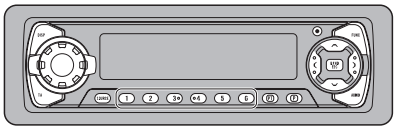
Service Manual



ORDER NO.
CRT2466

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P5100R X1N/EW
DEH-P5100R-W X1NEW
DEH-P5100R-B X1NEW

● This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech. Module	Remarks
CX-958	CRT2423	S8.1	CD Mech. Module:Circuit Description, Mech. Description, Disassembly

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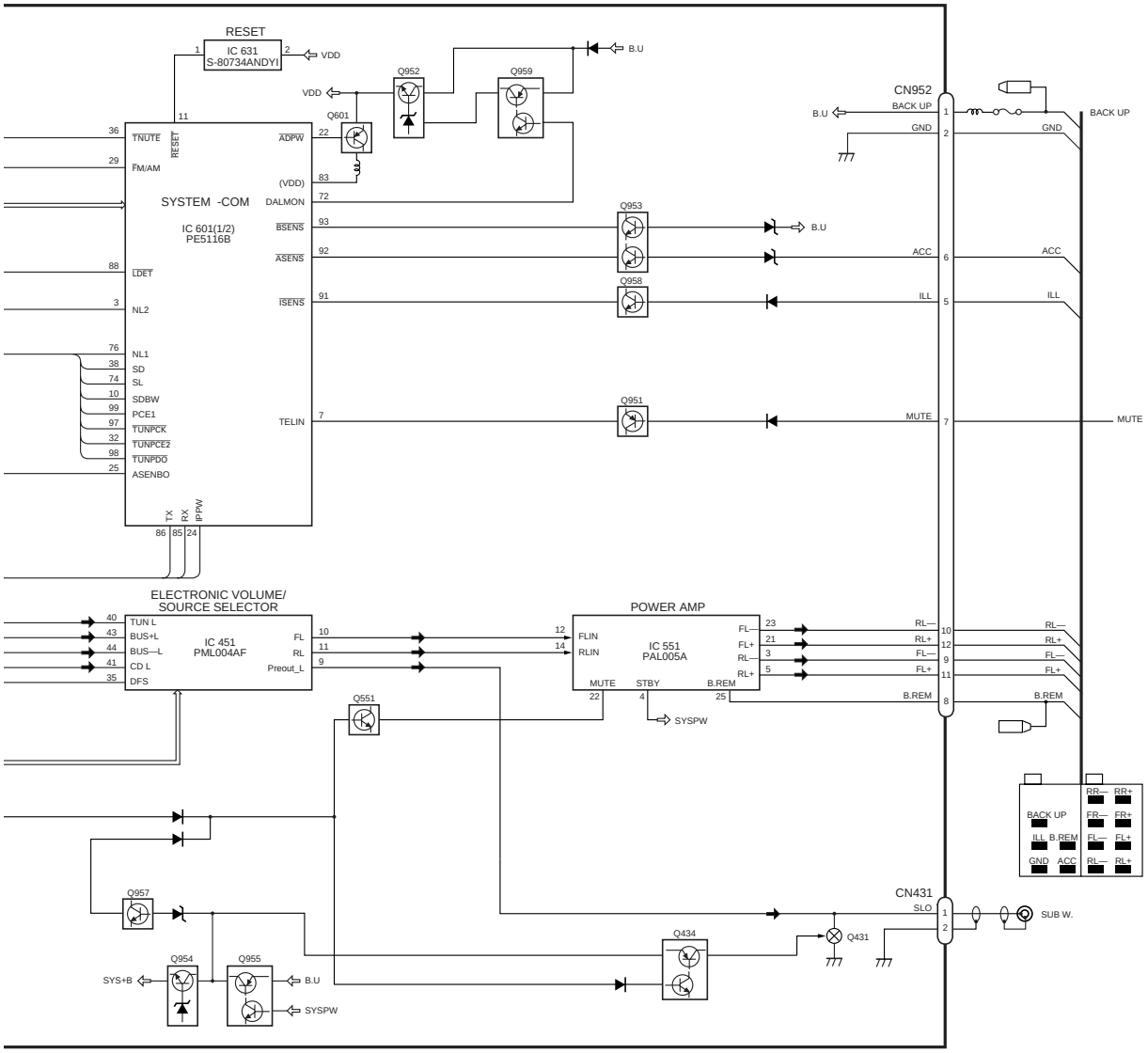
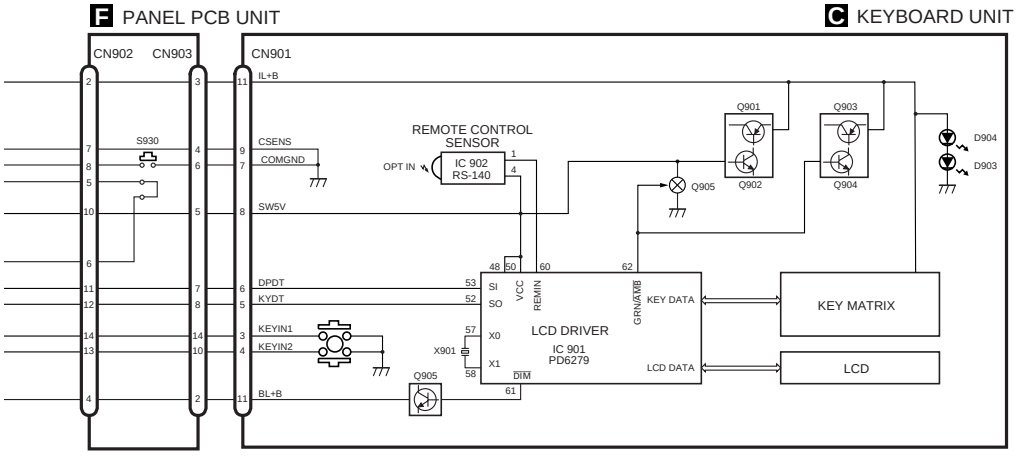
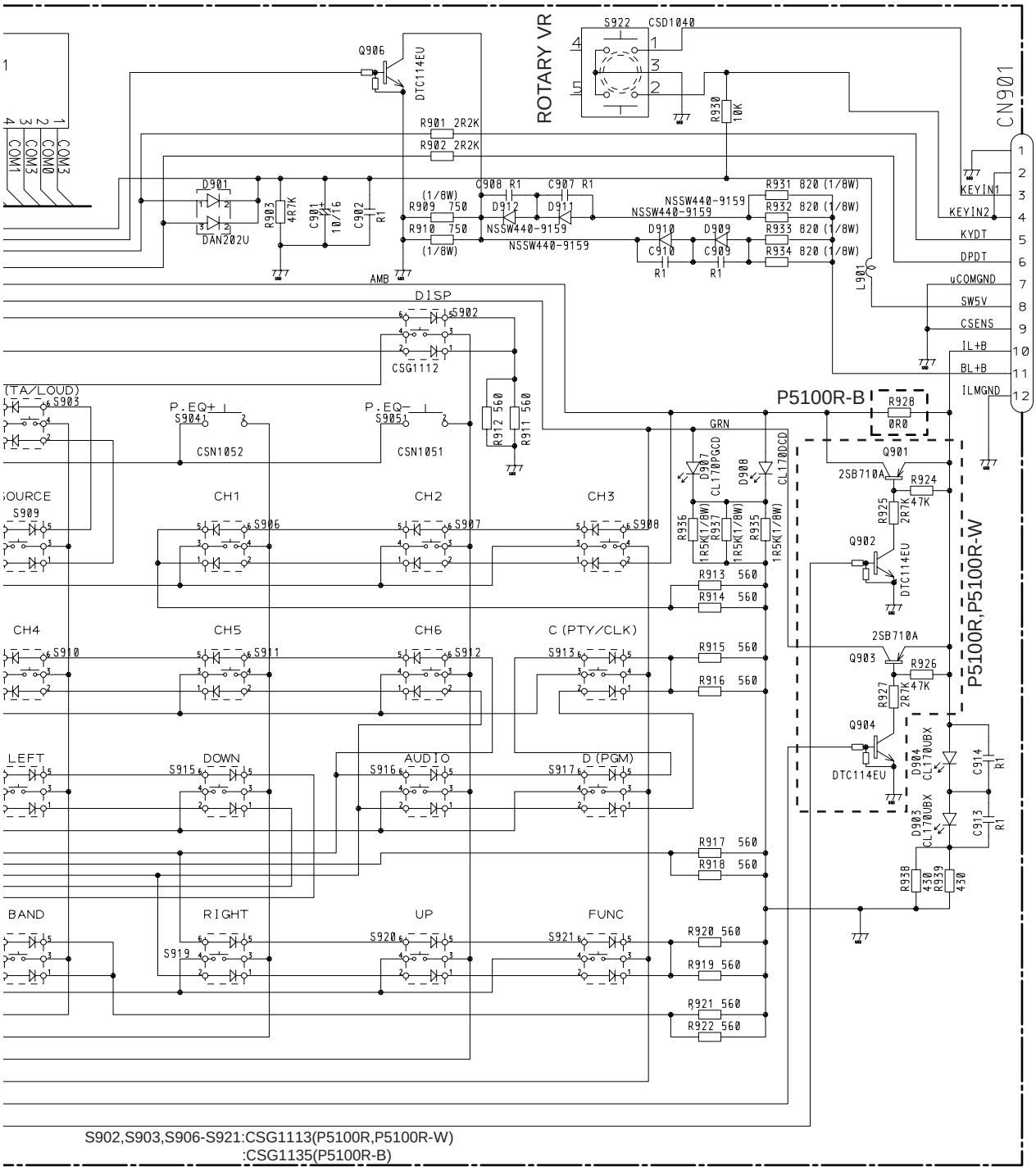
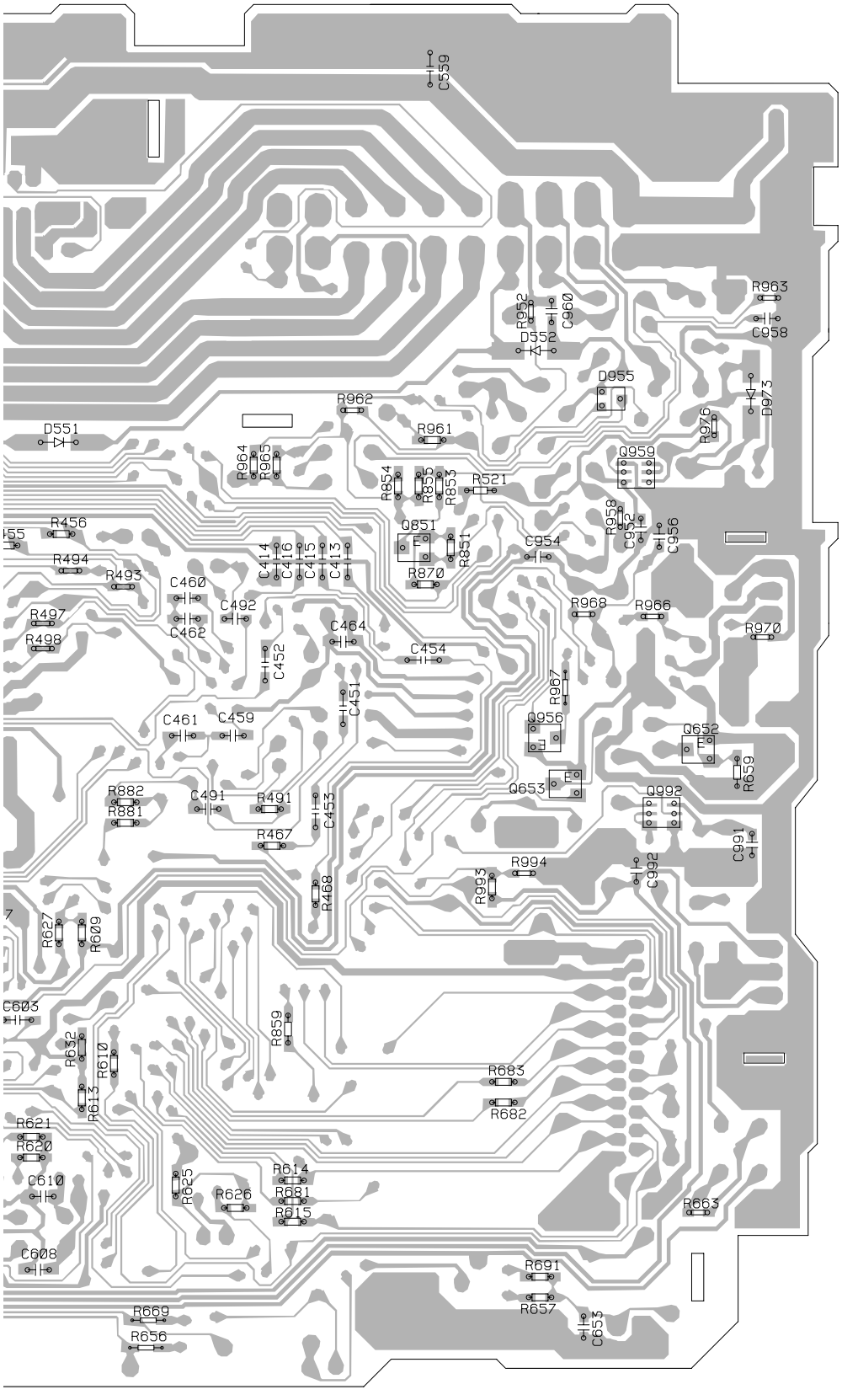

