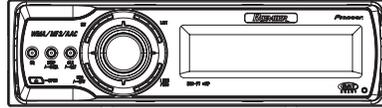


Service Manual



DEH-P780MP/XN/UC

ORDER NO.
CRT3649

**MULTI-CD CONTROL DSP HIGH POWER CD/MP3/WMA/AAC
PLAYER WITH FM/AM TUNER**

DEH-P780MP /XN/UC

DEH-P7800MP /XN/UC

DEH-P8850MP /XN/ES

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

Model No.	Order No.	Mech.Module	Remarks
CX-3164	CRT3583	S10.5COMP1	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



For details, refer to "Important Check Points for Good Servicing".

SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

● **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.**

● **Service Precaution**



1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
4. After replacing the pickup unit, be sure to check the grating.
5. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.



[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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DEH-P780MP/XN/UC

1. SPECIFICATIONS

● DEH-P780MP/XN/UC

General

Power source	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Backup current	6.5 mA or less
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 161 mm (7 × 2 × 6-3/8 in.)
Nose	188 × 58 × 23 mm (7-3/8 × 2-1/4 × 7/8 in.)
D	
Chassis	178 × 50 × 166 mm (7 × 2 × 6-1/2 in.)
Nose	170 × 45 × 18 mm (6-3/4 × 1-3/4 × 3/4 in.)
Weight	1.7 kg (3.7 lbs)

Audio/DSP

Maximum power output	50 W × 4
Continuous power output ...	22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance	4 Ω (4 Ω to 8 Ω allowable)
Preout max output level/output impedance	5 V/100 Ω
Loudness contour	+10 dB (100 Hz), +6.5 dB (10 kHz) (volume: -30 dB)
Equalizer (16-Band Graphic Equalizer):	
Frequency	20/31.5/50/80/125/200/315/500/800/1.25k/2k/3.15k/5k/8k/12.5k/20k Hz
Equalization range	±12 dB
HPF (Front/rear):	
Frequency	50/63/80/100/125/160/200 Hz
Slope	0 (Pass)/-6/-12 dB/oct
Gain	0 dB to -24 dB/Mute
Subwoofer:	
Frequency	50/63/80/100/125/160/200 Hz
Slope	-6/-12/-18 dB/oct
Gain	+6 dB to -24 dB/Mute
Phase	Normal/Reverse

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 Hz to 20 000 Hz (±1 dB)
Signal-to-noise ratio	100 dB (1 kHz) (IHF-A network)
Dynamic range	95 dB (1 kHz)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes® encoded only)
WAV signal format	Linear PCM & MS ADPCM

FM tuner

Frequency range	87.9 MHz to 107.9 MHz
Usable sensitivity	8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response	30 Hz to 15 000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)
Selectivity	80 dB (±200 kHz)
Three-signal intermodulation (desired signal level)	30 dBf (two undesired signal level: 100 dBf)

AM tuner

Frequency range	530 kHz to 1 710 kHz (10 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IHF-A network)

Note

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

● DEH-P7800MP/XN/UC

General

Power source 14.4 V DC (10.8 V to 15.1 V allowable)

Grounding system Negative type

Max. current consumption 10.0 A

Backup current 6.5 mA or less

Dimensions (W × H × D):

DIN

Chassis 178 × 50 × 161 mm
(7 × 2 × 6-3/8 in.)

Nose 188 × 58 × 23 mm
(7-3/8 × 2-1/4 × 7/8 in.)

D

Chassis 178 × 50 × 166 mm
(7 × 2 × 6-1/2 in.)

Nose 170 × 45 × 18 mm
(6-3/4 × 1-3/4 × 3/4 in.)

Weight 1.7 kg (3.7 lbs)

Audio/DSP

Maximum power output 50 W × 4

Continuous power output ... 22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)

Load impedance 4 Ω (4 Ω to 8 Ω allowable)

Preout max output level/output impedance 5 V/100Ω

Loudness contour +10 dB (100 Hz), +6.5 dB (10 kHz) (volume: -30 dB)

Equalizer (16-Band Graphic Equalizer):

Frequency 20/31.5/50/80/125/200/315/500/800/1.25k/2k/3.15k/5k/8k/12.5k/20k Hz

Equalization range ±12 dB

HPF (Front/rear):

Frequency 50/63/80/100/125/160/200 Hz

Slope 0 (Pass)/-6/-12 dB/oct

Gain 0 dB to -24 dB/Mute

Subwoofer:

Frequency 50/63/80/100/125/160/200 Hz

Slope -6/-12/-18 dB/oct

Gain +6 dB to -24 dB/Mute

Phase Normal/Reverse

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 Hz to 20 000 Hz (±1 dB)

Signal-to-noise ratio 100 dB (1 kHz) (IHF-A network)

Dynamic range 95 dB (1 kHz)

Number of channels 2 (stereo)

MP3 decoding format MPEG-1 & 2 Audio Layer 3

WMA decoding format Ver. 7, 7.1, 8, 9, 10 (2ch audio)

(Windows Media Player)

AAC decoding format MPEG-4 AAC (iTunes® encoded only)

WAV signal format Linear PCM & MS ADPCM

FM tuner

Frequency range 87.9 MHz to 107.9 MHz

Usable sensitivity 8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)

50 dB quieting sensitivity 10 dBf (0.9 μV/75 Ω, mono)

Signal-to-noise ratio 75 dB (IHF-A network)

Distortion 0.3 % (at 65 dBf, 1 kHz, stereo)

0.1 % (at 65 dBf, 1 kHz, mono)

Frequency response 30 Hz to 15 000 Hz (±3 dB)

Stereo separation 45 dB (at 65 dBf, 1 kHz)

Selectivity 80 dB (±200 kHz)

Three-signal intermodulation (desired signal level)

..... 30 dBf (two undesired signal level: 100 dBf)

AM tuner

Frequency range 530 kHz to 1 710 kHz (10 kHz)

Usable sensitivity 18 μV (S/N: 20 dB)

Signal-to-noise ratio 65 dB (IHF-A network)



Note

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

● DEH-P8850MP/XN/ES

General

Rated power source	14.4 V DC (allowable voltage range: 12.0 V to 14.4 V DC)
Grounding system	Negative type
Max. current consumption	10.0 A
Backup current	6.5 mA or less
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 161 mm
Nose	188 × 58 × 23 mm
D	
Chassis	178 × 50 × 166 mm
Nose	170 × 45 × 18 mm
Weight	1.7 kg

Audio/DSP

Maximum power output	50 W × 4
Continuous power output ...	22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance	4 Ω (4 Ω to 8 Ω allowable)
Preout max output level/output impedance	5 V/100Ω
Loudness contour	+10 dB (100 Hz), +6.5 dB (10 kHz) (volume: -30 dB)
Equalizer (16-Band Graphic Equalizer):	
Frequency	20/31.5/50/80/125/200/315/ 500/800/1.25k/2k/3.15k/5k/ 8k/12.5k/20k Hz
Equalization range	±12 dB
Auto equalizer:	
(Front & rear & subwoofer 16 band graphic)	
Frequency	20/31.5/50/80/125/200/315/ 500/800/1.25k/2k/3.15k/5k/ 8k/12.5k/20k Hz
Equalization range	+6 dB to -12 dB
HPF (Front/rear):	
Frequency	50/63/80/100/125/160/200 Hz
Slope	0 (Pass)/-6/-12 dB/oct
Gain	0 dB to -24 dB/Mute
Subwoofer:	
Frequency	50/63/80/100/125/160/200 Hz
Slope	-6/-12/-18 dB/oct
Gain	+6 dB to -24 dB/Mute
Phase	Normal/Reverse

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 Hz to 20 000 Hz (±1 dB)
Signal-to-noise ratio	100 dB (1 kHz) (IEC-A net- work)
Dynamic range	95 dB (1 kHz)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes® en- coded only)
WAV signal format	Linear PCM & MS ADPCM

FM tuner

Frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio	75 dB (IEC-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response	30 Hz to 15 000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range	531 kHz to 1 602 kHz (9 kHz)
	530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IEC-A network)

Infrared remote control

Wavelength	940 nm ±50 nm
Output	typ; 12 mw/sr per Infrared LED

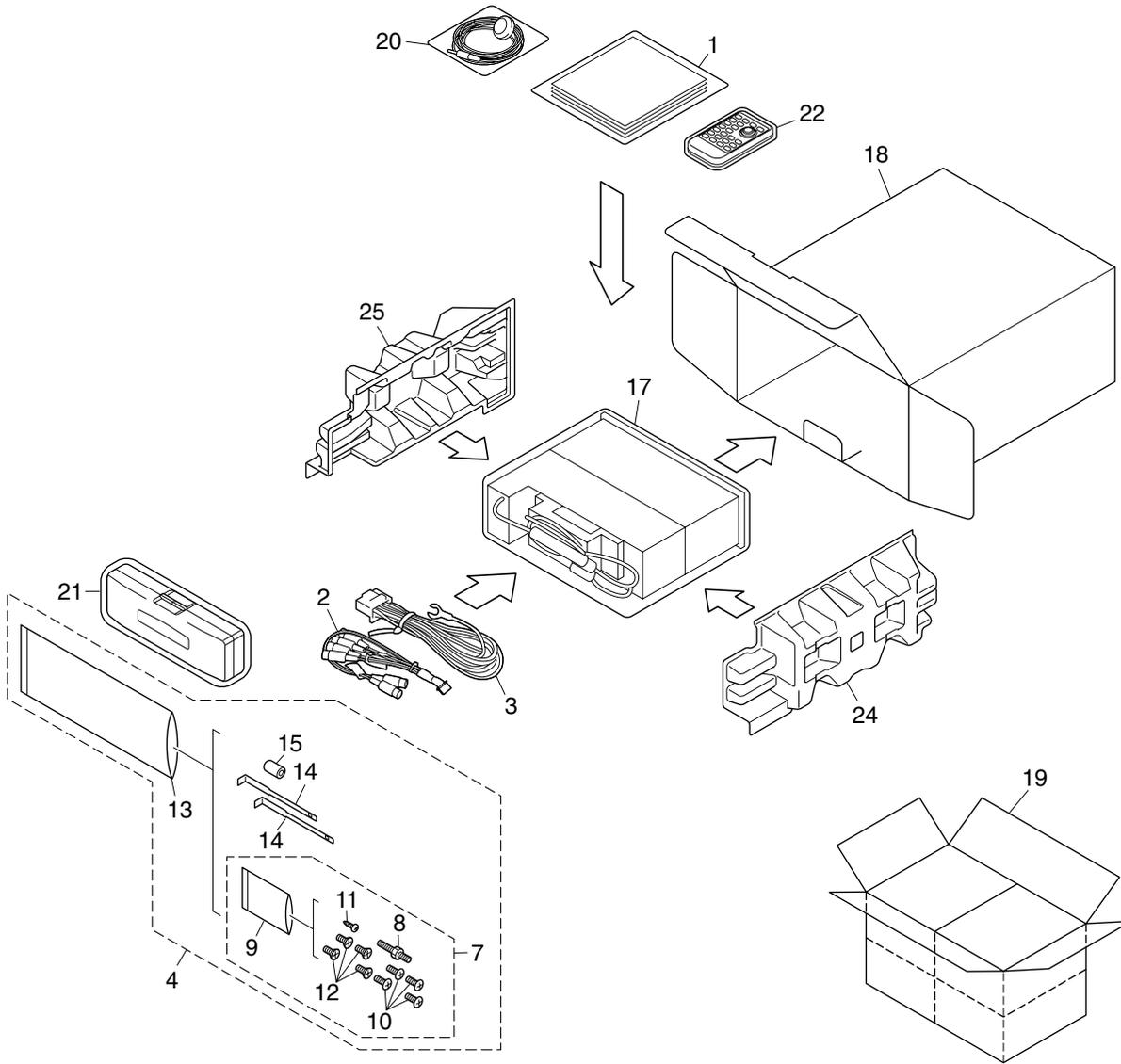
Note

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

2. EXPLODED VIEWS AND PARTS LIST

NOTES : • Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.
• The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
• Screw adjacent to ∇ mark on the product are used for disassembly.
• For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING



(1) PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
* 1-1	Card	See Contrast table(2)	10	Screw	CRZ50P090FTC
1-2	Polyethylene Bag	CEG1116	11	Screw	See Contrast table(2)
1-3	Owner's Manual	See Contrast table(2)	12	Screw	TRZ50P080FTC
1-4	Owner's Manual	See Contrast table(2)			
1-5	Owner's Manual	See Contrast table(2)	* 13	Polyethylene Bag	CEG-158
			14	Handle	CNC5395
1-6	Installation Manual	See Contrast table(2)	15	Bush	CNV3930
* 1-7	Waranty Card	See Contrast table(2)	16	*****	
* 1-8	Caution Card	CRP1310	17	Polyethylene Bag	See Contrast table(2)
* 1-9	Caution Card	XRP7002			
2	Cord Assy	CDE8284	18	Carton	See Contrast table(2)
			19	Contain Box	See Contrast table(2)
3	Cord Assy	CDE7701	20	Microphone Assy	See Contrast table(2)
4	Accessory Assy	See Contrast table(2)	21	Case Assy	XXA7417
5	*****		22	Remote Control Unit	CXC5717
6	*****				
7	Screw Assy	See Contrast table(2)	23	*****	
			24	Protector	XHP7008
8	Screw	CBA1650	25	Protector	XHP7007
* 9	Polyethylene Bag	CEG-127			

(2) CONTRAST TABLE

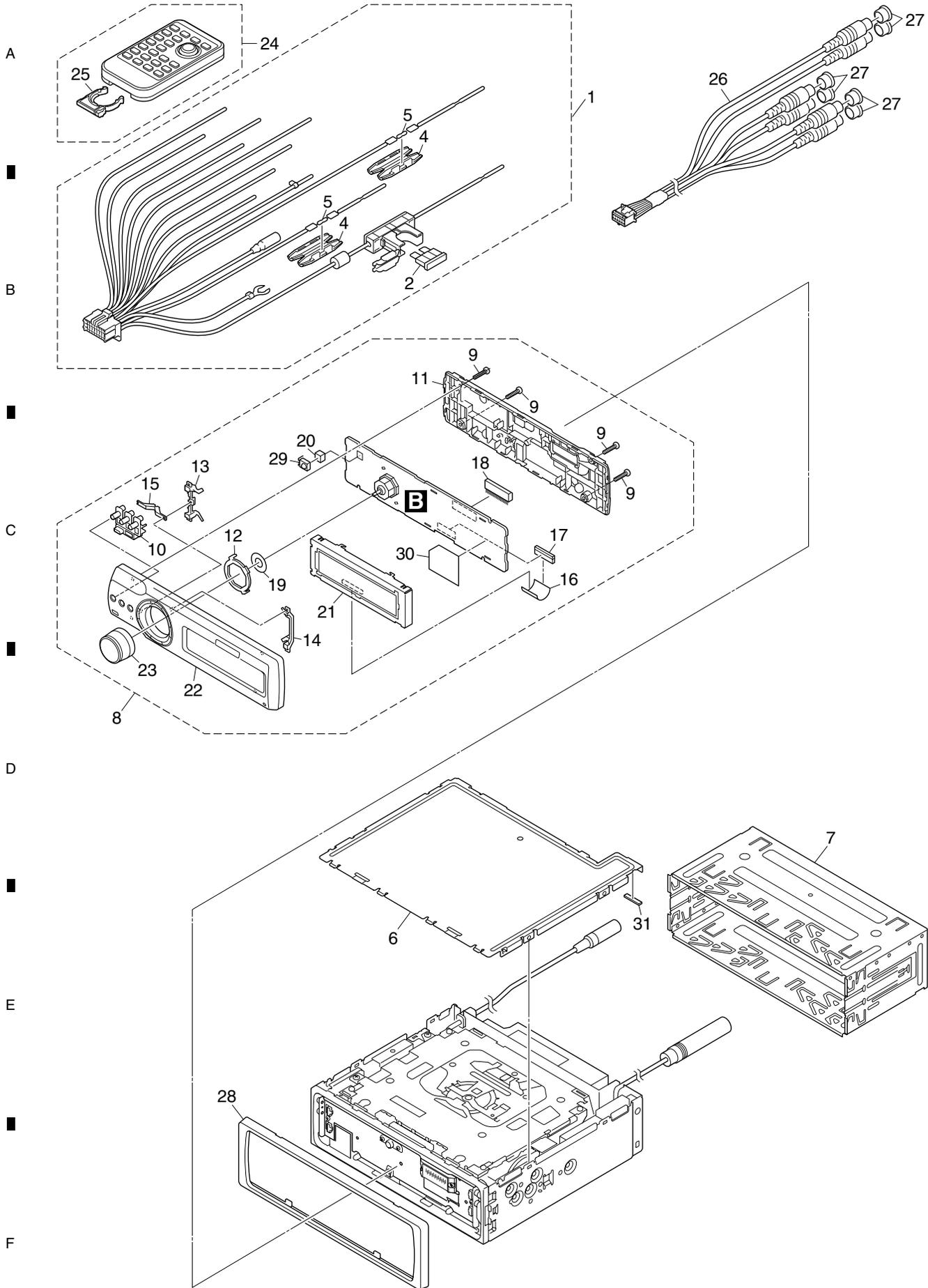
DEH-P780MP/XN/UC, DEH-P7800MP/XN/UC and DEH-P8850MP/XN/ES are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>DEH-P780MP/XN/UC</u>	<u>DEH-P7800MP/XN/UC</u>	<u>DEH-P8850MP/XN/ES</u>
*	1-1	Card	Not used	ARY1048	Not used
	1-3	Owner's Manual	CRD4085	CRD4087	CRB2247
	1-4	Owner's Manual	Not used	Not used	CRD4089
	1-5	Owner's Manual	Not used	Not used	CRD4090
	1-6	Installation Manual	CRD4086	CRD4088	CRD4091
*	1-7	Waranty Card	CRY1070	CRY1246	Not used
	4	Accessory Assy	CEA6351	CEA6351	CEA6400
	7	Screw Assy	CEA5322	CEA5322	CEA3849
	11	Screw	JPZ20P060FTB	JPZ20P060FTB	Not used
	17	Polyethylene Bag	CEG1173	CEG1173	CEG-162
	18	Carton	CHG5753	CHG5752	CHG5748
	19	Contain Box	CHL5753	CHL5752	CHL5748
	20	Microphone Assy	Not used	Not used	CPM1054

Owner's Manual, Installation Manual

<u>Part No.</u>	<u>Language</u>
CRD4085	English, French
CRD4086	English, French
CRD4087	English, French
CRD4088	English, French
CRB2247	Traditional Chinese
CRD4089	English, Spanish
CRD4090	Portuguese(B), Arabic
CRD4091	English, Spanish, Portuguese(B), Arabic, Traditional Chinese

2.2 EXTERIOR(1)



(1) EXTERIOR(1) SECTION PARTS LIST

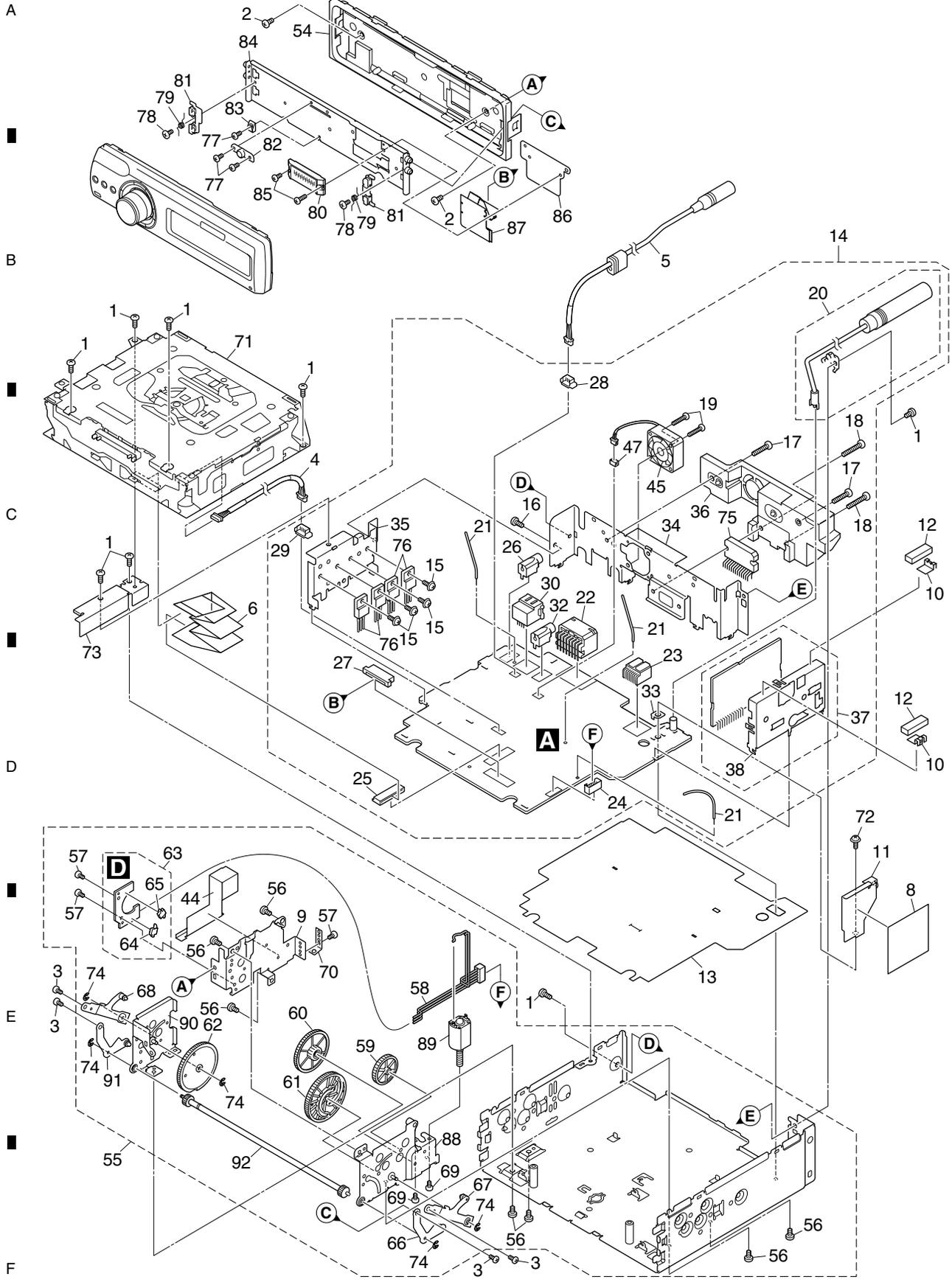
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Cord Assy	CDE7701	17	Connector(CN1931)	CKS5090
△ 2	Fuse(10 A)	CEK1136	18	Connector(CN1701)	CKS5662
3	*****		19	Sheet	CNM8658
4	Cap	CNS1472	20	Cushion	CNM9946
5	Resistor	RS1/2PMF102J	21	OEL Module	MXK8230
6	Case Assy	CXC6907	22	Grille Unit	See Contrast table(2)
7	Holder	CNC8659	23	Knob Unit(MULTI-CONTROL)	CXC5674
8	Detach Grille Assy	See Contrast table(2)	24	Remote Control Unit	CXC5717
9	Screw	BPZ20P080FTB	25	Cover	CZN5357
10	Button (EQ, DISP, CLOCK)	CAC9527	26	Cord Assy	CDE8284
11	Cover	CNS8491	27	Cap	CNV6727
12	Holder	CNV8834	28	Panel	XNS7145
13	Lighting Conductor	CNV9010	29	IC (IC1801)	GP1UX51RK
14	Lighting Conductor	CNV9011	30	Insulator	CNN1327
15	Lighting Conductor	CNV9013	31	Cushion	CNN1405
16	Cable	CDE8057			

(2) CONTRAST TABLE

DEH-P780MP/XN/UC, DEH-P7800MP/XN/UC and DEH-P8850MP/XN/ES are constructed the same except for the following:

Mark	No.	Description	DEH-P780MP/XN/UC	DEH-P7800MP/XN/UC	DEH-P8850MP/XN/ES
	8	Detach Grille Assy	CXC6069	CXC6070	CXC5596
	22	Grille Unit	CXC6173	CXC6174	CXC5605

2.3 EXTERIOR(2)



(1) EXTERIOR(2) SECTION PARTS LIST

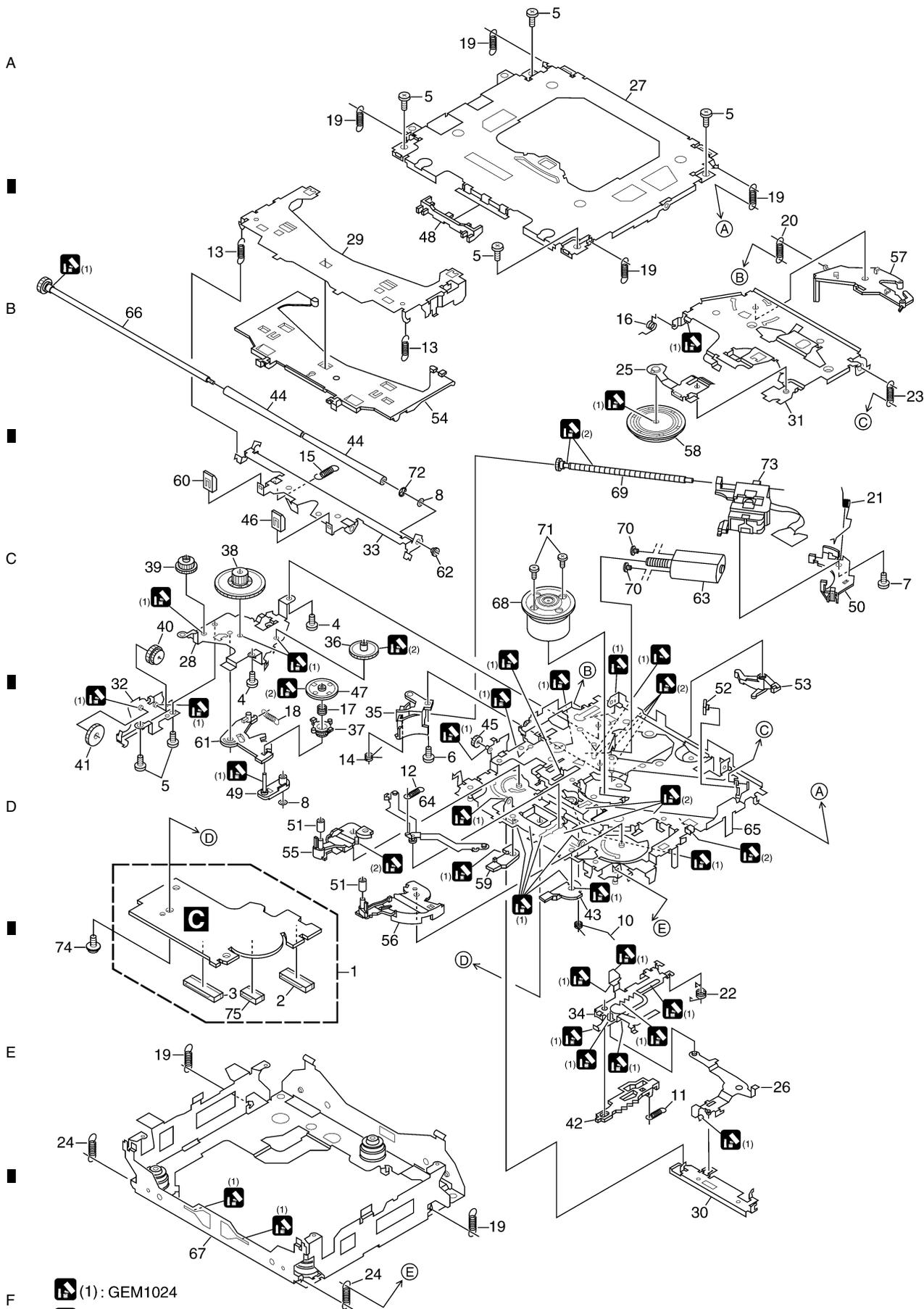
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Screw	BSZ26P060FTC	47	ZH Connector 2P (CN971)	VKN1928
2	Screw(M2.6 x 4)	CBA1828	48	*****	
3	Screw(M2 x 2.5)	CBA1924	49	*****	
4	Cord Assy	CDE8315	50	*****	
5	Cord Assy	See Contrast table(2)	51	*****	
6	Cable	CDE8067	52	*****	
7	*****		53	*****	
8	Insulator	CNN1406	54	Panel Unit	XXA7408
9	Holder	XNC7017	55	Drive Unit	CXC6618
10	Earth Plate	CND2171	56	Screw	BMZ26P040FTC
11	Shield	CND3599	57	Screw(M2 x 2)	CBA1871
12	Cushion	CNM9126	58	Cord	CDE7392
13	Insulator	CNM9936	59	Gear	CNV7752
14	Tuner Amp Unit	See Contrast table(2)	60	Gear	CNV7753
15	Screw	ASZ26P060FTC	61	Gear	CNV7754
16	Screw	BMZ26P040FTC	62	Gear	CNV7755
17	Screw	BMZ26P120FTC	63	Switch Unit	CWS1389
18	Screw	BMZ26P180FTC	64	Switch(S1)	CSN1051
19	Screw(M2.6 x 14)	CBA1632	65	Switch(S2)	CSN1052
20	Antenna Cable	CDH1336	66	Arm Unit	CXC2199
21	Clamper	CEF1050	67	Arm Unit	CXC6623
22	Plug(CN991)	CKM1278	68	Arm Unit	CXC6624
23	Connector(CN321)	CKM1389	69	Screw	JFZ20P020FTC
24	Plug(CN801)	CKS-786	70	Spring	XBL7003
25	Connector(CN701)	CKS3834	71	CD Mechanism Module (S10.5)	CXK5754
26	Connector(CN671)	See Contrast table(2)	72	Screw	ISS26P055FTC
27	Connector(CN811)	CKS4811	73	Holder	CND3606
28	Connector(CN431)	See Contrast table(2)	74	Washer	YE15FTC
29	Connector(CN702)	CKS4824	75	IC (IC351)	PAL007B
30	Connector(CN101)	CKS5271	76	Transistor (Q721,901, 911, 921)	2SD2396
31	*****		77	Screw(M2 x 2)	CBA1871
32	Connector(CN441)	CKS5523	78	Screw(M2 x 2)	CBA1935
33	Holder(CN402)	CNC5399	79	Spring	CBH2530
34	Holder	See Contrast table(2)	80	Connector	CKS5273
35	Holder	CND3133	81	Arm	CNV6962
36	Heat Sink	CNR1869	82	Guide	CNV6967
37	FM/AM Tuner Unit	CWE1952	83	Guide	CNV8048
38	Holder	CND1054	84	Case Unit	CXC6483
39	*****		85	Screw(M2 x 3.5)	XBA7002
40	*****		86	Holder	XNC7019
41	*****		87	Flexible PCB	XNP7026
42	*****		88	Holder Unit	XXA7399
43	*****		89	Motor Unit(M801)	XXA7400
44	Insulator	XNM7119	90	Holder Unit	XXA7401
45	Fan Motor (M972)	CXM1288	91	Arm Unit	XXA7403
46	*****		92	Gear Unit	XXA7424

(2) CONTRAST TABLE

DEH-P780MP/XN/UC, DEH-P7800MP/XN/UC and DEH-P8850MP/XN/ES are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>DEH-P780MP/XN/UC</u>	<u>DEH-P7800MP/XN/UC</u>	<u>DEH-P8850MP/XN/ES</u>
	5	Cord Assy	Not used	Not used	CDE8062
	14	Tuner Amp Unit	CWN1757	CWN1758	CWN1439
	26	Connector(CN671)	CKS4124	CKS4124	Not used
	28	Connector(CN431)	Not used	Not used	CKS4823
	34	Holder	CND3129	CND3129	CND3161

2.4 CD MECHANISM MODULE



(1): GEM1024
 (2): GEM1045

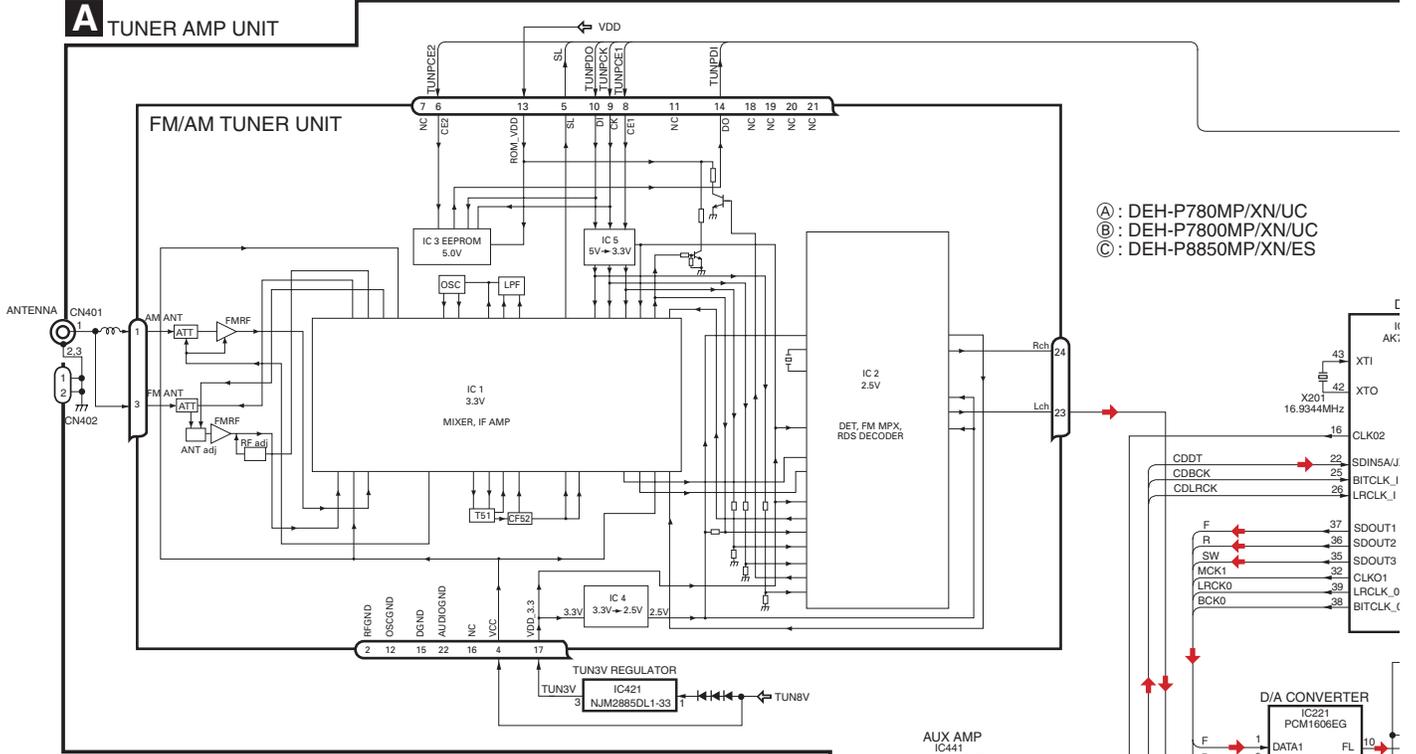
CD MECHANISM MODULE SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	CD Core Unit(COMP1D)	CWX3328	50	Rack	CNV8342
2	Connector(CN101)	CKS4182			
3	Connector(CN901)	CKS4187	51	Roller	CNV8343
4	Screw	BMZ20P025FTC	52	Holder	CNV8344
5	Screw	BSZ20P040FTC	53	Arm	CNV8345
			54	Guide	CNV8347
6	Screw(M2 x 3)	CBA1511	55	Arm	CNV8348
7	Screw(M2 x 4)	CBA1835			
8	Washer	CBF1038	56	Arm	CNV8349
9		57	Arm	CNV8350
10	Spring	CBH2609	58	Clamper	CNV8365
			59	Arm	CNV8386
11	Spring	CBH2612	60	Guide	CNV8396
12	Spring	CBH2614			
13	Spring	CBH2616	61	Arm	CNV8413
14	Spring	CBH2617	62	Collar	CNV8938
15	Spring	CBH2620	63	Motor Unit(M2)	CXC4026
			64	Arm Unit	CXC4027
16	Spring	CBH2855	65	Chassis Unit	CXC4028
17	Spring	CBH2937			
18	Spring	CBH2735	66	Gear Unit	CXC4029
19	Spring	CBH2854	67	Frame Unit	CXC4031
20	Spring	CBH2642	68	Motor Unit(M1)	CXC6742
			69	Screw Unit	CXC6359
21	Spring	CBH2856	70	Screw	JFZ20P020FTC
22	Spring	CBH2857			
23	Spring	CBH2860	71	Screw	JGZ17P022FTC
24	Spring	CBH2861	72	Washer	YE20FTC
25	Spring	CBL1686	73	Pickup Unit(P10.5)(Service)	CXX1942
			74	Screw	IMS26P030FTC
26	Arm	CND1909	75	Connector(CN902)	CKS4979
27	Frame	CND2582			
28	Bracket	CND2583			
29	Arm	CND2584			
30	Lever	CND2585			
31	Arm	CND2586			
32	Bracket	CND2587			
33	Arm	CND2588			
34	Lever	CND2589			
35	Holder	CNV7201			
36	Gear	CNV7207			
37	Gear	CNV7208			
38	Gear	CNV7209			
39	Gear	CNV7210			
40	Gear	CNV7211			
41	Gear	CNV7212			
42	Rack	CNV7214			
43	Arm	CNV7216			
44	Roller	CNV7218			
45	Gear	CNV7219			
46	Guide	CNV7361			
47	Gear	CNV7595			
48	Guide	CNV7799			
49	Arm	CNV7805			

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

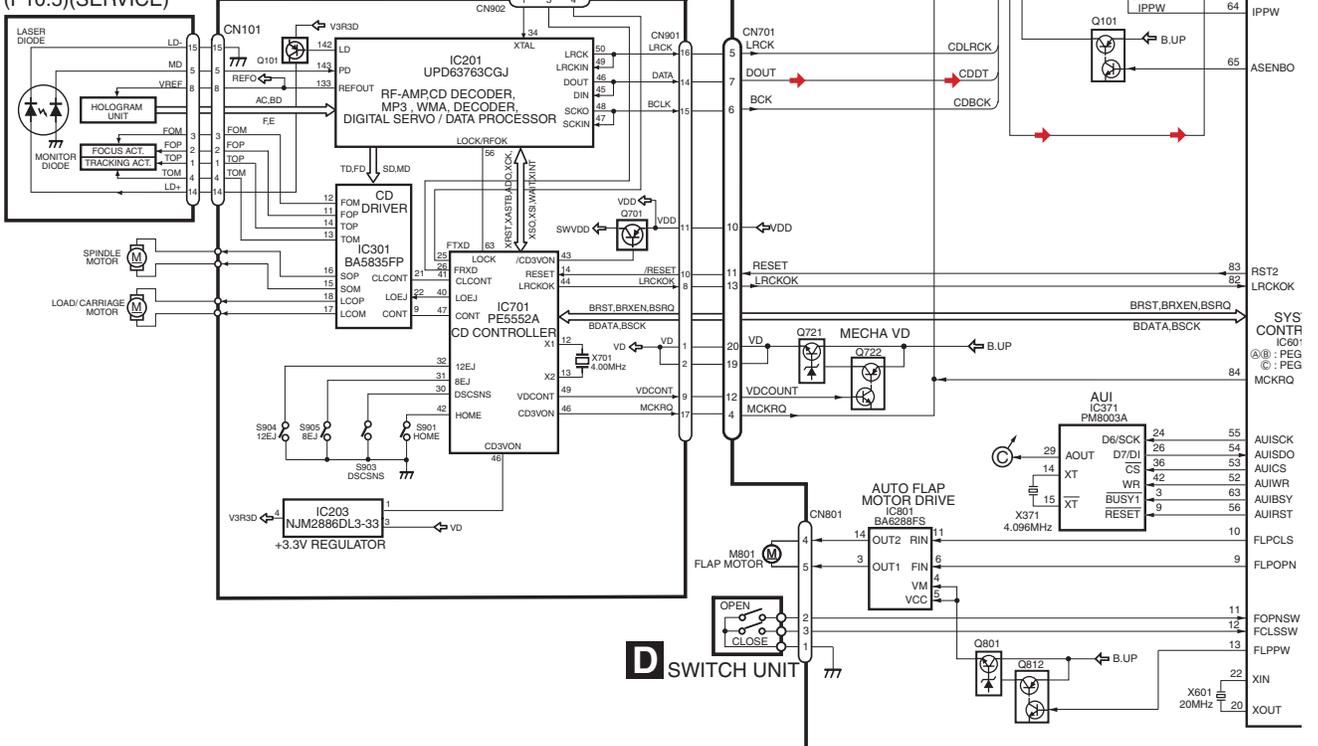
3.1 BLOCK DIAGRAM

A TUNER AMP UNIT



D PICKUP UNIT (P10.5)(SERVICE)

C CD CORE UNIT (COMP1D)



