

Service Manual

PIONEER
The Art of Entertainment

DEH-625R/EW



ORDER NO.
CRT1808

HIGH POWER CD PLAYER WITH RDS TUNER

DEH-625R EW

DEH-624R EW

DEH-525R EW

DEH-524R EW

DEH-424R GR

HIGH POWER CD PLAYER WITH FM/MW/LW TUNER

DEH-424 EW

DEH-425 IT

COMPACT
disc
DIGITAL AUDIO

- See the service manual CX-597(CRT1811) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of CX-597 series.

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● **CD Player Service Precautions**

1. For pickup unit(CGY1070) handling, please refer to "Disassembly"(CX-597 Service Manual CRT1811). During replacement, handling precautions shall be taken to prevent an electrostatic discharge(Protection by a short pin).
2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

1. SAFETY INFORMATION

1. Safety Precautions for those who Service this Unit.

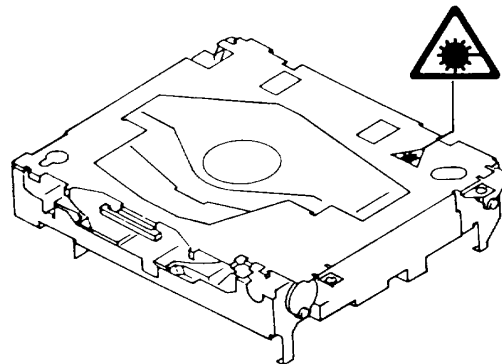
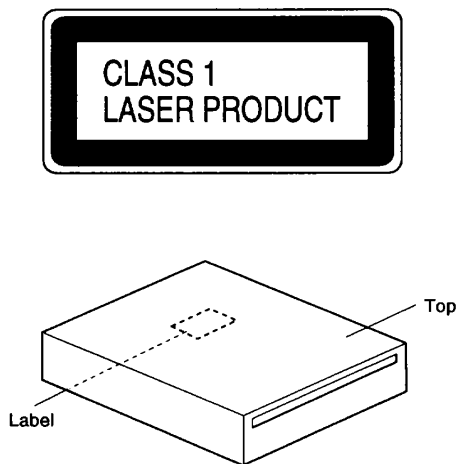
- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

2. A "CLASS 1 LASER PRODUCT" label is affixed to the bottom of the player.

3. The triangular label is attached to the mechanism unit frame.



4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.
Wavelength = 800 nanometers

2. SPECIFICATIONS

General

Power source	14.4 V DC (10.8 — 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions	
(mounting size)	178 (W) × 50 (H) × 150 (D) mm
(front face)	188 (W) × 58 (H) × 22 (D) mm
Weight	1.5 kg

Amplifier

Maximum power output	35 W × 4
Continuous power output	22 W × 4 (DIN45324, +B=14.4 V)
Load impedance	4 Ω (4 — 8 Ω allowable)
Preout output level/output impedance	500 mV/ 1 kΩ
Tone controls	
(Bass)	±12 dB (100 Hz)
(Treble)	±12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz) (volume: -30 dB)

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz Number of quantization bits: 16; linear
Frequency characteristics	5 — 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz)(IEC-A network)
Dynamic range	90 dB (1 kHz)
Number of channels	2 (stereo)

FM tuner

Frequency range	87.5 — 108 MHz
Usable sensitivity	11 dBf (1.0 μV/75Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μV/75Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range	531 — 1,602 kHz
Usable sensitivity	18 μV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

LW tuner

Frequency range	153 — 281 kHz
Usable sensitivity	30 μV (30 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

Note:

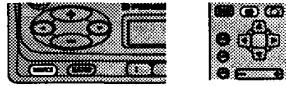
Specifications and the design are subject to possible modification without notice due to improvements.

3. OPERATION AND CONNECTION

Tuner Operation

Tuner Source and Band

- Push the **SOURCE** button or the **Tuner** button to select Tuner.
The program service name or frequency appears on the display.
("CD" indicator lights when stereo station selected.)



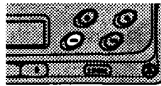
- Use the **BAND** button to select the desired band.
(F1, F2, MW/LW)



AF Function Switching

This tuner/CD player's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations.

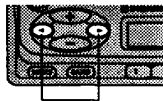
- Press the **AF** button to switch AF OFF.
"AF" disappears.
Press the AF button again to switch AF ON.
"AF" appears on the display.



Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

1. Press the (◀) and (▶) buttons simultaneously to switch alternately between the Manual and Seek tuning modes.
The "MANU" indicator lights when Manual tuning is selected and turns OFF when Seek tuning is selected.
 2. Press the (▶) button to tune the receiver to a higher frequency.
MANU ON (Manual tuning):
The frequency changes step by step.
MANU OFF (Seek Tuning):
The tuner automatically seeks out and receives broadcasting stations.
- Press the (◀) button to tune the receiver to a lower frequency.



Using the Built-in CD Player

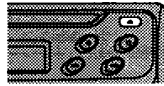
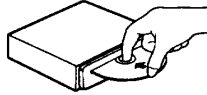
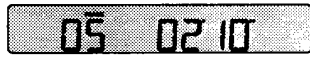
The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Inserting and Removing Discs

- Insert the disc with the recorded (iridescent) surface down.

CD playback begins immediately, whether or not the player is ON or the built-in CD source selected. The track number and playing time are displayed.

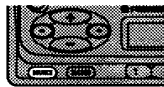
- Press the **Eject** button to eject any disc loaded in the disc slot.



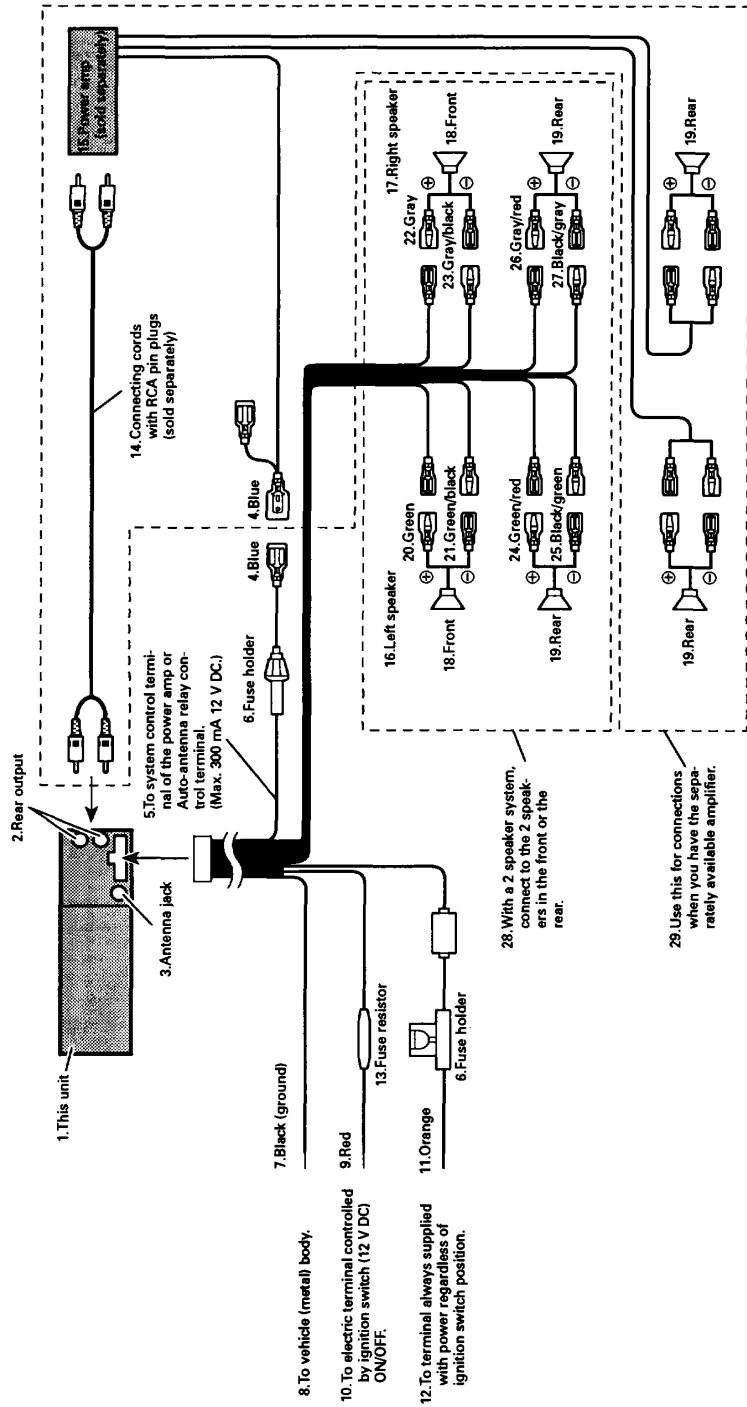
Playing the Built-in CD player

- To play a CD that is already loaded, press the **SOURCE** or **CD** button with a CD loaded to select the built-in CD player.

The built-in CD player is selected only when a CD is loaded.



● Connection Diagram



4. DISASSEMBLY

● Removing the Case(Not shown)

- 1.Remove the two screws.
- 2.Insert and turn a flat screwdriver at locations indicated by arrows to remove the case.

● Removing the Detach Grille Assy(Fig.1)

- 1.Press the detach button, and then pull detach grille assy.

● Removing the Panel Assy(Fig.1)

- 1.Disconnect the two stoppers indicated by arrows, and then remove the panel assy.

● Removing the CD Mechanism Module(Fig.1)

- 1.Remove the four screws.
- 2.Disconnect the connector.
- 3.Remove the CD mechanism module.

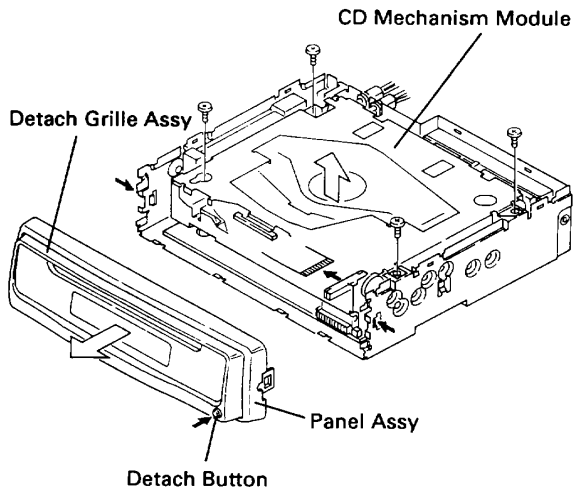


Fig.1

● Removing the Chassis Unit(Fig.2)

- 1.Remove the screw A, two screws B, screw C and two screws D.
- 2.Stretch the claw.
- 3.Remove the two cords, and then remove the chassis unit.

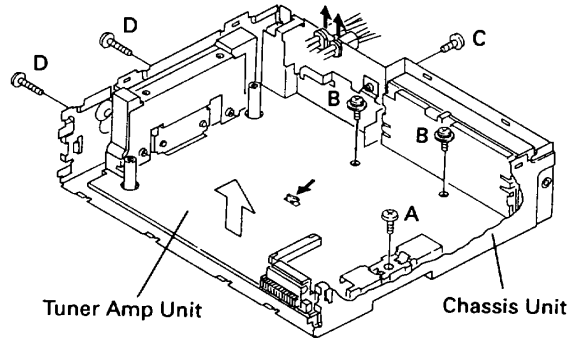


Fig.2

5. ADJUSTMENT

● Connection Diagram

NOTE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.
Z: Output impedance of SSG.

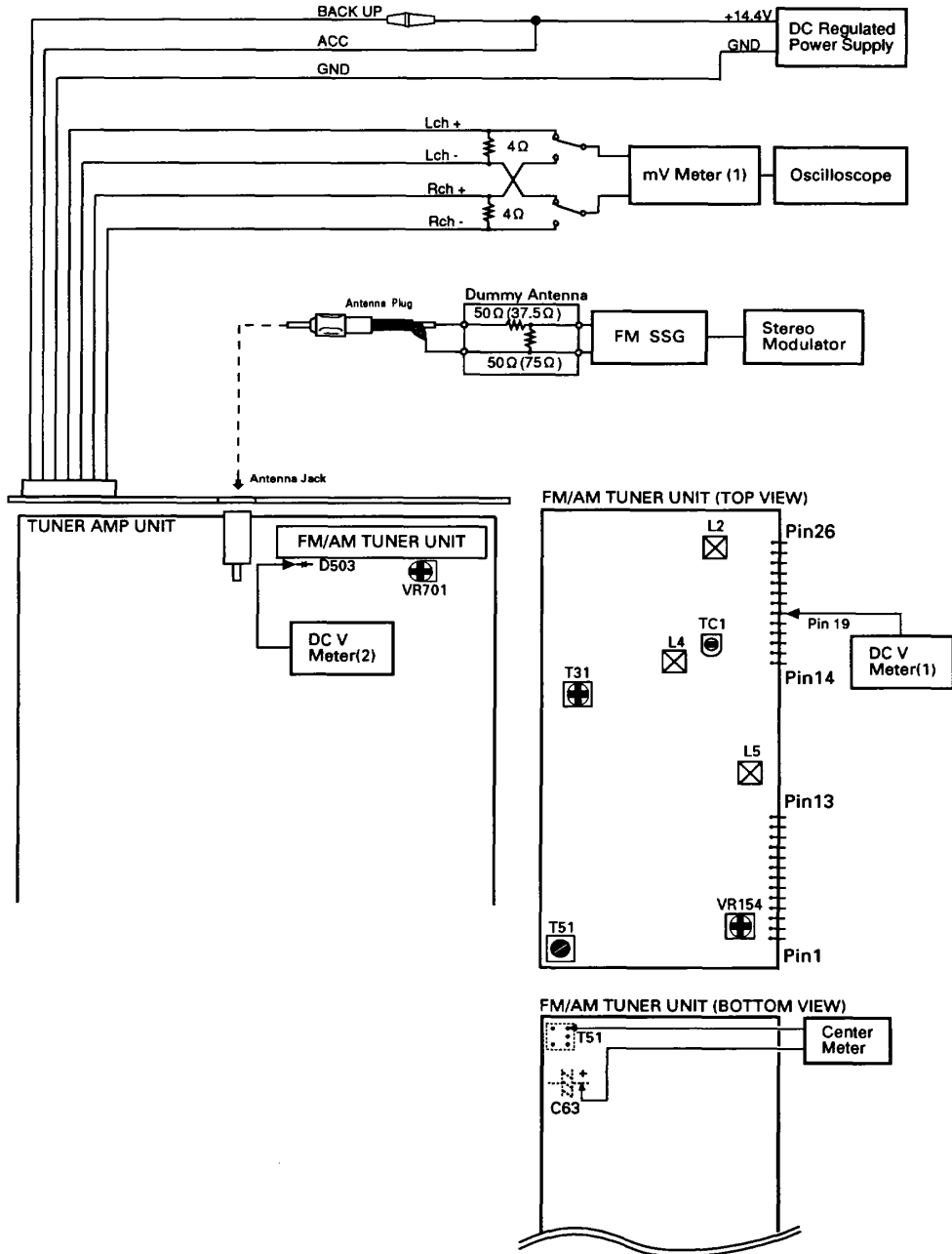


Fig. 3

DEH-625R,624R,525R,524R,424R,424,425

FM ADJUSTMENT

Modulation M: MONO MOD., 400Hz 30%(22.5kHz Dev.)

S: STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE: Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
TUN Volt	1	*****	*****	108.0	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
Image	1	129.3 M	60-80	107.9	TC1	mV Meter(1) : Minimum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

RDS SL ADJUSTMENT

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
	1	106.1 M	52	106.1	VR701	DC V Meter(2) : 2.25V±0.05V

6. TEST MODE

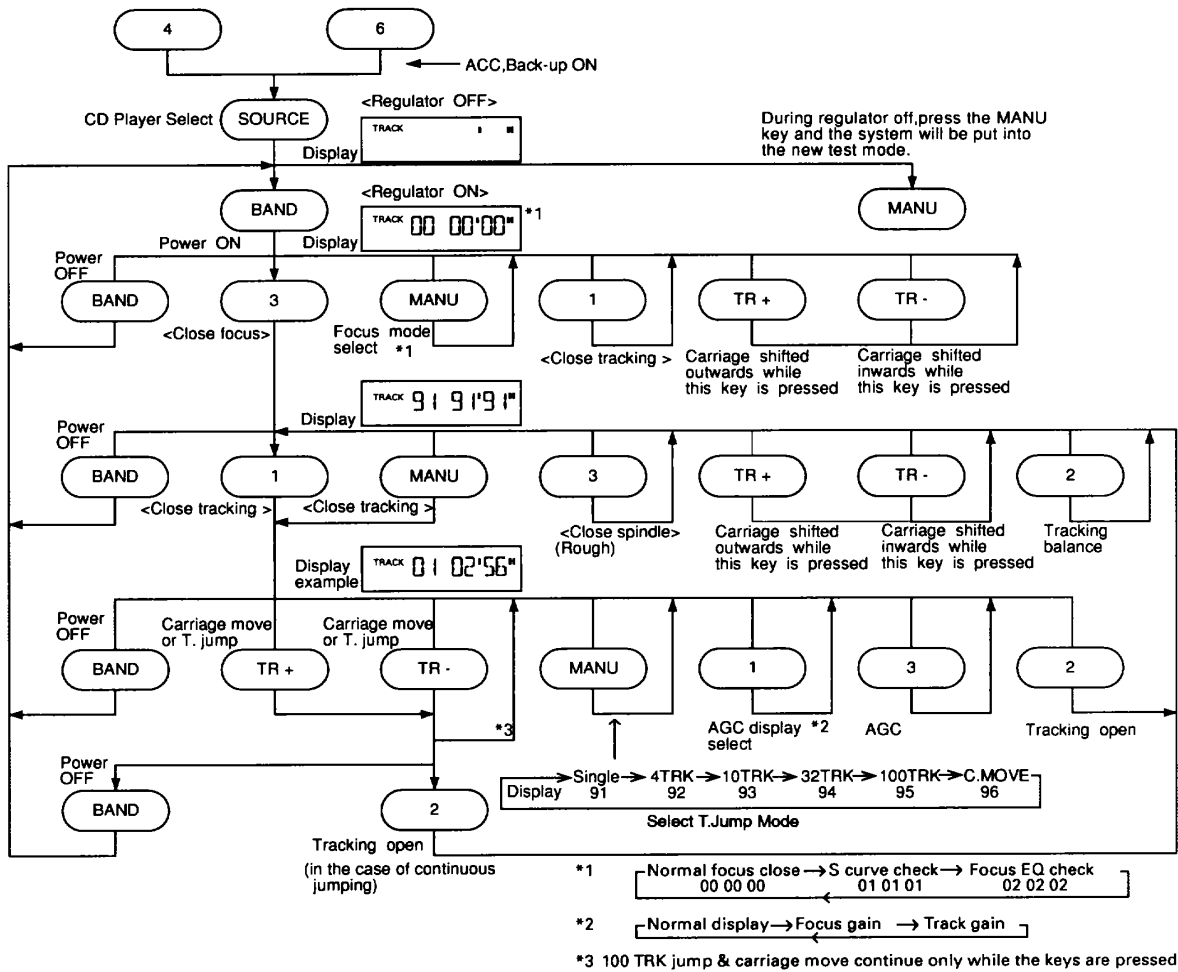
6.1 TEST MODE

1)Precautions

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND. If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.
Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.
Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.
If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.
- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure
Switch ACC, back-up ON while pressing the 4 and 6 keys together.

