24PF	5%	50V
C126	1-162-561-11	CERAMIC	0,1MF	16V	C198,	1-123-356-00	ELECT	10MF	20%	16V
C127	1-162-561-11	CERAMIC	0,1MF	16V	C199	1-123-332-00	ELECT	4,7MF	20%	16V
C129	1-162-561-11	CERAMIC	0,1MF	16V				.,		
C130	1-162-561-11	CERAMIC	0,1MF	16V	CN101	1-506-612-11	CONNECTO	D D/DID	mvne1	20n
C131	1-162-561-11	CERAMIC	0,1MF	16V	CN102	1-564-399-11	CONNECTO			
CIJI	1-102-301-11	CERMAIC	U,IMF	10 4	CN102 CN103	1-506-658-11	HEADER 50		1116,	342
C132	1-162-561-11	CEDANTO	0.140	36						
	1-162-561-11	CERAMIC	0,1MF	16V	CN105	1-560-363-00				, ILG(12P)
C133	1-162-561-11	CERAMIC	0,1MF	16V	CN106	1-560-362-00	CONNECTO	R POST H	RADER	, ILG(10P)
C134	1-162-561-11	CERAMIC	0,1MPF	16V						
C135	1-162-561-11	CERAMIC	0,1MF	16V	CN107	1-560-359-00	CONNECTO			
C136	1-162-561-11	CERAMIC	0,1MF	16V	CN108	1-564-421-11	HEADER, SI		WER)	4P
					CN109	1-562-626-11	SOKET, CO			
C137	1-162-561-11	CERAMIC	0,1MF	16V	CN110	1-564-372-00	PIN, CONNI	ECTOR 9P		
C138	1-162-561-11	CERAMIC	0,1MF	16V	CN111	1-564-372-00	PIN, CONNI	ECTOR 9P		
C139	1-162-561-11	CERAMIC	0,1MF	16V						
C140	1-162-561-11	CERANIC	0,1MFF	16V	CV101	1-141-254-00	CAP, TRIM	MER		
C141	1-162-561-11	CERAMIC	0,1MF	16V	D101	8-719-911-19	DIODE 15			
			.,		D102	8-719-911-19	DIODE 1S			
C142	1-162-561-11	CERAMIC	0,1MF	16V	D103	8-719-911-19	DIODE 1S			
C143	1-162-561-11	CERAMIC	0,1MF	16V	D104	8-719-911-19	DIODE 15			
C144	1-162-561-11	CERAMIC	0,1MF	16V	2104	0 ,13-311-13	P10DE 19	3113		
C145					D105	9 710 011 10	DIODD 10			
	1-162-561-11	CERAMIC	0,1MF	16V	D105	8-719-911-19	DIODE 1S			
C146	1-162-561-11	CERAMIC	0,1MF	16V	D106	8-719-981-01	DIODE ERA	No.1-004		
a1 45					D111	8-719-101-49	RD5,1EL1			
C147	1-162-561-11		0,1MFF	16V	D121	8-719-908-57	DIODE SVO	2203		
C148	1-162-561-11	CERAMIC	0,1MF	16V						
C149	1-162-561-11	CERAMIC	0,1MF	16V						
C127	1-162-561-11	CERAMIC	0,1MF	16V						