D SWITCH UNIT



A
B
C
D
E
F

A

B

C

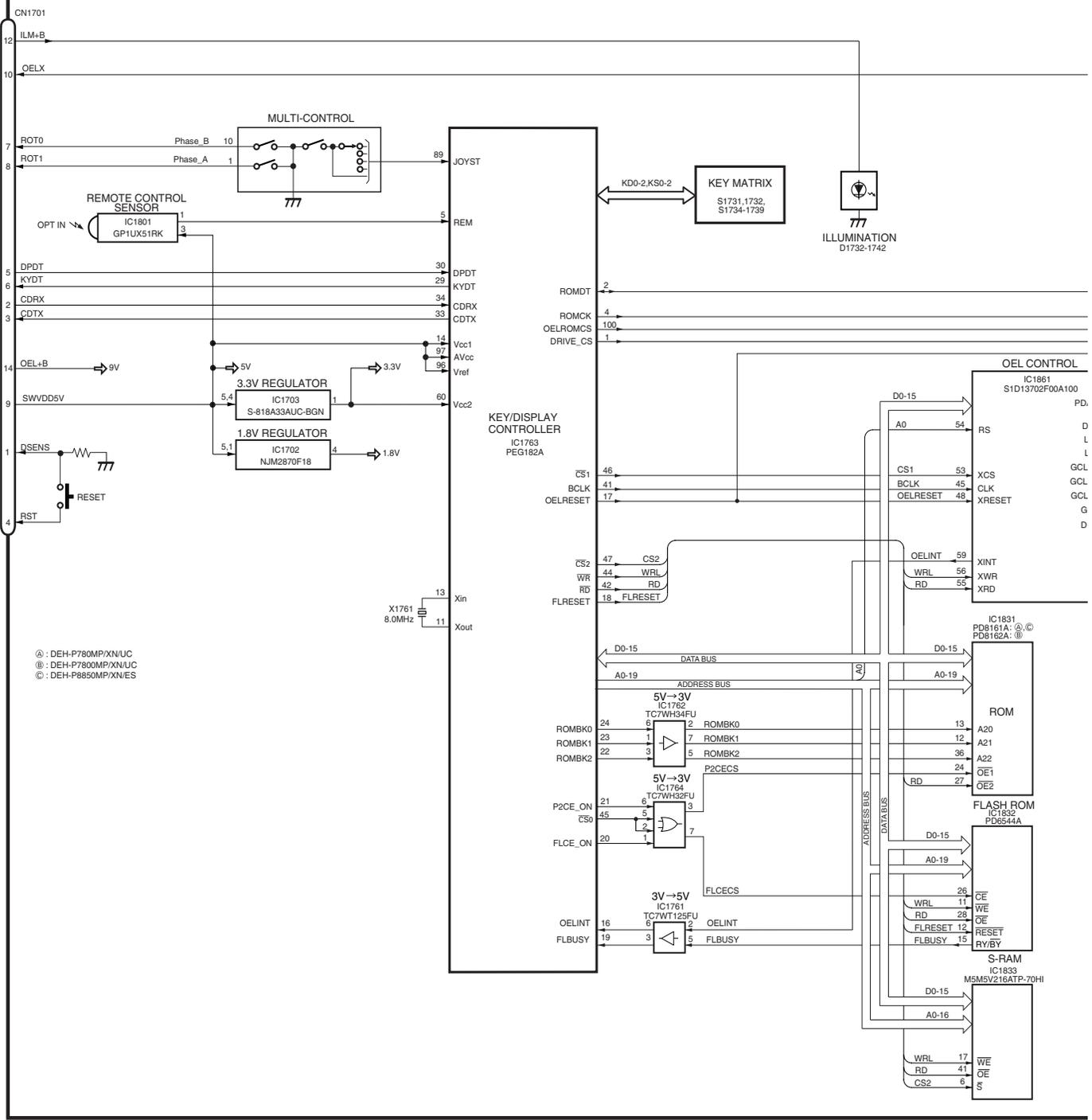
D

E

F

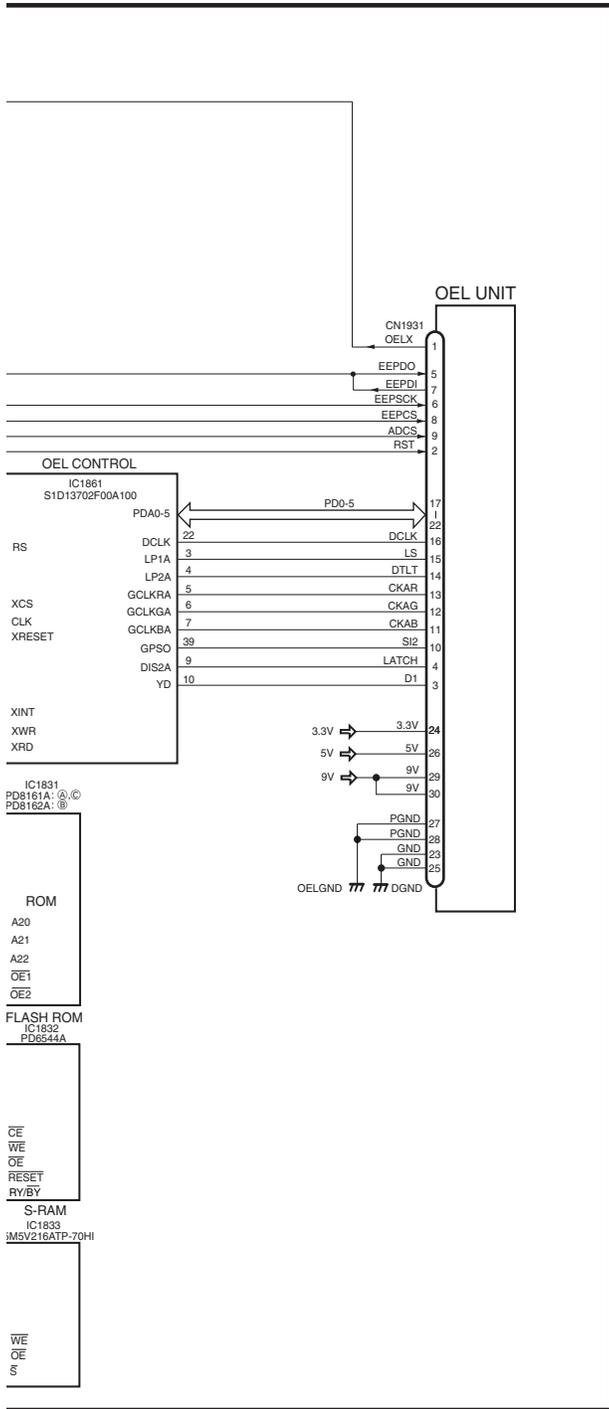
B KEYBOARD UNIT

A CN811



Ⓐ : DEH-P780MP/XN/UC
 Ⓑ : DEH-P7800MP/XN/UC
 Ⓒ : DEH-P6850MP/XN/ES

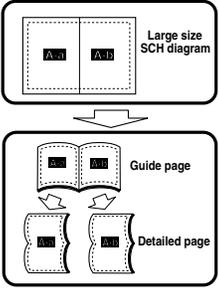
A
B
C
D
E
F



3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

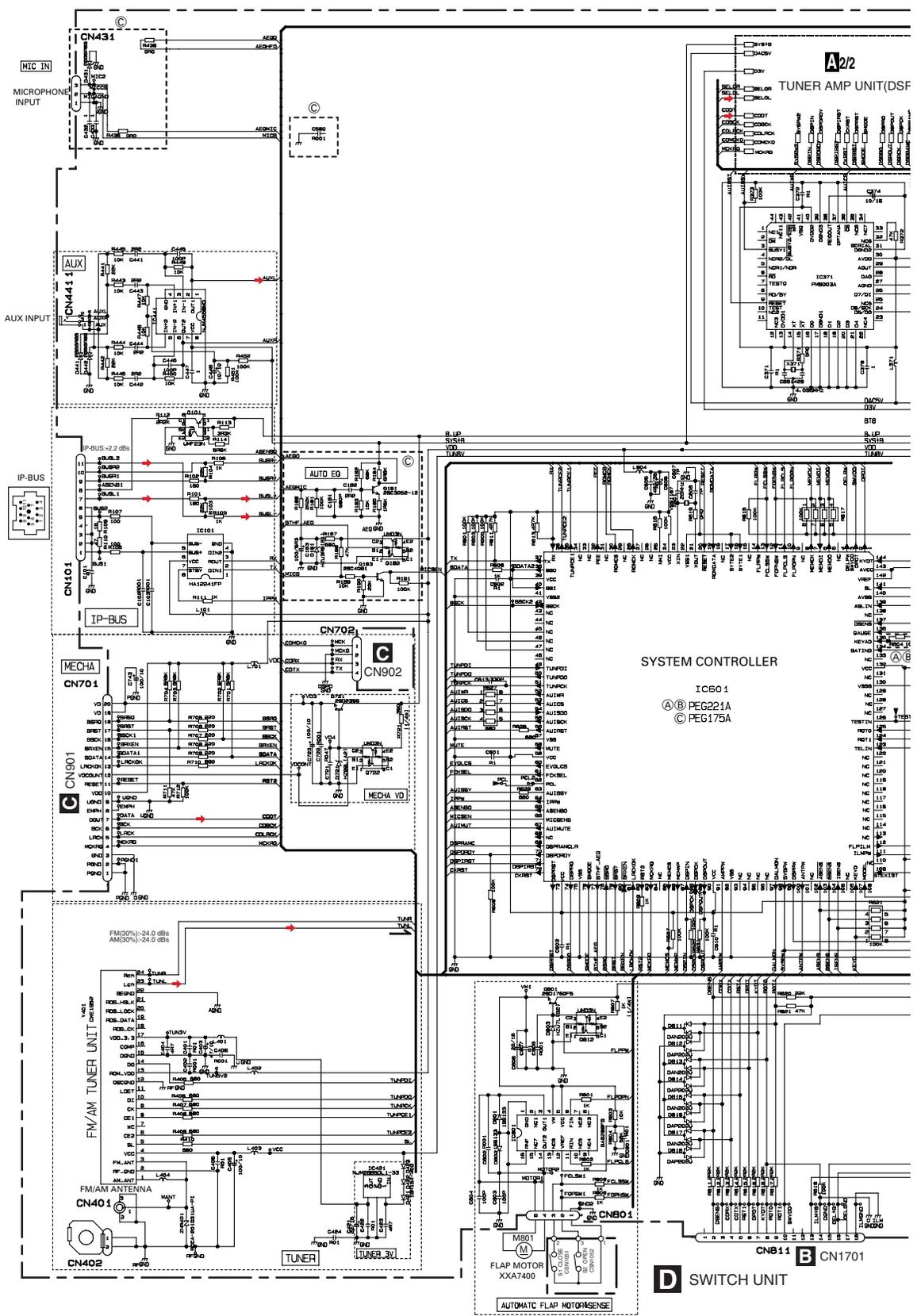
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

A
B
C
D
E
F



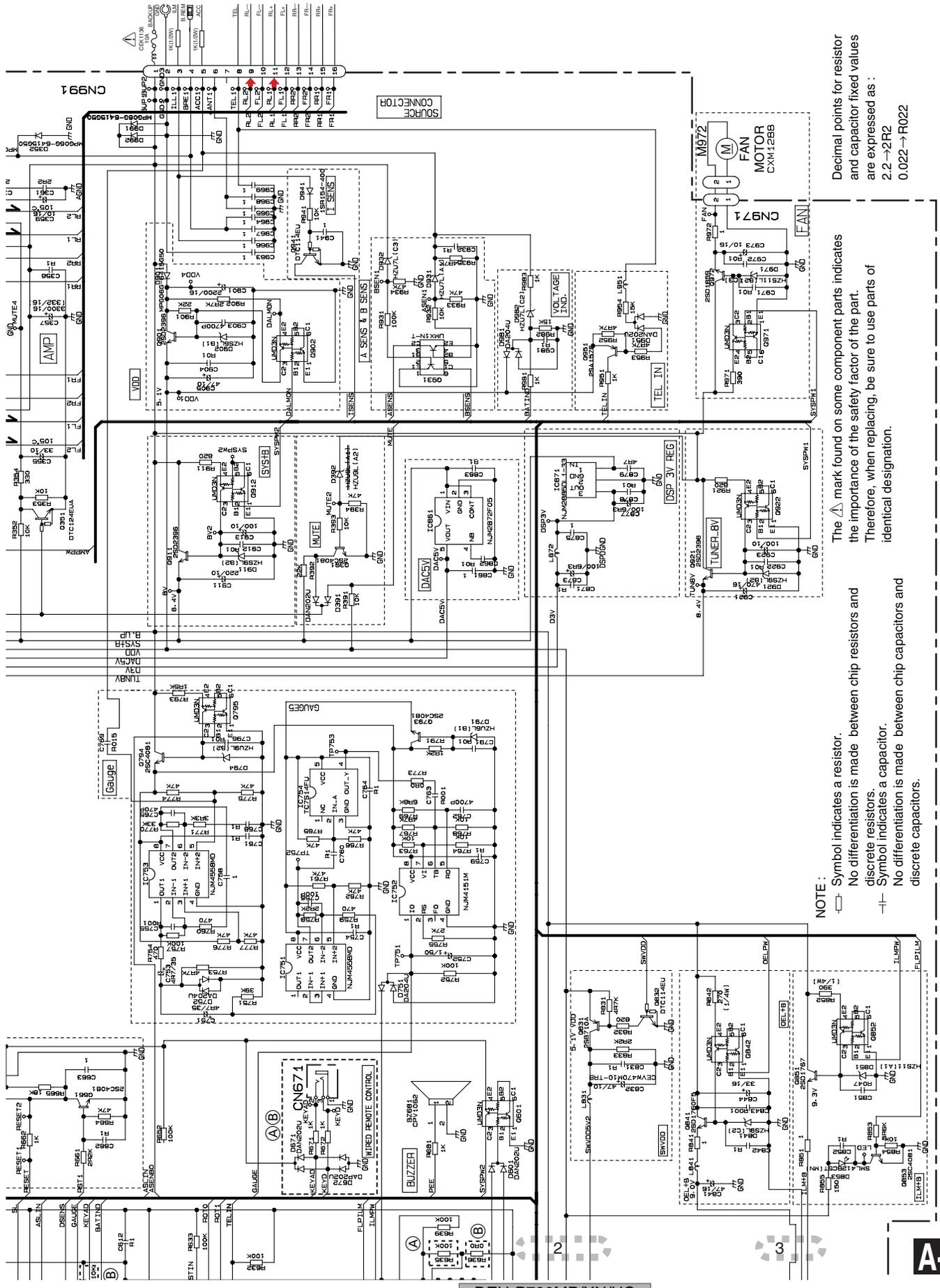
A-b 1/2

- Ⓐ : DEH-P780MP/XN/UC
- Ⓑ : DEH-P7800MP/XN/UC
- Ⓒ : DEH-P8850MP/XN/ES



A1/2 **D**

DEH-P780MP/XN/UC



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

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

NOTE :
 - \square 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.

A-a A-b

A-b 1/2

A-b 1/2

B

C

D

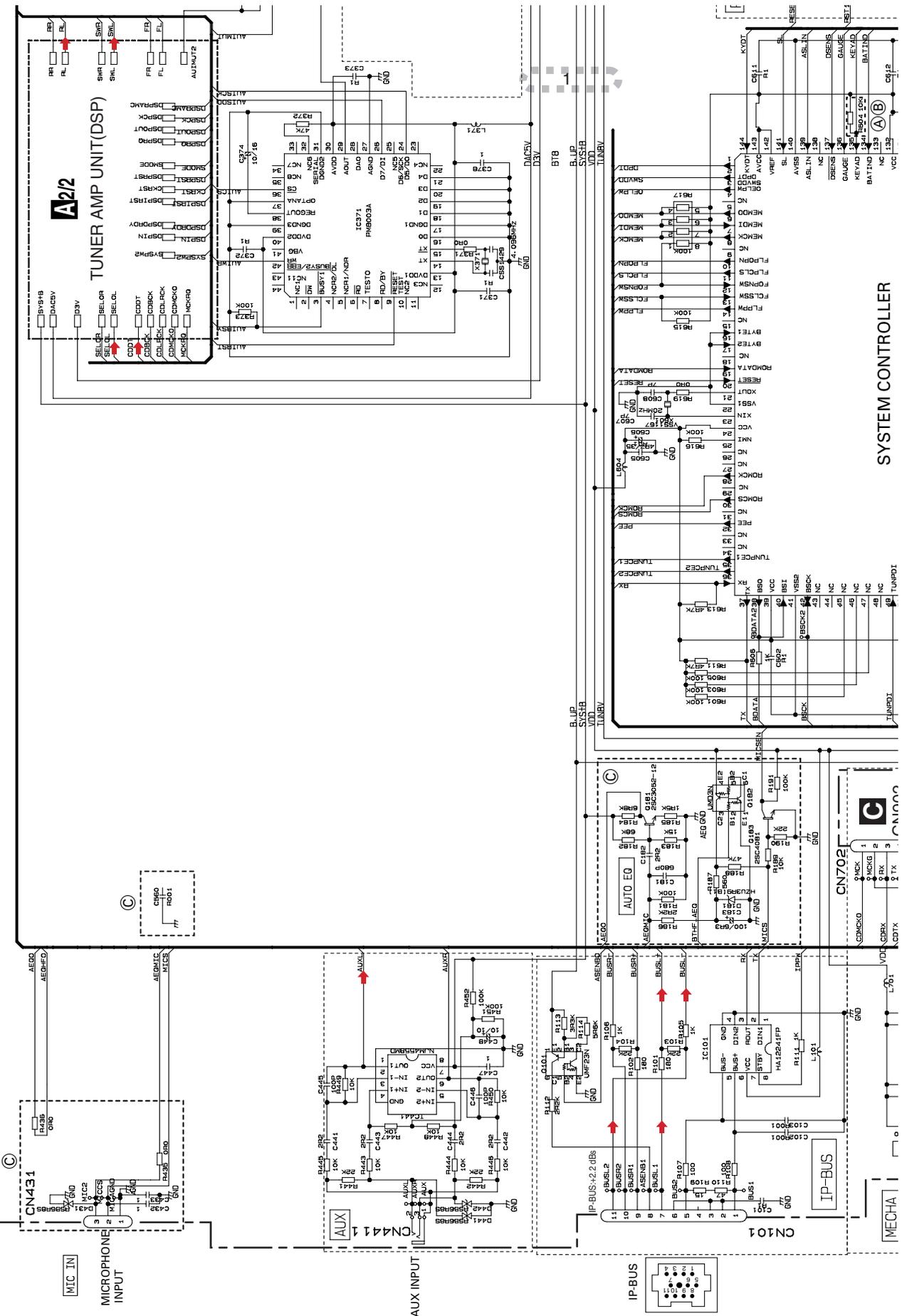
E

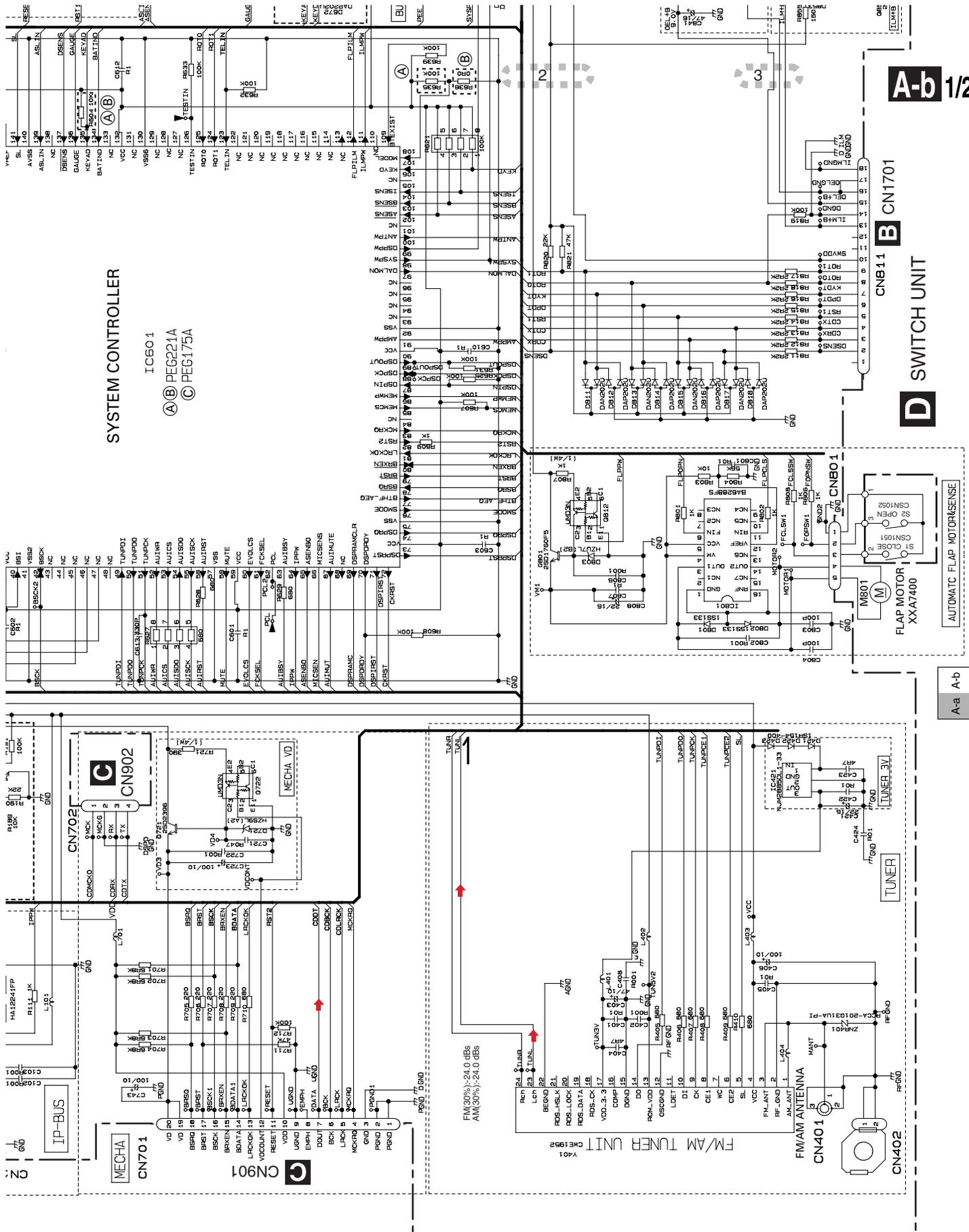
F

- (A) : DEH-P780MP/XN/UC
- (B) : DEH-P7800MP/XN/UC
- (C) : DEH-P8850MP/XN/ES

A-a A-b

A-a 1/2





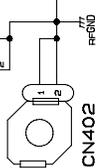
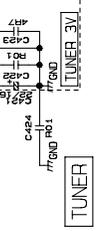
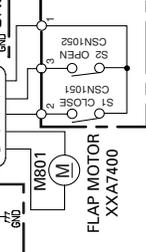
SYSTEM CONTROLLER

IC601
 (A) PEG221A
 (B) PEG175A

A-b 1/2

SWITCH UNIT

AUTOMATIC FLAP MOTOR/SENSE

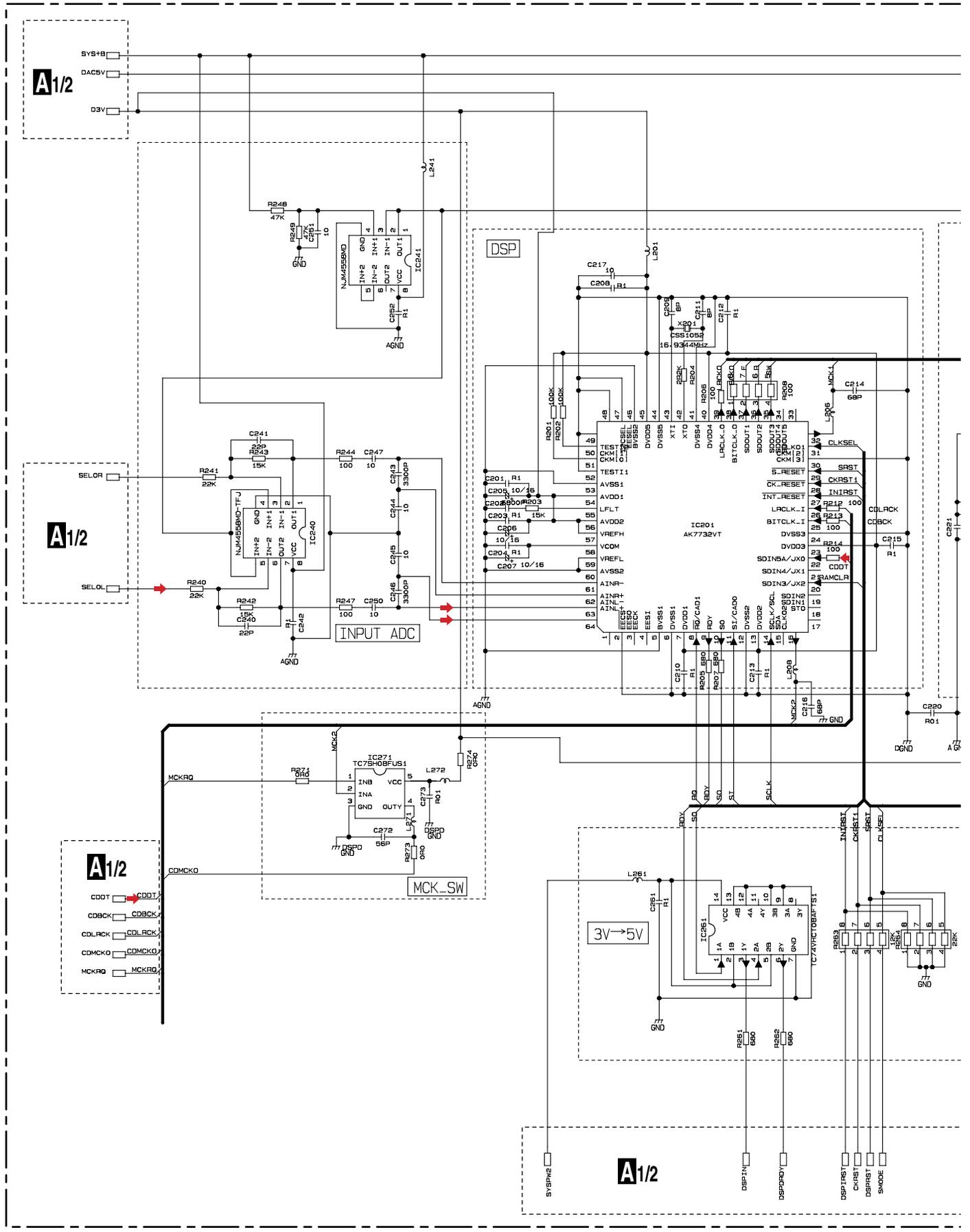


A-a 1/2 D

3.3 TUNER AMP UNIT(DSP)

A
B
C
D
E
F

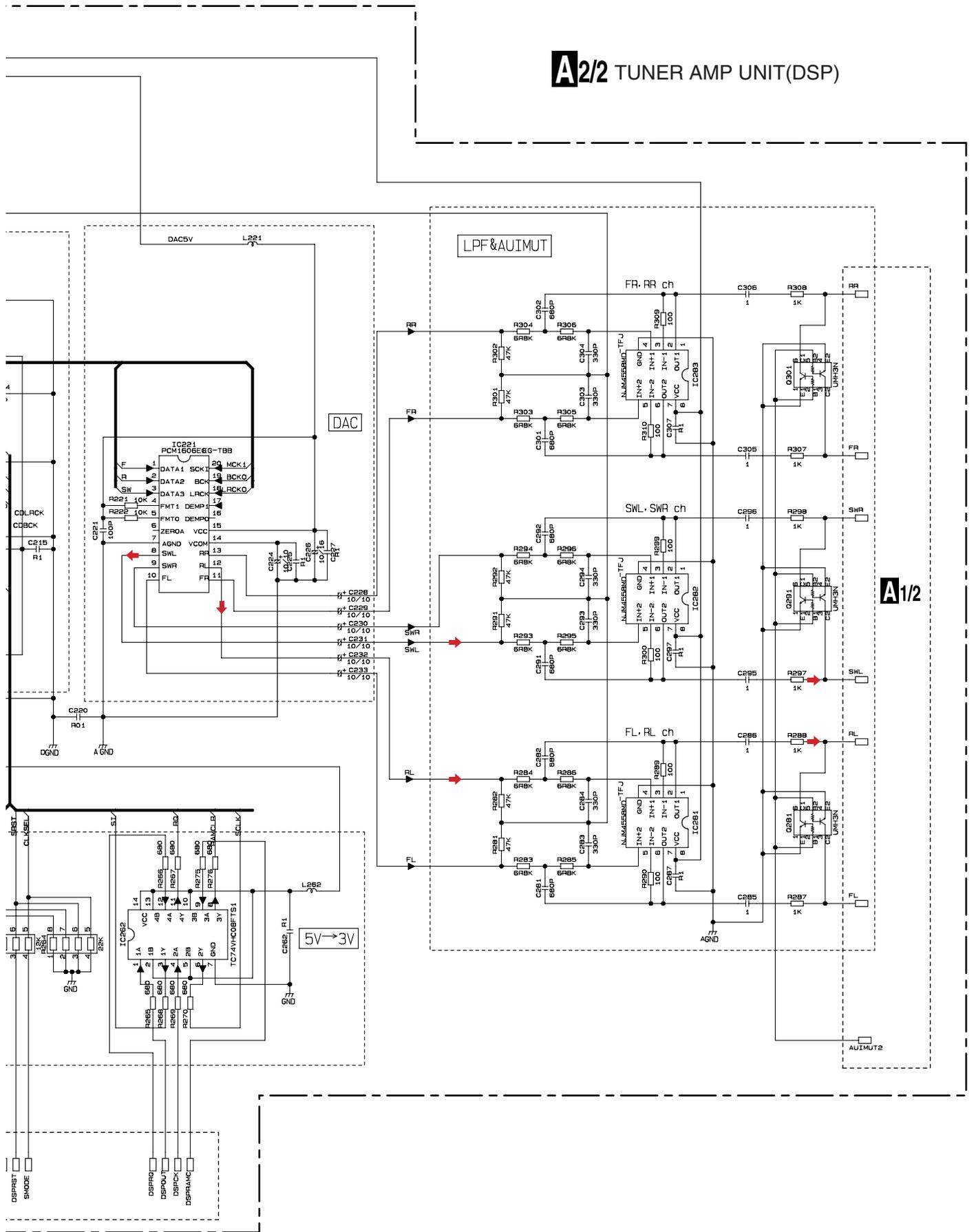
1 2 3 4



A2/2

26 1 2 3 4

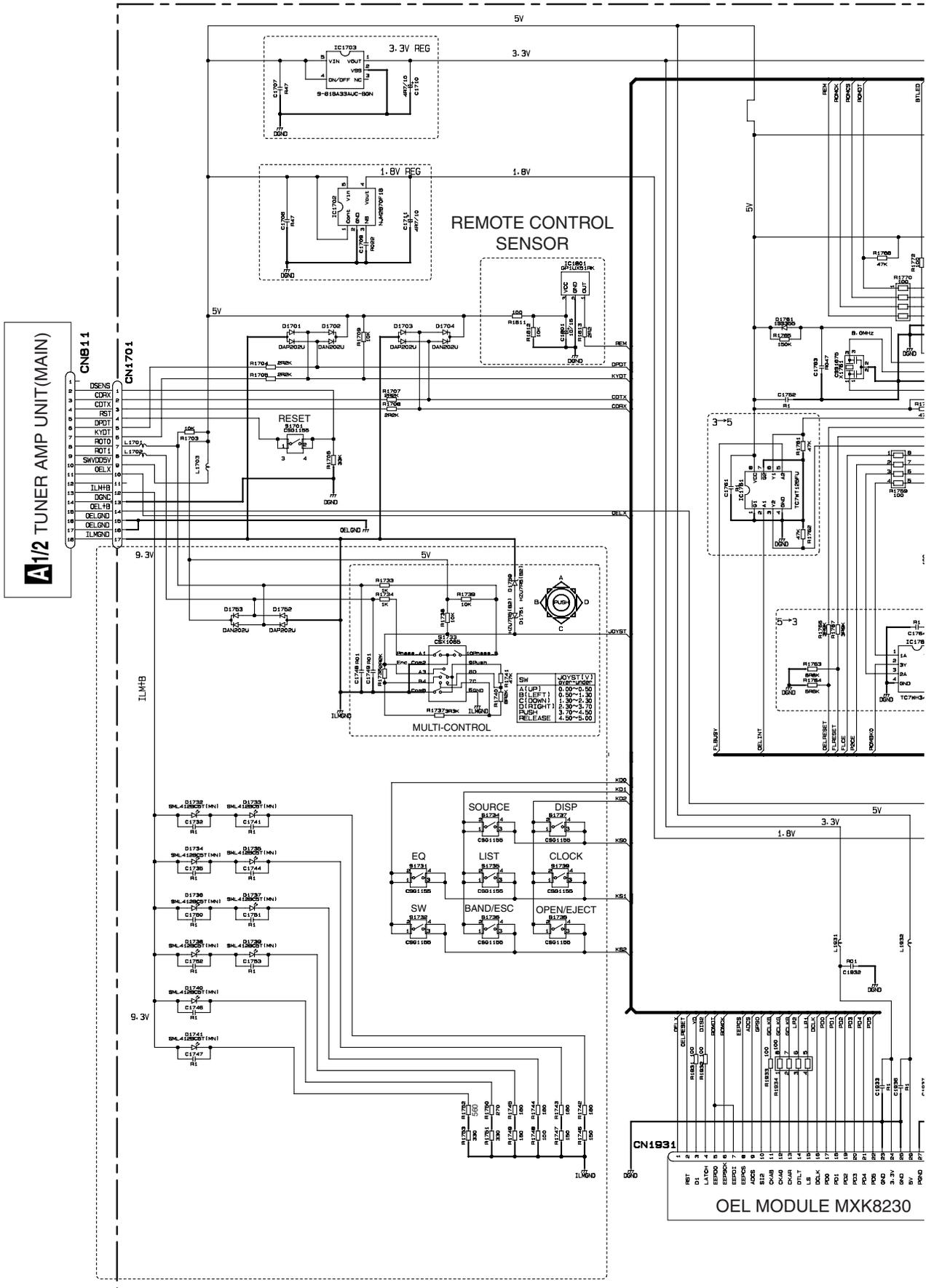
A2/2 TUNER AMP UNIT(DSP)



A
B
C
D
E
F



3.4 KEYBOARD UNIT



A1/2 TUNER AMP UNIT (MAIN)

REMOTE CONTROL SENSOR

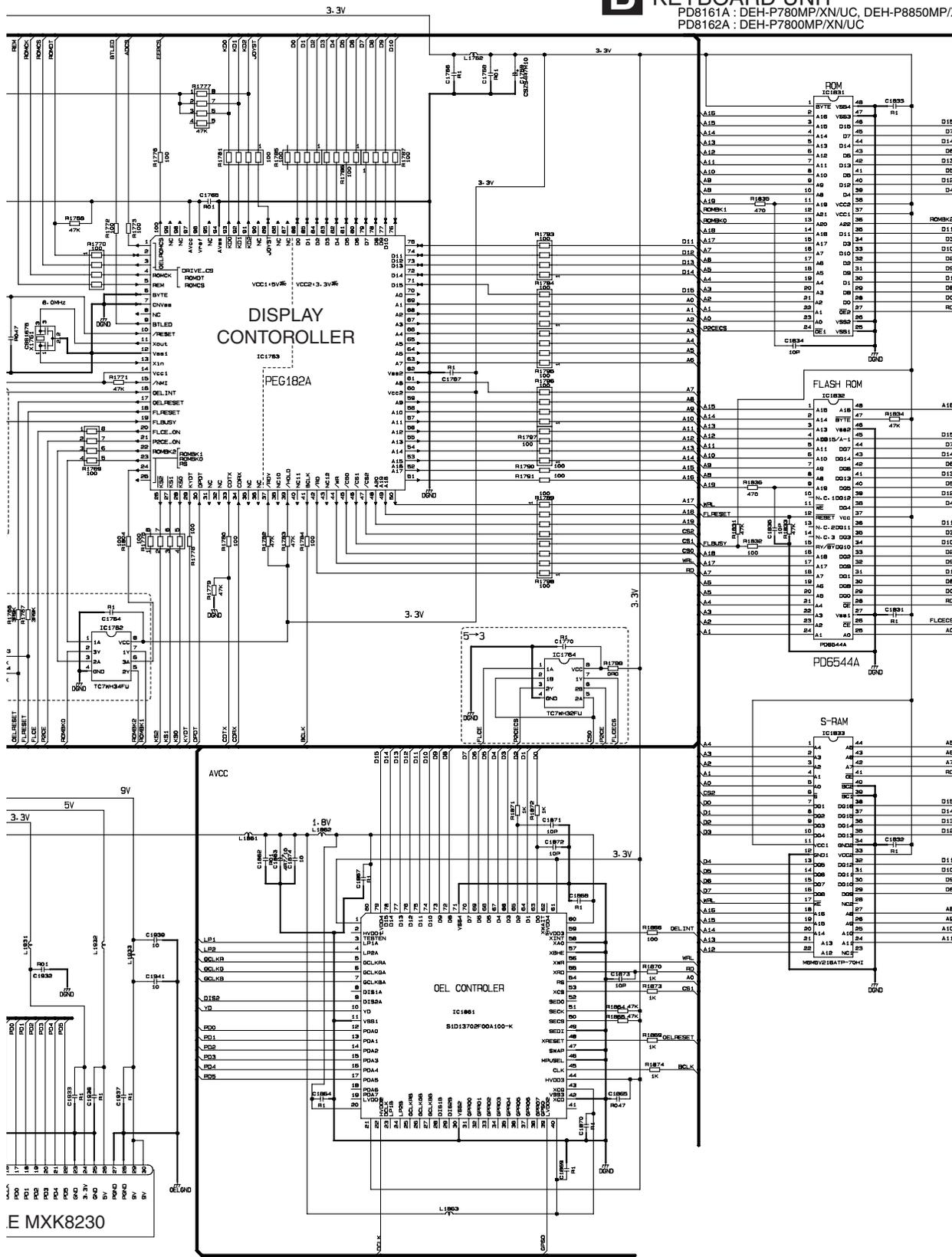
MULTI-CONTROL

OEL MODULE MXK8230

B

B KEYBOARD UNIT

PD8161A : DEH-P780MP/XN/UC, DEH-P8850MP/XN/ES
PD8162A : DEH-P7800MP/XN/UC



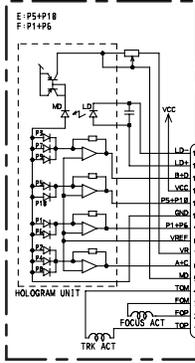
A
B
C
D
E
F



3.5 CD CORE UNIT(COMP1D)(GUIDE PAGE)

C-a

PICKUP UNIT(P10.5)(SERVICE)



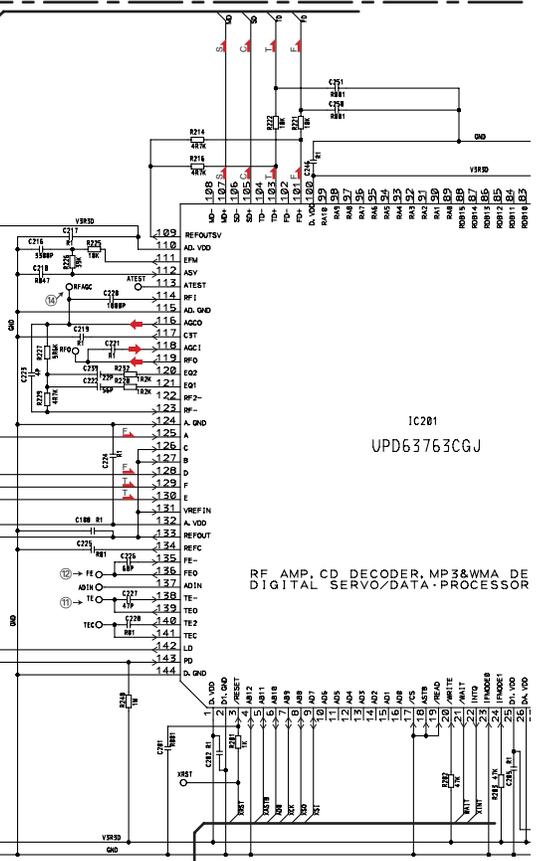
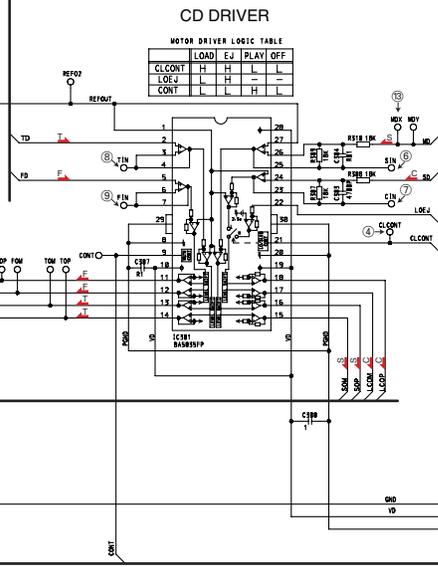
F. ACT: Applying the focus actuator current to the pickup.
 T. ACT: Applying the tracking actuator current to the pickup.

SWITCHES:
 CD CORE UNIT(COMP1D)
 S901:HOME SWITCH.....ON-OFF
 S903:DISCSNS SWITCH.....ON-OFF
 S904:12EJ SWITCH.....ON-OFF
 S905:8EJ SWITCH.....ON-OFF

The underlined indicates the switch position.

M1 CXC6742
 SPINDLE MOTOR

M2 CXC4026
 LOADING/CARRIAGE MOTOR



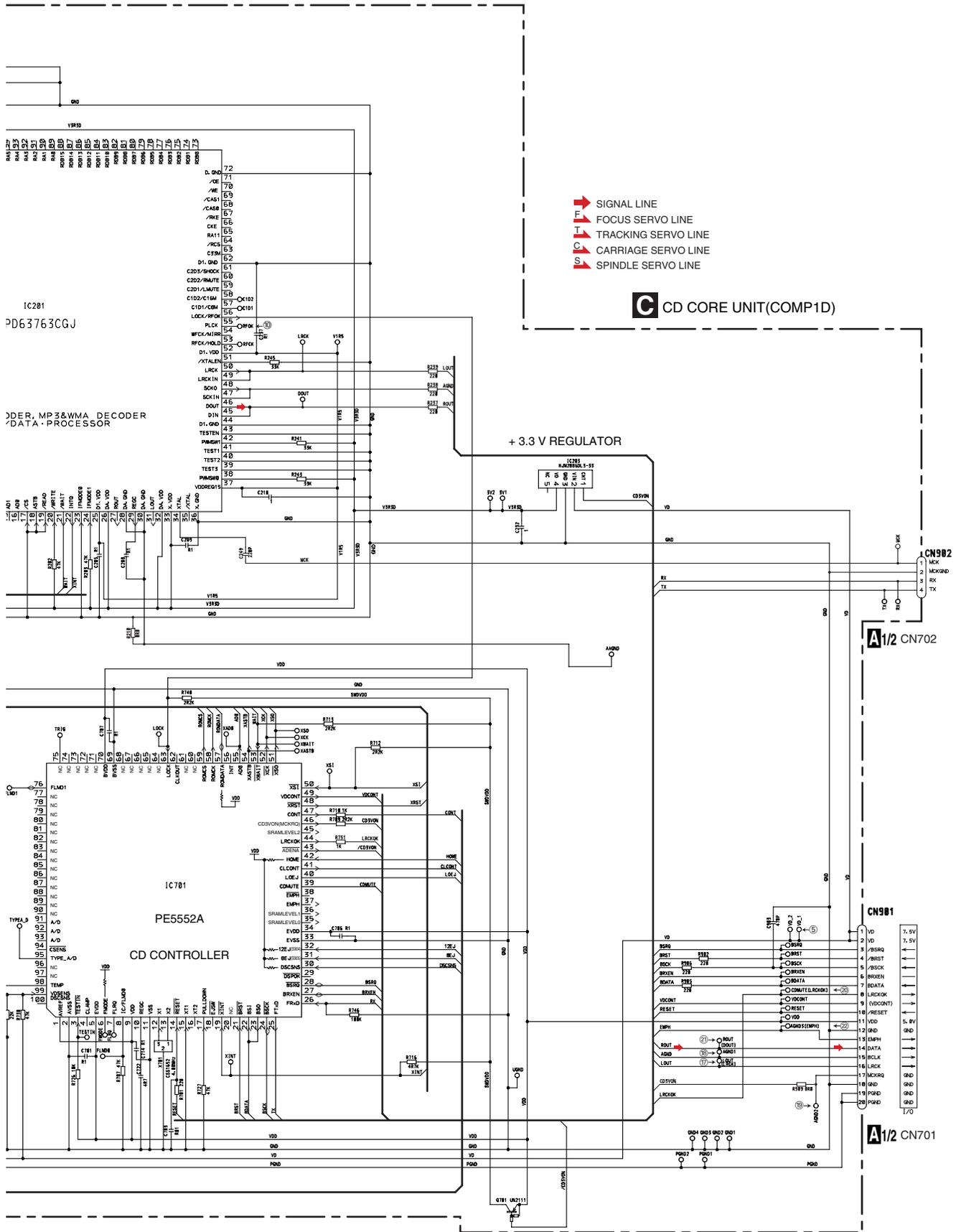
IC201
 UPD63763CGJ

RF AMP, CD DECODER, MP3&WMA DE DIGITAL SERVO/DATA PROCESSOR

- ⊙ Monitor land(φ1.2mm)
- #Monitor land(φ0.8mm)
- Land for manual soldering

NOTE1) GND ... CD LSI, RFAMP, CPU
 PGND ... Actuator, Motor Driver
 AGND ... Audio
 These GND's are not connected to each other on PCB.
 PGND is connected to a floating mechanism part by a screw.