- Test mode cancellation
Switch ACC, back-up OFF.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
*During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
*The unit will not load a disc.
When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.
- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched off.

● Flow Chart



6.2 ERROR NUMBERS AND NEW TEST MODE

● **Error Number Indication**

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

(1) Basic Means of Display

·With ERROR indicated in "MODE" on IP-BUS Display data, an error code is transmitted by the use of MIN and SEC.

The MIN and SEC data will be identical.

·Examples of Display ERROR-XX

(2) Error Codes

Error Code	Classification	Description	Cause/Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
30	ELECTRIC	Search time out	Failed to reach target address →Carriage/tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal

"defects" means scratches, dirt etc an the surface of the disc.

● **New Test Mode(aging operation and setup analysis)**

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number).

During the setup, the CD software operation status (internal RAM and C-point)is displayed.

(1) How to enter NEW TEST Mode

See the test mode flow chart Page 11.

(2) Relations of keys between TEST and NEW TEST Modes

Keys	Test Mode		New Test Mode	
	Regulator OFF	Regulator ON	PLAY in progress	Error Occurred, Protection Activated
BAND	Regulator ON	Regulator OFF	—	Time of occurrence / cause of error select
TR+	—	FWD-KICK	TRACK+ / FF	—
TR-	—	REV-KICK	TRACK- / REV	—
1	—	TRACKING CLOSE	SCAN	—
2	—	TRACKING OPEN	REPEAT	—
3	—	FOCUS CLOSE	RANDOM	—
MANU	To New Test Mode Select	FOCUS MODE	AUTO/MANU	—

Operations, such as EJECT, CD ON/OFF, etc. are performed normally.

(3) Error Cause (Error Number) Code

Error Code	Classification	Mode	Description	Cause	Detail
40	ELECTRIC	PLAY	FOK=L 100ms	Put out of focus	Scratch, Stain, Vibration, Servo defect, etc...
41	ELECTRIC	PLAY	LOCK=L 100ms	Spindle unlock	
42	ELECTRIC	PLAY	Subcode unacceptable 500ms	Failed to read subcode	
43	ELECTRIC	PLAY	Sound skipped	Last address memory operated	

(4) Indicating an Operation Status During Setup

Status No.	Description	Protection operation
01	Carriage home mode started	None
02	Carriage moving inwards	10-second time out, Home switch failed
03	Carriage moving outwards	10-second time out, Home switch failed
05	Carriage moving outwards	None
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closure (XSI=L)	Failure to close focus
10,14	Waiting for focus closure (FOK=H)	Failure to close focus
15, 16, 17	Focus closed, Tracking open	Focus disrupted
18	During focus AGC Subcode waiting	Focus disrupted
19	During tracking AGC	Disrupted focus
20	Waiting for MIRR, LOCK or subcode read Carriage closed, SPINDLE=ADAPTIVE	Focus disrupted, MIRR NG, Failure to lock, Failed to read subcode

(5) Example of Display.

·SET UP in progress

TNo.	Min	Sec
11	11	11

·Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.

·Protection/Error upon occurrence
(a) Error number indicated

ERROR-xx

Select the display with the BAND key.

(b) Track number and absolute time indicated

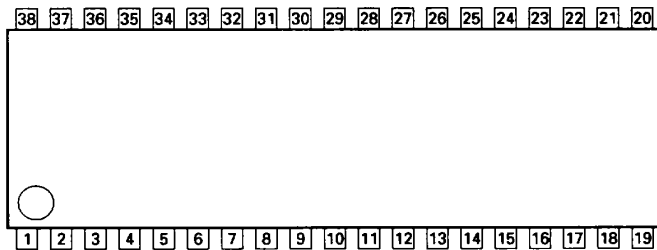
TNo.	Min	Sec
10	40	05

DEH-625R,624R,525R,524R,424R,424,425

● Pin Functions (UPC2572GS)

Pin No.	Pin Name	I/O	Function and Operation
1	EFM-IN	I	EFM comparator input
2	AGC-OUT	O	AGC amplifier output
3	C. AGC		Connects AGC peak detection condenser
4	RF-IN	I	RF signal DC component cut input
5	RF-OUT	O	RF amplifier output
6	RF-	I	RF amplifier inverted input
7	C1, 3T		Connects RF3T component detection condenser
8	C2, 3T		Connects RF3T component detection condenser
9	Vcc		Power supply
10	A	I	A signal input
11	C	I	C signal input
12	B	I	B signal input
13	D	I	D signal input
14	F	I	F signal input
15	E	I	E signal input
16	PD	I	APC amplifier input
17	LD	O	APC amplifier output
18	LDON	I	Laser diode ON/OFF input
19	VREF-OUT	O	Reference voltage output
20	VREF-IN	I	Reference voltage input
21	DET-OUT	O	Vibration detection circuit output
22	DET-IN	I	Vibration detection circuit input
23	TE-OUT2	O	Tracking error amplifier output (fourfold gain)
24	TE-OUT1	O	Tracking error amplifier output (singlefold gain)
25	TE-	I	Tracking error amplifier inverted input
26	GND		GND
27	FE-	I	Focus error amplifier inverted input
28	FE-OUT	O	Focus error amplifier output
29	C.FE	I	Focus error signal DC component cut input
30	3T-OUT	O	RF3T component output
31	MIRR	O	MIRR signal output
32	RFOK	O	RFOK signal output
33	DEFECT	O	DEFECT signal output
34	C. DEF		Connects DEFECT signal detection condenser
35	EFM-OUT	O	EFM comparator output
36	ASY	I	EFM comparator level input
37	TE-BAL	I	Tracking balance control
38	FE-BAL	I	Focus balance control

UPC2572GS



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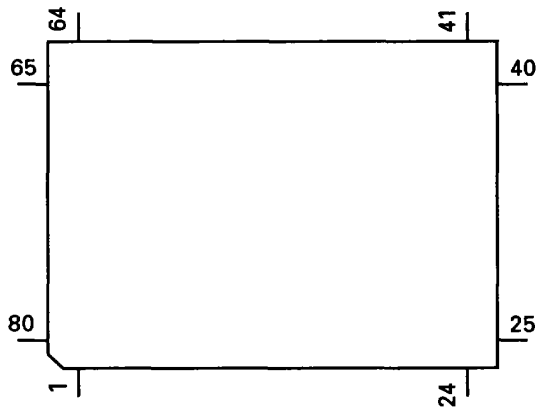
● Pin Functions (UPD63702GF)

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	RST	I	System reset input pin
3	AO	I	Microcomputer interface AO="L": STB active and set to address register AO="H": STB active and set to parameter
4	STB	I	Signal to latch serial data within the LSI
5	SCK	I	Clock input pin to input and output serial data
6	SO	O	Outputs serial data and status signal
7	SI	I	Serial data input pin
8	D.GND		Logic circuit GND
9	X.GND		Crystal oscillation circuit GND
10	XTAL	I	Crystal oscillator connection pin
11	XTAL	O	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	O	Right channel analog audio data output pin
15	R-	O	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	O	Left channel analog audio data output pin
19	L+	O	Left channel analog audio data output pin
20	DA.VDD		Supplies current of positive voltage to the D/A converter
21	D.VDD		Supplies current of positive voltage to logic circuit
22	FLAG	O	Flag output pin to indicate that audio data currently being output consists of noncorrectable data
23	WDCK	O	Pin to output double the frequency of LRCK
24	C16M	O	Pin to output the clock
25	EMPH	O	Output pin for the pre-emphasis data in the sub-Q code
26	DIN	I	Input pin for serial audio data
27	DOUT	O	Output pin for the serial audio data
28	SCKO	O	Output pin for the clock for the serial audio data
29	LRCK	O	Signals to distinguish the right and left channels of the audio data output from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
30	TX	O	Output pin for the digital audio interface data
31	CTLV	I	Oscillation control pin for high-frequency clock generation VCO used for the digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	O	Output point for phase comparison
33	D.GND		GND for the logic circuit
34	VCO	I	Input pin for the inverter
35	VCO	O	Output pin for the inverter
36	D.VDD		Supplies current of positive voltage to the logic circuit
37	PLCK	O	Pin for monitoring the bit clock
38	LOCK	O	Indicates "H" when the synchronized pattern detection signal matches the frame counter output at the EFM recovery modulation, and "L" when they don't match
39	WFCK	O	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame (approx. 7.35kHz)
40	RFCK	O	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame (approx. 7.35kHz)
41	D.GND		GND for the logic circuit
42,43	TEST0,1	I	Test pins
44,45	TM2, TM4	I	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7	I	Test pins
50,51	C1D1, C1D2	O	Output pin for indicating the C1 error correction results
52-54	C2D1-C2D3	O	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	O	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	O	The signal indicates the beginning of the subcode block. The SFSY signal is output at high level every 98 times
58	SBSO	O	Output pin for the subcode data

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Pin No.	Pin Name	I/O	Function and Operation
59	SBCK	I	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	O	Output pin for the spindle drive
62	SD	O	Output pin for the sled drive
63	TD	O	Output pin for the tracking drive
64	FD	O	Output pin for the focus drive
65	FBAL	O	Output pin for the focus balance control
66	TBAL	O	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	I	Switches coefficient banks for the tracking filter
69	EFM	I	Input pin for the EFM signal
70	HOLD	I	Input pin for the hold control signal
71	RFOK	I	Input pin for the RFOK signal
72	MIRR	I	Input pin for the MIRR signal
73	A.GND		GND for the analog circuit
74,75	VR2,1	I	The signal input through these pins is digitized to 8-bit by the A/D converter, which by operation of the assigned register, can be read into the microcomputer
76	FE	I	Inputs a focus-error signal from the RF amplifier
77	TE	I	Inputs a tracking-error signal from the RF amplifier
78	TEC	I	Input pin for the tracking comparator
79	REFOUT	O	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD		Supplies current of accurate voltage to the analog circuit

*UPD63702GF



IC's marked by* are MOS type.

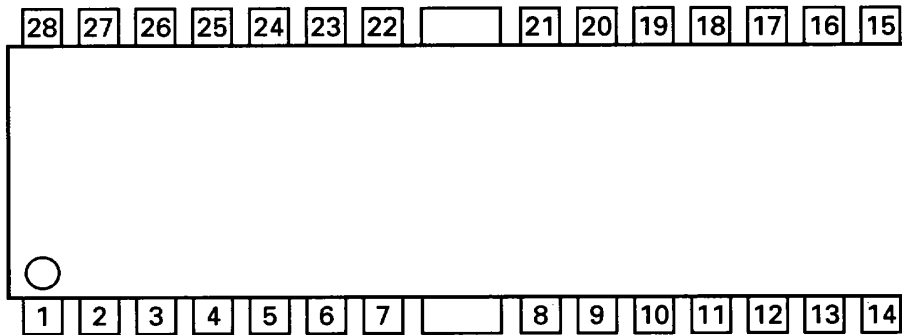
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

DEH-625R,624R,525R,524R,424R,424,425

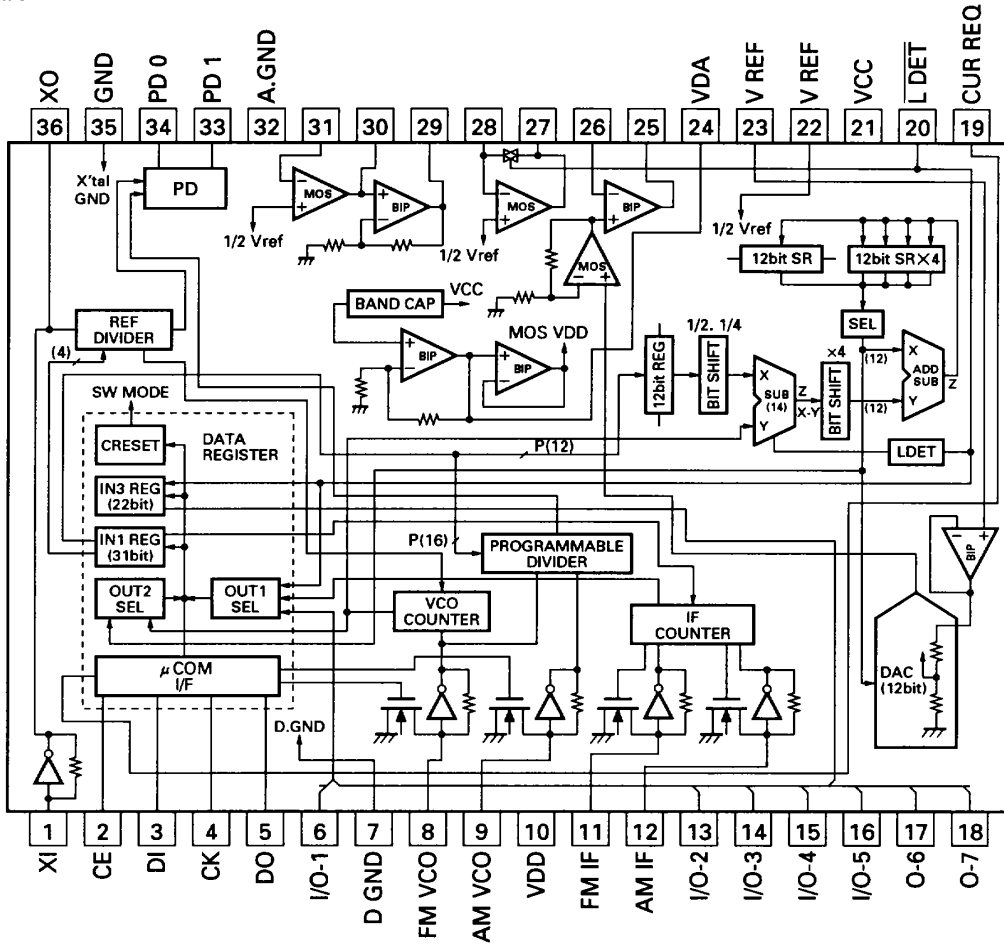
● **Pin Functions (XLA6997FP)**

Pin No.	Pin Name	I/O	Function and Operation
1	OUT1-A	O	CH1 driver output
2	OUT1-B	O	CH1 driver output
3	IN1	I	CH1 input
4	IN1'	I	CH1 gain adjustment input
5	REG-B		PowTr base connection pin for regulator
6	REG OUT	O	Regulator output PowTr collector connection
7	REG GND		Regulator GND/Common circuit GND
8	BIAS	I	BIAS input
9	MUTE		Mute control pin
10	REG SW		Regulator switch pin
11	TEMP MON		Humidity monitor pin
12	IN2	I	CH2 input
13	OUT2-B	O	CH2 driver output
14	OUT2-A	O	CH2 driver output
15	GND		GND
16	OUT3-A	O	CH3 driver output
17	OUT3-B	O	CH3 driver output
18	IN3"		CH3 gain adjustment pin
19	IN3'		CH3 gain adjustment pin
20	IN3	I	CH3 input
21,22	VCC		VCC
23	IN4	I	CH4 input
24	IN4'		CH4 gain adjustment pin
25	IN4"		CH4 gain adjustment pin
26	OUT4-B	O	CH4 driver output
27	OUT4-A	O	CH4 driver output
28	GND		GND

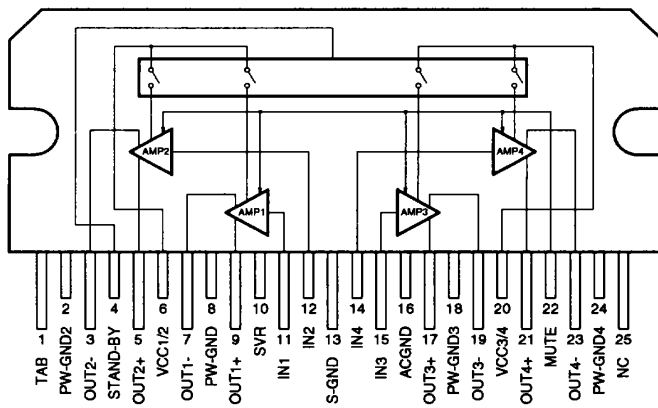
XLA6997FP



*PM2004A



PAL003A



DEH-625R,624R,525R,524R,424R,424,425

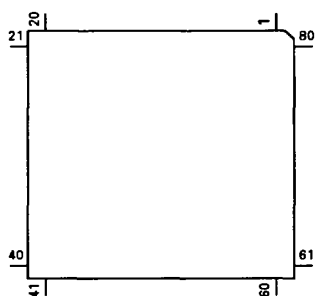
● **Pin Functions (PD4639A)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1	MODEL1	I		Model select input
2	SLIN	I		RDS signal level input
3	NL	I		RDS noise level input
4	AVSS			GND
5	ST	I		FM stereo input
6	SD	I		SD input
7	AVREF1			A/D converter reference voltage
8	KYDT	I		Key data input
9	DPDT	O	C	Display data output
10	MDSSENS	I		Modulation detect input
11	PDI	I		Data input from PLL IC
12	PDO	O	C	Data output for PLL IC
13	PCK	O	C	Serial clock output for PLL IC
14	PCE	O	C	Chip enable output for PLL IC
15	CURRQ	O	C	Tuner voltage FIX output
16	XSI	I		Data input from CD mechanism module LSI
17	XSO	O	C	Data output for CD mechanism module LSI
18	XSCK	O	C	Clock output for CD mechanism module LSI
19	DRST	O	C	RDS decoder reset output
20	AM	O	C	AM power control output
21	FM	O	C	FM power control output
22	VDCONT	O	C	VD control output
23	CONT	O	C	Servo driver power supply control
24	XAO	O	C	Command/Data output for CD mechanism module LSI
25	XRST	O	C	Reset output for CD mechanism module LSI
26	XSTB	O	C	Strobe output for CD mechanism module LSI
27	CLAMP	I		Disc clamp sense input
28	MIRR	I		Mirror detector input
29	FOK	I		Focus OK signal input
30	LOCK	I		Spindle lock detector input
31	CDLOAD	O	C	Load motor loading control output
32	NC			Not used
33	VSS			GND
34	CDEJET	O	C	Load motor eject control output
35	CD5VON	O	C	CD +5V power supply control output
36	DLED	O	N	Alarm LED output
37,38	MODEL2,3	I		Model select input
39	NC			Not used
40	MUTCNT	I		Not used
41	SWVDD	O	C	Grille power supply control output
42	SYS PW	O	C	System power supply control output
43	ILMPW	O	C	Illumination power supply control output
44	MUTE	O	C	System mute output
45	PEE	O	C	Beep tone output
46	DOORH	O	C	Door system select output
47	DRSENS	I		Door open/close sense input
48	CORR	O	C	Error output
49	VST	O	C	Strobe pulse output for electronic volume
50	VCK	O	C	Clock output for electronic volume
51	VDT	O	C	Data output for electronic volume
52	TMUTE	O	C	Tuner mute output
53	RECIVE	O	C	During RDS data reception output
54	ERROR	O	C	Disapprove of error correction output
55	DRELAY	O	C	External relay output
56	NC			Not used
57	LPFSW	O	C	Output for FIE
58	RDSLK	I		RDS LK signal input
59	RDT	I		RDS detected data input