Ret.No	Part.No	Discription	Ref.No.	Parts No	Discription
PB101	1-543-274-21	BEAD, FERRITE	IC133	8-759-911-41	IC TL431CP
FB102	1-543-274-24	BEAD, FERRITE	IC134	8-759-131-11	IC UPC311C
PB103	1-543-274-21	BEAD, FERRITE	IC135	8-759-900-74	IC SN74LS74AN
FB104	1-543-274-24	BEAD, FERRITE	IC136	8-759-901-25	IC SN74LS125AN
FB105	1-543-274-21	BEAD, FERRITE	IC137	8-759-974-06	IC SN7406N
DD106	1 542 274 14	DDAR DDDDAMD	TC120	0.750.002.44	TO 00741 00440
FB106	1-543-274-14	BEAD, FERRITE	IC138 IC139	8-759-902-44	IC SN74LS244N
FB107	1-543-274-21	BEAD, FERRITE	IC140	8-759-900-21	IC SN74LS21N
FB108	1-543-274-24	BEAD, FERRITE	IC140 IC141	8-759-900-74	IC SN74LS74AN
FB109	1-543-274-21	BEAD, FERRITE	IC141 IC142	8-759-901-38	IC SN74LS138N
FB110	1-543-274-24	BEAD, FERRITE	10142	8-759-900-32	IC SN74LS32N
FB111	1-543-274-21	BEAD, FERRITE	IC143	8-759-900-32	IC SN74LS32N
FB112	1-543-274-24	BEAD, FERRITE	IC144	8-759-900-08	IC SN74LS08N
FB113	1-543-274-21	BEAD, FERRITE	IC145	8-759-900-04	IC SN74LS04N
FB114	1-543-274-24	BEAD, FERRITE	IC146	8-759-900-74	IC SN74LS74AN
FB115	1-543-274-21	BEAD, FERRITE	IC147	8-759-901-56	IC SN74LS156N
10113	1 343 274 21	BEAD, I BRAILE	10117	0 733 301 30	1C 3M/4LS130M
FB116	1-543-274-24	BEAD, FERRITE	IC148	8-759-900-00	IC SN74LS00N
FB119	1-543-274-24	BEAD, FERRITE	IC149	8-759-900-08	IC SN74LS08N
FB120	1-543-274-24	BEAD, FERRITE	IC150	8-759-900-02	IC SN74LS02N
		• •	IC151	8-759-900-12	IC SN74LS12N
IC101	8-759-908-35	IC TL7705CP	IC152	8-759-182-53	IC UPD8253C-5
IC102	8-759-904-53	IC SN74ALS133N			
IC103	8-759-974-07	IC SN7407N	IC153	8-759-900-32	IC SN74LS32N
IC104	8-759-901-57	IC SN74LS157N	IC154	8-759-900-32	IC SN74LS32N
IC105	8-759-901-57	IC SN74LS157N	IC155	8-759-901-39	IC SN74LS139N
			IC156	8-759-901-55	IC SN74LS155N
IC106	8-759-903-67	IC SN74LS367SN	IC157	8-759-900-32	IC SN74LS32N
IC107	8-759-903-67	IC SN74LS367SN			
IC108	8-759-910-57	IC RP5C01	IC158	8-759-900-32	IC SN74LS32N
IC 109			IC159	8-759-900-74	IC SN74LS74AN
IC110	8-759-908-60	IC AY3-3-8910	IC160	8-759-103-27	IC UPD8251AFC
10110	0 733 300 00	IC A13-3-0310	IC161	8-759-903-67	IC SN74LS367AN
IC111	8-759-182-55	IC UPD8255AC-5	IC162	8-759-903-67	IC SN74LS367AN
ICIII	8-759-834-11	IC SOCKET, IC 28P			10 00.120307100
IC112	8-759-901-75	IC SN74LS175N	IC163	8-759-901-55	IC SN74LS155N
IC113	8-759-900-32	IC SN74LS32N	IC164	8-759-901-38	IC SN74LS138N
IC114	8-759-925-61	MB83256-252(for HB-G900P)	IC165	8-759-900-14	IC SN74LS14N
		(ioi 11B G/001)	IC166	8-759-902-45	IC SN74LS245N
IC 114	8-759-927-69	MB83256-254(for HB-G900F)	IC167	8-759-903-67	IC SN74LS367AN
IC115	8-759-922-42	IC MB81464-12			
IC116	8-759-901-57	IC SN74LS157N	IC168	8-759-902-40	IC SN74L240N
IC117	8-759-901-53	IC SN74LS157N	IC169	8-759-903-67	IC SN74LS367AN
IC118	8-759-900-00	IC SN74LS00N	IC170	8-759-901-38	IC SN74L138N
			IC171	8-759-901-38	IC SN74L138N
IC119	8-759-901-39	IC SN74LS139N	IC172	8-759-901-39	IC SN74LS139N
IC 120	8 - 759 - 926 - 62	MB83256-251(for HB-G900P)			
IC 120	8 - 759 - 927 - 68	MB83256-253(for HB-G900F)	IC173	8-759-951-88	IC SN74LS188N
IC121	8-759-922-42	IC MB81464-12	IC174	8-759-974-38	IC SN74L38NN
IC122	8-759-901-57	IC SN74LS157N	IC175	8-759-902-73	IC SN74LS273N
10122	0 /33 301 3/	1C 5M/4E515/M	IC176	8-759-901-53	IC SN74LS153N
IC124	8-759-903-67	IC SN74LS367AN	IC177	8-759-951-89	IC SN74189AN
IC125	8-759-903-67	IC SN74LS367AN			
IC126	8-759-911-93	IC MB8416A-15P-SK	IC178	8-759-951-89	IC SN75189AN
IC127	1-526-835-11	IC SOCKET, IC 40P	IC179	8-759-903-74	IC SN74LS374N
IC127	8-759-107-81	IC UPD780C-1	IC180	8-759-900-74	IC SN74LS74AN
		10 012/000 1		· •	
IC128	8-759-902-45	IC SN74LS245N			
IC129	8-759-922-98	IC CXD1032Q			
IC130	8-759-903-67	IC SN74LS367AN			
IC131	8-759-974-04	IC SN7404N			
IC132	8-759-902-45	IC SN74U4N IC SN74LS245N			
	13				
IC132	1-526-835-11	IC SOCKET, IC 40P			
IC134	8-759-910-82	IC WD2793A-PL02			

