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IZM US

Model DEH-K4141ZM/US
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nada

Australia TEL: [03] 580-9911

FK AUG. 1992 Printed in Japan

TUNE

WIDE

Fig. 1

CD, CASSETTE

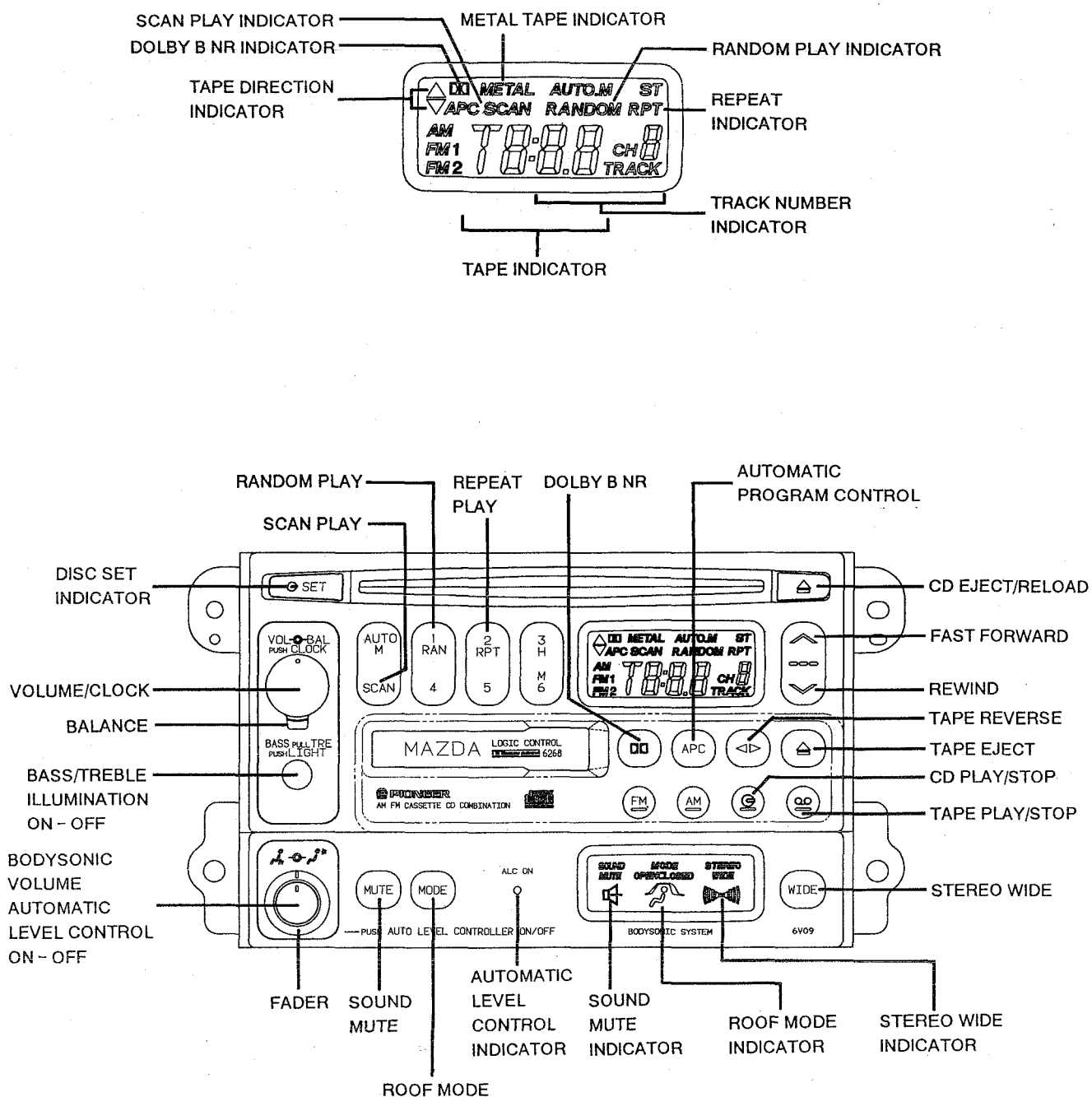


Fig. 2

2. CONNECTOR FUNCTION DESCRIPTION

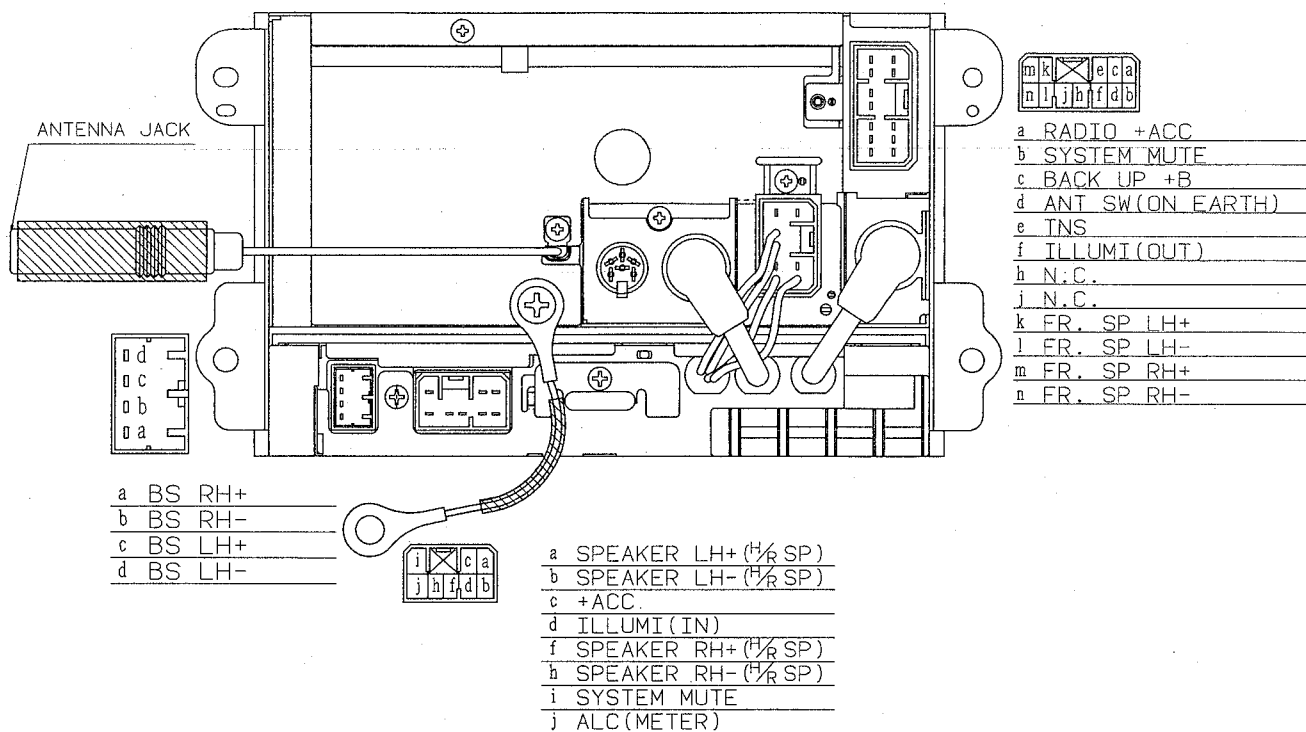


Fig. 3

3. DISASSEMBLY

• Removing the Case Unit

1. Remove the twelve screws, and remove the two brackets.
2. Remove the four screws A.
3. Disconnect the stoppers indicated by arrows, and remove the case unit.

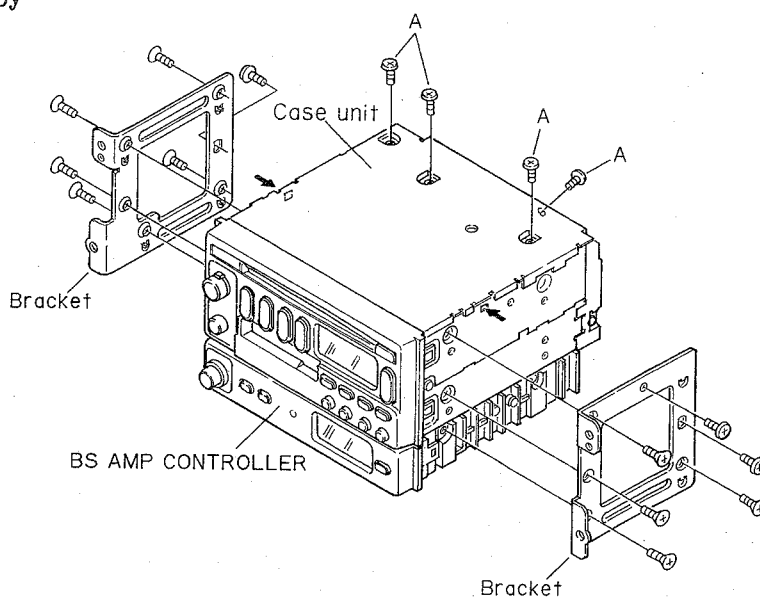


Fig. 4

y arrows.
move

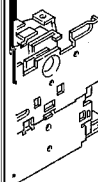


Fig. 7

move

it

D Assy

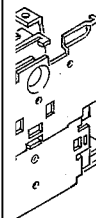


Fig. 8

● Removing the CD Mechanism Unit

1. Remove the three screws.
2. Disconnect the two connectors, and remove the CD mechanism unit.

NOTE: When remove the flexible p.c. board, always insert a shorting pin or insert an inter-pattern short(jumper) before disconnecting the board from the connector.

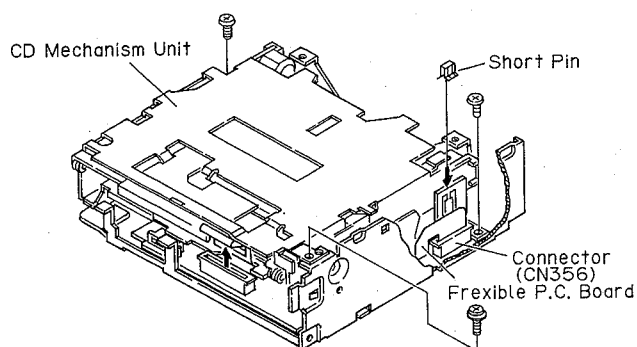


Fig. 9

● Removing the Audio Power Unit(Fig.11)

1. Remove the three screws.
2. Disconnect the connector, and raise the audio power unit to remove from control p.c. board.

● Removing the P.C. Board(Fig. 11)

1. Disconnect the connector, and raise the p.c. board to remove from control p.c. board.

● Removing the Dolby NR P.C. Board(Fig.11)

1. Disconnect the connector, and raise the dolby NR p.c. board to remove from control p.c. board.

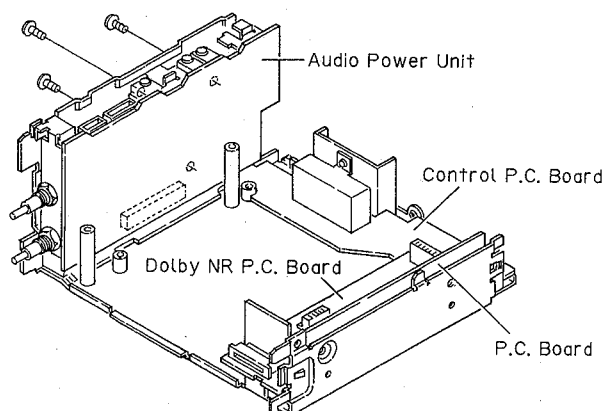


Fig. 11

● Removing the Cassette Mechanism Assy

1. Remove the two screws, and remove the bracket.
2. Disconnect the two connectors.
3. Remove the four screws, and remove the cassette mechanism assy.

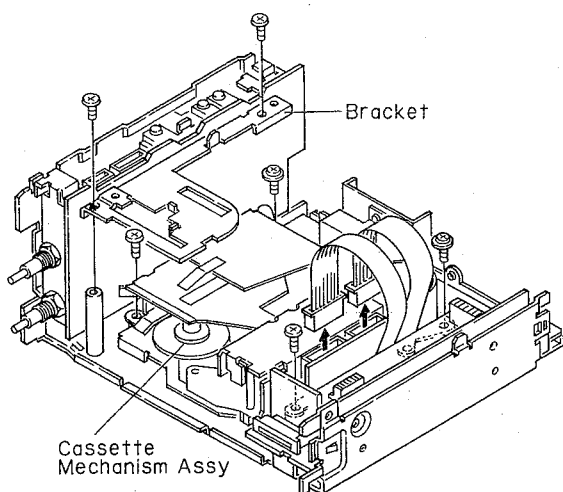


Fig. 10

SQUARE FORM WAVE

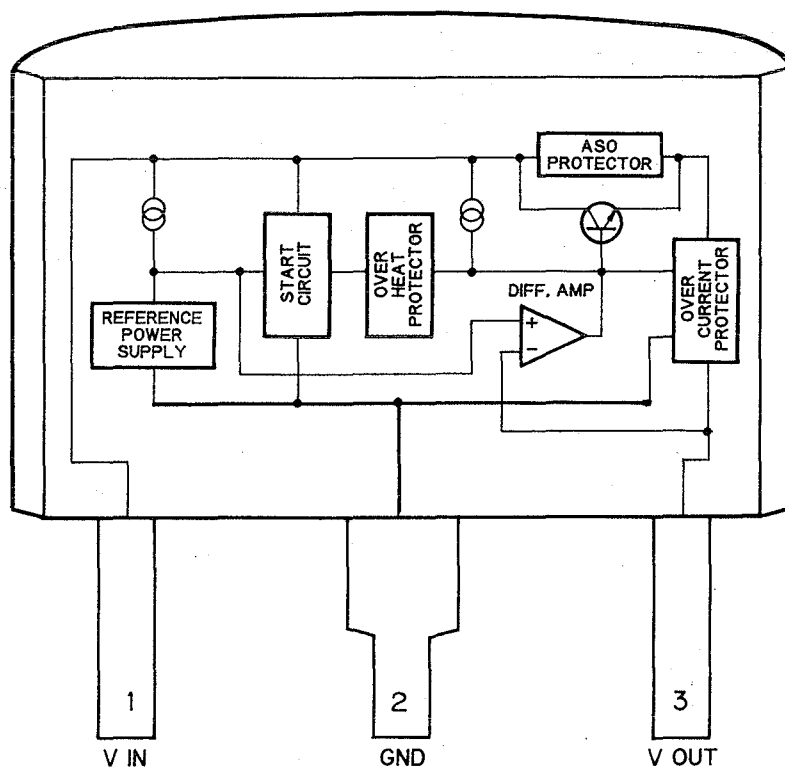
5Vp-p

OSCILLATOR

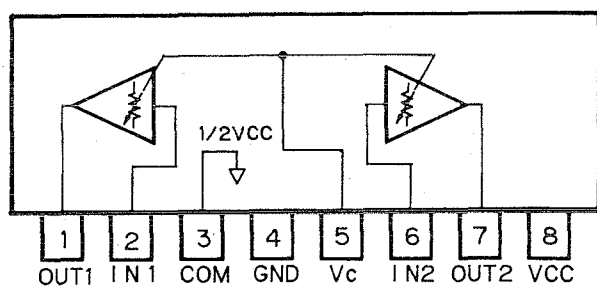
Fig. 12

- ICs
- Amp Unit

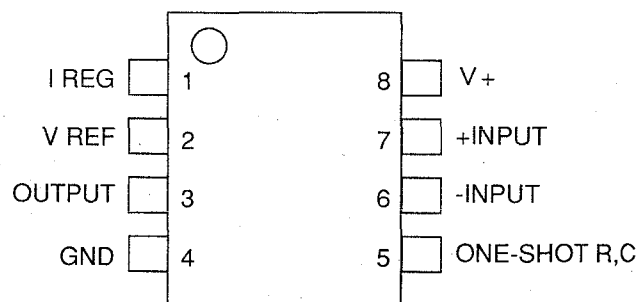
IC464:M5237L

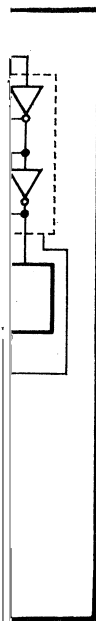


IC459:M5222L

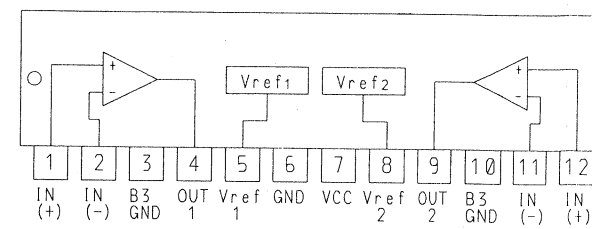


IC452:NJM4151D

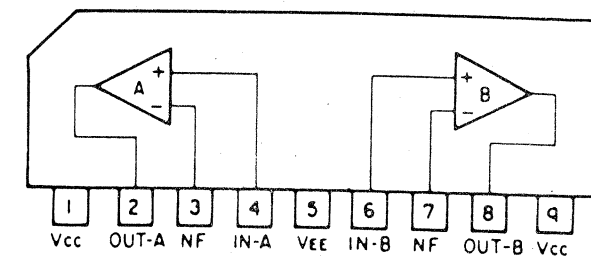




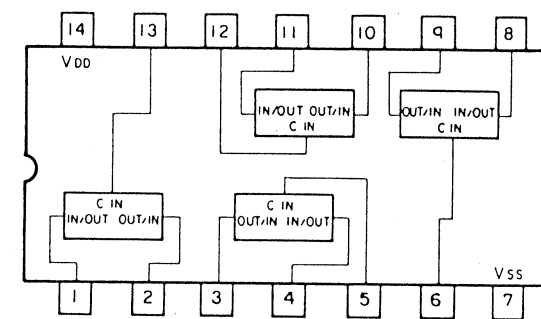
IC451:TA8181SN



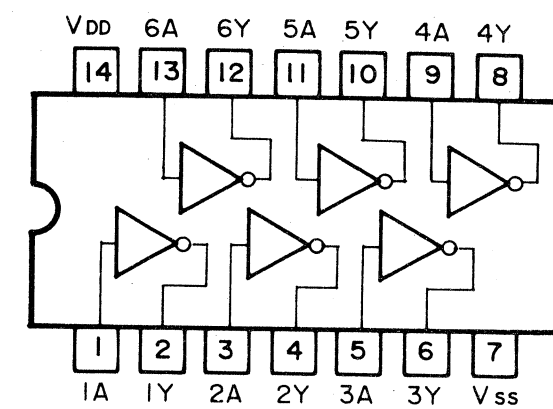
IC453, 454, 457, 460~463, 551:NJM2068S



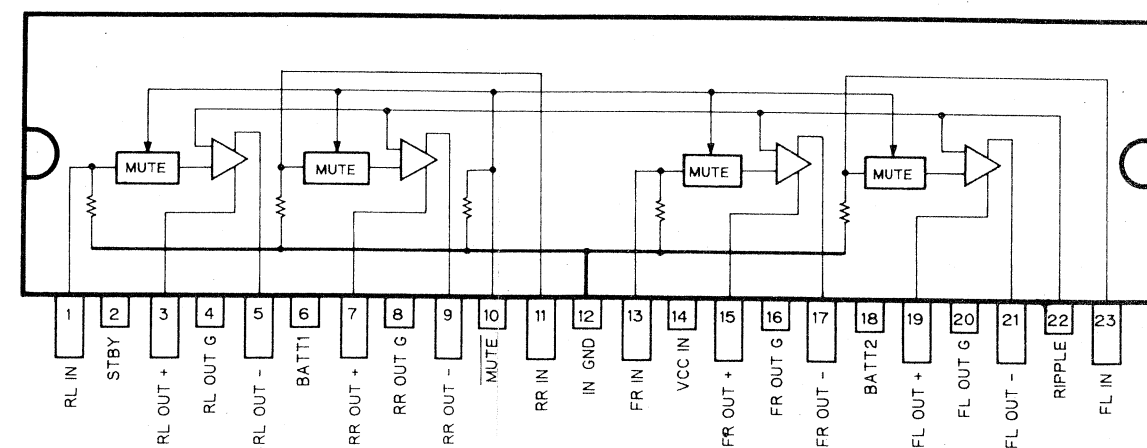
IC455:TC4066BP



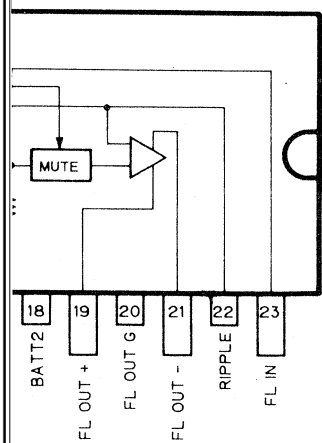
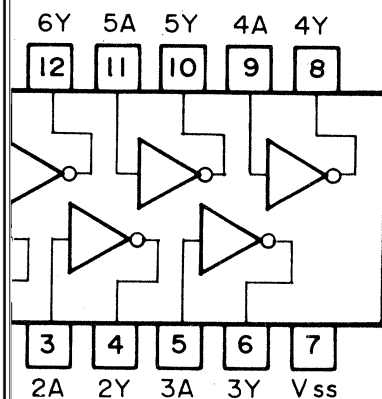
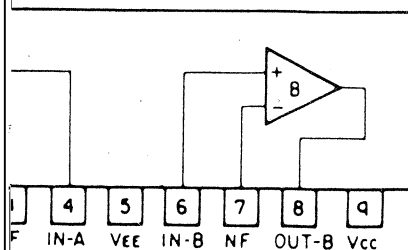
IC901:TC4069UBF



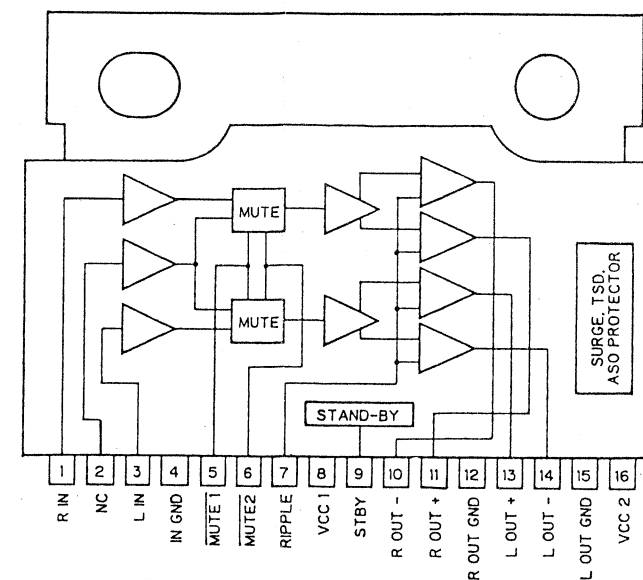
IC552:PA3027A



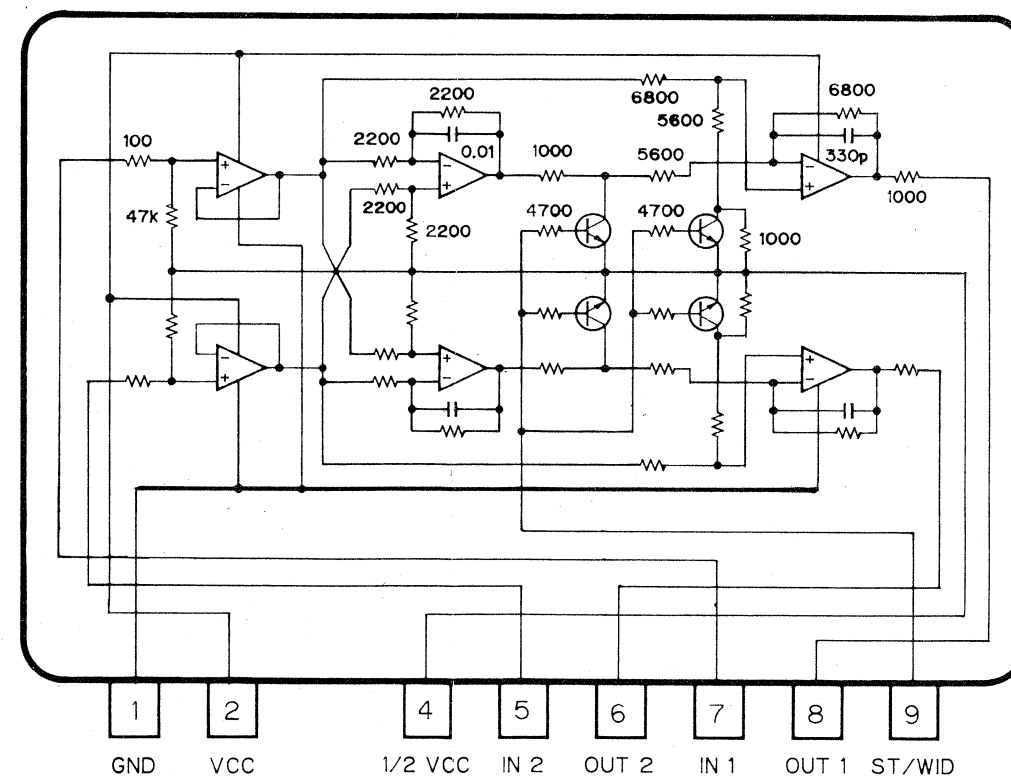
463, 551: NJM2068S



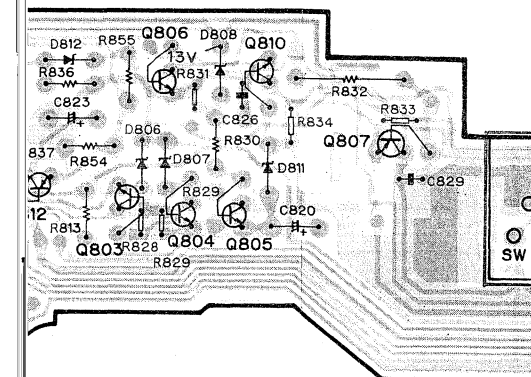
IC553: HA13139



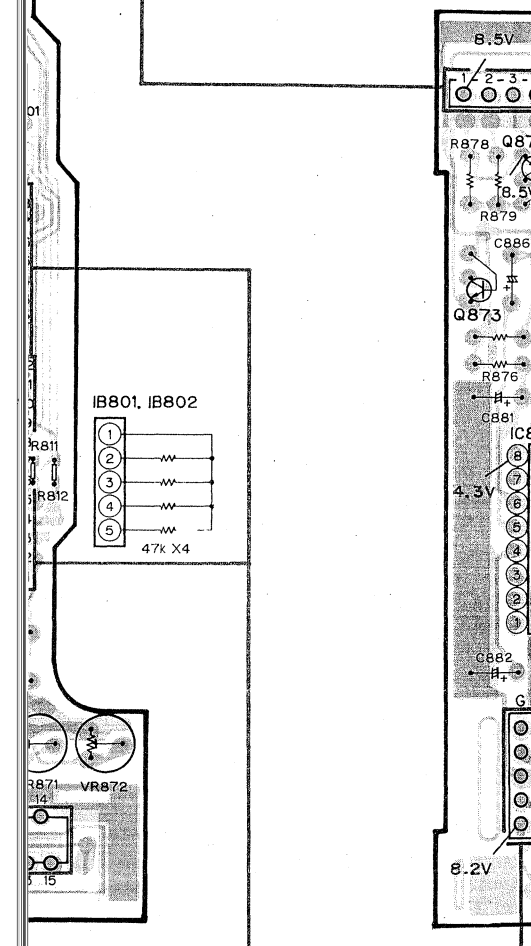
IC458: CWW1085



Q805
2 Q803 Q806 Q804 Q810 Q807
1 VR872



IC, Q Q873 Q87



TO
P.C. BOARD UNIT

TO
AMP P.C. BOARD

A

B

TO AUDIO POWER
UNIT
J

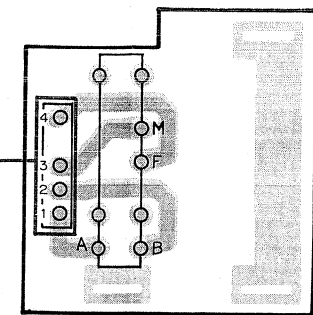
C

TO CD UNIT
L

D

Fig. 13

CONNECTOR
P.C. BOARD



CONTROL P.C. BOARD

A

B

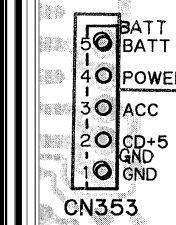
C

D

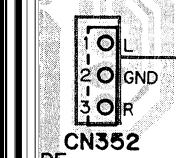
Fig. 14

Q759
Q760

Q08



DISOG



DE

Q760

759

789

ND

:754

354



TO
AUDIO POWER
UNIT O

TO
AUDIO POWER
UNIT N

TO
CONTROL P.C.
BOARD L

Fig. 19

Q
8 Q
7 IC

B
8.7

R5

4.6

Q

R500

498

R4

494

494

OV

C

B

505

482

R

466

R

R4

B

482

512

R47

R4

R

B

47

8.7

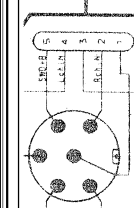
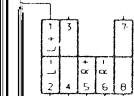
A