DEH-625R,624R,525R,524R,424R,424,425

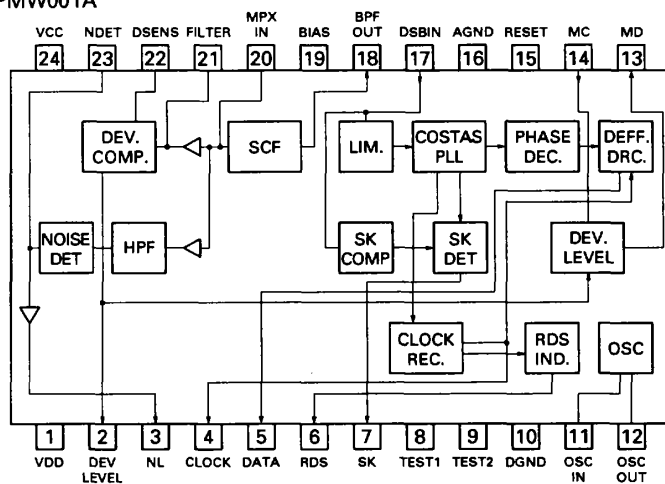
Pin No.	Pin Name	I/O	Format	Function and Operation
60	RESET	I		Reset input
61	LDET	I		PLL lock sense input
62	RCK	I		RDS demodulation clock input
63	ASENS	I		ACC power sense input
64	BSENS	I		Back up power sense input
65	DSENS	I		Grille detach sense
66	CLKIN	I		Clock input
67	L/S	O	C	RDS fuzzy control output
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2			Not used
73	TESTIN	I		Test program mode input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0			A/D converter reference voltage
76	SL	I		SD level input from tuner
77	TEMP	I		Temperature detect input
78	VDSSENS	I		VD power supply short detection input
79	DSCSNC	I		Disc sense input
80	EJTSNC	I		Disc eject position sense input

*PD4639A



Format	Meaning
C	C MOS
N	N channel open drain

*PMW001A



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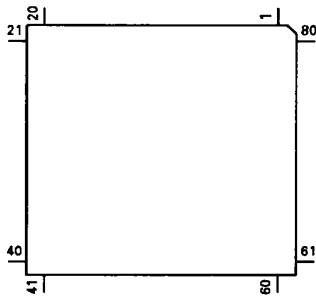
● **Pin Functions (PDR027A)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1	MODEL1	I		Model select input
2,3	NC			Not used
4	AVSS			GND
5	ST	I		FM stereo input
6	SD	I		SD input
7	AVREF1			A/D converter reference voltage
8	KYDT	I		Key data input
9	DPDT	O	C	Display data output
10	NC			Not used
11	PDI	I		Data input from PLL IC
12	PDO	O	C	Data output for PLL IC
13	PCK	O	C	Serial clock output for PLL IC
14	PCE	O	C	Chip enable output for PLL IC
15	CURRO	O	C	Tuner voltage FIX output
16	XSI	I		Data input from CD mechanism module LSI
17	XSO	O	C	Data output for CD mechanism module LSI
18	XSCR	O	C	Clock output for CD mechanism module LSI
19	NC			Not used
20	AM	O	C	AM power control output
21	FM	O	C	FM power control output
22	VDCONT	O	C	VD control output
23	CONT	O	C	Servo driver power supply control
24	XAO	O	C	Command/Data output for CD mechanism module LSI
25	XRST	O	C	Reset output for CD mechanism module LSI
26	XSTB	O	C	Strobe output for CD mechanism module LSI
27	CLAMP	I		Disc clamp sense input
28	MIRR	I		Mirror detector input
29	FOK	I		Focus OK signal input
30	LOCK	I		Spindle lock detector input
31	CDLOAD	O	C	Load motor loading control output
32	NC			Not used
33	VSS			GND
34	CDEJET	O	C	Load motor eject control output
35	CD5VON	O	C	CD +5V power supply control output
36	DLED	O	N	Alarm LED output
37,38	MODEL2,3	I		Model select input
39,40	NC			Not used
41	SWVDD	O	C	Grille power supply control output
42	SYSPW	O	C	System power supply control output
43	ILMPW	O	C	Illumination power supply control output
44	MUTE	O	C	System mute output
45	PEE	O	C	Beep tone output
46	DOORH	O	C	Door system select output
47	DRSENS	I		Door open/close sense input
48	NC			Not used
49	VST	O	C	Strobe pulse output for electronic volume
50	VCK	O	C	Clock output for electronic volume
51	VDT	O	C	Data output for electronic volume
52-54	NC			Not used
55	DRELAY	O	C	External relay output
56	TUNPW	O	C	Tuner power supply control output
57	LPFSW	O	C	Output for FIE
58,59	NC			Not used
60	RESET	I		Reset input
61	LDET	I		PLL lock sense input
62	NC			Not used
63	ASENS	I		ACC power sense input
64	BSENS	I		Back up power sense input

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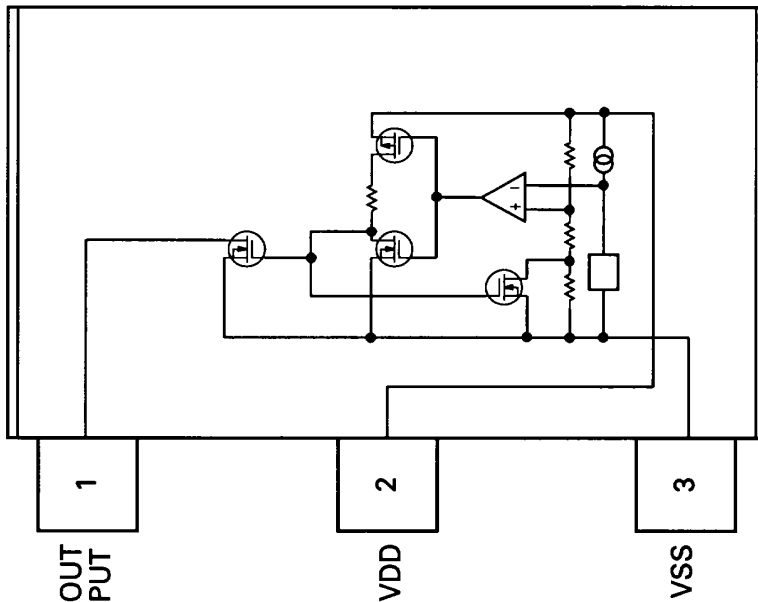
Pin No.	Pin Name	I/O	Format	Function and Operation
65	DSENS	I		Grille detach sense
66	CLKIN	I		Clock input
67	NC			Not used
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2			Not used
73	TESTIN	I		Test program mode input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0			A/D converter reference voltage
76	SL	I		SD level input from tuner
77	TEMP	I		Temperature detect input
78	VDSNS	I		VD power supply short detection input
79	DSCSNC	I		Disc sense input
80	EJTSNC	I		Disc eject position sense input

*PDR027A



Format	Meaning
C	C MOS
N	N channel open drain

*S-80734AN



8. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol & No. Part Name====	Part No.	====Circuit Symbol & No. Part Name====	Part No.
Unit Number : CWM4483		FM/AM Tuner Unit	CWE1416
Unit Name : Tuner Amp Unit(DEH-625R/EW)		EF 951	CCG1003
		BZ 601	CPV1011
MISCELLANEOUS		RESISTORS	
IC 451	SN761025DL	R 411	RS1/10S105J
IC 501	PM2004A	R 412 526	RD1/4PU472J
IC 551	PAL003A	R 413 415 416	RS1/10S224J
IC 601	PD4639A	R 417 418	RS1/10S223J
IC 602	S-80734AN	R 419 420	RS1/10S222J
IC 701	PMW001A	R 421 422	RS1/10S104J
Q 411	2SC2458	R 431	RS1/8S471J
Q 413 414	2SD1468S	R 432	RS1/10S471J
Q 421 431 432	FMG3A	R 433 434 478 691 693 711 712 713	RS1/10S102J
Q 423 441	DTA124ES	R 435 436 437 438 473	RS1/10S223J
Q 501 631 953 971 972	2SC2458	R 443 444	RD1/4PU222J
Q 502	DTC114ES	R 445 446 459 460 633	RS1/10S272J
Q 551	DTC144ES	R 461 462	RS1/10S151J
Q 632 992	FMC2A	R 463 464	RS1/10S101J
Q 641	DTC114ES	R 474 477 523 571 580 954 955 972 975	RS1/10S103J
Q 651	2SA1048	R 475 476	RD1/4PU471J
Q 653	2SB1236	R 502 511 657 668	RS1/10S222J
Q 654 952	DTC124ES	R 503 608 609 610 651 652	RD1/4PU472J
Q 701	2SC2712	R 504	RD1/4PU223J
Q 951	2SB1243	R 506 537 539 624 625 626	RS1/10S0ROJ
Q 973	2SD1859	R 507	RS1/8S473J
Q 981 991	2SD2396	R 508	RS1/10S102J
Q 982 983	2SA1674	R 509	RS1/10S472J
Q 984	FMG1A	R 513 528 664 951 978 983 993	RS1/10S472J
D 411 702	1SS133	R 514 607 659 956 971 973 974 976	RS1/10S473J
D 503 601 954 955	1SS133	R 515 516 518	RD1/4PU681J
D 631 632 951 952 961 962	1SR139-200	R 517	RD1/4PU681J
D 633	BR4361F	R 519 520	RS1/10S392J
D 657	HZS6LB2	R 521	RS1/10S152J
D 658 659 660	MA153	R 522	RS1/10S682J
D 701	MTZ5R1JB	R 524	RS1/10S561J
D 953	HZS9LA2	R 525	RD1/4PU272J
D 971	HZS7LC3	R 527	RS1/10S682J
D 972	HZS7LC2	R 529	RS1/10S681J
D 973	1SR139-200	R 530	RS1/10S222J
D 974	HZS6LB1	R 531	RS1/10S103J
D 981	HZS9LB3	R 532	RS1/10S224J
D 992	HZS9LB1	R 533	RS1/8S473J
L 501	LAU220K	R 534 605 665 707 710 958 985 986	RD1/4PU102J
L 502 601	Ferri-Inductor LAU2R2K	R 536	RS1/8S102J
L 503 631	Ferri-Inductor LAU2R2K	R 538	RS1/10S332J
L 602	Ferri-Inductor LAU101K	R 570	RS1/8S103J
L 651	Ferri-Inductor LAU101K	R 579	RS1/10S331J
L 701	Ferri-Inductor LAU101K	R 581 582 584 642	RD1/4PU102J
L 702	Inductor LCTB2R2K2125	R 583	RS1/10S562J
TH 601	Thermistor CCX1031		
X 501	Crystal Resonator 7.2MHz CSS1379		
X 601	Ceramic Resonator 4.19MHz CSS1047		
X 701	Crystal Resonator 4.332MHz CSS1056		
VR 701	Semi-fixed 22kΩ(B) CCP1208		

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====Circuit Symbol & No. Part Name====	Part No.	====Circuit Symbol & No. Part Name====	Part No.
R 601	RN1/10SE223 D	C 520	CKLSR473K16
R 602	RD1/4PU104J	C 521	CEASR47M50
R 603	RS1/10S912J	C 522 591	CEA220M10LL
R 604	RS1/10S393J	C 523	CKSQYB104K50
R 606	RS1/10S124J	C 524 525	CCSQCH150J50
R 621 622 638 639	RD1/4PU473J	C 526	CKSYB332K50
R 630	RD1/4PU473J	C 530 536	CKSQYB103K50
R 631	RD1/4PU103J	C 531	CCSQCH101J50
R 632	RS1/8S223J	C 532	CKSQYB103K50
R 634 952 953	RD1/4PU331J	C 539	CKSQYB473K50
R 641	RS1/10S202J	C 551 553 554	CEAR22M50LL
R 653 654 655 681 683 684	RD1/4PU222J	C 552	CEAR22M50LL
R 656	RD1/4PU472J	C 556	CCH1150
R 658	RS1/8S222J	C 571	CEA330M10LL
R 661 981	RS1/10S1R0J	C 573	CKSYB104K50
R 682	RD1/4PU222J	C 605	CCSQCH101J50
R 688	RD1/4PU681J	C 606	CKSQYB473K50
R 692	RS1/8S102J	C 652	CEA4R7M35LL
R 701	RS1/8S102J	C 701	CKSYB105K16
R 702	RD1/4PU221J	C 704	CKSQYB222K50
R 703	RS1/8S103J	C 705	CKSYB104K50
R 704	RS1/10S0R0J	C 706	CKSQYB472K50
R 706	RS1/10S0R0J	C 707	CKSQYB104K50
R 709	RS1/10S333J	C 709	CEA4R7M35LL
R 714	RS1/10S102J	C 710	CKSQYB223K50
R 715	RS1/8S562J	C 714	CKSYB104K25
R 716	RS1/8S104J	C 715	CKSQYB223K50
R 717	RS1/10S104J	C 971	CCH-114
R 977	RS1/10S101J	C 973	CEA101M10LL
R 982	RD1/4PU471J	C 981	CEAS331M10
R 984	RS1/8S472 J	C 982	CKSQYB103K50
R 987	RS1/10S221J	C 983	CEA101M16LL
R 991 992	RD1/4PU221J	C 993	CEA101M10LS
R 994	RS1/10S122J		
CAPACITORS		Unit Number : CWM4605 Unit Name : Key Board Unit(DEH-625R/EW)	
C 411	CKSQYB471K50	MISCELLANEOUS	
C 412	CKSQYB473K50	IC 901	PD6122A
C 421 422	CEA3R3M50LL	IC 902	RPM-678CBR
C 431 432 433 434 457 458 463 464 473 570	CEA100M16LL	D 901 902	DA204K
C 435 436 437 438 711 712	CCSQCH220J50	D 903	MA3051M
C 441 442	CEA010M50LL	L 901	Inductor LCTB4R7K3216
C 443	CKSQYB223K25	X 901	Ceramic Resonator 4.97MHz
C 444	CKSQYB223K50	IL 901 902 903 904	Lamp 14V 40mA
C 445 446 447	CKSQYB102K50	IL 905	Lamp 14V 40mA
C 451 452 469 470 474 490 607	CEA2R2M50LL		LCD CAW1350
C 453 454 604 708	CEA4R7M35LL	RESISTORS	
C 455	CKSYF104Z25	R 901 902 903	RS1/8S222J
C 456	CKSQYF104Z25	R 906	RS1/10S470J
C 459 460	CKSQYB822K50	R 907 910	RS1/10S0R0J
C 461 462 572 574	CEA010M50LL	R 911 912 913 914	RS1/10S471J
C 465 466	CKSQYB152K50	CAPACITORS	
C 467 468	CCSQCH101J50	C 901 902 903 904	CKSQYB103K50
C 471 472	CKSQYB333K25	C 905	CEA470M6R3LS
C 477 482 713	CKSQYB104K50	C 906	CKSQYB473K50
C 478 501 508 517 519 527 529 590 703	CKSQYB103K50	Unit Number : CWE1416 Unit Name : FM/AM Tuner Unit(Except for DEH-424R/GR)	
C 481	CEA470M10LL	MISCELLANEOUS	
C 483 484	CKSQYB183K25	IC 1	PA4023A
C 485 486 507 513 992	CKSQYB102K50	IC 2	PA4024A
C 502 503 515 535	CKSQYB223K50	Q 1 31 165 202	2SC2412KLN
C 504 651 972 974 991	CKSQYB473K50	Q 2 154 203	DTC124EU
C 505	CCSCH101J50	Q 3	3SK263
C 506	CKSYB103K50		
C 510 512	CEA220M10LL		
C 516	CCH1165		
C 518	CCH1165		
	4.7μF/16V		
	4.7μF/16V		