C-b



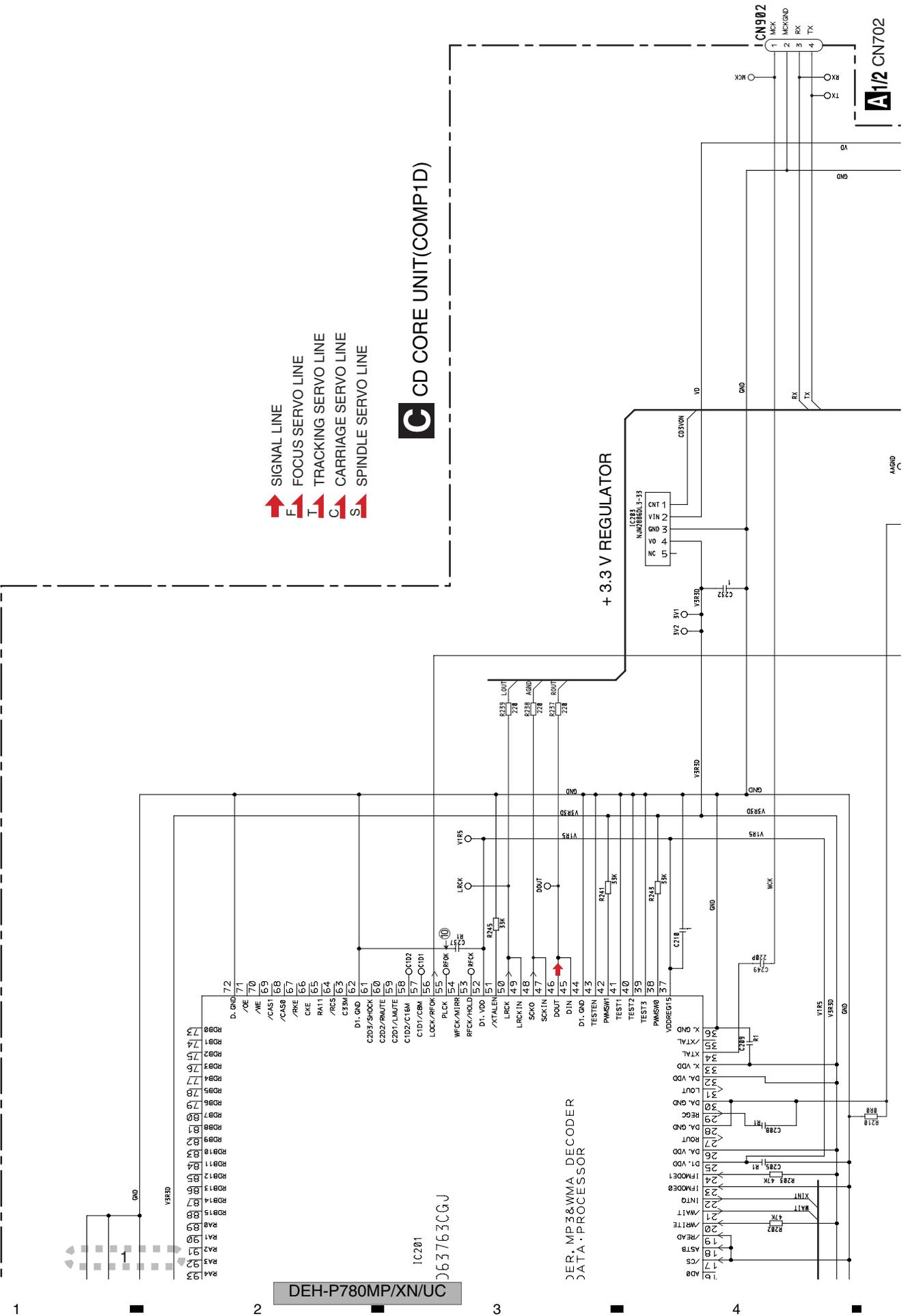
- SIGNAL LINE
- FOCUS SERVO LINE
- TRACKING SERVO LINE
- CARRIAGE SERVO LINE
- SPINDLE SERVO LINE

C CD CORE UNIT (COMP1D)

C

C-a C-b

C-b



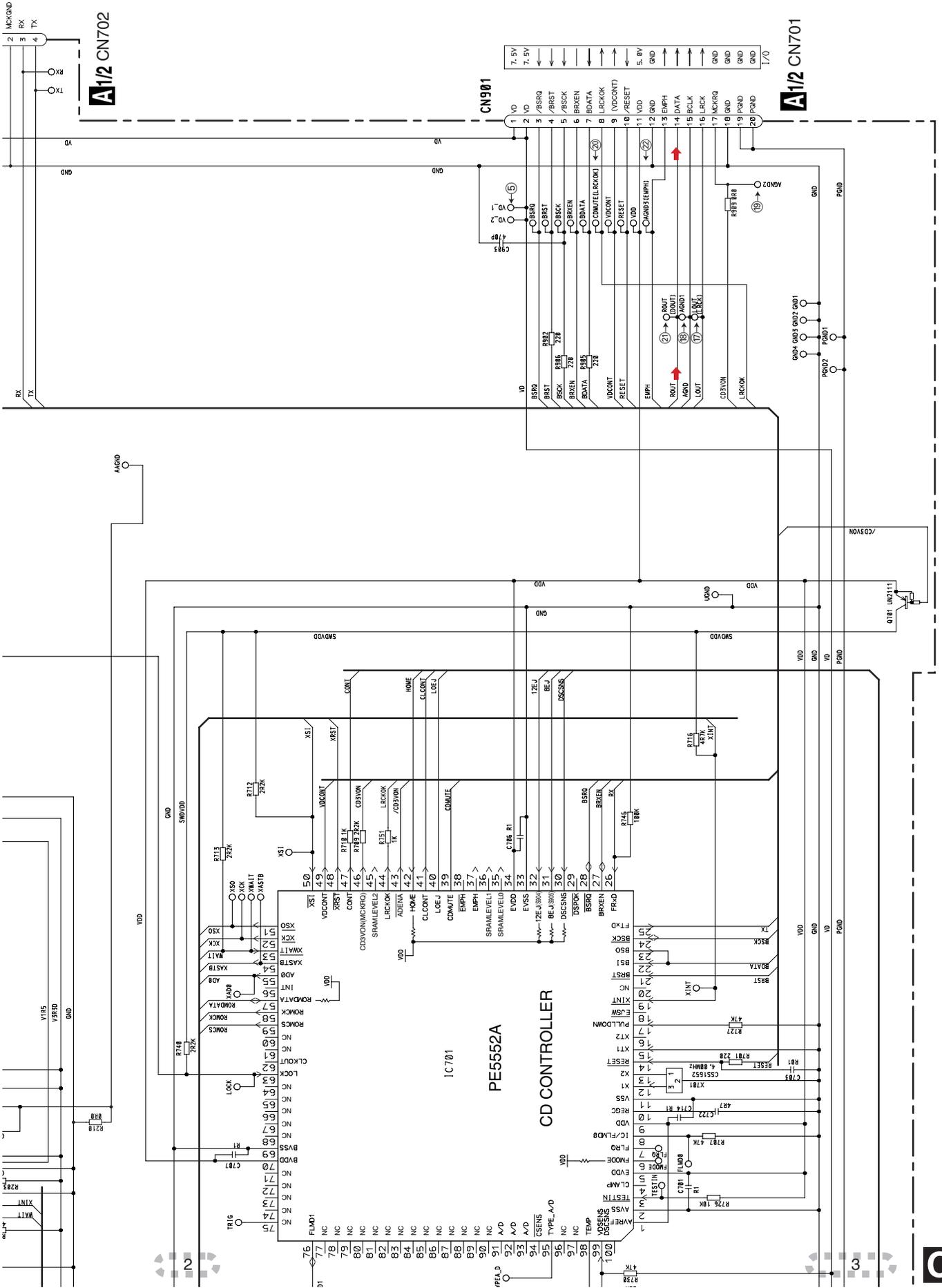
- ↑ SIGNAL LINE
- ↑ FOCUS SERVO LINE
- ↑ TRACKING SERVO LINE
- ↑ CARRIAGE SERVO LINE
- ↑ SPINDLE SERVO LINE

CD CORE UNIT (COMP1D)

+ 3.3 V REGULATOR

DEC/M3&WMA DECODER
DATA PROCESSOR

A11/2 CN702

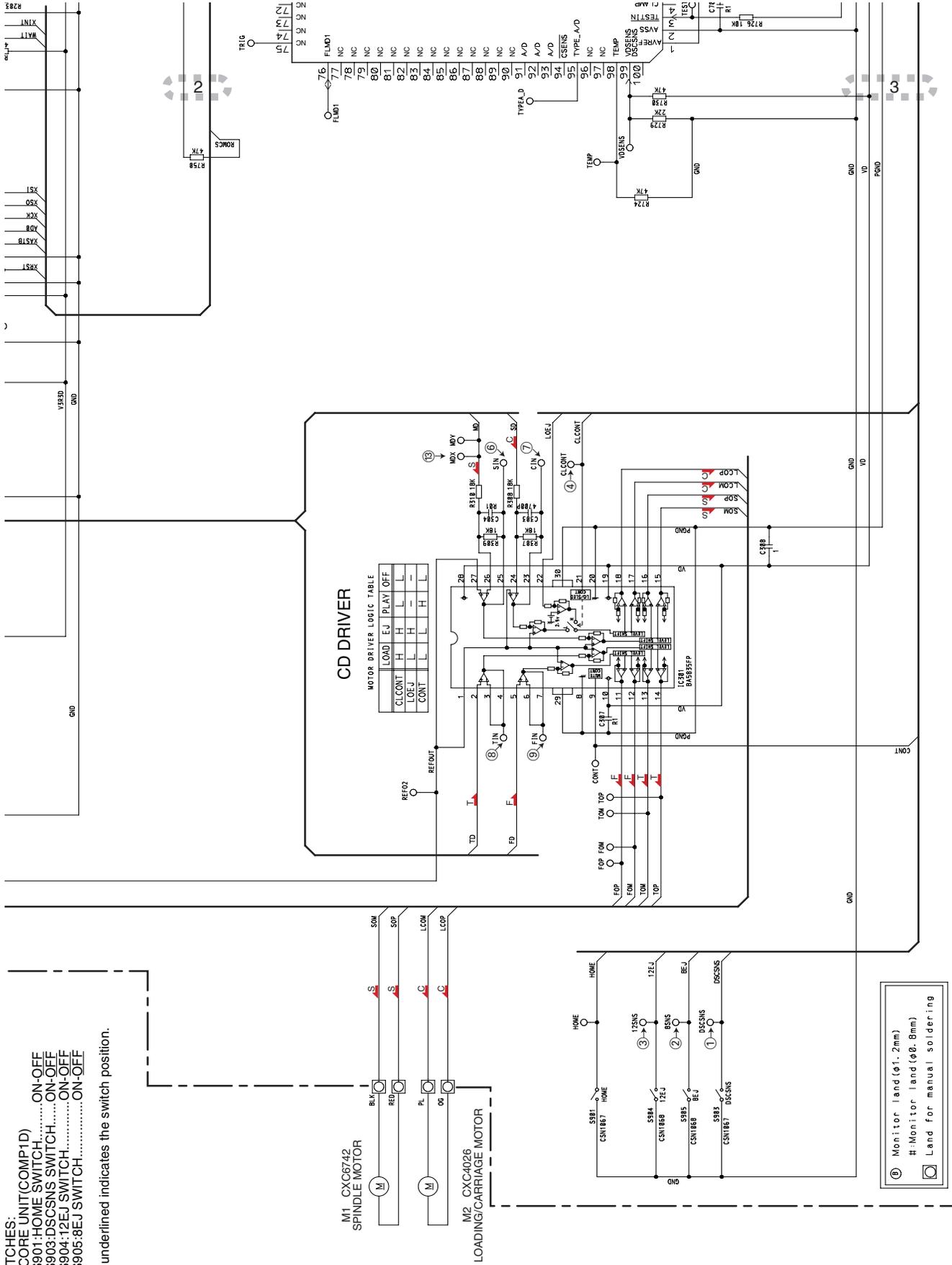


SWITCHES:
 CD CORE UNIT (COMP1D) ON-OFF
 S801:HOME SWITCH..... ON-OFF
 S903:DSCSNS SWITCH..... ON-OFF
 S904:12EJ SWITCH..... ON-OFF
 S905:8EJ SWITCH..... ON-OFF

The underlined indicates the switch position.

M1 CX6742
 SPINDLE MOTOR

M2 CX4026
 LOADING/CARRIAGE MOTOR



Ⓑ Monitor land (φ1.2mm)
 # Monitor land (φ0.8mm)
 □ Land for manual soldering

NOTE1) GND ... CD LSI, RFAMP, CPU
 PGND ... Actuator, Motor Driver
 AGND ... Audio
 These GND's are not connected to each other on PCB.
 PGND is connected to a floating mechanism part by a screw.

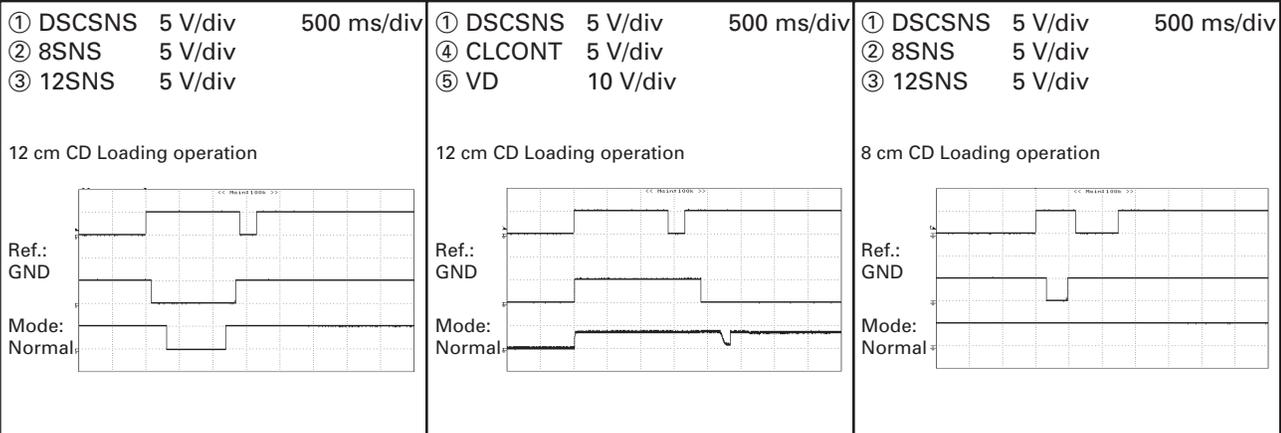
C-a C-b

C-b

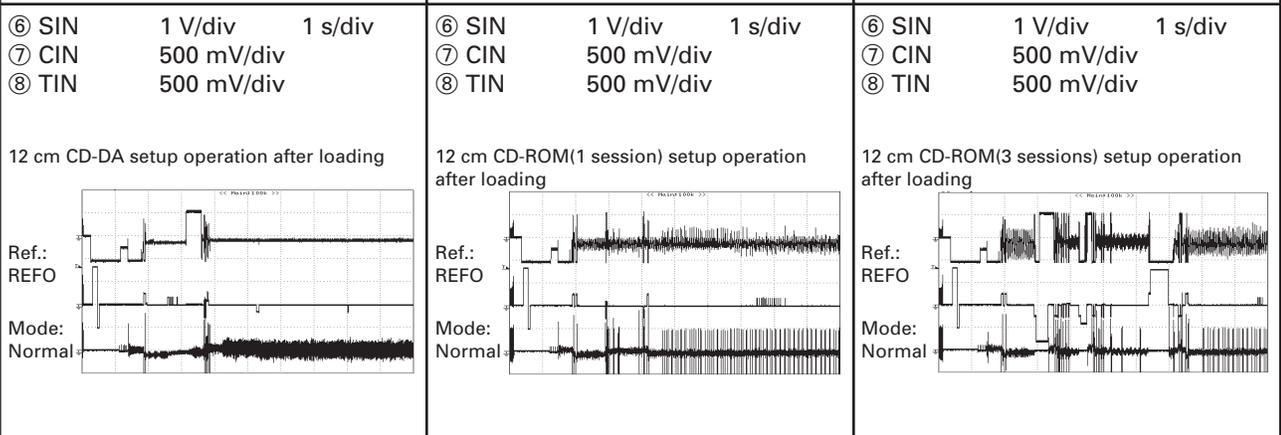
Waveforms

Note : 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65 V)

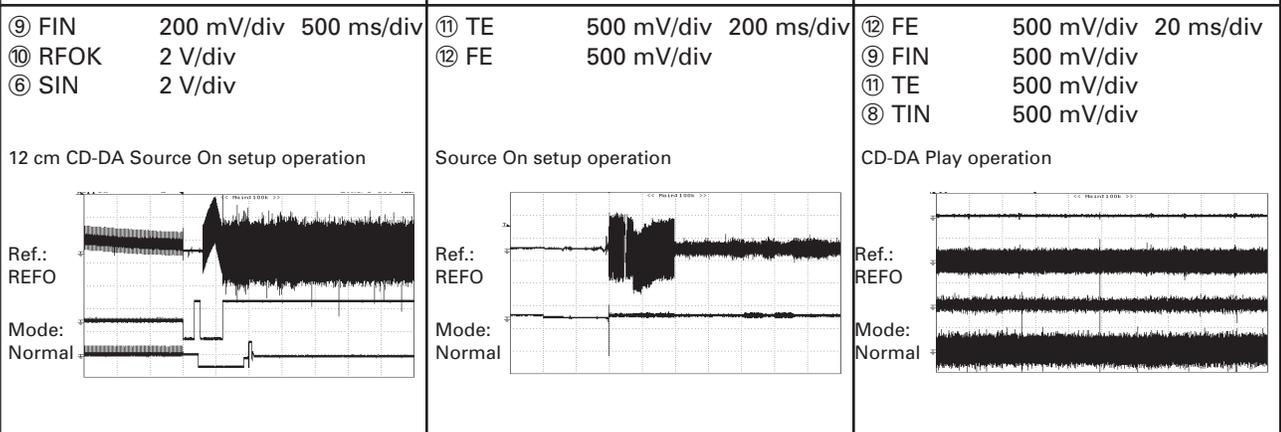
A



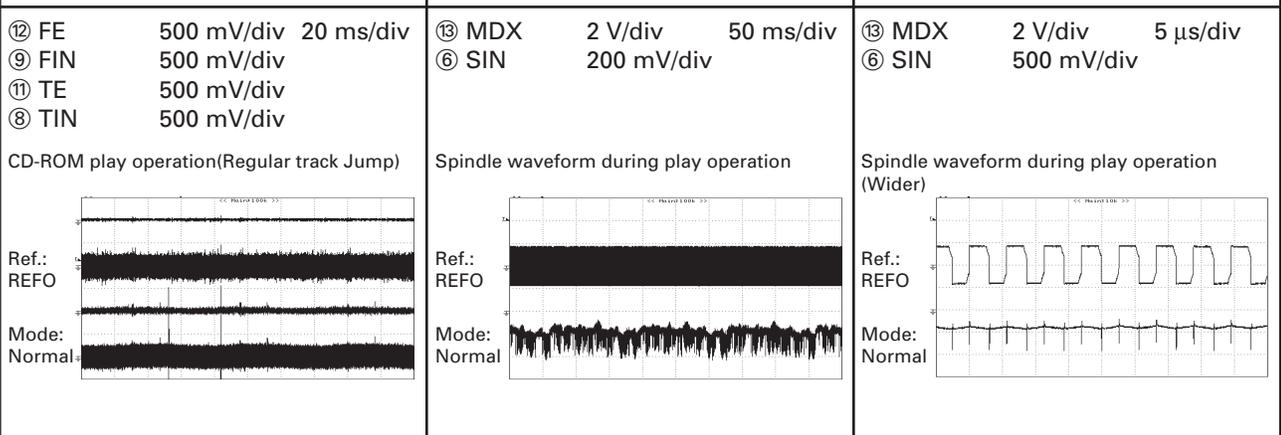
B



C

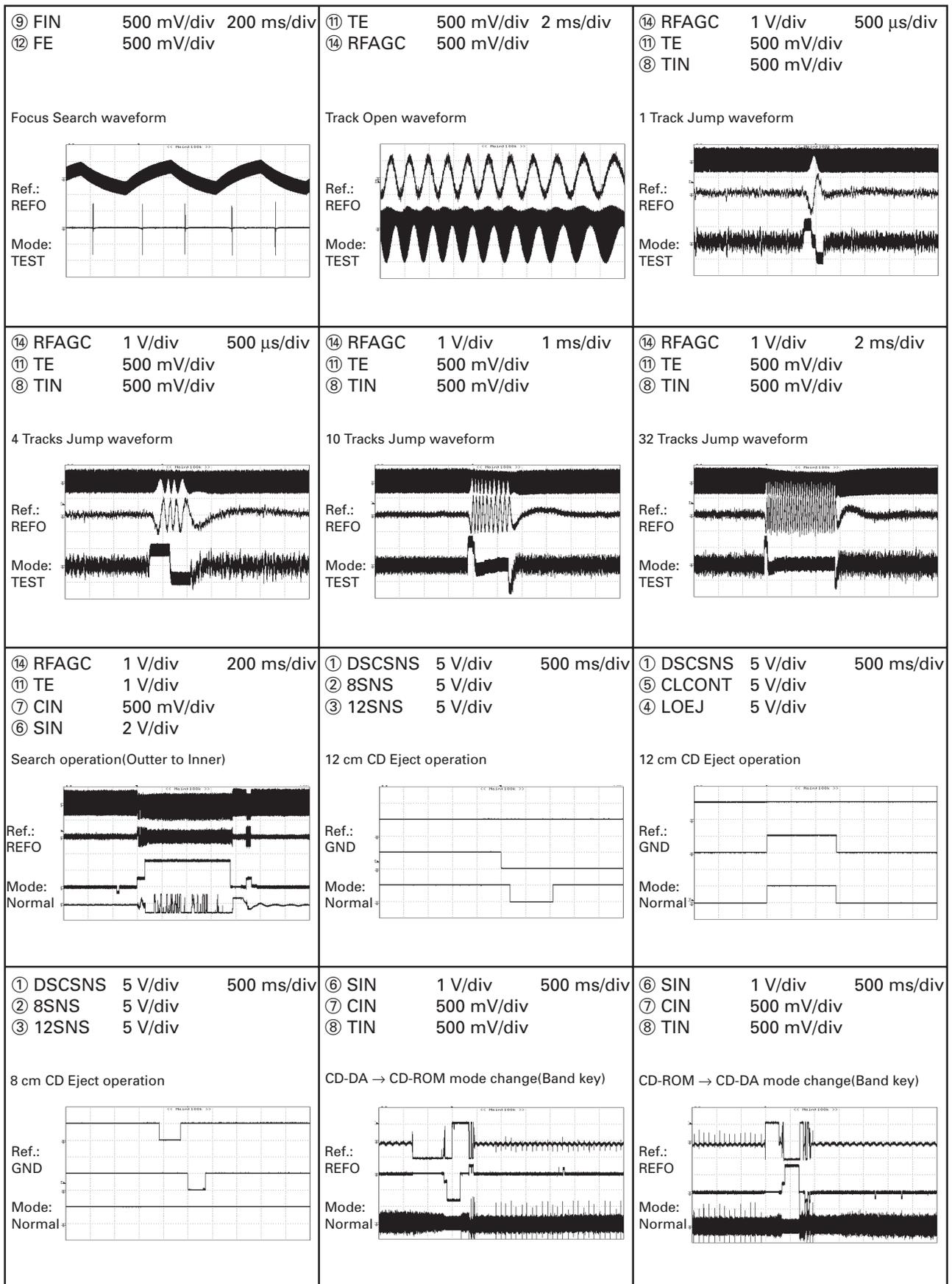


D



E

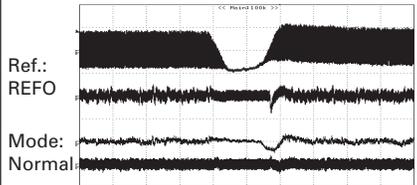
F



A

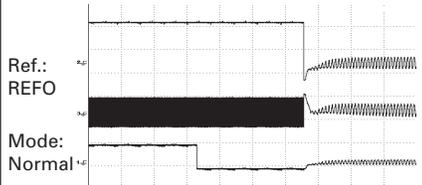
- ⑭ RFAGC 1 V/div 500 μs/div
- ⑧ TIN 1 V/div
- ⑪ TE 1 V/div
- ⑨ FIN 1 V/div

Black dot(800 μm) during play



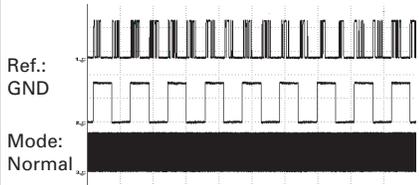
- ⑲ CD3VON 5 V/div 200 ms/div
- ⑰ LRCK 2 V/div
- ⑳ LRCKOK 2 V/div

12 cm CD Eject operation



- ㉑ DOUT 2 V/div 20 μs/div
- ⑰ LRCK 2 V/div
- ⑱ BCK 2 V/div

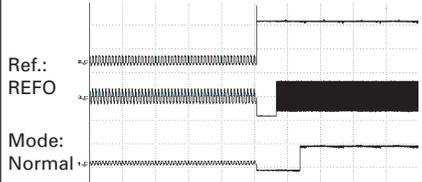
CD-DA play operation



B

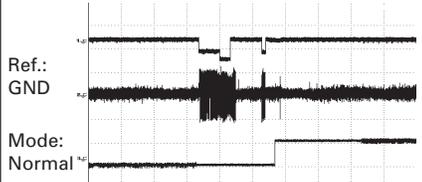
- ⑲ CD3VON 5 V/div 200 ms/div
- ⑰ LRCK 2 V/div
- ⑳ LRCKOK 2 V/div

12 cm CD-DA Source On setup operation



- ⑦ CIN 500 mV/div 100 ms/div
- ⑪ TE 500 mV/div
- ㉒ EMPH 5 V/div

Tracks Jump(EMPH : OFF → ON)



C

D

E

F

A

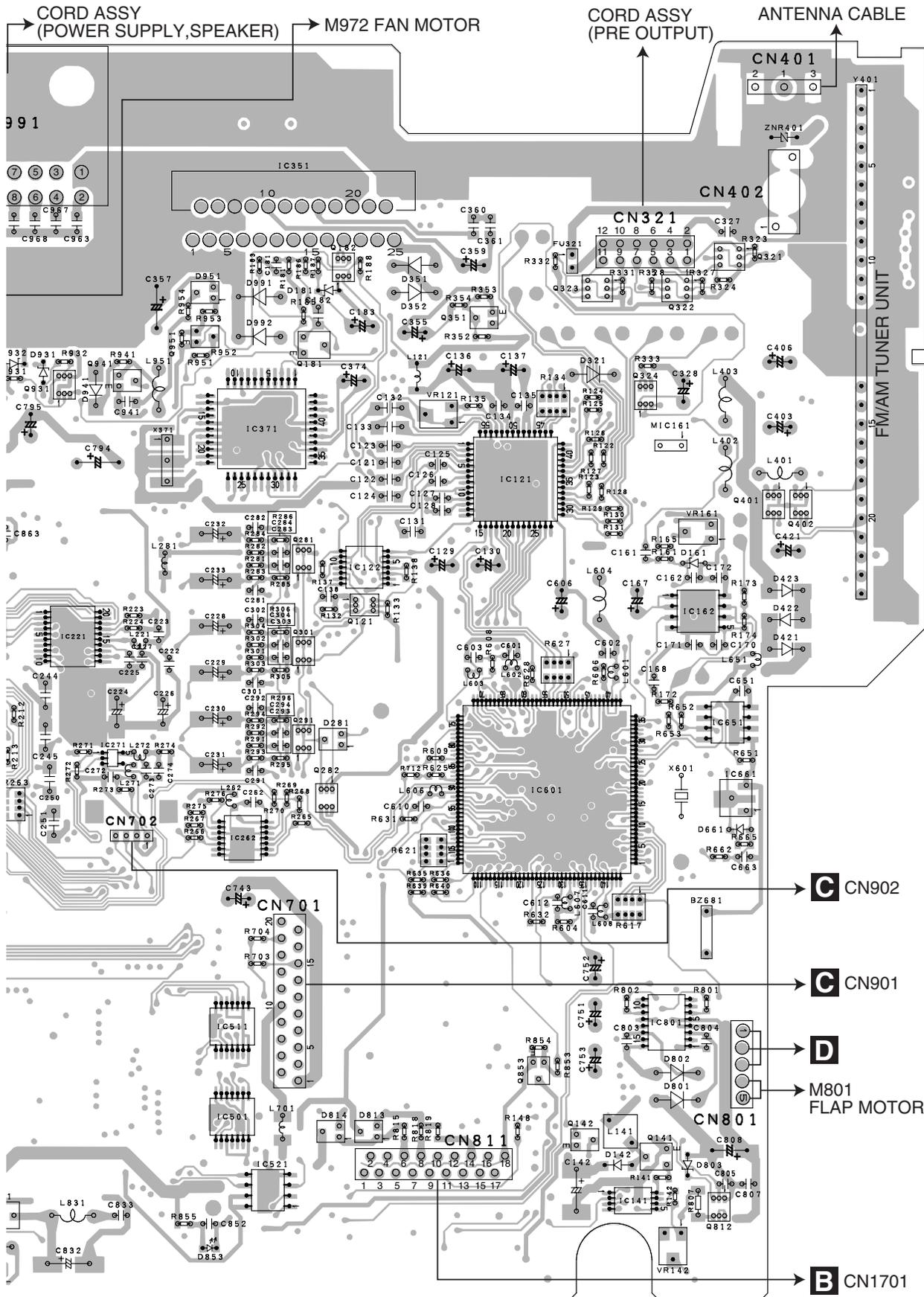
B

C

D

E

F



SIDE A

A

B

C

D

E

F

C CN902

C CN901

D M801 FLAP MOTOR

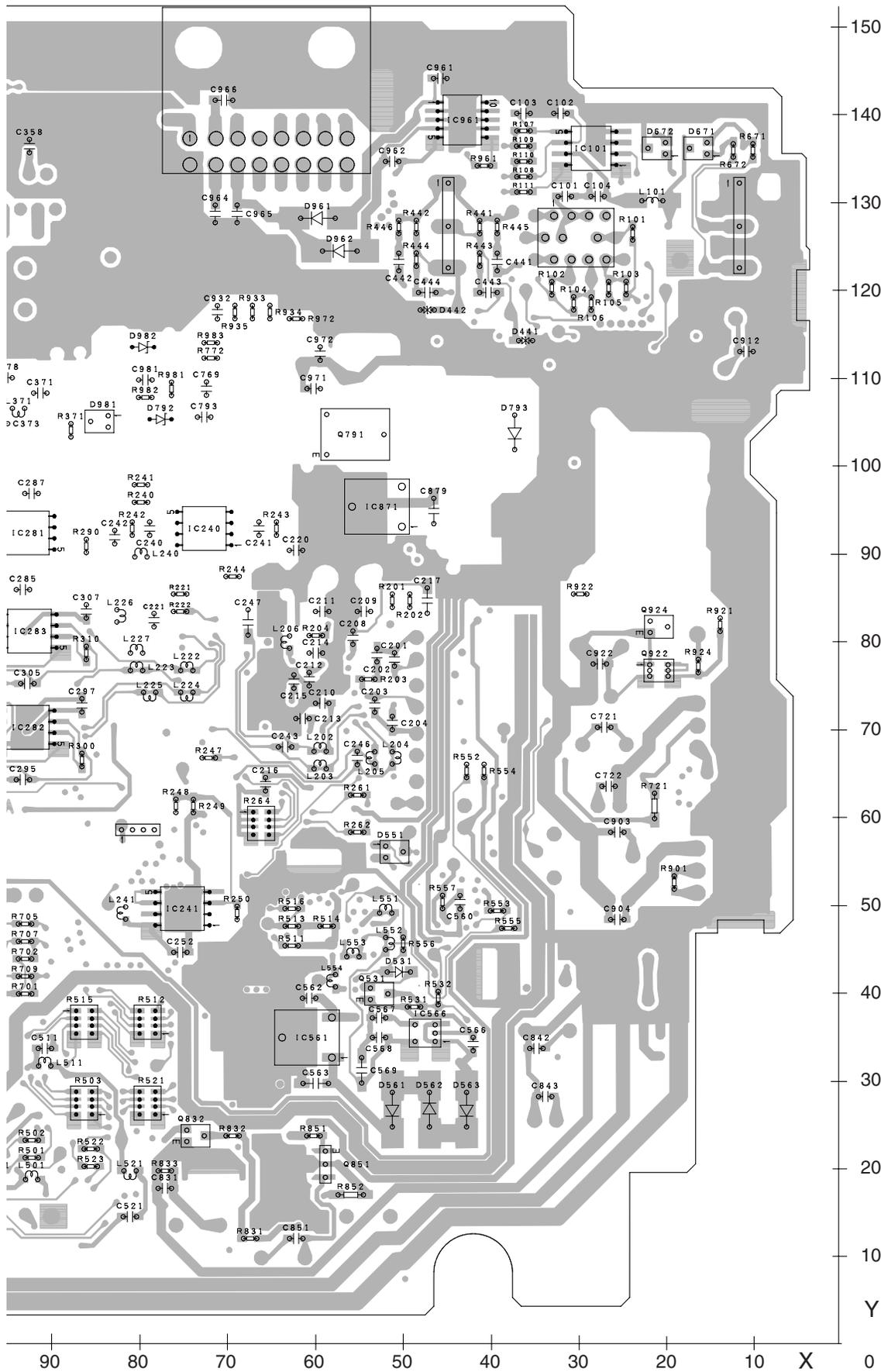
B CN1701

A

DEH-P780MP/XN/UC

SIDE B

A
B
C
D
E
F



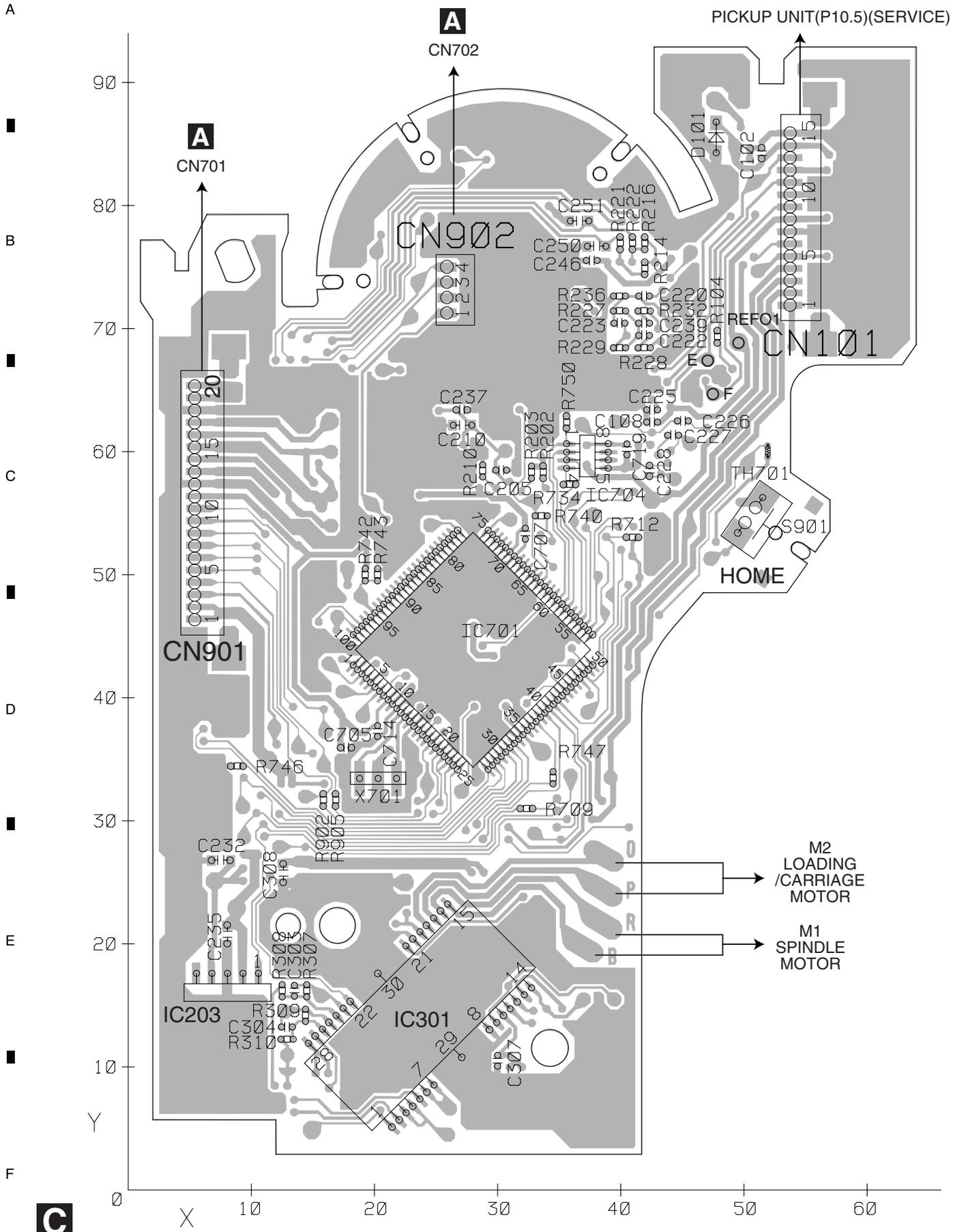
DEH-P780MP/XN/UC

A

4.3 CD CORE UNIT(COMP1D)

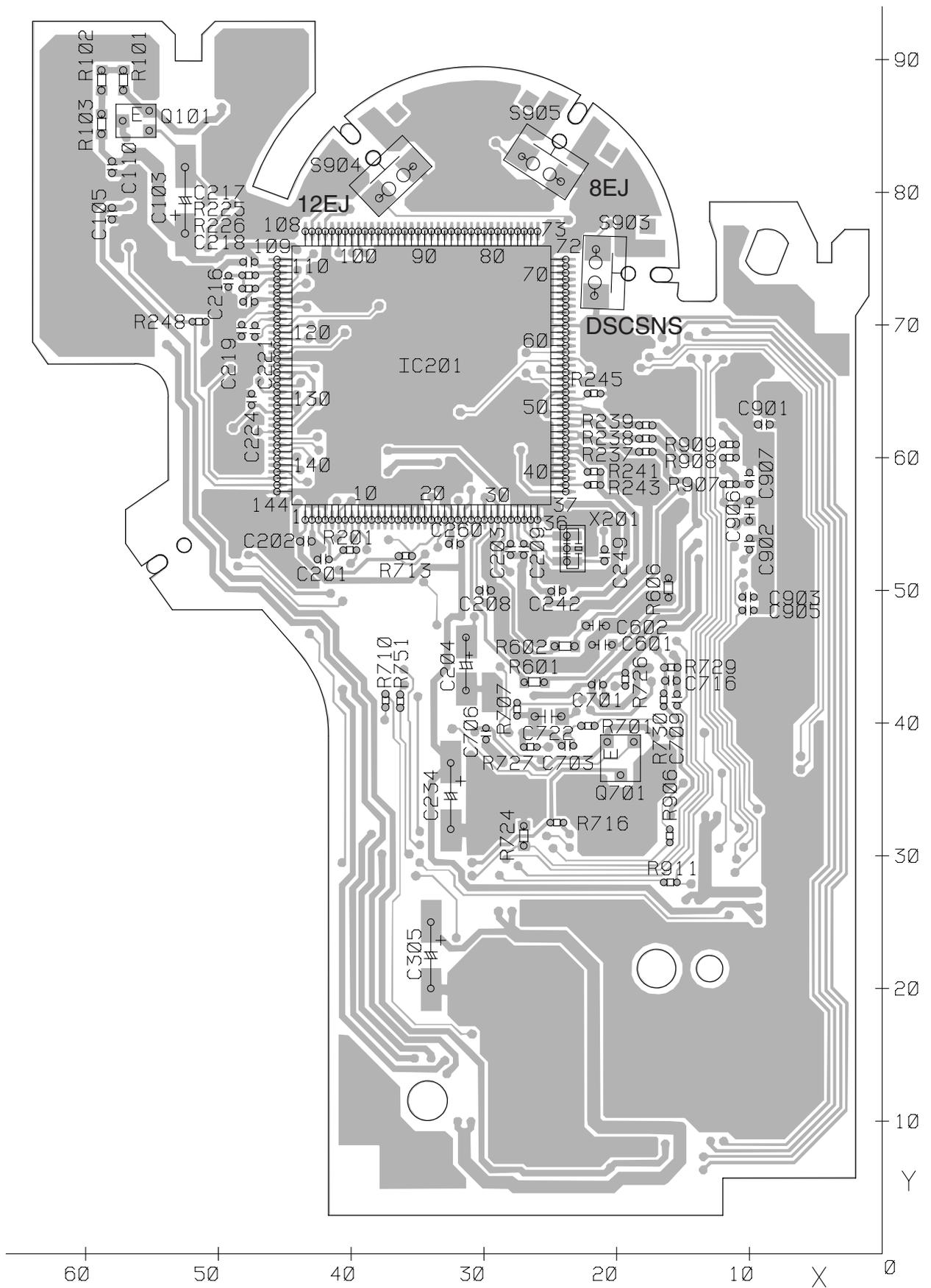
C CD CORE UNIT(COMP1D)

SIDE A



C CD CORE UNIT(COMP1D)

SIDE B



1 2 3 4

4.4 SWITCH UNIT

A

D SWITCH UNIT

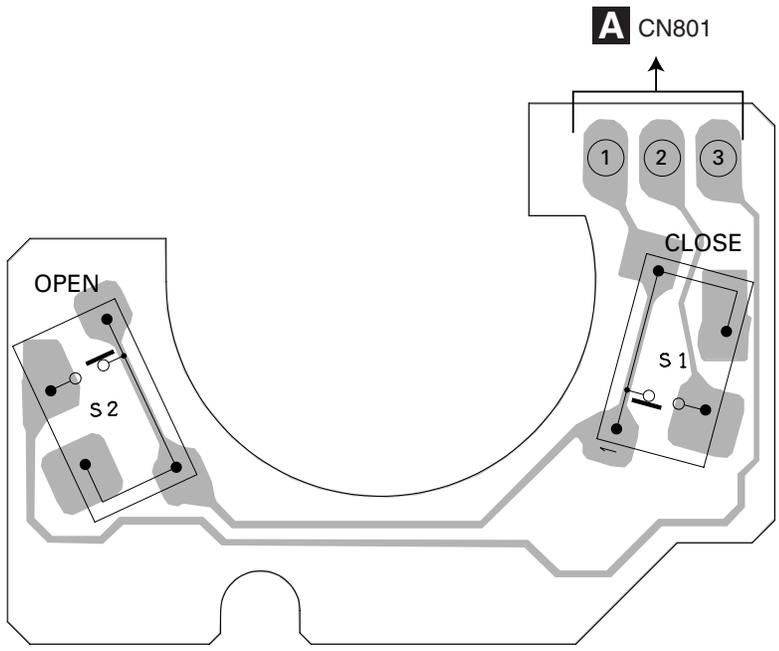
B

C

D

E

F



D

5. 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/○S○○○○J,RS1/○○S○○○○J

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

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

- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.
Unit Number : CWN1757(DEH-P780MP/XN/UC)	IC 441 (A,43,119) IC	NJM4558MD	
Unit Name : Tuner Amp Unit	IC 601 (A,130,64) IC	PEG221A	
Unit Number : CWN1758(DEH-P7800MP/XN/UC)	IC 661 (A,152,63) IC	S-80835CNUA-B8U	
Unit Name : Tuner Amp Unit	IC 751 (B,110,31) IC	NJM4558MD	
Unit Number : CWN1439(DEH-P8850MP/XN/ES)	IC 752 (B,124,44) IC	NJM4151M	
Unit Name : Tuner Amp Unit	IC 753 (B,125,31) IC	NJM4558MD	
Unit Number : CWS1389	IC 754 (B,110,48) IC	TC7S14FU	
Unit Name : Switch Unit	IC 801 (A,144,37) IC	BA6288FS	
Unit Number : CWX3328	IC 861 (A,62,95) IC	NJM2872F05	
Unit Name : CD Core Unit(COMP1D)	IC 871 (B,55,96) IC	NJM2885DL1-33	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 101 (A,19,118) Transistor	UMF23N	
Unit Name : Tuner Amp Unit	Q 281 (A,101,92) Transistor	UMH3N	
Unit Number : CWS1389	Q 282 (A,104,63) Transistor	UMD3N	
Unit Name : Switch Unit	Q 291 (A,101,70) Transistor	UMH3N	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 301 (A,101,81) Transistor	UMH3N	
Unit Name : Tuner Amp Unit	Q 321 (A,152,128) Transistor	IMH23	
Unit Number : CWS1389	Q 322 (A,145,124) Transistor	IMH23	
Unit Name : Switch Unit	Q 323 (A,136,124) Transistor	IMH23	
Unit Number : CWS1389	Q 324 (A,142,111) Transistor	UMD3N	
Unit Name : Switch Unit	Q 351 (A,122,121) Transistor	DTC124EUA	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 391 (A,36,55) Transistor	2SC4081	
Unit Name : Tuner Amp Unit	Q 601 (B,112,61) Transistor	UMD3N	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 661 (B,152,53) Transistor	2SC4081	
Unit Name : Tuner Amp Unit	Q 721 (A,15,71) Transistor	2SD2396	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 722 (A,34,69) Transistor	UMD3N	
Unit Name : Tuner Amp Unit	Q 793 (B,108,66) Transistor	2SC4081	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 794 (A,37,93) Transistor	2SC4081	
Unit Name : Tuner Amp Unit	Q 795 (A,37,87) Transistor	UMD3N	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 801 (B,148,19) Transistor	2SD1760F5	
Unit Name : Tuner Amp Unit	Q 812 (A,150,15) Transistor	UMD3N	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 831 (A,65,14) Transistor	2SB710A	
Unit Name : Tuner Amp Unit	Q 832 (B,74,24) Transistor	DTC114EU	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 841 (A,31,16) Transistor	2SD1760F5	
Unit Name : Tuner Amp Unit	Q 842 (A,35,33) Transistor	UMD3N	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 851 (B,61,21) Transistor	2SD1767	
Unit Name : Tuner Amp Unit	Q 852 (A,63,6) Transistor	UMD3N	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 853 (A,129,31) Transistor	2SC4081	
Unit Name : Tuner Amp Unit	Q 901 (A,15,54) Transistor	2SD2396	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 902 (A,31,47) Transistor	UMD3N	
Unit Name : Tuner Amp Unit	Q 911 (A,15,100) Transistor	2SD2396	
Unit Number : CWN1757(DEH-P780MP/XN/UC)	Q 912 (A,19,115) Transistor	UMD3N	
Unit Name : Tuner Amp Unit	Q 921 (A,15,84) Transistor	2SD2396	