B

C

D

FRONT OUTPUT



INPUT
OL P. C. BOARD

Fig. 20

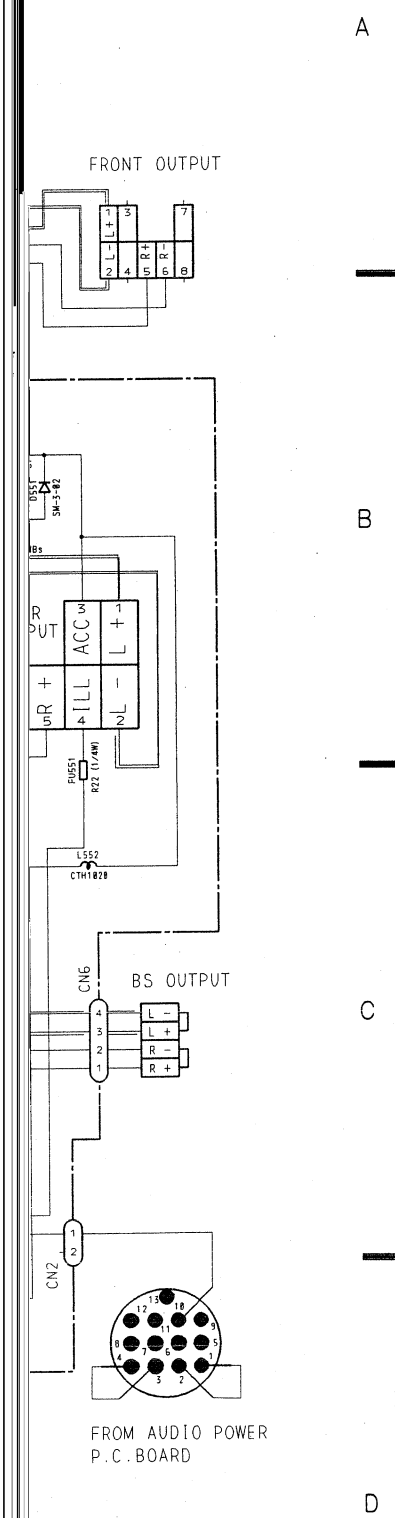


Fig. 21

A

B

C

D

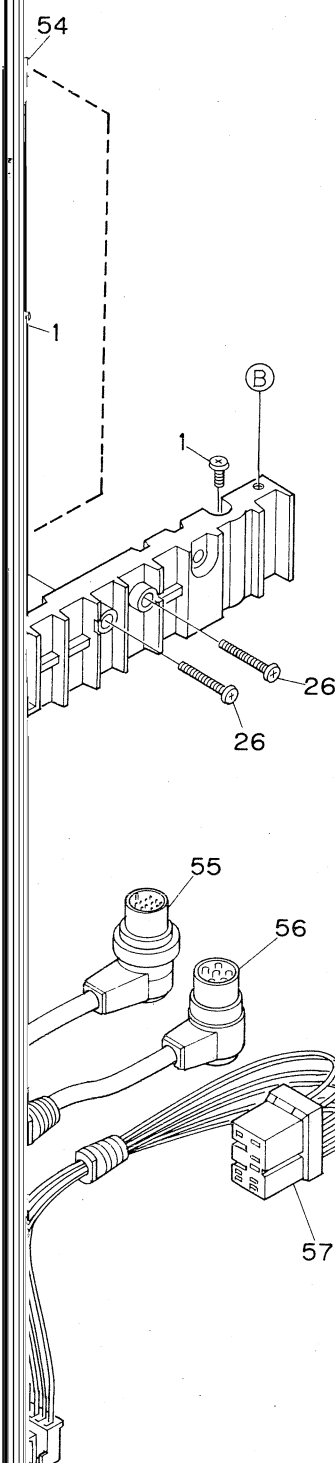


Fig. 22

NOTES:

- Parts marked by "*" or "*" are generally unavailable because they are not in our Master Spare Parts List.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
	1 Screw	BMZ30P050FMC		31 Nut	CBA-067
*	2 Case	CNB1617	*	32 Holder	CNC4266
	3 Screw	BPZ20P080FMC		33 Insulator	CNM3485
	4 Connector	CDE3692	*	34 Plug	CKS-557
	5 Holder	CNV2984	*	35 Plug	CKS2084
	6 Lamp(IL1-4)	CEL1302		36 Plug	CKS-566
	7 Spacer	CNV3021	*	37 Holder	CNC4264
	8 Lamp(IL5)	CEL1287		38 Plug	CKM1035
	9 Holder	CNV3164		39 Connector	CDE3693
	10 Holder	CNV3165	*	40 Holder	CNC4265
	11 Lens	CNV3162		41 Transistor(Q559)	2SA1358
	12 Lens	CNV3225		42 Transistor(Q562)	2SD1267
	13 Lens	CNV3163		43 Transistor(Q561)	2SB1144
	14 Plate	CNM3412	*	44 Holder	CNC4263
	15 LCD	CAW1185		45 IC(IC553)	HA13139
	16 Holder	CNC4361	*	46 Heat Sink	CNR1243
*	17 Spacer	CNM3551		47 Plug	CKS1042
	18 Button(MUTE)	CAC3276		48 Spacer	CNM3492
	19 Button(MODE)	CAC3277	*	49 Insulator	CNM3346
	20 Button(WIDE)	CAC3278		50	
	21 Cover	CNM3483		51 Bracket	CNC4267
	22 Cover	CNM3484	*	52 Chassis	CNA1459
	23 Grille Unit	CXA5330	*	53 Insulator	CNM3486
	24 Knob	CAA1297	●	54 Amp Unit	CWM3244
	25 Knob	CAA1296		55 Cord	CDE3738
	26 Screw	BMZ30P200FMC		56 Cord	CDE3676
*	27 Heat Sink	CNR1244		57 Connector	CDE3696
	28 IC(IC552)	PA3027A			
*	29 Holder	CNC4262			
	30 Volume(VR501/SW501)	CCS1202			

VIEW (2)

Q.	Mark No.	Description	Part No.
2		31 Button (FM)	CAC3271
7		32 Button (AM)	CAC3272
3		33 Button (CD PLAY)	CAC3273
2		34 Button (TAPE PLAY)	CAC3274
2		35 Knob	CAA1294
2		36 Knob	CAA1293
6		37 Knob	CAA1295
3		38 Spring	CBH1044
2		39 Door	CAT1458
0		40 Grille Unit	CXA5329
0		41 Screw	BPZ20P080FMC
1		42 Screw	CMZ50P080FMC
6		43 Screw	BMZ50P080FMC
4		44 Bracket	CNC4269
3		45 Screw	BMZ30P050FMC
7	*	46 Case Unit	CXA3249
3		47 Screw	BMZ26P050FMC
5		48 Screw	PMA26P100FMC
9	⊙	49 CD Mechanism Unit	CXK2420
0	*	50 Cushion	CNM1999
2		51 Screw	PMF26P050FMC
3		52 Bracket	CNC4268
4			
5			
5			
6			
7			
8			
9			
0			

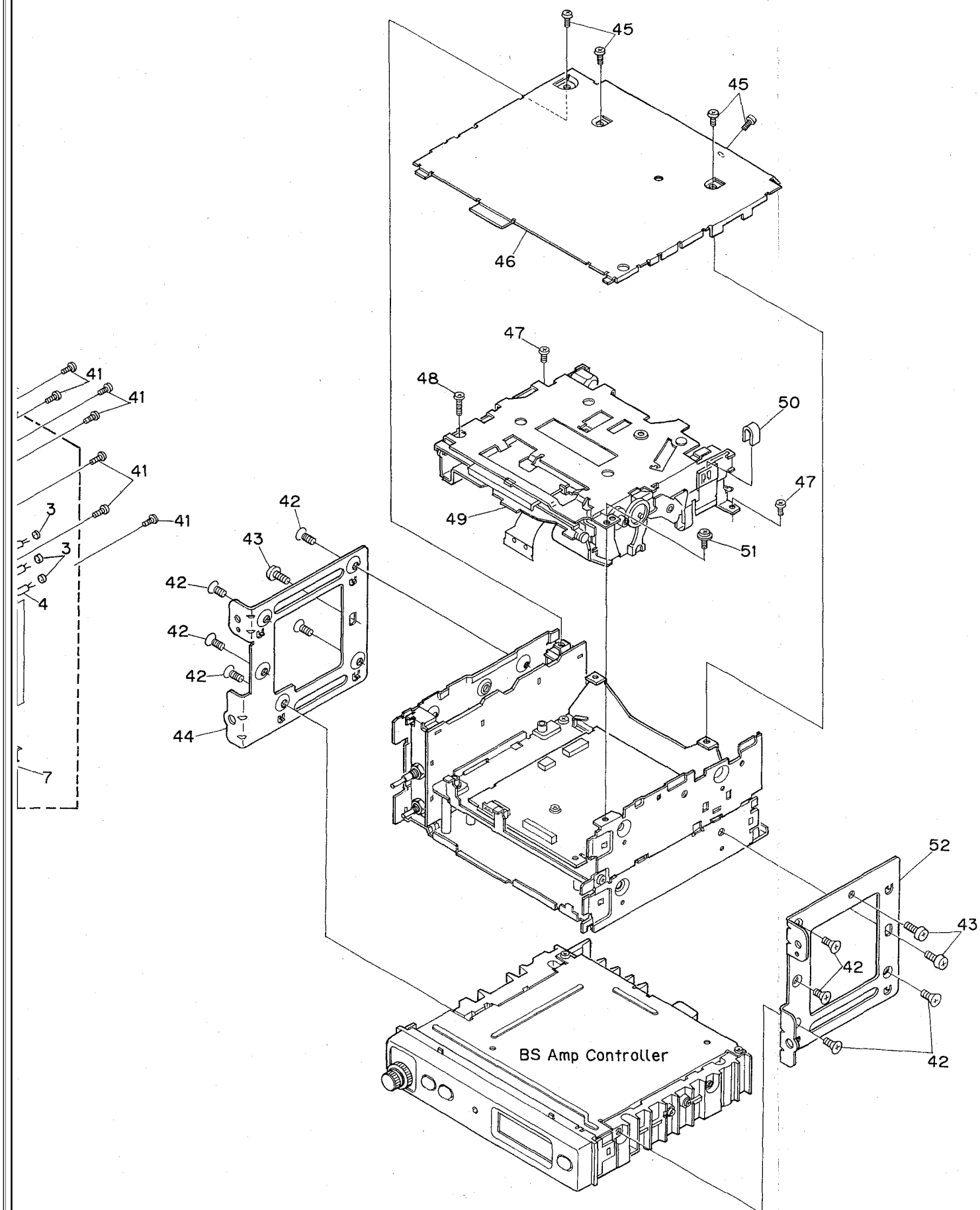


Fig. 23

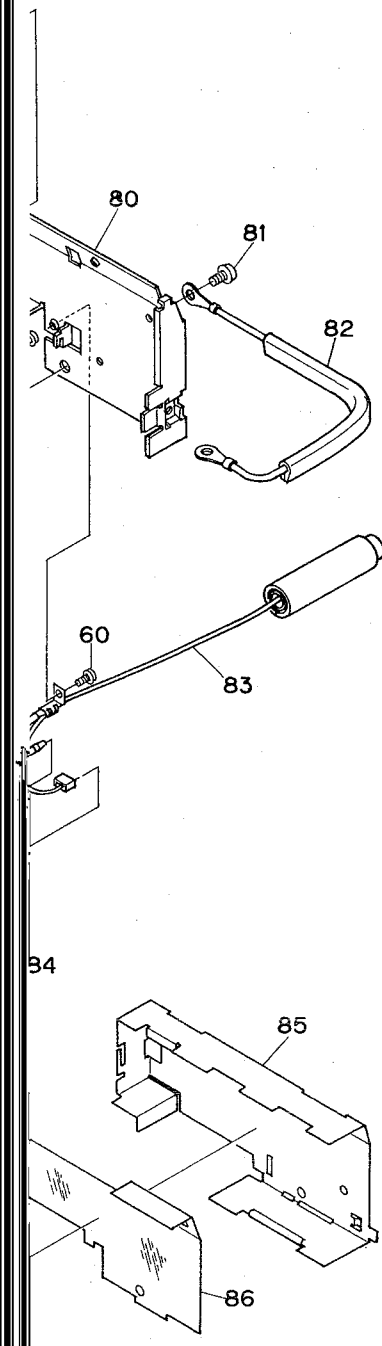
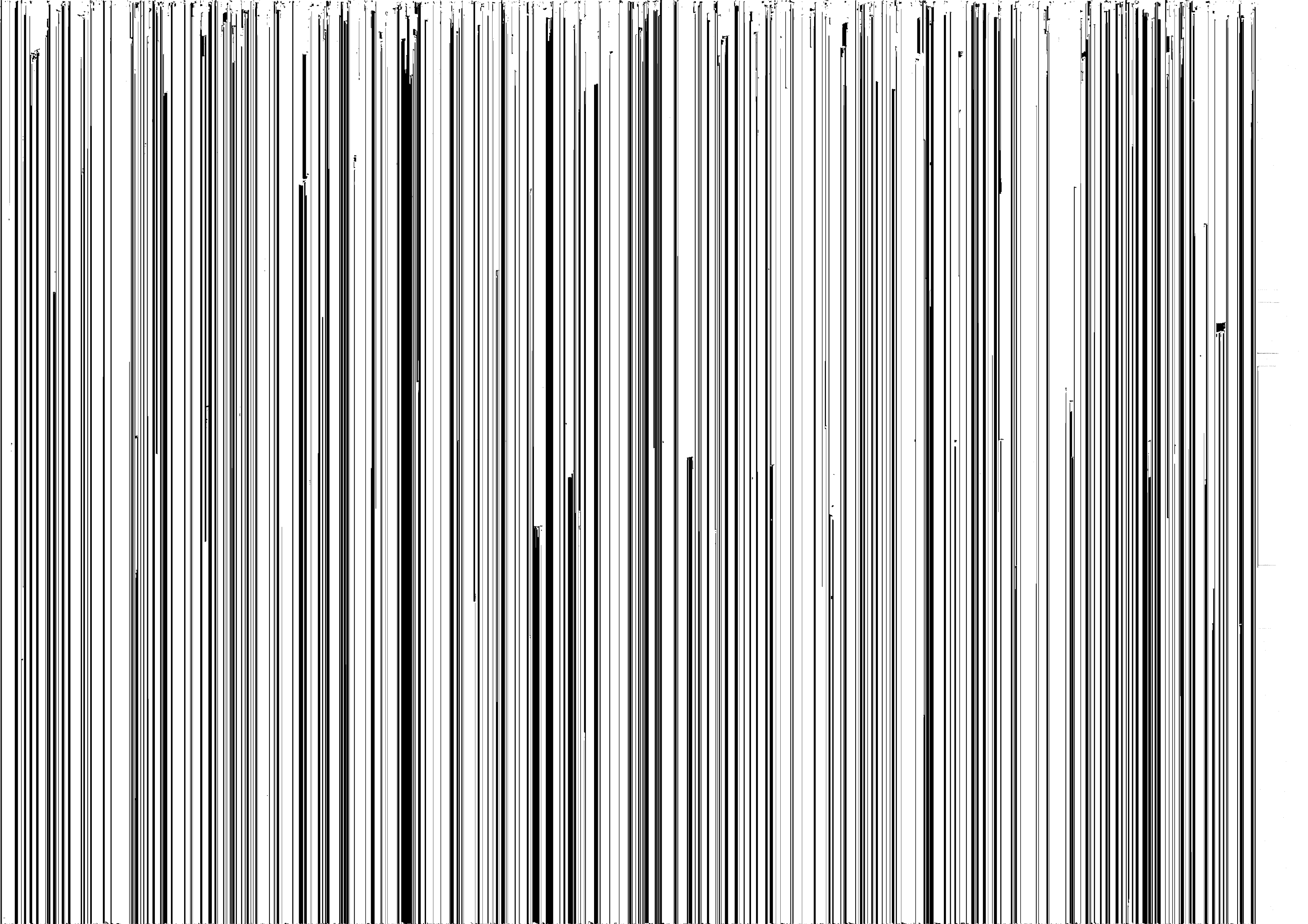


Fig. 24



UNIT EXPLODED VIEW

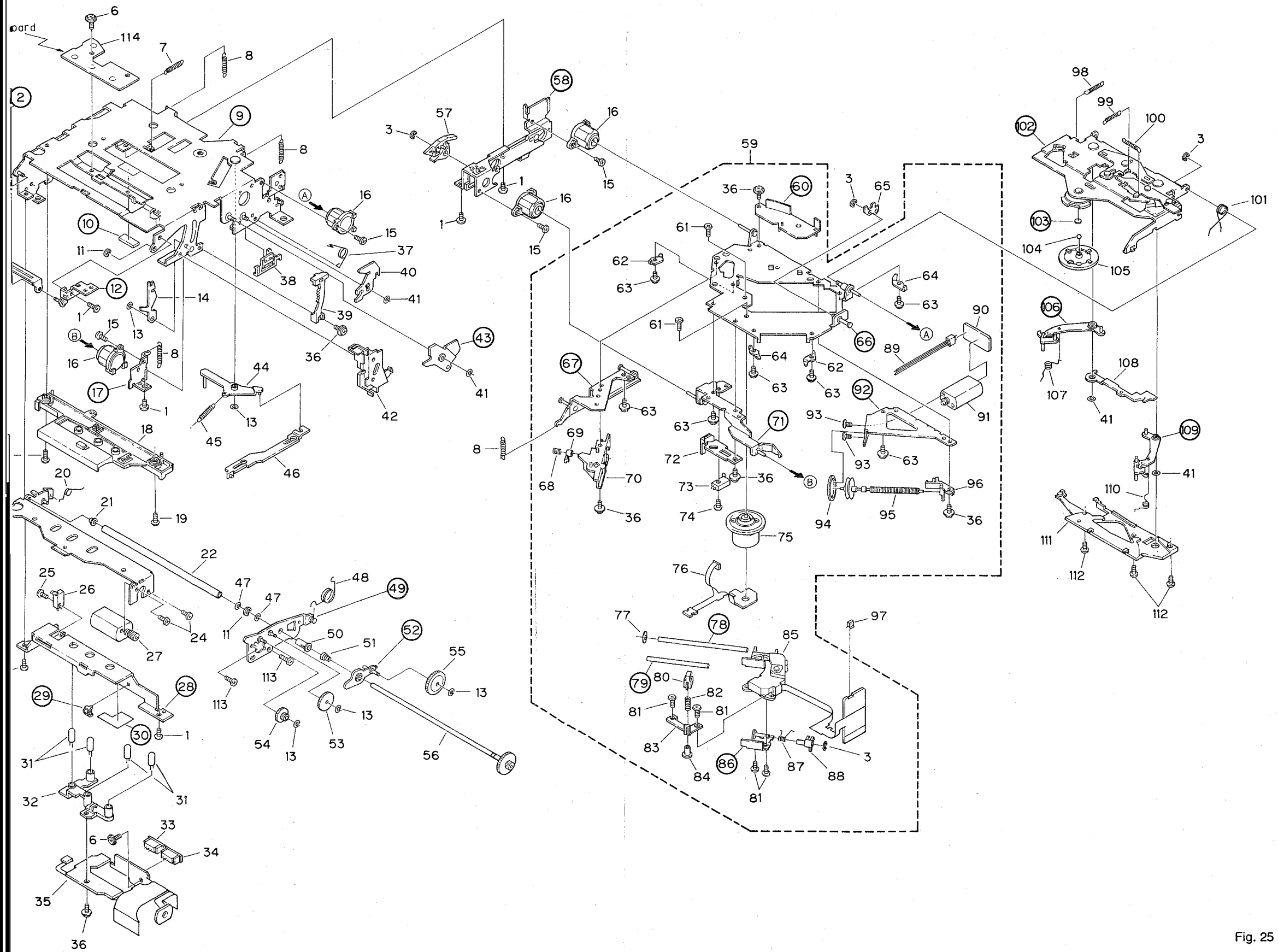


Fig. 25

rt No.	Mark No. Description	Part No.
V2485	95 Screw Unit	CXA2375
A2993	96 Holder	CNV1781
V2229	97 Short Pin	CBL1010
N1018	98 Spring	CBH1292
A1070	99 Spring	CBH1297
M1054	100 Spring	CBH1296
P2383	101 Spring	CBH1294
V1863	102 Arm Unit	CXA3470
A1197	103 Spacer	CNM1787
A1196	104 Ball	CNR1079
V1512	105 Clamper	CNV2411
A1062	106 Arm Unit	CXA3471
H1105	107 Spring	CBH1295
C1736	108 Arm	CNV2228
A1319	109 Arm Unit	CXA3472
Y1015	110 Spring	CBH1293
A1860	111 Guide	CNV2223
H1106	112 Screw	CBA1084
V1513	113 Screw	BMZ20P030FMC
E2849	114 P.C. Board	CNP2367
P2384		
A3347		
C3288		
A-098		
T1020		

15. CASSETTE MECHANISM ASSY EXPLODED VIEW (X-0 Mechanism)

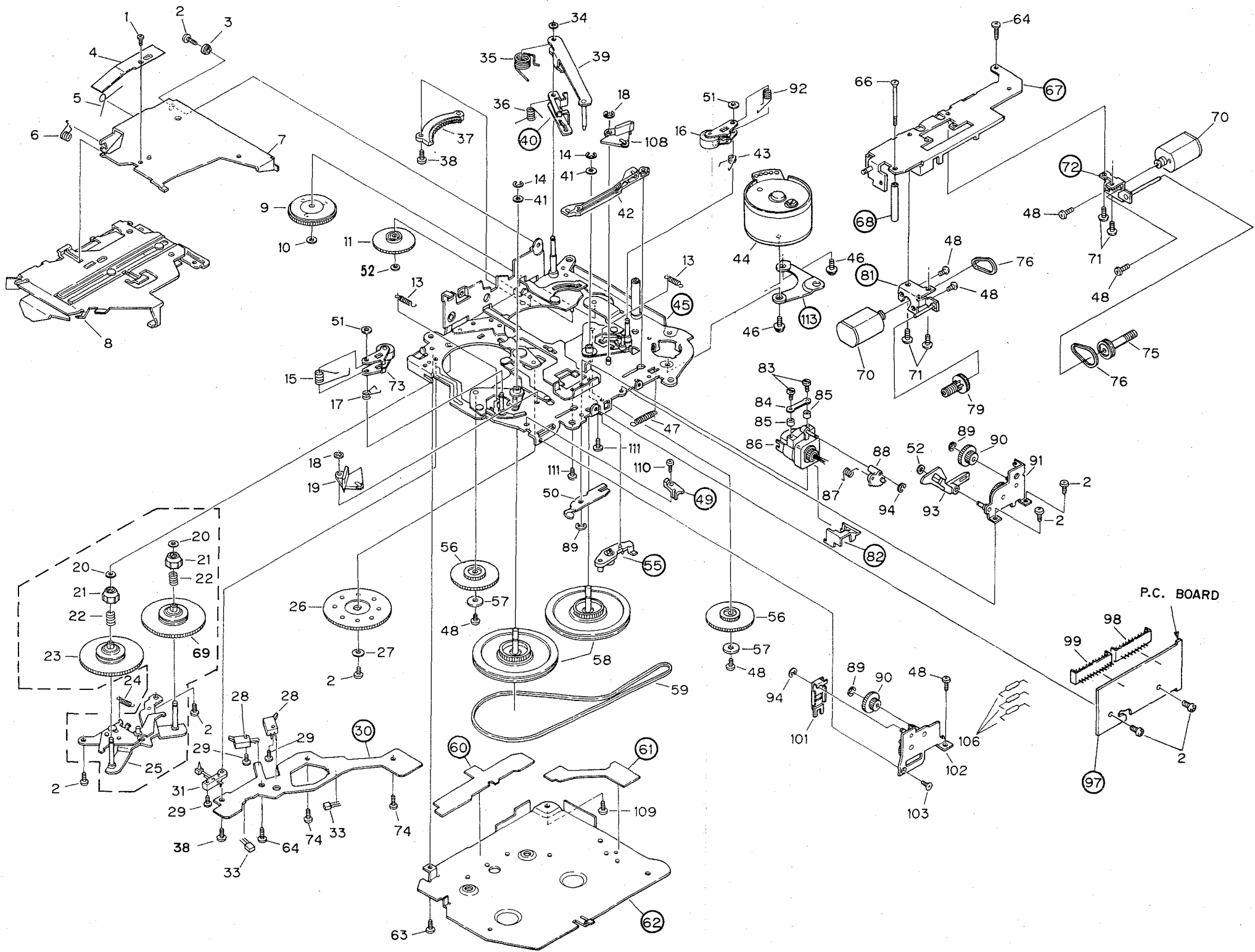


Fig. 26

ion	Parts No.	Mark No. Description	Parts No.	Mark No. Description	Parts No.
	CBH-886	71 Screw	HBA-174	91 Holder Assy	CXA5014
	CNV1075	72 Bracket Unit	CXA2605	92 Spring	CBH1276
2×5)	CBA1054	73 Pinch Roller Unit	CXA2609	93 Arm	CNV1495
	CXD-389	74 Screw (M2×2.5)	CBA1037	94 Washer	YE15FUC
	CNG-618	75 Pulley	CNV1255	95	
	HBH-179	76 Belt	CNT1047	96	
	CNV1257	77		97 P.C. Board	CNP2155
	CBH1196	78		98 Connector (8P)	CKS1055
upstan)	CXM1055	79 Pulley	CNV1256	99 Connector (12P)	CKS1059
Unit	CXA2808	80		100	
	PMS26P035FMC	81 Bracket Unit	CXA2606	101 Arm	CNH-004
	CBH-830	82 Cover	CNV1489	102 Holder Assy	CXA5013
2×2.5)	HBA-175	83 Screw (M1.4×8)	CBA1169	103 Screw (M2×2)	HBA-209
	CNW-945	84 Spring	CBE-114	104	
	CBL1050	85 Azimuth Rubber	CNY-134	105	
	CBF1025	86 Head Unit	CXA2462	106 Diode	1S1555
	CBF-126	87 Spring	CBH-829	107	
		88 Gear	CNW-939	108 Arm	CNV1253
		89 Washer	YE12FUC	109 Screw (M2×7)	CBA1060
	CNV1079	90 Gear	CNV1262	110 screw (M2×4)	CBA1015
	CNV1616			111 Screw (M2×2.5)	CBA1041
	CLA1238			112	
	CNV1572			113 Bracket	CNC2324
	CNT1046				
or	CNN-332				
or	CNN-333				
	CNG-625				
	BMZ20P030FMC				
7×6.0)	CBA1125				
2×25)	CBA-165				
	CNC2219				
	CNC1651				
it	CXA4023				
nit	CXA3596				
Head)					

of & No. Part	Name=====	Part No.
16 237		RS1/10S472J RS1/10S392J RS1/8S472J RS1/10S333J RS1/10S182J
28 241 242		RS1/10S101J
32 243 244		RS1/10S223J RS1/10S103J RS1/8S333J RS1/8S103J
		RD1/4PS221JL RD1/4PS561JL RS1/8S152J RD1/2VS102JL RS1/8S223J
		RS1/8S102J RD1/4PS101JL RS1/10S223J RD1/4PS223JL RD1/4PS103JL
		RS1/10S0R0J RD1/4PS223JL RD1/2PS681JL RD1/2PS271JL CCN1064
	Fuse Resistor.	
04		CEA100M16LS2 CEA2R2M50LS2 CKSYF105Z25 CEAS101M10 CEAR22M50LS2
		CEAR22M50LS2 CEAS010M50 CEA010M50LS2 CEA4R7M35LS CEAS4R7M35
24 225 226		CEA101M10LS CKSQYB223K25 CEAS221M10 CKSQYB153K50 CEAS470M25
		CKSQYB473K25 CEAS100M50 CCH1003 CCH-123
47 1000 μ F/16V 2200 μ F/16V		
	Board Unit	
		LC7582ASP DTC144TF AA5553K CEL1292 CEL1302
107	LED Lamp 60mA 8V 908 Lamp 65mA 14V	CEL1302
112 Lamp 65mA 14V		CEL1302
104 905906 907 908	Switch	CSG-253
112 913914 915 916	Switch	CSG-253
	LCD	CSG-253 CWW1173
		RD1/4PS104JL RN1P1RSJL CKPYB331K50L CKPYF223Z25L

1.