6-14 HB-G900P/F

Ref,No	Part, No	Discription	Ref.No	Part.No	Discrip	tion
Q101	8-729-173-37	TRANSISTOR 2SA773P	R160	1-249-425-11	CARBON	4 7850 1750
Q102	8-729-173-37	TRANGISTOR 2SA773P	R161	1-249-429-11	CARBON	4.7K5% 1/6W
Q103	8-729-173-37	TRANGISTOR 2SA773P	R162	1-247-879-00		10K 5% 1/6W
	- 1-1 -11 -11	ILLEGISION ZONIISE	R163	1-247-823-00	CARBON	100K5% 1/6W
			R164		CARBON	470 5% 1/6W
R105	1-247-831-00	CARBON 1K 5% 1/6W	WI04	1-249-437-11	CARBON	47K 5% 1/6W
R106	1-247-831-00		R165	1 047 043 00		
R107	1-247-827-00		R166	1-247-843-00	CARBON	3,3K5% 1/6W
R108	1-247-827-00			1-247-869-00	CARBON	39K 5% 1/6W
R109		CARBON 470 5% 1/6W	R167	1-249-429-11	CARBON	10K 5% 1/6W
KIUJ	1-247-823-00	CARBON 470 5% 1/6W	R168	1-247-831-00	CARBON	1K 5% 1/6W
R110	1 247 055 00	21 nn au	R171	1-249-425-11	CARBON	4,7K5% 1/6W
Rlll	1-247-855-00	CARBON 10K 5% 1/6W	53.50			
	1-247-863-00	CARBON 22K 5% 1/6W	R172	1-249-429-11	CARBON	10K 5% 1/6W
R112	1-247-831-00	CARBON 1K 5% 1/6W	R173	1-249-429-11	CARBON	10K 5% 1/6W
R113	1-249-429-11	CARBON 10K 5% 1/6W	R174	1-249-425-11	CARBON	4,7K5% 1/6W
R115	1-247-903-00	CARBON 1M 5% 1/6W	R177	1-247-863-00	CARBON	22K 5% 1/6W
			R180	1-247-831-00	CARBON	1K 5% 1/6W
R116	1-247-863-00	CARBON 22K 5% 1/6W				IN 30 170W
R117	1-249-429-11	CARBON 10K 5% 1/6W	R181	1-247-831-00	CARBON	1K 5% 1/6W
R118	1-249-429-11	CARBON 10K 5% 1/6W	R182	1-247-837-00	CARBON	1,8K5% 1/6W
R121	1-247-791-00	CARBON 22 5% 1/6W	R183	1-247-825-00	CARBON	560 5% 1/6W
R122	1-247-791-00	CARBON 22 5% 1/6W	R184	1-247-815-00	CARBON	220 5% 1/6W
			R185	1-249-429-11	CARBON	10K 5% 1/6W
R124	1-247-791-00	CARBON 22 5% 1/6W		125 11	CARBON	TOV 28 T\0M
R125	1-247-833-00	CARBON 1,2K5% 1/6W	R186	1-247-831-00	CARBON	1K 5% 1/6W
R126	1-247-815-00	CARBON 220 5% 1/6W	R187	1-247-831-00	CARBON	
R1 27	1-247-696-11	CARBON 47 5% 1/6W	R195	1-247-852-00		1K 5% 1/6W
R128	1-247-831-00	CARBON 1K 5% 1/6W		1 247-032-00	CERAMIC	47PF5% 1/6W
R1 29	1-247-815-00	CARBON 220 5% 1/6W				
R130	1-247-831-00	CARBON 1K 5% 1/6W				
R131	1-247-783-00	CARBON 10 5% 1/6W				
R133	1-247-859-00	CARBON 15K 5% 1/6W				
R134	1-247-879-00	CARBON 100K5% 1/6W				
	1 24. 075 00	CHEDON TOOKSE 1/6W				
R135	1-247-836-00	CARBON 1,6K5% 1/6W				
R136	1-247-842-00	CARBON 3K 5% 1/6W				
R137	1-247-823-00	CARBON 470 5% 1/6W				
R138	1-249-421-11					
R139	1-247-825-00					
IQ 37	1-247-825-00	CARBON 560 5% 1/6W				
R140	1-247-825-00	CARBON 560 5% 1/6W				
R143	1-247-831-00					
R144	1-247-795-00					
R145		CARBON 33 5% 1/6W				
R147	1-247-847-00	CARBON 4,7K5% 1/6W				
N4 4 /	1-247-831-00	CARBON 1K 5% 1/6W				
R148	1-247-962 00	G10001 001 50 1/51				
R149	1-247-863-00	CARBON 22K 5% 1/6W				
R150	1-247-841-00	CARBON 2,7K5% 1/6W				
R151	1-247-863-00	CARBON 22K 5% 1/6W				
	1-247-863-00	CARBON 22K 5% 1/6W				
R155	1-247-831-00	CARBON 1K 5% 1/6W				