A

MISCELLANEOUS

IC 101 (B,28,137) IC	HA12241FP
IC 121 (A,126,101) IC	PM9009A
IC 201 (A,58,74) IC	AK7732VT
IC 221 (A,73,83) IC	PCM1606EG
IC 240 (B,73,93) IC	NJM4558MD
IC 241 (B,75,50) IC	NJM4558MD
IC 261 (A,55,61) IC	TC74VHCT08AFTS1
IC 262 (A,94,59) IC	TC74VHC08FTS1
IC 271 (A,78,68) IC	TC7SH08FUS1
IC 281 (B,93,93) IC	NJM4558MD
IC 282 (B,93,71) IC	NJM4558MD
IC 283 (B,93,82) IC	NJM4558MD
IC 351 (A,100,136) IC	PAL007B
IC 371 (A,96,107) IC	PM8003A
IC 421 (B,157,85) IC	NJM2885DL1-33

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

Q 922	(B,21,77) Transistor	UMD3N	L 206	(B,63,80) Inductor	CTF1389
Q 931	(A,72,113) Transistor	UMX1N	L 208	(A,60,65) Inductor	CTF1389
Q 941	(A,80,113) Transistor	DTC114EU	L 221	(A,81,82) Inductor	CTF1379
A					
Q 951	(A,89,118) Transistor	2SA1576	L 241	(B,82,49) Inductor	CTF1389
Q 971	(A,48,112) Transistor	UMD3N	L 261	(A,53,67) Inductor	CTF1379
Q 972	(A,54,114) Transistor	2SD1859	L 262	(A,93,63) Inductor	CTF1379
D 121	(B,126,112) Diode	RB520S-30	L 271	(A,81,67) Inductor	CTF1389
D 132	(B,121,109) Diode	1SS355	L 272	(A,81,69) Inductor	CTF1379
B					
D 133	(B,121,105) Diode	RB521S-30	L 371	(B,94,107) Inductor	CTF1379
D 134	(B,121,107) Diode	RB521S-30	L 401	(A,158,102) Inductor	LAU1R0K
D 281	(A,104,70) Diode	DAN202U	L 402	(A,151,103) Ferri-Inductor	LAU100K
D 321	(A,135,114) Diode	1SS133	L 403	(A,151,111) Inductor	LAU1R0K
D 351	(A,114,127) Diode	MPG06G-6415G50	L 404	(B,164,146) Chip Coil	LCTAW4R7J2520
B					
D 352	(A,114,124) Diode	MPG06G-6415G50	L 604	(A,136,87) Ferri-Inductor	LAU100K
D 391	(A,41,66) Diode	DAN202U	L 701	(A,98,24) Inductor	LCTAW2R2J3225
D 392	(A,41,69) Diode	HZU9L(A2)	L 831	(A,73,14) Ferri-Inductor	LAU100K
D 421	(A,158,81) Diode	1SR154-400	L 841	(A,54,15) Inductor	LAU2R2K
D 422	(A,158,85) Diode	1SR154-400	L 872	(A,39,82) Inductor	CTF1617
C					
D 423	(A,158,88) Diode	1SR154-400	L 951	(A,84,112) Inductor	LAU2R2K
D 441	(B,36,115) Diode	RSB6R8S	X 201	(A,56,88)Crystal Resonator 16.934 4 MHz	CSS1052
D 442	(B,47,118) Diode	RSB6R8S	X 371	(A,85,104)Ceramic Resonator 4.096 MHz	CSS1429
D 601	(B,118,58) Diode	DAN202U	X 601	(A,146,64)Crystal Resonator 20 MHz	VSS1167
D 671	(B,16,137) Diode	DAN202U	VR121	(A,117,109)Semi-fixed 15 kΩ(B)	CCP1397
C					
D 672	(B,21,137) Diode	DAP202U	△FU321	(A,133,127) Fuse 3 A	CEK1286
D 721	(A,27,69) Diode	HZS9L(A2)	BZ681	(A,149,47) Buzzer	CPV1062
D 751	(B,132,48) Diode Network	DA204U		FM/AM Tuner Unit	CWE1952
D 752	(B,123,36) Diode Network	DA204U	M972	Fan Motor	CXM1288
D 791	(B,108,70) Diode	HZU6L(B1)			
D					
D 794	(A,39,87) Diode	HZU9L(B2)			
D 801	(A,145,27) Diode	1SS133	R 101	(B,24,127)	RS1/16S181J
D 802	(A,145,31) Diode	1SS133	R 102	(B,33,121)	RS1/16S181J
D 803	(A,147,20) Diode	HZU7L(B2)	R 103	(B,24,121)	RS1/16S223J
D 811	(B,112,10) Diode	DAN202U	R 104	(B,30,119)	RS1/16S223J
			R 105	(B,26,121)	RS1/16S102J
D					
D 812	(B,121,10) Diode	DAP202U	R 106	(B,28,119)	RS1/16S102J
D 813	(A,109,24) Diode	DAN202U	R 107	(B,36,139)	RS1/16S101J
D 814	(A,104,24) Diode	DAP202U	R 107	(B,36,139)	RS1/16S101J
D 815	(B,103,12) Diode	DAN202U	R 108	(B,36,134)	RS1/16S101J
D 816	(B,103,16) Diode	DAP202U	R 109	(B,36,137)	RS1/16S150J
			R 110	(B,36,135)	RS1/16S470J
D					
D 817	(B,103,25) Diode	DAN202U	R 111	(B,36,132)	RS1/16S102J
D 818	(B,103,21) Diode	DAP202U	R 112	(A,23,121)	RS1/16S222J
D 841	(A,33,36) Diode	HZS9L(C2)	R 112	(A,23,121)	RS1/16S222J
D 851	(A,64,10) Diode	HZS11L(A1)	R 113	(A,20,121)	RS1/16S332J
D 853	(A,90,10) LED	SML412BC5T(MN)	R 114	(A,17,121)	RS1/16S562J
			R 122	(A,137,104)	RS1/16S0R0J
E					
D 901	(A,33,56) Diode	MPG06G-6415G50	R 123	(A,135,100)	RS1/16S0R0J
D 902	(A,26,56) Diode	HZS6L(B1)	R 124	(A,135,111)	RS1/16S0R0J
D 911	(A,11,112) Diode	HZS9L(B2)	R 124	(A,135,111)	RS1/16S0R0J
D 921	(A,27,80) Diode	HZS9L(B2)	R 125	(A,135,110)	RS1/16S0R0J
D 931	(A,70,114) Diode	HZU7L(A1)	R 126	(A,136,106)	RS1/16S0R0J
			R 127	(A,135,104)	RS1/16S0R0J
E					
D 932	(A,66,115) Diode	HZU7L(C3)	R 128	(A,136,100)	RS1/16S0R0J
D 941	(A,76,112) Diode	1SR154-400	R 128	(A,136,100)	RS1/16S0R0J
D 951	(A,89,124) Diode	DAN202U	R 129	(A,138,98)	RS1/16S0R0J
D 971	(A,54,111) Diode	HZS11L(B2)	R 130	(A,138,96)	RS1/16S0R0J
D 981	(B,85,106) Diode Network	DA204U	R 131	(A,138,95)	RS1/16S0R0J
			R 134	(A,131,110)	RAB4C102J
F					
D 982	(B,80,114) Diode	HZU7L(C2)	R 135	(A,121,110)	RS1/16S103J
D 991	(A,96,123) Diode	MPG06G-6415G50	R 137	(A,103,91)	RS1/16S0R0J
D 992	(A,96,118) Diode	MPG06G-6415G50	R 137	(A,103,91)	RS1/16S0R0J
ZNR401	(A,158,142) Surge Protector	RCCA-201Q31UA-PI	R 138	(A,113,90)	RS1/16S0R0J
L 101	(B,21,131) Inductor	LCTAW2R2J2520	R 201	(B,51,85)	RS1/16S104J
			R 202	(B,49,85)	RS1/16S104J
L 121	(A,114,114) Coil	ATH1176	R 203	(B,54,76)	RS1/16S153J
L 201	(A,53,82) Inductor	CTF1379			

RESISTORS

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 204	(B,60,81)	RS1/16S222J		R 308	(B,100,80)	RS1/16S102J	
R 205	(A,56,65)	RS1/16S681J		R 309	(B,99,83)	RS1/16S101J	
R 206	(A,59,84)	RS1/16S101J		R 310	(B,86,79)	RS1/16S101J	
R 207	(A,58,65)	RS1/16S681J		R 321	(B,148,125)	RS1/16S470J	A
R 208	(A,64,83)	RAB4C101J		R 322	(B,146,122)	RS1/16S470J	
R 212	(A,66,73)	RS1/16S101J		R 323	(A,155,128)	RS1/16S223J	
R 213	(A,66,68)	RS1/16S101J		R 324	(A,151,125)	RS1/16S223J	
R 214	(A,64,68)	RS1/16S101J		R 325	(B,142,123)	RS1/16S470J	
R 221	(B,75,86)	RS1/16S103J		R 326	(B,137,123)	RS1/16S470J	
R 222	(B,75,84)	RS1/16S103J		R 327	(A,148,124)	RS1/16S223J	
R 240	(B,80,96)	RS1/16S223J		R 328	(A,142,124)	RS1/16S223J	
R 241	(B,80,98)	RS1/16S223J		R 329	(B,133,125)	RS1/16S470J	
R 242	(B,81,93)	RS1/16S153J		R 330	(B,133,131)	RS1/16S470J	
R 243	(B,64,93)	RS1/16S153J		R 331	(A,139,124)	RS1/16S223J	
R 244	(B,69,88)	RS1/16S101J		R 332	(A,131,127)	RS1/16S223J	B
R 247	(B,72,67)	RS1/16S101J		R 333	(A,142,115)	RS1/16S102J	
R 248	(B,76,62)	RS1/16S473J		R 351	(B,97,144)	RS1/16S103J	
R 249	(B,74,62)	RS1/16S473J		R 352	(A,122,118)	RS1/16S103J	
R 261	(B,55,63)	RS1/16S681J		R 353	(A,122,123)	RS1/16S103J	
R 262	(B,55,59)	RS1/16S681J		R 354	(A,119,122)	RS1/16S331J	
R 263	(A,66,63)	RAB4C123J		R 371	(B,88,105)	RS1/16S0R0J	
R 264	(B,66,60)	RAB4C223J		R 372	(B,98,107)	RS1/16S473J	
R 265	(A,101,60)	RS1/16S681J		R 373	(B,128,75)	RS1/16S104J	
R 266	(A,88,59)	RS1/16S681J		R 391	(A,36,51)	RS1/16S103J	
R 267	(A,88,60)	RS1/16S681J		R 392	(A,37,62)	RS1/16S223J	C
R 268	(A,100,63)	RS1/16S681J		R 393	(A,36,62)	RS1/16S103J	
R 269	(A,99,63)	RS1/16S681J		R 394	(A,34,62)	RS1/16S473J	
R 270	(A,97,63)	RS1/16S681J		R 405	(B,164,111)	RS1/16S681J	
R 271	(A,75,69)	RS1/16S0R0J		R 406	(B,170,127)	RS1/16S681J	
R 273	(A,80,64)	RS1/16S0R0J		R 407	(B,170,129)	RS1/16S681J	
R 274	(A,84,69)	RS1/16S0R0J		R 408	(B,170,131)	RS1/16S681J	
R 275	(A,88,62)	RS1/16S681J		R 409	(B,170,133)	RS1/16S681J	
R 276	(A,90,63)	RS1/16S681J		R 410	(B,171,137)	RS1/16S681J	
R 281	(A,95,91)	RS1/16S473J		R 441	(B,41,128)	RS1/16S223J	
R 282	(A,95,93)	RS1/16S473J		R 442	(B,48,128)	RS1/16S223J	
R 283	(A,95,90)	RS1/16S682J		R 443	(B,41,124)	RS1/16S103J	D
R 284	(A,95,94)	RS1/16S682J		R 444	(B,48,124)	RS1/16S103J	
R 285	(A,98,90)	RS1/16S682J		R 445	(B,39,128)	RS1/16S103J	
R 286	(A,98,94)	RS1/16S682J		R 446	(B,50,128)	RS1/16S103J	
R 287	(B,98,86)	RS1/16S102J		R 447	(A,37,118)	RS1/16S103J	
R 288	(B,100,91)	RS1/16S102J		R 448	(A,37,116)	RS1/16S103J	
R 289	(B,99,94)	RS1/16S101J		R 449	(A,36,120)	RS1/16S103J	
R 290	(B,86,91)	RS1/16S101J		R 450	(A,49,119)	RS1/16S103J	
R 291	(A,95,70)	RS1/16S473J		R 451	(A,42,113)	RS1/16S104J	
R 292	(A,95,71)	RS1/16S473J		R 452	(A,45,114)	RS1/16S104J	
R 293	(A,95,68)	RS1/16S682J		R 601	(B,128,84)	RS1/16S104J	
R 294	(A,95,73)	RS1/16S682J		R 603	(B,128,82)	RS1/16S104J	E
R 295	(A,98,68)	RS1/16S682J		R 604	(A,132,49)	RS1/16S103J	
R 296	(A,98,73)	RS1/16S682J		R 605	(B,128,80)	RS1/16S104J	
R 297	(B,98,65)	RS1/16S102J		R 606	(A,137,78)	RS1/16S102J	
R 298	(B,101,68)	RS1/16S102J		R 607	(B,130,70)	RS1/16S104J	
R 299	(B,99,71)	RS1/16S101J		R 608	(A,123,79)	RS1/16S104J	
R 300	(B,87,67)	RS1/16S101J		R 609	(A,117,68)	RS1/16S102J	
R 301	(A,95,80)	RS1/16S473J		R 611	(B,138,80)	RS1/16S472J	
R 302	(A,95,82)	RS1/16S473J		R 613	(B,137,82)	RS1/16S472J	
R 303	(A,95,79)	RS1/16S682J		R 615	(B,132,62)	RS1/16S104J	
R 304	(A,95,83)	RS1/16S682J		R 616	(B,133,66)	RS1/16S104J	
R 305	(A,98,79)	RS1/16S682J		R 617	(A,140,50)	RAB4C104J	F
R 306	(A,98,83)	RS1/16S682J		R 619	(B,143,63)	RS1/16S0R0J	
R 307	(B,97,76)	RS1/16S102J		R 621	(A,116,57)	RAB4C104J	

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 625	(A,117,66)	RS1/16S104J	R 804	(B,140,38)	RS1/16S563J
R 627	(A,131,79)	RAB4C681J	R 806	(B,149,39)	RS1/16S102J
R 628	(A,128,78)	RS1/16S681J	R 807	(A,148,15)	RS1/4SA102J
A R 629	(B,124,75)	RS1/16S681J	R 808	(B,149,35)	RS1/16S102J
R 631	(A,113,61)	RS1/16S104J	R 811	(B,107,23)	RS1/16S222J
R 632	(A,129,49)	RS1/16S104J	R 812	(B,109,15)	RS1/16S222J
R 633	(B,133,54)	RS1/16S104J	R 813	(B,107,25)	RS1/16S222J
R 635	(A,114,54)	RS1/16S104J	R 814	(B,112,14)	RS1/16S222J
R 639	(A,114,52)	RS1/16S104J	R 815	(A,113,24)	RS1/16S222J
R 652	(A,146,73)	RS1/16S104J	R 816	(B,115,14)	RS1/16S222J
R 661	(B,152,46)	RS1/16S222J	R 817	(B,118,14)	RS1/16S222J
R 662	(A,150,56)	RS1/16S102J	R 818	(A,115,24)	RS1/16S222J
R 664	(B,152,50)	RS1/16S473J	R 819	(A,117,24)	RS1/16S104J
R 665	(A,153,58)	RS1/16S183J	R 820	(B,104,18)	RS1/16S223J
B R 671	(B,10,137)	RS1/16S102J	R 821	(B,107,9)	RS1/16S473J
R 672	(B,12,137)	RS1/16S102J	R 831	(B,67,12)	RS1/16S472J
R 681	(B,147,47)	RS1/16S102J	R 832	(B,69,24)	RS1/16S821J
R 701	(B,93,40)	RS1/16S682J	R 833	(B,77,20)	RS1/16S222J
R 702	(B,93,44)	RS1/16S682J	R 841	(A,36,21)	RS1/16S1R0J
R 703	(A,95,44)	RS1/16S682J	R 842	(A,35,30)	RS1/4SA271J
R 704	(A,95,47)	RS1/16S682J	R 851	(B,60,24)	RS1/16S1R0J
R 705	(B,93,48)	RS1/16S221J	R 852	(B,56,17)	RS1/4SA391J
R 706	(B,105,46)	RS1/16S221J	R 853	(A,131,31)	RS1/16S562J
R 707	(B,93,46)	RS1/16S221J	R 854	(A,129,34)	RS1/16S103J
C R 708	(B,105,44)	RS1/16S221J	R 855	(A,87,13)	RS1/16S151J
R 709	(B,93,42)	RS1/16S221J	R 901	(B,19,53)	RS1/16S223J
R 710	(B,105,42)	RS1/16S681J	R 902	(A,33,47)	RS1/16S272J
R 711	(B,103,37)	RS1/16S473J	R 911	(A,19,113)	RS1/16S821J
R 712	(A,114,66)	RS1/16S104J	R 921	(B,14,82)	RS1/16S821J
R 721	(B,21,62)	RS1/4SA391J	R 931	(A,66,113)	RS1/16S104J
R 751	(B,132,36)	RS1/16S393J	R 932	(A,72,115)	RS1/16S103J
R 752	(B,127,48)	RS1/16S104J	R 933	(B,67,118)	RS1/16S473J
R 753	(B,132,38)	RS1/16S472J	R 934	(B,65,118)	RS1/16S473J
R 754	(B,132,34)	RS1/16S471J	R 935	(B,69,118)	RS1/16S472J
R 755	(B,131,45)	RS1/16S273J	R 941	(A,79,115)	RS1/16S103J
D R 757	(B,118,28)	RS1/16S104J	R 951	(A,89,116)	RS1/16S102J
R 758	(B,116,32)	RS1/16S222J	R 952	(A,86,118)	RS1/16S472J
R 759	(B,117,35)	RS1/16S471J	R 953	(A,90,121)	RS1/16S472J
R 760	(B,117,25)	RS1/16S471J	R 954	(A,87,121)	RS1/16S153J
R 761	(B,112,36)	RS1/16S473J	R 971	(A,49,116)	RS1/16S391J
R 762	(B,109,37)	RS1/16S473J	R 972	(B,62,117)	RS1/16S1R0J
R 763	(B,116,49)	RS1/16S103J	R 981	(B,76,109)	RS1/16S102J
R 764	(B,127,50)	RS1/16S103J	R 982	(B,79,108)	RS1/16S153J
R 765	(B,109,43)	RS1/16S473J	R 983	(B,72,115)	RS1/16S102J
R 766	(B,109,41)	RS1/16S473J	CAPACITORS		
R 767	(B,118,49)	RS1/16S472J	C 101	(B,31,131)	CKSRYB104K16
E R 768	(B,115,44)	RS1/16S103J	C 102	(B,32,141)	CKSRYB102K50
R 769	(B,121,48)	RS1/16S682J	C 103	(B,36,141)	CKSRYB102K50
R 770	(B,133,31)	RS1/16S333J	C 121	(A,111,103)	CKSQYB225K10
R 771	(B,133,27)	RS1/16S332J	C 122	(A,111,101)	CKSQYB225K10
R 773	(B,114,47)	RS1/16S0R0J	C 123	(A,111,105)	CKSQYB225K10
R 774	(B,125,27)	RS1/16S473J	C 124	(A,111,99)	CKSQYB225K10
R 775	(B,127,35)	RS1/16S473J	C 125	(A,117,103)	CKSRYB105K10
R 776	(B,136,24)	RS1/16S473J	C 126	(A,117,101)	CKSRYB105K10
R 777	(B,137,27)	RS1/16S473J	C 127	(A,117,99)	CKSRYB104K16
R 791	(B,104,66)	RS1/16S122J	C 128	(A,117,98)	CKSRYB104K16
R 793	(A,37,91)	RS1/16S152J	C 129	(A,117,91)	CEJQ4R7M35
F R 801	(A,149,39)	RS1/16S102J	C 130	(A,123,91)	CEJQ4R7M35
R 802	(A,139,39)	RS1/16S102J	C 131	(A,114,95)	CKSQYB225K10
R 803	(B,146,35)	RS1/16S103J	C 132	(A,111,110)	CKSYB475K10

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
C 133	(A,111,108)	CKSYB475K10		C 293	(A,98,70)	CCSRCH331J50	
C 134	(A,124,110)	CKSRYB105K10		C 294	(A,98,71)	CCSRCH331J50	
C 135	(A,127,110)	CKSRYB105K10		C 295	(B,93,65)	CKSRYB105K10	A
C 136	(A,119,114)	CEJQ470M10		C 296	(B,101,71)	CKSRYB105K10	
C 137	(A,126,114)	CEJQ470M10		C 297	(B,87,73)	CKSRYB104K16	
C 139	(B,116,108)	CKSRYB105K10		C 301	(A,95,77)	CCSRCH681J50	
C 151	(B,126,110)	CKSRYB105K10		C 302	(A,95,85)	CCSRCH681J50	
C 201	(B,51,78)	CKSRYB104K16		C 303	(A,98,80)	CCSRCH331J50	
C 202	(B,53,79)	CKSRYB682K50		C 304	(A,98,82)	CCSRCH331J50	
C 203	(B,53,73)	CKSRYB104K16		C 305	(B,93,76)	CKSRYB105K10	
C 204	(B,51,71)	CKSRYB104K16		C 306	(B,101,83)	CKSRYB105K10	
C 205	(A,48,80)	CEJQ100M16		C 307	(B,86,84)	CKSRYB104K16	
C 206	(A,48,74)	CEJQ100M16		C 321	(A,151,119)	CEJQNP100M10	
C 207	(A,48,69)	CEJQ100M16		C 322	(A,144,119)	CEJQNP100M10	B
C 208	(B,56,81)	CKSRYB104K16		C 323	(A,138,119)	CEJQNP100M10	
C 209	(B,54,84)	CCSRCH8R0D50		C 324	(A,131,119)	CEJQNP100M10	
C 210	(B,59,73)	CKSRYB104K16		C 325	(A,127,124)	CEJQNP100M10	
C 211	(B,59,84)	CCSRCH8R0D50		C 326	(A,128,130)	CEJQNP100M10	
C 212	(B,61,76)	CKSRYB104K16		C 327	(A,151,131)	CKSRYB102K50	
C 213	(B,61,72)	CKSRYB104K16		C 328	(A,146,112)	CEJQ220M16	
C 214	(B,60,79)	CCSRCH680J50		C 351	(B,126,120)	CKSQYB474K16	
C 215	(B,62,76)	CKSRYB104K16		C 352	(B,121,121)	CKSQYB474K16	
C 216	(B,66,64)	CCSRCH680J50		C 353	(B,124,120)	CKSQYB474K16	
C 217	(B,47,85)	CKSYB106K6R3		C 354	(B,119,121)	CKSQYB474K16	
C 220	(B,62,91)	CKSRYB103K50		C 355	(A,114,119)	CEJQ330M10	C
C 221	(B,78,83)	CCSRCH101J50		C 357	(A,83,122) 3 300 µF/16 V	CCH1486	
C 224	(A,79,74)	CEVW100M10		C 358	(B,93,137)	CKSRYB104K25	
C 225	(A,80,80)	CKSRYB104K16		C 359	(A,121,127)	CEHAR100M16	
C 226	(A,84,74)	CSZS100M16		C 360	(A,121,132)	CKSQYB225K10	
C 227	(A,82,80)	CKSRYB104K16		C 361	(A,123,132)	CKSQYB225K10	
C 228	(A,90,84)	CEVW100M10		C 363	(B,119,137)	CKSRYB474K10	
C 229	(A,90,78)	CEVW100M10		C 364	(B,118,132)	CKSRYB474K10	
C 230	(A,90,73)	CEVW100M10		C 365	(B,119,135)	CKSRYB474K10	
C 231	(A,90,67)	CEVW100M10		C 366	(B,118,130)	CKSRYB474K10	
C 232	(A,90,95)	CEVW100M10		C 371	(B,91,109)	CKSRYB104K16	
C 233	(A,90,89)	CEVW100M10		C 372	(B,97,109)	CKSRYB104K16	D
C 240	(B,79,93)	CCSRCH220J50		C 373	(B,96,105)	CKSRYB104K16	
C 241	(B,66,93)	CCSRCH220J50		C 374	(A,107,113)	CEAL100M16	
C 242	(B,83,92)	CKSRYB104K16		C 378	(B,95,111)	CKSRYB105K10	
C 243	(B,63,68)	CKSRYB332K50		C 401	(B,170,106)	CKSRYB103K50	
C 244	(A,70,76)	CKSYB106K6R3		C 402	(B,153,108)	CKSRYB102K50	
C 245	(A,70,71)	CKSYB106K6R3		C 403	(A,158,108)	CEJQ470M10	
C 246	(B,55,67)	CKSRYB332K50		C 404	(B,164,107)	CKSYB475K10	
C 247	(B,68,83)	CKSYB106K6R3		C 405	(B,171,139)	CKSRYB103K50	
C 250	(A,71,66)	CKSYB106K6R3		C 406	(A,158,115)	CEJQ101M10	
C 251	(A,71,60)	CKSYB106K6R3		C 408	(B,158,111)	CKSRYB102K50	E
C 252	(B,75,45)	CKSRYB104K16		C 421	(A,159,93)	CEJQ220M16	
C 261	(A,53,65)	CKSRYB104K16		C 422	(B,154,90)	CKSRYB103K50	
C 262	(A,95,63)	CKSRYB104K16		C 423	(B,153,80)	CKSYB475K10	
C 272	(A,78,66)	CCSRCH560J50		C 424	(B,132,94)	CKSRYB103K50	
C 273	(A,82,67)	CKSRYB103K50		C 441	(B,39,124)	CKSQYB225K10	
C 281	(A,95,88)	CCSRCH681J50		C 442	(B,50,124)	CKSQYB225K10	
C 282	(A,95,96)	CCSRCH681J50		C 443	(B,40,120)	CKSQYB225K10	
C 283	(A,98,91)	CCSRCH331J50		C 444	(B,47,120)	CKSQYB225K10	
C 284	(A,98,93)	CCSRCH331J50		C 445	(A,38,120)	CCSRCH101J50	
C 285	(B,93,86)	CKSRYB105K10		C 446	(A,48,119)	CCSRCH101J50	
C 286	(B,101,95)	CKSRYB105K10		C 447	(A,42,115)	CKSRYB105K10	F
C 287	(B,92,97)	CKSRYB104K16		C 448	(A,37,112)	CEVW100M10	
C 291	(A,95,67)	CCSRCH681J50		C 601	(A,126,80)	CKSRYB104K16	
C 292	(A,95,74)	CCSRCH681J50		C 602	(A,137,81)	CKSRYB104K16	

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

A	C 603	(A,121,80)	CKSRYB104K16
	C 605	(B,134,86)	CKSRYB103K50
	C 606	(A,132,87)	CEJQ4R7M35
	C 607	(B,148,65)	CCSRCH7R0D50
	C 608	(B,148,61)	CCSRCH7R0D50
	C 610	(A,115,62)	CKSRYB104K16
	C 611	(A,135,50)	CKSRYB104K16
	C 612	(A,131,51)	CKSRYB104K16
	C 613	(B,131,75)	CCSRCH331J50
	C 662	(B,152,48)	CKSRYB104K16
	C 663	(A,153,56)	CKSRYB105K10
	C 721	(B,27,71)	CKSRYB473K25
B	C 722	(B,26,64)	CKSRYB102K50
	C 723	(A,26,62)	CEJQ101M10
	C 743	(A,93,51)	CEJQ101M10
	C 751	(A,136,38)	CEJQ4R7M35
	C 752	(A,136,43)	CEJQ1R0M50
	C 753	(A,136,32)	CEJQ4R7M35
	C 754	(B,109,35)	CKSRYB104K16
	C 755	(B,116,28)	CKSRYB102K50
	C 756	(B,118,32)	CCSRCH101J50
	C 758	(B,131,27)	CKSRYB105K10
	C 759	(B,121,50)	CKSRYB104K16
C	C 760	(B,120,36)	CKSRYB104K16
	C 761	(B,125,25)	CKSRYB104K16
	C 762	(B,115,42)	CKSRYB472K50
	C 763	(B,117,46)	CKSRYB102K50
	C 764	(B,109,45)	CKSRYB104K16
	C 765	(B,131,31)	CKSRYB471K50
	C 768	(B,135,27)	CKSRYB104K16
	C 769	(B,72,109)	CKSRYB153K50
	C 791	(B,112,68)	CKSRYB103K50
	C 796	(A,41,87)	CKSRYB103K50
	C 801	(B,140,40)	CKSRYB103K50
	C 802	(B,151,29)	CKSRYB102K50
D	C 803	(A,139,34)	CCSRCH101J50
	C 804	(A,149,34)	CCSRCH101J50
	C 806	(B,153,24)	CKSRYB102K50
	C 807	(A,154,17)	CKSRYB104K16
	C 808	(A,152,21)	CEVW220M16
	C 831	(B,77,18)	CKSRYB104K16
	C 832	(A,73,8)	CEVW470M10
	C 841	(A,54,9)	CEVW470M16
	C 842	(B,35,34)	CKSRYB104K16
	C 843	(B,34,28)	CKSRYB102K50
E	C 844	(A,34,26)	CEJQ330M16
	C 851	(B,62,12)	CKSRYB473K25
	C 852	(A,90,13)	CKSRYB104K16
	C 861	(A,59,94)	CKSRYB105K6R3
	C 862	(A,59,96)	CKSRYB103K50
	C 863	(A,65,95)	CKSRYB104K16
	C 871	(A,41,72)	CKSRYB104K16
	C 873	(A,38,76)	CEVW101M6R3
	C 875	(A,36,82)	CKSRYB105K10
	C 877	(A,46,96)	CEVW101M6R3
	C 878	(A,53,97)	CKSRYB103K50
F	C 879	(B,46,95)	CKSYB475K10
	C 901	(A,24,44) 2 200 μ F/16 V	CCH1405
	C 903	(B,25,59)	CKSRYB472K50
	C 904	(B,25,49)	CKSRYB103K50

C 905	(A,25,51)	CEJQ470M10
C 911	(A,30,106)	CEJQ221M10
C 912	(B,11,114)	CKSRYB103K50
C 913	(A,11,117)	CEJQ101M10
C 921	(A,29,96) 470 μ F/16 V	CCH1325
C 922	(B,27,78)	CKSRYB103K50
C 923	(A,27,74)	CEJQ101M10
C 932	(B,71,118)	CKSRYB104K16
C 941	(A,80,111)	CKSQYB105K16
C 963	(A,74,132)	CKSQYB105K10
C 964	(B,71,129)	CKSQYB105K16
C 965	(B,69,129)	CKSQYB105K16
C 966	(B,70,142)	CKSQYB105K16
C 967	(A,71,132)	CKSQYB105K16
C 968	(A,69,132)	CKSQYB105K16
C 969	(A,66,132)	CKSQYB105K16
C 971	(B,60,109)	CKSRYB103K50
C 972	(B,59,113)	CKSRYB103K50
C 973	(A,61,113)	CEJQ100M16
C 981	(B,79,110)	CKSRYB104K16

A

Unit Number : CWN1758(DEH-P7800MP/XN/UC)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 101	(B,28,137) IC	HA12241FP
IC 121	(A,126,101) IC	PM9009A
IC 201	(A,58,74) IC	AK7732VT
IC 221	(A,73,83) IC	PCM1606EG
IC 240	(B,73,93) IC	NJM4558MD
IC 241	(B,75,50) IC	NJM4558MD
IC 261	(A,55,61) IC	TC74VHCT08AFTS1
IC 262	(A,94,59) IC	TC74VHC08FTS1
IC 271	(A,78,68) IC	TC7SH08FUS1
IC 281	(B,93,93) IC	NJM4558MD
IC 282	(B,93,71) IC	NJM4558MD
IC 283	(B,93,82) IC	NJM4558MD
IC 351	(A,100,136) IC	PAL007B
IC 371	(A,96,107) IC	PM8003A
IC 421	(B,157,85) IC	NJM2885DL1-33
IC 441	(A,43,119) IC	NJM4558MD
IC 601	(A,130,64) IC	PEG221A
IC 661	(A,152,63) IC	S-80835CNUA-B8U
IC 751	(B,110,31) IC	NJM4558MD
IC 752	(B,124,44) IC	NJM4151M
IC 753	(B,125,31) IC	NJM4558MD
IC 754	(B,110,48) IC	TC7S14FU
IC 801	(A,144,37) IC	BA6288FS
IC 861	(A,62,95) IC	NJM2872F05
IC 871	(B,55,96) IC	NJM2885DL1-33
Q 101	(A,19,118) Transistor	UMF23N
Q 281	(A,101,92) Transistor	UMH3N
Q 282	(A,104,63) Transistor	UMD3N
Q 291	(A,101,70) Transistor	UMH3N
Q 301	(A,101,81) Transistor	UMH3N
Q 321	(A,152,128) Transistor	IMH23
Q 322	(A,145,124) Transistor	IMH23
Q 323	(A,136,124) Transistor	IMH23

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>	<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
Q 324	(A,142,111) Transistor	UMD3N	D 815	(B,103,12) Diode	DAN202U		
Q 351	(A,122,121) Transistor	DTC124EUA	D 816	(B,103,16) Diode	DAP202U		
Q 391	(A,36,55) Transistor	2SC4081	D 817	(B,103,25) Diode	DAN202U	A	
Q 601	(B,112,61) Transistor	UMD3N	D 818	(B,103,21) Diode	DAP202U		
Q 661	(B,152,53) Transistor	2SC4081	D 841	(A,33,36) Diode	HZS9L(C2)		
Q 721	(A,15,71) Transistor	2SD2396	D 851	(A,64,10) Diode	HZS11L(A1)		
Q 722	(A,34,69) Transistor	UMD3N	D 853	(A,90,10) LED	SML412BC5T(MN)		
Q 793	(B,108,66) Transistor	2SC4081	D 901	(A,33,56) Diode	MPG06G-6415G50		
Q 794	(A,37,93) Transistor	2SC4081	D 902	(A,26,56) Diode	HZS6L(B1)		
Q 795	(A,37,87) Transistor	UMD3N	D 911	(A,11,112) Diode	HZS9L(B2)		
Q 801	(B,148,19) Transistor	2SD1760F5	D 921	(A,27,80) Diode	HZS9L(B2)		
Q 812	(A,150,15) Transistor	UMD3N	D 931	(A,70,114) Diode	HZU7L(A1)		
Q 831	(A,65,14) Transistor	2SB710A	D 932	(A,66,115) Diode	HZU7L(C3)		
Q 832	(B,74,24) Transistor	DTC114EU	D 941	(A,76,112) Diode	1SR154-400	B	
Q 841	(A,31,16) Transistor	2SD1760F5	D 951	(A,89,124) Diode	DAN202U		
Q 842	(A,35,33) Transistor	UMD3N	D 971	(A,54,111) Diode	HZS11L(B2)		
Q 851	(B,61,21) Transistor	2SD1767	D 981	(B,85,106) Diode Network	DA204U		
Q 852	(A,63,6) Transistor	UMD3N	D 982	(B,80,114) Diode	HZU7L(C2)		
Q 853	(A,129,31) Transistor	2SC4081	D 991	(A,96,123) Diode	MPG06G-6415G50		
Q 901	(A,15,54) Transistor	2SD2396	D 992	(A,96,118) Diode	MPG06G-6415G50		
Q 902	(A,31,47) Transistor	UMD3N	ZNR401	(A,158,142) Surge Protector	RCCA-201Q31UA-PI		
Q 911	(A,15,100) Transistor	2SD2396	L 101	(B,21,131) Inductor	LCTAW2R2J2520		
Q 912	(A,19,115) Transistor	UMD3N	L 121	(A,114,114) Coil	ATH1176		
Q 921	(A,15,84) Transistor	2SD2396	L 201	(A,53,82) Inductor	CTF1379		
Q 922	(B,21,77) Transistor	UMD3N	L 206	(B,63,80) Inductor	CTF1389	C	
Q 931	(A,72,113) Transistor	UMX1N	L 208	(A,60,65) Inductor	CTF1389		
Q 941	(A,80,113) Transistor	DTC114EU	L 221	(A,81,82) Inductor	CTF1379		
Q 951	(A,89,118) Transistor	2SA1576	L 241	(B,82,49) Inductor	CTF1389		
Q 971	(A,48,112) Transistor	UMD3N	L 261	(A,53,67) Inductor	CTF1379		
Q 972	(A,54,114) Transistor	2SD1859	L 262	(A,93,63) Inductor	CTF1379		
D 121	(B,126,112) Diode	RB520S-30	L 271	(A,81,67) Inductor	CTF1389		
D 132	(B,121,109) Diode	1SS355	L 272	(A,81,69) Inductor	CTF1379		
D 133	(B,121,105) Diode	RB521S-30	L 371	(B,94,107) Inductor	CTF1379		
D 134	(B,121,107) Diode	RB521S-30	L 401	(A,158,102) Inductor	LAU1R0K		
D 281	(A,104,70) Diode	DAN202U	L 402	(A,151,103) Ferri-Inductor	LAU100K		
D 321	(A,135,114) Diode	1SS133	L 403	(A,151,111) Inductor	LAU1R0K	D	
D 351	(A,114,127) Diode	MPG06G-6415G50	L 404	(B,164,146) Chip Coil	LCTAW4R7J2520		
D 352	(A,114,124) Diode	MPG06G-6415G50	L 604	(A,136,87) Ferri-Inductor	LAU100K		
D 391	(A,41,66) Diode	DAN202U	L 701	(A,98,24) Inductor	LCTAW2R2J3225		
D 392	(A,41,69) Diode	HZU9L(A2)	L 831	(A,73,14) Ferri-Inductor	LAU100K		
D 421	(A,158,81) Diode	1SR154-400	L 841	(A,54,15) Inductor	LAU2R2K		
D 422	(A,158,85) Diode	1SR154-400	L 872	(A,39,82) Inductor	CTF1617		
D 423	(A,158,88) Diode	1SR154-400	L 951	(A,84,112) Inductor	LAU2R2K		
D 441	(B,36,115) Diode	RSB6R8S	X 201	(A,56,88) Crystal Resonator 16.934 4 MHz	CSS1052		
D 442	(B,47,118) Diode	RSB6R8S	X 371	(A,85,104) Ceramic Resonator 4.096 MHz	CSS1429		
D 601	(B,118,58) Diode	DAN202U	X 601	(A,146,64) Crystal Resonator 20 MHz	VSS1167		
D 671	(B,16,137) Diode	DAN202U	VR121	(A,117,109) Semi-fixed 15 kΩ(B)	CCP1397	E	
D 672	(B,21,137) Diode	DAP202U	△FU321	(A,133,127) Fuse 3 A	CEK1286		
D 721	(A,27,69) Diode	HZS9L(A2)	BZ681	(A,149,47) Buzzer	CPV1062		
D 751	(B,132,48) Diode Network	DA204U		FM/AM Tuner Unit	CWE1952		
D 752	(B,123,36) Diode Network	DA204U	M972	Fan Motor	CXM1288		
D 791	(B,108,70) Diode	HZU6L(B1)					
RESISTORS							
D 794	(A,39,87) Diode	HZU9L(B2)	R 101	(B,24,127)	RS1/16S181J		
D 801	(A,145,27) Diode	1SS133	R 102	(B,33,121)	RS1/16S181J		
D 802	(A,145,31) Diode	1SS133	R 103	(B,24,121)	RS1/16S223J		
D 803	(A,147,20) Diode	HZU7L(B2)	R 104	(B,30,119)	RS1/16S223J		
D 811	(B,112,10) Diode	DAN202U	R 105	(B,26,121)	RS1/16S102J	F	
D 812	(B,121,10) Diode	DAP202U					
D 813	(A,109,24) Diode	DAN202U	R 106	(B,28,119)	RS1/16S102J		
D 814	(A,104,24) Diode	DAP202U	R 107	(B,36,139)	RS1/16S101J		

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 108	(B,36,134)	RS1/16S101J	R 284	(A,95,94)	RS1/16S682J
R 109	(B,36,137)	RS1/16S150J	R 285	(A,98,90)	RS1/16S682J
R 110	(B,36,135)	RS1/16S470J	R 286	(A,98,94)	RS1/16S682J
A					
R 111	(B,36,132)	RS1/16S102J	R 287	(B,98,86)	RS1/16S102J
R 112	(A,23,121)	RS1/16S222J	R 288	(B,100,91)	RS1/16S102J
R 113	(A,20,121)	RS1/16S332J	R 289	(B,99,94)	RS1/16S101J
R 114	(A,17,121)	RS1/16S562J	R 290	(B,86,91)	RS1/16S101J
R 122	(A,137,104)	RS1/16S0R0J	R 291	(A,95,70)	RS1/16S473J
R 123	(A,135,100)	RS1/16S0R0J	R 292	(A,95,71)	RS1/16S473J
R 124	(A,135,111)	RS1/16S0R0J	R 293	(A,95,68)	RS1/16S682J
R 125	(A,135,110)	RS1/16S0R0J	R 294	(A,95,73)	RS1/16S682J
R 126	(A,136,106)	RS1/16S0R0J	R 295	(A,98,68)	RS1/16S682J
R 127	(A,135,104)	RS1/16S0R0J	R 296	(A,98,73)	RS1/16S682J
B					
R 128	(A,136,100)	RS1/16S0R0J	R 297	(B,98,65)	RS1/16S102J
R 129	(A,138,98)	RS1/16S0R0J	R 298	(B,101,68)	RS1/16S102J
R 130	(A,138,96)	RS1/16S0R0J	R 299	(B,99,71)	RS1/16S101J
R 131	(A,138,95)	RS1/16S0R0J	R 300	(B,87,67)	RS1/16S101J
R 134	(A,131,110)	RAB4C102J	R 301	(A,95,80)	RS1/16S473J
R 135	(A,121,110)	RS1/16S103J	R 302	(A,95,82)	RS1/16S473J
R 137	(A,103,91)	RS1/16S0R0J	R 303	(A,95,79)	RS1/16S682J
R 138	(A,113,90)	RS1/16S0R0J	R 304	(A,95,83)	RS1/16S682J
R 201	(B,51,85)	RS1/16S104J	R 305	(A,98,79)	RS1/16S682J
R 202	(B,49,85)	RS1/16S104J	R 306	(A,98,83)	RS1/16S682J
C					
R 203	(B,54,76)	RS1/16S153J	R 307	(B,97,76)	RS1/16S102J
R 204	(B,60,81)	RS1/16S222J	R 308	(B,100,80)	RS1/16S102J
R 205	(A,56,65)	RS1/16S681J	R 309	(B,99,83)	RS1/16S101J
R 206	(A,59,84)	RS1/16S101J	R 310	(B,86,79)	RS1/16S101J
R 207	(A,58,65)	RS1/16S681J	R 321	(B,148,125)	RS1/16S470J
R 208	(A,64,83)	RAB4C101J	R 322	(B,146,122)	RS1/16S470J
R 212	(A,66,73)	RS1/16S101J	R 323	(A,155,128)	RS1/16S223J
R 213	(A,66,68)	RS1/16S101J	R 324	(A,151,125)	RS1/16S223J
R 214	(A,64,68)	RS1/16S101J	R 325	(B,142,123)	RS1/16S470J
R 221	(B,75,86)	RS1/16S103J	R 326	(B,137,123)	RS1/16S470J
R 222	(B,75,84)	RS1/16S103J	R 327	(A,148,124)	RS1/16S223J
R 240	(B,80,96)	RS1/16S223J	R 328	(A,142,124)	RS1/16S223J
D					
R 241	(B,80,98)	RS1/16S223J	R 329	(B,133,125)	RS1/16S470J
R 242	(B,81,93)	RS1/16S153J	R 330	(B,133,131)	RS1/16S470J
R 243	(B,64,93)	RS1/16S153J	R 331	(A,139,124)	RS1/16S223J
R 244	(B,69,88)	RS1/16S101J	R 332	(A,131,127)	RS1/16S223J
R 247	(B,72,67)	RS1/16S101J	R 333	(A,142,115)	RS1/16S102J
R 248	(B,76,62)	RS1/16S473J	R 351	(B,97,144)	RS1/16S103J
R 249	(B,74,62)	RS1/16S473J	R 352	(A,122,118)	RS1/16S103J
R 261	(B,55,63)	RS1/16S681J	R 353	(A,122,123)	RS1/16S103J
R 262	(B,55,59)	RS1/16S681J	R 354	(A,119,122)	RS1/16S331J
R 263	(A,66,63)	RAB4C123J	R 371	(B,88,105)	RS1/16S0R0J
R 264	(B,66,60)	RAB4C223J	R 372	(B,98,107)	RS1/16S473J
E					
R 265	(A,101,60)	RS1/16S681J	R 373	(B,128,75)	RS1/16S104J
R 266	(A,88,59)	RS1/16S681J	R 391	(A,36,51)	RS1/16S103J
R 267	(A,88,60)	RS1/16S681J	R 392	(A,37,62)	RS1/16S223J
R 268	(A,100,63)	RS1/16S681J	R 393	(A,36,62)	RS1/16S103J
R 269	(A,99,63)	RS1/16S681J	R 394	(A,34,62)	RS1/16S473J
R 270	(A,97,63)	RS1/16S681J	R 405	(B,164,111)	RS1/16S681J
R 271	(A,75,69)	RS1/16S0R0J	R 406	(B,170,127)	RS1/16S681J
R 273	(A,80,64)	RS1/16S0R0J	R 407	(B,170,129)	RS1/16S681J
R 274	(A,84,69)	RS1/16S0R0J	R 408	(B,170,131)	RS1/16S681J
R 275	(A,88,62)	RS1/16S681J	R 409	(B,170,133)	RS1/16S681J
R 276	(A,90,63)	RS1/16S681J	R 410	(B,171,137)	RS1/16S681J
F					
R 281	(A,95,91)	RS1/16S473J	R 441	(B,41,128)	RS1/16S223J
R 282	(A,95,93)	RS1/16S473J	R 442	(B,48,128)	RS1/16S223J
R 283	(A,95,90)	RS1/16S682J	R 443	(B,41,124)	RS1/16S103J