RESET
IC 631
S-80734ANDYI
VDD
B.U
Q952
Q959
Q601
CN952
BACK UP
GND
SYSTEM -COM
IC 601(1/2)
PE5116B
TNUTE
RESET
FM/AM
ADPW
(VDD)
DALMON
BSENS
ASENS
ISENS
LDET
NL2
NL1
SD
SL
SDBW
PCE1
TUNPCK
TUNPCE2
TUNPDO
ASENBO
TELIN
TX
RX
PPW
Q953
Q958
Q951
ACC
ILL
MUTE
ELECTRONIC VOLUME/
SOURCE SELECTOR
IC 451
PML004AF
TUN L
BUS+L
BUS—L
CD L
DFS
FL
RL
Preout_L
POWER AMP
IC 551
PAL005A
FLIN
RLIN
MUTE
STBY
B.REM
SYSPW
Q551
Q957
Q954
Q955
SYS+B
Q434
Q431
CN431
SLO
SUB W.


F PANEL PCB UNIT
C KEYBOARD UNIT
CN902
CN903
CN901
IL+B
S930
CSENS
COMGND
SW5V
DPDT
KYDT
KEYIN1
KEYIN2
BL+B
REMOTE CONTROL
SENSOR
OPT IN
IC 902
RS-140
Q901
Q902
Q903
Q904
Q905
D904
D903
LCD DRIVER
IC 901
PD6279
SI
SO
VCC
REMIN
GRN/AMB
KEY DATA
LCD DATA
X0
X1
X901
DIM
KEY MATRIX
LCD



S902,S903,S906-S921:CSG1113(P5100R,P5100R-W)
:CSG1135(P5100R-B)

SIDE B


C559
R963
R952
C960
C958
D552
Q431
Q412
D955
D973
R962
R976
Q432
R961
D551
R964
R965
Q959
Q959
R854
R855
R853
R521
R958
C952
C956
Q851
R851
C954
Q851
Q433
R456
R494
R493
C414
C416
C415
C413
R870
C460
C492
C462
R497
R498
R968
R966
R970
C464
C452
C454
C451
R967
C461
C459
Q956
Q652
Q956
Q652
R659
Q653
R882
R881
C491
R491
C453
Q992
Q653
Q992
R467
Q501
C991
R994
R993
C992
R468
R627
R609
C603
R859
R632
R610
R613
Q701
Q541
R683
R682
R621
R620
C610
R625
R614
R681
R615
R626
Q601
R663
C608
R691
R657
C653
R669
R656
IC, Q
IC411

=====Circuit Symbol and No.		===Part Name	Part No.