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====Circuit Symbol & No. Part Name====	Part No.	====Circuit Symbol & No. Part Name====	Part No.
Q 201	2SK932	R 207	RS1/16S101J
D 4	1SV251	R 208 217	RS1/16S102J
D 5 7 8	KV1410	R 209	RS1/16S471J
D 6 201 202	MA157	R 214	RS1/16S822J
D 231	SVC253	R 231	RS1/16S272J
L 2 4	CTC1108	R 232	RS1/16S473J
L 3	LCTB2R2K2125	R 237	RS1/16S103J
L 5	CTC1107	R 238	RS1/16S104J
L 6	LCTBR15K1608	R 240	RS1/16S332J
L 51	Ferri-Inductor LAU150K	R 241	RS1/16S202J
L 201	Ferri-Inductor LAU4R7K	R 244	RS1/16S103J
L 202	Ferri-Inductor LAU330K	CAPACITORS	
L 203	Inductor CTF1287		
L 208	Inductor LAU121K		
L 231	Inductor LAU3R3J		
T 31	Coil CTE1116	C 1	CCSQCH060D50
T 51	Coil CTC1136	C 2	CCSRCH020C50
TC 1	Trimmer CCL1042	C 4	CCSRCH820J50
CF 51 52 53	Ceramic Filter CTF1292	C 6	CCSRCH820J50
CF 232	Ceramic Filter CTF1348	C 8 18 25 31 52 59 62 105 107 213	CKSRYP103K25
X 151	Ceramic Resonator 920.5kHz CSS1365	C 9 34 56 152 160 241	CKSQYB104K16
X 231	Crystal Resonator 10.26MHz CSS1111	C 10	CCSRCH0R5C50
VR 154	Semi-fixed 68kΩ(B) CCP1211	C 11	CEA010M50LL
AR 1	Capacitor with Discharge Gap DSP-201M	C 12 13 17 19 20	CKSRYPB222K50
RESISTORS		C 14	CCSRCH220J50
R 1	RS1/16S0R0J	C 16	CCSRCH080D50
R 4	RS1/16S154J	C 21	CEA100M16LL
R 5	RS1/16S391J	C 22	CCSRTH090D50
R 6 10 202	RS1/16S223J	C 23	CCSRTH120J50
R 7 243 247	RS1/16S123J	C 24	CCSRCH471J50
R 8 17	RS1/16S332J	C 32	CKSQYB472K50
R 9	RS1/16S473J	C 33	CCSRCH050C50
R 11	RS1/16S124J	C 36	CCSRRH201J50
R 13	RS1/16S563J	C 51	CKSRYPB223K25
R 15	RS1/16S271J	C 54	CCSRCH470J50
R 16	RS1/16S104J	C 55	CKSQYB223K25
R 18	RS1/16S332J	C 57	CKSRYPB472K50
R 31	RS1/16S470J	C 58 234	CEA330M10LL
R 32 215	RS1/16S822J	C 61	CCSRCH270J50
R 33	RS1/16S822J	C 63	CEAR15M50LL
R 34 35	RS1/16S331J	C 101	CEA100M10NPLL
R 51	RS1/16S271J	C 102	CKSRYPB182K50
R 52	RS1/16S560J	C 103	CKSRYPB682K25
R 55	RS1/16S102J	C 104	CEA2R2M50LL
R 56	RS1/16S823J	C 106	CCSRCH151J50
R 61	RS1/16S392J	C 151	CKSRYPB472K50
R 62 152	RS1/16S393J	C 153 157	CEA3R3M50LL
R 101	RS1/16S272J	C 154	CKSQYB104K16
R 102	RS1/16S682J	C 158	CKSYB474K16
R 103	RS1/16S333J	C 159	CEA220M6R3LL
R 104	RS1/16S334J	C 161 209	CKSQYB104K16
R 105	RS1/16S683J	C 162	CEA3R3M50LL
R 107	RS1/16S222J	C 163	CKSRYPB102K50
R 151	RS1/16S222J	C 170 202	CCSRCH100D50
R 154 239	RS1/16S104J	C 201 250	CCSRCH471J50
R 155	RS1/16S273J	C 203 235	CKSRYPB332K50
R 156	RS1/16S243J	C 204 205 236 244	CKSQYB473K16
R 157	RS1/16S203J	C 206 233	CKSQYB104K16
R 160	RS1/16S222J	C 207	CCSRCH560J50
R 161	RS1/16S563J	C 211	CCSRCH101J50
R 162	RS1/16S105J	C 212	CEA470M6R3LL
R 163	RS1/16S222J	C 216	CCSRCH101J50
R 203	RS1/16S225J	C 217	CEA1R5M50LL
R 204	RS1/16S103J	C 219	CCSRCH471J50
R 206	RS1/16S220J	C 220 230	CKSRYPB103K25
		C 231	CCSRCH330J50
		C 232	CCSRCH150J50
		C 237	CCSRCH180J50
		C 239	CKSRYPB472K50
		C 240 242	CEAR47M50LL

DEH-625R,624R,525R,524R,424R,424,425

====Circuit Symbol & No. Part Name====	Part No.	====Circuit Symbol & No. Part Name====	Part No.
C 243	CEAR33M50LL	R 162	RS1/16S105J
C 245	CKSRYP123K25	R 163	RS1/16S222J
C 246	CKSQYB473K16	R 203	RS1/16S225J
Unit Number : CWE1420		R 204	RS1/16S103J
Unit Name : FM/AM Tuner Unit(DEH-424R/GR)		R 206	RS1/16S220J
MISCELLANEOUS		R 207	RS1/16S101J
IC 1	PA4023A	R 208 217	RS1/16S102J
IC 2	PA4024A	R 214	RS1/16S822J
Q 1 31 165	2SC2412KLN	R 231	RS1/16S272J
Q 2 154	DTC124EU	R 237	RS1/16S103J
Q 3	3SK263	R 238	RS1/16S104J
D 4	1SV251	R 240	RS1/16S332J
D 5 7 8	KV1410	R 241	RS1/16S202J
D 6	MA157	CAPACITORS	
L 2 4	CTC1108	C 1	CCSQCH060D50
L 3 Inductor	LCTB2R2K2125	C 2	CCSRCH020C50
L 5	CTC1107	C 4	CCSRCH820J50
L 6 Inductor	LCTBR15K1608	C 6	CCSRCH820J50
L 51 Ferri-Inductor	LAU150K	C 8 18 25 31 52 59 62 105 107	CKSRYP103K25
T 31 Coil	CTE1116	C 9 34 56 152 160	CKSQYB104K16
T 51 Coil	CTC1136	C 10	CCSRCH0R5C50
TC 1 Trimmer	CCL1042	C 11	CEA010M50LL
CF 51 52 53 Ceramic Filter	CTF1292	C 12 13 17 19 20	CKSRYP222K50
X 151 Ceramic Resonator 920.5kHz	CSS1365	C 14	CCSRCH220J50
X 231 Crystal Resonator 10.26MHz	CSS1111	C 16	CCSRCH080D50
VR 154 Semi-fixed 68kΩ(B)	CCP1211	C 21	CEA100M16LL
AR 1 Capacitor with Discharge Gap	DSP-201M	C 22	CCSRTH090D50
RESISTORS		C 23	CCSRTH120J50
R 1	RS1/16S0R0J	C 24	CCSRCH471J50
R 4	RS1/16S154J	C 32	CKSQYB472K50
R 5	RS1/16S391J	C 33	CCSRCH050C50
R 6 10 202	RS1/16S223J	C 36	CCSRRH201J50
R 7 247	RS1/16S123J	C 51	CKSRYP223K25
R 8 17	RS1/16S332J	C 54	CCSRCH470J50
R 9	RS1/16S473J	C 55	CKSQYB223K25
R 11	RS1/16S124J	C 57	CKSRYP472K50
R 13	RS1/16S563J	C 58	CEA330M10LL
R 15	RS1/16S271J	C 61	CCSRCH270J50
R 16	RS1/16S104J	C 63	CEAR15M50LL
R 18	RS1/16S332J	C 101	CEA100M10NPLL
R 31	RS1/16S470J	C 102	CKSRYP182K50
R 32 215	RS1/16S822J	C 103	CKSRYP682K25
R 33	RS1/16S822J	C 104	CEA2R2M50LL
R 34 35	RS1/16S331J	C 106	CCSRCH151J50
R 51	RS1/16S271J	C 151	CKSRYP472K50
R 52	RS1/16S560J	C 153 157	CEA3R3M50LL
R 55	RS1/16S102J	C 154	CKSQYB104K16
R 56	RS1/16S823J	C 158	CKSYB474K16
R 61	RS1/16S392J	C 159	CEA220M6R3LL
R 62 152	RS1/16S393J	C 161	CKSQYB104K16
R 101	RS1/16S272J	C 162	CEA3R3M50LL
R 102	RS1/16S682J	C 163	CKSRYP102K50
R 103	RS1/16S333J	C 170	CCSRCH100D50
R 104	RS1/16S334J	C 207	CCSRCH560J50
R 105	RS1/16S683J	Unit Number : CWX1889	
R 107	RS1/16S222J	Unit Name : Control Unit	
R 151	RS1/16S222J	MISCELLANEOUS	
R 154	RS1/16S104J	IC 101	UPC2572GS
R 155	RS1/16S273J	IC 201	UPD63702GF
R 156	RS1/16S243J	IC 301	XLA6997FP
R 157	RS1/16S203J	IC 302	XRA6285FP
R 160	RS1/16S222J	IC 601	TA2063F
R 161	RS1/16S563J		

DEH-625R,624R,525R,524R,424R,424,425

====Circuit Symbol & No. Part Name====	Part No.	====Circuit Symbol & No. Part Name====	Part No.
IC 701	PQ05TZ51	C 106 304	CKSRYP103K25
Q 101	2SD1664	C 107 603 604	CEV4R7M35
Q 102	UMD2N	C 108	CKSQYB273K50
Q 601 602	2SD1781K	C 109	CCSRCH101J50
Q 603	2SB709A	C 110 202	CKSQYB104K16
D 601	MA151WA	C 111	CKSRYP332K50
D 701 702	1SR154-400	C 112	CKSQYB473K16
D 801 802 LED	CL200IRX	C 113	CKSRYP103K25
X 201 Ceramic Resonator 16.93MHz	CSS1363	C 114	CKSRYP391K50
S 801 802 Switch(Home, Clamp)	CSN1028	C 115	CCSRCH121J50
RESISTORS		C 116	CKSRYP682K25
R 101	RS 1/8S100J	C 117	CKSRYP333K16
R 102	RS 1/8S120J	C 118 201	CKSYB334K16
R 103	RS 1/16S102J	C 119	CKSYB334K16
R 104	RS 1/16S822J	C 120 121 702	CKSYB334K16
R 105	RS 1/16S682J	C 122 124	CKSQYB104K16
R 106	RS 1/16S183J	C 123	CKSRYP472K50
R 107	RS 1/16S822J	C 125	CCSRCH060D50
R 108	RS 1/16S333J	C 126	CKSRYP153K25
R 109	RS 1/16S683J	C 127	CCSRCH102J25
R 110	RS 1/16S134J	C 203	CKSQYB104K16
R 111	RS 1/16S273J	C 303	CEV470M16
R 112	RS 1/16S222J	C 305 306	CKSRYP103K25
R 113 114 607	RS 1/16S103J	C 502	CKSRYP471K50
R 115	RS 1/16S102J	C 602	CKSQYB104K16
R 116 117	RS 1/16S163J	C 605 606	CKSRYP152K50
R 201	RS 1/16S104J	C 607	CEV220M6R3
R 202	RS 1/16S473J	C 701	CCH1233
R 304 501	RS 1/16S0R0J	C 901 903	CCSRCH471J50
R 505	RS 1/16S102J	C 902	CCSRCH271J50
R 507	RA4C102J	C 904	CCSRCH101J50
R 508	RA4C681J	Unit Number :	
R 510	RS 1/10S0R0J	Unit Name :	Detector P.C.Board
R 601 602	RS 1/16S102J	Q 1 2	Photo Transistor
R 603 604	RS 1/16S223J		CPT-230S-X
R 605 606	RS 1/16S162J		
R 801 802	RS 1/8S751J	Miscellaneous Parts List	
CAPACITORS		M 1	PU Unit
C 101 601 703	CEV101M6R3	M 2	Motor Unit(Spindle)
C 102	CKSQYB104K16	M 3	CRG Motor Unit(Carriage)
C 103	CEV470M6R3		Load Motor Unit>Loading)
C 104	CKSYB334K16		CGY1070
C 105	CCSRCH330J50		CXA9100
			CXA8986
			CXA8702

● The DEH-624R/EW, DEH-525R/EW, DEH-524R/EW, DEH-424R/GR, DEH-424/EW, and DEH-425/IT Parts Lists enumerate the parts which differ from those enumerated in the DEH-625R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-625R/EW Parts List is given on page 24.

Key Board Unit

Circuit Symbol & No.	DEH-625R/EW	DEH-624R/EW	DEH-525R/EW	DEH-524R/EW	DEH-424R/GR	DEH-424/EW	DEH-425/IT
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
IC902	RPM-678CBR	RPM-678CBR	*****	*****	*****	*****	*****
D903	MA3051M	MA3051L	MA3051M	MA3051L	MA3051L	MA3051L	MA3056L
LCD	CAW1350	CAW1328	CAW1350	CAW1328	CAW1328	CAW1330	CAW1330
IL901-905	CEL1341	CEL1295	CEL1341	CEL1295	CEL1295	CEL1295	CEL1341
R905	*****	*****	RS1/10S470J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J
R906	RS1/10S470J	RS1/10S470J	*****	*****	*****	*****	*****
R907,910	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	*****	*****
R908,909	*****	*****	*****	*****	*****	RS1/10S0R0J	RS1/10S0R0J
C905	CEA470M6R3LS	CEA470M6R3LS	*****	*****	*****	*****	*****

DEH-625R,624R,525R,524R,424R,424,425

Tuner Amp Unit

Circuit Symbol & No.	DEH-625R/EW	DEH-525R/EW	DEH-424R/GR	DEH-424/EW
	DEH-624R/EW	DEH-524R/EW		DEH-425/IT
	Part No.	Part No.	Part No.	Part No.
IC601	PD4639A	PD4639A	PD4639A	PDR027A
IC701	PMW001A	PMW001A	PMW001A	.....
Q411	2SC2458	2SC2458	2SC2458	.....
Q413,414	2SD1468S	2SD1468S	2SD1468S	.....
Q421	FMG3A	FMG3A	.....	.....
Q423	DTA124ES	DTA124ES	.....	.....
Q432	FMG3A	.....	.....	.....
Q631	2SC2458	.....	.....	.....
Q632	FMC2A	.....	.....	.....
Q641	DTC114ES	DTC114ES	DTC114ES	.....
Q701	2SC2712	2SC2712	2SC2712	.....
Q983	2SA1674	2SA1674	.....	2SA1674
D411,702	1SS133	1SS133	1SS133	.....
D504	.....	.....	.....	1SS133
D631,632	1SR139-200	.....	.....	.....
D633	BR4361F	.....	.....	.....
D701	MTZ5R1JB	MTZ5R1JB	MTZ5R1JB	.....
BZ601	CPV1011	CPV1011	CPV1011	.....
VR701	CCP1208	CCP1208	CCP1208	.....
X701	CSS1056	CSS1056	CSS1056	.....
L501	LAU220K	LAU220K	.....	LAU220K
L631	LAU2R2K	.....	.....	.....
L701	LAU101K	LAU101K	LAU101K	.....
L702	LCTB2R2K2125	LCTB2R2K2125	LCTB2R2K2125	.....
FM/AM Tuner Unit	CWE1416	CWE1416	CWE1420	CWE1416
R411	RS1/10S105J	RS1/10S105J	RS1/10S105J	.....
R412	RD1/4PU472J	RD1/4PU472J	RD1/4PU472J	.....
R413,415,416	RS1/10S224J	RS1/10S224J	RS1/10S224J	.....
R417,418	RS1/10S223J	RS1/10S223J	RS1/10S223J	.....
R419,420	RS1/10S222J	RS1/10S222J	RS1/10S222J	.....
R421,422	RS1/10S104J	RS1/10S104J	.....	.....
R433,434	RS1/10S102J	.....	.....	.....
R437,438	RS1/10S223J	.....	.....	.....
R441,442	.....	.....	.....	RS1/10S0R0J
R477	RS1/10S103J	.....	.....	.....
R478	RS1/10S102J	.....	.....	.....
R501	.....	.....	.....	RS1/8S102J
R519,520	RS1/10S392J	RS1/10S392J	.....	RS1/10S392J
R521	RS1/10S152J	RS1/10S152J	.....	RS1/10S152J
R523	RS1/10S103J	RS1/10S103J	.....	RS1/10S103J
R533	RS1/8S473J	RS1/8S473J	RS1/8S473J	RS1/8S0R0J
R602	RD1/4PU104J	RD1/4PU912J	RD1/4PU912J	RD1/4PU104J
R603	RS1/10S912J	RS1/10S104J	RS1/10S104J	RS1/10S912J
R625	RS1/10S0R0J	RS1/10S0R0J	.....	.....