<u>Circuit Symbol and No.</u>		<u>Part No.</u>	<u>Circuit Symbol and No.</u>		<u>Part No.</u>
R 444	(B,48,124)	RS1/16S103J	R 758	(B,116,32)	RS1/16S222J
R 445	(B,39,128)	RS1/16S103J	R 759	(B,117,35)	RS1/16S471J
R 446	(B,50,128)	RS1/16S103J	R 760	(B,117,25)	RS1/16S471J
R 447	(A,37,118)	RS1/16S103J	R 761	(B,112,36)	RS1/16S473J
R 448	(A,37,116)	RS1/16S103J	R 762	(B,109,37)	RS1/16S473J
R 449	(A,36,120)	RS1/16S103J	R 763	(B,116,49)	RS1/16S103J
R 450	(A,49,119)	RS1/16S103J	R 764	(B,127,50)	RS1/16S103J
R 451	(A,42,113)	RS1/16S104J	R 765	(B,109,43)	RS1/16S473J
R 452	(A,45,114)	RS1/16S104J	R 766	(B,109,41)	RS1/16S473J
R 601	(B,128,84)	RS1/16S104J	R 767	(B,118,49)	RS1/16S472J
R 603	(B,128,82)	RS1/16S104J	R 768	(B,115,44)	RS1/16S103J
R 604	(A,132,49)	RS1/16S103J	R 769	(B,121,48)	RS1/16S682J
R 605	(B,128,80)	RS1/16S104J	R 770	(B,133,31)	RS1/16S333J
R 606	(A,137,78)	RS1/16S102J	R 771	(B,133,27)	RS1/16S332J
R 607	(B,130,70)	RS1/16S104J	R 773	(B,114,47)	RS1/16S0R0J
R 608	(A,123,79)	RS1/16S104J	R 774	(B,125,27)	RS1/16S473J
R 609	(A,117,68)	RS1/16S102J	R 775	(B,127,35)	RS1/16S473J
R 611	(B,138,80)	RS1/16S472J	R 776	(B,136,24)	RS1/16S473J
R 613	(B,137,82)	RS1/16S472J	R 777	(B,137,27)	RS1/16S473J
R 615	(B,132,62)	RS1/16S104J	R 791	(B,104,66)	RS1/16S122J
R 616	(B,133,66)	RS1/16S104J	R 793	(A,37,91)	RS1/16S152J
R 617	(A,140,50)	RAB4C104J	R 801	(A,149,39)	RS1/16S102J
R 619	(B,143,63)	RS1/16S0R0J	R 802	(A,139,39)	RS1/16S102J
R 621	(A,116,57)	RAB4C104J	R 803	(B,146,35)	RS1/16S103J
R 625	(A,117,66)	RS1/16S104J	R 804	(B,140,38)	RS1/16S563J
R 627	(A,131,79)	RAB4C681J	R 806	(B,149,39)	RS1/16S102J
R 628	(A,128,78)	RS1/16S681J	R 807	(A,148,15)	RS1/4SA102J
R 629	(B,124,75)	RS1/16S681J	R 808	(B,149,35)	RS1/16S102J
R 631	(A,113,61)	RS1/16S104J	R 811	(B,107,23)	RS1/16S222J
R 632	(A,129,49)	RS1/16S104J	R 812	(B,109,15)	RS1/16S222J
R 633	(B,133,54)	RS1/16S104J	R 813	(B,107,25)	RS1/16S222J
R 636	(A,117,54)	RS1/16S0R0J	R 814	(B,112,14)	RS1/16S222J
R 639	(A,114,52)	RS1/16S104J	R 815	(A,113,24)	RS1/16S222J
R 652	(A,146,73)	RS1/16S104J	R 816	(B,115,14)	RS1/16S222J
R 661	(B,152,46)	RS1/16S222J	R 817	(B,118,14)	RS1/16S222J
R 662	(A,150,56)	RS1/16S102J	R 818	(A,115,24)	RS1/16S222J
R 664	(B,152,50)	RS1/16S473J	R 819	(A,117,24)	RS1/16S104J
R 665	(A,153,58)	RS1/16S183J	R 820	(B,104,18)	RS1/16S223J
R 671	(B,10,137)	RS1/16S102J	R 821	(B,107,9)	RS1/16S473J
R 672	(B,12,137)	RS1/16S102J	R 831	(B,67,12)	RS1/16S472J
R 681	(B,147,47)	RS1/16S102J	R 832	(B,69,24)	RS1/16S821J
R 701	(B,93,40)	RS1/16S682J	R 833	(B,77,20)	RS1/16S222J
R 702	(B,93,44)	RS1/16S682J	R 841	(A,36,21)	RS1/16S1R0J
R 703	(A,95,44)	RS1/16S682J	R 842	(A,35,30)	RS1/4SA271J
R 704	(A,95,47)	RS1/16S682J	R 851	(B,60,24)	RS1/16S1R0J
R 705	(B,93,48)	RS1/16S221J	R 852	(B,56,17)	RS1/4SA391J
R 706	(B,105,46)	RS1/16S221J	R 853	(A,131,31)	RS1/16S562J
R 707	(B,93,46)	RS1/16S221J	R 854	(A,129,34)	RS1/16S103J
R 708	(B,105,44)	RS1/16S221J	R 855	(A,87,13)	RS1/16S151J
R 709	(B,93,42)	RS1/16S221J	R 901	(B,19,53)	RS1/16S223J
R 710	(B,105,42)	RS1/16S681J	R 902	(A,33,47)	RS1/16S272J
R 711	(B,103,37)	RS1/16S473J	R 911	(A,19,113)	RS1/16S821J
R 712	(A,114,66)	RS1/16S104J	R 921	(B,14,82)	RS1/16S821J
R 721	(B,21,62)	RS1/4SA391J	R 931	(A,66,113)	RS1/16S104J
R 751	(B,132,36)	RS1/16S393J	R 932	(A,72,115)	RS1/16S103J
R 752	(B,127,48)	RS1/16S104J	R 933	(B,67,118)	RS1/16S473J
R 753	(B,132,38)	RS1/16S472J	R 934	(B,65,118)	RS1/16S473J
R 754	(B,132,34)	RS1/16S471J	R 935	(B,69,118)	RS1/16S472J
R 755	(B,131,45)	RS1/16S273J	R 941	(A,79,115)	RS1/16S103J
R 757	(B,118,28)	RS1/16S104J	R 951	(A,89,116)	RS1/16S102J

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 952 (A,86,118)
R 953 (A,90,121)
R 954 (A,87,121)

RS1/16S472J
RS1/16S472J
RS1/16S153J

C 233 (A,90,89)
C 240 (B,79,93)
C 241 (B,66,93)
C 242 (B,83,92)
C 243 (B,63,68)

CEVW100M10
CCSRCH220J50
CCSRCH220J50
CKSRYB104K16
CKSRYB332K50

A

R 971 (A,49,116)
R 972 (B,62,117)
R 981 (B,76,109)
R 982 (B,79,108)
R 983 (B,72,115)

RS1/16S391J
RS1/16S1R0J
RS1/16S102J
RS1/16S153J
RS1/16S102J

C 244 (A,70,76)
C 245 (A,70,71)
C 246 (B,55,67)
C 247 (B,68,83)
C 250 (A,71,66)

CKSYB106K6R3
CKSYB106K6R3
CKSRYB332K50
CKSYB106K6R3
CKSYB106K6R3

CAPACITORS

C 101 (B,31,131)
C 102 (B,32,141)
C 103 (B,36,141)
C 121 (A,111,103)
C 122 (A,111,101)

CKSRYB104K16
CKSRYB102K50
CKSRYB102K50
CKSQYB225K10
CKSQYB225K10

C 251 (A,71,60)
C 252 (B,75,45)
C 261 (A,53,65)
C 262 (A,95,63)
C 272 (A,78,66)

CKSYB106K6R3
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CCSRCH560J50

B

C 123 (A,111,105)
C 124 (A,111,99)
C 125 (A,117,103)
C 126 (A,117,101)
C 127 (A,117,99)

CKSQYB225K10
CKSQYB225K10
CKSRYB105K10
CKSRYB105K10
CKSRYB104K16

C 273 (A,82,67)
C 281 (A,95,88)
C 282 (A,95,96)
C 283 (A,98,91)
C 284 (A,98,93)

CKSRYB103K50
CCSRCH681J50
CCSRCH681J50
CCSRCH331J50
CCSRCH331J50

C 128 (A,117,98)
C 129 (A,117,91)
C 130 (A,123,91)
C 131 (A,114,95)
C 132 (A,111,110)

CKSRYB104K16
CEJQ4R7M35
CEJQ4R7M35
CKSQYB225K10
CKSYB475K10

C 285 (B,93,86)
C 286 (B,101,95)
C 287 (B,92,97)
C 291 (A,95,67)
C 292 (A,95,74)

CKSRYB105K10
CKSRYB105K10
CKSRYB104K16
CCSRCH681J50
CCSRCH681J50

C

C 133 (A,111,108)
C 134 (A,124,110)
C 135 (A,127,110)
C 136 (A,119,114)
C 137 (A,126,114)

CKSYB475K10
CKSRYB105K10
CKSRYB105K10
CEJQ470M10
CEJQ470M10

C 293 (A,98,70)
C 294 (A,98,71)
C 295 (B,93,65)
C 296 (B,101,71)
C 297 (B,87,73)

CCSRCH331J50
CCSRCH331J50
CKSRYB105K10
CKSRYB105K10
CKSRYB104K16

C 139 (B,116,108)
C 151 (B,126,110)
C 201 (B,51,78)
C 202 (B,53,79)
C 203 (B,53,73)

CKSRYB105K10
CKSRYB105K10
CKSRYB104K16
CKSRYB682K50
CKSRYB104K16

C 301 (A,95,77)
C 302 (A,95,85)
C 303 (A,98,80)
C 304 (A,98,82)
C 305 (B,93,76)

CCSRCH681J50
CCSRCH681J50
CCSRCH331J50
CCSRCH331J50
CKSRYB105K10

D

C 204 (B,51,71)
C 205 (A,48,80)
C 206 (A,48,74)
C 207 (A,48,69)
C 208 (B,56,81)

CKSRYB104K16
CEJQ100M16
CEJQ100M16
CEJQ100M16
CKSRYB104K16

C 306 (B,101,83)
C 307 (B,86,84)
C 321 (A,151,119)
C 322 (A,144,119)
C 323 (A,138,119)

CKSRYB105K10
CKSRYB104K16
CEJQNP100M10
CEJQNP100M10
CEJQNP100M10

C 209 (B,54,84)
C 210 (B,59,73)
C 211 (B,59,84)
C 212 (B,61,76)
C 213 (B,61,72)

CCSRCH8R0D50
CKSRYB104K16
CCSRCH8R0D50
CKSRYB104K16
CKSRYB104K16

C 324 (A,131,119)
C 325 (A,127,124)
C 326 (A,128,130)
C 327 (A,151,131)
C 328 (A,146,112)

CEJQNP100M10
CEJQNP100M10
CEJQNP100M10
CKSRYB102K50
CEJQ220M16

E

C 214 (B,60,79)
C 215 (B,62,76)
C 216 (B,66,64)
C 217 (B,47,85)
C 220 (B,62,91)

CCSRCH680J50
CKSRYB104K16
CCSRCH680J50
CKSYB106K6R3
CKSRYB103K50

C 351 (B,126,120)
C 352 (B,121,121)
C 353 (B,124,120)
C 354 (B,119,121)
C 355 (A,114,119)

CKSQYB474K16
CKSQYB474K16
CKSQYB474K16
CKSQYB474K16
CEJQ330M10

C 221 (B,78,83)
C 224 (A,79,74)
C 225 (A,80,80)
C 226 (A,84,74)
C 227 (A,82,80)

CCSRCH101J50
CEVW100M10
CKSRYB104K16
CSZS100M16
CKSRYB104K16

C 357 (A,83,122) 3 300 μ F/16 V
C 358 (B,93,137)
C 359 (A,121,127)
C 360 (A,121,132)
C 361 (A,123,132)

CCH1486
CKSRYB104K25
CEHAR100M16
CKSQYB225K10
CKSQYB225K10

F

C 228 (A,90,84)
C 229 (A,90,78)
C 230 (A,90,73)
C 231 (A,90,67)
C 232 (A,90,95)

CEVW100M10
CEVW100M10
CEVW100M10
CEVW100M10
CEVW100M10

C 363 (B,119,137)
C 364 (B,118,132)
C 365 (B,119,135)
C 366 (B,118,130)
C 371 (B,91,109)

CKSRYB474K10
CKSRYB474K10
CKSRYB474K10
CKSRYB474K10
CKSRYB104K16

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

	IC 281	(B,93,93) IC	NJM4558MD	D 134	(B,121,107) Diode	RB521S-30
A	IC 282	(B,93,71) IC	NJM4558MD	D 181	(A,104,124) Diode	HZU3R9(B1)
	IC 283	(B,93,82) IC	NJM4558MD	D 281	(A,104,70) Diode	DAN202U
	IC 351	(A,100,136) IC	PAL007B	D 321	(A,135,114) Diode	1SS133
	IC 371	(A,96,107) IC	PM8003A	D 351	(A,114,127) Diode	MPG06G-6415G50
	IC 421	(B,157,85) IC	NJM2885DL1-33	D 352	(A,114,124) Diode	MPG06G-6415G50
	IC 441	(A,43,119) IC	NJM4558MD	D 391	(A,41,66) Diode	DAN202U
	IC 601	(A,130,64) IC	PEG175A	D 392	(A,41,69) Diode	HZU9L(A2)
	IC 661	(A,152,63) IC	S-80835CNUA-B8U	D 421	(A,158,81) Diode	1SR154-400
	IC 751	(B,110,31) IC	NJM4558MD	D 422	(A,158,85) Diode	1SR154-400
	IC 752	(B,124,44) IC	NJM4151M	D 423	(A,158,88) Diode	1SR154-400
	IC 753	(B,125,31) IC	NJM4558MD	D 431	(A,30,122) Diode	RSB6R8S
	IC 754	(B,110,48) IC	TC7S14FU	D 441	(B,36,115) Diode	RSB6R8S
B	IC 801	(A,144,37) IC	BA6288FS	D 442	(B,47,118) Diode	RSB6R8S
	IC 861	(A,62,95) IC	NJM2872F05	D 601	(B,118,58) Diode	DAN202U
	IC 871	(B,55,96) IC	NJM2885DL1-33	D 721	(A,27,69) Diode	HZS9L(A2)
	Q 101	(A,19,118) Transistor	UMF23N	D 751	(B,132,48) Diode Network	DA204U
	Q 181	(A,102,117) Transistor	2SC3052-12	D 752	(B,123,36) Diode Network	DA204U
	Q 182	(A,106,127) Transistor	UMD3N	D 791	(B,108,70) Diode	HZU6L(B1)
	Q 183	(B,112,90) Transistor	2SC4081	D 794	(A,39,87) Diode	HZU9L(B2)
	Q 281	(A,101,92) Transistor	UMH3N	D 801	(A,145,27) Diode	1SS133
	Q 282	(A,104,63) Transistor	UMD3N	D 802	(A,145,31) Diode	1SS133
	Q 291	(A,101,70) Transistor	UMH3N	D 803	(A,147,20) Diode	HZU7L(B2)
	Q 301	(A,101,81) Transistor	UMH3N	D 811	(B,112,10) Diode	DAN202U
C	Q 321	(A,152,128) Transistor	IMH23	D 812	(B,121,10) Diode	DAP202U
	Q 322	(A,145,124) Transistor	IMH23	D 813	(A,109,24) Diode	DAN202U
	Q 323	(A,136,124) Transistor	IMH23	D 814	(A,104,24) Diode	DAP202U
	Q 324	(A,142,111) Transistor	UMD3N	D 815	(B,103,12) Diode	DAN202U
	Q 351	(A,122,121) Transistor	DTC124EUA	D 816	(B,103,16) Diode	DAP202U
	Q 391	(A,36,55) Transistor	2SC4081	D 817	(B,103,25) Diode	DAN202U
	Q 601	(B,112,61) Transistor	UMD3N	D 818	(B,103,21) Diode	DAP202U
	Q 661	(B,152,53) Transistor	2SC4081	D 841	(A,33,36) Diode	HZS9L(C2)
	Q 721	(A,15,71) Transistor	2SD2396	D 851	(A,64,10) Diode	HZS11L(A1)
	Q 722	(A,34,69) Transistor	UMD3N	D 853	(A,90,10) LED	SML412BC5T(MN)
	Q 793	(B,108,66) Transistor	2SC4081	D 901	(A,33,56) Diode	MPG06G-6415G50
D	Q 794	(A,37,93) Transistor	2SC4081	D 902	(A,26,56) Diode	HZS6L(B1)
	Q 795	(A,37,87) Transistor	UMD3N	D 911	(A,11,112) Diode	HZS9L(B2)
	Q 801	(B,148,19) Transistor	2SD1760F5	D 921	(A,27,80) Diode	HZS9L(B2)
	Q 812	(A,150,15) Transistor	UMD3N	D 931	(A,70,114) Diode	HZU7L(A1)
	Q 831	(A,65,14) Transistor	2SB710A	D 932	(A,66,115) Diode	HZU7L(C3)
	Q 832	(B,74,24) Transistor	DTC114EU	D 941	(A,76,112) Diode	1SR154-400
	Q 841	(A,31,16) Transistor	2SD1760F5	D 951	(A,89,124) Diode	DAN202U
	Q 842	(A,35,33) Transistor	UMD3N	D 971	(A,54,111) Diode	HZS11L(B2)
	Q 851	(B,61,21) Transistor	2SD1767	D 981	(B,85,106) Diode Network	DA204U
	Q 852	(A,63,6) Transistor	UMD3N	D 982	(B,80,114) Diode	HZU7L(C2)
	Q 853	(A,129,31) Transistor	2SC4081	D 991	(A,96,123) Diode	MPG06G-6415G50
E	Q 901	(A,15,54) Transistor	2SD2396	D 992	(A,96,118) Diode	MPG06G-6415G50
	Q 902	(A,31,47) Transistor	UMD3N	ZNR401	(A,158,142) Surge Protector	RCCA-201Q31UA-PI
	Q 911	(A,15,100) Transistor	2SD2396	L 101	(B,21,131) Inductor	LC7AW2R2J2520
	Q 912	(A,19,115) Transistor	UMD3N	L 121	(A,114,114) Coil	ATH1176
	Q 921	(A,15,84) Transistor	2SD2396	L 201	(A,53,82) Inductor	CTF1379
	Q 922	(B,21,77) Transistor	UMD3N	L 206	(B,63,80) Inductor	CTF1389
	Q 931	(A,72,113) Transistor	UMX1N	L 208	(A,60,65) Inductor	CTF1389
	Q 941	(A,80,113) Transistor	DTC114EU	L 221	(A,81,82) Inductor	CTF1379
	Q 951	(A,89,118) Transistor	2SA1576	L 241	(B,82,49) Inductor	CTF1389
	Q 971	(A,48,112) Transistor	UMD3N	L 261	(A,53,67) Inductor	CTF1379
F	Q 972	(A,54,114) Transistor	2SD1859	L 262	(A,93,63) Inductor	CTF1379
	D 121	(B,126,112) Diode	RB520S-30	L 271	(A,81,67) Inductor	CTF1389
	D 132	(B,121,109) Diode	1SS355	L 272	(A,81,69) Inductor	CTF1379
	D 133	(B,121,105) Diode	RB521S-30	L 371	(B,94,107) Inductor	CTF1379

<u>Circuit Symbol and No.</u>			<u>Part No.</u>	<u>Circuit Symbol and No.</u>			<u>Part No.</u>
L 401	(A,158,102)	Inductor	LAU1R0K	R 202	(B,49,85)		RS1/16S104J
L 402	(A,151,103)	Ferri-Inductor	LAU100K	R 203	(B,54,76)		RS1/16S153J
L 403	(A,151,111)	Inductor	LAU1R0K	R 204	(B,60,81)		RS1/16S222J
L 404	(B,164,146)	Chip Coil	LCTAW4R7J2520	R 205	(A,56,65)		RS1/16S681J
L 604	(A,136,87)	Ferri-Inductor	LAU100K	R 206	(A,59,84)		RS1/16S101J
L 701	(A,98,24)	Inductor	LCTAW2R2J3225	R 207	(A,58,65)		RS1/16S681J
L 831	(A,73,14)	Ferri-Inductor	LAU100K	R 208	(A,64,83)		RAB4C101J
L 841	(A,54,15)	Inductor	LAU2R2K	R 212	(A,66,73)		RS1/16S101J
L 872	(A,39,82)	Inductor	CTF1617	R 213	(A,66,68)		RS1/16S101J
L 951	(A,84,112)	Inductor	LAU2R2K	R 214	(A,64,68)		RS1/16S101J
X 201	(A,56,88)	Crystal Resonator 16.934 4 MHz	CSS1052	R 221	(B,75,86)		RS1/16S103J
X 371	(A,85,104)	Ceramic Resonator 4.096 MHz	CSS1429	R 222	(B,75,84)		RS1/16S103J
X 601	(A,146,64)	Crystal Resonator 20 MHz	VSS1167	R 240	(B,80,96)		RS1/16S223J
VR121	(A,117,109)	Semi-fixed 15 kΩ(B)	CCP1397	R 241	(B,80,98)		RS1/16S223J
△FU321	(A,133,127)	Fuse 3 A	CEK1286	R 242	(B,81,93)		RS1/16S153J
BZ681	(A,149,47)	Buzzer	CPV1062	R 243	(B,64,93)		RS1/16S153J
	FM/AM Tuner Unit		CWE1952	R 244	(B,69,88)		RS1/16S101J
M972	Fan Motor		CXM1288	R 247	(B,72,67)		RS1/16S101J
				R 248	(B,76,62)		RS1/16S473J
				R 249	(B,74,62)		RS1/16S473J
<u>RESISTORS</u>							
R 101	(B,24,127)		RS1/16S181J	R 261	(B,55,63)		RS1/16S681J
R 102	(B,33,121)		RS1/16S181J	R 262	(B,55,59)		RS1/16S681J
R 103	(B,24,121)		RS1/16S223J	R 263	(A,66,63)		RAB4C123J
R 104	(B,30,119)		RS1/16S223J	R 264	(B,66,60)		RAB4C223J
R 105	(B,26,121)		RS1/16S102J	R 265	(A,101,60)		RS1/16S681J
R 106	(B,28,119)		RS1/16S102J	R 266	(A,88,59)		RS1/16S681J
R 107	(B,36,139)		RS1/16S101J	R 267	(A,88,60)		RS1/16S681J
R 108	(B,36,134)		RS1/16S101J	R 268	(A,100,63)		RS1/16S681J
R 109	(B,36,137)		RS1/16S150J	R 269	(A,99,63)		RS1/16S681J
R 110	(B,36,135)		RS1/16S470J	R 270	(A,97,63)		RS1/16S681J
R 111	(B,36,132)		RS1/16S102J	R 271	(A,75,69)		RS1/16S0R0J
R 112	(A,23,121)		RS1/16S222J	R 273	(A,80,64)		RS1/16S0R0J
R 113	(A,20,121)		RS1/16S332J	R 274	(A,84,69)		RS1/16S0R0J
R 114	(A,17,121)		RS1/16S562J	R 275	(A,88,62)		RS1/16S681J
R 122	(A,137,104)		RS1/16S0R0J	R 276	(A,90,63)		RS1/16S681J
R 123	(A,135,100)		RS1/16S0R0J	R 281	(A,95,91)		RS1/16S473J
R 124	(A,135,111)		RS1/16S0R0J	R 282	(A,95,93)		RS1/16S473J
R 125	(A,135,110)		RS1/16S0R0J	R 283	(A,95,90)		RS1/16S682J
R 126	(A,136,106)		RS1/16S0R0J	R 284	(A,95,94)		RS1/16S682J
R 127	(A,135,104)		RS1/16S0R0J	R 285	(A,98,90)		RS1/16S682J
R 128	(A,136,100)		RS1/16S0R0J	R 286	(A,98,94)		RS1/16S682J
R 129	(A,138,98)		RS1/16S0R0J	R 287	(B,98,86)		RS1/16S102J
R 130	(A,138,96)		RS1/16S0R0J	R 288	(B,100,91)		RS1/16S102J
R 131	(A,138,95)		RS1/16S0R0J	R 289	(B,99,94)		RS1/16S101J
R 134	(A,131,110)		RAB4C102J	R 290	(B,86,91)		RS1/16S101J
R 135	(A,121,110)		RS1/16S103J	R 291	(A,95,70)		RS1/16S473J
R 137	(A,103,91)		RS1/16S0R0J	R 292	(A,95,71)		RS1/16S473J
R 138	(A,113,90)		RS1/16S0R0J	R 293	(A,95,68)		RS1/16S682J
R 181	(A,99,127)		RS1/16S104J	R 294	(A,95,73)		RS1/16S682J
R 182	(B,108,122)		RS1/16S683J	R 295	(A,98,68)		RS1/16S682J
R 183	(A,96,127)		RS1/16S153J	R 296	(A,98,73)		RS1/16S682J
R 184	(B,113,122)		RS1/16S682J	R 297	(B,98,65)		RS1/16S102J
R 185	(A,101,121)		RS1/16S152J	R 298	(B,101,68)		RS1/16S102J
R 186	(A,101,127)		RS1/16S222J	R 299	(B,99,71)		RS1/16S101J
R 187	(A,103,127)		RS1/16S561J	R 300	(B,87,67)		RS1/16S101J
R 188	(A,108,127)		RS1/16S473J	R 301	(A,95,80)		RS1/16S473J
R 189	(B,104,94)		RS1/16S103J	R 302	(A,95,82)		RS1/16S473J
R 190	(B,108,94)		RS1/16S223J	R 303	(A,95,79)		RS1/16S682J
R 191	(B,112,94)		RS1/16S104J	R 304	(A,95,83)		RS1/16S682J
R 201	(B,51,85)		RS1/16S104J	R 305	(A,98,79)		RS1/16S682J

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

A	R 306	(A,98,83)	RS1/16S682J	R 617	(A,140,50)	RAB4C104J
	R 307	(B,97,76)	RS1/16S102J	R 619	(B,143,63)	RS1/16S0R0J
	R 308	(B,100,80)	RS1/16S102J	R 621	(A,116,57)	RAB4C104J
	R 309	(B,99,83)	RS1/16S101J	R 625	(A,117,66)	RS1/16S104J
	R 310	(B,86,79)	RS1/16S101J	R 627	(A,131,79)	RAB4C681J
■	R 321	(B,148,125)	RS1/16S470J	R 628	(A,128,78)	RS1/16S681J
	R 322	(B,146,122)	RS1/16S470J	R 629	(B,124,75)	RS1/16S681J
	R 323	(A,155,128)	RS1/16S223J	R 631	(A,113,61)	RS1/16S104J
	R 324	(A,151,125)	RS1/16S223J	R 632	(A,129,49)	RS1/16S104J
	R 325	(B,142,123)	RS1/16S470J	R 633	(B,133,54)	RS1/16S104J
B	R 326	(B,137,123)	RS1/16S470J	R 639	(A,114,52)	RS1/16S104J
	R 327	(A,148,124)	RS1/16S223J	R 652	(A,146,73)	RS1/16S104J
	R 328	(A,142,124)	RS1/16S223J	R 661	(B,152,46)	RS1/16S222J
	R 329	(B,133,125)	RS1/16S470J	R 662	(A,150,56)	RS1/16S102J
	R 330	(B,133,131)	RS1/16S470J	R 664	(B,152,50)	RS1/16S473J
■	R 331	(A,139,124)	RS1/16S223J	R 665	(A,153,58)	RS1/16S183J
	R 332	(A,131,127)	RS1/16S223J	R 681	(B,147,47)	RS1/16S102J
	R 333	(A,142,115)	RS1/16S102J	R 701	(B,93,40)	RS1/16S682J
	R 351	(B,97,144)	RS1/16S103J	R 702	(B,93,44)	RS1/16S682J
	R 352	(A,122,118)	RS1/16S103J	R 703	(A,95,44)	RS1/16S682J
C	R 353	(A,122,123)	RS1/16S103J	R 704	(A,95,47)	RS1/16S682J
	R 354	(A,119,122)	RS1/16S331J	R 705	(B,93,48)	RS1/16S221J
	R 371	(B,88,105)	RS1/16S0R0J	R 706	(B,105,46)	RS1/16S221J
	R 372	(B,98,107)	RS1/16S473J	R 707	(B,93,46)	RS1/16S221J
	R 373	(B,128,75)	RS1/16S104J	R 708	(B,105,44)	RS1/16S221J
■	R 391	(A,36,51)	RS1/16S103J	R 709	(B,93,42)	RS1/16S221J
	R 392	(A,37,62)	RS1/16S223J	R 710	(B,105,42)	RS1/16S681J
	R 393	(A,36,62)	RS1/16S103J	R 711	(B,103,37)	RS1/16S473J
	R 394	(A,34,62)	RS1/16S473J	R 712	(A,114,66)	RS1/16S104J
	R 405	(B,164,111)	RS1/16S681J	R 721	(B,21,62)	RS1/4SA391J
D	R 406	(B,170,127)	RS1/16S681J	R 751	(B,132,36)	RS1/16S393J
	R 407	(B,170,129)	RS1/16S681J	R 752	(B,127,48)	RS1/16S104J
	R 408	(B,170,131)	RS1/16S681J	R 753	(B,132,38)	RS1/16S472J
	R 409	(B,170,133)	RS1/16S681J	R 754	(B,132,34)	RS1/16S471J
	R 410	(B,171,137)	RS1/16S681J	R 755	(B,131,45)	RS1/16S273J
■	R 435	(A,32,111)	RS1/16S0R0J	R 757	(B,118,28)	RS1/16S104J
	R 436	(A,48,102)	RS1/16S0R0J	R 758	(B,116,32)	RS1/16S222J
	R 441	(B,41,128)	RS1/16S223J	R 759	(B,117,35)	RS1/16S471J
	R 442	(B,48,128)	RS1/16S223J	R 760	(B,117,25)	RS1/16S471J
	R 443	(B,41,124)	RS1/16S103J	R 761	(B,112,36)	RS1/16S473J
■	R 444	(B,48,124)	RS1/16S103J	R 762	(B,109,37)	RS1/16S473J
	R 445	(B,39,128)	RS1/16S103J	R 763	(B,116,49)	RS1/16S103J
	R 446	(B,50,128)	RS1/16S103J	R 764	(B,127,50)	RS1/16S103J
	R 447	(A,37,118)	RS1/16S103J	R 765	(B,109,43)	RS1/16S473J
	R 448	(A,37,116)	RS1/16S103J	R 766	(B,109,41)	RS1/16S473J
E	R 449	(A,36,120)	RS1/16S103J	R 767	(B,118,49)	RS1/16S472J
	R 450	(A,49,119)	RS1/16S103J	R 768	(B,115,44)	RS1/16S103J
	R 451	(A,42,113)	RS1/16S104J	R 769	(B,121,48)	RS1/16S682J
	R 452	(A,45,114)	RS1/16S104J	R 770	(B,133,31)	RS1/16S333J
	R 601	(B,128,84)	RS1/16S104J	R 771	(B,133,27)	RS1/16S332J
■	R 603	(B,128,82)	RS1/16S104J	R 773	(B,114,47)	RS1/16S0R0J
	R 605	(B,128,80)	RS1/16S104J	R 774	(B,125,27)	RS1/16S473J
	R 606	(A,137,78)	RS1/16S102J	R 775	(B,127,35)	RS1/16S473J
	R 607	(B,130,70)	RS1/16S104J	R 776	(B,136,24)	RS1/16S473J
	R 608	(A,123,79)	RS1/16S104J	R 777	(B,137,27)	RS1/16S473J
F	R 609	(A,117,68)	RS1/16S102J	R 791	(B,104,66)	RS1/16S122J
	R 611	(B,138,80)	RS1/16S472J	R 793	(A,37,91)	RS1/16S152J
	R 613	(B,137,82)	RS1/16S472J	R 801	(A,149,39)	RS1/16S102J
	R 615	(B,132,62)	RS1/16S104J	R 802	(A,139,39)	RS1/16S102J
	R 616	(B,133,66)	RS1/16S104J	R 803	(B,146,35)	RS1/16S103J

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 804	(B,140,38)	RS1/16S563J		C 132	(A,111,110)	CKSYB475K10	
R 806	(B,149,39)	RS1/16S102J		C 133	(A,111,108)	CKSYB475K10	
R 807	(A,148,15)	RS1/4SA102J		C 134	(A,124,110)	CKSRYB105K10	A
R 808	(B,149,35)	RS1/16S102J		C 135	(A,127,110)	CKSRYB105K10	
R 811	(B,107,23)	RS1/16S222J		C 136	(A,119,114)	CEJQ470M10	
				C 137	(A,126,114)	CEJQ470M10	
R 812	(B,109,15)	RS1/16S222J					
R 813	(B,107,25)	RS1/16S222J		C 139	(B,116,108)	CKSRYB105K10	
R 814	(B,112,14)	RS1/16S222J		C 151	(B,126,110)	CKSRYB105K10	
R 815	(A,113,24)	RS1/16S222J		C 181	(A,98,127)	CCSRCH681J50	
R 816	(B,115,14)	RS1/16S222J		C 182	(A,103,121)	CKSQYB225K10	
				C 183	(A,108,120)	CEJQ101M6R3	
R 817	(B,118,14)	RS1/16S222J					
R 818	(A,115,24)	RS1/16S222J		C 201	(B,51,78)	CKSRYB104K16	
R 819	(A,117,24)	RS1/16S104J		C 202	(B,53,79)	CKSRYB682K50	
R 820	(B,104,18)	RS1/16S223J		C 203	(B,53,73)	CKSRYB104K16	B
R 821	(B,107,9)	RS1/16S473J		C 204	(B,51,71)	CKSRYB104K16	
				C 205	(A,48,80)	CEJQ100M16	
R 831	(B,67,12)	RS1/16S472J					
R 832	(B,69,24)	RS1/16S821J		C 206	(A,48,74)	CEJQ100M16	
R 833	(B,77,20)	RS1/16S222J		C 207	(A,48,69)	CEJQ100M16	
R 841	(A,36,21)	RS1/16S1R0J		C 208	(B,56,81)	CKSRYB104K16	
R 842	(A,35,30)	RS1/4SA271J		C 209	(B,54,84)	CCSRCH8R0D50	
				C 210	(B,59,73)	CKSRYB104K16	
R 851	(B,60,24)	RS1/16S1R0J					
R 852	(B,56,17)	RS1/4SA391J		C 211	(B,59,84)	CCSRCH8R0D50	
R 853	(A,131,31)	RS1/16S562J		C 212	(B,61,76)	CKSRYB104K16	
R 854	(A,129,34)	RS1/16S103J		C 213	(B,61,72)	CKSRYB104K16	
R 855	(A,87,13)	RS1/16S151J		C 214	(B,60,79)	CCSRCH680J50	C
				C 215	(B,62,76)	CKSRYB104K16	
R 901	(B,19,53)	RS1/16S223J					
R 902	(A,33,47)	RS1/16S272J		C 216	(B,66,64)	CCSRCH680J50	
R 911	(A,19,113)	RS1/16S821J		C 217	(B,47,85)	CKSYB106K6R3	
R 921	(B,14,82)	RS1/16S821J		C 220	(B,62,91)	CKSRYB103K50	
R 931	(A,66,113)	RS1/16S104J		C 221	(B,78,83)	CCSRCH101J50	
				C 224	(A,79,74)	CEVW100M10	
R 932	(A,72,115)	RS1/16S103J					
R 933	(B,67,118)	RS1/16S473J		C 225	(A,80,80)	CKSRYB104K16	
R 934	(B,65,118)	RS1/16S473J		C 226	(A,84,74)	CSZS100M16	
R 935	(B,69,118)	RS1/16S472J		C 227	(A,82,80)	CKSRYB104K16	
R 941	(A,79,115)	RS1/16S103J		C 228	(A,90,84)	CEVW100M10	
				C 229	(A,90,78)	CEVW100M10	D
R 951	(A,89,116)	RS1/16S102J					
R 952	(A,86,118)	RS1/16S472J		C 230	(A,90,73)	CEVW100M10	
R 953	(A,90,121)	RS1/16S472J		C 231	(A,90,67)	CEVW100M10	
R 954	(A,87,121)	RS1/16S153J		C 232	(A,90,95)	CEVW100M10	
R 971	(A,49,116)	RS1/16S391J		C 233	(A,90,89)	CEVW100M10	
				C 240	(B,79,93)	CCSRCH220J50	
R 972	(B,62,117)	RS1/16S1R0J					
R 981	(B,76,109)	RS1/16S102J		C 241	(B,66,93)	CCSRCH220J50	
R 982	(B,79,108)	RS1/16S153J		C 242	(B,83,92)	CKSRYB104K16	
R 983	(B,72,115)	RS1/16S102J		C 243	(B,63,68)	CKSRYB332K50	
				C 244	(A,70,76)	CKSYB106K6R3	
				C 245	(A,70,71)	CKSYB106K6R3	
CAPACITORS							
C 101	(B,31,131)	CKSRYB104K16		C 246	(B,55,67)	CKSRYB332K50	E
C 102	(B,32,141)	CKSRYB102K50		C 247	(B,68,83)	CKSYB106K6R3	
C 103	(B,36,141)	CKSRYB102K50		C 250	(A,71,66)	CKSYB106K6R3	
C 121	(A,111,103)	CKSQYB225K10		C 251	(A,71,60)	CKSYB106K6R3	
C 122	(A,111,101)	CKSQYB225K10		C 252	(B,75,45)	CKSRYB104K16	
C 123	(A,111,105)	CKSQYB225K10		C 261	(A,53,65)	CKSRYB104K16	
C 124	(A,111,99)	CKSQYB225K10		C 262	(A,95,63)	CKSRYB104K16	
C 125	(A,117,103)	CKSRYB105K10		C 272	(A,78,66)	CCSRCH560J50	
C 126	(A,117,101)	CKSRYB105K10		C 273	(A,82,67)	CKSRYB103K50	
C 127	(A,117,99)	CKSRYB104K16		C 281	(A,95,88)	CCSRCH681J50	
C 128	(A,117,98)	CKSRYB104K16		C 282	(A,95,96)	CCSRCH681J50	F
C 129	(A,117,91)	CEJQ4R7M35		C 283	(A,98,91)	CCSRCH331J50	
C 130	(A,123,91)	CEJQ4R7M35		C 284	(A,98,93)	CCSRCH331J50	
C 131	(A,114,95)	CKSQYB225K10		C 285	(B,93,86)	CKSRYB105K10	

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

	C 286	(B,101,95)	CKSRYB105K10	C 445	(A,38,120)	CCSRCH101J50
	C 287	(B,92,97)	CKSRYB104K16	C 446	(A,48,119)	CCSRCH101J50
A	C 291	(A,95,67)	CCSRCH681J50	C 447	(A,42,115)	CKSRYB105K10
	C 292	(A,95,74)	CCSRCH681J50	C 448	(A,37,112)	CEVW100M10
	C 293	(A,98,70)	CCSRCH331J50	C 560	(B,43,51)	CKSRYB102K50
	C 294	(A,98,71)	CCSRCH331J50	C 601	(A,126,80)	CKSRYB104K16
	C 295	(B,93,65)	CKSRYB105K10	C 602	(A,137,81)	CKSRYB104K16
	C 296	(B,101,71)	CKSRYB105K10	C 603	(A,121,80)	CKSRYB104K16
	C 297	(B,87,73)	CKSRYB104K16	C 605	(B,134,86)	CKSRYB103K50
	C 301	(A,95,77)	CCSRCH681J50	C 606	(A,132,87)	CEJQ4R7M35
	C 302	(A,95,85)	CCSRCH681J50	C 607	(B,148,65)	CCSRCH7R0D50
	C 303	(A,98,80)	CCSRCH331J50	C 608	(B,148,61)	CCSRCH7R0D50
	C 304	(A,98,82)	CCSRCH331J50	C 610	(A,115,62)	CKSRYB104K16
B	C 305	(B,93,76)	CKSRYB105K10	C 611	(A,135,50)	CKSRYB104K16
	C 306	(B,101,83)	CKSRYB105K10	C 612	(A,131,51)	CKSRYB104K16
	C 307	(B,86,84)	CKSRYB104K16	C 613	(B,131,75)	CCSRCH331J50
	C 321	(A,151,119)	CEJQNP100M10	C 662	(B,152,48)	CKSRYB104K16
	C 322	(A,144,119)	CEJQNP100M10	C 663	(A,153,56)	CKSRYB105K10
	C 323	(A,138,119)	CEJQNP100M10	C 721	(B,27,71)	CKSRYB473K25
	C 324	(A,131,119)	CEJQNP100M10	C 722	(B,26,64)	CKSRYB102K50
	C 325	(A,127,124)	CEJQNP100M10	C 723	(A,26,62)	CEJQ101M10
	C 326	(A,128,130)	CEJQNP100M10	C 743	(A,93,51)	CEJQ101M10
	C 327	(A,151,131)	CKSRYB102K50	C 751	(A,136,38)	CEJQ4R7M35
	C 328	(A,146,112)	CEJQ220M16	C 752	(A,136,43)	CEJQ1R0M50
C	C 351	(B,126,120)	CKSQYB474K16	C 753	(A,136,32)	CEJQ4R7M35
	C 352	(B,121,121)	CKSQYB474K16	C 754	(B,109,35)	CKSRYB104K16
	C 353	(B,124,120)	CKSQYB474K16	C 755	(B,116,28)	CKSRYB102K50
	C 354	(B,119,121)	CKSQYB474K16	C 756	(B,118,32)	CCSRCH101J50
	C 355	(A,114,119)	CEJQ330M10	C 758	(B,131,27)	CKSRYB105K10
	C 357	(A,83,122) 3 300 μ F/16 V	CCH1486	C 759	(B,121,50)	CKSRYB104K16
	C 358	(B,93,137)	CKSRYB104K25	C 760	(B,120,36)	CKSRYB104K16
	C 359	(A,121,127)	CEHAR100M16	C 761	(B,125,25)	CKSRYB104K16
	C 360	(A,121,132)	CKSQYB225K10	C 762	(B,115,42)	CKSRYB472K50
	C 361	(A,123,132)	CKSQYB225K10	C 763	(B,117,46)	CKSRYB102K50
	C 363	(B,119,137)	CKSRYB474K10	C 764	(B,109,45)	CKSRYB104K16
D	C 364	(B,118,132)	CKSRYB474K10	C 765	(B,131,31)	CKSRYB471K50
	C 365	(B,119,135)	CKSRYB474K10	C 768	(B,135,27)	CKSRYB104K16
	C 366	(B,118,130)	CKSRYB474K10	C 769	(B,72,109)	CKSRYB153K50
	C 371	(B,91,109)	CKSRYB104K16	C 791	(B,112,68)	CKSRYB103K50
	C 372	(B,97,109)	CKSRYB104K16	C 796	(A,41,87)	CKSRYB103K50
	C 373	(B,96,105)	CKSRYB104K16	C 801	(B,140,40)	CKSRYB103K50
	C 374	(A,107,113)	CEAL100M16	C 802	(B,151,29)	CKSRYB102K50
	C 378	(B,95,111)	CKSRYB105K10	C 803	(A,139,34)	CCSRCH101J50
	C 401	(B,170,106)	CKSRYB103K50	C 804	(A,149,34)	CCSRCH101J50
	C 402	(B,153,108)	CKSRYB102K50	C 806	(B,153,24)	CKSRYB102K50
	C 403	(A,158,108)	CEJQ470M10	C 807	(A,154,17)	CKSRYB104K16
E	C 404	(B,164,107)	CKSYB475K10	C 808	(A,152,21)	CEVW220M16
	C 405	(B,171,139)	CKSRYB103K50	C 831	(B,77,18)	CKSRYB104K16
	C 406	(A,158,115)	CEJQ101M10	C 832	(A,73,8)	CEVW470M10
	C 408	(B,158,111)	CKSRYB102K50	C 841	(A,54,9)	CEVW470M16
	C 421	(A,159,93)	CEJQ220M16	C 842	(B,35,34)	CKSRYB104K16
	C 422	(B,154,90)	CKSRYB103K50	C 843	(B,34,28)	CKSRYB102K50
	C 423	(B,153,80)	CKSYB475K10	C 844	(A,34,26)	CEJQ330M16
	C 424	(B,132,94)	CKSRYB103K50	C 851	(B,62,12)	CKSRYB473K25
	C 432	(A,30,114)	CKSQYB105K16	C 852	(A,90,13)	CKSRYB104K16
	C 433	(A,33,115)	CKSQYB105K16	C 861	(A,59,94)	CKSRYB105K6R3
F	C 441	(B,39,124)	CKSQYB225K10	C 862	(A,59,96)	CKSRYB103K50
	C 442	(B,50,124)	CKSQYB225K10	C 863	(A,65,95)	CKSRYB104K16
	C 443	(B,40,120)	CKSQYB225K10	C 871	(A,41,72)	CKSRYB104K16
	C 444	(B,47,120)	CKSQYB225K10	C 873	(A,38,76)	CEVW101M6R3