C Unit Number : CWM6906(P5100R)
: CWM6910(P5100R-W)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC	901	IC	PD6279A
IC	902	IC	RS-140
Q	901	Transistor	2SB710A
Q	902	Transistor	DTC114EU
Q	903	Transistor	2SB710A
Q	904	Transistor	DTC114EU
Q	905	Transistor	DTC114EU
Q	906	Transistor	DTC114EU
D	901	Diode	DAN202U
D	902	Diode	DAP202U
D	903	LED	CL170UBX
D	904	LED	CL170UBX
D	907	LED	CL170PGCD(AB)
D	908	LED	CL170DCD
D	909	LED	NSSW440-9159
D	910	LED	NSSW440-9159
D	911	LED	NSSW440-9159
D	912	LED	NSSW440-9159
L	901	Inductor	LCTA101J3225
X	901	Radiator 5.00MHz	CSS1423
S	902	Push Switch	CSG1113
S	903	Push Switch	CSG1113
S	904	Spring Switch	CSN1052
S	905	Spring Switch	CSN1051
S	906	Push Switch	CSG1113
S	907	Push Switch	CSG1113
S	908	Push Switch	CSG1113
S	909	Push Switch	CSG1113
S	910	Push Switch	CSG1113
S	911	Push Switch	CSG1113
S	912	Push Switch	CSG1113
S	913	Push Switch	CSG1113
S	914	Push Switch	CSG1113
S	915	Push Switch	CSG1113
S	916	Push Switch	CSG1113
S	917	Push Switch	CSG1113
S	918	Push Switch	CSG1113
S	919	Push Switch	CSG1113
S	920	Push Switch	CSG1113
S	921	Push Switch	CSG1113
S	922	Switch	CSD1040
LCD	901	LCD(P5100R)	CAW1566
LCD	901	LCD(P5100R-W)	CAW1573

RESISTORS

R	901		RS1/10S222J
R	902		RS1/10S222J
R	903		RS1/10S472J
R	904		RS1/10S121J
R	905		RS1/10S2R2J
R	906		RS1/10S470J
R	907		RS1/10S470J
R	908		RS1/10S472J
R	909		RS1/8S751J
R	910		RS1/8S751J
R	911		RS1/8S561J
R	912		RS1/8S561J
R	913		RS1/8S561J
R	914		RS1/8S561J
R	915		RS1/8S561J
R	916		RS1/8S561J
R	917		RS1/8S561J
R	918		RS1/8S561J
R	919		RS1/8S561J
R	920		RS1/8S561J
R	921		RS1/8S561J
R	922		RS1/8S561J
R	924		RS1/10S473J
R	925		RS1/10S272J
R	926		RS1/10S473J
R	927		RS1/10S272J
R	930		RS1/10S103J
R	931		RS1/8S821J
R	932		RS1/8S821J
R	933		RS1/8S821J
R	934		RS1/8S821J
R	935		RS1/8S152J
R	936		RS1/8S152J
R	937		RS1/8S152J
R	938		RS1/10S431J
R	939		RS1/10S431J

CAPACITORS

C	901		CSZSR100M16
C	902		CKSQYB104K50
C	903		CSZSR100M16
C	904		CKSQYB103K50
C	905		CKSQYB103K50
C	906		CKSQYB103K50
C	907		CKSQYB104K50
C	908		CKSQYB104K50
C	909		CKSQYB104K50
C	910		CKSQYB104K50
C	913		CKSQYB104K50
C	914		CKSQYB104K50

C Unit Number : CWM6907(P5100R-B)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC	901	IC	PD6279A
IC	902	IC	RS-140
Q	906	Transistor	DTC114EU
D	901	Diode	DAN202U
D	902	Diode	DAP202U
D	903	LED	CL170UBX
D	904	LED	CL170UBX
D	908	LED	CL170SRCD
D	909	LED	NSSW440-9159
D	910	LED	NSSW440-9159
D	911	LED	NSSW440-9159
D	912	LED	NSSW440-9159
L	901	Inductor	LCTA101J3225
X	901	Radiator 5.00MHz	CSS1423
S	902	Push Switch	CSG1135
S	903	Push Switch	CSG1135
S	904	Spring Switch	CSN1052
S	905	Spring Switch	CSN1051
S	906	Push Switch	CSG1135
S	907	Push Switch	CSG1135
S	908	Push Switch	CSG1135
S	909	Push Switch	CSG1135
S	910	Push Switch	CSG1135
S	911	Push Switch	CSG1135
S	912	Push Switch	CSG1135