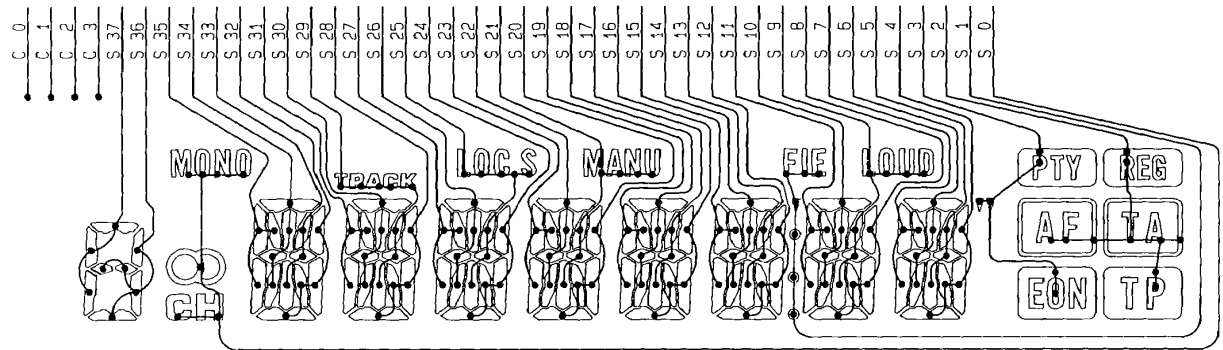
DEH-625R,624R,525R,524R,424R,424,425

Circuit Symbol & No.	DEH-625R/EW	DEH-524R/EW		DEH-424/IT
	DEH-624R/EW	DEH-525R/EW	DEH-424R/GR	DEH-425/EW
	Part No.	Part No.	Part No.	Part No.
R628	.....	.....	RS1/10S473J	RS1/10S473J
R630	RD1/4PU473J	.....	.....	.....
R631	RD1/4PU103J	.....	.....	.....
R632	RS1/8S223J	.....	.....	.....
R633	RS1/10S272J	.....	.....	.....
R634	RD1/4PU331J	.....	.....	.....
R641	RS1/10S202J	RS1/10S202J	RS1/10S202J	.....
R642	RD1/4PU102J	RD1/4PU102J	RD1/4PU102J	.....
R701	RS1/8S102J	RS1/8S102J	RS1/8S102J	.....
R702	RD1/4PU221J	RD1/4PU221J	RD1/4PU221J	.....
R703	RS1/8S103J	RS1/8S103J	RS1/8S103J	.....
R704,706	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	.....
R707,710	RD1/4PU102J	RD1/4PU102J	RD1/4PU102J	.....
R709	RS1/10S333J	RS1/10S333J	RS1/10S333J	.....
R711,712,713,714	RS1/10S102J	RS1/10S102J	RS1/10S102J	.....
R715	RS1/8S562J	RS1/8S562J	RS1/8S562J	.....
R716	RS1/8S104J	RS1/8S104J	RS1/8S104J	.....
R717	RS1/10S104J	RS1/10S104J	RS1/10S104J	.....
R958	RD1/4PU102J	.....	.....	.....
R984	RS1/8S472J	RS1/8S472J	.....	RS1/8S472J
R986	RD1/4PU102J	RD1/4PU102J	.....	RD1/4PU102J
C411	CKSQYB471K50	CKSQYB471K50	CKSQYB471K50	.....
C412	CKSQYB473K50	CKSQYB473K50	CKSQYB473K50	.....
C421,422	CEA3R3M50LL	CEA3R3M50LL	.....	.....
C433,434	CEA100M16LL	.....	.....	.....
C437,438	CCSQCH220J50	.....	.....	.....
C441,442	CEA010M50LL	CEA010M50LL	CEA010M50LL	.....
C444	CKSQYB223K50	CKSQYB223K50	CKSQYB223K25	CKSQYB223K25
C490	CEA2R2M50LL	.....	.....	.....
C509	.....	.....	.....	CKSQYB223K50
C516	CCH1165	CCH1165	.....	CCH1165
C517	CKSQYB103K50	CKSQYB103K50	.....	CKSQYB103K50
C520	CKLSR473K16	CKLSR473K16	.....	CKLSR473K16
C521	CEASR47M50	CEASR47M50	.....	CEASR47M50
C526	CKSYB332K50	CKSYB332K50	.....	CKSYB332K50
C701	CKSYB105K16	CKSYB105K16	CKSYB105K16	.....
C703	CKSQYB103K50	CKSQYB103K50	CKSQYB103K50	.....
C704	CKSQYB222K50	CKSQYB222K50	CKSQYB222K50	.....
C705	CKSYB104K50	CKSYB104K50	CKSYB104K50	.....
C706	CKSQYB472K50	CKSQYB472K50	CKSQYB472K50	.....
C707,713	CKSQYB104K50	CKSQYB104K50	CKSQYB104K50	.....
C708,709	CEA4R7M35LL	CEA4R7M35LL	CEA4R7M35LL	.....
C710,715	CKSQYB223K50	CKSQYB223K50	CKSQYB223K50	.....
C711,712	CCSQCH220J50	CCSQCH220J50	CCSQCH220J50	.....
C714	CKSYB104K25	CKSYB104K25	CKSYB104K25	.....

9. LCD

- CAW1350 (DEH-625R/EW, 525R/EW)
- CAW1328 (DEH-624R/EW, 524R/EW, 424R/GR)

SEGMENT



COMMON

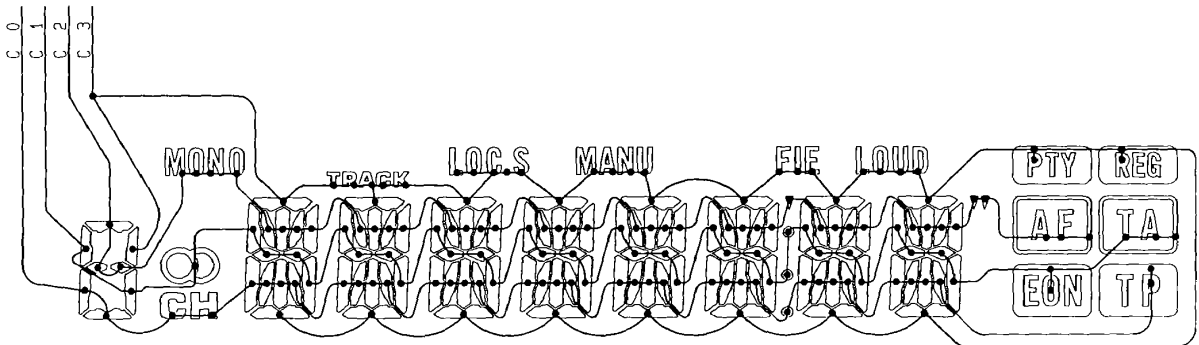
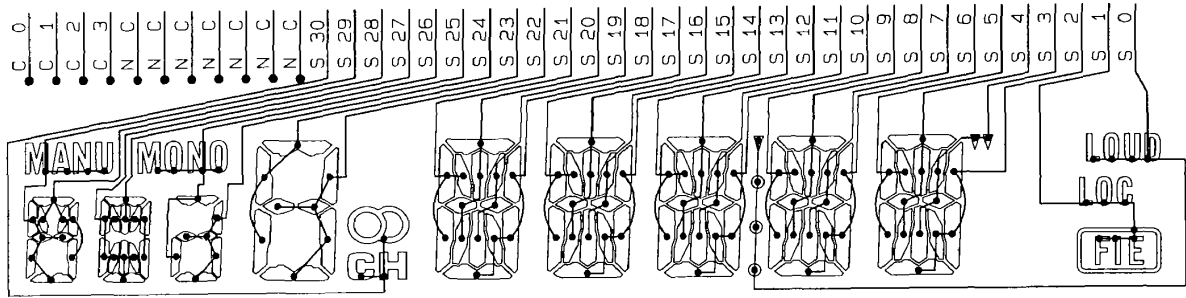


Fig. 4

DEH-625R,624R,525R,524R,424R,424,425

● CAW1330 (DEH-424/EW, 425/IT)

SEGMENT



COMMON

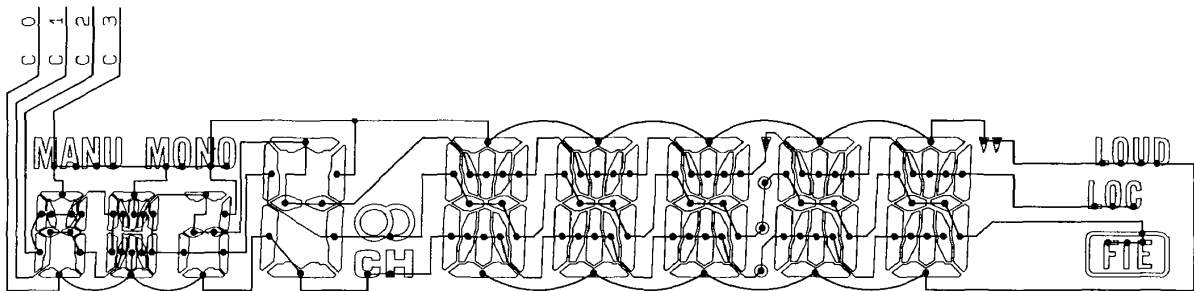


Fig. 5

10. BLOCK DIAGRAM

● DEH-625R/EW

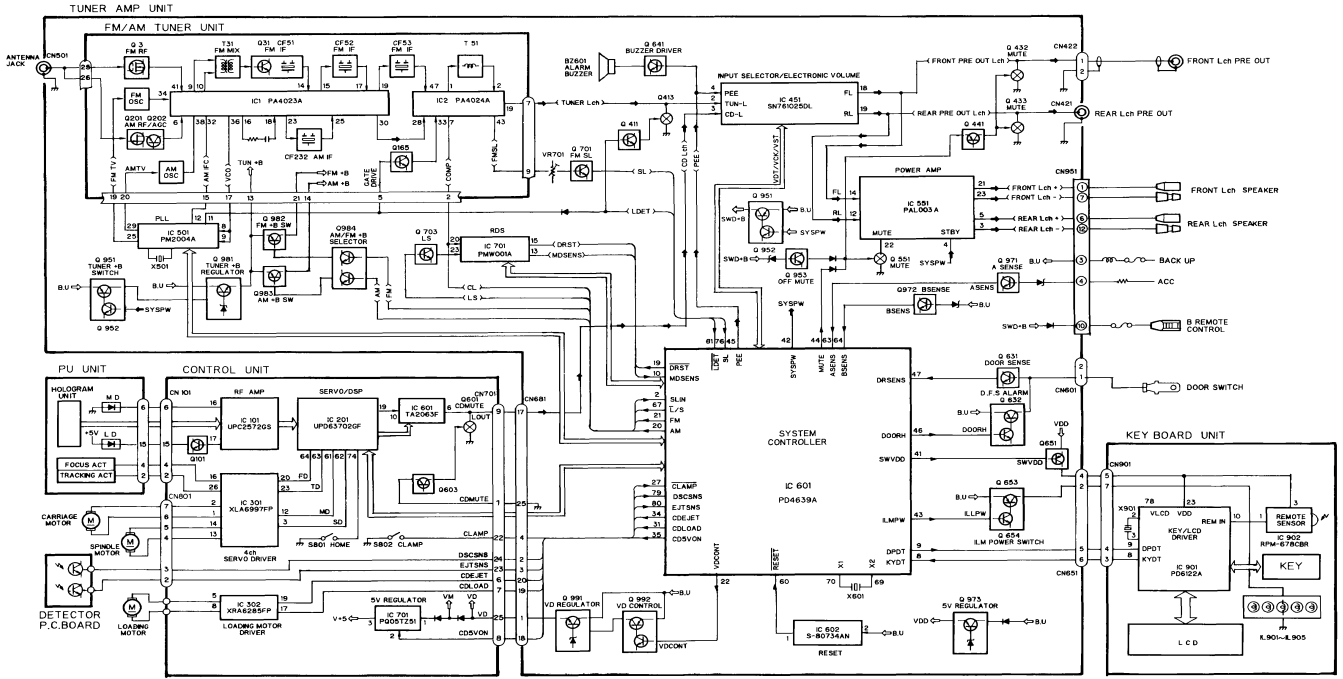
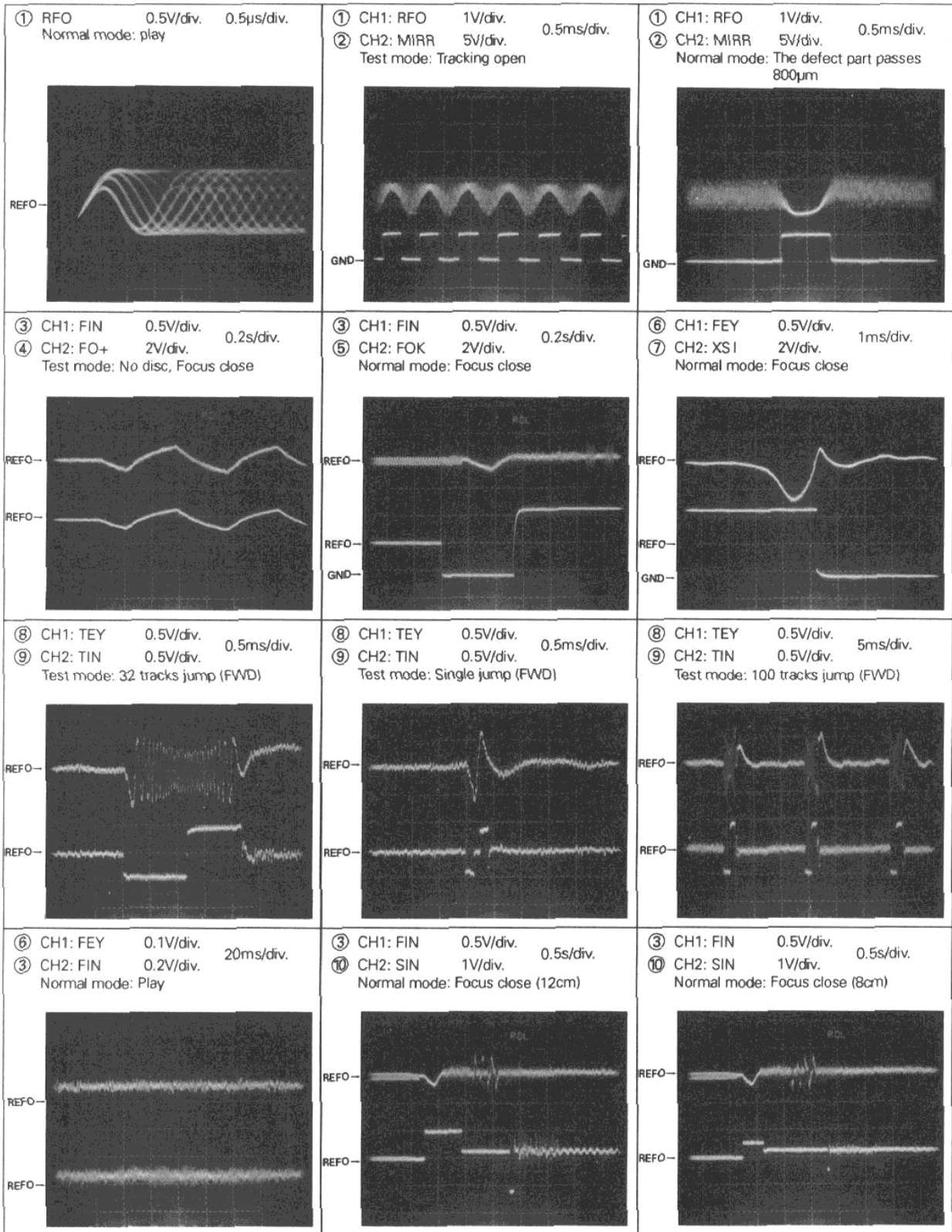
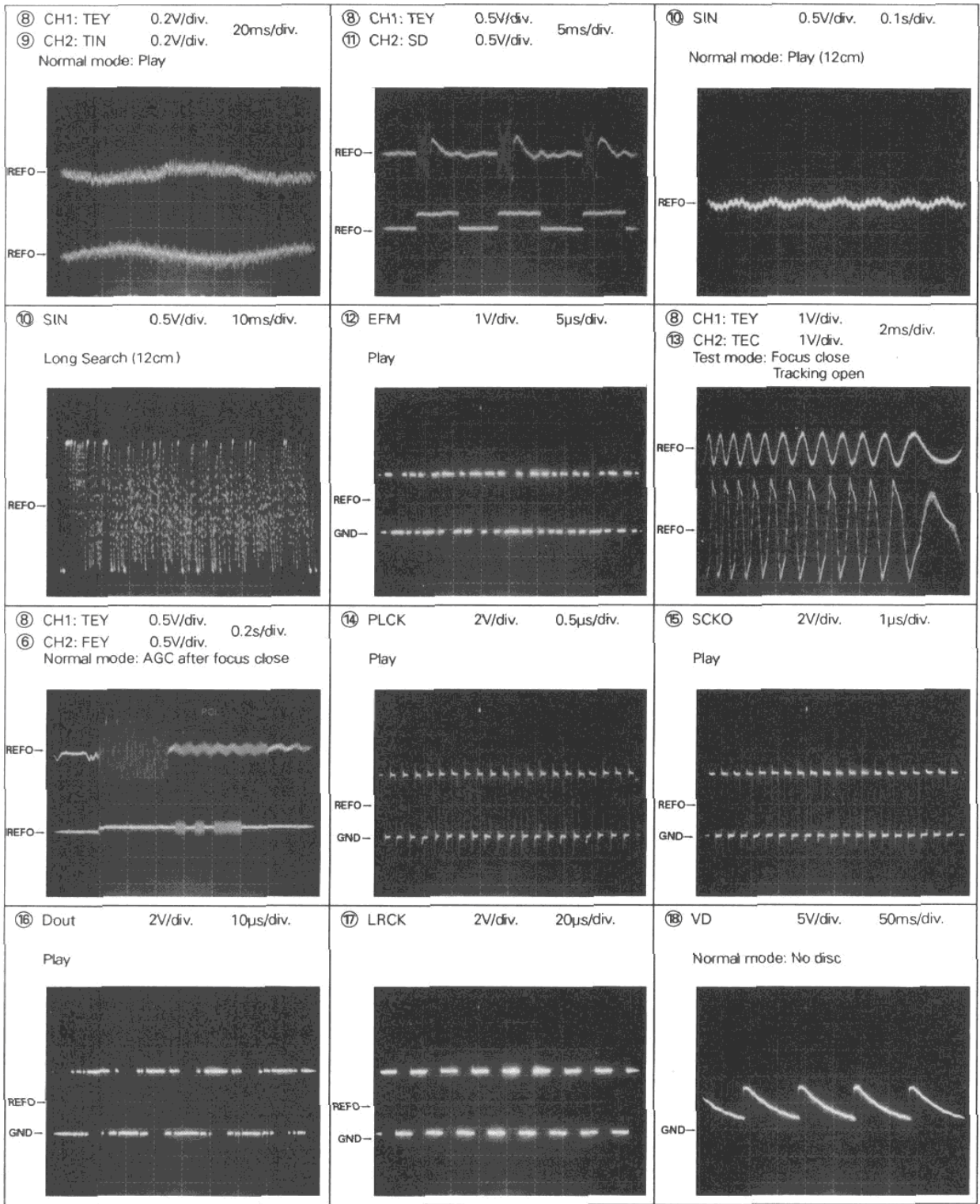


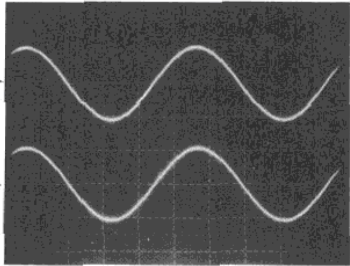
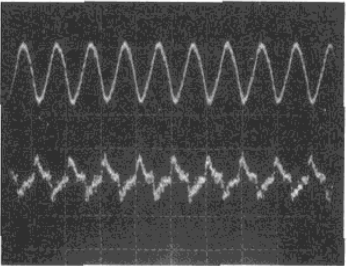
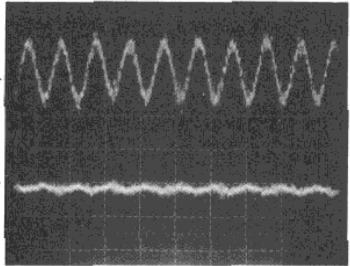
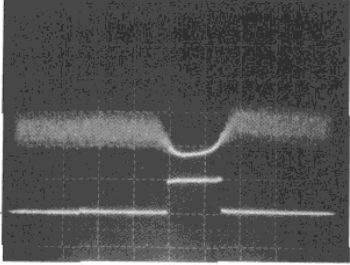
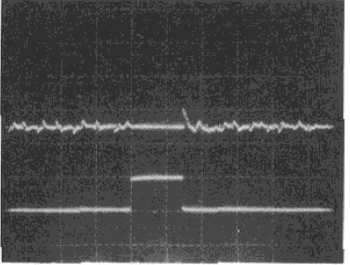
Fig. 6