S472J
S562JL
S563J
S103J
S822J

S473J
S472J
S182J
S152JL
S682J

S122JL
S472JL
S202JL
S363J
S623JL

S394J
S223J
S124J
S102JL
S203J

S122J
S391J
S221JL
S561JL
S222JL

S822JL
S202J
S332JL
S332J
S153J

S2R2J
S221J
S103J
S2R2J
S103JL

S223JL
S752JL
S563J
S472J
S104J

S473J
S684J
S151J
S683J
S562J

S153JL
S223J
S561JL
S103J
S151J

S105J
S104J
S222J
S101J

S7M35
S3M50
S0M16
S0M50
S2J50

S81K50
S101J50
M16NPLL
M50NPLL
S4J63

No. Part	Name=====	Part No.
Trimmer		CCG-070 CWW1087 CWW1048 CSS1023 VRTB4VS471
Crystal Resonator Semi-fixed 470 Ω (B)		
811 812 846 847 848 849		RS1/10S472J RS1/10S392J RS1/10S684J RS1/10S562J RS1/10S473J
828 881 882		RD1/4PS473JL RD1/4PS104JL RS1/10S681J RS1/10S682J RS1/10S103J
841 842		RS1/10S223J RS1P561JL RS1/8S223J RS1/8S222J RD1/4PS102JL
884		RD1/4PS561JL RS1P101JL RS1/8S561J RS1/10S472J RD1/4PS332JL RD1/4PS101JL RD1/4PS433JL RD1/4PS103JL RD1/4PS223JL RD1/4PS821JL
822 825		CEA220M16LS CEA101M16LL CKSYB223K25
809 810		CKSYF473Z50 CCSQCH330J50
826 827		CKSQYB392K50 CKSYF104Z25 CEA470M16LS CKSQYF473Z25 CKSQYB223K25
		CEA010M50LS2 CEAR68M50LS2 CKSQYB561K50 CEANL4R7M35LL CEAS470M16
		CEA101M10LS CEA010M50NPLL CEAR15M50LS2 CEA4R7M35LS
706 707		CXA1081M CXA1082BQ M5218FP LA6515 LA6501-FA CXD1135Q LH5116HN-10T SM5807ES-M LC7881MBM UPC358G2

-----Circuit Symbol & No. Part	Name-----	Part No.
IC 751		PD4253
IC 754		M54546AL
Q 351		2SB1243
Q 352 705 760		UN2211
Q 601 701		UN2211
Q 602 603 707 708		2SD1048
Q 651		2SC3474
Q 652 759		UN2111
Q 653		2SC2712
Q 702 706		UN2111
Q 703 704		UN2215
Q 758		2SD1859
D 652		HZS11JB1
D 653		RB100AVH
D 661 662		HZS2ALL
D 701 703		MA151WA-MN
D 702		MA151WA-MN
D 755		HZS6R8JB3
D 761		ERA15-02VH
TH 351	Thermister	CCX1001
TH 751	Thermister	CCX-021
X 701	Crystal Resonator	CSS1052
X 751	Ceramic Resonator	CSS-042
VR 351	Semi-fixed	CCP1005
VR 352	Semi-fixed	CCP1006
VR 604	Semi-fixed2.2kΩ (B)	CCP1015
VR 651	Semi-fixed47kΩ (B)	CCP1023
RESISTORS		
R 321 744 770 771 790 797		RS1/10S222J
R 322 774		RS1/10S333J
R 323 631 636 642 652 657 690		RS1/10S272J
R 324 699 741 742		RS1/10S102J
R 325 707		RS1/10S0R0J
R 331 663		RS1/10S5R6J
R 332 334 691 695 709		RS1/10S103J
R 333 335 336 683 684 687 693 696		RS1/10S2R2J
R 341		RD1/4PS221JL
R 344 367 637 643 673		RS1/10S473J
R 345		RS1/10S472J
R 351		RD1/4PS120JL
R 352		RD1/4PS100JL
R 353 381 651 653 655 658 659 723 724 740		RS1/10S102J
R 354 378 616 628		RS1/10S153J
R 355		RS1/10S113J
R 356 357		RS1/10S563J
R 358 359 669		RS1/10S563J
R 360 608		RS1/10S823J
R 361 383 685		RS1/10S823J
R 362 763		RS1/10S564J
R 363		RD1/4PS223JL
R 364 365 618 671		RS1/10S105J
R 366 665		RS1/10S562J
R 377		RS1/10S562J
R 379 705		RS1/10S332J
R 380 625		RS1/10S203J
R 382 667		RS1/10S363J
R 384 630		RS1/10S273J
R 601 602		RS1/10S101J
R 606 623		RS1/10S224J
R 607		RS1/10S683J
R 609 619		RS1/10S104J
R 610		RS1/10S113J
R 611		RS1/10S432J
R 612		RS1/10S623J
R 613		RS1/10S624J
R 614		RS1/10S104J
R 617		RS1/10S203J
R 620 654 656 660		RS1/10S272J

-----Circuit Symbol & No. Part	Name-----	Part No.
R 621		RS1/10S184J
R 622 670 755 768		RS1/10S103J
R 624 666		RS1/10S393J
R 627 725 726 773 780		RS1/10S104J
R 634		RS1/10S474J
R 635		RS1/10S752J
R 641		RS1/10S113J
R 661 664 679		RD1/4PS103JL
R 662 675 678 680 688 689 692 703 751 752		RS1/10S103J
R 668		RS1/10S183J
R 672		RS1/10S364J
R 674		RS1/10S133J
R 676 677		RD1/4PS201JL
R 681 682		RD1/4PS2R2JL
R 686 698		RS1/10S223J
R 694		RS1/10S822J
R 697		RS1/10S473J
R 704 729 745 746		RS1/10S472J
R 706		RS1/10S0R0J
R 711 712 719 720		RS1/10S511J
R 713 714		RS1/10S181J
R 715 716		RS1/10S244J
R 717 718		RS1/10S102J
R 721 722 786		RS1/10S822J
R 730		RS1/10S682J
R 731 732 733 734 735 736		RN1/10SE472D
R 737 738		RN1/10SE472D
R 743 775 792		RS1/10S222J
R 747		RS1/10S391J
R 748 753 754 756 766 767 779		RS1/10S681J
R 772 793		RD1/4PS333JL
R 789		RS1/10S821J
R 791		RD1/4PS104JL
R 798 799		RS1/10S151J
CAPACITORS		
C 351 707 722 737 738 755 760		CEA101M6R3LS
C 352 672 676 683 710 730 758		CKSQYB103K50
C 353 654		CKSQYB333K25
C 354		CASA150M6R3
C 355 611 625 626 652 682		CKSQYB103K50
C 356		CKSQYB332K50
C 357 614 630 663 664 665 666 671		CKSYB224K25
C 358 607 668 669 675 677		CKSYB473K50
C 360 361 651 653		CKSYB224K25
C 370 373		CCSQCH220J50
C 371 615		CKSQYB102K50
C 372		CCSQCH150J50
C 601		CKSQYB222K50
C 605 656		CKSYB104K25
C 606 616		CEA220M16LS
C 608		CEALNP220M6R3
C 609 715 716 756		CKSQYB472K50
C 610		CCSQCH221J50
C 612 620 678 701 705		CKSYB104K25
C 613		CKSQYB333K25
C 617		CEA4R7M50LS
C 618		CKSQYB272K50
C 619		CKSQYB182K50
C 621		CEALNP4R7M35
C 623		CKSQYB222K50
C 627		CCSQCH220J50
C 655		CCSQSL681J50
C 657		CKSYB393K25
C 659		CEA100M25LS
C 660		CASA100M6R3

====Circuit Symbol & No. Part	Name=====	Part No.
▷ 661	470 μ F/16V	CCH-114
▷ 662		CEA100M25LS
▷ 673		CKSYB224K25
▷ 703 704		CCSQCH090D50
▷ 708		CEA101M6R3LS
▷ 709 740		CKSYB103K50
▷ 711 712		CEALNP330M10
▷ 713 714		CKSYB683K25
▷ 717 718		CCSQCH471J50
▷ 719 720		CKSQYB822K50
▷ 724		CKSQYB222K50
▷ 731 732		CCSQCH331J50
▷ 733 734		CCSQCH331J50
▷ 735 736		CEA330M6R3LS
▷ 751		CKSYF105Z25
▷ 752 753		CCSQCH300J50
▷ 757		CEA6R8M35LS
Jnit Number :		
Jnit Name : Carriage P.C.Board		
M 831	Motor Unit(Spindle)	CXM1054
M 832	Motor Unit(Carriage)	CXA3347
S 831	Switch(Home)	CSN1018
Jnit Number :		
Jnit Name : Mechanism P.C.Board		
▷ 831 832 833 834	LED(Disc Detect)	SLR-981A
M 833	Motor Unit>Loading)	CXA2129
S 832	Switch(Disc Set)	CSN1020

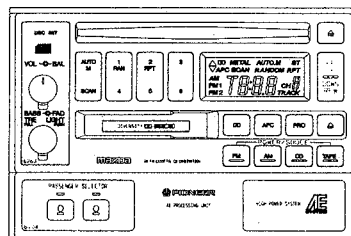
====Circuit Symbol & No. Part	Name=====	Part No.
Unit Number :		
Unit Name : Detector P.C.Board		
Q 831 832 833 834	Photo-Transistor	PH102
Unit Number :		
Unit Name : Switch P.C.Board		
S 1	Switch(CST SET)	CSN-089
S 2 3	Switch(CST IN,70 μ S)	CSN1023
MR 1 2	Magnetic Resistive Device	DM-106B
Unit Number :		
Unit Name : P.C.Board Unit		
D 1 2 3		1S1555
Miscellaneous Parts List		
HD 1	PU Unit	CGY1015
M 1 2	Head Unit	CXA2462
M 3	Motor Unit(Head,FF/REW)	CXA3596
BZ 801 (P.C.Board)	Motor(Capstan)	CXM1055
	Buzzer	CPV1005
VR 1 (Audio Power Unit)		CCS1211
	Volume/Switch 50k Ω (M),50k Ω (N),20k Ω (C)X2	
VR 2 (Used Audio Power Unit)Volume 50k Ω (B)X2		CCS1205

2407

Service Manual

PIONEER
The future of sound and vision.

• DEH-K4041ZM



**ORDER NO.
CRT 1196**

TUNER DECK • CD AMPLIFIER

DEH-K4041ZM US

DEH-K4141ZM US

TUNER DECK • CD PLAYER

DEX-K4141ZM-91 US

AE AMPLIFIER

XF-4041ZM-91 US

XF-4141ZM-91 US

• These models have been installed in MAZDA RX-7.

US

	MAZDA No.
DEH-K4041ZM	FC04 66 9W0
DEH-K4141ZM	FC32 66 9W0
DEX-K4141ZM-91	FC04 66 AC0
XF-4041ZM-91	FC04 66 AF0
XF-4141ZM-91	FC32 66 AF0

These models are used in combination with GM-4041ZM and GM-4141ZM.

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FS JAN. 1989 Printed in Japan

2407

DEH-K4041ZM

- DEX-K4141ZM-91, XF-4041ZM-91 and XF-4141ZM-91 are supplementary model number. These are identical to the DEH-K4041ZM and DEH-K4141ZM except for the addition of the following items.

Description	AM FM CASSETTE CD COMBI- NATION DEX-K4141ZM-91	AE PROCESSING UNIT XF-4041ZM-91	AE PROCESSING UNIT XF-4141ZM-91
Carton	CHG1573	CHG1574	CHG1575
Styrofoam	CHP1206	—	—
Styrofoam	CHP1207	—	—
Cover	CEG1042	CEG1051	CEG1051
Installation Manual	CRB1119	CRB1119	CRB1051
Bracket	CNC2770	CNC2358	CNC2358
Bracket	CNC2771	—	—
Bracket	CNC2498	—	—
Screw	BMZ50P080FMC	—	—
Screw	CBA1096	—	—
Holder	CNC2531	—	—
Polyethylene Bag	CEG1041	—	—
Screw Assy	No spare part	No spare part	No spare part
Screw	BMZ30P050FMC	—	—
Screw	BMZ50P080FMC	—	—
Screw	CMZ50P080FMC	—	—

Note:

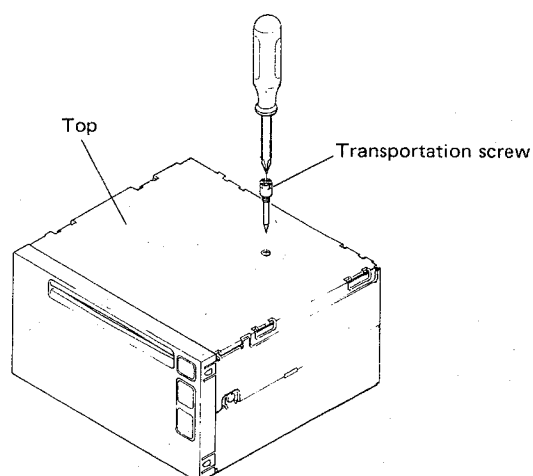
- See the separate manual CX-173 (CRT1161) for the CD mechanism description.
- See the service manual CDX-3 (CRT1177) for CD mechanism circuit description.
- See the separate manual CX-156 (CRT-468) for the cassette mechanism description.
- Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.

AE

Distortion Less than 0.3% (−10dBs output, 100Hz)
 Separation More than 38dB (185mV output, 100Hz)
 Frequency response
 (280Hz/100Hz) −2.5±2dB (DEH-K4041ZM)
 (280Hz/100Hz) −3±2dB (DEH-K4141ZM)
 (750Hz/100Hz) +2.5±2dB
 (1.4kHz/100Hz) −7±2dB
 (20kHz/100Hz) +1.5±2dB (DEH-K4041ZM)
 (20kHz/100Hz) +0.5±2dB (DEH-K4141ZM)
 Voltage gain 0±2dB (−10dBs output, 100Hz)

AMP

Continuous power output More than 11W (10% dist. at 1kHz)
 Front voltage gain (L) 35±2dB (0dBs output at 1kHz)
 (DEH-K4041ZM)
 (L) 34.3±2dB (0dBs output at 1kHz)
 (DEH-K4141ZM)
 (R) 37±2dB (0dBs output at 1kHz)
 Rear voltage gain 29±2dB (0dBs output at 1kHz)
 Frequency response −0.5±2dB (0dBs output 100Hz/1kHz)
 Distortion Less than 0.1% (+10dBs output at 1kHz)



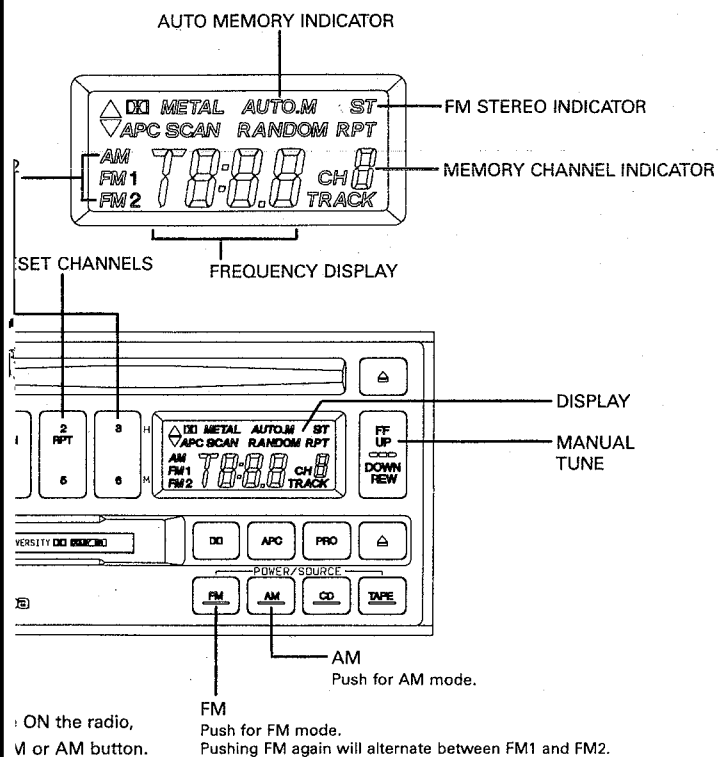


Fig. 1

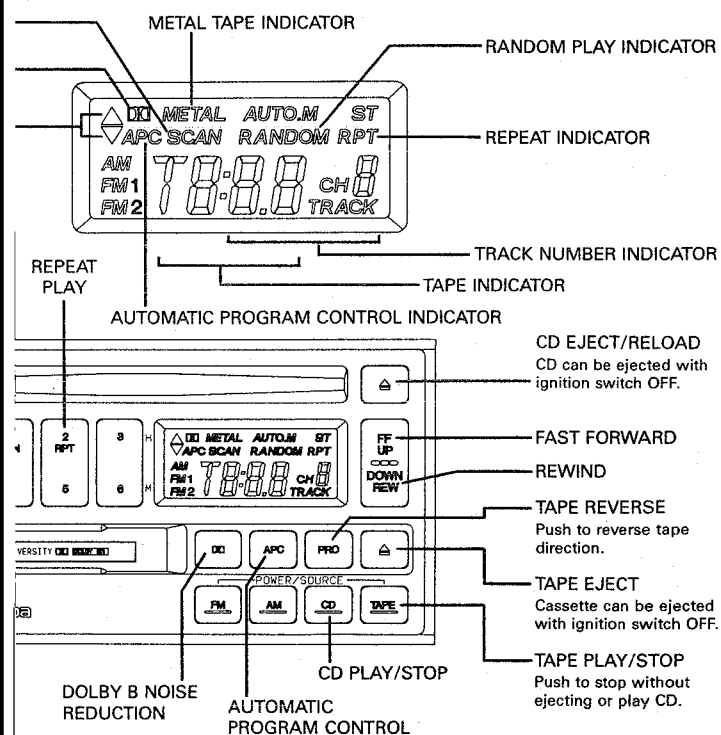
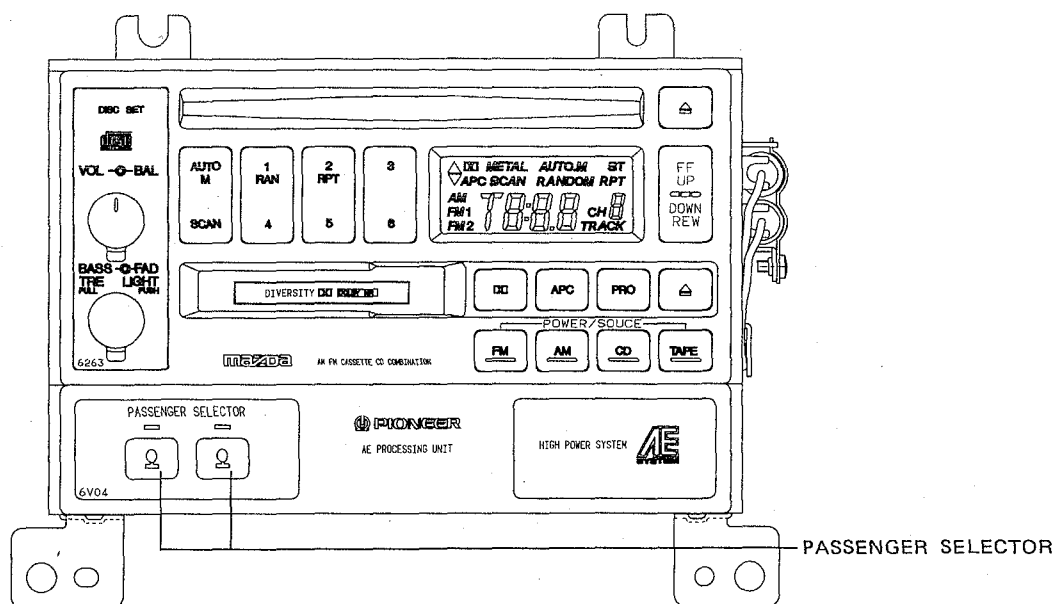


Fig. 2

DEH-K4041ZM



DEH-K4141ZM

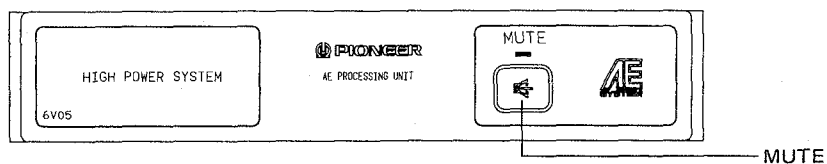


Fig. 3

a	RADIO +ACC
b	SYSTEM MUTE
c	BACK UP +B
d	ANT SW(ON EARTH)
e	TNS
f	N.C.
h	N.C.
j	AMP CONT.
k	FR. SP LH+
l	FR. SP LH-
m	FR. SP RH+
n	FR. SP RH-

a	SPEAKER LH+
b	SPEAKER LH-
c	+ACC
d	AMP CONT. (+13.2V)
f	SPEAKER RH+
h	SPEAKER RH-
i	SYSTEM MUTE
j	NC

Fig. 4

Assy

ectors, and remove the tun-

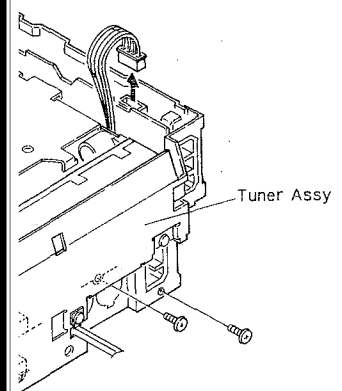


Fig. 6

sy
rer.
ssette

2

Fig. 11

2)
power

ard to

C. Board

d

Fig. 12

12)
y NR

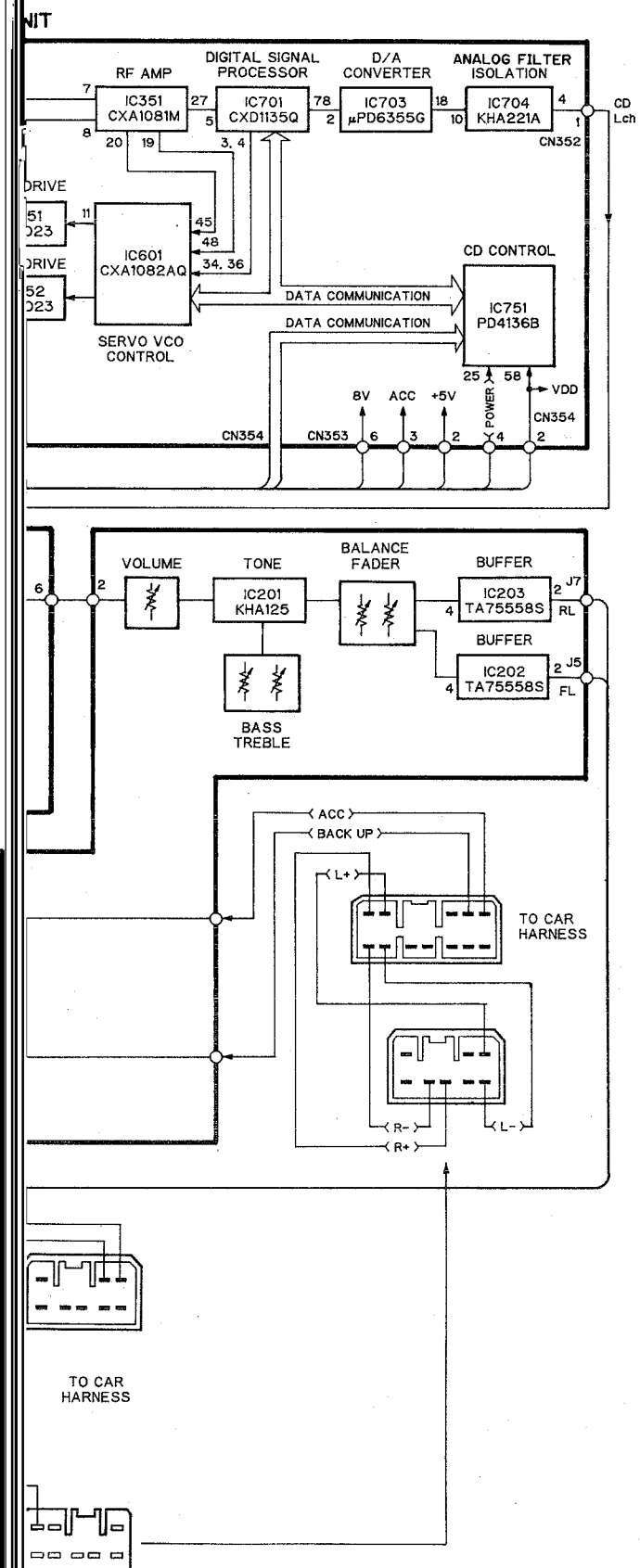


Fig. 13

NOTICE:

Select C1 so that total capacity of 80pF attained from the direction of the receiver jack.

Z: Output impedance of SSG.