6-2-3. SG-106 Board

Ref.No	. Parts No	Discription		Ref,No	Part, No	Discript	ion		
RB101	1-235-724-	11 RES, ENCAPSULATED	CERMET	A-8080-113-A	SG-106 MOUNT				
RB102	1-235-724-								
RB103	1-235-724-			C501	1-130-471-00	MYLAR	0,001MF 5	8	50V
RB104	1-235-724-			C502	1-123-356-00	ELECT			16V
RB105	1-235-724-			C503	1-107-202-00	MICA			16V
		•		C504	1-102-074-00	CERAMIC	0,001MF 1		
RB106	1-235-724-	11 RES, ENCAPSULATED	CERMET	C505	1-107-209-00	MICA			500V
RB107	1-235-724-								
RB108	1-235-724-			C506	1-162-561-11	CERAMIC	0,1MF		16V
RB109	1-235-724-			C507	1-130-483-00	MYLAR	0,01MF 5	8	50V
RB110	1-235-724-			C508	1-136-162-00	MYLAR			50 V
				C509	1-123-356-00	ELECT	10MF 2	₽09	16V
RB111	1-235-724-	11 RES, ENCAPSULATED	CERMET	C510	1-162-561-11	CERAMIC	0,1MF		16V
RB112	1-235-724-								
RB113	1-235-724-	11 RES, ENCAPSULATED	CERMET	C511	1-162-561-11	CERAMIC	0,1MF		16V
RY101	1-515-608-	ll RELAY		C512	1-107-206-00	MICA	15PF 5		500V
S101	1-553-522-0	00 SWITCH, PUSH		C513	1-130-471-00	MYLAR	0,001MP 5	8	50V
				C514	1-162-561-11	CERAMIC	0,1MF		16V
TH101	1-800-198-2	XX THERMISTOR S-1K		C515	1-123-332-00	ELECT	47MF 2	₽0\$	16V
X101	1-527-396-0								
X102	1-527-726-0	00 VIBRATOR, CRYSTAL		C516	1-162-561-11	CERAMIC	0,1MF		16V
X103	1-567-564-3	11 VIBRATOR, CRYSTAL		C517	1-123-380-00	ELECT	1MF 2	₹0£	50V
X104	1-527-990-0	00 VIBRATOR, CRYSTAL		C518	1-130-479-00	MYLAR	0,0047MF5	8	50V
				C519	1-123-332-00	ELECT	47MP 2	₹09	16V
				C520	1-130-479-00	MYLAR	0,0047MF5	*	50V
				C521	1-130-475-00	MYLAR	0.0022MF5	3 8	50V
				C522	1-123-356-00	ELECT	10MF 2	¥02	16V
				C523	1-130-475-00	MYLAR	0,0022MP5	58	50V
				C524	1-123-380-00	ELECT	1MF 2	#0s	50V
				C525	1-162-561-11	CERAMIC	0,1MP		16V
				C526	1-123-316-00	ELECT	10MF 2	20%	16V
				C527	1-162-561-11	CERAMIC	0,1MF		16V
				C528	1-102-529-00	CERAMIC		5%	50V
				C529	1-130-471-00	MYLAR			50V
				C530	1-123-333-00	ELECT			16V
				C531	1-162-561-11	CERAMIC	0,1MF		16V
				C532	1-162-561-11	CERAMIC	0,1MF		16V
				C533	1-102-114-00	CERAMIC			50V
				C534	1-131-343-00	TANTALUM			35V
				C535	1-162-561-11	CERAMIC	0,1MF		16V
					1 .120 .471 -00	MALTE	0.001MF 5	- a	50V
				C536	1-130-471-00	MYLAR			16V
				C537 C538	1-123-333-00 1-162-561-11	ELECT CERAMIC	0.1MF	206	16V
				C539	1-102-301-11	ELECT		200	16V
				C540	1-123-333-00	ELECT			16V
				C340	1-123-333-00			204	
				C541	1-162-561-11	CERAMIC	0,1MF		16V
				C542	1-123-321-00	ELECT			16V
				C543	1-102-115-00	CERAMIC			50V
				C544	1-123-380-00	ELECT			50V
				C545	1-130-479-00	MYLAR	0,0047MF	5%	50V
				C546	1-136-147-00	FILM	0,0033MF		5 0V
				C547	1-107-169-00	MICA		5%	500V
				C548	1-123-310-00	ELECT			10V
				C549	1-123-333-00	ELECT		20%	16V
				C550	1-162-561-11	CERAMIC	0,1MF		16V
				C551	1-162-561-11	CERAMIC	0,1MF		16V
				C552	1-106-180-00	MYLAR	0,0022MF	5%	50V
				3332	_ 100 100 00		.,		•