● Waveforms

Note: 1. The encircled numbers denote measuring points in the circuit diagram.
 2. Reference voltage REFO: 2.5V

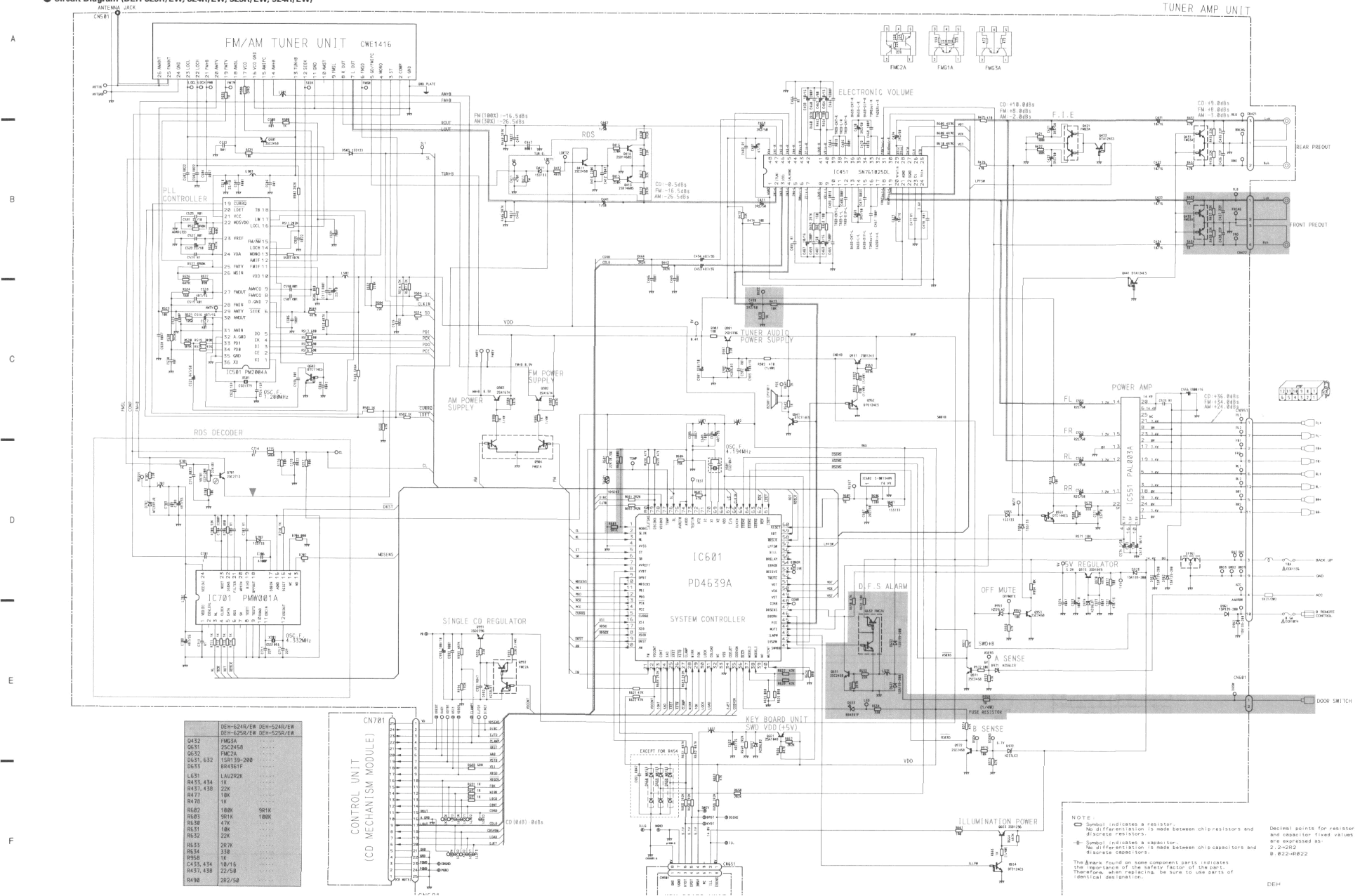




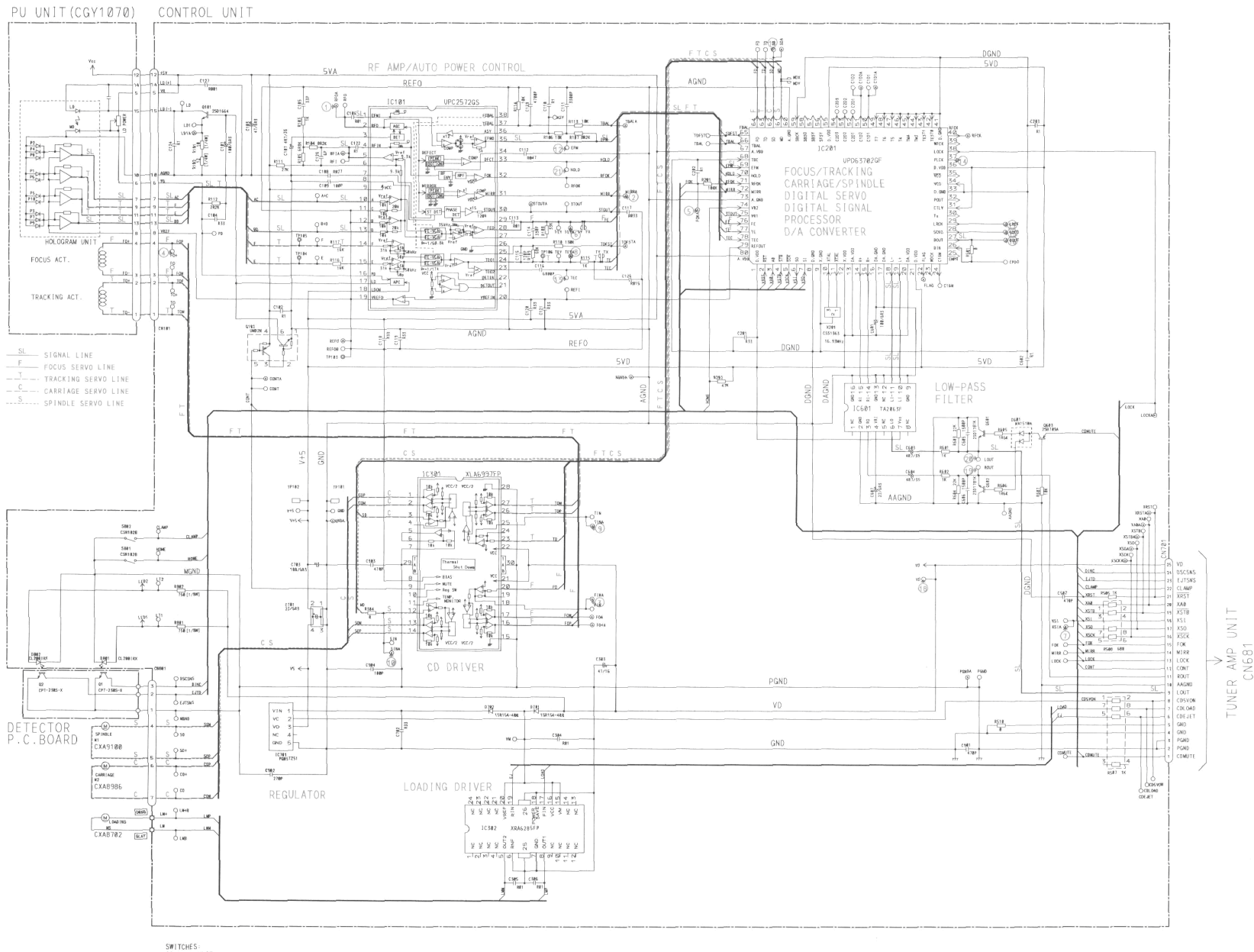
<p>⑰ CH1: R OUT 1V/div. 0.2ms/div. ⑳ CH2: L OUT 1V/div. 0.2ms/div. Normal mode: Play (1kHz 0dB)</p> 	<p>⑥ CH1: FEY 0.2V/div. 1ms/div. ③ CH2: FIN 0.5V/div. 1ms/div. Normal mode: During AGC</p> 	<p>⑧ CH1: TEY 0.2V/div. 1ms/div. ⑨ CH2: TIN 0.5V/div. 1ms/div. Normal mode: During AGC</p> 
<p>① CH1: RFO 1V/div. 0.5ms/div. ㉑ CH2: HOLD 5V/div. 0.5ms/div. Normal mode: The defect part passes 800μm</p> 	<p>③ CH1: FIN 1V/div. 0.5ms/div. ㉑ CH2: HOLD 5V/div. 0.5ms/div. Normal mode: The defect part passes 800μm</p> 	<p></p>
<p></p>	<p></p>	<p></p>
<p></p>	<p></p>	<p></p>

11.2 TUNER AMP UNIT

● Circuit Diagram (DEH-625R/EW, 624R/EW, 525R/EW, 524R/EW)

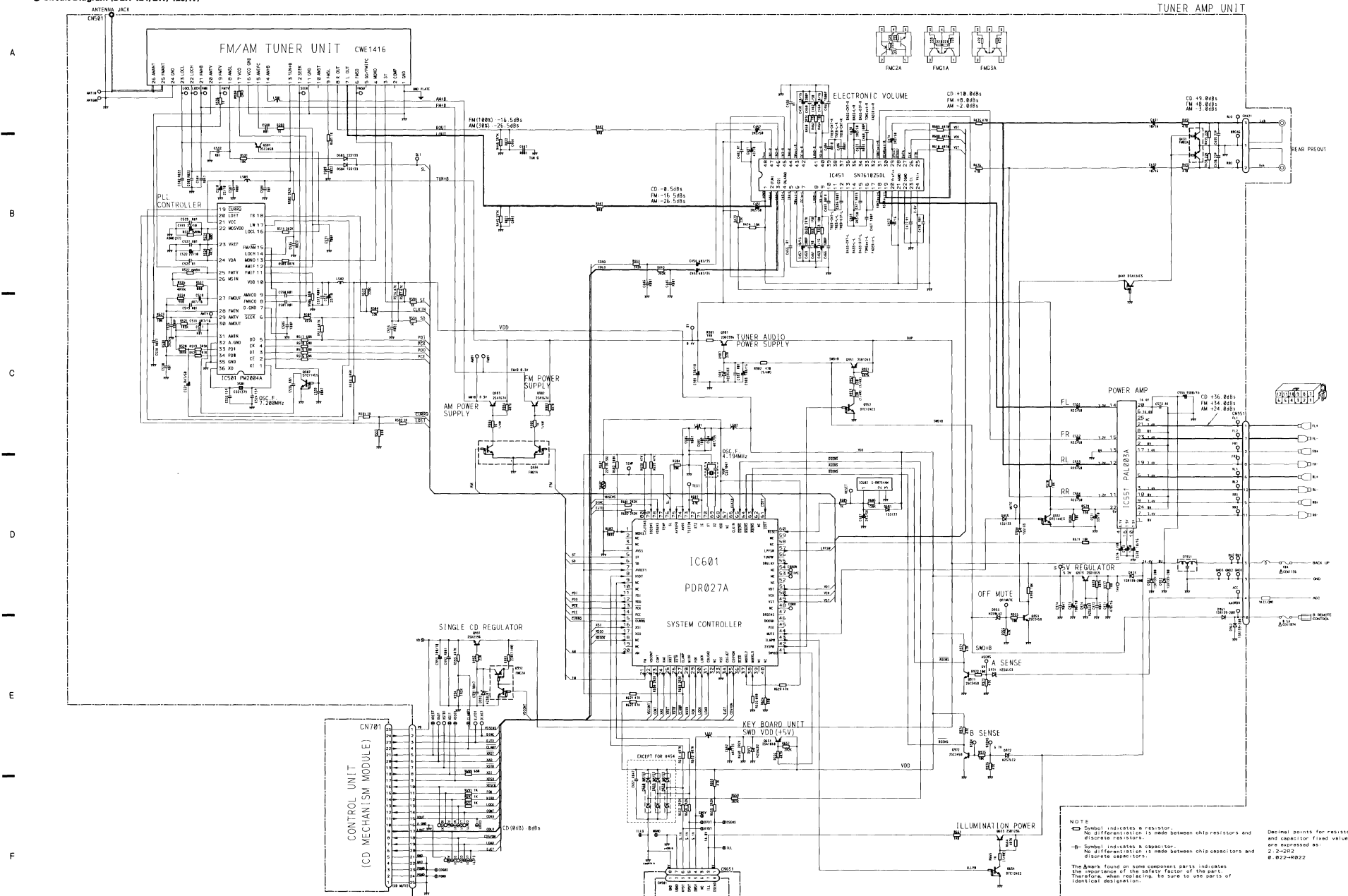


● Circuit Diagram



DEH-625R, 624R, 525R, 524R, 424R, 424, 425

● Circuit Diagram (DEH-424/EW, 425/IT)

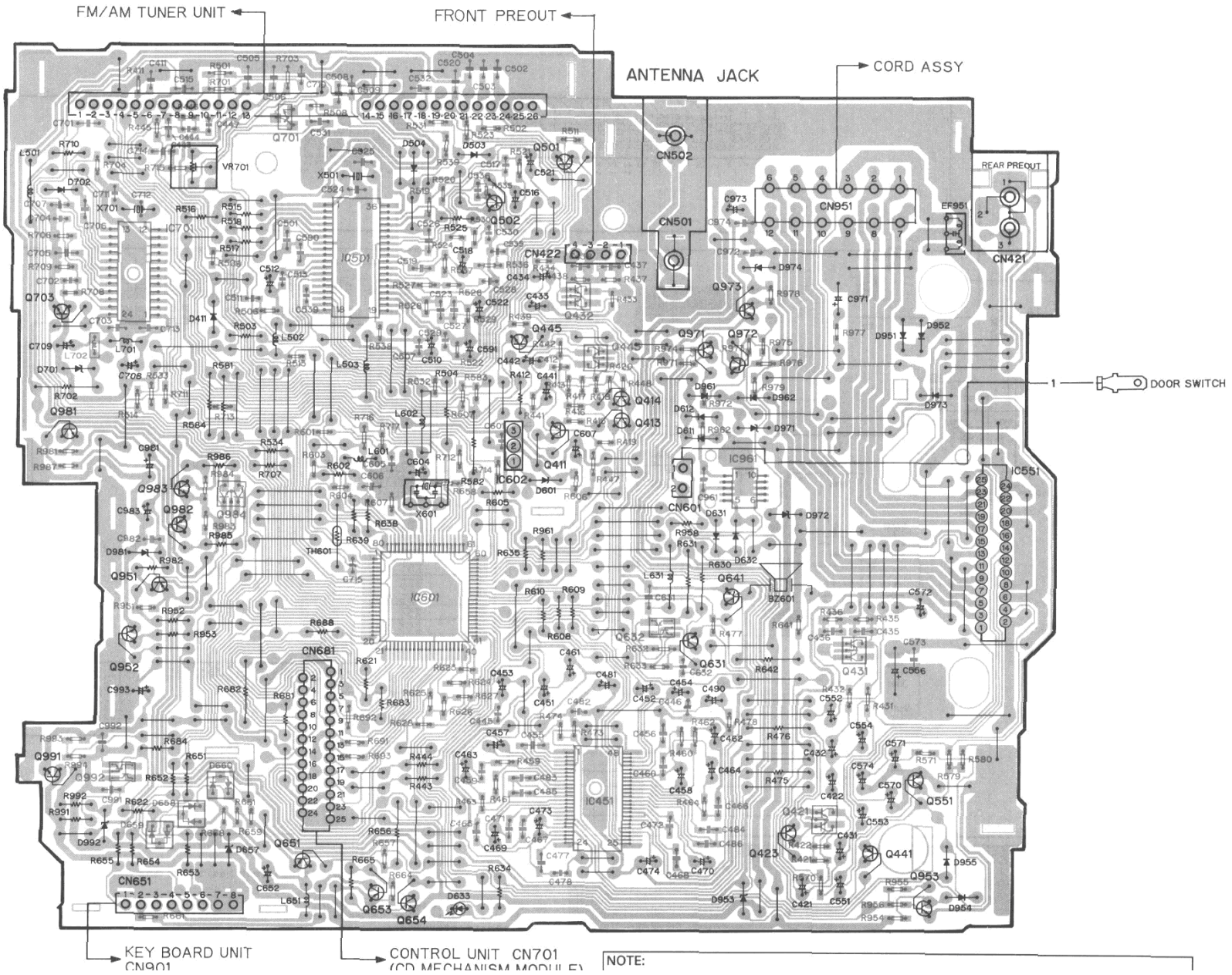


NOTE:
 □ Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 -C- Symbol indicates a capacitor.
 No differentiation is made between chip capacitors and discrete capacitors.
 The mark found on some component parts indicates the impedance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Decimal points for resistor and capacitor lead values are expressed as:
 2.2=2R2
 R.022=R022