(4) Display of Operational Status (CPOINT) during Setup

Status No.	Contents	Protective action
00	CD+5V ON process in progress.	None
01	Servo LSI initialization (1/3) in progress.	None
02	Servo LSI CRAM initialization in progress.	None
03	Servo LSI initialization (2/3) in progress.	None
04	Offset adjustment (1/3) in progress.	None
05	Offset adjustment (2/3) in progress.	None
06	Offset adjustment (3/3) in progress.	None
07	FZD adjustment in progress.	None
08	Servo LSI initialization (3/3) in progress.	None
10	Carriage move to home position started.	None
11	Carriage move to home position started.	None
12	Carriage is moving toward inner diameter.	Specified 10 seconds has been passed or failure on home switch.
13	Carriage is moving toward outer diameter.	Specified 10 seconds has been passed or failure on home switch.
14	Carriage outer kick in progress.	None
15	Carriage outer diameter feed (1 second) in progress.	None
20	Servo close started.	None
21	Pre-processing for focus search started.	None
22	Spindle rotation and focus search started.	None
23	Waiting for focus close (XSI=Low).	Specified focus search time has been passed.
24	Standing by after focus close is over.	Specified focus search time has been passed.
25	Focus search preprocessing is in progress while setup protection is turned on.	None
26	Focus search preprocessing is in progress while focus recovery is turned on.	None
27	Wait time after focus close is set up.	Off focus.
28	Standing by after focus close is over.	Off focus.
29	Setup (1/2) before T balance adjustment is started.	Off focus.
30	Setup (2/2) before T balance adjustment is started.	Off focus.
31	T balance adjustment started.	Off focus.
32	T balance adjustment (1/2).	Off focus.
33	T balance adjustment (2/2).	Off focus.
34	Waiting for spindle rotation to end. Spindle rough servo.	Off focus.
35	Standing by after spindle rough servo is over.	Off focus.
36	RF AGC started.	Off focus.
37	RF AGC started.	Off focus.
38	RF AGC ending process in progress.	Off focus.
39	Tracking close in progress.	Off focus.
40	Standing by after tracking is closed. Carriage closing in progress.	Off focus.
41	Focus/tracking AGC started.	Off focus.
42	Focus AGC started.	Off focus.
43	Focus AGC in progress.	Off focus.
44	Tracking AGC in progress.	Off focus.
45	Standing by after focus/tracking AGC are over.	Off focus.
46	Spindle processes applicable servo.	Off focus.
47	Check for servo close is started.	Off focus.
48	Check of LOCK pin started.	Off focus or spindle not locked.
49	RF AGC started.	Off focus.
50	RF AGC in progress.	Off focus.
51	Standing by after RF AGC is over.	Off focus.

Pin No.	Pin Name	I/O	Function and Operation
59	CDLOAD	O	CD LOAD motor loading control output
60	LOCK	I	CD spindle lock detector input
61	FOK	I	CD focus OK signal input
62	PCL	O	Clock adjustment output
63	MIRR	I	CD mirror detection input
64	$\overline{\text{CLAMP}}$	I	CD disc clamp input
65	$\overline{\text{XSCK}}$	O	CD LSI clock output
66	XSI	I	CD LSI data input
67	XSO	O	CD LSI data output
68	XA0	O	CD LSI command / data control output
69	$\overline{\text{XRST}}$	O	CD LSI reset control output
70	$\overline{\text{XSTB}}$	O	CD LSI strobe output
71,72	NC		Not used
73	TEST(GND)	I	GND
74	SL	I	Signal level input
75	$\overline{\text{EJECT}}$	I	Eject sense input
76	NL1	I	RDS noise level input 1 (A/D)
77	FLPILM	I	Flap illumination input
78	EJTSNS	I	CD disc EJECT position detect input
79	DSCSNS	I	CD disc insert sense input
80	VDSENS	I	VD voltage sense input
81	TEMP	I	Temperature sense input (CD)
82	VDD		A/D converter power supply terminal
83	VDD		A/D converter reference voltage terminal
84	GND		GND
85	RX	I	IP BUS data input
86	TX	O	IP BUS data output
87	GND		GND
88	$\overline{\text{LDET}}$	I	PLL lock sense input
89	$\overline{\text{RCK}}$	I	RDS clock input
90	RDS57K	I	RDS 57kHz pulse count input
91	$\overline{\text{ISENS}}$	I	Illumination sense input
92	$\overline{\text{ASENS}}$	I	ACC power sense input
93	$\overline{\text{BSENS}}$	I	Back up power sense input
94	TUNPDI	I	PLL IC data input
95	KYDT	I	Grille data input
96	DPDT	O	Grille data output
97	TUNPCK	O	PLL IC clock output
98	TUNPDO	O	PLL IC data output
99	TUNPCE	O	PLL IC chip enable output
100	PEE	O	Beep tone output

*PE5116B