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
C 875	(A,36,82)	CKSRYB105K10		D 1741	(A,8,9) LED	SML412BC5T(MN)	
C 877	(A,46,96)	CEVW101M6R3		D 1751	(B,39,15) Diode	HZU7R5(B2)	
C 878	(A,53,97)	CKSRYB103K50		D 1752	(B,64,16) Diode	DAP202U	
C 879	(B,46,95)	CKSYB475K10		D 1753	(B,64,20) Diode	DAN202U	
C 901	(A,24,44) 2 200 μF/16 V	CCH1405		D 1759	(B,35,15) Diode	HZU7R5(B2)	
C 903	(B,25,59)	CKSRYB472K50		D 1761	(A,102,35) Diode	1SS355	
C 904	(B,25,49)	CKSRYB103K50		L 1701	(B,119,18) Inductor	CTF1379	
C 905	(A,25,51)	CEJQ470M10		L 1702	(B,123,19) Inductor	CTF1379	
C 911	(A,30,106)	CEJQ221M10		L 1703	(B,142,22) Inductor	CTF1617	
C 912	(B,11,114)	CKSRYB103K50		L 1762	(B,143,14) Inductor	CTF1617	
C 913	(A,11,117)	CEJQ101M10		L 1861	(B,158,18) Inductor	CTF1617	
C 921	(A,29,96) 470 μF/16 V	CCH1325		L 1862	(A,111,13) Inductor	LCTC1R0K2125	
C 922	(B,27,78)	CKSRYB103K50		L 1863	(A,124,5) Inductor	LCTC1R0K2125	
C 923	(A,27,74)	CEJQ101M10		L 1931	(B,121,9) Inductor	CTF1617	
C 932	(B,71,118)	CKSRYB104K16		L 1932	(B,121,14) Chip Ferrite Bead	CTF1399	
C 941	(A,80,111)	CKSQYB105K16		L 1933	(B,148,14) Coil	ATH1167	
C 963	(A,74,132)	CKSQYB105K10		X 1761	(A,108,25) Resonator 8.0 MHz	CSS1675	
C 964	(B,71,129)	CKSQYB105K16		S 1701	(A,161,5) Push Switch	CSG1155	
C 965	(B,69,129)	CKSQYB105K16		S 1731	(A,6,26) Push Switch	CSG1155	
C 966	(B,70,142)	CKSQYB105K16		S 1732	(A,34,37) Push Switch	CSG1155	
C 967	(A,71,132)	CKSQYB105K16		S 1733	(A,49,22) Switch(MULTI-CONTROL)	CSX1065	
C 968	(A,69,132)	CKSQYB105K16		S 1734	(A,34,7) Push Switch	CSG1155	
C 969	(A,66,132)	CKSQYB105K16		S 1735	(A,64,37) Push Switch	CSG1155	
C 971	(B,60,109)	CKSRYB103K50		S 1736	(A,64,7) Push Switch	CSG1155	
C 972	(B,59,113)	CKSRYB103K50		S 1737	(A,15,26) Push Switch	CSG1155	
C 973	(A,61,113)	CEJQ100M16		S 1738	(A,5,9) Push Switch	CSG1155	
C 981	(B,79,110)	CKSRYB104K16		S 1739	(A,24,26) Push Switch	CSG1155	
					OEL Module	MXK8230	

B

Unit Number :

Unit Name : Keyboard Unit

MISCELLANEOUS

IC 1702	(B,144,29) IC	NJM2870F18	
IC 1703	(B,129,13) IC	S-818A33AUC-BGN	
IC 1761	(A,95,33) IC	TC7WT125FU	
IC 1762	(A,128,36) IC	TC7WH34FU	
IC 1763	(B,96,25) IC	PEG182A	
IC 1764	(A,120,30) IC	TC7WH32FU	
IC 1801	(A,14,34) IC	GP1UX51RK	
IC 1831	(A,155,26) IC	PD8161A	
	(DEH-P780MP/XN/UC, DEH-P8850MP/XN/ES)		
IC 1831	(A,155,26) IC	PD8162A	
	(DEH-P7800MP/XN/UC)		
IC 1832	(A,139,20) IC	PD6544A	
IC 1833	(A,96,18) IC	M5M5V216ATP-70HI	
IC 1861	(A,122,18) IC	S1D13702F00A100	
D 1701	(A,120,36) Diode	DAP202U	
D 1702	(A,118,36) Diode	DAN202U	
D 1703	(A,113,36) Diode	DAP202U	
D 1704	(A,110,36) Diode	DAN202U	
D 1732	(A,63,22) LED	SML412BC5T(MN)	
D 1733	(A,49,37) LED	SML412BC5T(MN)	
D 1734	(A,34,22) LED	SML412BC5T(MN)	
D 1735	(A,49,8) LED	SML412BC5T(MN)	
D 1736	(A,66,32) LED	SML412BC5T(MN)	
D 1737	(A,66,12) LED	SML412BC5T(MN)	
D 1738	(A,32,32) LED	SML412BC5T(MN)	
D 1739	(A,32,12) LED	SML412BC5T(MN)	
D 1740	(A,15,22) LED	SML412BC5T(MN)	

RESISTORS

R 1703	(B,117,17)	RS1/16S103J	
R 1704	(A,122,35)	RS1/16S222J	
R 1705	(A,124,36)	RS1/16S222J	
R 1706	(A,156,5)	RS1/16S333J	
R 1707	(A,113,33)	RS1/16S222J	
R 1708	(A,109,30)	RS1/16S222J	
R 1709	(A,115,36)	RS1/16S103J	
R 1733	(B,62,32)	RS1/16S102J	
R 1734	(B,33,30)	RS1/16S102J	
R 1735	(B,40,10)	RS1/16S222J	
R 1737	(B,53,25)	RS1/16S332J	
R 1738	(B,40,12)	RS1/16S103J	
R 1739	(B,64,32)	RS1/16S103J	
R 1740	(B,37,30)	RS1/16S822J	
R 1741	(B,37,29)	RS1/16S473J	
R 1742	(B,50,38)	RS1/16S181J	
R 1743	(B,49,7)	RS1/16S181J	
R 1744	(B,60,6)	RS1/16S181J	
R 1745	(B,33,7)	RS1/16S181J	
R 1746	(B,48,38)	RS1/16S151J	
R 1747	(B,48,7)	RS1/16S151J	
R 1748	(B,58,6)	RS1/16S101J	
R 1749	(B,35,7)	RS1/16S181J	
R 1750	(B,11,15)	RS1/16S271J	
R 1751	(B,10,15)	RS1/16S331J	
R 1752	(B,10,9)	RS1/16S561J	
R 1753	(B,8,9)	RS1/16S331J	
R 1761	(A,98,34)	RS1/16S473J	
R 1762	(A,96,30)	RS1/16S473J	
R 1763	(A,97,28)	RS1/16S682J	

Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

A	R 1764	(A,101,28)	RS1/16S682J
	R 1765	(A,103,31)	RS1/16S154J
	R 1766	(A,100,28)	RS1/16S392J
	R 1767	(A,98,28)	RS1/16S392J
	R 1768	(A,105,32)	RS1/16S473J
	R 1769	(B,106,21)	RAB4CQ101J
	R 1770	(B,106,30)	RAB4CQ101J
	R 1771	(A,100,32)	RS1/16S473J
	R 1772	(B,106,27)	RS1/16S101J
	R 1773	(B,105,36)	RS1/16S101J
	R 1775	(B,78,6)	RAB4CQ101J
	R 1776	(B,104,36)	RS1/16S101J
	R 1777	(A,85,36)	RAB4CQ473J
B	R 1778	(A,89,29)	RS1/16S101J
	R 1779	(A,90,34)	RS1/16S473J
	R 1780	(A,90,32)	RS1/16S101J
	R 1781	(B,98,35)	RAB4CQ101J
	R 1782	(B,98,15)	RS1/16S473J
	R 1783	(B,96,15)	RS1/16S473J
	R 1784	(B,94,15)	RS1/16S101J
	R 1785	(A,81,33)	RAB4CQ101J
	R 1786	(B,80,34)	RAB4CQ101J
	R 1787	(B,84,31)	RAB4CQ101J
	R 1789	(B,84,15)	RAB4CQ101J
C	R 1790	(B,79,16)	RS1/16S101J
	R 1791	(B,79,15)	RS1/16S101J
	R 1793	(B,80,30)	RAB4CQ101J
	R 1794	(B,84,27)	RAB4CQ101J
	R 1795	(B,80,25)	RAB4CQ101J
	R 1796	(B,80,20)	RAB4CQ101J
	R 1797	(B,84,18)	RAB4CQ101J
	R 1798	(B,78,9)	RAB4CQ101J
	R 1799	(A,127,32)	RS1/16S0R0J
	R 1804	(B,106,19)	RS1/16S101J
	R 1811	(B,18,29)	RS1/16S101J
D	R 1812	(B,23,33)	RS1/16S103J
	R 1813	(B,21,36)	RS1/16S2R2J
	R 1831	(A,128,6)	RS1/16S473J
	R 1832	(A,131,6)	RS1/16S101J
	R 1833	(A,132,10)	RS1/16S473J
	R 1834	(A,133,32)	RS1/16S473J
	R 1835	(A,153,12)	RS1/16S471J
	R 1836	(A,149,12)	RS1/16S471J
	R 1864	(A,132,16)	RS1/16S473J
	R 1865	(A,131,18)	RS1/16S473J
E	R 1866	(A,131,25)	RS1/16S101J
	R 1869	(A,112,9)	RS1/16S102J
	R 1870	(A,131,21)	RS1/16S102J
	R 1871	(A,127,28)	RS1/16S102J
	R 1872	(A,129,27)	RS1/16S102J
	R 1873	(A,131,19)	RS1/16S102J
	R 1874	(A,108,9)	RS1/16S102J
	R 1931	(B,112,15)	RS1/16S101J
	R 1932	(B,111,15)	RS1/16S101J
	R 1933	(B,108,15)	RS1/16S101J
	R 1934	(B,106,15)	RAB4CQ101J

C	1708	(B,141,29)	CKSRYB474K10
	1709	(B,147,31)	CKSRYB223K50
	1710	(B,135,14)	CSZS4R7M10
	1711	(B,150,29)	CSZS4R7M10
	1732	(A,65,22)	CKSRYB104K16
	1735	(A,33,22)	CKSRYB104K16
	1741	(A,49,39)	CKSRYB104K16
	1744	(A,49,6)	CKSRYB104K16
	1746	(A,15,19)	CKSRYB104K16
	1747	(A,10,9)	CKSRYB104K16
	1748	(B,61,25)	CKSRYB103K50
	1749	(B,33,32)	CKSRYB103K50
	1750	(A,66,31)	CKSRYB104K16
	1751	(A,66,14)	CKSRYB104K16
	1752	(A,32,31)	CKSRYB104K16
	1753	(A,32,14)	CKSRYB104K16
	1761	(A,96,36)	CKSRYB104K16
	1762	(A,99,36)	CKSRYB104K16
	1763	(A,100,34)	CKSRYB473K25
	1764	(A,134,37)	CKSRYB104K16
	1765	(B,102,36)	CKSRYB103K50
	1766	(B,139,15)	CKSRYB104K16
	1767	(B,88,17)	CKSRYB104K16
	1768	(B,133,10)	CKSRYB103K50
	1769	(B,138,10)	CSZS4R7M10
	1770	(A,125,33)	CKSRYB104K16
	1801	(B,20,32)	CSZS100M16
	1831	(A,147,25)	CKSRYB104K16
	1832	(A,95,9)	CKSRYB104K16
	1833	(B,160,39)	CKSRYB104K16
	1834	(A,154,14)	CCSRCH100D50
	1835	(B,138,12)	CCSRCH100D50
	1862	(B,158,15)	CKSRYB103K50
	1863	(B,160,8)	CSZS4R7M10
	1864	(A,113,13)	CKSRYB104K16
	1865	(A,131,14)	CKSRYB473K25
	1867	(A,116,26)	CKSRYB104K16
	1868	(A,131,24)	CKSRYB104K16
	1869	(A,128,10)	CKSRYB104K16
	1870	(A,131,12)	CKSRYB104K16
	1871	(A,125,28)	CCSRCH100D50
	1872	(A,129,28)	CCSRCH100D50
	1873	(A,131,22)	CCSRCH100D50
	1874	(A,108,13)	CKSYB106K10
	1932	(B,117,10)	CKSRYB103K50
	1933	(B,116,12)	CKSRYB104K16
	1936	(B,115,14)	CKSRYB104K16
	1937	(B,92,10)	CKSRYB104K16
	1939	(B,153,13)	CKSYB106K10
	1941	(B,130,6)	CKSYB106K10

C**Unit Number : CWX3328****Unit Name : CD Core Unit(COMP1D)****MISCELLANEOUS**

IC 201	(B,39,70)	IC	UPD63763CGJ
IC 203	(A,12,16)	IC	NJM2886DL3-33
IC 301	(A,28,18)	IC	BA5835FP

CAPACITORS

C 1707	(B,128,19)	CKSRYB474K10
--------	------------	--------------

<u>Circuit Symbol and No.</u>		<u>Part No.</u>
IC 701	(A,32,48) IC	PE5552A
Q 101	(B,60,89) Transistor	2SA1577
Q 701	(B,24,41) Transistor	UN2111
X 701	(A,24,37) Ceramic Resonator 4.000 MHz	CSS1652
S 901	(A,57,57) Switch(HOME)	CSN1067
S 903	(B,23,78) Switch(DSCSNS)	CSN1067
S 904	(B,42,87) Switch(12EJ)	CSN1068
S 905	(B,28,88) Switch(8EJ)	CSN1068

RESISTORS

R 101	(B,61,92)	RS1/10SR2R4J
R 102	(B,63,92)	RS1/10SR2R4J
R 103	(B,63,89)	RS1/10SR2R7J
R 104	(A,52,73)	RS1/16SS102J
R 201	(B,44,57)	RS1/16SS102J
R 202	(A,38,62)	RS1/16SS473J
R 203	(A,37,62)	RS1/16SS473J
R 210	(A,33,62)	RS1/16SS0R0J
R 214	(A,46,79)	RS1/16SS472J
R 216	(A,46,81)	RS1/16SS472J
R 221	(A,44,81)	RS1/16SS103J
R 222	(A,45,81)	RS1/16SS103J
R 225	(B,52,78)	RS1/16SS103J
R 226	(B,52,77)	RS1/16SS393J
R 227	(A,44,75)	RS1/16SS562J
R 228	(A,46,72)	RS1/16SS122J
R 229	(A,44,72)	RS1/16SS472J
R 232	(A,46,75)	RS1/16SS122J
R 237	(B,22,64)	RS1/16SS221J
R 238	(B,22,65)	RS1/16SS221J
R 239	(B,22,66)	RS1/16SS221J
R 241	(B,26,63)	RS1/16SS333J
R 243	(B,26,62)	RS1/16SS333J
R 245	(B,26,69)	RS1/16SS333J
R 248	(B,55,74)	RS1/16SS105J
R 307	(A,19,20)	RS1/16SS183J
R 308	(A,17,20)	RS1/16SS183J
R 309	(A,18,18)	RS1/16SS183J
R 310	(A,17,16)	RS1/16SS183J
R 701	(B,26,44)	RS1/16SS221J
R 707	(B,32,45)	RS1/16SS473J
R 709	(A,36,35)	RS1/16SS222J
R 710	(B,41,46)	RS1/16SS102J
R 712	(A,45,57)	RS1/16SS222J
R 713	(B,40,57)	RS1/16SS222J
R 716	(B,29,37)	RS1/16SS472J
R 724	(B,31,36)	RS1/16S473J
R 726	(B,23,47)	RS1/16SS103J
R 727	(B,31,42)	RS1/16SS473J
R 729	(B,20,48)	RS1/16SS223J
R 730	(B,20,46)	RS1/16SS473J
R 740	(A,38,59)	RS1/16SS222J
R 746	(A,13,38)	RS1/16SS104J
R 750	(A,40,66)	RS1/16SS473J
R 751	(B,40,46)	RS1/16SS102J
R 902	(A,20,36)	RS1/16SS221J
R 905	(A,21,36)	RS1/16SS221J
R 906	(B,20,36)	RS1/16SS221J
R 909	(B,16,65)	RS1/16SS0R0J

<u>Circuit Symbol and No.</u>		<u>Part No.</u>
CAPACITORS		
C 103	(B,57,83)	CEVW101M16
C 108	(A,47,66)	CKSSYB104K10
C 201	(B,46,56)	CKSSYB102K50
C 202	(B,47,58)	CKSSYB104K10
C 205	(A,34,63)	CKSSYB104K10
C 208	(B,34,54)	CKSSYB104K10
C 209	(B,31,57)	CKSSYB104K10
C 210	(A,31,66)	CKSRYB105K10
C 216	(B,53,77)	CKSSYB332K50
C 217	(B,52,79)	CKSSYB104K10
C 218	(B,52,76)	CKSSYB473K10
C 219	(B,52,74)	CKSSYB104K10
C 220	(A,46,77)	CKSSYB182K50
C 221	(B,51,74)	CKSSYB104K10
C 222	(A,46,73)	CCSSCH560J50
C 223	(A,44,74)	CCSSCH4R0C50
C 224	(B,52,68)	CKSSYB104K10
C 225	(A,47,67)	CKSSYB103K16
C 226	(A,49,67)	CCSSCH680J50
C 227	(A,48,65)	CCSSCH470J50
C 228	(A,46,62)	CKSSYB103K16
C 232	(A,12,31)	CKSRYB105K10
C 237	(A,31,67)	CKSSYB104K10
C 239	(A,46,74)	CCSSCH220J50
C 246	(A,42,80)	CKSSYB104K10
C 249	(B,25,57)	CKSSYB221K50
C 250	(A,42,81)	CKSRYB102K50
C 251	(A,41,83)	CKSRYB102K50
C 303	(A,18,20)	CKSSYB472K25
C 304	(A,17,17)	CKSSYB103K16
C 307	(A,34,15)	CKSSYB104K10
C 308	(A,17,30)	CKSRYB105K10
C 701	(B,25,47)	CKSSYB104K10
C 703	(B,28,42)	CKSSYB103K16
C 706	(B,34,43)	CKSSYB104K10
C 707	(A,36,57)	CKSSYB104K10
C 714	(A,24,41)	CKSSYB104K10
C 722	(B,29,45)	CKSQYB475K6R3
C 903	(B,14,54)	CKSSYB471K50

D

Unit Number : CWS1389

Unit Name : Switch Unit

S 1	Switch(CLOSE)	CSN1051
S 2	Switch(OPEN)	CSN1052

Miscellaneous Parts List

M 1	Pickup Unit(P10.5)(Service)	CXX1942
M 2	Motor Unit(SPIINDLE)	CXC6742
M 801	Motor Unit(LOADING/CARRIAGE)	CXC4026
	Motor Unit(FLAP)	XXA7400

6. ADJUSTMENT

6.1 CD ADJUSTMENT

A

1) Cautions on adjustments

• In this product the single voltage (3.3V) is used for the regulator. The reference voltage is the REFO1 (1.65V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.

b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.

c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

• Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.

• For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.

• In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.

• The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.

• The load and eject operation is not guaranteed with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

2) Test mode

This mode is used to adjust the CD mechanism module.

• To enter the test mode.

While pressing the EQ and CLOCK keys at the same time, reset.

• To exit from the test mode.

Turn off the ACC and back up.

Notes:

a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.

b. If you have pressed the (→) key or (←) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.

c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.

d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.

e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0dB, and the auto-adjustment values are reset to the default settings.

B

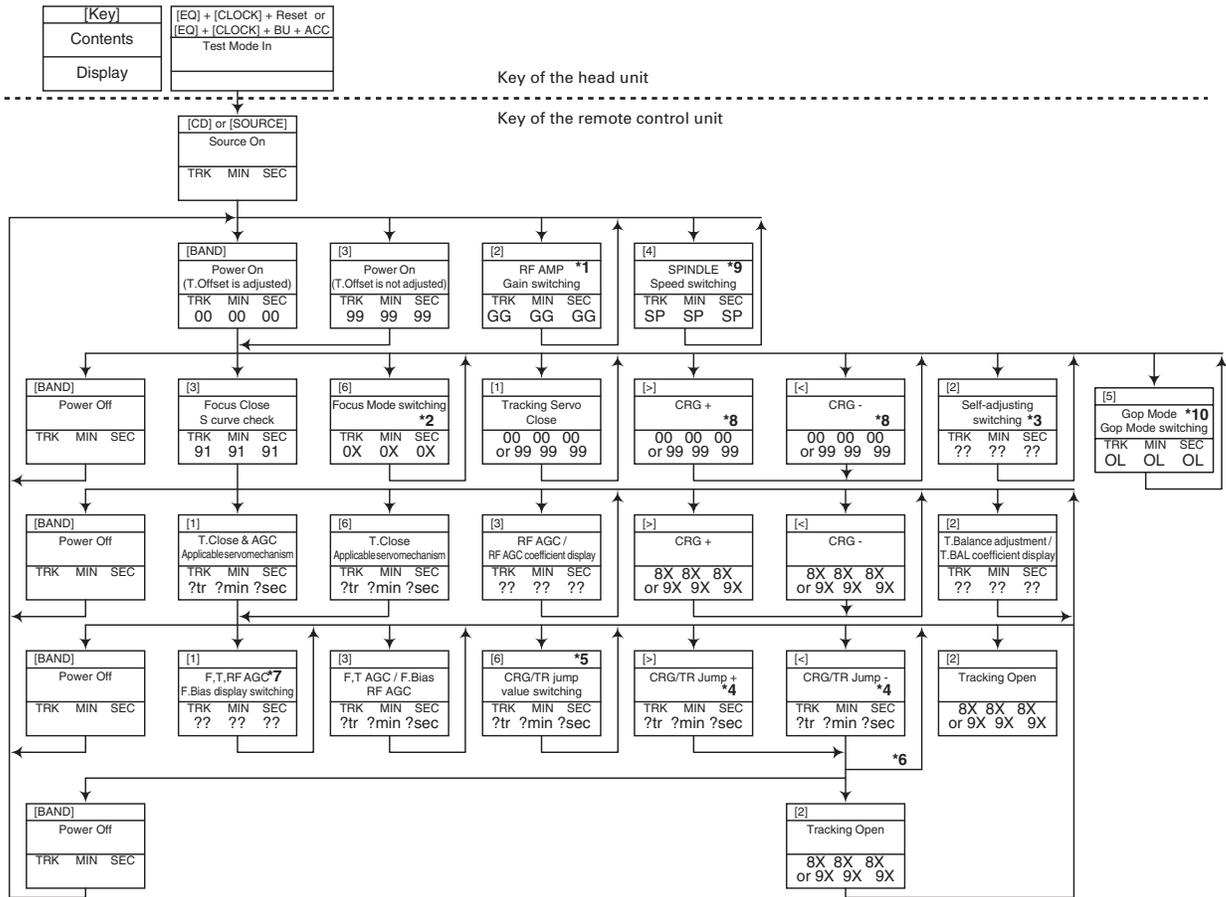
C

D

E

F

Flow Chart



- *1)

TRK	MIN	SEC	→	+ 6 dB	→	+ 12 dB
				TRK06MIN06SEC06		TRK12MIN12SEC12
- *2) Focus Close → S Curve check setting → F EQ measurement setting

TRK00MIN00SEC00	TRK01MIN01SEC01	TRK02MIN02SEC02
(TRK99MIN99SEC99)		
- *3) F.Offset Display → RF.Offset → T.Offset Display → Switch to the order of the original display
- *4) 1TR/4TR/10TR/32TR/100TR
- *5) Single → 4TR → 10TR → 32TR → 100TR → CRG Move
9x(8x):91(81) 92(82) 93(83) 94(84) 95(85) 96(86)
- *6) Only at the time of CRG move, 100TR jump
- *7) TRK/MIN/SEC → F.AGC → T.AGC Gain → F.Bias → RF AGC
- *8) CRG motor voltage = 2 [V]
- *9)

TRK	MIN	SEC	→	2X	→	1X
				TRK22MIN22SEC22		TRK11MIN11SEC11
- *10)

TRK	MIN	SEC	→	FORCUS	→	TRACKING
				TRK70MIN70SEC70		TRK71MIN71SEC71

• As for the double speed (2x), audio output cannot be supported

- *1) • After the [Eject] key is pressed keys other than the [Eject] key should not be pressed, until disc ejection is complete.
- When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of TR jump other than to 100TR, the function shall continue to be processed even if the TR jump key is released. As for the CRG Move and 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the jump mode is reset to the Single TR (91) while the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.

[Key]	Operation Test Mode
[BAND]	Power On/Off
[>]	CRG + / TR Jump + (Direction of the external surface)
[<]	CRG - / TR Jump - (Direction of the internal surface)
[1]	T. CLS & AGC & Applicable servomechanism / AGC,AGC display setting
[2]	RF Gain switching / Offset adjustment display / T.Balance adjustment / T. Open
[3]	F. Close,S Curve / Rough Servo and RF AGC / F,T,RF AGC
[4]	SPDL 1X/2X switching As for the double speed(2x), audio output cannot be supported.
[5]	Error Rate measurement ON : ERR 30Counts Start BER display data[%]
[6]	F. Mode switching / Tracking Close / CRG•TR Jump Switching

6.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



• Note :

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose :

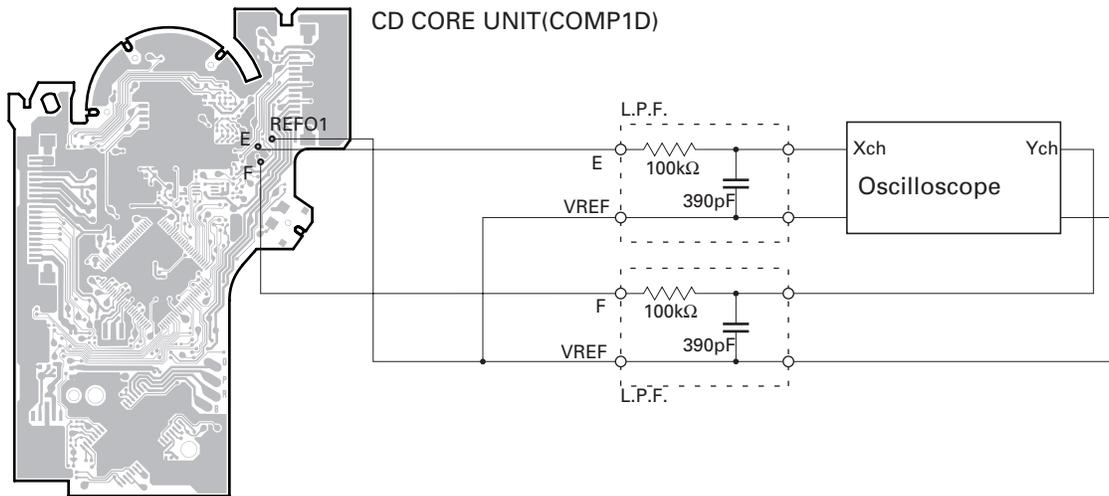
To check that the grating is within an acceptable range when the PU unit is changed.

• Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

• Method :

- | | |
|-----------------------|----------------------------|
| • Measuring Equipment | • Oscilloscope, Two L.P.F. |
| • Measuring Points | • E, F, REFO1 |
| • Disc | • TCD-782 |
| • Mode | • TEST MODE |



• Checking Procedure

1. In test mode, load the disc and switch the 3V regulator on.
2. Using the → and ← buttons, move the PU unit to the innermost track.
3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

• Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

• Hint

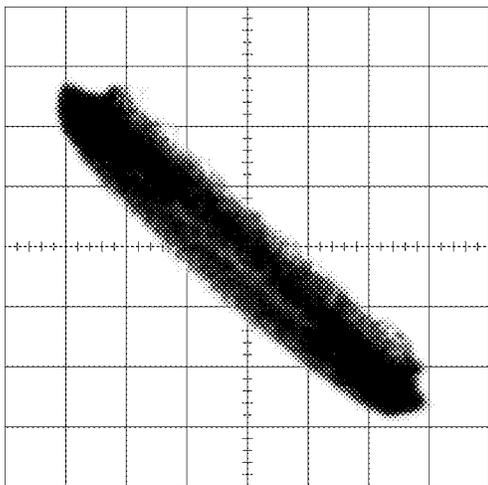
Reloading the disc changes the clamp position and may decrease the "wobble".

Grating waveform

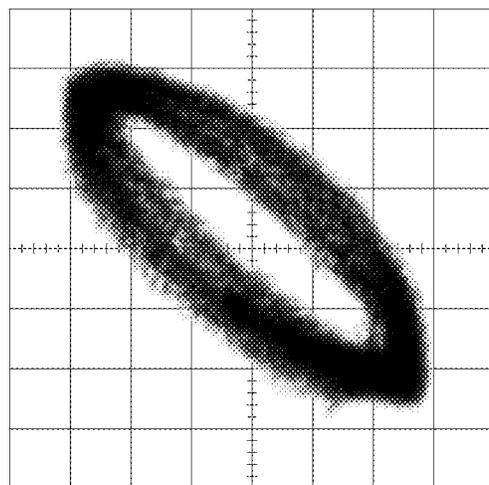
Ech → Xch 20mV/div, AC

Fch → Ych 20mV/div, AC

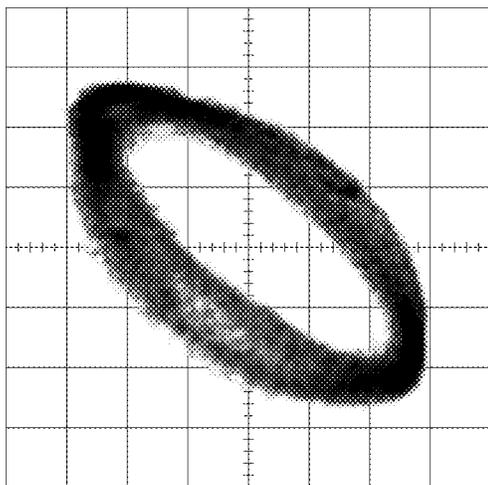
0°



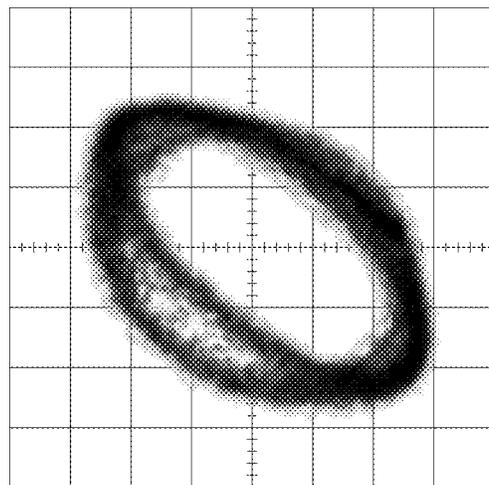
30°



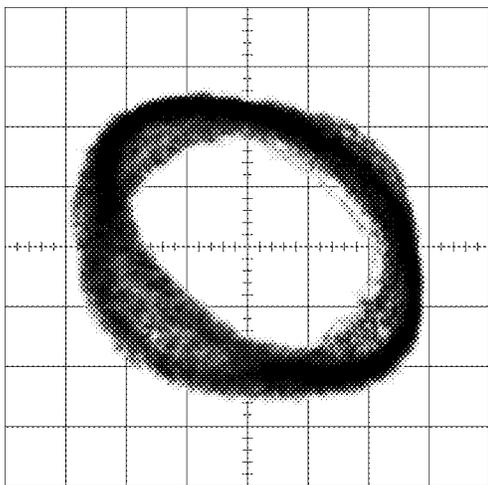
45°



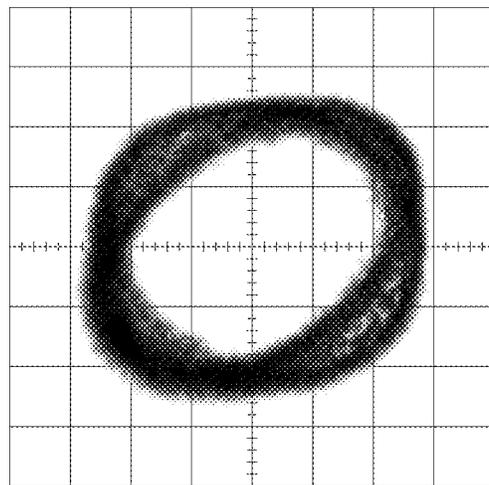
60°



75°



90°



A
B
C
D
E
F

6.3 ERROR MODE

● Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

(1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx

(2) Error Code List

Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG SERVO LSI Com- munication Error	CRG can't be moved to inner diameter. CRG can't be moved from inner diameter. → Failure on home switch or CRG move mechanism. Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available. → Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG Subcode NG	Spindle not locked. Sub-code is strange (not readable). → Failure on spindle, stains or damages on disc, or excessive vibrations. A disc not containing CD-R data is found. Turned over disc are found, though rarely. CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost. → Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address. → CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track. (CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON. → Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted. → Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

6.4 SYSTEM MICROCOMPUTER TEST PROGRAM



● PCL Output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the TESTIN IC601(Pin 126) terminal to H.

The clock signal is output from the PCL terminal IC601(Pin 62).

The frequency of the clock signal is 625.000 kHz that is one 32th of the fundamental frequency.

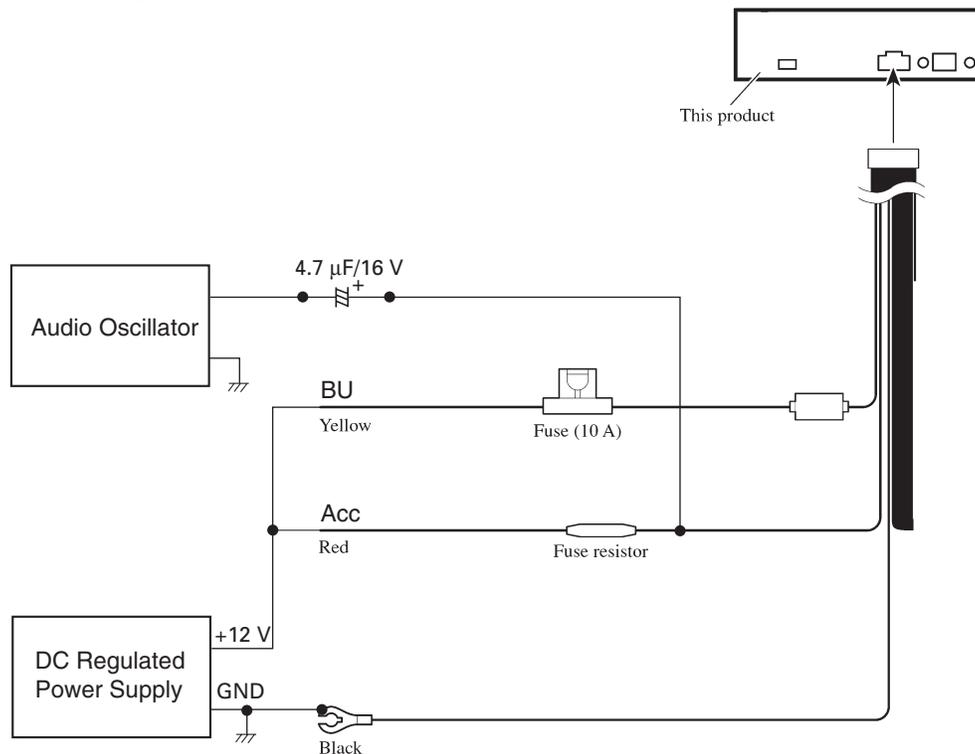
The clock signal should be 625.000 kHz(- 25 Hz, + 25 Hz).

If the clock signal is out of the range, the X'tal (X601) should be replaced with new one.

6.5 HOW TO CHECK THE REVOLUTION NUMBER DETECTION CIRCUIT



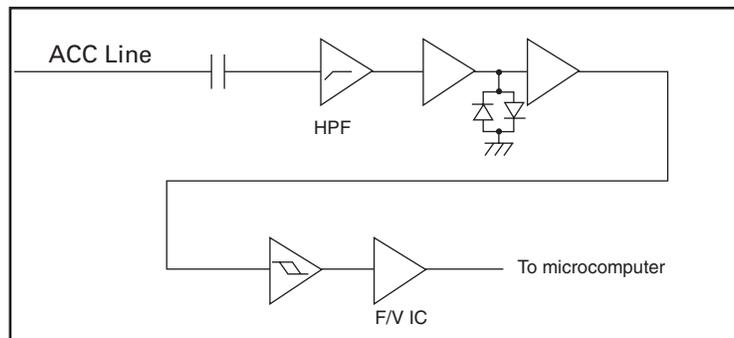
● Connection Diagram



● Checking the Revolution Number Detection Circuit

1. Input 400 mVp-p sine waves and confirm change of output voltage according to frequency.
2. There is a definite relation between alternating current frequency and the engine revolution number.
Frequency at 4 000 rpm can be set by user operation.
Linear complement between 0 rpm = 0 Hz and 4 000 rpm.

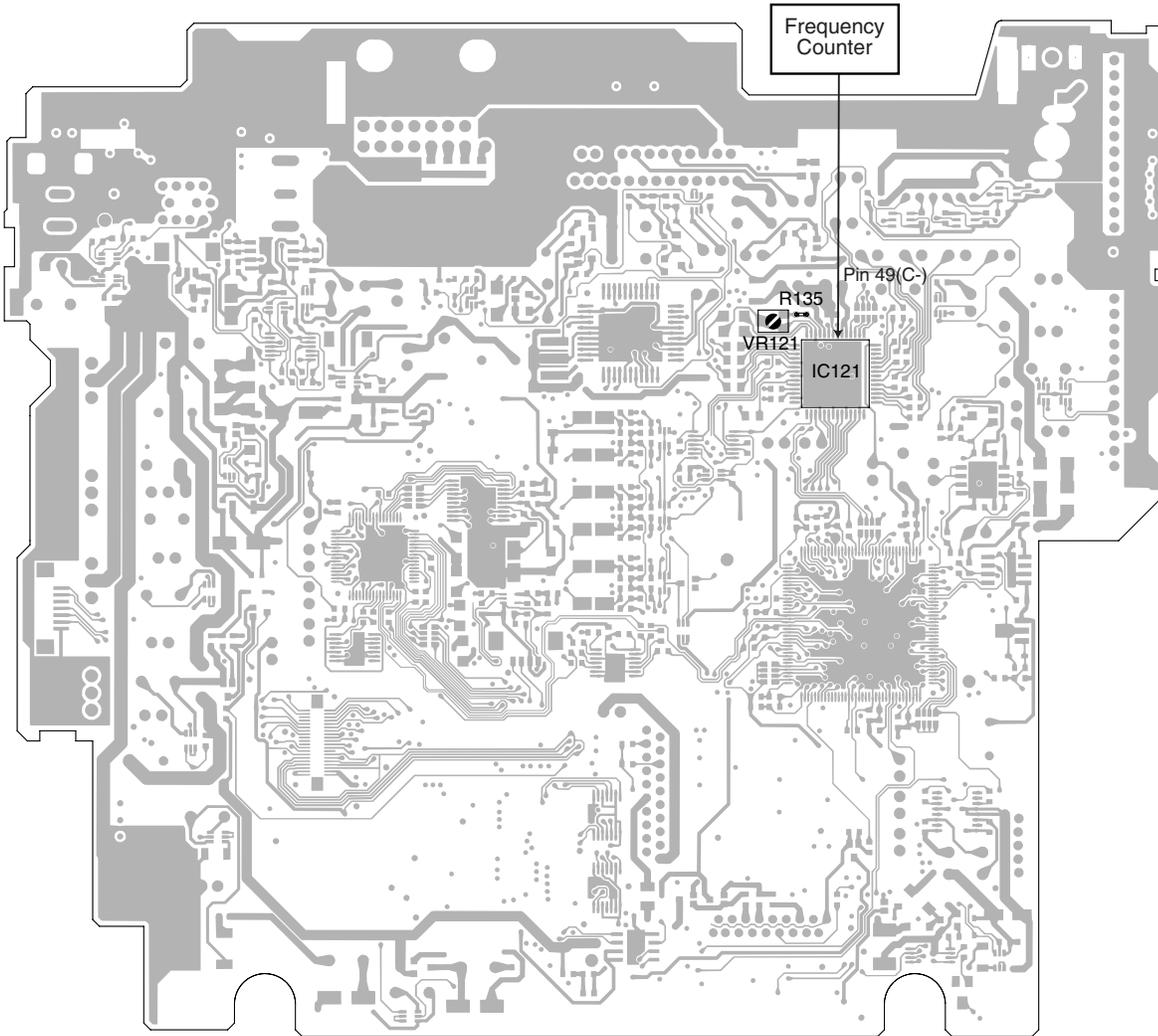
● Block Diagram



6.6 CLOCK ADJUSTMENT



● Connection Diagram



Clock adjustment when you change the VR121, R135 or IC121.

● Clock Adjustment

Adjustment Point	Switch Position	Adjustment Method
VR121	Source : except for AM	Frequency Counter : 400 kHz \pm 10 kHz

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

● Removing the Case (not shown)

1. Remove the Case.

● Removing the CD Mechanism Module (Fig.1)

- 1 Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.