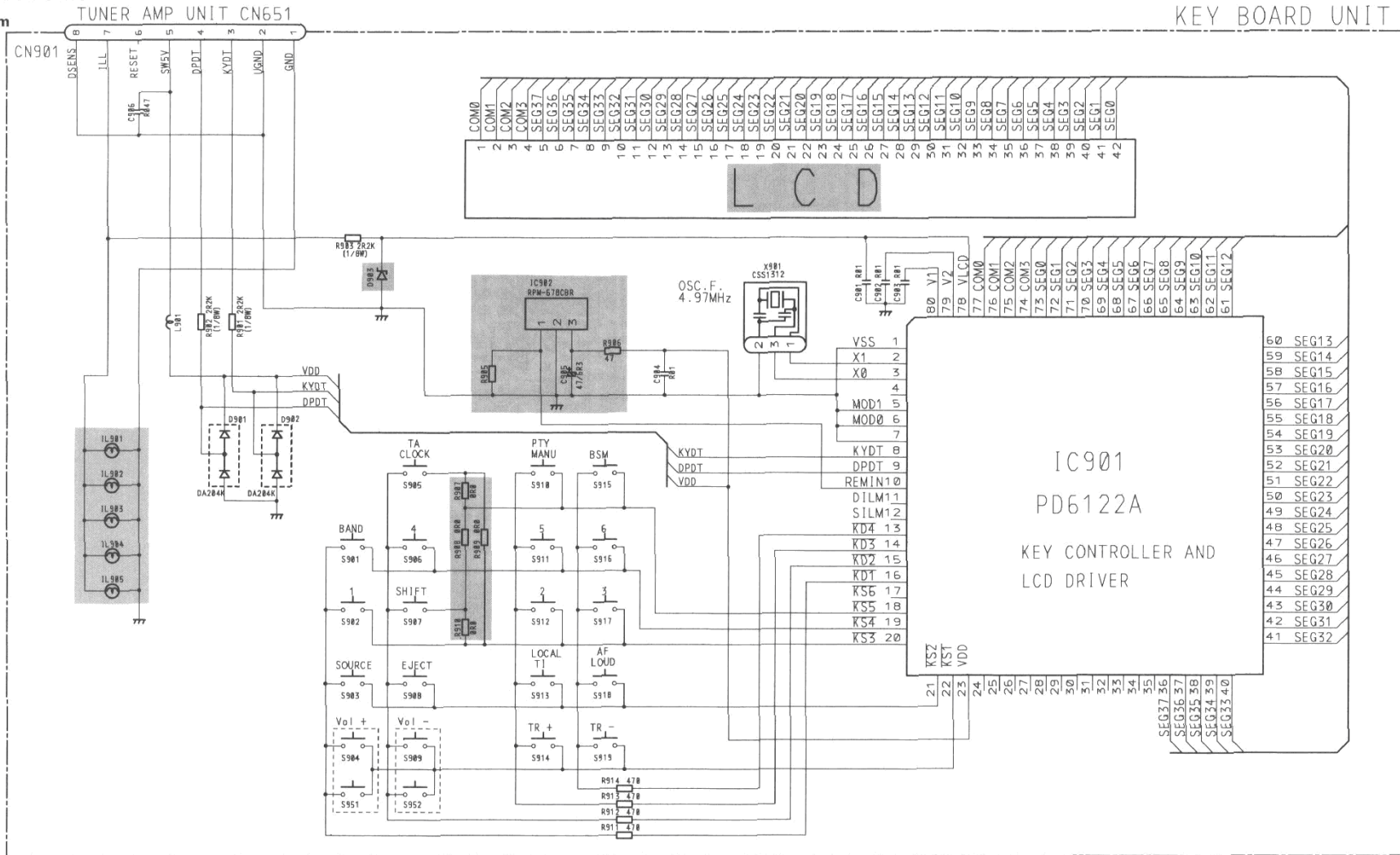
● Connection Diagram

- IC, Q ADJ
- Q701
- Q501 VR701
- Q502
- IC701 IC501
- Q432 Q973
- Q703 Q445
- Q443 Q971 Q972
- Q414
- Q411 Q413
- Q981 IC602
- Q983 IC961
- Q984
- Q982 IC551
- Q951
- IC601 Q641
- Q632
- Q952 Q631 Q431
- Q991 Q992 Q551
- IC451 Q421
- Q423
- Q651 Q441
- Q653
- Q654 Q953



11.3 KEY BOARD UNIT

● Circuit Diagram



	DEH-625R/EW	DEH-624R/EW	DEH-525R/EW	DEH-524R/EW	DEH-424R/GR	DEH-424/EW	DEH-425/IT
IC902	RPM-678CBR	RPM-678CBR	.....	.....	.....	.....	.....
D903	MA3051M	MA3051L	MA3051M	MA3051L	MA3051L	MA3051L	MA3056L
LCD	CAW1350	CAW1328	CAW1350	CAW1328	CAW1328	CAW1330	CAW1330
IL901-905	CEL1341	CEL1295	CEL1341	CEL1295	CEL1295	CEL1295	CEL1341
R905	.....	.....	.....	.....	.....	.....	.....
R906	47	47	.....	.....	.....	.....	.....
R907, 910	0R0	0R0	0R0	0R0	0R0	.....	.....

NOTE:

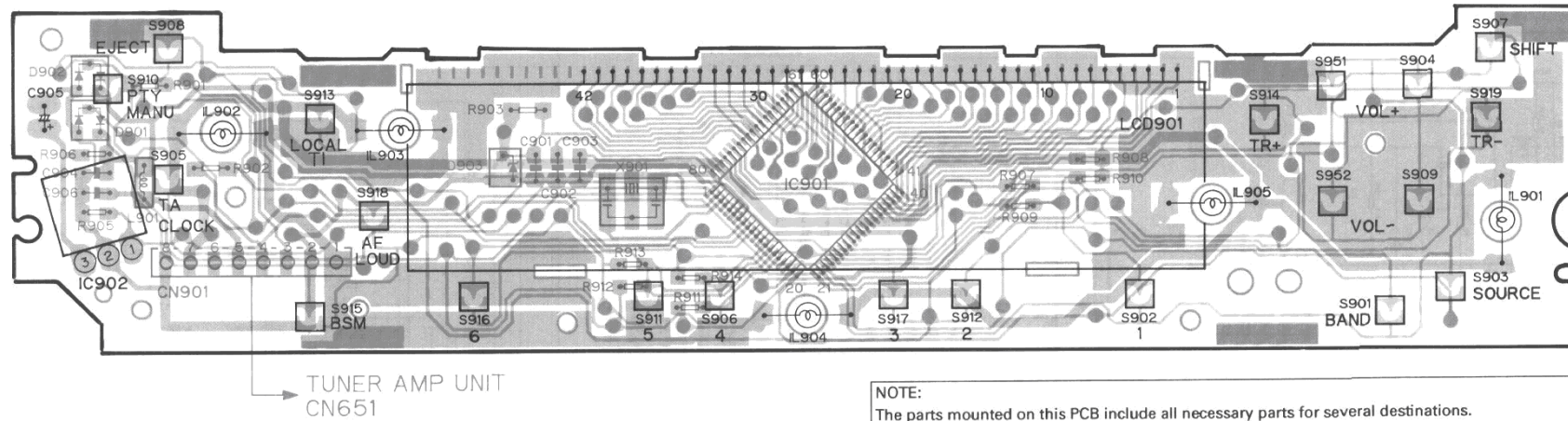
- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- ||— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

● Connection Diagram

IC IC902

IC901

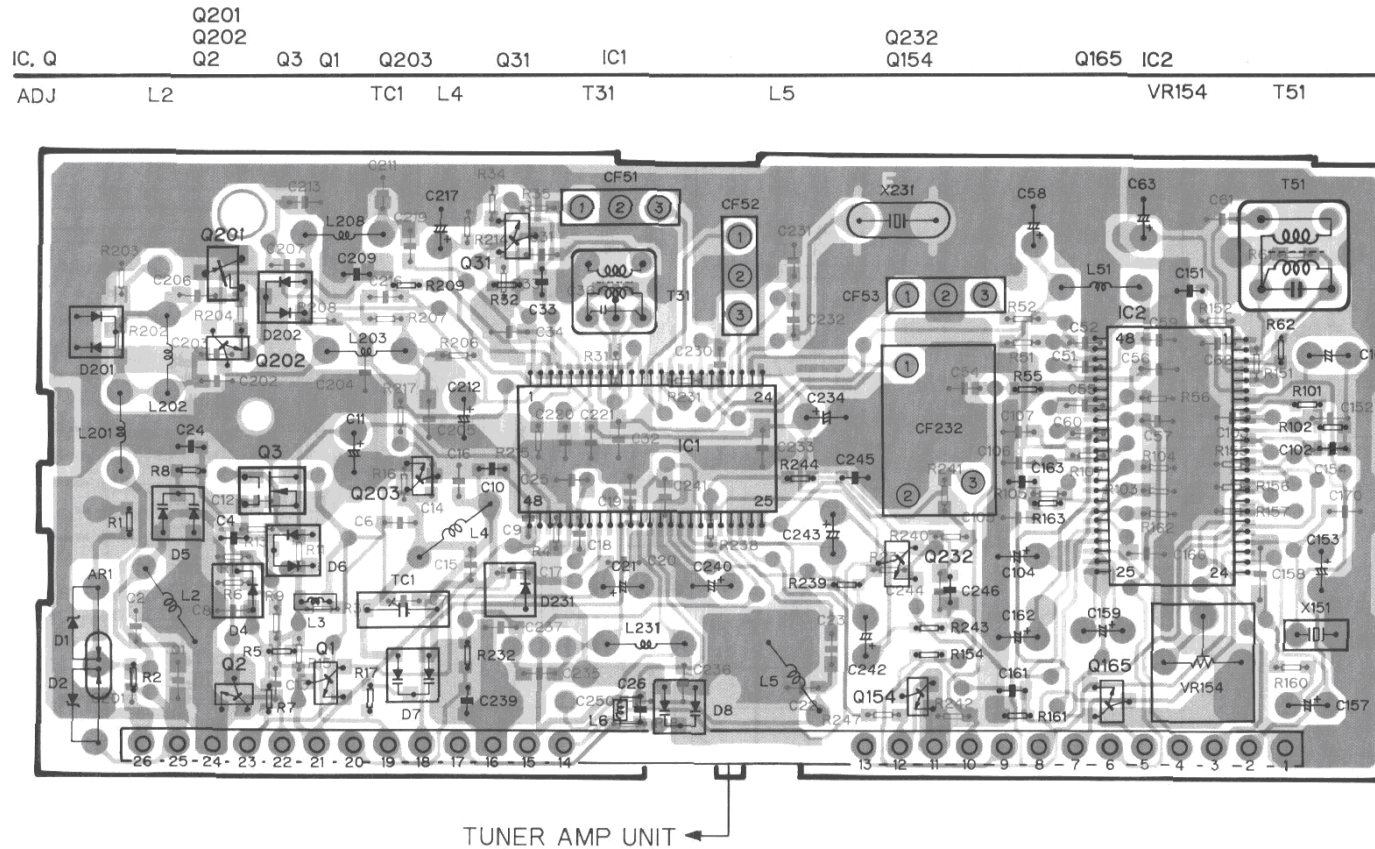


NOTE:
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

Fig. 14

DEH-625R,624R,525R,524R,424R,424,425

● **Connection Diagram**



NOTE:
 The parts mounted on this PCB include all necessary parts for several destinations.
 For further information for respective destinations, be sure to check with the schematic diagram.

Fig. 17

12. EXPLODED VIEW AND PARTS LIST

12.1 CHASSIS

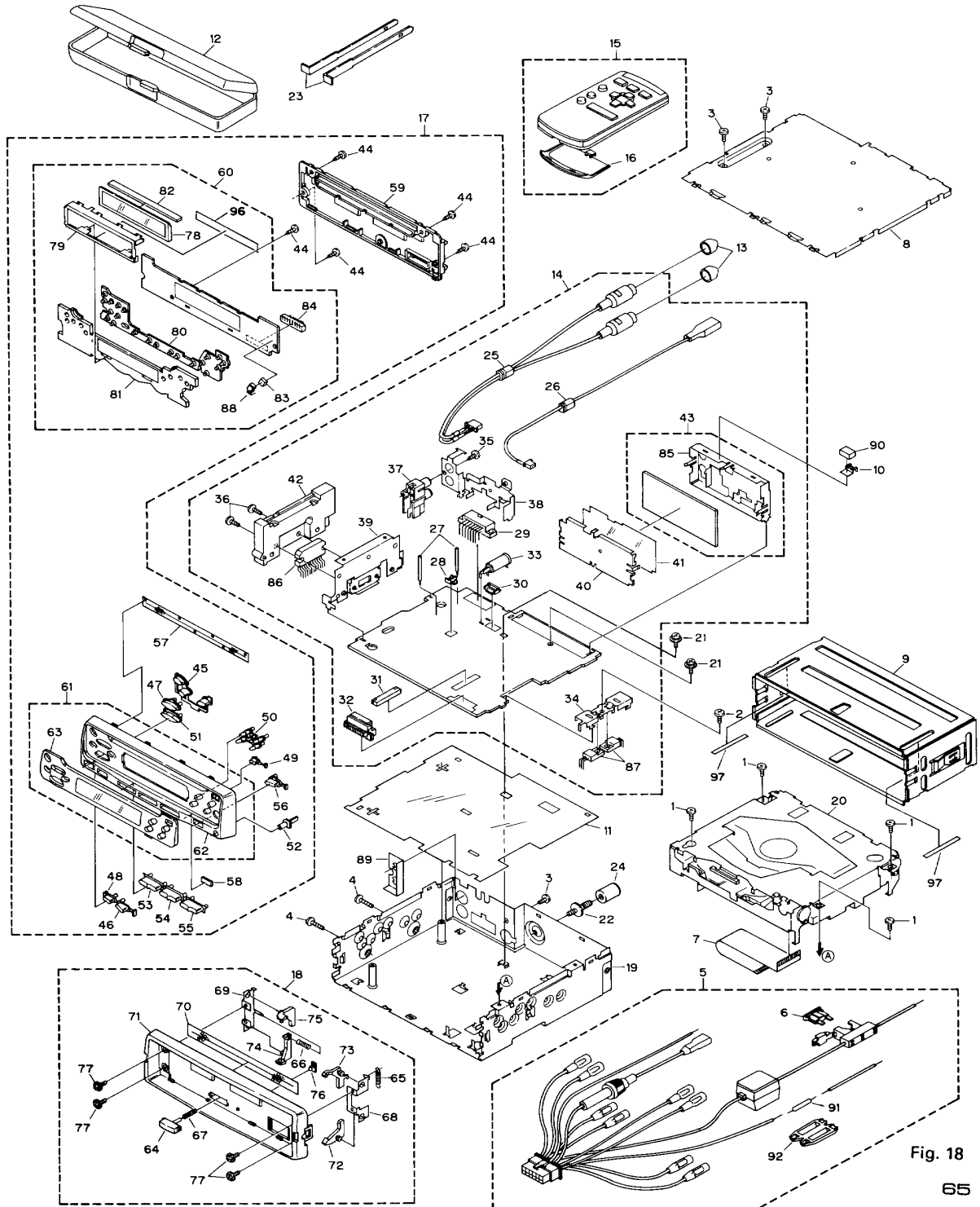


Fig. 18

DEH-625R,624R,525R,524R,424R,424,425

NOTE:

● Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.

● Parts List

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Screw	BSZ26P050FMC	41	Insulator	CNM4684	
	2	Screw	BSZ26P080FMC	42	Heat Sink	CNR1407	
	3	Screw	BSZ30P050FMC	43	FM/AM Tuner Unit	CWE1416	
	4	Screw	BSZ30P160FMC	44	Screw	BPZ20P100FZK	
	5	Cord	CDE4867	45	Button (S,SEEK)	CAC4469	
	6	Fuse	CEK1136	46	Button (BAND)	CAC4470	
	7	Cable	CDE4869	47	Button (+)	CAC4471	
	8	Case	CNB1989	48	Button (SOURCE)	CAC4472	
	9	Holder	CNC4946	49	Button (EJECT)	CAC4473	
	10	Holder	CNC6469	50	Button (*,-)	CAC4474	
	11	Insulator	CNM4522	51	Button (-)	CAC4542	
	12	Case	CNS3860	52	Button (DETACH)	CAC4547	
	13	Cap	CNV2680	53	Button (1 2)	CAC4578	
	14	Tuner Amp Unit	CWM4483	54	Button (3 4)	CAC4579	
	15	Remote Control Assy	CXA7390	55	Button (5 6)	CAC4580	
	16	Battery Cover	CNS3383	56	Button (BSM)	CAC4581	
	17	Detach Grille Assy	CXA8575	57	Cover	CNM4704	
	18	Panel Assy	CXA8578	58	Spacer	CNM4776	
	19	Chassis Unit	CXA8904	59	Cover	CNS3694	
	20	CD Mechanism Module	CXK5001	60	Key Board Unit	CWM4605	
	21	Screw	PSB30P060FMC	61	Grille Unit	CXA9109	
	22	Screw	CBA1284	62	Grille	CNS4040	
	23	Handle	CNC4947	63	Plate	CNS3989	
	24	Bush	CNV1009	64	Button	CAC3776	
	25	Cord	CDE4770	65	Spring	CBH1834	
	26	Cord	CDE4771	66	Spring	CBH1835	
	27	Clamper	CEF1005	67	Spring	CBH1858	
	28	Plug(CN601)(2P)	CKM1129	68	Bracket	CNC6135	
	29	Plug(CN951)(12P)	CKM1225	69	Bracket	CNC6136	
	30	Plug(CN422)(4P)	CKS1238	70	Cover	CNM4875	
	31	Connector(CN681)(25P)	CKS2228	71	Panel	CNS3744	
	32	Connector(CN651)(8P)	CKS2884	72	Arm	CNV4358	
	33	Antenna Jack(CN501)	CKX1006	73	Arm	CNV4359	
	34	Holder	CNC6132	74	Arm	CNV4437	
	35	Screw	BPZ26P080FMC	75	Arm	CNV4438	
	36	Screw	BSZ26P120FMC	76	Lens	CNV4479	
	37	Connector(CN421)	CKS3357	77	Screw	PMS20P030FZK	
	38	Bracket	CNC6130	78	LCD	CAW1350	
	39	Holder	CNC6131	79	Holder	CNC6134	
	40	Holder	CNC6356	80	Rubber	CNV4354	

DEH-625R,624R,525R,524R,424R,424,425

Mark No.	Description	Part No.	Mark No.	Description	Part No.
81	Lens	CNV4355	86	IC(IC551)	PAL003A
82	Connector	CNV4449	87	Transistor(Q981,991)	2SD2396
83	Spacer	CNM4740	88	IC(IC902)	RPM-678CBR
84	Connector(CN901)(8P)	CKS2883	89	Insulator	CNM4811
85	Holder	CNC6555	90	Cushion	CNM4870
			91	Resistor	RS1/2P102JL
			92	Cap	CNS1472
			93-95	*****	
			96	Spacer	CNM4871
			* 97	Spacer	CNM4888

● The DEH-624R/EW, DEH-525R/EW, DEH-524R/EW, DEH-424R/GR, DEH-424/EW, and DEH-425/IT Parts Lists enumerate the parts which differ from those enumerated in the DEH-625R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-625R/EW Parts List is given on page 65.