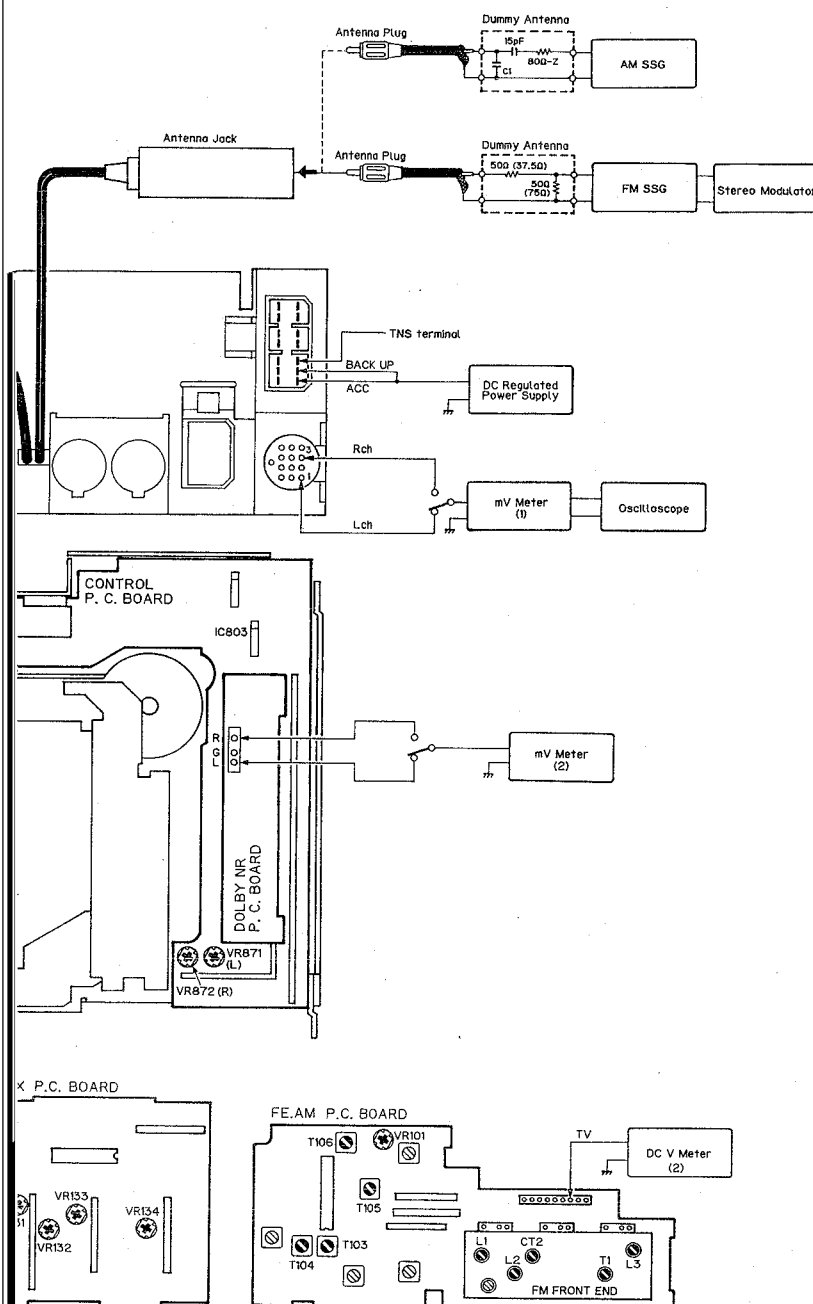


Fig. 14

L ADJUSTMENT

Tape	Adjusting Point	Adjustment Method (Switch Position)
200nwb/m)	VR871 (Lch), VR872 (Rch)	mV Meter (2) : -10 ±1dB (DOLBY NR Switch:OFF)

Method (position)
Maximum
2): Less than 7.5V
2): More than 0.8V
op
the scanning
→13.2V
the scanning

Method (position)
Maximum
2): 2.5V
2): $7.0 \pm 0.1V$
2): More than 1.4V
Maximum
Maximum
indicates maximum
Best separation
Separation 5dB
op
the scanning stop

) of the regu-
fore, is con-
C351 (CXA-

er by mistake
le to measure
unction and a
void this, take

asuring equip-
important not
oscilloscope
ected to GND.
ents is usually
nge the frame

ID, immedi-

n connecting
ring required

nd measure-
layer run for
abilize.

- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and/or electrical shocks to the system when making adjustments.
 - Test mode starting procedure
Turn ACC and Back-up ON while pressing the 1/RAN and 3 keys together.
 - Test mode cancelation
Turn ACC and Back-up OFF and then back ON.
 - Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
 - During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
 - The unit will not load a disc.
- When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

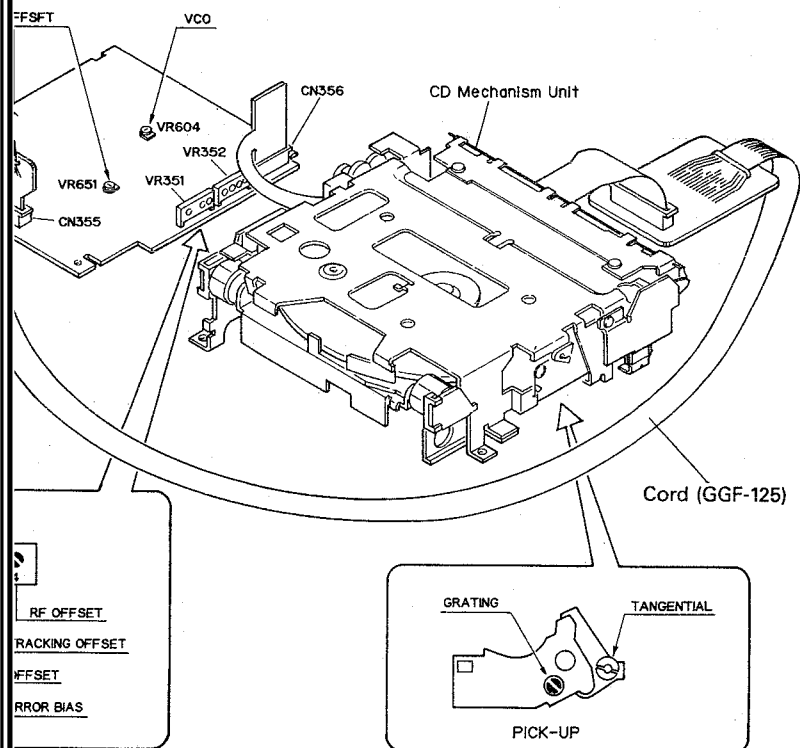


Fig. 15

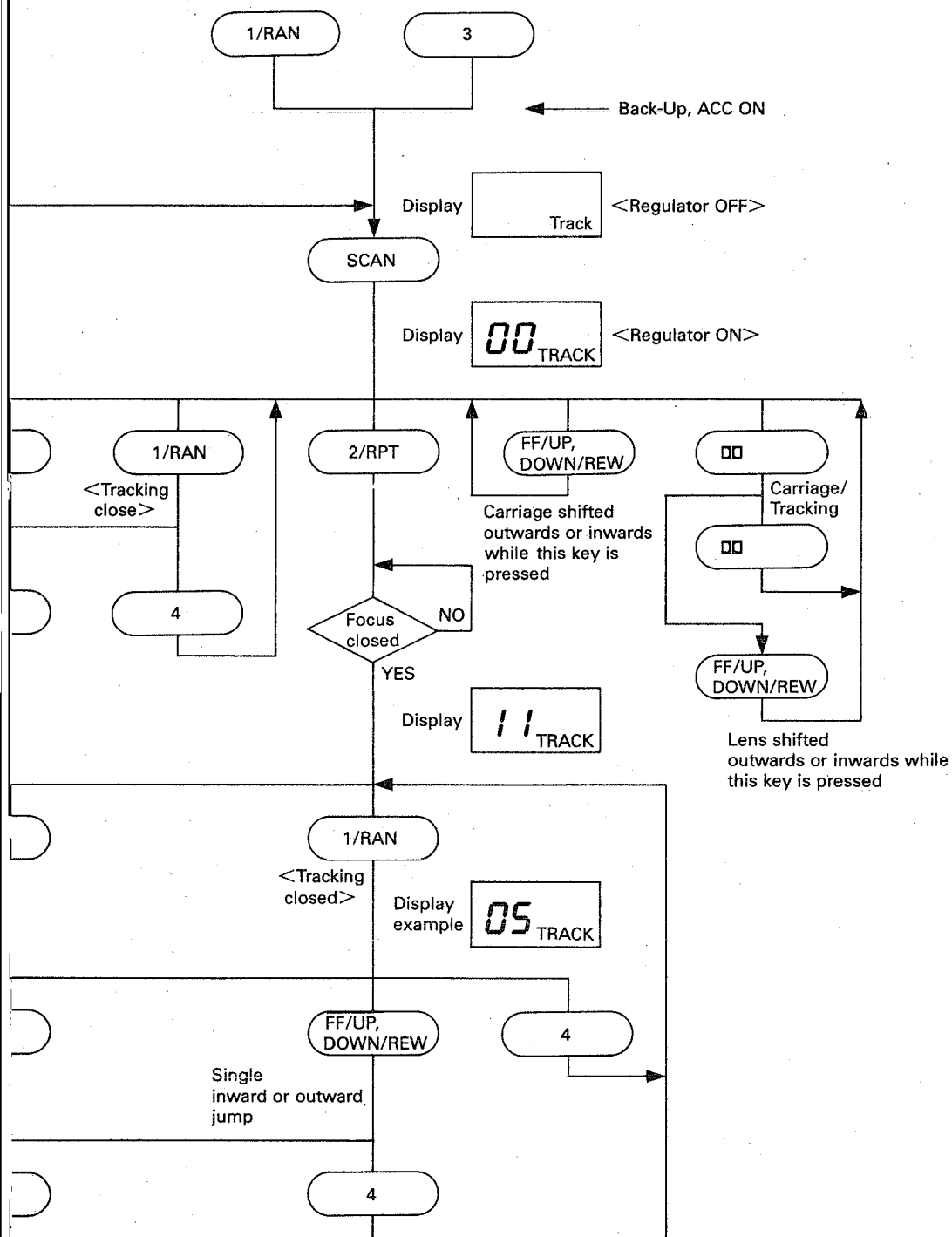


Fig. 16

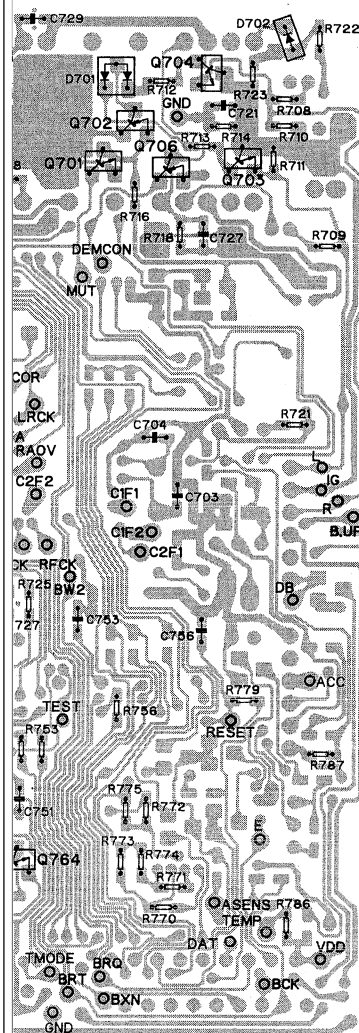


Fig. 17

6.1 Focus Offset Adjustment

- Purpose: To adjust the electrical offset of the focus amplifier to zero.
- Maladjustment symptoms: No focus closing

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Measuring equipment/
jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> ● Multi-meter or oscilloscope ● FEO2 ● No disc, test mode ● VR651 |
|--|--|

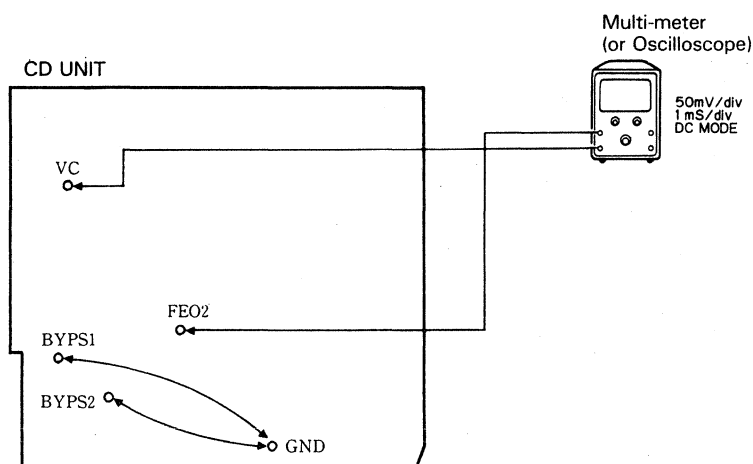


Fig. 18

Adjustment Procedure

1. Connect BYPS 1 and BYPS 2 to GND.
2. Switch regulator ON.
3. Using VR651, adjust the FEO2 DC voltage in reference to VC to a value of $0 \pm 25\text{mV}$.

Frequency Adjustment

Adjust decoder reference clock free-run frequency to a suitable value

Spindle lock not possible, distorted sound or no sound at all

- Frequency counter, extension cables
- Pin no.70 (PLCK) of IC701 (CXD1135Q)
 - Test mode
- No disc
- VR604

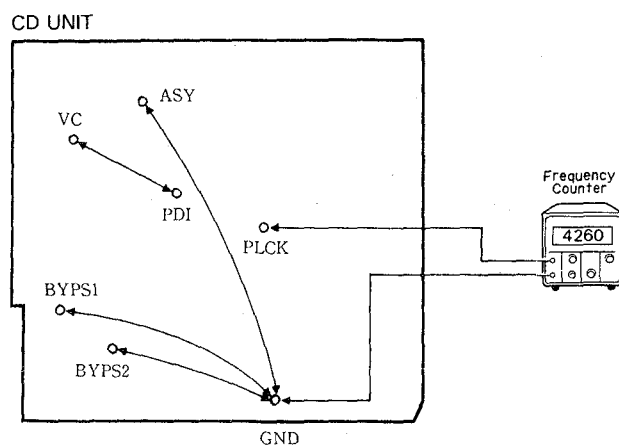


Fig. 19

(Y) of IC351 to GND.
 S 2 to GND.
 of IC601 to pin no.28 (TP PDI).
 le in test mode.
 unter to pin no.70 (TP PLCK) of
 frequency of $4.26 \pm 0.005\text{MHz}$.
 ecting TP VC to TP PDI, and TP
 PDI with leads kept as short as
 counter ground to TP GND as

6.3 RF Offset Adjustment

- Purpose: To adjust the RF amplifier offset to a suitable value
- Maladjustment symptoms: Focus closure fails readily

- | | |
|---|--|
| <ul style="list-style-type: none"> ● Measuring equipment/jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> ● Oscilloscope ● RFO ● No disc ● VR352-4 (RFO) ● Test mode |
|---|--|

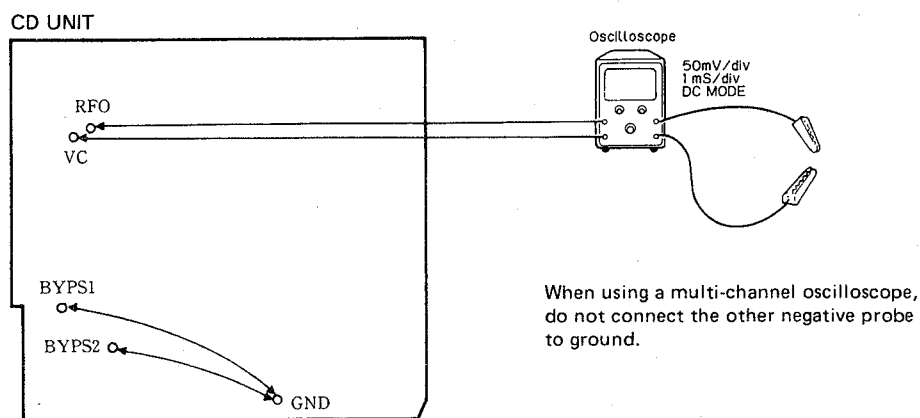


Fig. 20

Adjustment Procedure

1. Connect BYPS 1 and BYPS 2 to GND.
2. Switch regulator ON.
3. Using the oscilloscope, measure the RFO DC voltage in reference to VC, and adjust VR352-4 (RFO) to obtain a reading of $+250 \pm 25\text{mV}$.

6.4 Tracking Offset Adjustment

- Purpose: To adjust the electrical offset of the tracking amplifier to zero
- Maladjustment symptoms: Search times too long, carriage run-away

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Measuring equipment/
jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> ● Oscilloscope ● TAO low-pass filter output ● No disc ● Test mode ● VR352-3 (TO) |
|--|--|

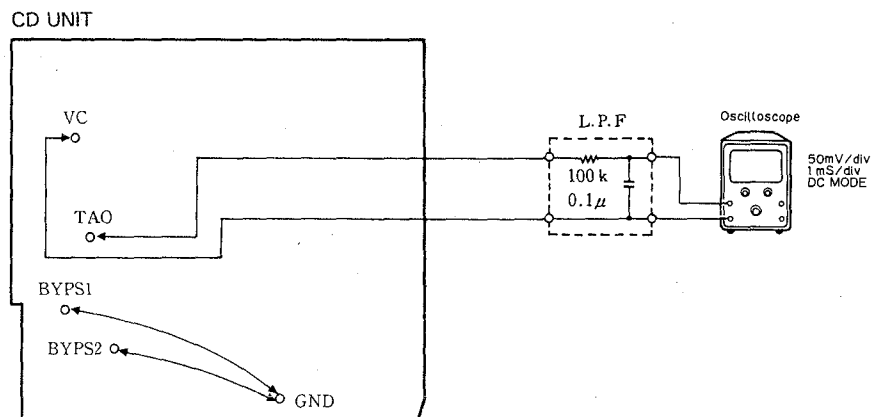


Fig. 21

Adjustment Procedure

1. Insert a low-pass filter between TAO and VC.
2. Check that BYPS 1 and BYPS 2 are connected to GND.
3. Switch regulator ON.
4. Using the oscilloscope, measure the TAO LPF output DC voltage in reference to VC, and adjust VR352-3 (TO) to obtain a reading of $0 \pm 25\text{mV}$.
The low-pass filter may be left in place for later adjustments.

6.5 TE Offset Adjustment - I

- Purpose: To adjust the electrical offset of the tracking servo to zero.
- Maladjustment symptoms: Search times too long, carriage run-away

- | | |
|--|---|
| <ul style="list-style-type: none"> ● Measuring equipment/
jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> • DC voltmeter • TAO low-pass filter output • No disc • Test mode • VR352-2 (TEO) |
|--|---|

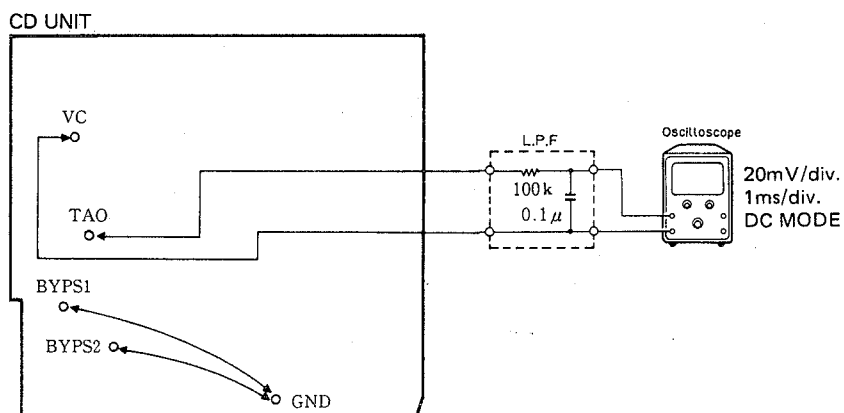


Fig. 22

Adjustment Procedure

1. Check that BYPS 1 and BYPS 2 are connected to GND.
2. Switch regulator ON while in test mode.
3. Press the **1/RAN** key to close tracking.
4. Using VR352-2 (TEO), adjust the TAO LPF output DC voltage in reference to VC to a value of $0 \pm 10\text{mV}$.
5. Switch regulator OFF.

at to zero.

o long, poor playability, carriage run-away

g error signal), low-pass filter output
4 (or TYPE 3) • Test mode
BAL)

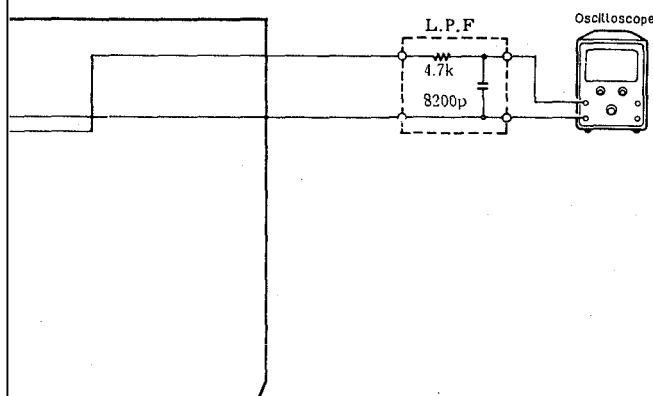


Fig. 23

nect the low-

rd.

tray 6 and load

move the pick-

e.

al in respect to

ie positive and

e Fig. 24-26)

or adjustments.

+5% NG

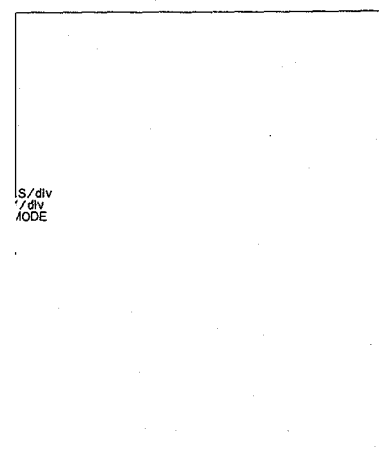
$\pm 0\%$ OK

5

-5% NG

6

the pick-up unit.

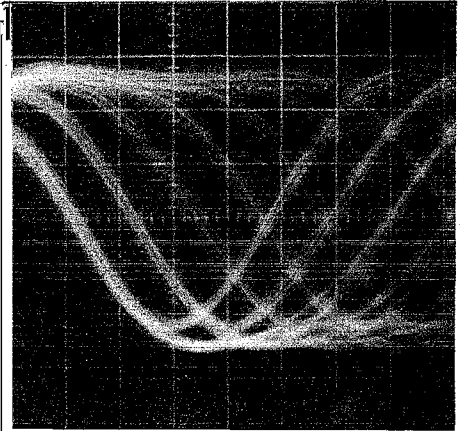


LS/div
/div
MODE

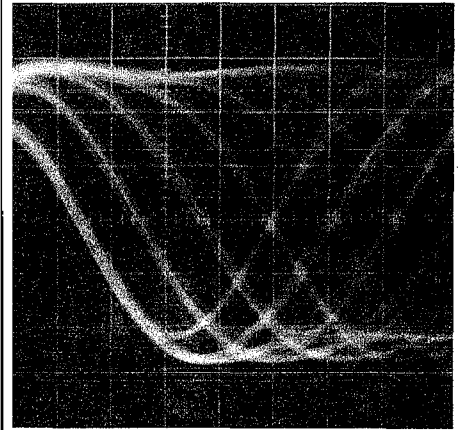
Fig. 27

ect to VC, and turn the tangential
obtain a flat waveform at the 11T

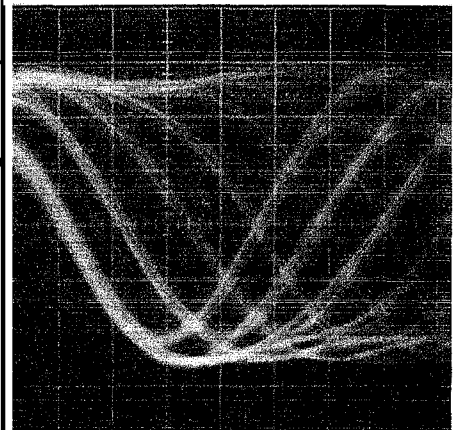
it resuming from step 2.



NG Fig. 29



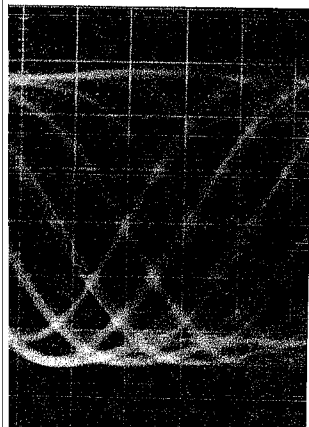
OK Fig. 31



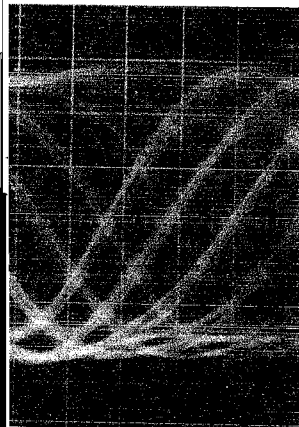
NG Fig. 33

Play tune TNO 12 (TYPE4)

the tangential adjustment screw.
al skew, also adjust the grating.



OK Fig. 35



NG Fig. 36

filter),

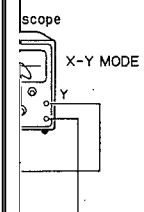


Fig. 37

9. With the E low-pass filter output connected to the X axis of the oscilloscope, and the F low-pass filter output connected to the Y axis, apply an input in AC mode and observe the Lissajous figure.
10. Using the driver, adjust the Lissajous figure to a single line (or as close as possible).
11. Switch regulator OFF and remove the filters.

