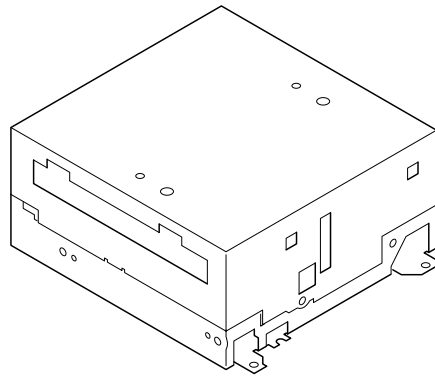




SERVICE MANUAL

MD MECHANISM

BASIC MD MECHANISM :AZG-L A

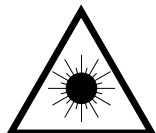
TYPE
A
YA

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

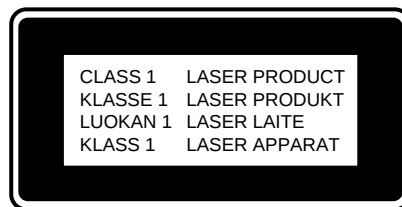
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

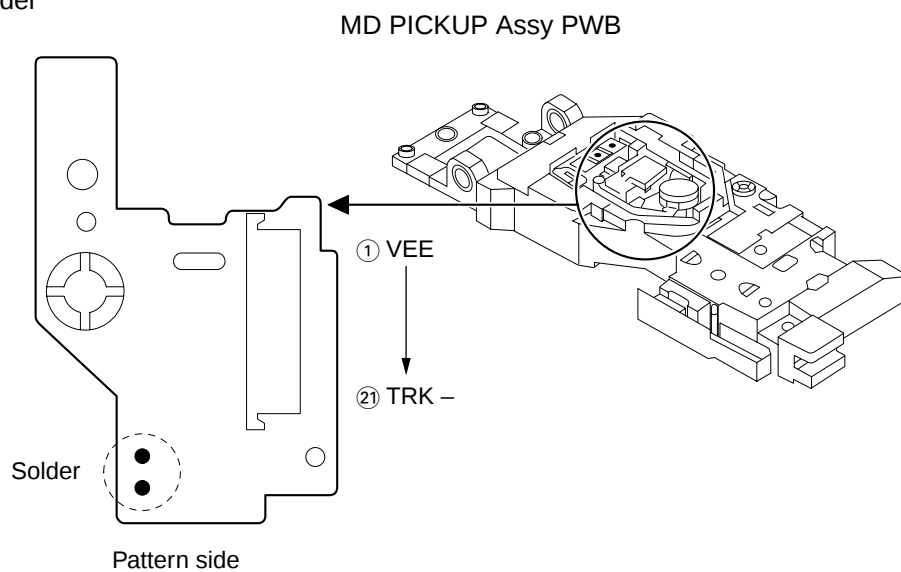
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KMS-260E)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST-1/2