Ref.No	Part.No	Discript	ıon			Ref.No.	Parts No	Discript	ion		
C553	1-101-005-00	CERAMIC	0,022MF		50 V	Q501	8-729-606-33	TRANSIST	MP	2SC260	20
C554	1-130-483-00	MYLAR	0,01MF	5%	50 V	Q502	8-729-606-33	TRANSIST		2SC260	
C555	1-123-321-00	ELECT	220MF		16V	Q502 Q503	8-729-606-33				
C556	1-123-310-00	ELECT	470MF		10V			TRANSIST		2SC260	
C557	1-123-310-00	ELECT	470MF			Q504	8-729-606-33	TRANSIST		2SC260	
		PPPCI	4/UMF	20%	10V	Q505	8-729-606-33	TRANSIST	OR	2SC260	3P
C558	1-162-561-11	CERAMIC	0,1MF		16V	Q506	8-729-606-33	TRANSIST	OR	2SC260	3F
Ç559	1-162-561-11	CERAMIC	0,1MF		16V	Q507	8-729-606-33	TRANSIST	OR	2SC2603	3F
C560	1-123-310-00	ELECT	470MF	20%	10V	Q508	8-729-606-33	TRANSIST	OR	2SC2603	3F
C561	1-123-310-00	ELECT	470MF	20%	10V	Q509	8-729-606-33	TRANSIST	OR	2SC2603	
C570	1-123-356-00	ELECT	10MF	20%	16V	Q510	8-729-606-33	TRANSIST		2SC260	
CN501	1-560-983-00	CONNECTO	R,P (DIP	TYPI	E) 40P	Q511	8-729-606-33	TRANSIST	OR	2SC2603	3F
CN502	1-560-618-00	CONNECTO	R POST H	EADE	R,ILG 7P	Q512	8-729-606-33	TRANSIST		2SC260	
CN503	1-560-368-00	CONNECTO				Q513	8-729-606-33	TRANSIST		2SC260	
CN504	1-560-368-00	CONNECTO				Q514	8-729-606-33	TRANSIST		2SC260	
CN505	1-560-356-00	CONNECTO				Q515	8-729-606-33	TRANSIST		2SC2603	
CN506	1-563-104-11	RECEPTAL	R 36P			Q516	8-729-606-33	TRANSIST	MOD	2SC260) P
CN507	1-561-534-00	SOKET 21				Q517	8-729-606-33				
CV501	1-141-304-21	TRIMMER	•					TRANSIST		2SC2603	
D501	8-759-911-19	DIODE 1S	C110			Q518	8-729-606-33	TRANSIST		2SC2603	
D502	8-759-911-19	DIODE 15				Q519	8-729-606-33	TRANSIST		2SC2603	
	0-733-311-13	DIODE 13	3113			Q520	8-729-606-33	TRANSIST	OK	2SC2603	sr
FB501	1-543-274-21	BEAD, PER				Q521	8-729-606-33	TRANSIST	OR	2SC2603	3F
FB502	1-543-274-21	BEAD, FER						•			
IC501	8-759-906-28	IC SN74L				R501	1-247-875-00	CARBON	68K	5%	1/6W
IC502	8-757-732-00	IC CX-77	3B			R502	1-247-827-00	CARBON	680	5%	1/6W
IC503	8-759-902-21	IC SN74L	S221N			R503	1-247-861-00	CARBON	18K	5%	1/6W
						R504	1-247-876-00	CARBON	100		1/6W
IC504	8-759-250-81	IC TC508	l AP			R505	1-249-429-11	CARBON	10K	5%	1/6W
IC505	8-759-990-62	IC TL062	CP								
IC506	8-759-901-57	IC SN74L	S157N			R506	1-247-903-00	CARBON	1M	5%	1/6W
IC507	8-759-170-05	IC UPC78	M05H			R507	1-249-429-11	CARBON	10K	5%	1/6W
IC508	8-759-902-21	IC SN74L	S221N			R508	1-247-903-00	CARBON	1M	5%	1/6W
						R509	1-249-429-11	CARBON	10K	5%	1/6W
IC509	8-759-901-23	IC SN74L	S123N			R511	1-249-421-11	CARBON	2,2		1/6W
IC510	8-759-900-74	IC SN74L	S74AN						-,-		2, 0,,
IC511	8-759-103-19	IC UPC31				R512	1-249-429-11	CARBON	10K	5%	1/6W
IC512	8-759-902-21	IC SN74L				R513	1-247-851-00	CARBON	6,8		1/6W
IC513	8-759-901-57	IC SN74L				R514	1-247-831-00	CARBON	1K	. 5% 5%	1/6W
						R515	1-247-843-00	CARBON	3,3		1/6W
IC514	8-759-900-08	IC SN74L	S08N			R516	1-247-849-00	CARBON	5,6		1/6W
IC515	8-759-903-67	IC SN74L				1010	1 247 045 00	CARDON	3,0		1/ UW
IC516	8-759-900-00	IC SN74L				R517	1-247-821-00	CARBON	390	5%	1/64
IC517	8-759-900-32	IC SN74L				R517 R518	1-249-429-11	CARBON			1/6W
IC518	8-759-900-04	IC SN74L				R519			10K	5%	1/6W
10310	0-739-900-04	IC SHI4L	304M				1-249-432-11	CARBON	18K	5€	1/6W
IC519	8-759-220-04	IC TC40H	004D			R520	1-249-429-11	CARBON	10K	5%	1/6W
IC520	8-759-100-60					R521	1-247-841-00	CARBON	2,7	K 5%	1/6W
1C521		IC UPC13				2500					
	8-759-040-53	IC MC140				R522	1-249-434-11	CARBON	27K	5%	1/6W
L501	1-408-417-00	MICRO IN	DUCTOR 47	UH		R523	1-247-875-00	CARBON	68K	5€	1/6W
						R524	1-247-859-00	CARBON	15K	5%	1/6W
						R525	1-247-879-00	CARBON	100		1/6W
						R526	1-247-831-00	CARBON	1K	5%	1/6W
						R527	1-249-429-11	CARBON	10K	5%	1/6W
						R528	1-249-429-11	CARBON	10K	5%	1/6W
						R529	1-249-432-11	CARBON	18K	5%	1/6W
						R530	1-247-857-00	CARBON	12K	5%	1/6W
						R531	1-247-875-00	CARBON	68K	5%	1/6W