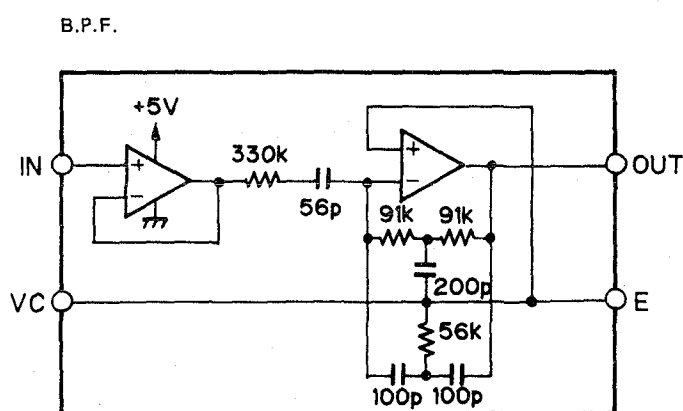


Fig. 38



40



42



44

6.9 Focus Bias Adjustment

- Purpose: To adjust the focus servo bias to an optimum value
- Maladjustment symptoms: Focus closing difficulty, poor playability

- | | |
|---|---|
| <ul style="list-style-type: none"> ● Measuring equipment/jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> ● Oscilloscope ● RFO ● SONY TYPE 4 (or TYPE 3) • Normal mode ● VR352-1 (FEB) |
|---|---|

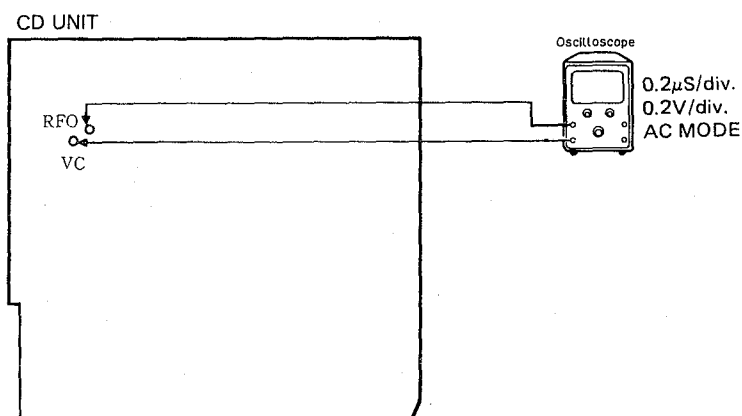


Fig. 45

Adjustment Procedure

1. Play tune TNO 12 in normal mode. (TYPE 3: TNO 14)
2. Observe RFO in respect to VC in the oscilloscope, and adjust VR352-1 (FEB) to obtain maximum RF and optimum eye pattern. (See Fig. 46 and 47)



Fig. 46

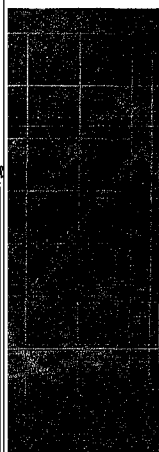


Fig. 47

Adjustment

servo loop gain to an optimum value

for playability, reduced resistance to vibration, focus closure fails readily

Oscillator, gain adjustment filter, dual meter milli-voltmeter

Same as for CDX-2

EX, FEY

ONLY TYPE 4 (or TYPE 3) • Normal mode

R351-3 (FG)

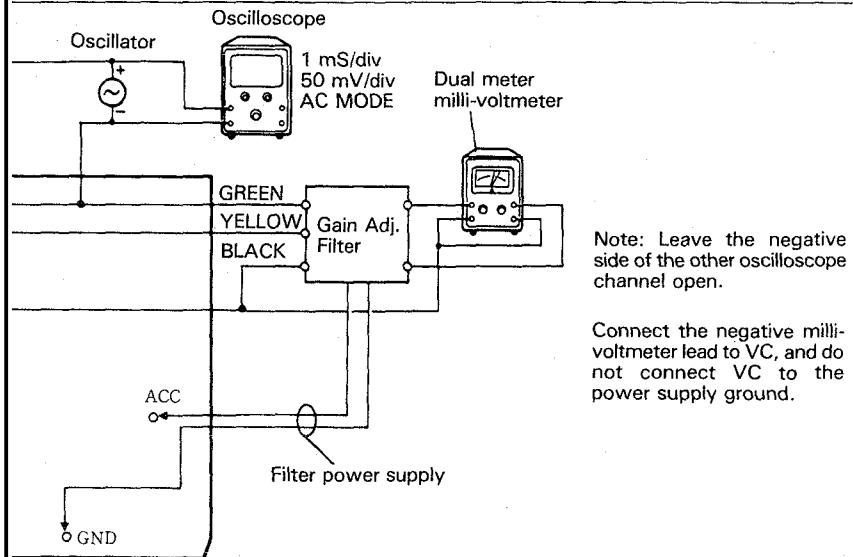


Fig. 48

is OFF, connect the gain equipment as shown in the

mode. (TYPE 3: TNO 14)

observe the FEX/FEY output oscillator output to obtain a

a milli-voltmeter difference

6.11 Tracking Servo Loop Gain Adjustment

- Purpose: To adjust the tracking servo loop gain to an optimum value
- Maladjustment symptoms: Poor playability, reduced resistance to vibration

- | | |
|--|---|
| <ul style="list-style-type: none"> ● Measuring equipment/ jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> • Oscillator, gain adjustment filter, dual meter milli-voltmeter • TEX, TEY • SONY TYPE 4 (or TYPE 3) • Normal mode • VR351-2 (TG) |
|--|---|

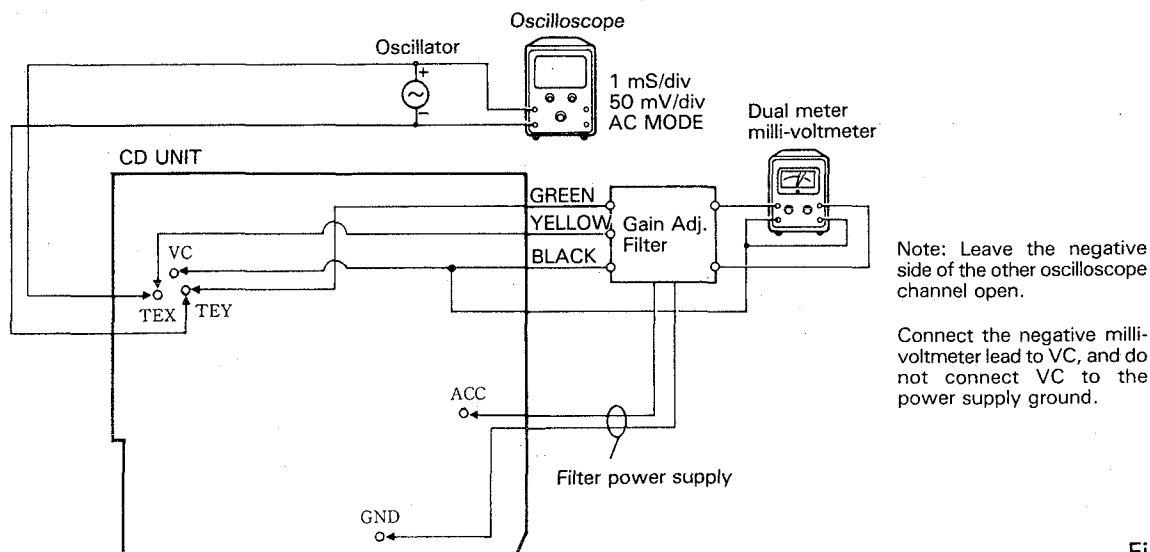


Fig. 49

Adjustment Procedure

1. After checking that the power is OFF, connect the gain adjustment filter and measuring equipment as shown in the above diagram.
2. Play tune TNO 12 in normal mode. (TYPE 3: TNO 14)
3. Set the oscillator to 1.4kHz, and observe the TEX/TEY output in the oscilloscope. Adjust the oscillator output to obtain a TEX/TEY output of 200mVp-p.
4. Adjust VR351-2 (TG) to obtain a milli-voltmeter difference of $0 \pm 0.5\text{dB}$.

6.12 TE Offset Adjustment - II

- Purpose: To adjust the electrical offset of the tracking servo to zero.
- Maladjustment symptoms: Search times too long, carriage run-away

- | | |
|--|---|
| <ul style="list-style-type: none"> ● Measuring equipment/
jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> • DC voltmeter • TAO low-pass filter output • No disc • Test mode • VR352-2 |
|--|---|

Adjustment Procedure

Same as for TE offset adjustment - I, but with the DC voltage of the TAO LPF output adjusted to $0 \pm 50\text{mV}$.

The purpose of this additional adjustment is to correct any deviations generated when carrying out the tracking balance and tracking servo loop gain adjustments after completing TE offset adjustment - I.

6.13 Tracking Balance Adjustment - II

- Purpose: To adjust the tracking servo offset to zero.
- Maladjustment symptoms: Search times too long, poor playability, carriage run-away

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Measuring equipment/
jigs ● Measuring point ● Test disc and setting ● Adjustment position | <ul style="list-style-type: none"> ● Oscilloscope ● TEY low-pass filter output ● SONY TYPE 4 (or TYPE 3) • Test mode ● VR351-1 |
|--|--|

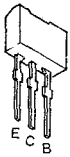
Adjustment Procedure

Steps 1 thru 5 same as tracking balance adjustment-I.

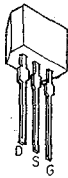
6. Check that the level difference between the positive and negative amplitudes of the TEY signal is within 5% (See Fig. 24—26). If greater than 5%, adjust with VR351-1.
7. If further adjustment was necessary in step 6, repeat TE offset adjustment - II.

and Transistors

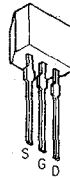
2SB1243
2SD1864
2SD1226M



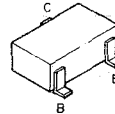
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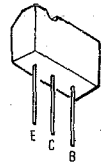
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2SJ105



2SC2712
2SD1048



2SB822F



2SA1199S
2SD1468S
2SA933S



2SK435



2SA1358
2SC3421



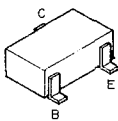
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2SC2753



2SC2458L
2SA1048
2SA1150
2SC2458
2SC1740S
2SC3113



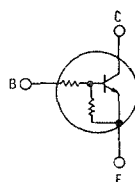
UN2111
UN2211



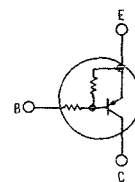
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DTC114ES
DTA124ES
DTA114ES
DTC343TS



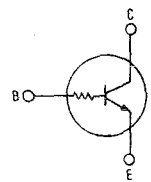
DTC124ES
DTC114ES



DTA124ES
DTA114ES



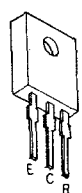
DTC343TS



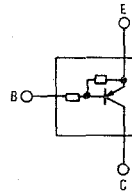
2SD667



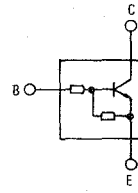
2SD1640



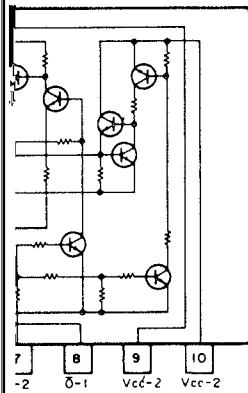
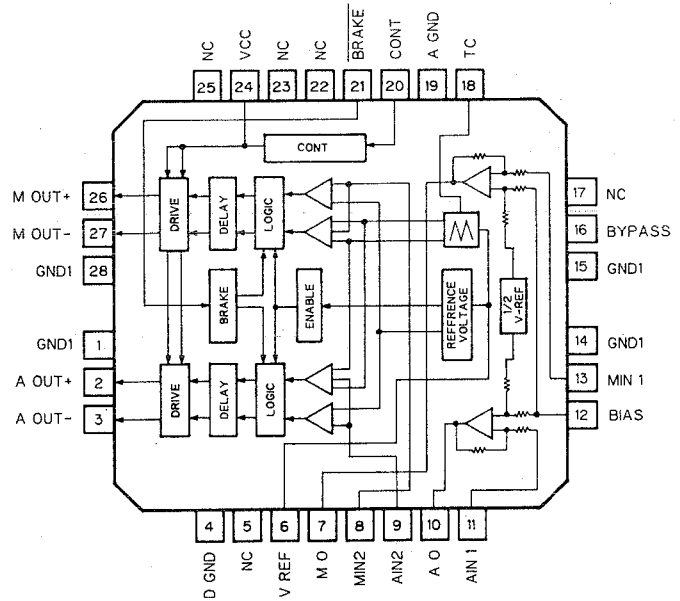
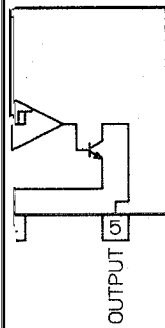
UN2111



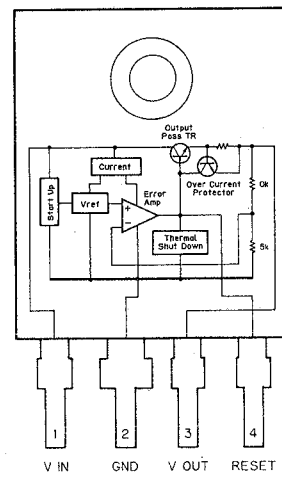
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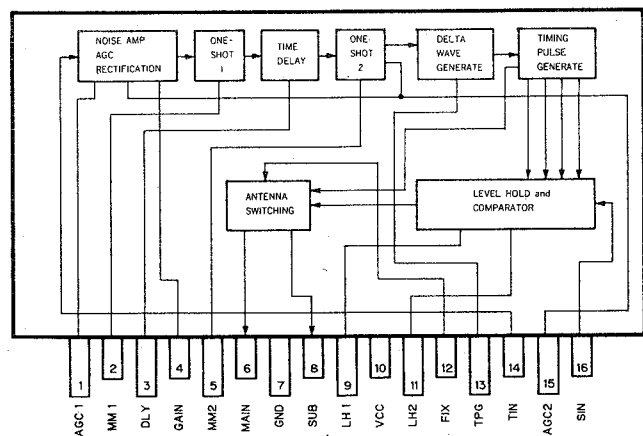
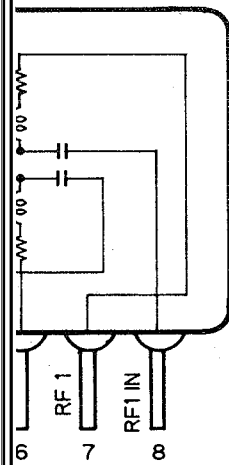
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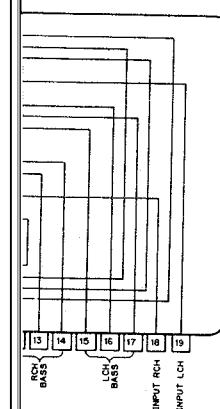
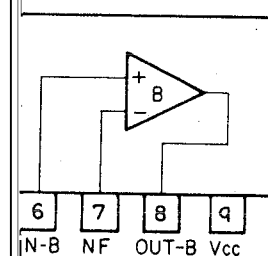
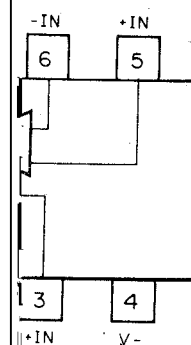


AN7805R

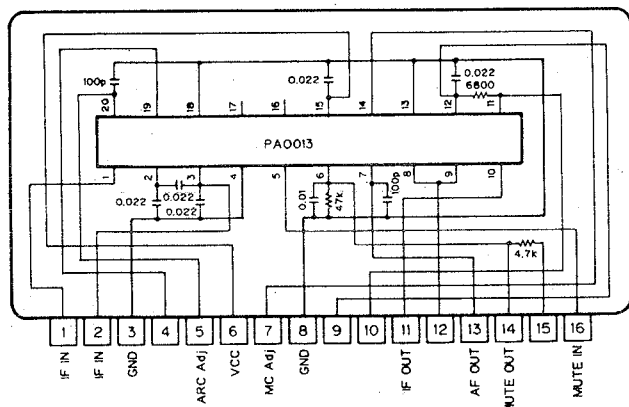


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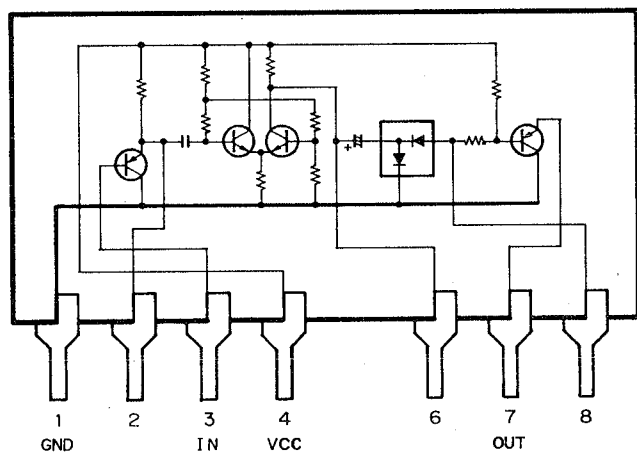




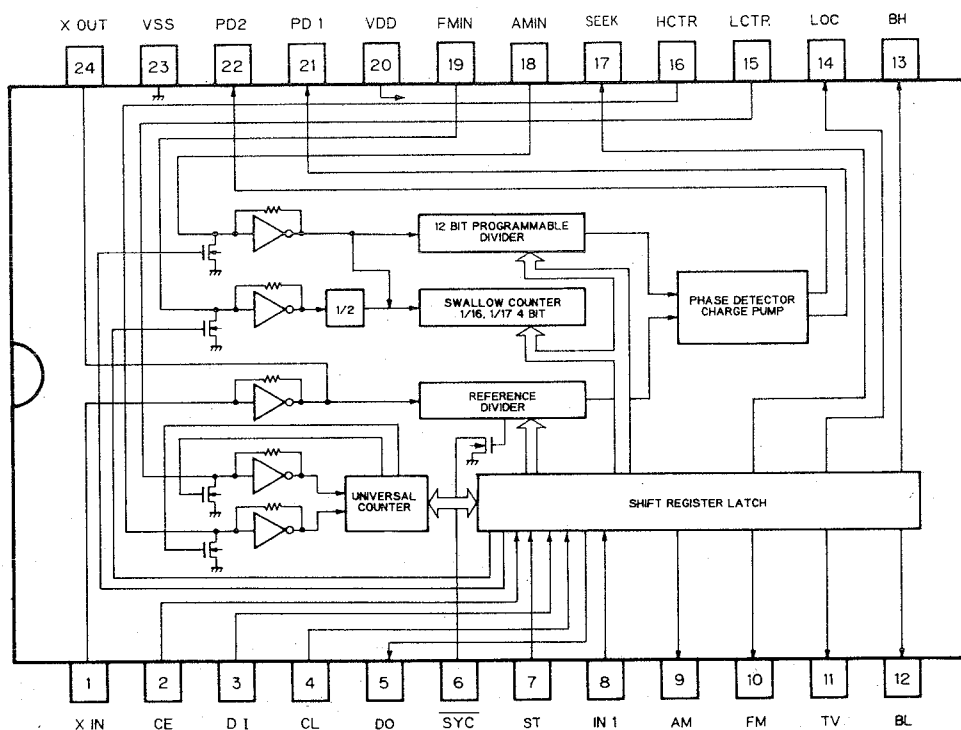
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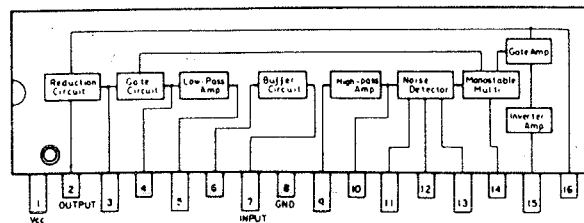
KHA505



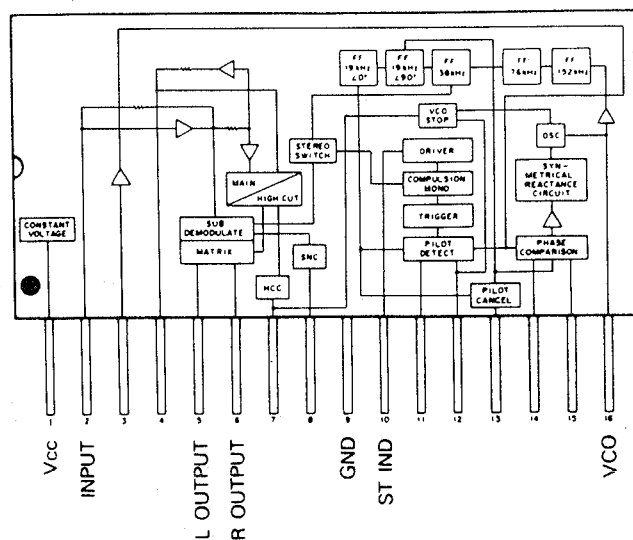
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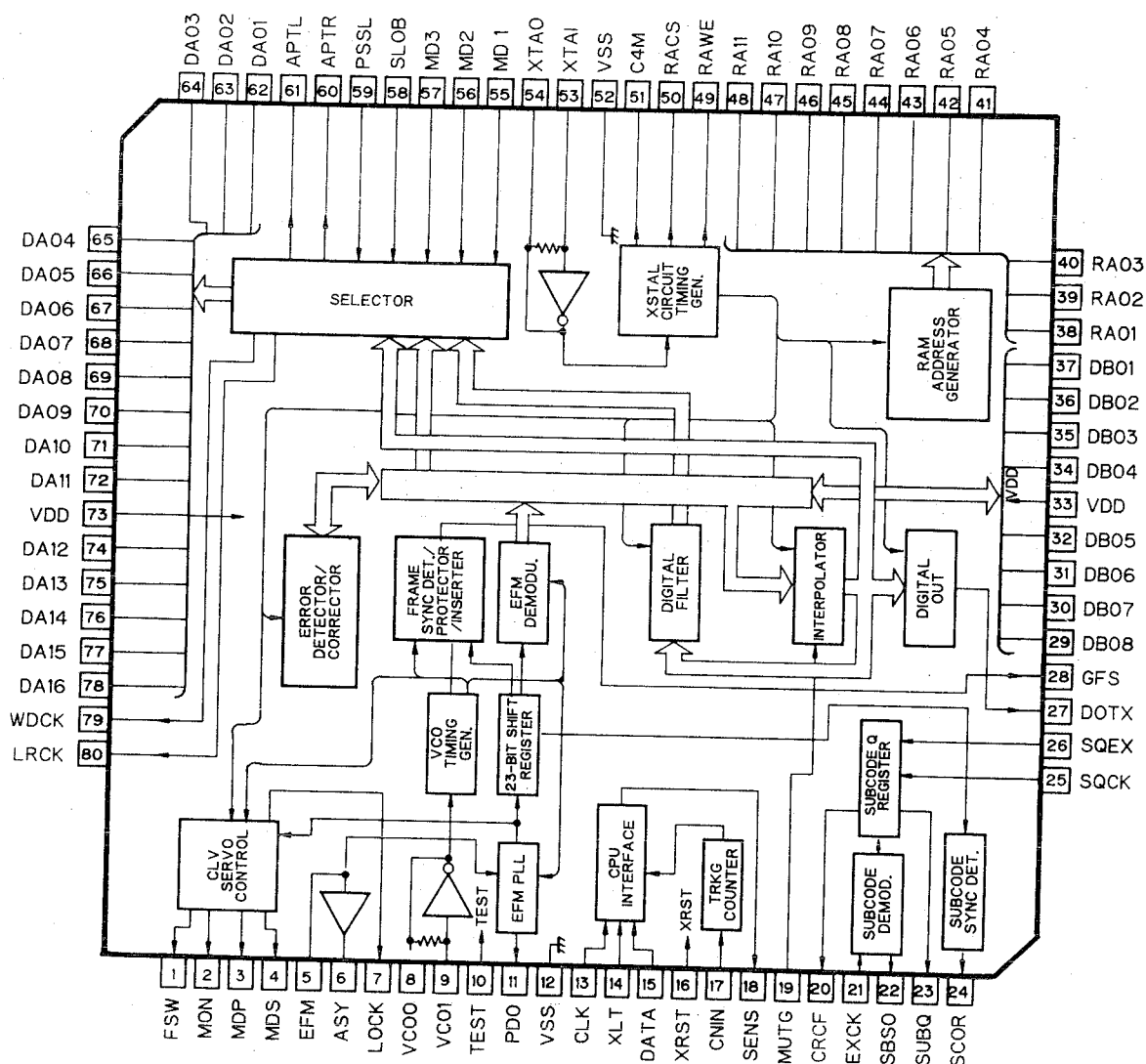
LA2110