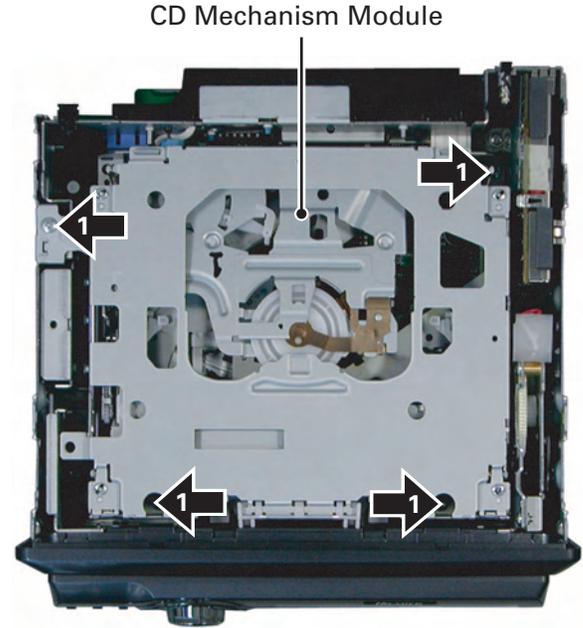


Fig.1

● Removing the Grille Assy (Fig.2)

- 1 Remove the four screws.

Disconnect the connector and then remove the Grille Assy.

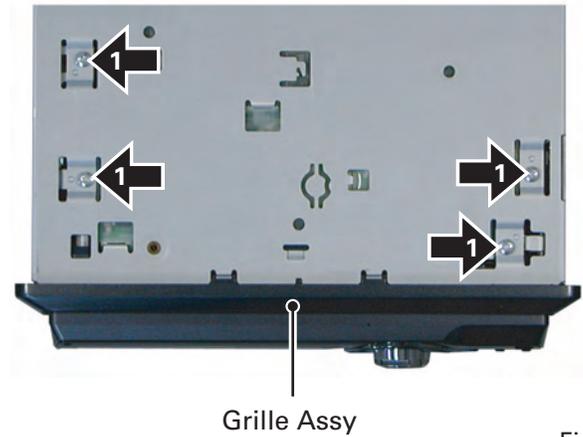


Fig.2

● Removing the Tuner Amp Unit (Fig.3)

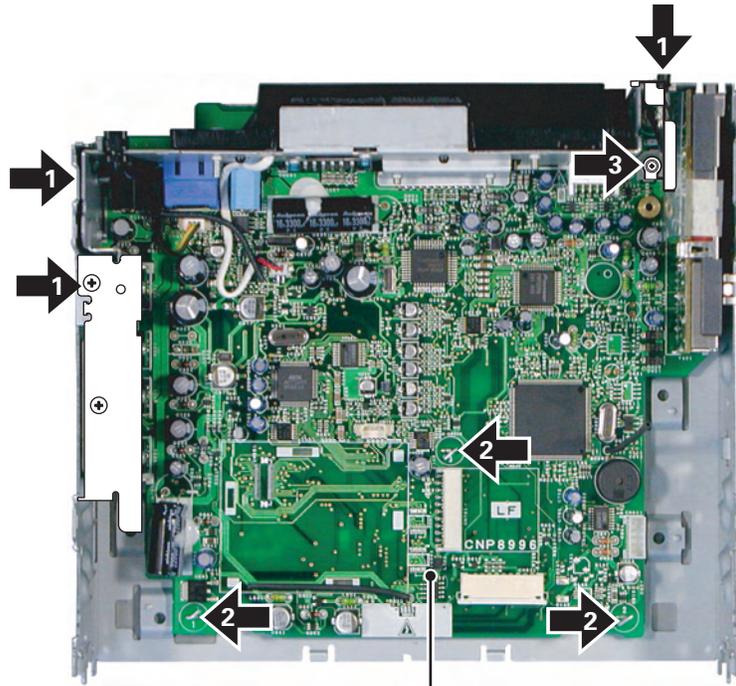
A

➔ 1 Remove the three screws.

➔ 2 Straighten the tabs at three locations indicated.

➔ 3 Remove the screw and then remove the Tuner Amp Unit.

B



Tuner Amp Unit

Fig.3

C

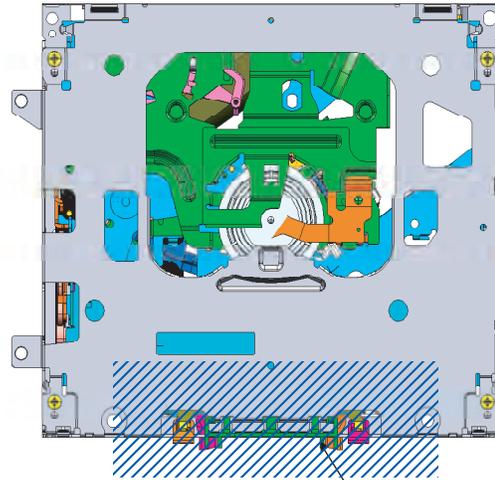
D

E

F

● How to hold the Mechanism Unit

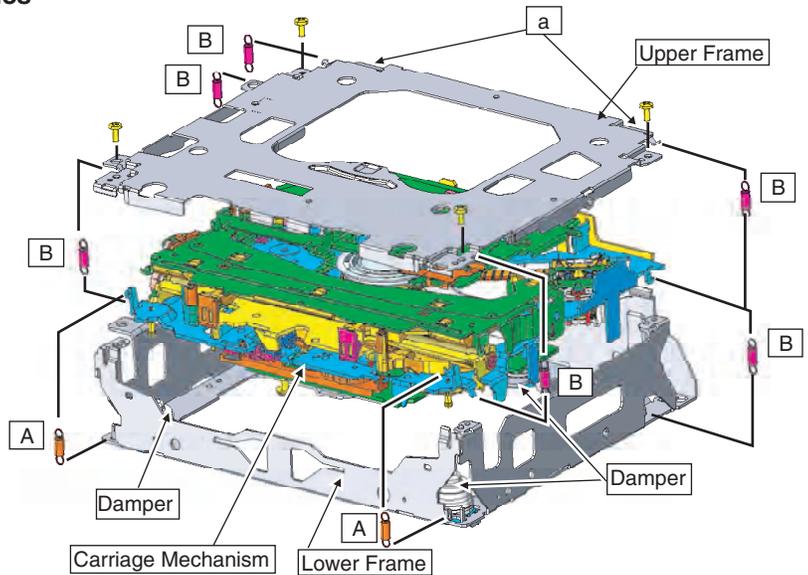
1. Hold the Upper and Lower Frames.
2. Do not hold the front portion of the Upper Frame, because it is not very solid.



Do not squeeze this area.

● Removing the Upper and Lower Frames

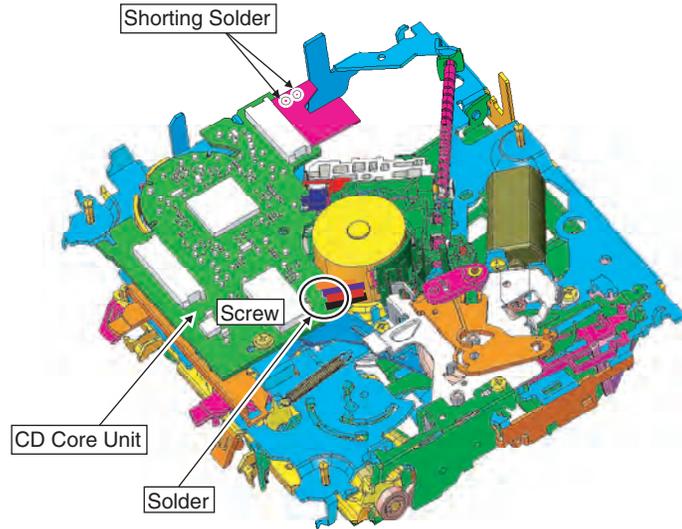
1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
 2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
 3. While lifting the Carriage Mechanism, remove it from the three Dampers.
- Caution: When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.



● How to remove the CD Core Unit

1. Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
2. Unsolder the four leads, and loosen the Screw.
3. Remove the CD Core Unit.

Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

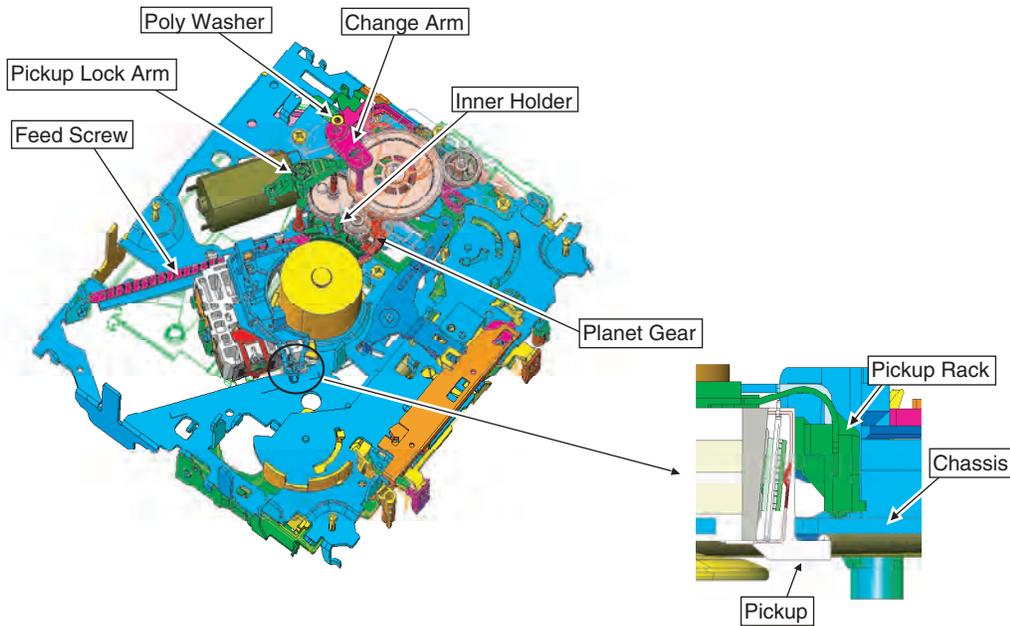


● How to remove the Pickup Unit

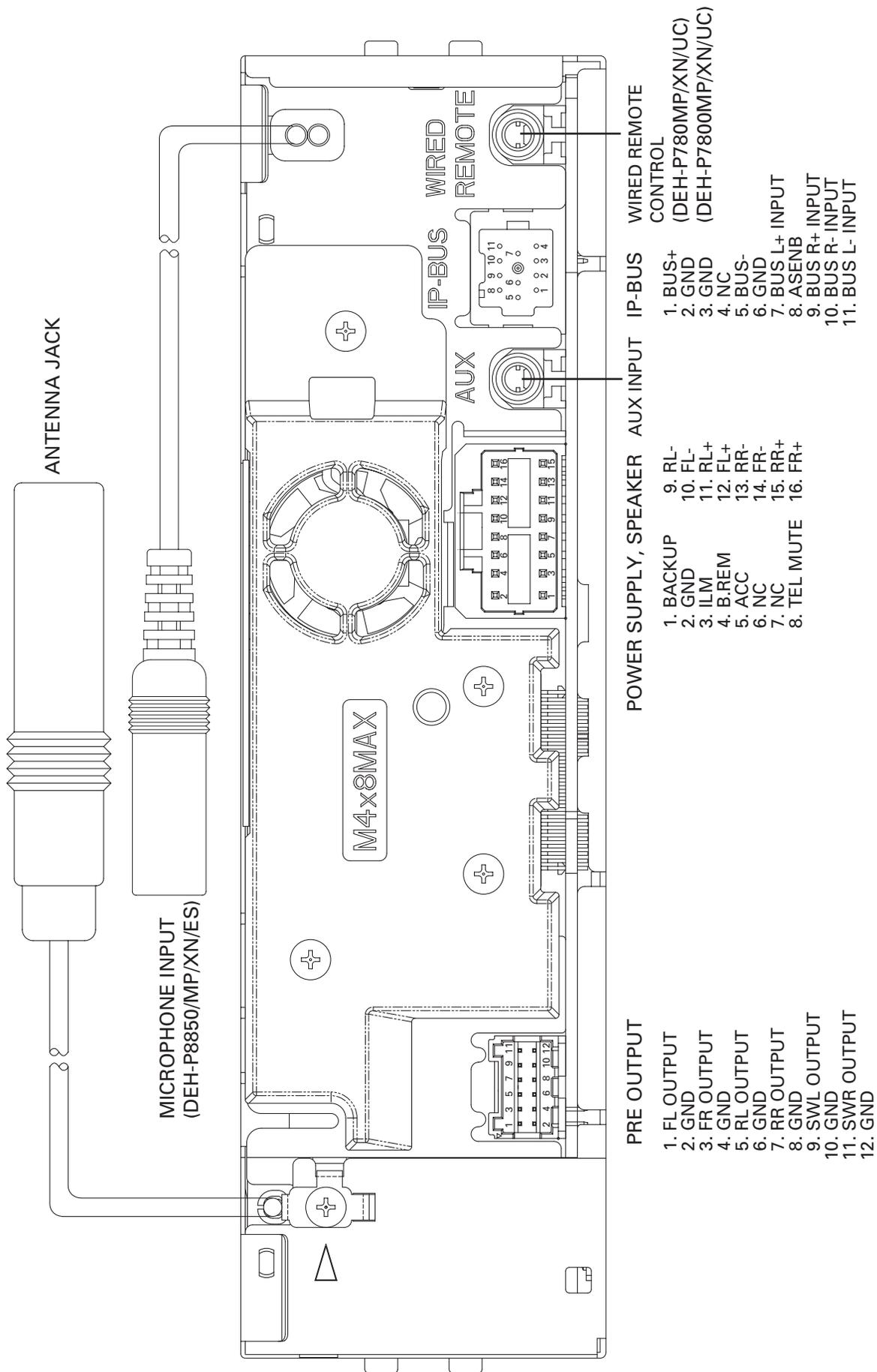
1. Make the system in the carriage mechanism mode, and have it clamped.
2. Remove the CD Core Unit and remove the leads from the Inner Holder.
3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner Holder.

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.



7.1.2 CONNECTOR FUNCTION DESCRIPTION



7.2 IC

NJM2886DL3-33
 PD8161A
 PD8162A
 UPD63763CGJ
 PE5552A

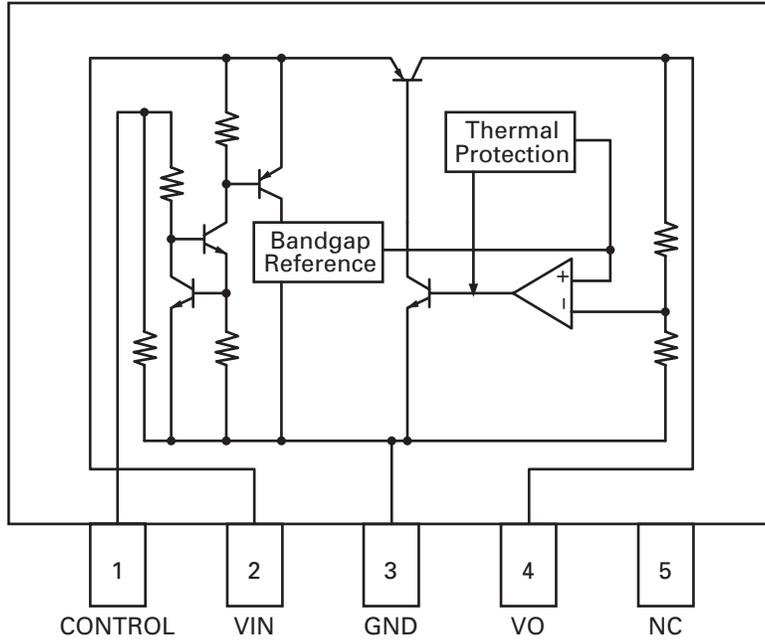
PEG182A
 TC7WH32FU
 PD6544A
 GP1UX51RK
 S1D13702F00A100

HA12241FP
 AK7732VT
 PM9009A
 PCM1606EG
 TC74VHCT08AFTS1

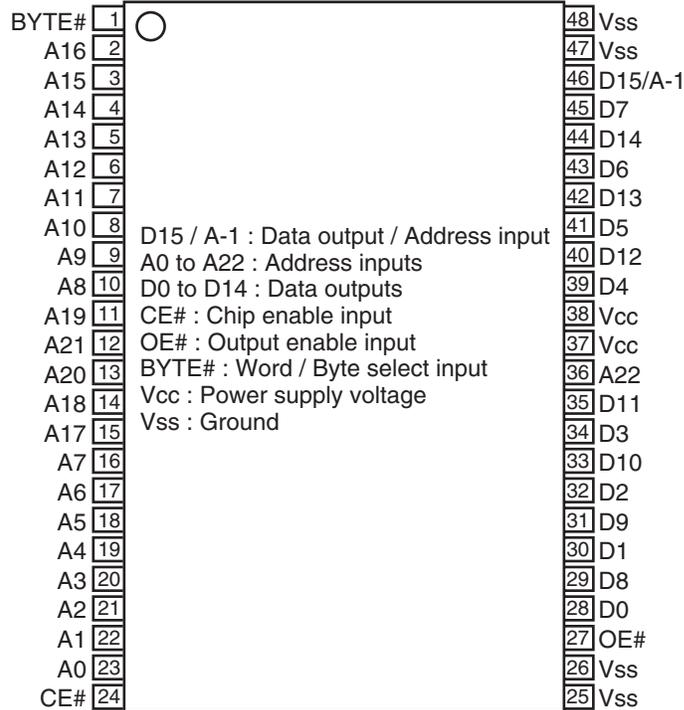
TC74VHC08FTS1
 PAL007B
 NJM4151M
 PM8003A
 PEG221A

PEG175A
 TC7SH08FUS1

NJM2886DL3-33



PD8161A(DEH-P780MP/XN/UC, DEH-P8850MP/XN/ES)
 PD8162A(DEH-P7800MP/XN/UC)

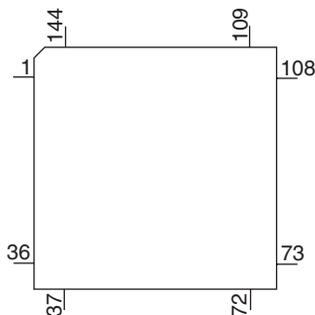


● Pin Functions (UPD63763CGJ)

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Power supply for digital circuits
2	D1.GND		Ground for 1.6 V digital circuits
3	RESET	I	Input of reset
4-8	AB12-8	I	Address bus 12-8 from the microcomputer
9-16	AD7-0	I/O	Address/data bus 7-0 to the microcomputer
17	CS	I	Chip selection
18	ASTB	I	Address strobe
19	READ	I	Control signals(read)
20	WRITE	I	Control signals(write)
21	WAIT	O	Control signals(wait)
22	INTQ	O	Interruption signals to the external microcomputer
23,24	IFMODE0,1	I	Switching the microcomputer I/F 0, 1
25	D1.VDD		Power supply for 1.6 V digital circuits
26	DA.VDD		Power supply for DAC
27	ROUT	O	Output of audio for the right channel
28	DA.GND		Ground for DAC
29	REGC		Connected to the capacitor for band gap
30	DA.GND		Ground for DAC
31	LOUT	O	Output of audio for the left channel
32	DA.VDD		Power supply for DAC
33	X.VDD		Power supply for the crystal oscillator
34	XTAL	I	Connected to the crystal oscillator(16.9344 MHz)
35	XTAL	O	Connected to the crystal oscillator(16.9344 MHz)
36	X.GND		Ground for the crystal oscillator
37	VDDREG15		Control of 1.6 V regulator
38	PWMSW0	I	Setup 0 for PWM output(SD, MD)
39-41	TEST3-1	I	Connected to Ground
42	PWMSW1	I	Setup 1 for PWM output(FD, TD)
43	TESTEN	I	Connected to Ground
44	D1.GND		Ground for 1.6 V digital circuits
45	DIN	I	Input of audio data
46	DOUT	O	Output of audio data
47	SCKIN	I	Clock input for audio data
48	SCKO	O	Clock output for audio data
49	LRCKIN	I	Input of LRCK for audio data
50	LRCK	O	Output LRCK for audio data
51	XTALEN	I	Permission to oscillate 16.9344 MHz
52	D1.VDD		Power supply for 1.6 V digital circuits
53	RFCK/HOLD	O	Output of RFCK/HOLD signal
54	WFCK/MIRR	O	Output of WFCK/MIRR signal
55	PLCK/RFOK	O	Output of PLCK/Output of RFOK
56	LOCK/RFOK	O	Output of LRCK/Output of RFOK
57	C1D1/C8M/(RA13)	O	Information on error correction/C8M : 8 MHz
58	C1D2/C16M/(RA12)	O	Information on error correction/C16M : 16 MHz
59	C2D1/RMUTE	O	Information on error correction/Mute for Rch
60	C2D2/LMUTE	O	Information on error correction/Mute for Lch
61	C2D3/SHOCK	O	Information on error correction/Detection of vibration
62	D1.GND		Ground for 1.6 V digital circuits
63	C33M	O	Output of 33.8688 MHz(CLK for SDRAM)
64	(RCS)	O	DRAM \overline{CS}
65	RA11	O	Output of DRAM address 11
66	(CKE)	O	Output of DRAM CKE
67	RAS	O	Output of DRAM \overline{RAS}
68	CAS0(LDQM)	O	Output of DRAM lower \overline{CAS} (LDQM)
69	CAS1(UDQM)	O	Output of DRAM upper \overline{CAS} (UDQM)

Pin No.	Pin Name	I/O	Function and Operation
70	\overline{WE}	O	Output of DRAM \overline{WE}
71	$\overline{OE}(CAS)$	O	Output of DRAM $\overline{OE}(CAS)$
72	D.GND		Ground for digital circuits
73-88	RDB0-15	I/O	Input/output of DRAM data0-15
89-99	RA0-10	O	Output of DRAM address0-10
100	D.VDD		Power supply for digital circuits
101	FD+	O	Output of focus drive PWM +
102	FD-	O	Output of focus drive PWM -
103	TD+	O	Output of tracking drive PWM +
104	TD-	O	Output of tracking drive PWM -
105	SD+	O	Output of thread drive PWM +
106	SD-	O	Output of thread drive PWM -
107	MD+	O	Output of spindle drive PWM +
108	MD-	O	Output of spindle drive PWM -
109	REFOUTSV	O	REFOUT for servo
110	AD.VDD		Power supply for ADC
111	EFM	O	Output of EFM signals
112	ASY	I	Input of asymmetry
113	ATEST	O	Analog tests
114	RFI	I	Input of RF
115	AD.GND		Ground for the analog system
116	AGCO	O	Output of RF
117	C3T	O	Connection to the capacitor for detecting 3T
118	AGCI	I	Input of AGC
119	RFO	O	Output of RF(AGC)
120,121	EQ2,1	I	Equalizer 2, 1
122	RF2-	I	Reversal input of RF2
123	RF-	I	Reversal input of RF
124	A.GND		Ground for the analog system
125	A	I	Input of A
126	C	I	Input of C
127	B	I	Input of B
128	D	I	Input of D
129	F	I	Input of F
130	E	I	Input of E
131	VREFIN	I	Input of reference voltage
132	A.VDD		Power supply for the analog system
133	REFOUT	O	Output of reference voltage
134	REFC	I	Connected to the capacitor for output of REFOUT
135	FE-	I	Reversal input of FE
136	FEO	O	Output of FE
137	ADIN	I	Input of FE, TE A/D converter
138	TE-	I	Reversal input of TE
139	TEO	O	Output of TE
140	TE2	O	TE2
141	TEC	I	TEC
142	LD	O	Output of LD
143	PD	I	Input of PD
144	D.GND		Ground for digital circuits

UPD63763CGJ

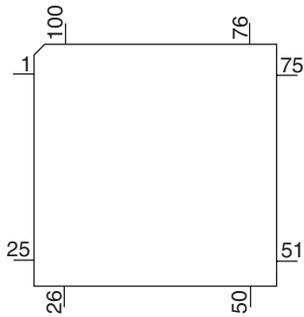


● Pin Functions (PE5552A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	AVREF			A power supply / Positive power supply(5V)
2	AVSS			A power supply GND
3	TESTIN	I		Chip check test program starting input
4	CLAMP			Not used
5	EVDD			E power supply / Positive power supply
6	FMODE			For flash rewriting / L : flash rewriting mode
7	FLRQ			For flash rewriting / Reset voltage control
8	IC/FLMD0			IC : VSS direct connection/FLMOD0 : Pull-down
9	VDD			Positive power supply(5V)
10	REGC			Connected to the capacity stabilizing output of the regulator
11	VSS			GND
12	X1	I		Oscillator connection for mainclock
13	X2			Oscillator connection for mainclock
14	RESET	I		System reset input
15	XT1	I		Connected to the oscillator for subclock(connected to VSS via the resistor)
16	XT2			Connected to the oscillator for subclock(Open)
17	PULLDOWN	I		Connected to EVDD or EVSS via the resistor
18	EJSW			Not used
19	XINT	I	C	CD LSI interruption signal input
20	NC			Not used
21	BRST	I		Bus reset input
22	BSI	I		Bus serial data input
23	BSO	O	C	Bus serial data output
24	B \overline{S} CK	I/O	/C	Bus serial clock input/output
25	FTxD	O	C	For flash rewriting(transmitted signal)
26	FRxD	I		For flash rewriting(received signal)
27	BRXEN	I/O	/C	Bus RX enable input/output
28	B \overline{S} RQ	I/O	/C	Bus serial clock input/output
29	D \overline{S} POK			Not used
30	DSCSNS	I	C	Disc state sense input
31	8EJ(S905)	I	C	input of detection of 8 cm disc ejection
32	12EJ(S904)	I	C	input of detection of 12 cm disc ejection
33	EVSS			E power supply GND
34	EVDD			E power supply / Positive power supply
35,36	SRAMLEVEL0,1	O		SRAM level meter output
37	EMPH	O	C	Emphasis information output
38	EMPH			Not used
39	CDMUTE			Not used
40	LOEJ			Not used
41	CLCONT	O		Driver input switching output
42	HOME	I		Home SW sense input
43	ADENA	O	C	A/D reference voltage supply control output
44	LRCKOK	O	C	(DOUT mute output)
45	SRAMLEVEL2	O	C	SRAM level meter output
46	CD3VON(MCKRQ)	O	C	CD + 3.3 V power supply control output(Digital output : MCKRQ)
47	CONT	O	C	Servo driver power supply control output
48	X \overline{R} ST	O	C	CD LSI reset control output
49	VDCONT	O	C	VD power supply control output
50	X \overline{S} I	I		CD LSI serial data input
51	X \overline{S} O	O	C	CD LSI serial data output
52	X \overline{C} K	O	C	CD LSI serial clock output
53	XWAIT	I	C	CD LSI wait control signal input
54	XASTB	O	C	CD LSI address strobe output
55	AD0	O	C	Address/data Bus 0
56	INT			Not used

Pin No.	Pin Name	I/O	Format	Function and Operation
57	ROMDATA	I/O		E2PROM data input/output
58	ROMCK	O		E2PROM clock output
59	ROMCS	O	C	E2PROM chip selection output
60,61	NC			Not used
62	CLKOUT			Not used
63	LOCK	I		Spindle lock input
64-68	NC			Not used
69	BVSS			B power supply GND
70	BVDD			B power supply / Positive power supply
71-75	NC			Not used
76	FLMD1	I/O	/C	Address/Data Bus 5
77-90	NC			Not used
91-93	A/D			Not used
94	$\overline{\text{CSENS}}$			Not used
95	TYPE_A/D			Not used
96,97	NC			Not used
98	TEMP			Not used
99	VDSENS	I		VD power supply short sense input
100	DSCSNS			Not used

PE5552A

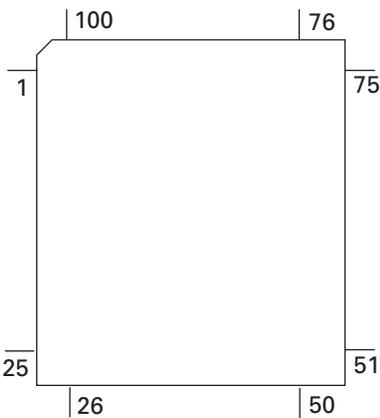


Format	meaning
C	C MOS

● Pin Functions (PEG182A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	DRIVE_CS	O	C	Anode driver IC chip select output
2	ROMDT	I/O	/C	ROM correction : Data input/output
3	ROMCS	O	C	ROM correction : Chip select output
4	ROMCK	O	C	ROM correction : Clock output
5	REM	I		Remote control reception input
6	BYTE	I		GND connection
7	CNVSS	I		GND connection
8	NC			Not used OPEN
9	BTLED	O	C	Bluetooth attestation LED output
10	RESET	I		Reset input
11	XOUT	O		Crystal oscillating element connection pin
12	VSS1			GND connection
13	XIN	I		Crystal oscillating element connection pin
14	VCC1			VDD connection
15	NMI	I		Pull up
16	OELINT	I		OEL controller : VSYNC interrupt notification input
17	OELRESET	O	C	OEL controller : Reset output
18	FLRESET	O	C	Flash memory : Reset output
19	FLBUSY	I		Flash memory : READY and BUSY signal detect input
20	FLCE-ON	O	C	Flash memory : Chip enable output
21	P2CE-ON	O	C	P2ROM : Chip enable output
22	ROMBK2	O	C	Image ROM : Bank address output
23	ROMBK1	O	C	Image ROM : Bank address output
24	ROMBK0	O	C	Image ROM : Bank address output
25	NC			Not used
26-28	KS2-KS0	O		Key strobe output
29	KYDT	O	N	Key data communication output
30	DPDT	I		Display data communicatio
31,32	NC			Not used
33	CDTX	O	C	CD mechanism : Data output
34	CDRX	I		CD mechanism : Data input
35,36	NC	O		Not used
37	RDY	I		RDY signal input
38	NC			Not used OPEN
39	HOLD	I		Pull up
40	NC			OPEN
41	BCLK			OEL controller : clock output
42	RD	O	C	Image ROM : Read stobe output
43	NC			OPEN
44	WR	O	C	Write strobe output
45-47	CS0-CS2	O	C	External ROM chip select output
48-59	A20-A9	O	C	Address bus 20-19 output
60	VCC2			VDD connection
61	A8	O	C	Address bus 8 output
62	VSS2			GND connection
63-70	A7-A0	O	C	Address bus 7-0 output
71-86	D15-D0	I/O	C	Data bus 15-0 input / output
87,88	NC			Not used
89	JOYST	I		Rotary commander data input
90	NC			Not used
91-93	KD2-KD0	I		Key data input
94	AVSS			GND connection
95	NC			Not used
96	VREF			GND connection
97	AVCC			VCC connection
98,99	NC			Not used
100	OELROMCS	O	C	E2 ROM : Chip select output

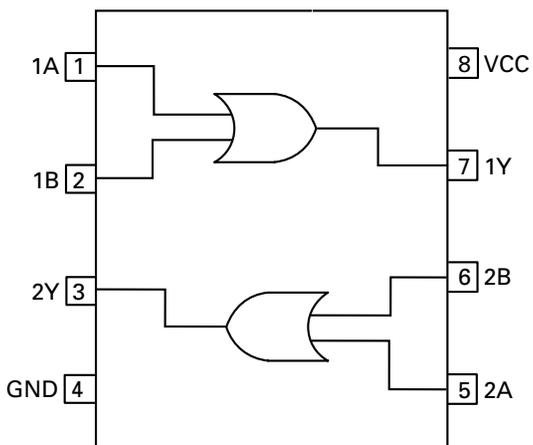
PEG182A



Format	Meaning
C	CMOS
N	Nch open drain

PD6544A

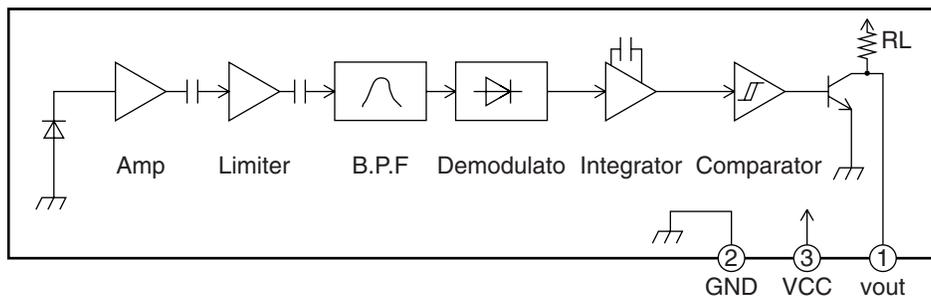
TC7WH32FU



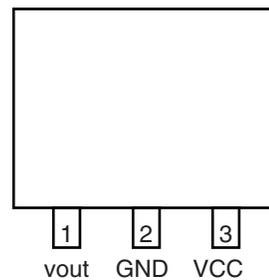
A15	1		48	A16
A14	2		47	BYTE
A13	3		46	VSS
A12	4		45	DQ15/A-1
A11	5		44	DQ7
A10	6	A-1 : Address input	43	DQ14
A9	7	A0-A19 : Address input	42	DQ6
A8	8		41	DQ13
A19	9	DQ0-DQ15 : Data input/output	40	DQ5
N.C.	10	CE : Chip enable input	39	DQ12
WE	11	OE : Output enable input	38	DQ4
RESET	12	WE : Write enable input	37	VCC
N.C.	13		36	DQ11
N.C.	14	RESET : Reset input	35	DQ3
RY/BY	15	RY/BY : Ready / Busy input	34	DQ10
A18	16	BYTE : 8 bit / 16 bit mode select input	33	DQ2
A17	17		32	DQ9
A7	18	Vss : Ground	31	DQ1
A6	19	Vcc : Power supply	30	DQ8
A5	20		29	DQ0
A4	21		28	CE
A3	22		27	VSS
A2	23		26	CE
A1	24		25	A0

GP1UX51RK

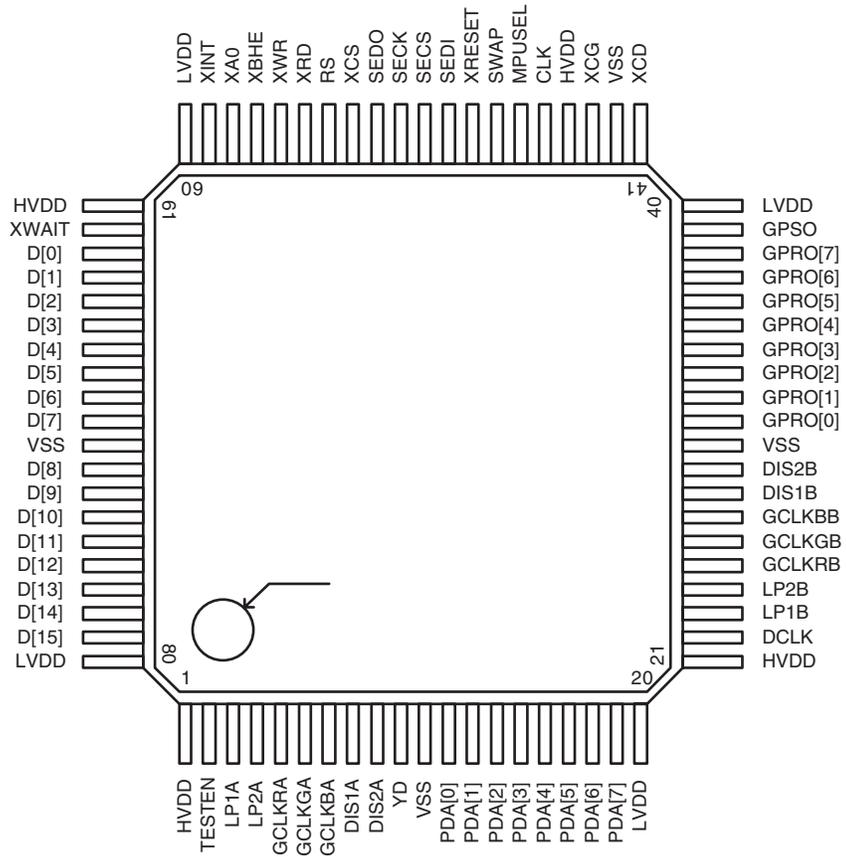
● Block Diagram



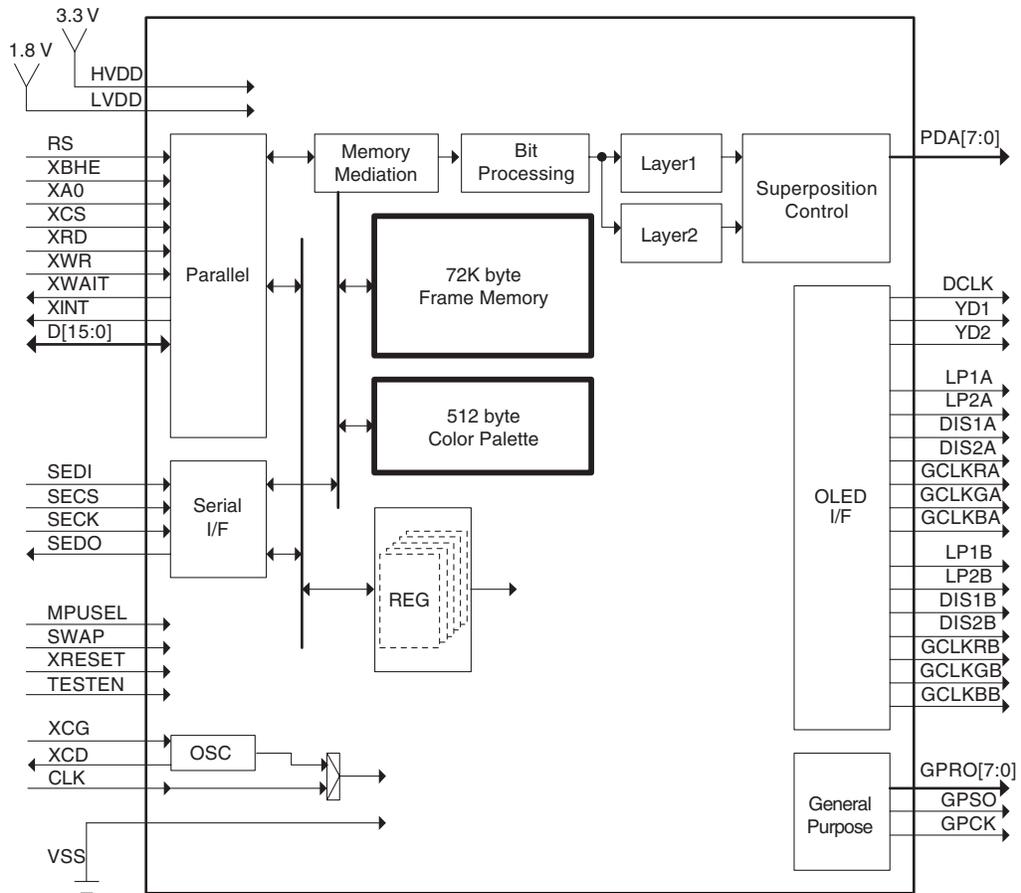
● Pin Layout



● Pin Layout



● Block Diagram

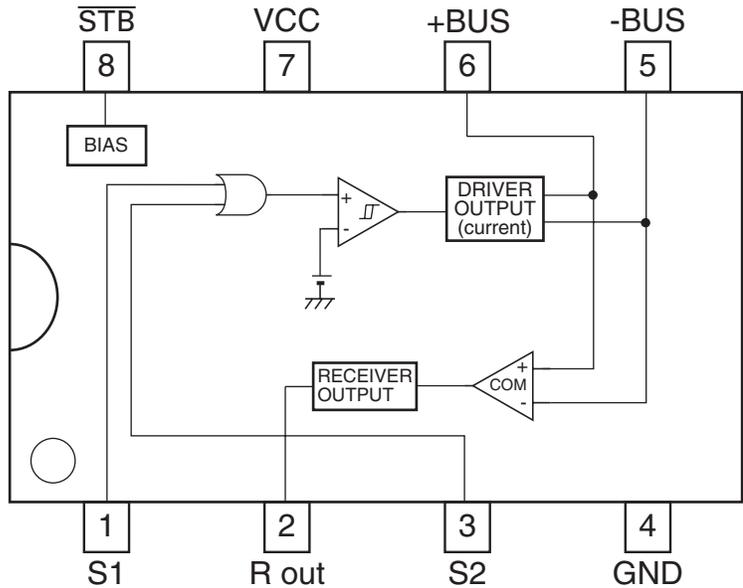


HA12241FP

A

B

C



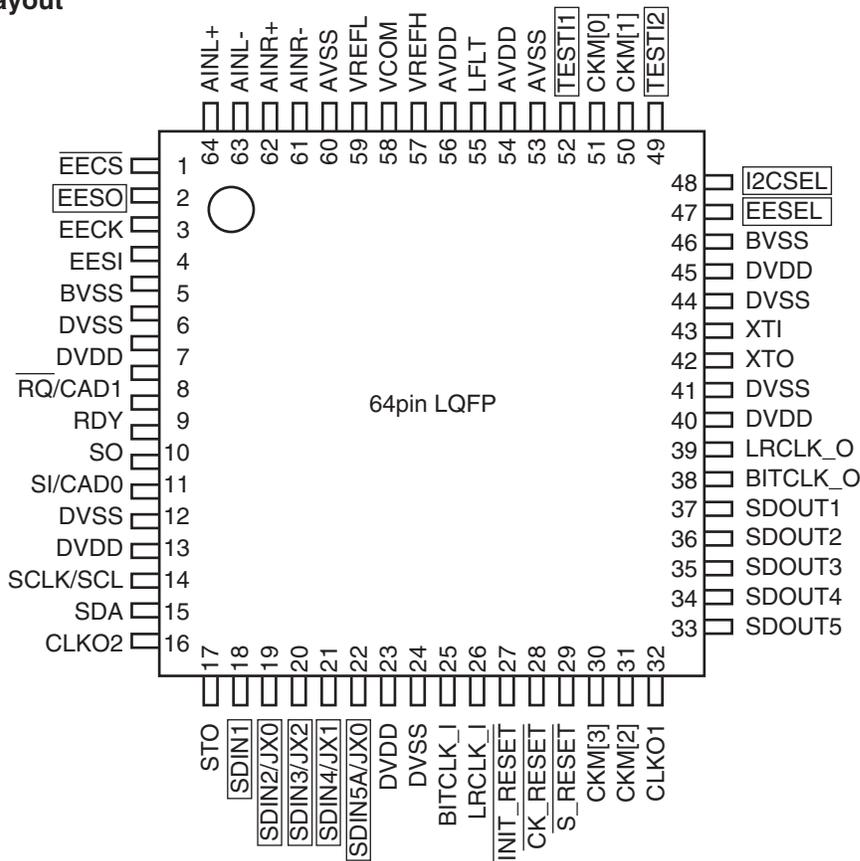
AK7732VT

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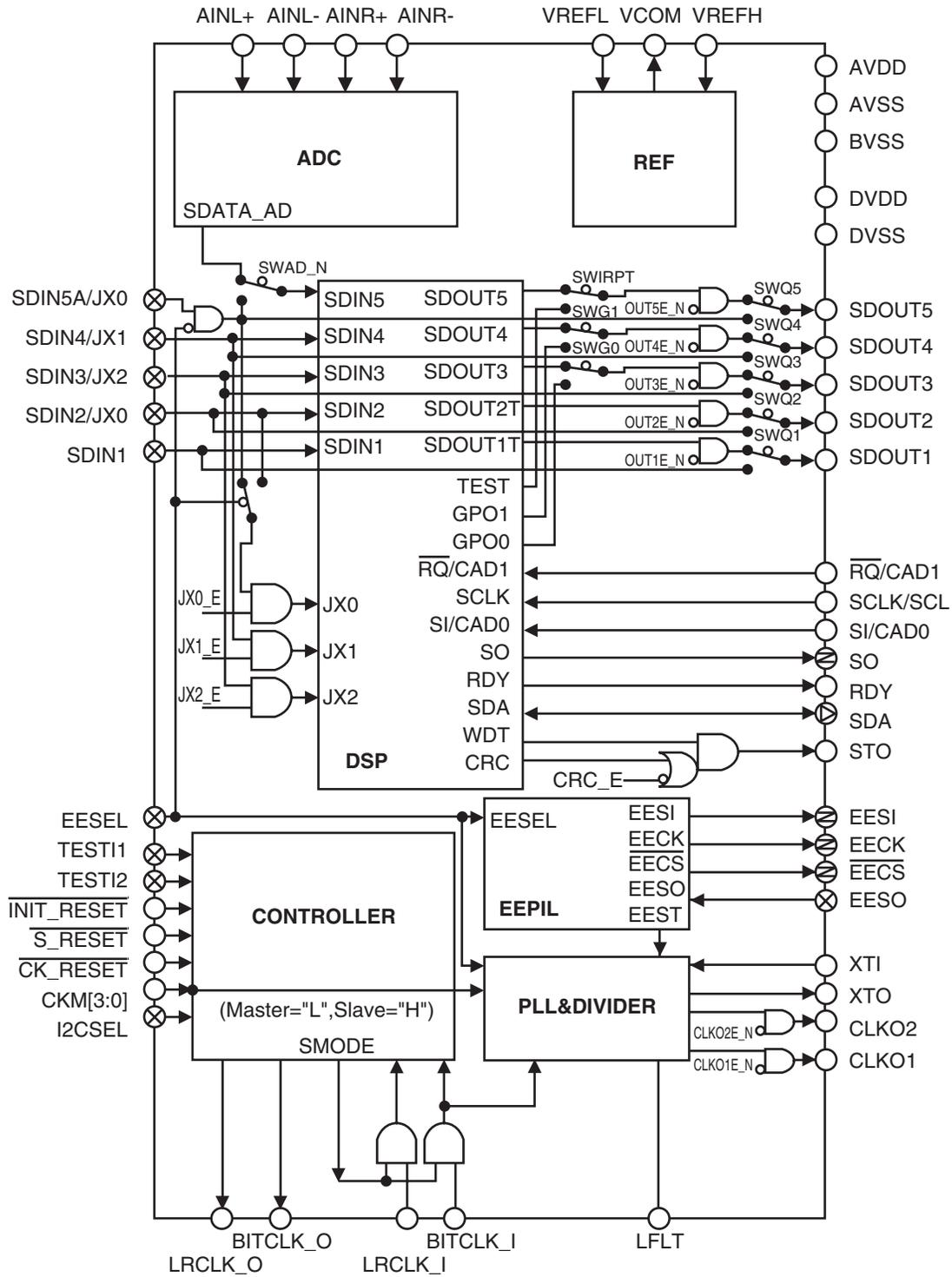
D