Mark No.	Description	625R/EW	624R/EW	525R/EW	524R/EW	424R/GR	424/EW	425/IT
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
13	Cap	CNV2680	CNV2680	*****	*****	*****	*****	*****
14	Tuner Amp Unit	CWM4483	CWM4483	CWM4484	CWM4484	CWM4492	CWM4493	CWM4493
15	Remote Control Assy	CXA7390	CXA8336	*****	*****	*****	*****	*****
16	Battery Cover	CNS3383	CNS3383	*****	*****	*****	*****	*****
17	Detach Grille Assy	CXA8575	CXA8214	CXA8576	CXA8249	CXA8257	CXA8258	CXA8577
18	Panel Assy	CXA8578	CXA8215	CXA8579	CXA8296	CXA8296	CXA8296	CXA8579
19	Chassis Unit	CXA8904	CXA8211	CXA8905	CXA8228	CXA8906	CXA8907	CXA8231
25	Cord	CDE4770	CDE4770	*****	*****	*****	*****	*****
26	Cord	CDE4771	CDE4771	*****	*****	*****	*****	*****
27	Clamper	CEF1005	CEF1005	*****	*****	*****	*****	*****
28	Plug(CN601)	CKM1129	CKM1129	*****	*****	*****	*****	*****
30	Plug(CN422)	CKS1238	CKS1238	*****	*****	*****	*****	*****
40	Holder	CNC6356	CNC6356	CNC6356	CNC6356	CNC6356	*****	*****
41	Insulator	CNM4684	CNM4684	CNM4684	CNM4684	CNM4684	*****	*****
43	FM/AM Tuner Unit	CWE1416	CWE1416	CWE1416	CWE1416	CWE1420	CWE1416	CWE1416
45	Button(S,SEEK)	CAC4469	CAC4622	CAC4469	CAC4622	CAC4622	CAC4622	CAC4469
46	Button(BAND)	CAC4470	CAC4621	CAC4470	CAC4621	CAC4621	CAC4621	CAC4470
47	Button(+)	CAC4471	CAC4584	CAC4471	CAC4584	CAC4584	CAC4584	CAC4471
48	Button(SOURCE)	CAC4472	CAC4734	CAC4472	CAC4734	CAC4734	CAC4734	CAC4472
50	Button(*,-)	CAC4474	CAC4623	CAC4474	CAC4623	CAC4623	CAC4623	CAC4474
51	Button(-)	CAC4542	CAC4585	CAC4542	CAC4585	CAC4585	CAC4585	CAC4542
52	Button(DETACH)	CAC4547	CAC4586	CAC4547	CAC4586	CAC4586	CAC4586	CAC4547
53	Button(1 2)	CAC4578	CAC4587	CAC4578	CAC4587	CAC4587	CAC4587	CAC4578
54	Button(3 4)	CAC4579	CAC4588	CAC4579	CAC4588	CAC4588	CAC4588	CAC4579
55	Button(5 6)	CAC4580	CAC4589	CAC4580	CAC4589	CAC4589	CAC4589	CAC4580
56	Button(BSM)	CAC4581	CAC4590	CAC4581	CAC4590	CAC4590	CAC4590	CAC4581
59	Cover	CNS3694	CNS3817	CNS3694	CNS3817	CNS3817	CNS3817	CNS3694
60	Key Board Unit	CWM4605	CWM4499	CWM4606	CWM4500	CWM4503	CWM4608	CWM4607
61	Grille Unit	CXA9109	CXA9108	CXA8281	CXA8581	CXA8289	CXA8290	CXA8582
62	Grille	CNS4040	CNS4041	CNS3813	CNS3812	CNS3812	CNS3812	CNS3813

DEH-625R,624R,525R,524R,424R,424,425

Mark No.	Description	625R/EW	624R/EW	525R/EW	524R/EW	424R/GR	424/EW	425/IT
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
63	Plate	CNS3989	CNS3814	CNS3696	CNS3815	CNS3698	CNS3739	CNS3816
71	Panel	CNS3744	CNS3818	CNS3744	CNS3818	CNS3818	CNS3818	CNS3744
76	Lens	CNV4479	CNV4479	*****	*****	*****	*****	*****
78	LCD	CAW1350	CAW1328	CAW1350	CAW1328	CAW1328	CAW1330	CAW1330
79	Holder	CNC6134	CNC6134	CNC6134	CNC6134	CNC6134	CNC6430	CNC6430
83	Spacer	CNM4740	CNM4740	*****	*****	*****	*****	*****
88	IC(IC902)	RPM-678CBR	RPM-678CBR	*****	*****	*****	*****	*****

12.2 CD MECHANISM MODULE

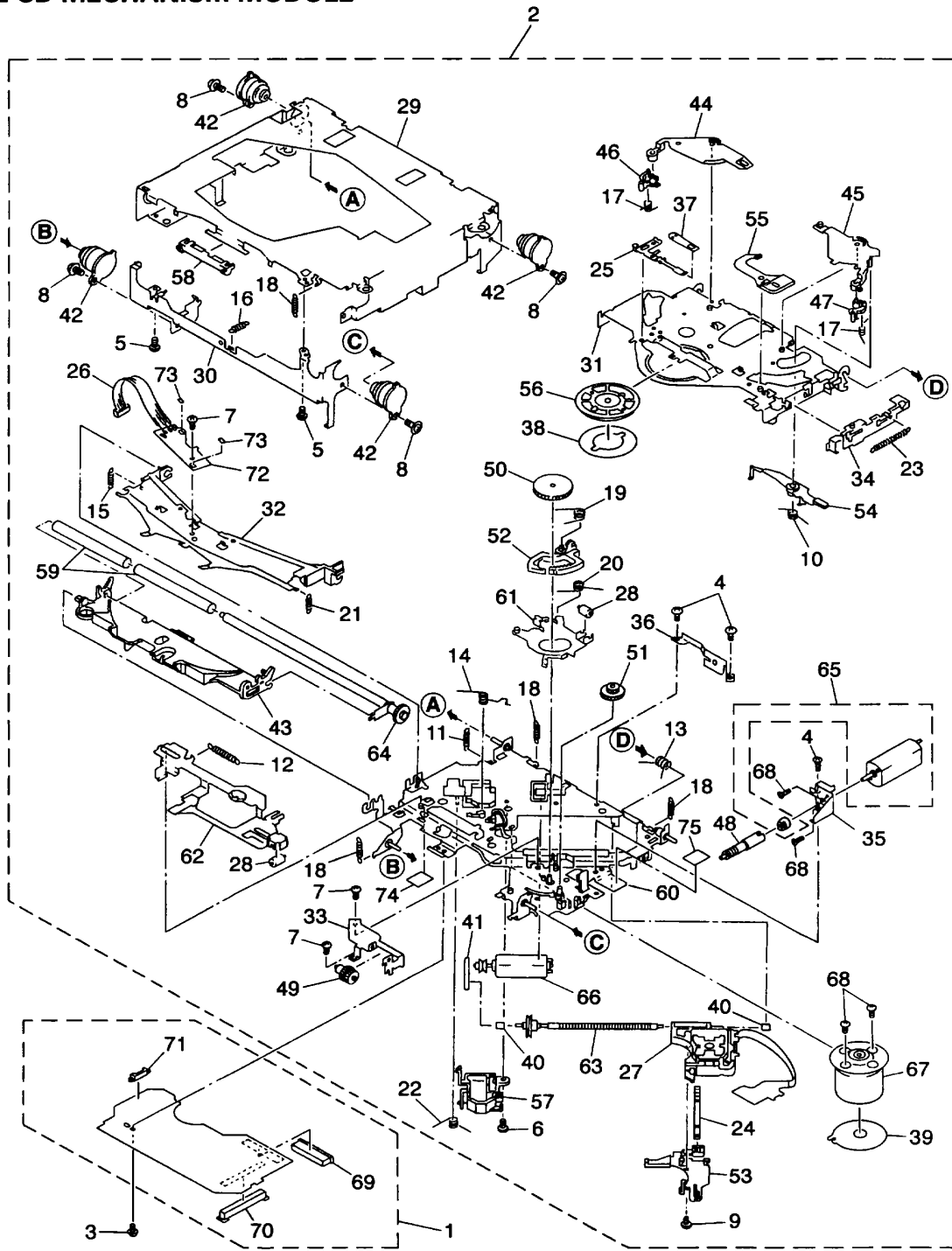


Fig. 19

DEH-625R,624R,525R,524R,424R,424,425

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Control Unit	CWX1889	46	Arm	CNV4124
2	CD Mechanism Unit	CXA8870	47	Arm	CNV4125
3	Screw	PMS26P035FMC	48	Gear	CNV4128
4	Screw	BMZ20P030FMC	49	Gear	CNV4129
5	Screw	BSZ20P040FMC	50	Gear	CNV4130
6	Screw(M2X3)	CBA1077	51	Gear	CNV4131
7	Screw(M2X2)	CBA1250	52	Arm	CNV4136
8	Screw(M2X5)	CBA1296	53	Holder	CNV4663
9	Screw(M2X3.85)	CBA1362	54	Arm	CNV4138
10	Spring	CBH1916	55	Arm	CNV4139
11	Spring	CBH1724	56	Clamper	CNV4140
12	Spring	CBH1727	57	Holder	CNV4664
13	Spring	CBH1729	58	Guide	CNV4484
14	Spring	CBH1730	59	Roller	CNV4509
15	Spring	CBH1731	60	Chassis Unit	CXA8561
16	Spring	CBH1732	61	Arm Unit	CXA8565
17	Spring	CBH1736	62	Lever Unit	CXA8567
18	Spring	CBH1745	63	Screw Unit	CXA8699
19	Spring	CBH1832	64	Gear Unit	CXA8701
20	Spring	CBH1833	65	Load Motor Unit(M3)	CXA8702
21	Spring	CBH1848	66	CRG Motor Unit(M2)	CXA8986
22	Spring	CBH1849	67	Motor Unit(M1)	CXA9100
23	Spring	CBH1863	68	Screw	JFZ20P025FMC
24	Spring	CBL1214	69	Connector(CN101)	CKS1953
25	Spring	CBL1269	70	Connector(CN701)	CKS2774
26	Connector(CN1)	CDE4576	71	Connector(CN801)	CKS2196
27	PU Unit	CGY1070	* 72	Gathering P.C.Board	CNX2445
28	Roller	CLA2627	73	Photo-transistor(Q1, 2)	CPT-230S-X
29	Frame	CNC5796	74	Sheet	CNM4873
30	Frame	CNC5797	75	Cushion	CNM3917
31	Arm	CNC5799			
* 32	Arm	CNC5801			
33	Bracket	CNC5871			
34	Lever	CNC6054			
35	Bracket	CNC6056			
* 36	Bracket	CNC6376			
37	Spacer	CNM3315			
38	Sheet	CNM4849			
39	P.C.Board	CNP4230			
40	Bearing	CNR1415			
41	Belt	CNT1071			
42	Damper	CNV3974			
43	Arm	CNV4120			
44	Arm	CNV4122			
45	Arm	CNV4123			

13. PACKING METHOD

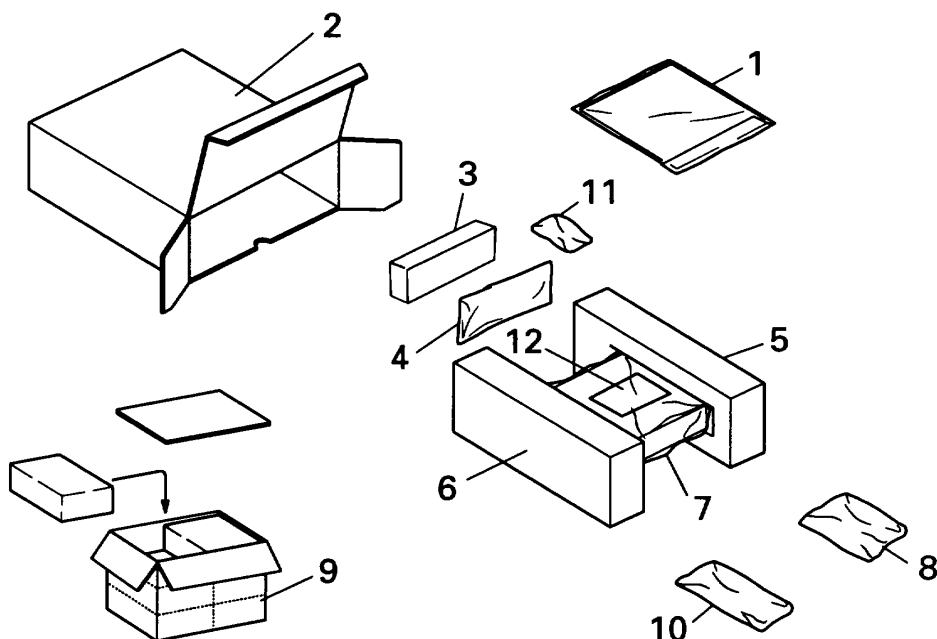


Fig. 20

● Parts List(DEH-625R/EW)

Mark No.	Description	Part No.
1-1	Owner's Manual	CRD1940
1-2	Owner's Manual	CRD1941
1-3	Owner's Manual	CRD1998
1-4	Installation Manual	CRD1956
* 1-5	Warranty Card	CRY1087
* 1-6	Passport	CRY1013
* 1-7	Label	CRW1343
1-8	Polyethylene Bag	CEG1116
2	Carton	CHG2842
3	Case	CNS3860

* : Non Spare Part

Mark No.	Description	Part No.
4	Cord	CDE4867
5	Protector	CHP1769
6	Protector	CHP1768
7	Polyethylene Bag	CEG-162
8	Accessory Assy	CEA1917
9	Contain Box	CHL2842
10	Accessory Assy	CEA1473
11	Remote Control Assy	CXA7390
* 12	Caution Card	CRP1145

● Owner's Manual

Model	Part No.	Language
DEH-625R/EW	CRD1940	English, Spanish
DEH-624R/EW	CRD1941	French, German
	CRD1998	Italian, Dutch
DEH-525R/EW	CRD1942	English, Spanish
DEH-524R/EW	CRD1943	Italian, Dutch
DEH-525R/EW, DEH-524R/EW, DEH-424R/GR	CRD1959	French, German
DEH-424/EW	CRD1944	English, French, German, Spanish
DEH-424/EW, DEH-425/IT	CRD1958	Italian, Dutch

● Installation Manual

Model	Part No.	Language
DEH-625R/EW, DEH-624R/EW	CRD1956	English, Spanish, French, German
DEH-525R/EW, DEH-524R/EW, DEH-424R/GR, DEH-424/EW, DEH-425/IT	CRD1957	Italian, Dutch

DEH-625R, 624R, 525R, 524R, 424R, 424, 425

● The DEH-624R/EW, DEH-525R/EW, DEH-524R/EW, DEH-424R/GR, DEH-424/EW, and DEH-425/IT Parts Lists enumerate the parts which differ from those enumerated in the DEH-625R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-625R/EW Parts List is given on page 71.

Mark No.	Description	625R/EW	624R/EW	525R/EW	524R/EW	424R/GR	424/EW	425/IT
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1-1	Owner's Manual	CRD1940	CRD1940	CRD1942	CRD1942	CRD1959	CRD1944	*****
1-2	Owner's Manual	CRD1941	CRD1941	CRD1943	CRD1943	*****	*****	*****
1-3	Owner's Manual	CRD1998	CRD1998	CRD1959	CRD1959	*****	CRD1958	CRD1958
* 1-4	Installation Manual	CRD1956	CRD1956	CRD1957	CRD1957	CRD1957	CRD1957	CRD1957
* 1-6	Passport	CRY1013	CRY1013	CRY1013	CRY1013	CRY1013	CRY1013	*****
* 1-7	Label	CRW1343	CRW1343	*****	*****	*****	*****	*****
2	Carton	CHG2842	CHG2841	CHG2844	CHG2843	CHG2850	CHG2849	CHG2851
9	Contain Box	CHL2842	CHL2841	CHL2844	CHL2843	CHL2850	CHL2849	CHL2851
10	Accessory Assy	CEA1473	CEA1473	*****	*****	*****	*****	*****
11	Remote Control Assy	CXA7390	CXA8336	*****	*****	*****	*****	*****

● **Accessory Assy**

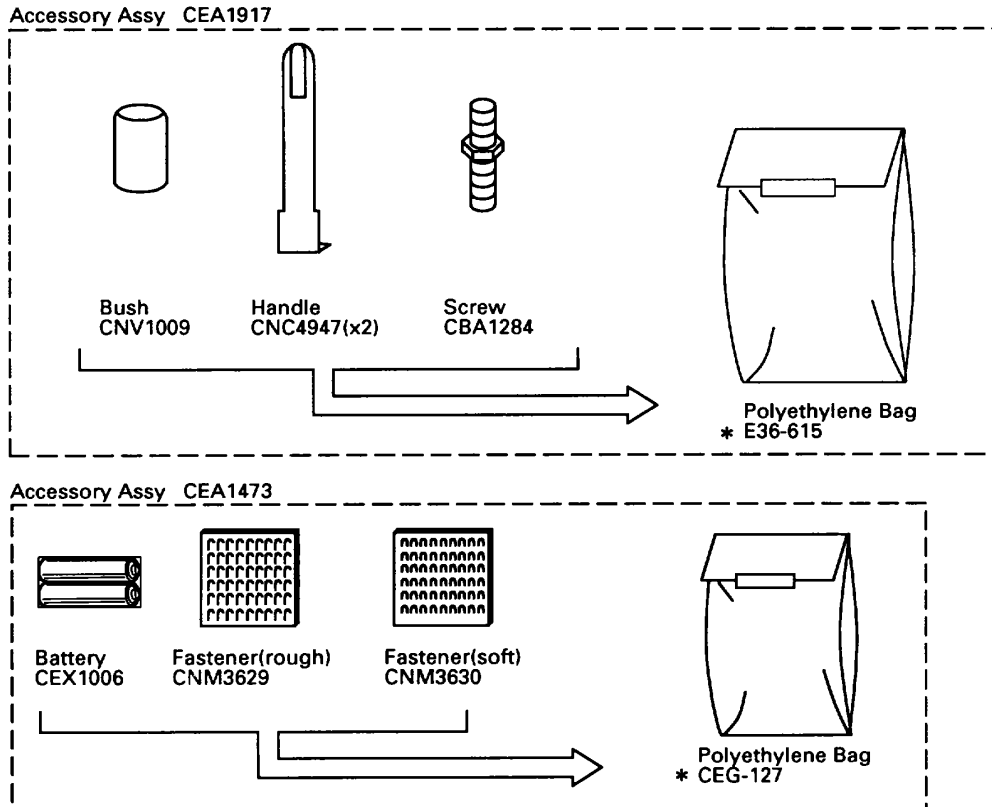


Fig. 21