Ref, No	Part, No	Discript	ıon			Rer.No	Part.No	Discript	:10n		
R533	1-249-429-11	CARBON	10K	5%	1/6W	R585	1 240 400 11	_			
							1-249-429-11	CARBON	10K	5%	1/6W
R534	1-247-827-00	CARBON	680	5%	1/6W	R586	1-247-831-00	CARBON	1K	5%	1/6W
R535	1-247851-00	CARBON	6,8K	5%	1/6W	R587	1-247-823-00	CARBON	470	5€	1/6W
R536	1-247-831-00	CARBON	1K	5%	1/6W	R588	1-249-429-11	CARBON	10K	5%	1/6W
R537	1-249-437-11	CARBON	47K	5%	1/6W	R589	1-247-857-00	CARBON	12K	5%	1/6W
R538	1-247-845-00	CARBON	3,9K	5%	1/6W	R590	1-247-807-00	CARBON	100	5%	1/6W
R539	1-247-831-00	CARBON	1K	5%	1/6W	R591	1-247-831-00	CARBON	1K	5%	1/6W
R540	1-247-863-00	CARBON	22K	5%	1/6W	R592	1-247-804-00	CARBON	75	5%	
R541	1-247-863-00	CARBON	22K	5%	1/6W	R593	1-247-804-00				1/6W
R542	1-247-819-00	CARBON		5%		R594		CARBON	75	5%	1/6W
NJ42	1-247-013-00	CARBON	330	36	1/6W	K334	1-247-804-00	CARBON	75	5%	1/6W
R543	1-247-823-00	CARBON	470	5%	1/6W	R595	1-247-831-00	CARBON	1K	5%	1/6W
R544	1-247-825-00	CARBON	560	5%	1/6W	R596	1-247-831-00	CARBON	1K	5%	1/6W
R545	1-247-809-00	CARBON	120	5%	1/6W	R597	1-247-825-00	CARBON	560	5%	1/6W
R546	1-249-425-11	CARBON	4,7K	5%	1/6W	R598	1-247-825-00	CARBON	560	5%	1/6W
R547	1-247-827-00	CARBON	680	5%	1/6W	R699	1-249-421-11	CARBON	2,2K	5%	1/6W
R548	1-247-825-00	CARBON	560	5%	1 /61/	R600	3 247 053 00			_	
					1/6W		1-247-851-00	CARBON	6,8K	5€	1/6W
R549	1-247831-00	CARBON	1K	5%	1/6W	R601	1-249-421-11	CARBON	2,2K	5%	1/6W
R550	1-247-819-00	CARBON	330	5%	1/6W	R602	1-249-421-11	CARBON	2,2K	5%	1/6W
R551	1-247-823-00	CARBON	470	5€	1/6W	R603	1-247-851-00	CARBON	6,8K	5%	1/6W
R552	1-249-425-11	CARBON	4,7K	5%	1/6W	R604	1-249-421-11	CARBON	2,2K	5%	1/6W
R553	1-249-425-11	CARBON	4.7K	5%	1/6W	R605	1-247-831-00	CARBON	1K	5%	1 /614
R554	1-247-807-00	CARBON	100	5%	1/6W	R606	1-247-823-00	CARBON	470		1/6W
R555	1-249-429-11	CARBON	10K	5%	1/6W	R607	1-247-831-00			5%	1/6W
R556	1-247-857-00	CARBON	12K	5%	1/6W	R608		CARBON	1K	5%	1/6W
							1-247-823-00	CARBON	470	5%	1/6W
R557	1-247-825-00	CARBON	560	5%	1/6W	R609	1-247-804-00	CARBON	75	5€	1/6W
R558	1-247-804-00	CARBON	75	5%	1/6W	R610	1-247-804-00	CARBON	75	5%	1/6W
R559	1-249-429-11	CARBON	10K	5%	1/6W						
R560	1-249-429-11	CARBON	10K	5%	1/6W	RV501	1-224-937-00	RES, ADJ,	CERMET	1 K	
R561	1-247-877-00	CARBON	82K	5%	1/6W	RV502	1-224-938-00	RES, ADJ,			
R562	1-247-869-00	CARBON	39K	5%	1/6W	RV503	1-224-938-00	RES, ADJ,			
					_,	RV504	1-224-939-00	RES, ADJ,			
R563	1-249-425-11	CARBON	4,7K	5%	1/6W	RV505	1-224-942-00	RES, ADJ,			
R564	1-247-859-00	CARBON	15K	5%	1/6W		1 224 342 00	KED, ADO,	CERMET	JUK	
R565	1-247-867-00	CARBON	33K-	5%	1/6W	RV506	1-224-936-00	DEC ADT	annunm.		
R566	1-247-831-00	CARBON	1K	5%	1/6W	RV507		RES, ADJ,			
						RV508	1-224-936-00	RES, ADJ,			
R567	1-247-857-00	CARBON	12K	5%	1/6W		1-114-936-00	RES, ADJ,			
R568	1-247-823-00	CARBON	470	5%	2 (61)	X501 X502	1-527-729-00	OSCIALLA			
					1/6W	AJU4	1-527-724-21	VIBRATOR	, CRYSTA	<u>.</u>	
R569	1-247-879-00	CARBON	100K	5%	1/6W						
R570	1-247-804-00	CARBON	75	5%	1/6W						
R571	1-247-831-00	CARBON	1K	5%	1/6W						
R572	1-247-815-00	CARBON	220	5%	1/6W						
R573	1-247-815-00	CARBON	220	5%	1/6W						
R574	1-247-815-00	CARBON	220	5%	1/6W						
R575	1-247-815-00	CARBON	220	5%	1/6W						
R576	1-247-815-00	CARBON	220	5%	1/6W						
R577											
no i i	1-247-831-00	CARBON	1K	5€	1/6W						
R578	1-247825-00	CARBON	560	5%	1/6W						
R579	1-129-421-11	CARBON	2,2	5%	1/6W						
R580	1-247-851-00	CARBON	6,8K	5%	1/6W						
R581	1-249-421-11	CARBON	2,2K	5%	1/6W						
R582	1-247-843-00	CARBON	3,3K	5%	1/6W						
R583	1-249-429-11	CARBON	10K	5%	1/6W						
R584											
KJ04	1-247-851-00	CARBON	6,8K	5%	1/6W						