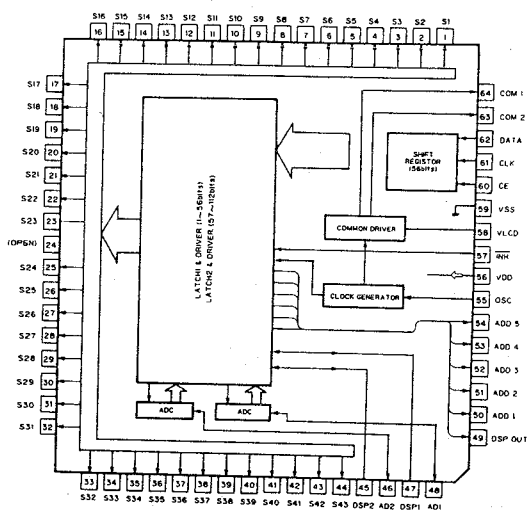
LA3430P



*CXD1135Q

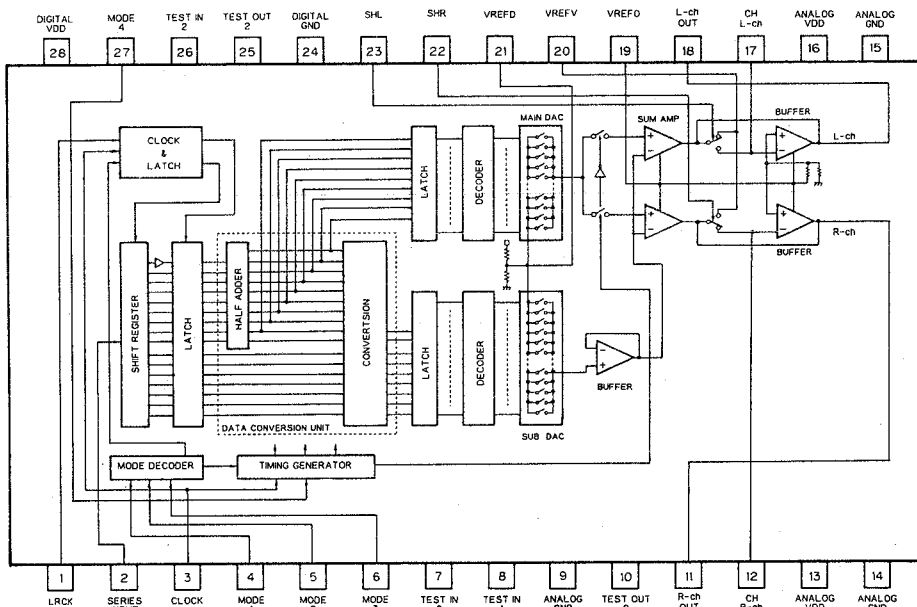


LC7582P

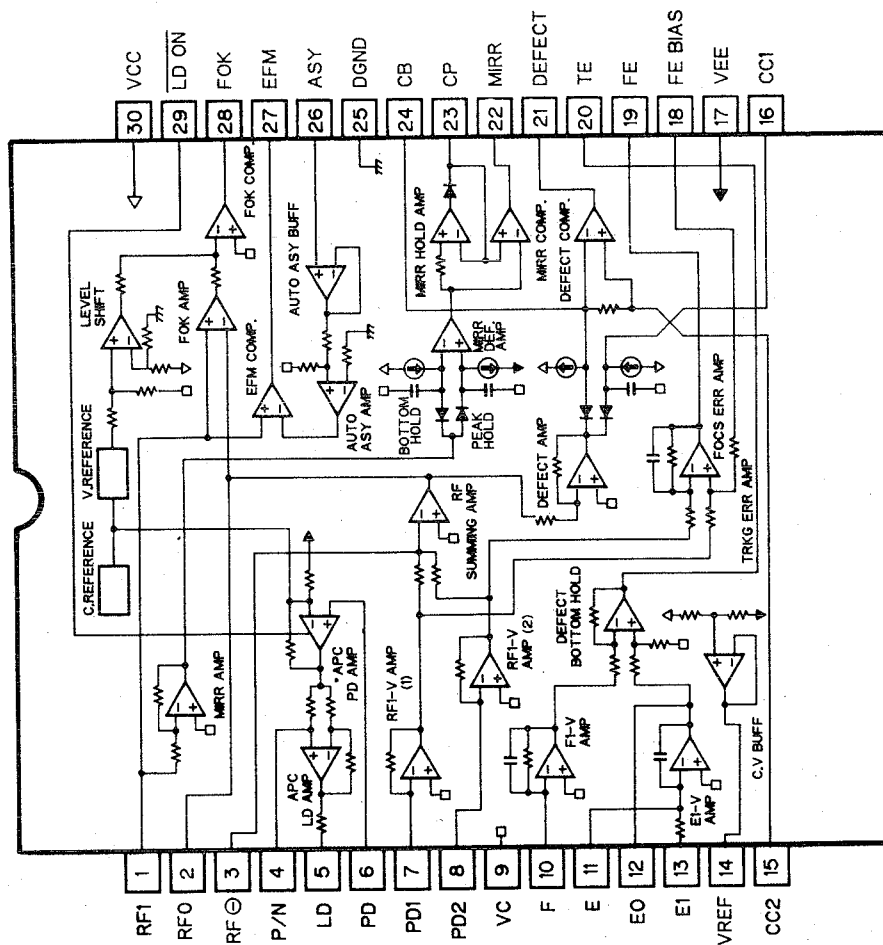


IC's marked by * are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

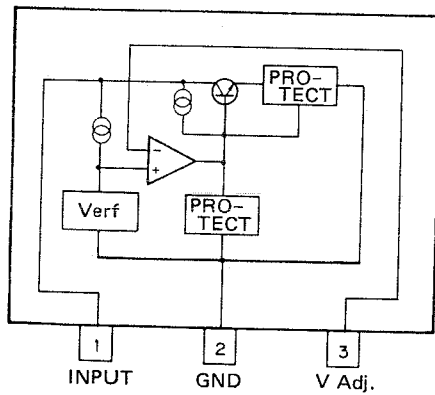
*μPD6355G



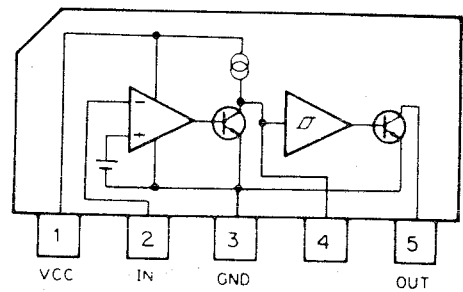
*CXA1081M



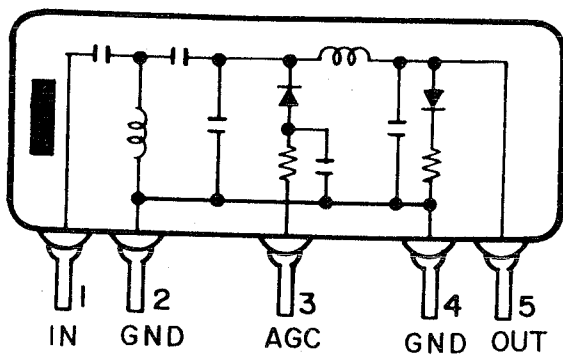
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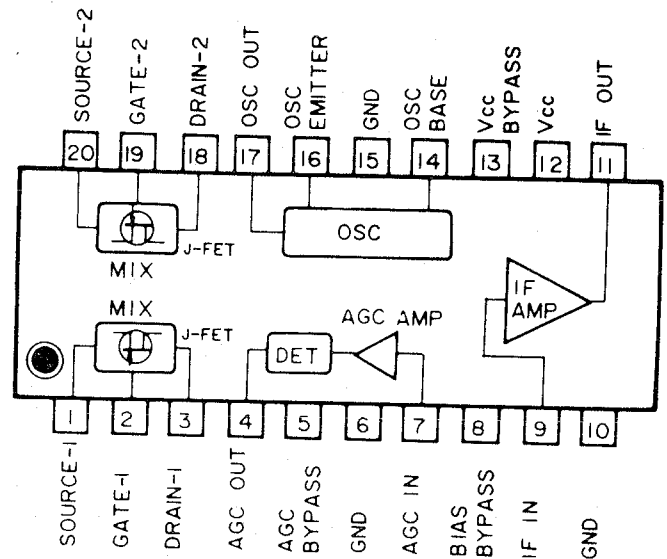
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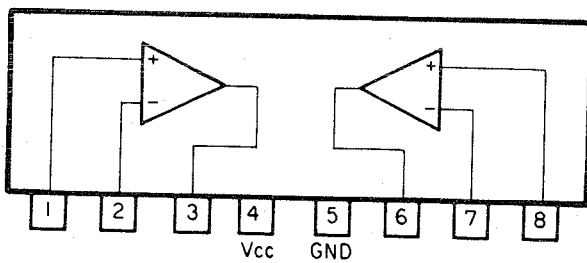
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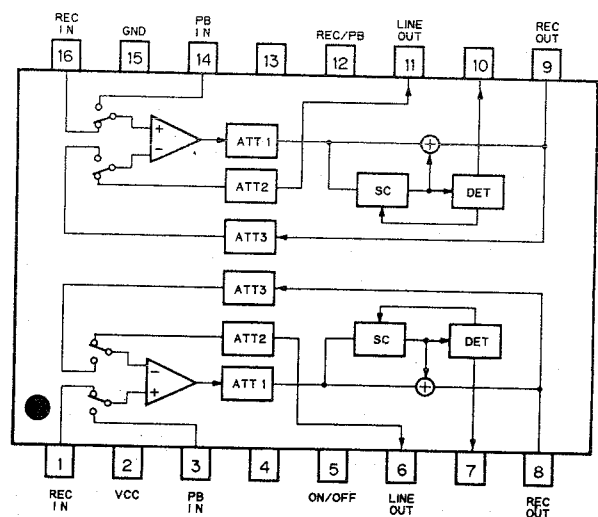
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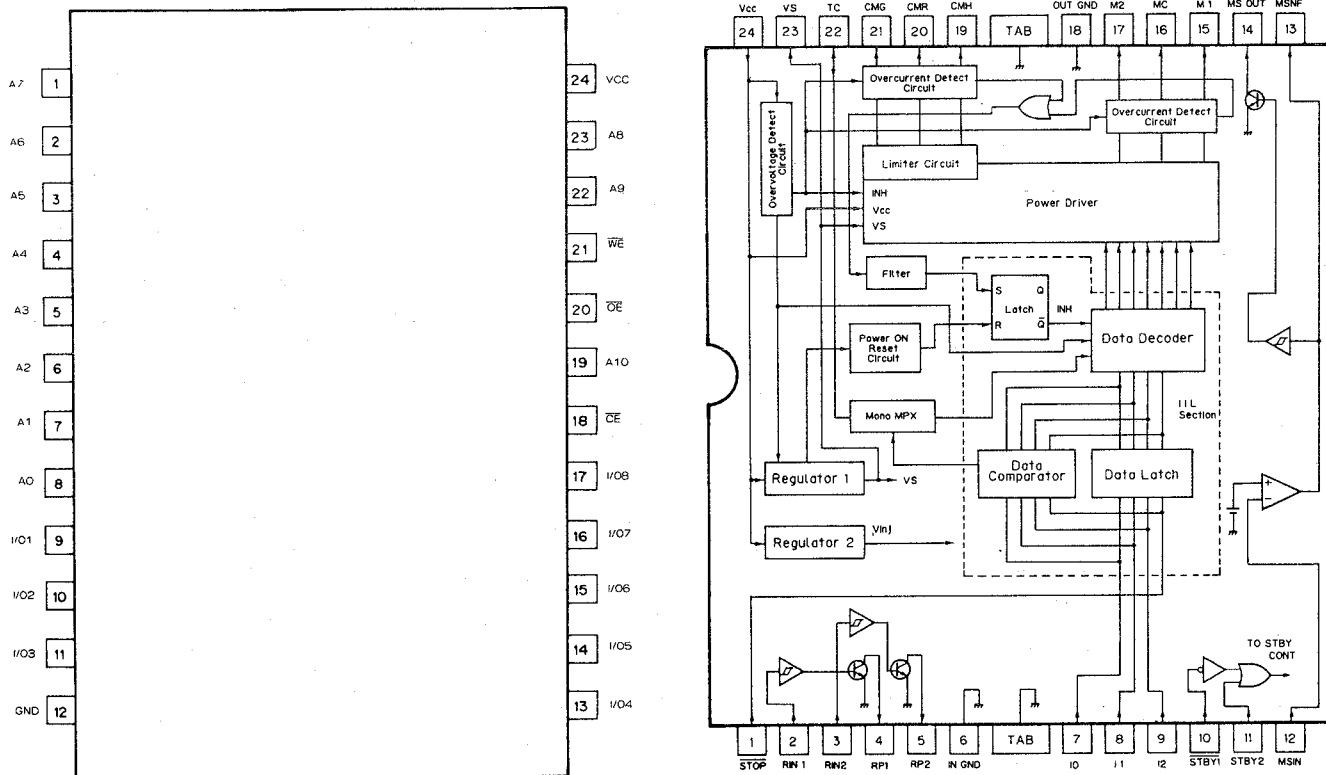


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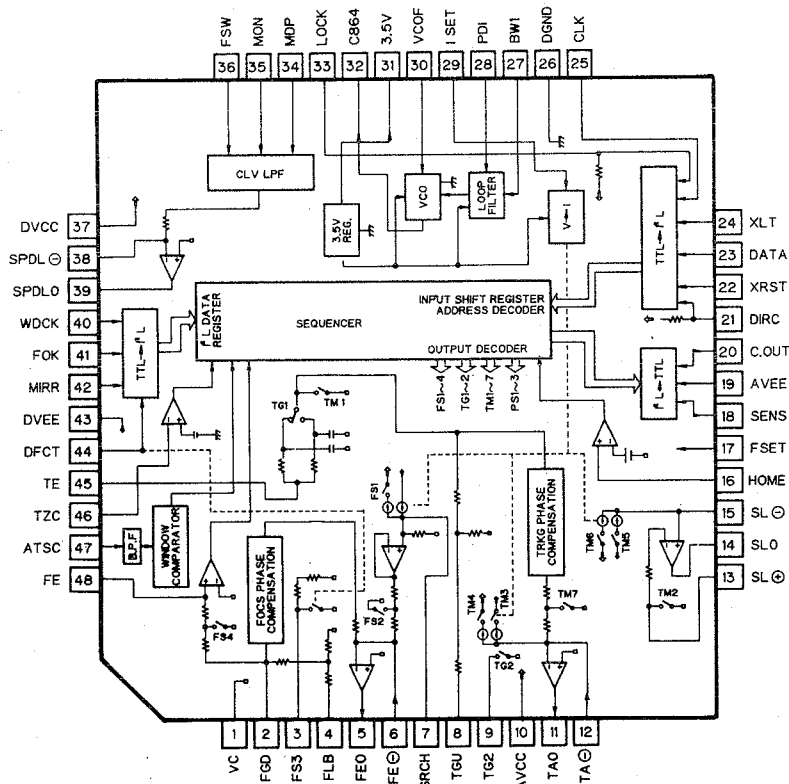


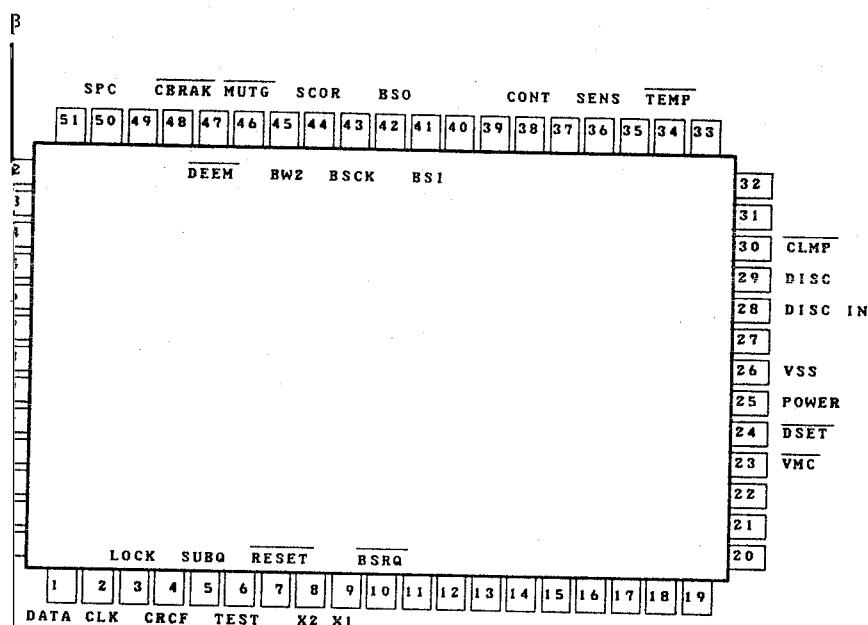
*CXK5816M-15L

PA3022A



*CXA1082AQ



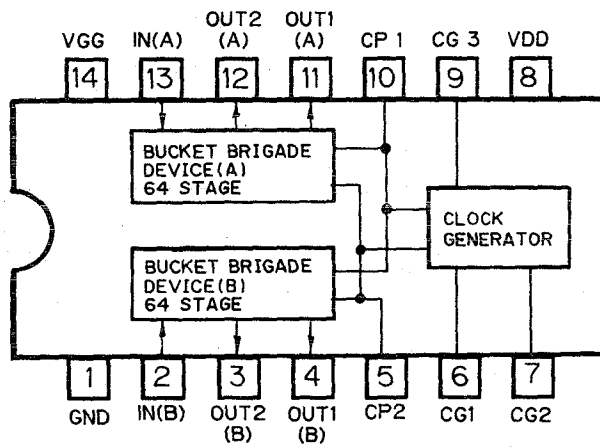


4 1 3 6 B)

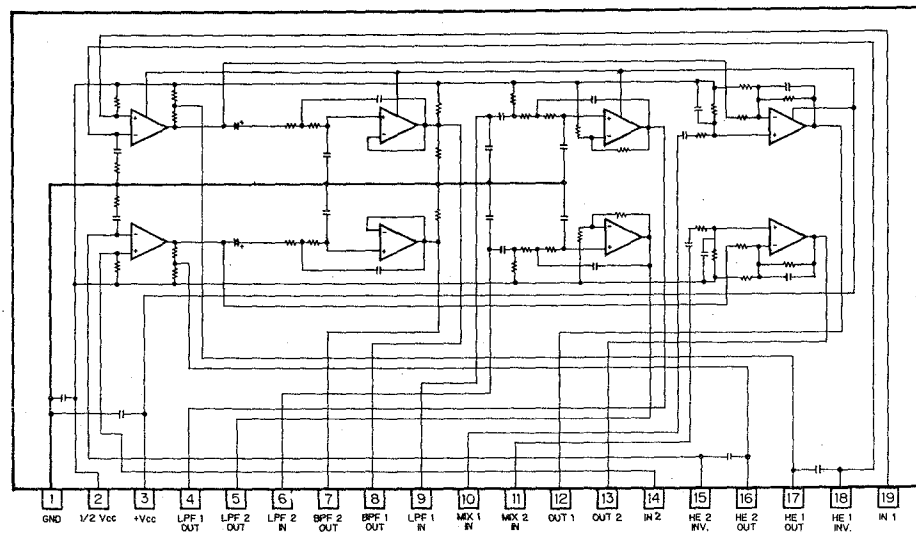
I/O	Function and Operation
CMOS IN	Serial data output
CMOS OUT	Serial data clock output
CMOS IN	Spindle lock monitor "H"=Lock
CMOS IN	CRC check result input "H"=CRC OK
CMOS IN	Sub-code data input
CMOS IN	Test input
CMOS IN	Reset input
CMOS OUT	Oscillator output
CMOS IN	Oscillator input
CMOS OUT	Service request line "L"=Request
CMOS OUT	Loading power supply control
CMOS OUT	Disc set LED control
CMOS OUT	Regulator ON/OFF control "H"=Regulator ON
—	Ground
CMOS IN	Door switch input "H"=Door open

Pin No.	Pin Name	I/O	Function and Operation				
29	DISC	CMOS IN	Disc sensor input	"H"=Disc loaded			
30	CLMP	CMOS IN	Disc clamped input	"L"=Disc clamped			
34	TEMP	INPUT	High temperature detector				
36	SENS	CMOS IN	CD LSI internal status monitor input				
38	CONT	CMOS OUT	PWM driver ON/OFF	"H"=ON			
41	BSI	CMOS IN	Bus data input				
42	BSO	CMOS OUT	Bus data output				
43	BSCK	IN/OUT	Bus serial clock	CMOS Input/Output			
44	SCOR	CMOS IN	Sub-code synchronization input				
45	BW2	OUTPUT	Spindle motor output filter time constant selection output High resistivity N channel open drain				
46	MUTG	OUTPUT	Muting output	"L"=Mute ON			
47	DEEM	OUTPUT	Emphasis selector output "H"=Emphasis ON High resistivity N channel open drain				
48	CBRAK	OUTPUT	PWM driver brake control "L"=Brake ON				
50	SPC	CMOS IN	Spindle motor rpm indicator "L"=Low speed				
52	FOK	CMOS IN	Indication that focus is closed and RF input is active				
53	LOAD	OUTPUT	Motor drive output	LOAD	H	L	H
54	EJ		High resistivity N channel open drain	EJ	L	H	H
					Load	Eject	Stop
58	VDD	—					
59	SPCO	CMOS OUT	Spindle motor rpm sensor circuit ON/OFF				
60	SQCK	CMOS OUT	Sub-code clock				
61	BRXEN	CMOS OUT	Bus reception enable output "Hi-Z"= Reception enable				
62	BRST	CMOS IN	Bus reset				
63	XRST	CMOS OUT	CD LSI reset output				"L"=Reset
64	XLT	CMOS OUT	Serial data latch output				

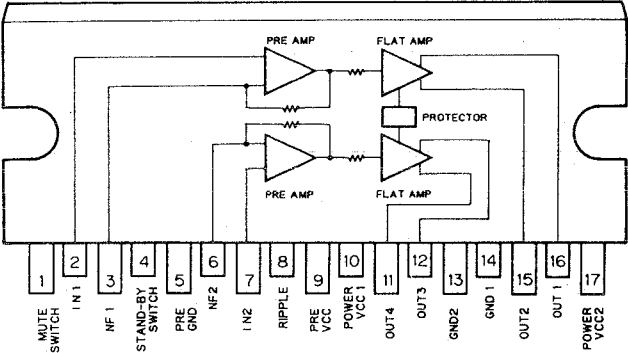
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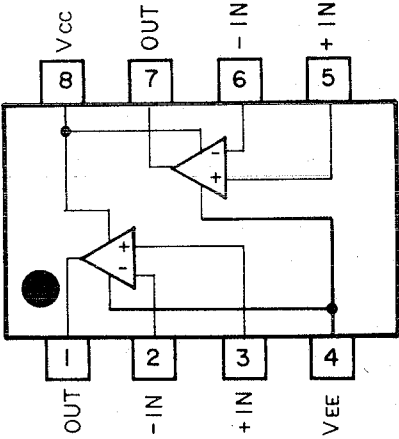
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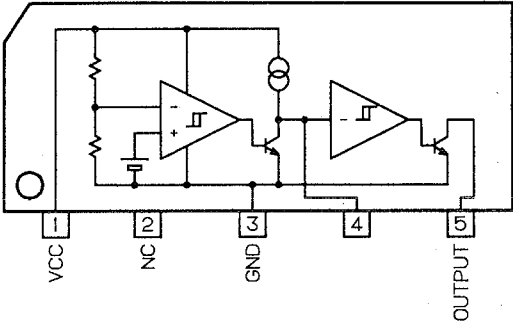
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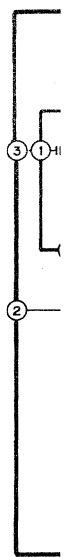


NJM4558MD
NJM2068MD



M51953BL

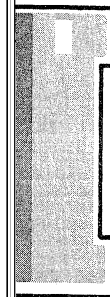




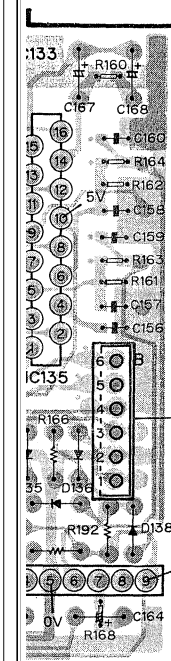
Pin Name	I/O	Output Format	Standby	Function and Operation
T2	O		L	Mechanism switch strobe output pin.
T1	O		L	
T0	O		L	
EAL	O		L	Equalizer switch output pin.
SS				GND
NS	I			Backup voltage detection input pin.
NS	I			ACC voltage detection input pin.
S	I			Music signal input pin.
SW	I			TUNER power on/off input pin.
C				
EV	I			TUNER SD level detection input.
IN	I			During AM operation, detects illumination voltage and switches LOC/DX.
CNT	I			Clock output authorization input
TE		C	H	Mute output pin.
INANT	O	C	H/L	Clock output/TUNER antenna output pin.
E	O	C		Key touch beep output pin
PW	O	C	L	Power amplifier ON output pin.
SI	I			Bus data input pin
O	O			Bus data output pin
CK	I/O			Communications clock input/output pin.
RQ	I			Data communications serial poll request.
PW	O	NM	H (Hiz)	DECK power supply control
PW	O	NM	H (Hiz)	TUNER power supply control
T1	O	NM	Hiz	Key matrix strobe output.
T0	O	NM	Hiz	Key matrix strobe output.
KST2	O	NM	Hiz	Key matrix strobe output.
KD0	I			Key matrix return input.
C				
D				
SB	O	C	H/L	AUX operation disable
ST	O	C	L	Bus reset
IN	I			AUX operation input
DI	I			LC7218: Data input
K	O	C		LC7218: Clock
T	O	C		LC7218: Data output

Meaning
C-MOS
Neutral resistivity
N channel open drain

	Symbol	Function
put used in detection of	FEO2	Focus 2 (IC655 pin no.1)
	FLOAT	Carriage mechanism play position detector signal
	HOME	Home position detector signal (pick-up at home position when “L”)
	IN1	Motor control signal 1
or control during playback)	IN2	Motor control signal 2
put used in detection of	IN3	Motor control signal 3
	ISETY	SET resistance pin (IC601 pin no.31)
upply)	LAMP	Photo-interrupter drive signal
	LD	Laser diode
	LOAD	Disc loading power supply ON/OFF signal
	MON	Motor ON (spindle forward or reverse when “H”)
clock	MD	Monitor diode
	MUTG	Mute signal (muting ON when “L”)
pled by connecting to 51 operation)	POWER	Power supply control signal
	REG5	+ 5V
pled by connecting to 52 operation)	SLO	Carriage output signal (IC601 pin no.14)
put used in detection of	SM +	Spindle motor drive signals (PWM OUT)
	SM –	
ol signal (brake on when	SPC	Spindle motor rpm detector signal (low speed when “L”, IC656 pin nos.1 & 7)
	SPCO	Spindle brake (spindle brake when “H”, IC751 pin no. 59)
nal (PWM OUT)	SPDLO	Spindle motor error signal (IC601 pin no.39)
nal (ON when “H”)	SPTAO	Tracking side path signal output
tput used in detection of	SMIN	Spindle motor drive PWM input signal
	STBY	Standby position detector signal
r (emphasis ON when “H”)	TA +	Tracking actuator drive signals (PWM OUT)
	TA –	
en defect)	TAIN	Tracking actuator drive PWM input signal
signal	TEND	Mechanism clamped switching line
ector	TGU	Tracking side path input
	TIG	Switch ground
	TOG	Switch ground
D position detector signal	TZC	T.E zero-cross signal
ector	VC	Signal reference voltage (2.5V)
nal (PWM OUT)	VREF	Signal reference voltage buffer output (2.5V)
signal		
01, CXA1082AQ pin no.5)		



C135 IC136



A

B

C

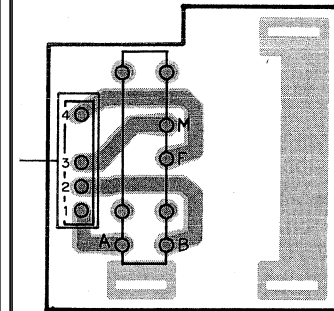
D

AUDIO POWER
UNIT
TO J

CD UNIT
TO L

Fig. 50

CONNECTOR
P.C. BOARD

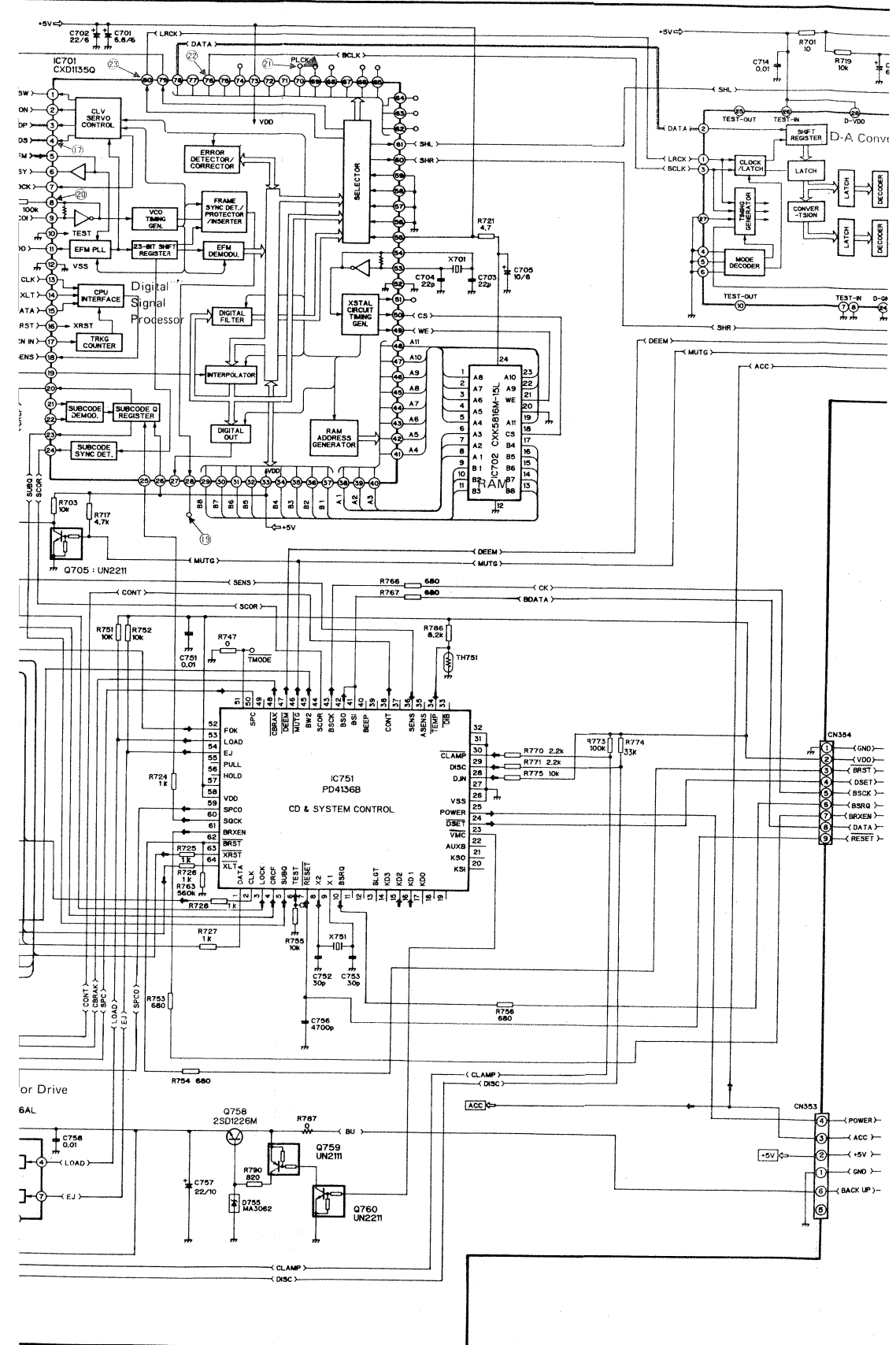


A

B

C

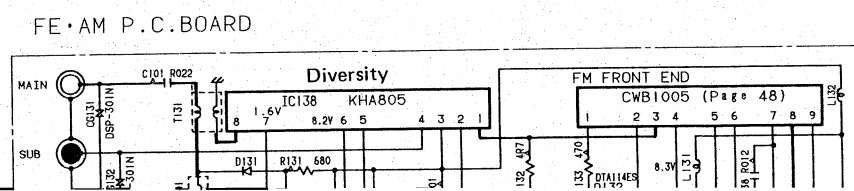
D



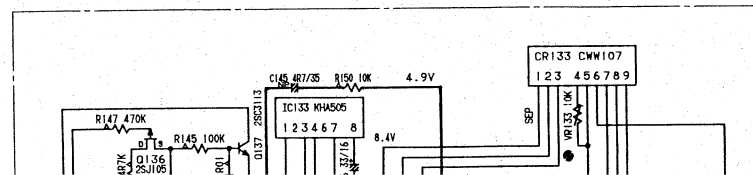
1 2 3 4 5

8. SCHEMATIC CIRCUIT DIAGRAM (1)

A



IF-MPX P.C. BOARD



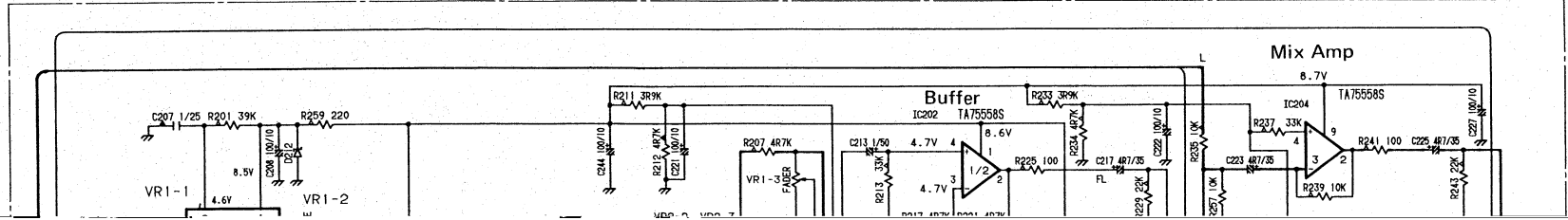
Tuner Unit

- Consists of
- Connector
 - FE-AM P.C.
 - IF-MPX P.C.

er Unit
sists of
Connector P.C.Board
FE-AM P.C.Board
IF-MPX P.C.Board

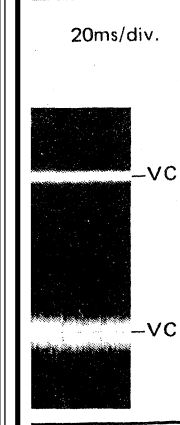
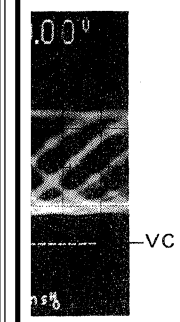
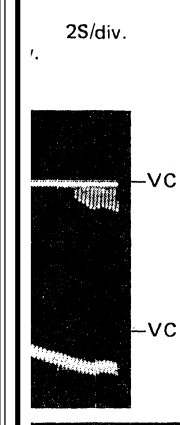
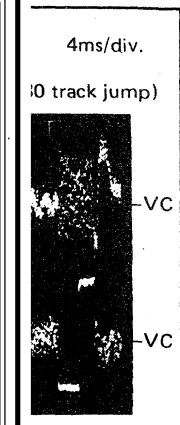
ontrol Unit
sists of
Control P.C.Board
Dolby NR P.C.Board

AUDIO POWER UNIT



TO AE PROCESSING UNIT

the circuit diagram.