E

F

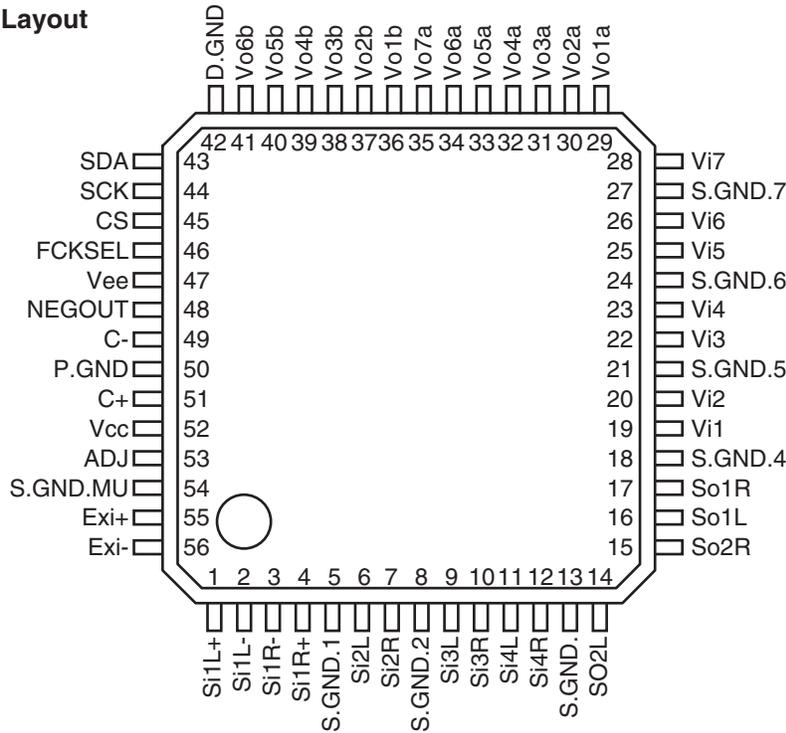


● Block Diagram

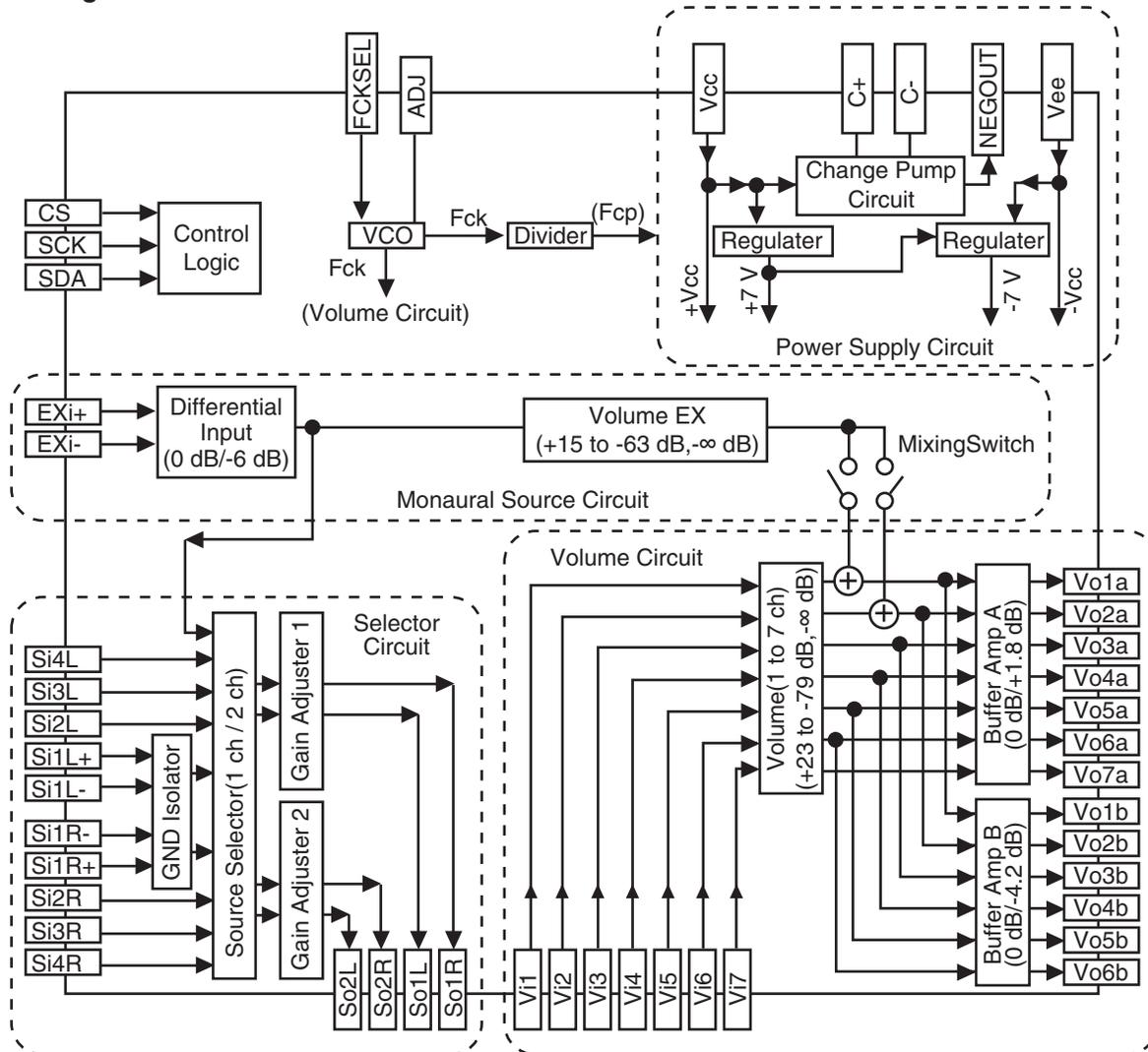


A
B
C
D
E
F

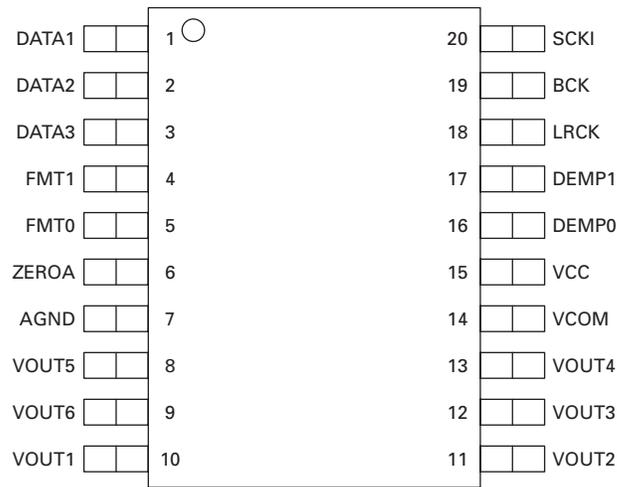
● Pin Layout



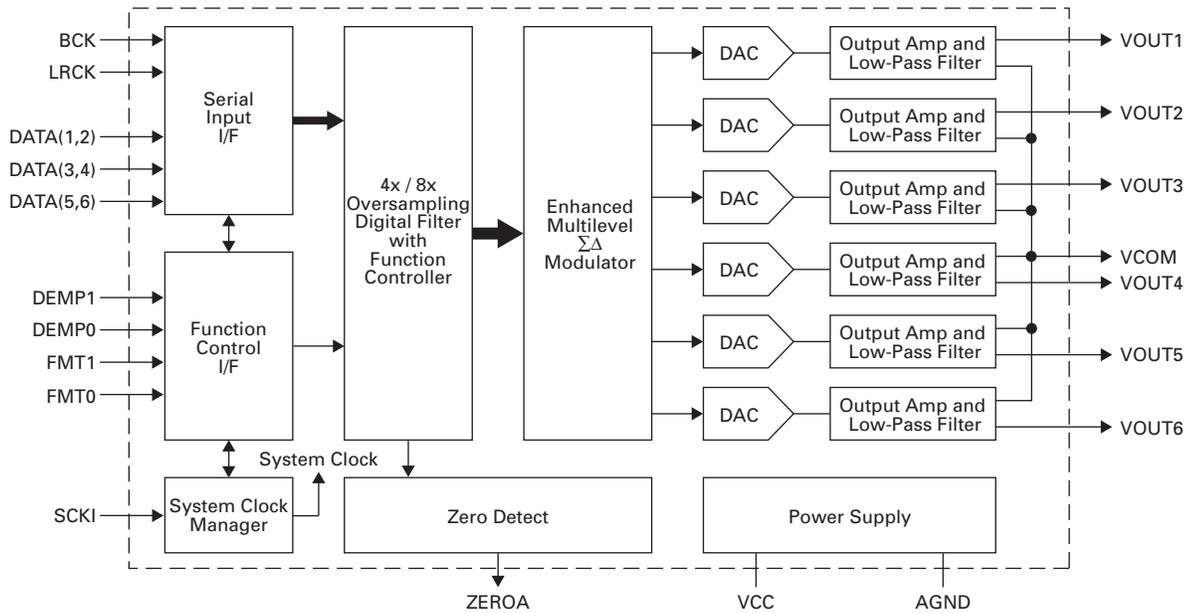
● Block Diagram



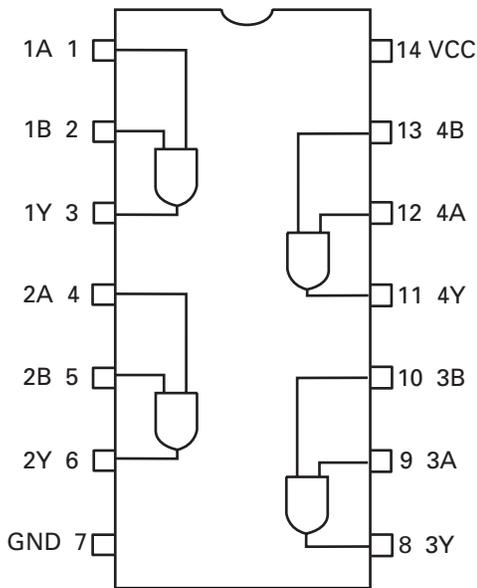
PCM1606EG
 ● Pin Layout



● Block Diagram



TC74VHCT08AFTS1,
 TC74VHC08FTS1



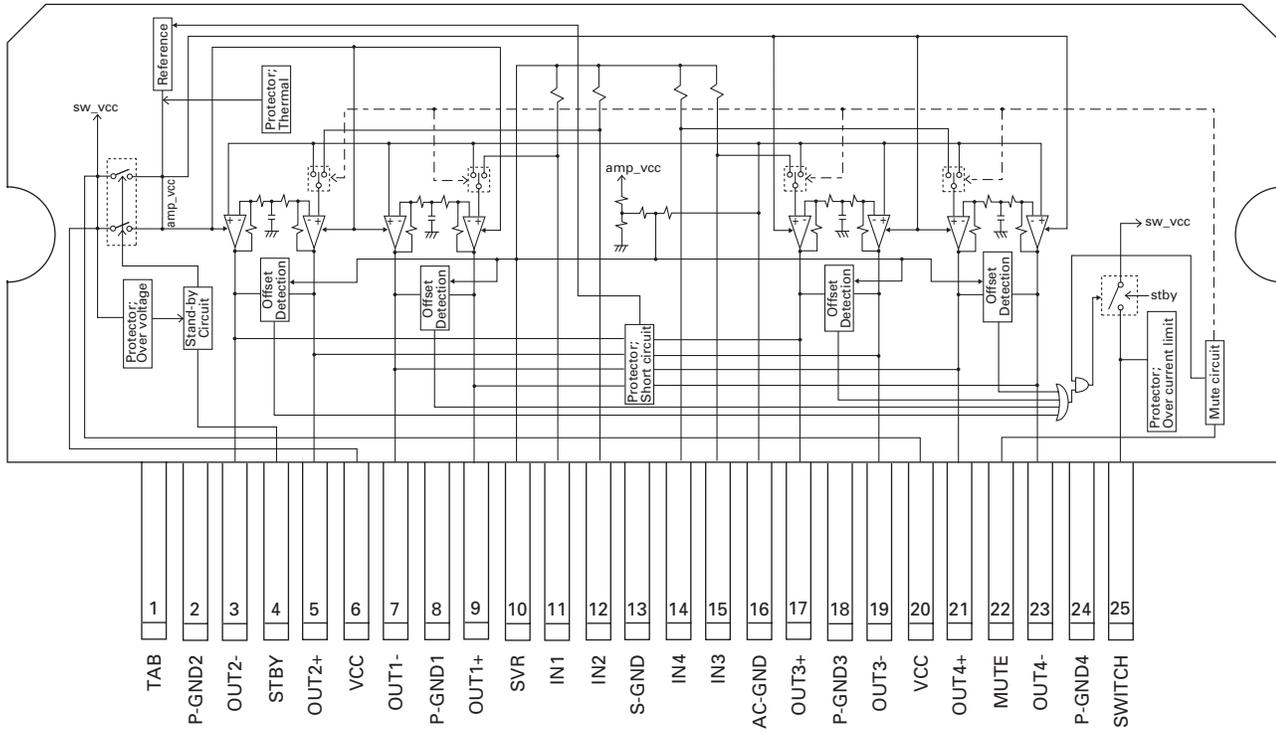
PAL007B

A

B

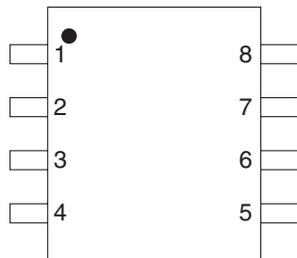
C

C

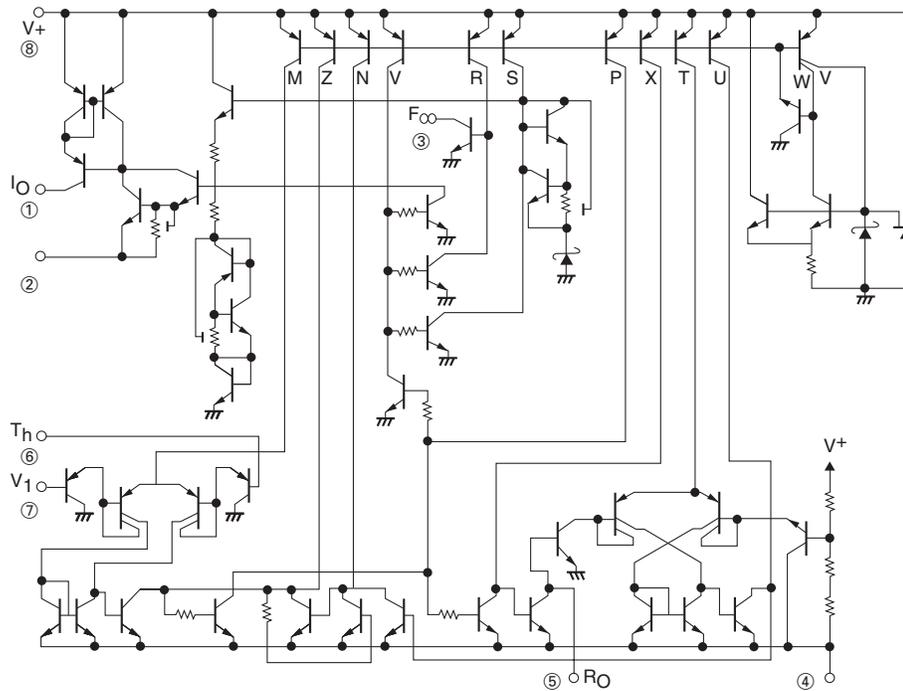


NJM4151M

● Pin Layout



● Block Diagram

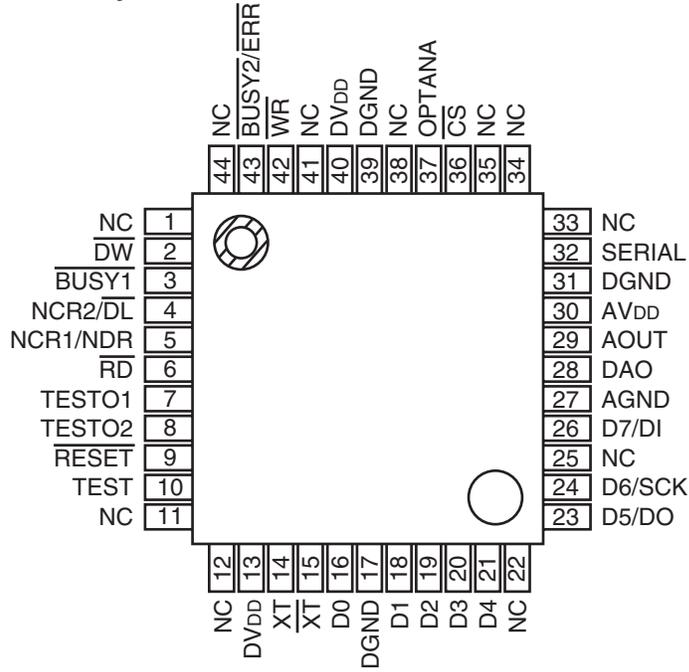


E

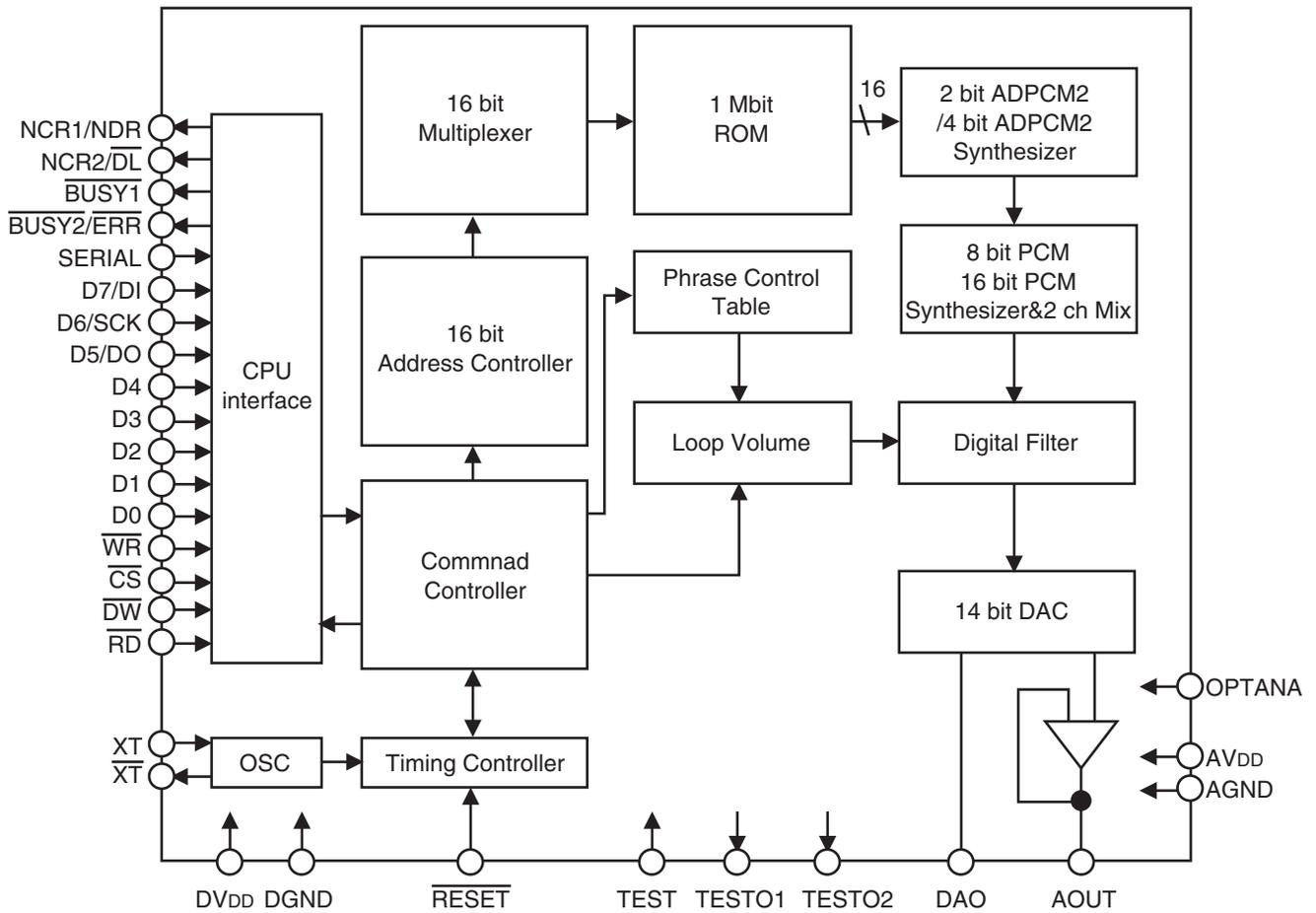
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PM8003A

● Pin Layout



● Block Diagram



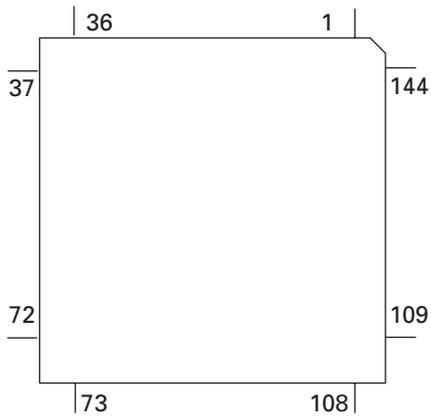
● Pin Functions(PEG221A, PEG175A)

Pin No.	Pin Name	I/O	Function and Operation
1	DPDT	O	GRILLE : Data output
2	SWVDD	O	GRILLE : Chip enable output
3	OELPW		OEL power supply output
4	NC		Not used
5	MEMDO	O	External memory : Data output
6	MEMDI	I	External memory : Data input
7	MEMCK	O	External memory : Clock output
8	NC		Not used
9	FLPOPEN	O	Flap open operation output
10	FLPCLS	O	Flap close operation output
11	FOPNSW	I	Flap open sense input
12	FCLSSW	I	Flap close sense input
13	FLPPW		Flap motor operation
14	NC		Not used
15,16	BYTE1,2	I	Connect to GND
17	NC		Not used
18	ROMDATA	I/O	ROM correction : Data input/output
19	RESET	I	Reset input
20	Xout	O	Clock output
21	Vss		GND
22	Xin	I	Clock input
23	Vcc1		Power supply terminal
24	NMI	I	Not used
25	NC		Not used
26	NC		Not used
27	ROMCK	O	ROM correction : Clock output
28	NC		Not used
29	ROMCS		ROM correction : Chip select output
30	NC		Not used
31	PEE	O	PEE sound output
32	NC		Not used
33	NC		Not used
34	TUNPCE1	O	TUNER : Chip enable output
35	TUNPCE2	O	TUNER : Chip enable output
36	RX	I	IPBUS : Input
37	TX	O	IPBUS : Output
38	BSO	O	P-BUS output
39	VCC1		Power supply terminal
40	BSI	I	P-BUS input
41	VSS		GND
42	BCLK	O	P-BUS clock output
43	NC		Not used
44	NC		Not used
45	NC		Not used
46	NC		Not used
47	NC		Not used
48	NC		Not used
49	TUNPDI	I	TUNER : PLL communication
50	TUNPDO	O	TUNER : Data output(PLL)
51	TUNPCK	O	TUNER : Clock output(PLL)
52	AUIWR	O	AUI : Write signal output
53	AUICS	O	AUI : Chip select output
54	AUISDO	O	AUI : Data output
55	AUISCK	O	AUI : Serial clock output
56	AUIRST	O	AUI : Reset output
57	VSS		GND
58	MUTE	O	System mute output

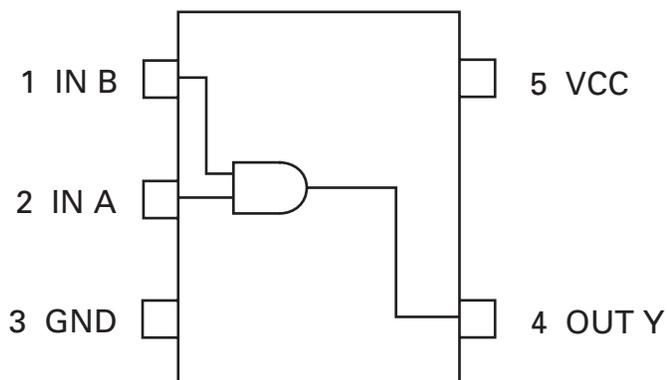
Pin No.	Pin Name	I/O	Function and Operation
59	VCC		Power supply terminal
60	EVOLCS	O	EVOL : Chip select output
61	FCKSEL	O	EVOL : Frequency select output
62	PCL	O	Output for clock adjustment
63	AUIBUSY	I	AUI : Busy input
64	IPPW	O	IPBUS : Driver power supply control output
65	ASENBO	O	IPBUS : Slave ACC sense output
66	MICSENS	I	Microphone sense input
67	AUIMUTE	O	AUI : Mute output
68	NC		Not used
69	DSPRAMCLR	O	DSP : RAM clear request output
70	DSPDRDY	I	DSP : Data write ready input
71	DSPIRST	O	DSP : Reset output
72	CKRST	O	DSP : Clock reset output
73	DSRST	O	DSP : System reset output
74	VCC		Power usupply terminal
75	DSPRO	O	DSP : Interface request output
76	VSS		GND
77	SMODE	O	Mode select output H : Master L : Slave
78	BTHF_AEQ	O	Source select output H : AUTO EQ L : Bluetooth H/F
79	$\overline{\text{BR}}\text{SQ}$	I	P-BUS : Service request input
80	$\overline{\text{BR}}\text{ST}$	O	P-BUS : Reset output
81	$\overline{\text{BR}}\text{XEN}$	I/O	P-BUS : Reception enable input/output
82	LRCKOK	I	LR clock OK information input
83	RST2	O	CD reset output
84	MCKRQ	I	Master clock request input
85	NC		Not used
86	MEMCS	O	External memory : Chip select output
87	MEMWP	O	External memory : Write protect output
88	DSPIN	I	DSP : Data input
89	DSPCK	I/O	DSP : Clock input/output
90	DSPOUT	O	DSP : Data output
91	VCC		Power supply terminal
92	AMPPW	O	Amp power supply control output
93	VSS		GND
94	NC		Not used
95	NC		Not used
96	NC		Not used
97	NC		Not used
98	DALMON	O	For consumption current reduction output
99	SYSPW	O	System power control output
100	DSPPW	O	DSP : Power control output
101,102	NC		Not used
103	ASENS	I	ACC sense input
104	BSENS	I	Back up sense input
105	ISENS	I	Illumination sense input
106	NC		Not used
107	KEYD	I	Wired remote control key input
108	MODEL	I	Model select select input
109	NC		Not used
110	NC		Not used
111	ILMPW	O	Illumination output
112	FLPILM	O	Illumination output inside flap
113-122	NC		Not used
123	TELIN	I	Mobile phone mute input
124	ROT1	I	Rotary encoder pulse input
125	ROT0	I	Rotary encoder pulse input

Pin No.	Pin Name	I/O	Function and Operation
126	TESTIN	I	Test program input
127-129	NC		Not used
130	VSS		GND
131	NC		Not used
132	VCC		Power supply terminal
133	NC		Not used
134	BATIND	I	Battery indicator input
135	KEYAD	I	Wired remote control analog voltage input
136	GAUGE		Gauge input
137	\overline{DSENS}	I	Detach sense input
138	NC		Not used
139	ASLIN	I	ASL input
140	AVSS		A/D converter ground
141	SL	I	TUNER : Signal level input
142	VREF		A/D converter reference voltage
143	AVCC		A/D converter power supply input terminal
144	KYDT	I	GRILLE : Data input

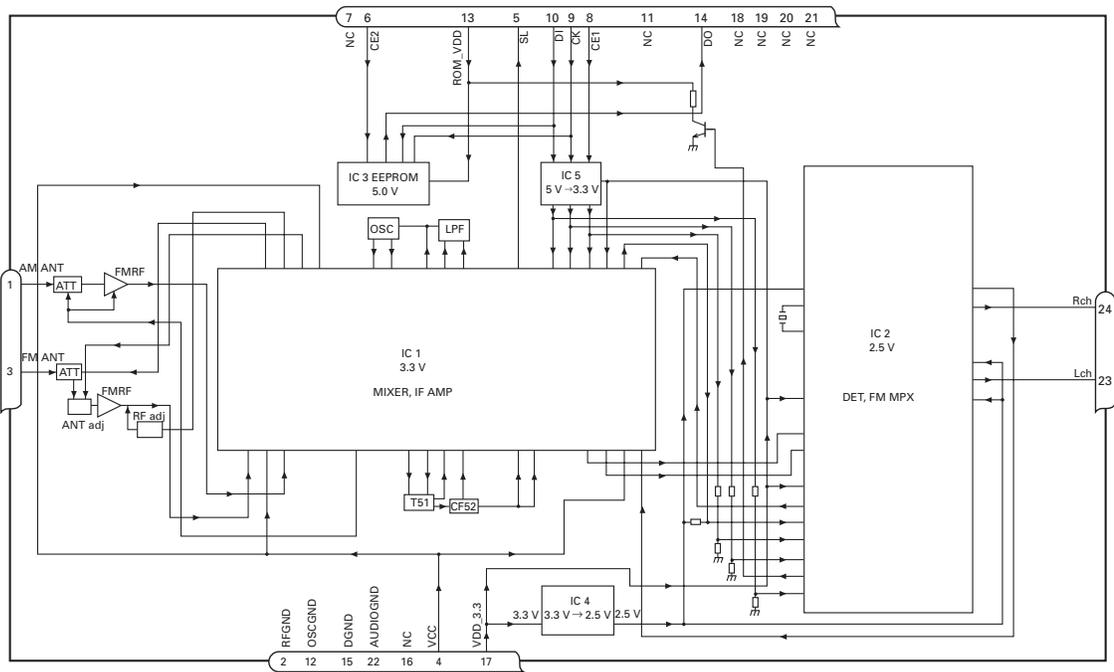
PEG221A(DEH-P780MP/XN/UC, DEH-P7800MP/XN/UC)
 PEG175A(DEH-P8850MP/XN/ES)



TC7SH08FUS1



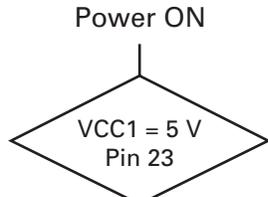
● FM/AM Tuner Unit



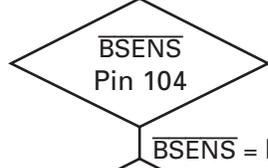
No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 4.7 μ H. (LAU type inductor)A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	I	FM antenna input	Input of FM antenna 75 Ω Surge absorber(DSP-201M-S00B)is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4 V \pm 0.3 V
5	SL	O	signal level	Output of FM/AM signals level
6	CE2	I	chip enable-2	Chip enable for EEPROM "Low" active
7	NC		non connection	Not used
8	CE1	I	chip enable-1	Chip enable for AF*RF "High" active
9	CK	I	clock	Clock
10	DI	I	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. 3.3 V \pm 0.2 V
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	O	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output	FM stereo "R-ch" signal output or AM audio output

7.3 OPERATIONAL FLOW CHART

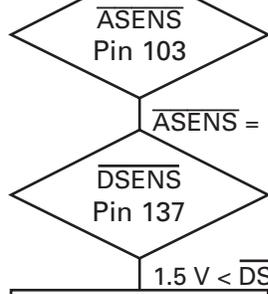
A



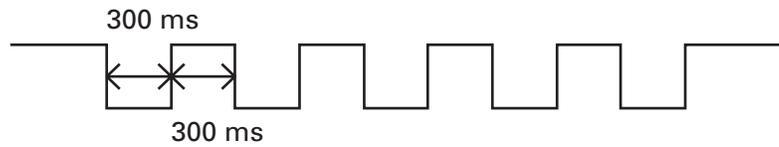
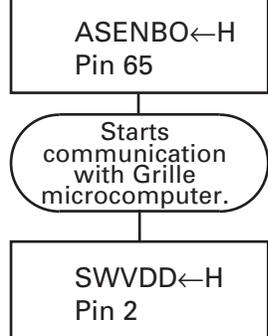
B



C

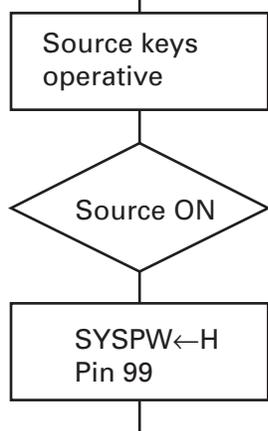


D



In case of the above signal, the communication with Grille microcomputer may fail. If the time interval is not 300 msec, the oscillator may be defective.

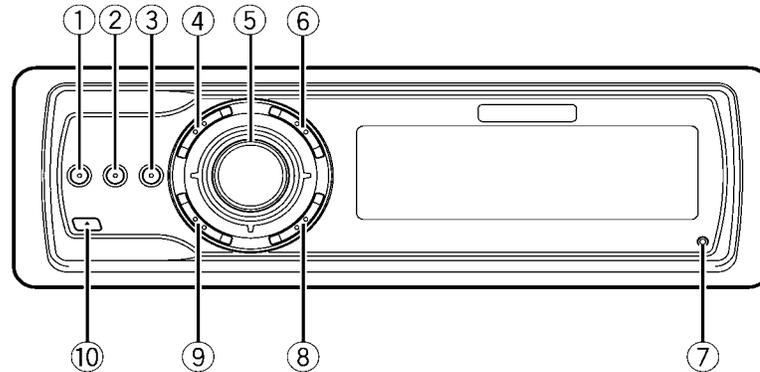
E



Completes power-on operation.
(After that, proceed to each source operation)

F

8. OPERATIONS



Head unit

- ① **EQ button**
Press to select various equalizer curves.
- ② **DISPLAY button**
Press to select different displays.
- ③ **CLOCK button**
Press to change to the clock display.
- ④ **SW button**
Press to select the subwoofer setting menu.
- ⑤ **MULTI-CONTROL**
Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Turn to increase or decrease the volume.
- ⑥ **LIST button**
Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.
- ⑦ **RESET button**
Press to reset the microprocessor.
- ⑧ **BAND button**
Press to select among three FM bands and one AM band and to cancel the control mode of functions.

⑨ SOURCE button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

⑩ EJECT button

Press to eject a CD from your built-in CD player. Press and hold to open or close the front panel. ■

Remote control

Operation is the same as when using the buttons on the head unit.

⑪ VOLUME buttons

Press to increase or decrease the volume.

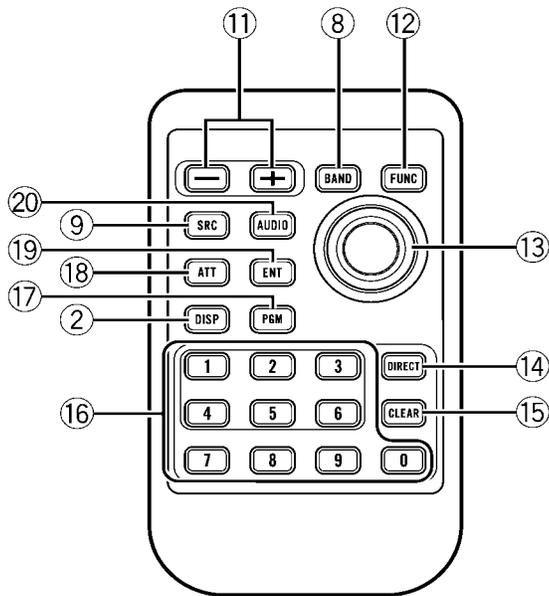
⑫ FUNCTION button

Press to select functions.

⑬ Joystick

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Functions are the same as **MULTI-CONTROL** except for volume control.

A



⑳ **AUDIO button**

Press to select various sound quality controls.

B

C

⑭ **DIRECT button**

Press to directly select the desired track.

⑮ **CLEAR button**

Press to cancel the input number when **0–9** are used.

⑯ **0–9 buttons**

Press to directly select the desired track, preset tuning or disc. Buttons **1–6** can operate the preset tuning for the tuner or disc number search for the multi-CD player.

D

⑰ **PGM button**

Press to operate the preprogrammed functions for each source.

⑱ **ATT button**

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

E

⑲ **ENTERTAINMENT button**

Press to change to the entertainment display.

F

Turning the unit on

- **Press SOURCE to turn the unit on.**

When you select a source, the unit is turned on. 

Selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in the unit.

- **Press SOURCE to select a source.**

Press **SOURCE** repeatedly to switch between the following sources:

XM tuner—SIRIUS tuner—Tuner—Television—DVD player/Multi-DVD player—Built-in CD player—Multi-CD player—iPod—External unit 1—External unit 2—AUX1—AUX2



Notes

- In the following cases, the sound source will not change:
 - When there is no unit corresponding to the selected source connected to this unit.
 - When there is no disc in the unit.
 - When there is no disc in the DVD player.
 - When there is no magazine in the multi-CD player.
 - When there is no magazine in the multi-DVD player.
 - When the AUX (auxiliary input) is set to off.
- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Two external units can be controlled by this unit. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this unit.

- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. 

Loading a disc

- 1 Press EJECT to open the front panel.**

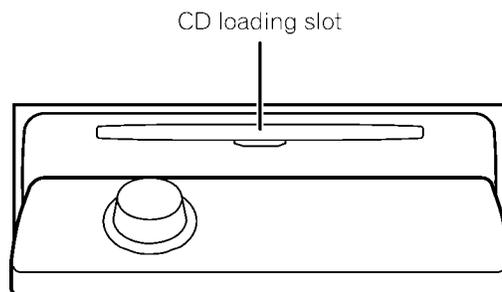
CD loading slot appears.

- After a CD has been inserted, press **SOURCE** to select the built-in CD player.

- 2 Insert a CD into the CD loading slot.**

Front panel is closed automatically, and playback will start.

- With jacket art function on, jacket arts on CD-ROM disc are automatically read in this unit when the disc is inserted. To cancel reading jacket arts, press **BAND**.



- You can eject a CD by pressing **EJECT**.



Notes

- The built-in CD player plays one standard, 12-cm or 8-cm CD at a time. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.
- There is sometimes a delay between starting up CD playback and the sound being issued. When being read, **Format read** is displayed.

A

- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press **EJECT** to eject the disc, and check the disc for damage before inserting it again.
- When the CD loading or ejecting function does not operate properly, you can eject the CD by pressing and holding **EJECT** while opening the front panel.
- If an error message such as **ERROR-11** is displayed.

B

Adjusting the volume

- Use **MULTI-CONTROL** to adjust the sound level.

With the head unit, turn **MULTI-CONTROL** to increase or decrease the volume.

C

With the remote control, press **VOLUME** to increase or decrease the volume.

D

Turning the unit off

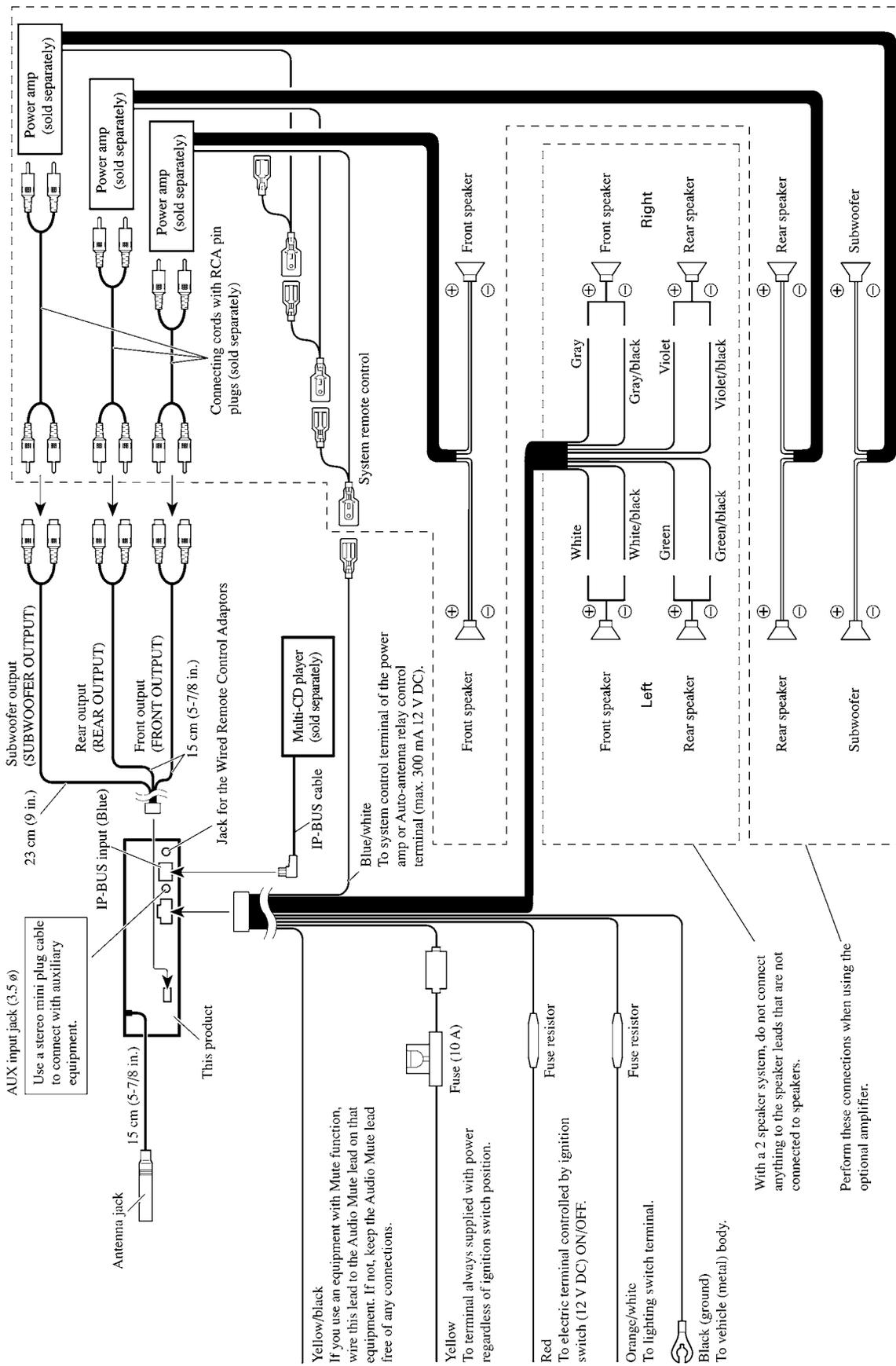
- Press **SOURCE** and hold until the unit turns off.

D

E

F

Connection Diagram



A
B
C
D
E
F

● Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)

● Grease List

Name	Jig No.	Remarks
Grease	GEM1024	CD Mechanism Module
Grease	GEM1045	CD Mechanism Module



Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

Portions to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008