6-18 HB-G900P/F

Ref.No.	Parts No	Discription	Ref, No	Part, No	Discription
 ∆F101	1-532-203-11	Fuse	Q101	9-989-640-01	TPANSISTOR 2SC3376
35.000000000000000000000000000000000000			Q102	8-729-265-52	TRANSISTOR 2SC2655Y
<u></u> ∆C101	9-989-648-01	FILM 0.334F 250V	Q103	8-729-265-52	TRANSISTOR 2SC2655Y
	9-989-649-01	*			
C103	9-989-653-01	8	R101	9-989-663-01	THEMISTER
C104	9-989-653-01	88	R102	9-989-663-01	THEMISTER
C102 C103 C104 C105	9-989-654-01	**	R103	9-989-657-01	METAL 120K 2W
		* · · · · · · · · · · · · · · · · · · ·	R104	9-989-657-01	METAL 120K 2W
<u></u> ≙C106	9-989-654-01	CERAMIC 0.0022 µF,400V	R105	9-989-661-01	CARBON 220K 1/2W
C107	9-989-645-01	ELECT 120µF,400V	R106	9-989-661-01	CARBON 220K 1/2W
C108	9-989-650-01	FILM 0.01 µF 250V	R107	1-239-827-11	· ·
C109	9-989-655-01	'	R108	9-989-660-01	METAL 0.82 5W
C110	9-989-218-01		R109	1-247-791-11	
		,	R110	7-989-658-01	METAL 33 2W
C111	9-989-651-01	MYLAR 0.1 µF 50V			
C112	9-989-651-01	MYLAR 0.1 µF 50V	R111	1-247-827-11	CARBON 680 1/6W
C113	1-124-045-11	ELECT 4.7 F 50V	R112	1-247-807-11	CARBON 100 1/6W
C201	1-124-510-11	ELECT 220 F 35V	R113	1-247-799-11	CARBON 47 1/6W
C202	1-124-126-11	ELECT 47 pF 25V	R114	1-247-827-11	CARBON 680 1/6W
	1		R115	9-989-656-11	CARBON 56 3/4W
C203	1-124-129-11	ELECT 2200 µF 25V			
C204	1-124-126-11	ELECT 47 pF 25V	R201	9-989-659-01	METAL 680 1W
C205	1-123-985-11	ELECT 1000µF 16V	R202	1-239-841-11	CARBON 2.7K 1/6W
C206	1-123-959-11	ELECT 2200 µF 10V	R203	1-239-827-11	CARBON 2.2K 1/6W
C207	1-123-959-11	ELECT 2200 µF 10V	R204	1-247-791-11	CARBON 22 1/6W
C208	9-989-647-01	ELECT 2200μF 10V			
C209	9-989-646-01	ELECT 2200μF 10V	VR201	9-989-662-01	RES,ADJ,1K
C210	1-123-352-11	ELECT 1 _µ F 50V			
C211	9-989-654-01	CERAMIC 0.0022 µF 400V	L101	9-989-664-01	
C212	9-989-654-01	CERAMIC 0.0022 µF 400V	L102	9-989-664-01	
			L201	9-989-665-01	
D101	8-719-530-60		L202	9-989-666-01	COIL, CHOKE 5 H
Ð102	9-989-642-01		300000000000000000000000000000000000000		TRANSFORMER CONTROLLING
D103	8-719-907-40		∆ T101	9-989-666-01	TRANSFORMER SWITCHING
D104	8-719-907-40				
D105	8-719-907-40	DIODE ERB43-2			
D106	8-719-907-40	DIODE ERB43-2			
D201	9-989-643-01	DIODE F1-02			
D202	8-719-907-40	DIODE ERB43-2			
D203	8-719-907-40	DIODE ERB43-2			
D205	8-719-920-40	D10DE ESAC82-004			
≜PC10 1	1 9-989-641-01	PHOTO CUPLER TLP-581			
IC201	8-759-170-12	IC μPC78MIZ			•
IC202	8-749-931-22	IC SI-3122V			
IC203	9-989-639-01	IC IR9431			