11. SCH

- AE
- DEF

A

—

B

—

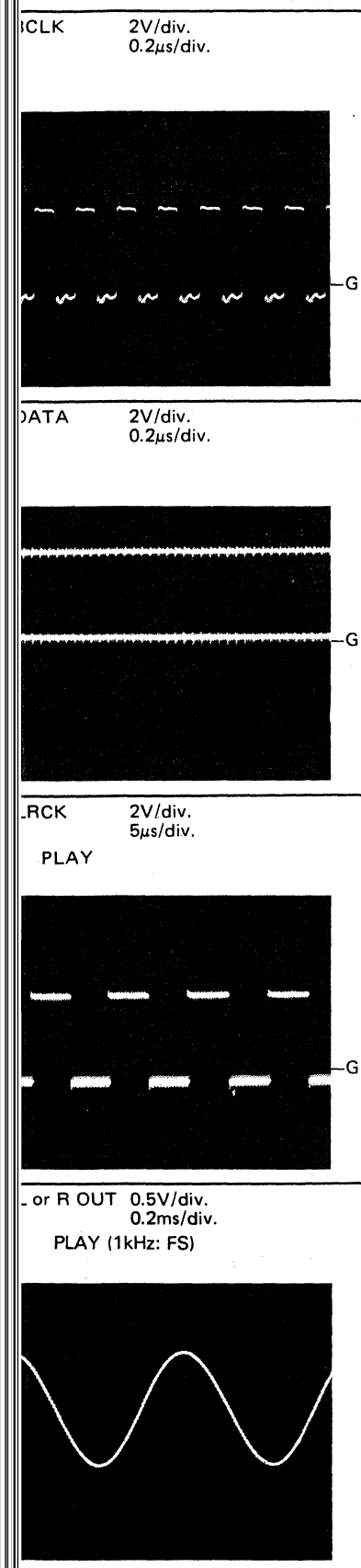
C

AM FM C
CD COI

—

D

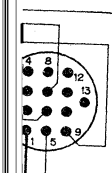
AM FM C
CD COI



6



A



TO
AM FM CASSETTE
CD COMBINATION

B

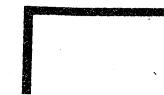


C



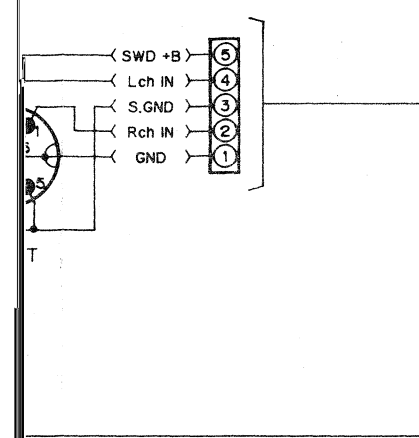
D

Fig. 54

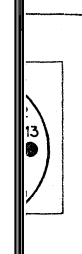


8

1

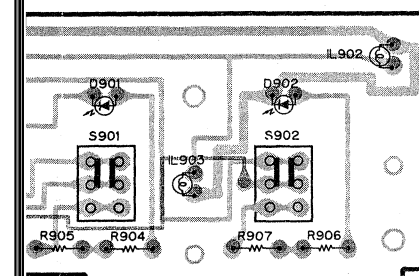


A



TO
AM FM CASSETTE
CD COMBINATION

B



C

D

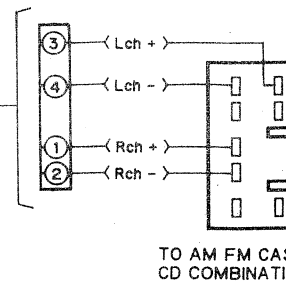
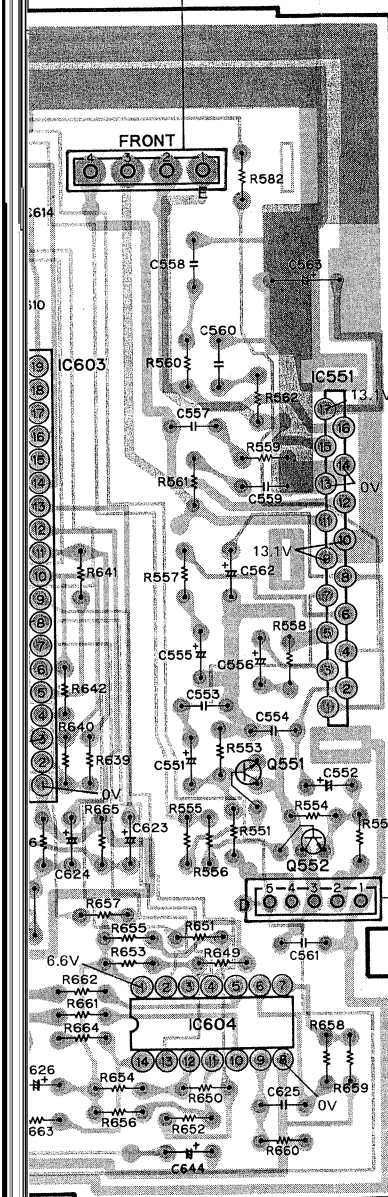
Fig. 55

8

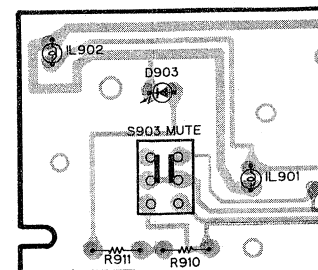
1

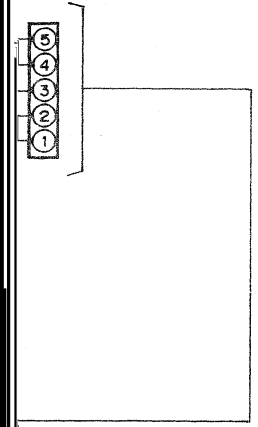
9

603 IC604 Q551 Q552 IC551

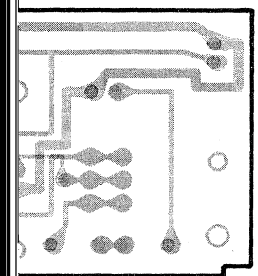


GRILLE P.C. BOARD





ASSETTE
NATION



A

B

C

D

Fig. 56

14. SCHEMATIC CIRCUIT DIAGRAM (4)

- AE PROCESSING UNIT
- DEH-K4141ZM, XF-4141ZM-91

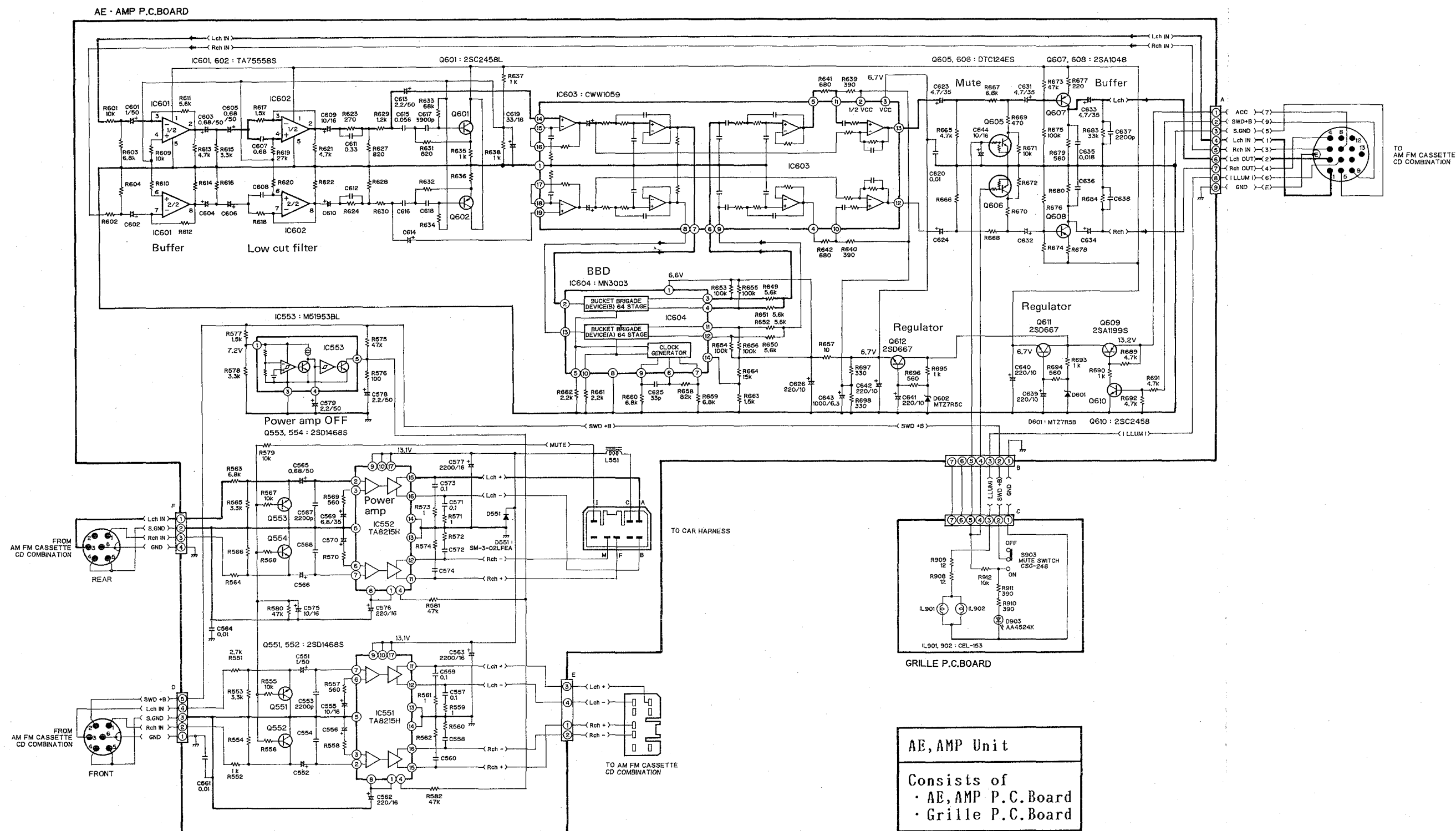


Fig. 57

Part No.	Description	Mark	No.	Part No.	Description
IV1627	Gear		86	CNV1780	Holder
IV1629	Gear		87	CNV1674	Holder
IA2456	Gear Unit	★★	88	CSN-094	Switch(Home)
	Bracket Unit	★★	89	CXM1033	Motor Unit(Spindle)
IV-265	Cushion	★★	90	CNT1020	Belt
IA1910	Carriage Unit		91	CXA2375	Screw Unit
SH1136	Spring		92	CNV1781	Holder
	Arm Unit		93	CNP1709	P.C.Board
	Spacer		94		Shaft
IR1079	Ball		95		Shaft
IV1643	Clamper		96	CNV1512	Holder
	Guide		97	CGY1007	PU Unit
	Chassis Unit		98	CBH1199	Spring
IC1738	Holder		99	CBL1010	Short Pin
IC1739	Holder		100	CBH1105	Spring
IS20P030FMC	Screw		101	CNC1736	Holder
IA-163	Screw		102	CLA1319	Screw
SH1138	Spring		103		Holder Unit
	Bracket Unit		104	CBH1106	Spring
	Holder Unit		105	CNV1513	Rack
IA-098	Screw		106	CNV1863	Cushion
	Bracket		107		Cover
IA2133	Motor Unit(Carriage)		108		Cushion
SH1104	Spring		109	YE12FUC	Washer
IV1844	Spacer				

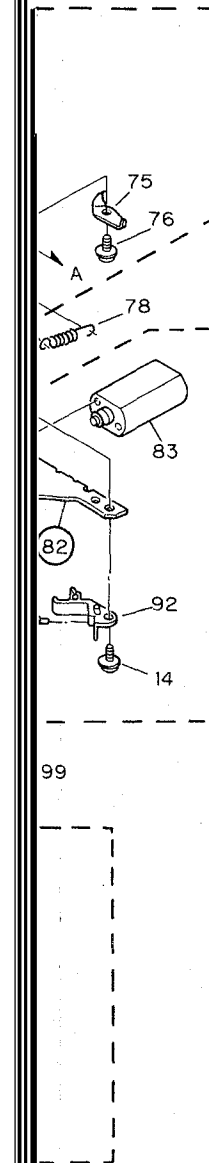


Fig. 58

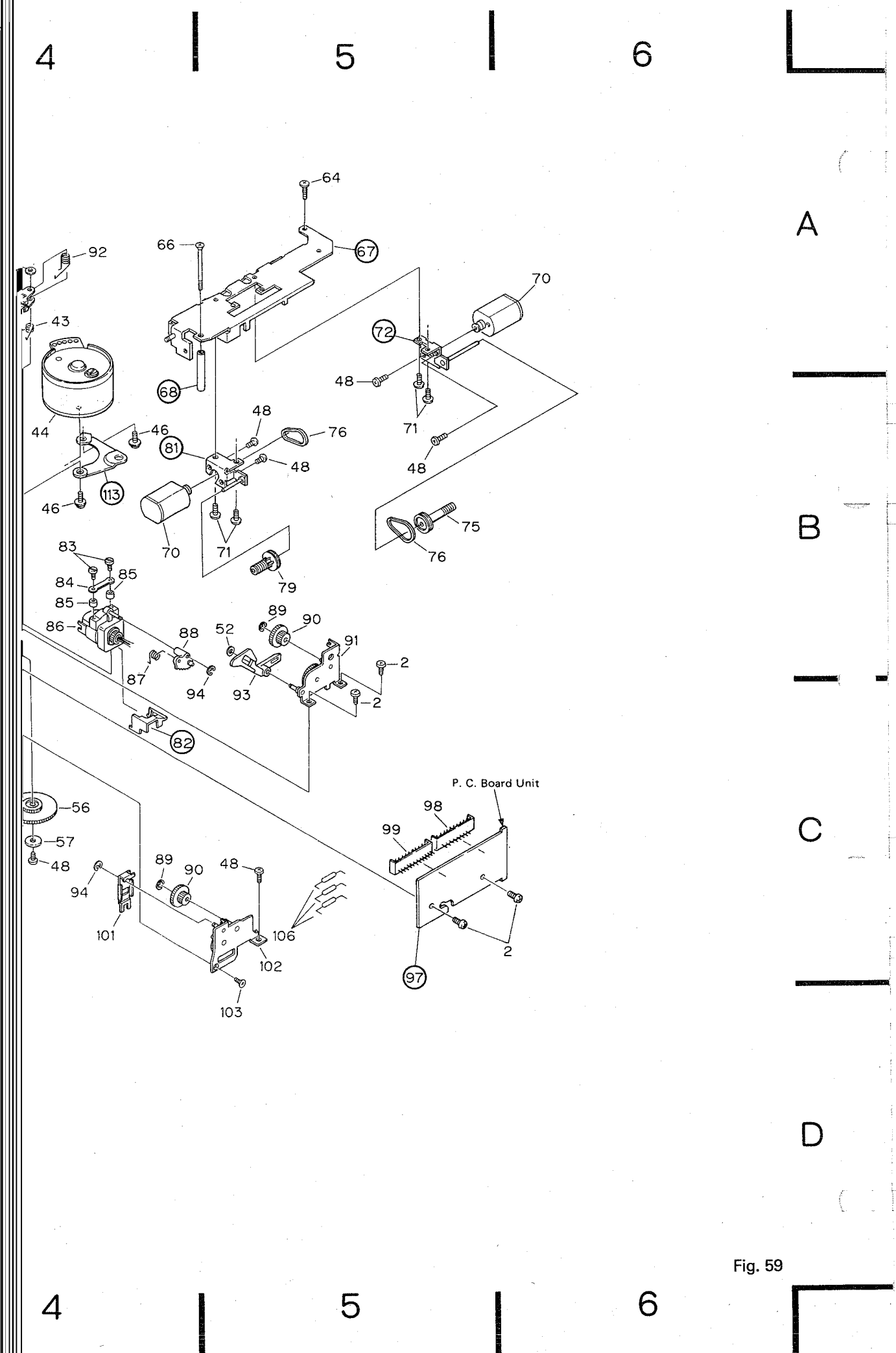


Fig. 59

Description

Crew
Spring
Crew M2×2.5
Pacer
Spring

Washer
Washer
Spring
Collar
Flamper

Gear
Collar
Flywheel
Belt
Insulator

Insulator
Cover
Crew
Crew M1.7×5.5

Crew M2×25
Guide
Pacer

Motor Unit
(FF/REW, Head Position)

Crew
Bracket Unit
Inch Roller Unit
Crew M2×2.5
Trolley

Belt

Trolley
Screw M2×5

Bracket Unit
Cover
Screw M1.4×8
Spring
Azimuth Rubber

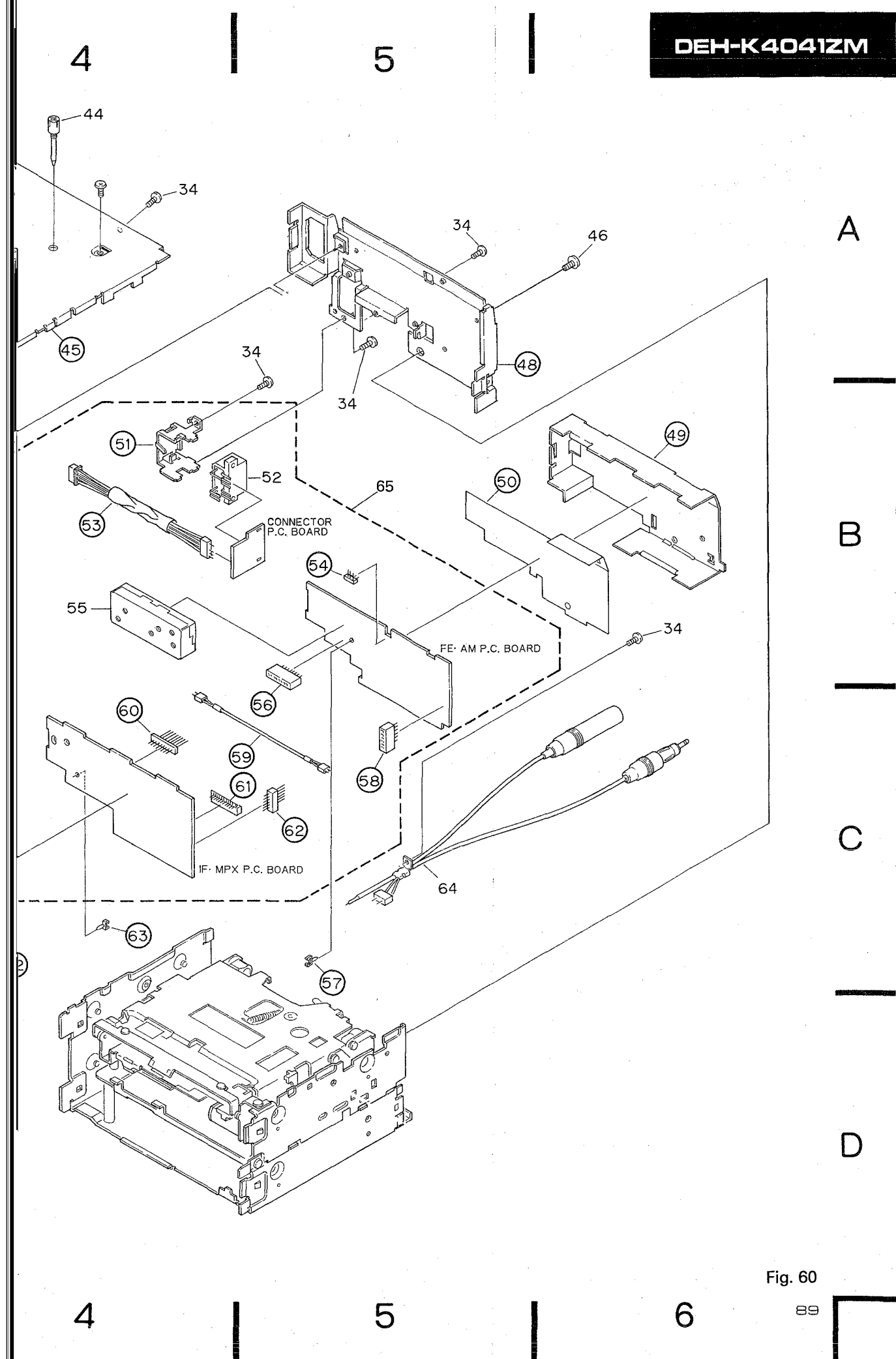
Head Unit
Spring
Gear
Type Washer
Gear

No.	Part No.	Description	Mark	No.	Part No.	Description
01	CXA1688	Holder Assy	★	106	1S1555	Diode
02	CBH-831	Spring		107	.....
03	CNV1495	Arm		108	CNV1253	Arm
04	YE15FUC	E Type Washer		109	CBA1060	Screw M2×7
05	.....			110	CBA1015	Screw M2×4
06	.....			111	CBA1041	Screw M2×2.5
07		P.C. Board		112		Spacer
08	CKS1055	Connector (8P)		113		Bracket
09	CKS1059	Connector (12P)				
10	.....				
11	CNH-004	Arm				
12	CXA1689	Holder Assy				
13	HBA-209	Screw M2×2				
14	.....				
15	.....				

MASSIS (1) EXPLODED VIEW

List

No.	Part No.	Description	Mark	No.	Part No.	Description
1	CWM1770	Key Board Unit	★	36	CAC1911	Button (OK)
2		Holder	★	37	CAC1913	Button (APC)
3	CWW1173	LCD	★	38	CAC1912	Button (PRO)
4	CNV1777	Connector		39	.....
5	CNM2095	Plate	★	40	CAC1915	Button (FM)
6	CNV1774	Lens	★	41	CAC1916	Button (AM)
7		Connector	★	42	CAC1917	Button (CD)
8	CEL-153	Lamp	★	43	CAC1918	Button (TAPE)
9	CNM1993	Spacer		44	CBA1096	Screw
10	CEL1071	Lamp		45		Case Unit
11	CNV1773	Lens		46	BMZ50P060FMC	Screw
12	CNV1776	Housing		47	.....
13	CNV1770	Lens		48		Case
14	CNV1771	Lens		49		Case
15	CNV1772	Lens		50		Insulator
16	CNP1806	P.C. Board		51		Bracket
17	BPZ20P080FMC	Screw		52	CKM1035	Connector
18		Cushion		53		Connector
19	CAC1906	Button (AUTO, SCAN)		54		Plug
20	CAC1907	Button (1, 4)		55	CWB1005	FM Front End
21	CAC1908	Button (2, 5)		56		Plug
22	CAC1909	Button (3, 6)		57		Clamper
23		Cushion		58		Plug
24	CBH1044	Spring		59		Connector
25	CAT1163	Door		60		Plug
26	CAC1914	Button (EJECT)		61		Plug
27	CAC1910	Button (UP, DOWN)		62		Plug
28	CXA2590	Grille Unit		63		Clamper
29	CAA1141	Knob		64	CDH1097	Antenna Cable
30	CAA1168	Knob	⊙	65	CWE1119	Tuner Unit
31	CAA1139	Knob				
32		Insulator				
33		Case				
34	BMZ30P050FMC	Screw				
35		Cushion				



18. CHASSIS (2) EXPLODED VIEW

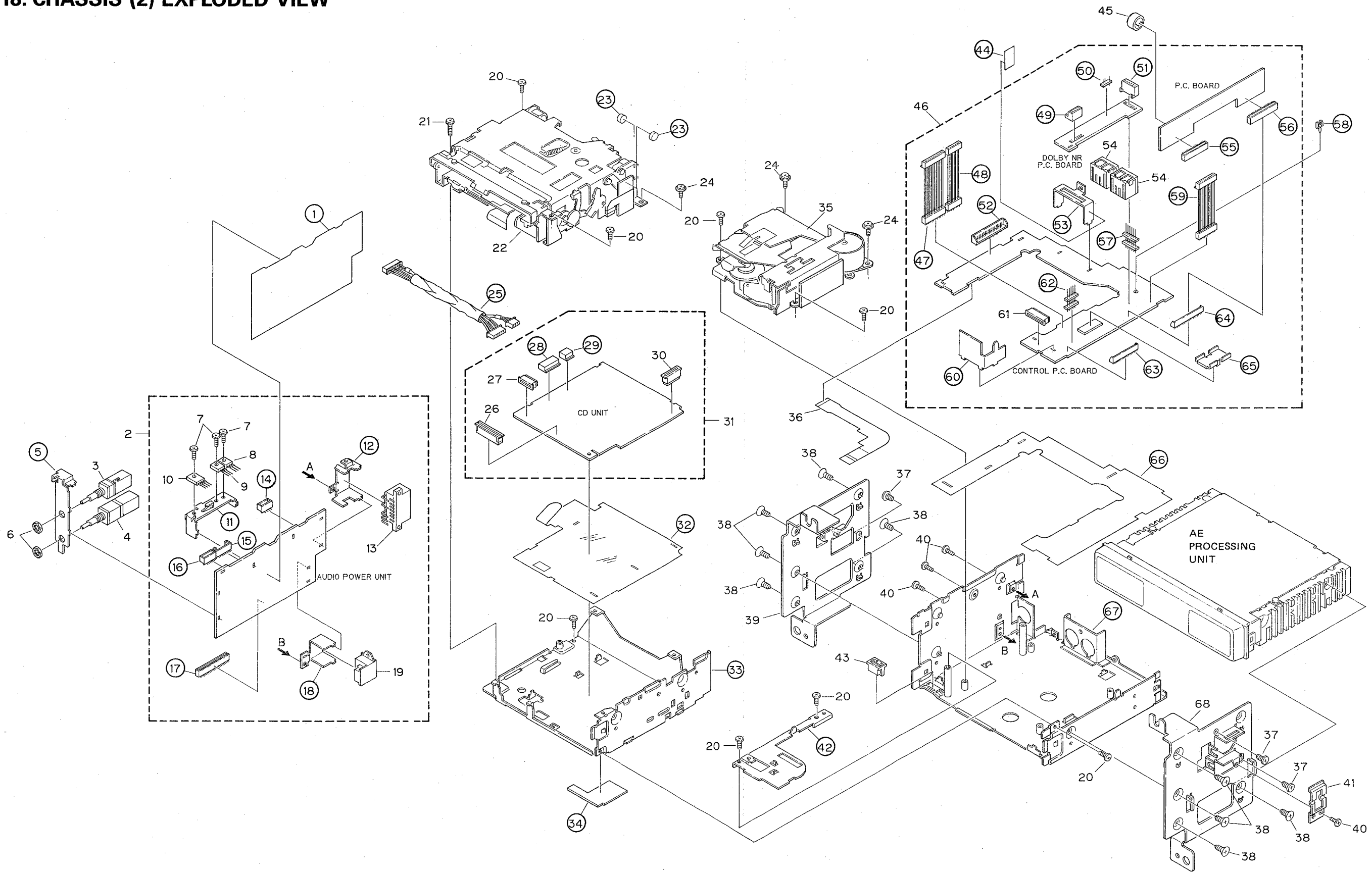


Fig. 61

● Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1		Insulator		36	CNP1968	P.C. Board
◎	2	CWM1775	Audio Power Unit		37	BMZ50P080FMC	Screw
★★	3	CCS1122	Volume		38	CMZ50P080FMC	Screw
★★	4	CCS1104	Volume		39	CNC2771	Bracket
	5		Bracket		40	BMZ30P050FMC	Screw
	6	NK70FMC	Nut		41	CNC2531	Holder
	7	BMZ30P060FMC	Screw		42		Bracket
★★	8	2SC3421	Transistor		43	CNV1823	Guide
★★	9	2SA1358	Transistor		44		Insulator
★★	10	AN7805R	IC		45	CPV1005	Buzzer
	11		Bracket	◎	46	CWM1769	Control Unit
	12		Bracket		47		Connector
	13	CKM1036	Plug		48		Connector
	14		Plug		49		Connector
	15		Plug		50		Plug
	16		Plug		51		Connector
	17		Connector		52		Plug
	18		Bracket		53		Bracket
	19	CKS1513	Plug		54	CKS1507	Connector
	20	BMZ26P050FMC	Screw		55		Connector
	21	PMA26P100FMC	Screw		56		Connector
◎	22	CXK2220	CD Mechanism Unit		57		Plug
	23		Insulator		58		Clamper
	24	PMF26P050FMC	Screw		59		Connector
	25		Connector		60		Bracket
	26	CKS1415	Connector		61	CKS1175	Connector
	27	CKS1169	Connector		62		Plug
	28		Plug		63		Plug
	29		Plug		64		Plug
	30	CKS1328	Connector		65		Heat Sink
◎	31	CWX1190	CD Unit		66		Insulator
	32		Insulator		67		Chassis
	33		Chassis		68	CNC2770	Bracket
	34		Spacer				
◎	35	CXK1695	Cassette Mechanism Assy				