NOTE:

1. The shaded and A-marked components are critical to safety.

Replace only with same components as specified.

2. Parts printed in Bold-Face type are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.

ACCESSORY & PACKING

Ref,No	Part, No	Discription			Part, No	Discription
	9-989-419-01	PC Board			≜1-556-760-11	CORD, POWER (3 CORE)
	9-989-294-01	KEY BOARD			3-764-300-11	CHART, REFERENCE MSX (ENGUSH)
	9-989-295-01	KEY BOARD (F1, I	F2,		3-764-300-31	CHART, REFERENCE, MSXZ BASIC (FRENCH)
		F3, F4, F5, HOME, I		L,STOP)	3-764-301-11	INSTRUCTION MSX-BASIC (ENGUSH)
	9-989-296-01	KEY BOARD (CAF	P)		3-764-301-31	INSTRUCTION MSX-BASIC (ENGUSH)
					3- 704-301-31	INSTRUCTION, MISKE BASIC (FRENCH)
C1	1-161-974-00	CERAMIC 0.1	20%	16V	3-764-312-11	MANUAL RS-232C (ENGLISH)
C2	1-161-974-00	CERAMIC 0.1	20%	16V	3-764-312-31	, ,
C3	1-161-974-00	CERAMIC 0.1	20%	16V	3-764-318-11	MANUAL,RS-232C (FRENCH)
C4	1-161-974-00	CERAMIC 0.1	20%	16V		INSTRUCTION MSX-BASIC (ENGLISH)
C5	1-161-974-00	CERAMIC 0.1	20%	16V	3-764-318-31	INSTRUCTION, MSXZ BASIC (FRENCH)
					3-764-331-11	MANUAL INSTRUCTION (ENGLISH)
C6	1-124-896-00	ELECT 33	20%	16V		
					3-764-331-31	MANUAL, INSTRUCTION (FRENCH)
LED1	8-719-934-35	BR3432S			3-765-016-11	MANUAL INSTRUCTION (ENGLISH)
					3-765-016-41	MANUAL INSTRUCTION (GERMAN)
D1	8-719-815-55	DIODE 1S1555			3-765-016-51	MANUAL INSTRUCTION (FRENCH)
D2	8-719-815-55	DIODE 1S1555			4-605-109-03	SEAL, GRAPHIC
D3	8-719-815-55	DIODE 1S1555			4-605-110-03	SHEET,GRAPHIC
IC1	8-759-900-05	SN74LS05N			4-608-310-02	BOX,ACCESSORY
IC2	8-759-901-45	SN74LS145N			4-608-311-01	CUSHION (KEY BOARD LEFT)
IC3	8-759-901-75	SN74LS175N			4-608-312-01	CUSHION (KEY BOARD RIGHT)
IC4	8-759-903-67	SN74LS367AN			4-608-314-01	CUSHION (MAIN LEFT)
					4-608-315-01	CUSHION (MAIN RIGHT)
R1	1-246-485-00	CARBON 3.3K	5%	1/4W	4-008-315-01	COSHION (MAIN RIGHT)
R2	1-246-485-00	CARBON 3.3K	5%	1/4W	4-609-321-01	INDIVIDUAL CRATON (COCOR)
R3	1-247-725-11	CARBON 10K	5%	1/4W	4-609-321-11	INDIVIDUAL CRATON (G900P)
R4	1-247-725-11	CARBON 10K	5%	1/4W		INDIVIDUAL CARTON (-G900F)
R5	1-247-725-11	CARBON 10K	5%	1/4W	4-609-356-01	SHEET, PROTELTION
R6	1-247-725-11	CARBON 10K	5%	1/4W		

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HBD-G900 ACCESSORY & PACKING

Part, No	Discription
3-765-005-11	MANUAL, INSTRUCTION
4-606-087-02	BUTTON, EJECT
4-606-088-01	SPRING
4-606-092-02	LENS
4-609-307-01	INDIVIDUAL CARTON
4-609-308-01	CUSHION
7-682-947-01	SCREW + PSW 3×6
A-8030-349-A	PANEL ASSY, FRONT

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