19. AE PROCESSING UNIT EXPLODED VIEW

• Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	CXA2614	Grille Assy (4141ZM)		25		Holder
★	2	CAC1929	Button (4141ZM)		26		Plug
★	3	CAC1852	Button (4041ZM)		27		Plug
	4	CXA2555	Grille Assy (4041ZM)		28		Plug
	5	BPZ20P060FMC	Screw		29		Plug
◎	6	CWK1024	AE, AMP Unit (4041ZM)		30		Plug
		CWK1026	AE, AMP Unit (4141ZM)		31		Holder
	7	CNV1934	Lens (4041ZM)		32	CKM1035	Plug
	8	CNV1935	Holder (4041ZM)		33		Case
★★	9	CEL-153	Lamp (4041ZM)		34	CDE2139	Connector
★	10	AA4524K	LED (4041ZM)		35	CDE2134	Connector
	11	CNV1942	Lens (4041ZM)		36	CDE2137	Cord
	12	BPZ20P060FZK	Screw (4041ZM)		37	CDE2138	Cord
	13	BPZ20P060FZK	Screw (4141ZM)		38		Case
	14	BPZ20P060FMC	Screw (4041ZM)		39		Heat Sink
	15	BPZ20P060FMC	Screw (4141ZM)		40		Insulator
★★	16	CEL-153	Lamp (4141ZM)		41	BMZ50P080FMC	Screw
★	17	AA4524K	LED (4141ZM)		42	CNC2358	Bush
	18	CNV1983	Holder (4141ZM)		43		Chassis
	19	CNV1984	Lens (4141ZM)				
	20	CDE2135	Connector				
	21	BMZ30P060FMC	Screw				
	22	BMZ30P140FMC	Screw				
	23		Heat Sink				
★★	24	TA8215H	IC				

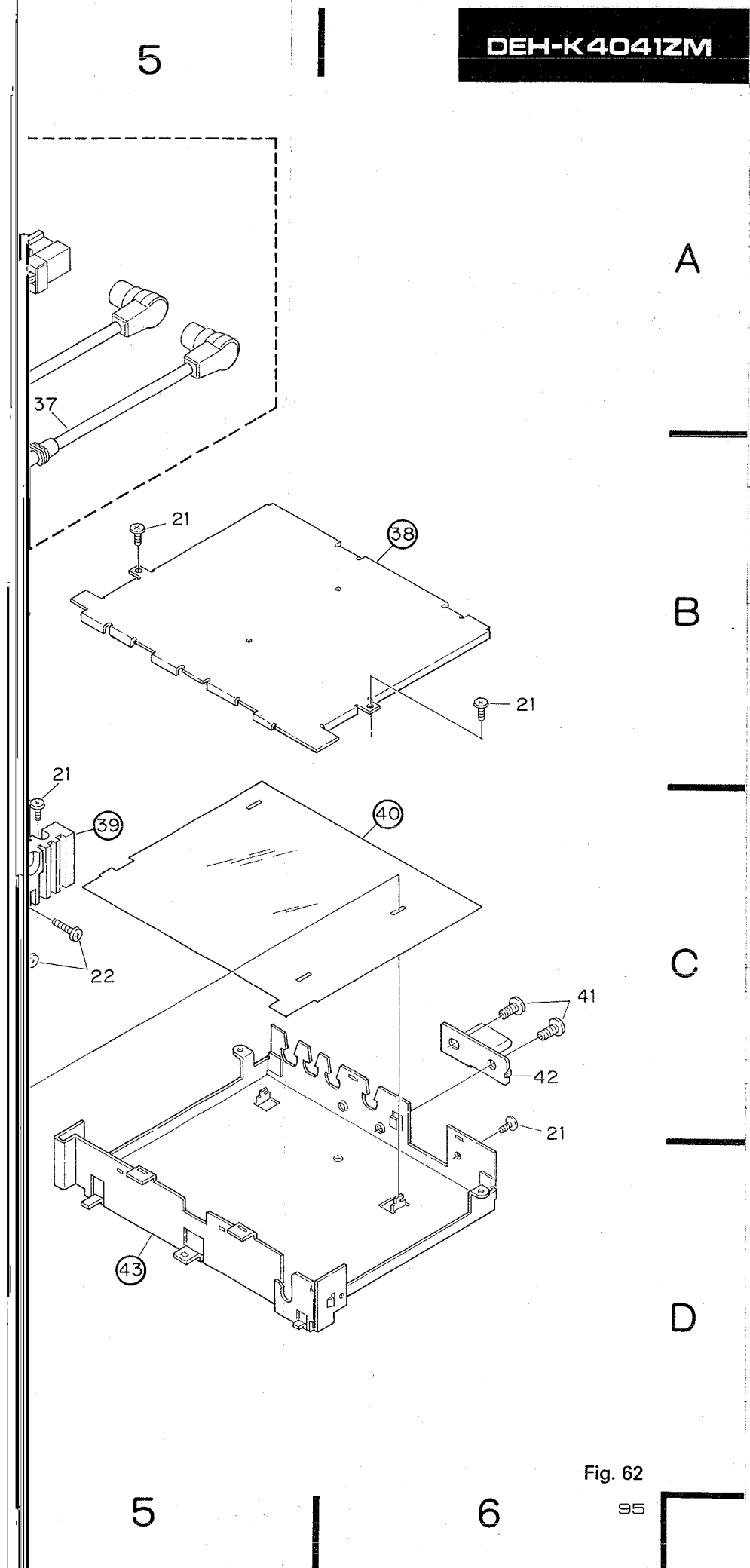


Fig. 62

icated with the

e it depends on

supplied.

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C	5	11 15 20		CKSYB222K50	
C	6			CCSCH040C50	
C	7	10		CKSYB103K50	
C	8			CCSCH100D50	
C	9			CCSSH560J50	
C	12	18		CCSTH150J50	
C	13			CCSTH330J50	
C	14			CCSTH100D50	
C	16	19 21		CKSYB223K50	
C	17			CCSUJ080D50	
C	22			CEA2R2M35LS	
C	23			CEA3R3M25LS	
C	24			CCSSH030C50	

Unit Number :
Unit Name : Tuner Unit

Tuner Unit
Consists of
• Connector P. C. Board
• PE-AM P. C. Board
• IF-MPX P. C. Board

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
**	IC	101		LA1137N	
**	IC	131		PA5011	
**	IC	132		KHA141A	
**	IC	133		KHA505	
**	IC	134		LA2110	
**	IC	135		LA3430P	
**	IC	136		TA75558S	
**	IC	137		LC7218	
**	IC	138		KHA805	
**	Q	101		2SK435	
**	Q	102 135 138		2SC2458	
**	Q	103 104 131 133 134		DTC124ES	
**	Q	132 143 144		DTA114ES	
**	Q	136		2SJ105	
**	Q	137 140		2SC3113	

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
**	Q	139		2SK330	
**	Q	141 142		2SA1150	
*	D	101 102 103 104 105 132 133 135 136 137		1SS133	
*	D	106		KV1280F1-2	
*	D	107 138 139 140		1SS133	
*	D	131		1SV99	
*	D	134		RD3ROESB2	
*	D	141		RD5R1JSB2	
L		101	Ferri-Inductor	CTF-157	
L		131 132 133 134	Ferri-Inductor	LAU150K	
T		101	Coil	CTB-149	
T		102	Coil	CTB-171	
T		103	Coil	CTB1025	
T		104	Coil	CTB1026	
T		105	Coil	CTE1017	
T		106	Coil	CTE1018	
T		107	Coil	CTB1024	
T		131	Transformer	CTC-195	
T		132	Coil	CTC1029	
CG		131 132	Surge Protector	DSP-301NS00B	
CF		101	Filter	CTF-100	
CF		102	Ceramic Resonator	CTF1039	
CF		131	Ceramic Filter	CTF-182	
CR		132		CWW1145	
CR		133		CWW-107	
X		131	Crystal Resonator	CSS1030	
X		132	Ceramic Resonator	CSS1022	
**	VR	101	Semi-fixed 1k Ω (B)	VRTB4VS102	
**	VR	131 132 134	Semi-fixed 22k Ω (B)	VRTB4VS223	
**	VR	133	Semi-fixed 10k Ω (B)	VRTB4VS103	
			FM Front End	CWB1005	

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R		101		RD1/4PS152JL	
R		102 107 113 114 120 149 150		RS1/10S103J	
R		103 133		RS1/10S471J	
R		104 154		RS1/10S682J	
R		105 135		RS1/10S330J	
R		106		RS1/10S220J	
R		108		RS1/10S394J	
R		109 176 177 185 186 187 188 189		RS1/10S222J	
R		110 146 160 161 162 178 183		RS1/10S472J	
R		111		RS1/10S153J	
R		112 174 175		RS1/10S223J	
R		115 121		RS1/10S513J	
R		116 167 168		RS1/10S101J	
R		117		RD1/4PS562JL	
R		118 119 145 170 171 172 173		RS1/10S104J	
R		131		RS1/10S681J	
R		132		RS1/8S4R7J	
R		134		RS1/8S223J	
R		139 158 180 181		RS1/10S102J	
R		140		RD1/4PS331JL	
R		141		RD1/4PS183JL	
R		142		RD1/4PS682JL	
R		143		RD1/4PS392JL	
R		144		RD1/4PS472JL	
R		147		RS1/10S474J	

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R		148 151		RD1/4PS223JL	
R		152 182		RD1/4PS222JL	
R		153		RS1/10S392J	
R		155		RS1/10S563J	
R		156		RS1/10S393J	
R		157 159		RS1/10S473J	
R		163 164		RS1/10S332J	
R		165 166		RD1/4PS333JL	
R		169		RS1/10S334J	
R		179		RS1/10S152J	
R		184		RD1/4PS103JL	
R		190		RD1/4PS104JL	
R		191 192		RD1/4PS224JL	

CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C		101 104 108 109 110 116 117 123 139 140		CKSQYB223K25	
C		102 111 113		CCSQCH100D50	
C		103		CKSYB223K25	
C		105 126		CCSQCH220J50	
C		106 147		CEA101M10LS	
C		107 115 142 143 163 164 168 182		CEA010M50LS2	
C		112		CCSQCH010C50	
C		114 118		CKSYB333K25	
C		119 180		CKSYF105Z25	
C		120		CEA4R7M35LS	
C		121 165		CEA3R3M50LS	
C		122		CEA4R7M50LS2	
C		124		CQPA751G2A	
C		125		CCSQCH390J50	
C		127		CQPA101G2A	
C		128 133 137 144 150 151 154 170 172		CKSQYB103K50	
C		129 153 161		CEA470M16LS	
C		130		CCSQL270J50	
C		131 156 177		CKSQYB222K50	
C		132 136 171 179		CEA100M25LS	
C		134		CEA220M16LS	
C		135		CCSQL471J50	
C		138		CKSQYB123K50	
C		141		CCSQCH180J50	
C		145		CEA4R7M16NPLL	
C		146		CASA330K16	
C		148		CEA2R2M50LS2	
C		149		CKSYB473K25	
C		152		CKSQYB182K50	
C		155 159 160		CKSQYB332K50	
C		157 158		CKSQYB183K25	
C		162		CKSQYB102K50	
C		166 178 181		CKSQYB223K25	
C		167		CSZAR22K35	
C		169	4.7 μ F/16V	CCH1005	
C		173 174		CCSQCH101J50	
C		175 176		CCSQCH270J50	

Unit Number :
Unit Name : AE, AMP Unit

AE, AMP Unit
Consists of · AE, AMP P.C. Board · Grille P.C. Board

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
** IC 551 552				TA8215H	
** IC 553				M51953BL	
** IC 601 602				TA75558S	
** IC 603				CWW1059	
** IC 604				MN3003	
** Q 551 552 553 554				2SD1468S	
** Q 601 602				2SC2458L	
** Q 603 604 (K4041ZM)				DTC124ES	
** Q 605 606				DTC124ES	
** Q 607 608				2SA1048	
** Q 609				2SA1199S	
** Q 610				2SC2458	
** Q 611 612				2SD667	
* D 551				SM-3-02LFEA	
* D 601				MTZ7R5B	
* D 602				MTZ7R5C	
* D 901 902		LED (K4041ZM)		AA4524K	
* D 903		LED (K4141ZM)		AA4524K	
L 551		Choke Coil		CTH1017	
** S 901 902		Switch (K4041ZM)		CSG-248	
** S 903		Switch (MUTE) (K4141ZM)		CSG-248	
** IL 901 902 903		Lamp (K4041ZM)		CEL-153	
** IL 901 902		Lamp (K4141ZM)		CEL-153	

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R 551 645 646			(K4041ZM)	RD1/4PS222JL	
R 551			(K4141ZM)	RD1/4PS272JL	
R 552 635 636 637 638 690 693 695				RD1/4PS102JL	
R 553 554 565 566 578 615 616				RD1/4PS332JL	
R 555 556 567 568 579 601 602 609 610				RD1/4PS103JL	
R 557 558 569 570 679 680 694 696				RD1/4PS561JL	
R 559 560 561 562 571 572 573 574				RD1/4PS010JL	
R 563 564 603 604 659 660 667 668				RD1/4PS682JL	
R 575 580 581 582 673 674				RD1/4PS473JL	
R 576				RD1/4PS101JL	
R 577 617 618 663				RD1/4PS152JL	
R 601 602			(K4041ZM)	RD1/4PS153JL	
R 601 602			(K4141ZM)	RD1/4PS103JL	
R 611 612 649 650 651 652				RD1/4PS562JL	
R 613 614 621 622 665 666 689 691 692				RD1/4PS472JL	
R 619 620				RD1/4PS273JL	
R 623 624				RD1/4PS271JL	
R 627 628 631 632				RD1/4PS821JL	
R 629 630				RD1/4PS122JL	
R 633 634				RD1/4PS683JL	
R 639 640				RD1/4PS391JL	
R 641 642				RD1/4PS681JL	
R 647 648			(K4041ZM)	RD1/4PS334JL	
R 653 654 655 656 675 676				RD1/4PS104JL	
R 657				RD1/4PS100JL	
R 658				RD1/4PS823JL	
R 661 662				RD1/4PS222JL	
R 664				RD1/4PS153JL	
R 669 670			(K4041ZM)	RD1/4PS822JL	
R 669 670			(K4141ZM)	RD1/4PS471JL	

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R 671 672			(K4041ZM)	RD1/4PS104JL	
R 671 672			(K4141ZM)	RD1/4PS103JL	
R 677 678				RD1/4PS221JL	
R 683 684				RD1/4PS333JL	
R 697 698				RD1/4PS331JL	
R 901 902 903			(K4041ZM)	RD1/4PS4R7JL	
R 904 905 906 907			(K4041ZM)	RD1/4PS271JL	
R 908 909			(K4141ZM)	RD1/4PS120JL	
R 910 911			(K4141ZM)	RD1/4PS391JL	
R 912			(K4141ZM)	RD1/4PS103JL	

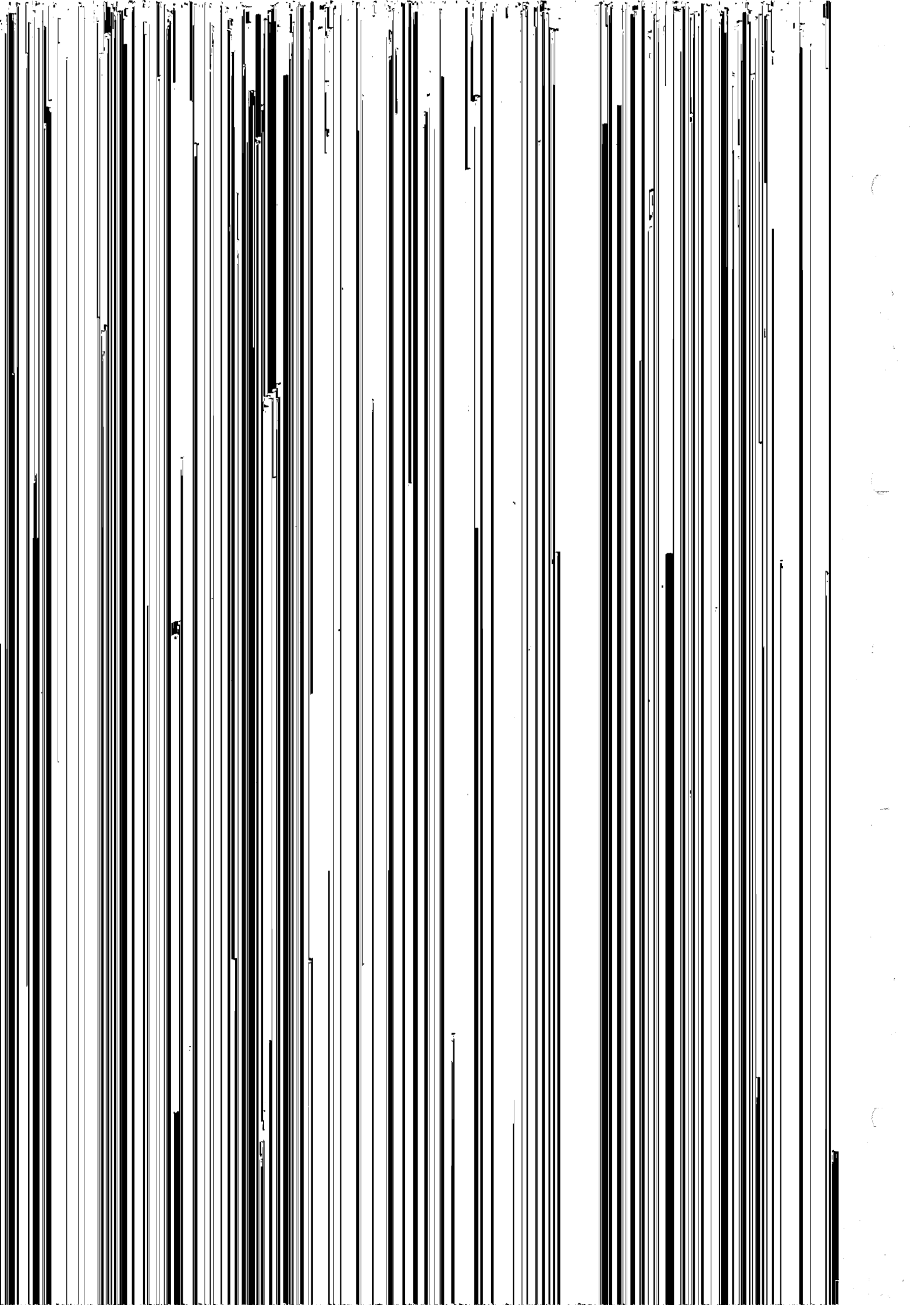
CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C 551 552				CEA010M50L2	
C 553 554 567 568 637 638				CQMA222J50	
C 555 556				CEA100M16L2	
C 557 558 559 560 571 572 573 574				CQMA104J50	
C 561 564 620				CQMA103J50	
C 562 576				CEA221M16L2	
C 563 577			2200 μ F/16V	CCH-123	
C 565 566 604 605 606				CEAR68M50LS2	
C 569 570				CEA68M35LS	
C 575 609 610				CEA100M16L2	
C 578				CEA2R2M50LS	
C 579				CEA2R2M50LS2	
C 601 602				CEA010M50L2	
C 603				CEAR68M50LS	
C 607 608				CQFAH684J50L	
C 611 612				CQEA334J63	
C 613 614				CEA2R2M50L2	
C 615 616				CQMA563J50	
C 617 618				CQMA392J50	
C 619				CEA330M16L2	
C 621 622			(K4041ZM)	CQMA473J50	
C 623 624 631 632 633 634				CEA4R7M35L2	
C 625				CCCCH330J50	
C 627 628			(K4041ZM)	CQMA102J50	
C 626 639 640 641 642				CEA221M10L2	
C 629 630			(K4041ZM)	CQMA104J50	
C 635 636				CQMA183J50	
C 643				CEA102M6R3L2	
C 644			(K4141ZM)	CEA100M16L2	
C 901 902			(K4041ZM)	CEAR33M50L2	

Unit Number :
Unit Name : CD Unit

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
** IC 351				CXA1081M	
** IC 601				CXA1082AQ	
** IC 651 652				PA3023	
** IC 655 657				M5218FP	
** IC 656				M5233FP	
** IC 701				CXD1135Q	
** IC 702				CXK5816M-15L	
** IC 703				μ PD6355G	
** IC 704				KHA221A	
** IC 751				PD4136B	





No.

048
023
1VS471

No.

10S472J
10S392J
10S684J
10S562J
10S473J

1PS473JL
1PS104JL
10S681J
10S682J
10S103J

10S223J
561JL
3S223J
3S222J
1PS102JL

1PS101JL
1PS561JL
1PS221JL
3S561J
10S472J

1PS332JL
1PS433JL
1PS103JL
1PS223JL
1PS821JL

No.

20M16LS
01M16LL
3223K25
P473Z50
CH330J50

7B392K50
P104Z25
70M16LS
P473Z25
7B223K25

10M50LS2
58M50LS2
H090D50
7B561K50
4R7M35LL

70M16L2
01M10LS
1P010M50
5M50LS2
7M35LS

Unit Number :
Unit Name : Key Board Unit

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
** IC 901					LC7582P
* D 901				LED	MU16-3105
** IL 901 902 903				Lamp	CEL1071
** IL 904 905 906 907 908 909 910 911 912				Lamp	CEL-153
** S 901 902 903 904 905 906 907 908 909 910				Switch	CSG-253
** 911 912 913 914 915 916 917 918 919				LCD	CWW1173
R 901					RD1/4PS104JL
R 902					RN1P6R8JL
C 901					CKPYB331K50L
C 902					CKPYF223Z25L

Unit Number :
Unit Name : Audio Power Unit

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
** IC 201					KHA125
** IC 202 203 204					TA75558S
** IC 205					AN7805R
** IC 206					M5236L
** Q 201 202					DTC343TS
** Q 203 211					DTC124ES
** Q 204					2SB1243
** Q 205					2SA1358
** Q 206					2SC3421
** Q 207 209					DTC114ES
** Q 208					2SB1357
** Q 210					DTA124ES
* D 201 202 205 206					1SS133
* D 203					RD9R1JSB2
* D 204					RD6R8JSB3
* D 207 210 211					ERA15-02VH
* D 208 209					SM-3-02LFDA
* D 212					RD5R6JSB2
L 201 202				Coil	CTH1053
L 203				Ferri-Inductor	CTP-157
CR 201					CWW1131

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R 201					RS1/10S393J
R 202					RD1/4PS222JL
R 203 204					RS1/10S102J
R 205 206					RS1/10S332J
R 207 208 217 218 219 220 221 222 223 224					RS1/10S472J
R 209 210 234					RS1/10S472J
R 211 233					RS1/10S392J
R 212					RS1/8S472J
R 213 214 215 216 237					RS1/10S333J
R 225 226 227 228 241 242					RS1/10S101J

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R 229 230 231 232 243 244					RS1/10S223J
R 235 236 239					RS1/10S103J
R 238					RS1/8S333J
R 240 258					RS1/8S103J
R 245					RD1/4PS221JL
R 246					RD1/4PS561JL
R 248 249					RS1/8S152J
R 250					RD1/2VS102JL
R 251					RS1/8S223J
R 252					RS1/8S102J
R 253 254					RD1/4PS101JL
R 256					RD1/4PS223JL
R 257					RD1/4PS103JL
R 259					RS1/10S221J

CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C 201 202 203 204					CEA100M16LS2
C 205 206					CEA2R2M50LS2
C 207					CKSVF105Z25
C 208 222 227					CEA101M10L2
C 209 210 211 212					CEAR47M50LS2
C 213 214 215 216					CEA010M50LS2
C 217 218 219 220 223 224 225 226					CEA4R7M35LS
C 221 244					CEA101M10LS
C 228					CKSQYB223K25
C 229 232					CEA221M10L2
C 230					CKSQYB153K50
C 231 238 239					CEA470M25L2
C 233 237					CKSVB473K25
C 234					CEA010M50L2
C 236					CEA100M50L2
C 240 241 242 247			1000 μ F/16V		CCH1003
C 243			2200 μ F/16V		CCH-123
C 250					CCG1004

Unit Number :
Unit Name : Switch P.C. Board

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
** S 1				Switch(CST SET)	CSN-089
** S 2 3				Switch(CST IN, 70 μ s)	CSN1003
MR 1 2				Magnetic Resistive Device	SDME106B

Unit Number :
Unit Name : P.C. Board Unit

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
* D 1 2 3					1S1555

Unit Number :
Unit Name : Carriage P.C. Board

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
** M 831				Motor Unit(Spindle)	CXM1033
** M 832				Motor Unit(Carriage)	CXA2133
** S 831				Switch(Home)	CSN-094

Unit Number :

Unit Name : Mechanism P.C. Board

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

** Q 831	Photo-Transistor	PH102-F
** D 831	LED(Disc Detect)	SLR-981A
** M 833	Motor Unit>Loading)	CXA2129
** S 832	Switch(Disc Set)	CSN1009

Miscellaneous Parts List

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

** PU Unit	CGY1007
** Head Unit	CXA2462
** M 1 2 Motor(Head.FF/REW)	CXA2429
** M 3 Motor(Capstan)	CXM1007
BZ 801 Buzzer	CPV1005
** VR 1 Volume	CCS1104
** VR 2 Volume	CCS1122