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C219	87-A11-241-080		C-CAP,TN 22-6.3 M F93 A
	87-A20-707-010	C-IC,CXA2523AR		C220	87-010-662-080		C-CAP,E 22-6.3
	87-A21-610-030	C-IC,CXD2654R		C221	87-010-831-080		C-CAP,U,0.1-16F
	87-A20-709-040	C-IC,BD7910FV		C222	87-016-444-080		C-CAP,TN 47-10 F95E
	8A-ZGY-601-030	C-IC,CXP81952M-574R		C223	87-010-831-080		C-CAP,U,0.1-16F
	87-A21-733-040	C-IC,MSM51V4400D-70TKFS9		C224	87-A10-685-080		C-CAP,S 470P-100 J CH
	87-A20-755-080	C-IC,AK93C45AF		C225	87-010-831-080		C-CAP,U,0.1-16F
	87-A20-710-040	C-IC,S-8110AMP		C226	87-010-831-080		C-CAP,U,0.1-16F
	87-A20-711-040	C-IC,BA5970FP		C227	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A21-809-040	C-IC,AK4551		C228	87-012-274-080		CHIP CAP,U 1000P-50B
	87-017-853-040	IC,NJM2100V		C229	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A21-340-040	C-IC,LA5638H		C232	87-012-274-080		CHIP CAP,U 1000P-50B
TRANSISTOR				C233	87-012-274-080		CHIP CAP,U 1000P-50B
	87-026-423-080	C-TR RN2305		C236	87-010-831-080		C-CAP,U,0.1-16F
	89-115-884-080	CHIP -TRANSISTER 2SA1588Y		C237	87-012-274-080		CHIP CAP,U 1000P-50B
	89-341-164-080	CHIP-TRANSISTOR,2SC4116 Y		C300	87-010-831-080		C-CAP,U,0.1-16F
	87-026-412-080	C-TR RN1305		C301	87-010-831-080		C-CAP,U,0.1-16F
DIODE				C302	87-010-831-080		C-CAP,U,0.1-16F
	87-001-166-080	DIODE,1SS301		C305	87-016-462-080		C-CAP,S 1-16 F
	87-A40-412-040	C-DIODE,SB05-05CP		C307	87-010-831-080		C-CAP,U,0.1-16F
MD C.B				C308	87-010-831-080		C-CAP,U,0.1-16F
C100	87-A11-241-080	C-CAP,TN 22-6.3 M F93 A		C311	87-010-662-080		C-CAP,E 22-6.3
C101	87-A11-241-080	C-CAP,TN 22-6.3 M F93 A		C312	87-012-195-080		C-CAP,U 100P-50CH
C102	87-012-286-080	CAP, U 0.01-25		C321	87-012-280-080		CAP, U 3300P-50
C103	87-010-787-080	CAP, U 0.022-25		C322	87-012-280-080		CAP, U 3300P-50
C104	87-010-662-080	C-CAP,E 22-6.3		C323	87-012-287-080		C-CAP,U 0.015-25 F
C105	87-010-831-080	C-CAP,U,0.1-16F		C324	87-012-287-080		C-CAP,U 0.015-25 F
C106	87-016-462-080	C-CAP,S 1-16 F		C325	87-012-287-080		C-CAP,U 0.015-25 F
C107	87-012-195-080	C-CAP,U 100P-50CH		C400	87-010-831-080		C-CAP,U,0.1-16F
C108	87-012-274-080	CHIP CAP,U 1000P-50B		C401	87-010-831-080		C-CAP,U,0.1-16F
C109	87-016-558-080	C-CAP,TN47-6.3F93B		C402	87-010-831-080		C-CAP,U,0.1-16F
C111	87-A11-241-080	C-CAP,TN 22-6.3 M F93 A		C403	87-010-831-080		C-CAP,U,0.1-16F
C112	87-012-286-080	CAP, U 0.01-25		C404	87-010-831-080		C-CAP,U,0.1-16F
C113	87-012-284-080	CAP, U 6800P-50		C405	87-010-661-080		C-CAP,E 10-16
C114	87-010-828-080	CHIP CAPACITOR,U 0.033-25F		C406	87-010-779-080		C-CAP,E 100-6.3
C115	87-A10-369-080	C-CAP,S 0.47-16 K B		C407	87-012-197-080		C-CAP,U 150P-50 CH
C116	87-012-282-080	CAP, U 4700P-50		C408	87-012-197-080		C-CAP,U 150P-50 CH
C117	87-016-462-080	C-CAP,S 1-16 F		C411	87-012-271-080		CAP, U 560P-50
C118	87-012-282-080	CAP, U 4700P-50		C412	87-012-271-080		CAP, U 560P-50
C119	87-016-491-080	C-CAP,S 0.22-16 FZ		C413	87-012-197-080		C-CAP,U 150P-50 CH
C120	87-010-787-080	CAP, U 0.022-25		C414	87-012-197-080		C-CAP,U 150P-50 CH
C121	87-012-286-080	CAP, U 0.01-25		C415	87-012-286-080		CAP, U 0.01-25
C122	87-010-829-080	CAP, U 0.047-16		C416	87-012-286-080		CAP, U 0.01-25
C123	87-012-286-080	CAP, U 0.01-25		C417	87-012-268-080		C-CAP,U 330P-50 B
C124	87-010-662-080	C-CAP,E 22-6.3		C418	87-012-268-080		C-CAP,U 330P-50 B
C125	87-010-662-080	C-CAP,E 22-6.3		C423	87-012-286-080		CAP, U 0.01-25
C126	87-010-831-080	C-CAP,U,0.1-16F		C424	87-012-286-080		CAP, U 0.01-25
C201	87-010-831-080	C-CAP,U,0.1-16F		C429	87-012-286-080		CAP, U 0.01-25
C202	87-010-831-080	C-CAP,U,0.1-16F		C430	87-012-286-080		CAP, U 0.01-25
C203	87-010-785-080	C-CAP,U0.015-25BK		C431	87-010-779-080		C-CAP,E 100-6.3
C204	87-016-461-080	C-CAP,S 0.47-16F		C434	87-010-831-080		C-CAP,U,0.1-16F
C205	87-010-831-080	C-CAP,U,0.1-16F		C506	87-010-831-080		C-CAP,U,0.1-16F
C206	87-012-270-080	CAP, U 470P-50		C507	87-010-661-080		C-CAP,E 10-16
C207	87-016-461-080	C-CAP,S 0.47-16F		C508	87-010-831-080		C-CAP,U,0.1-16F
C208	87-012-286-080	CAP, U 0.01-25		C509	87-010-662-080		C-CAP,E 22-6.3
C209	87-010-831-080	C-CAP,U,0.1-16F		C513	87-010-661-080		C-CAP,E 10-16
C210	87-012-176-080	CAP 15P		C514	87-010-661-080		C-CAP,E 10-16
C211	87-012-176-080	CAP 15P		C515	87-012-337-080		C-CAP,U 56P-50 CH
C212	87-012-195-080	C-CAP,U 100P-50CH		C516	87-012-337-080		C-CAP,U 56P-50 CH
C213	87-010-662-080	C-CAP,E 22-6.3		C517	87-012-278-080		C-CAP,U 2200P-50 B
C214	87-012-274-080	CHIP CAP,U 1000P-50B		C518	87-012-278-080		C-CAP,U 2200P-50 B
C217	87-012-188-080	C-CAP,U 47P-50 CH		C519	87-010-831-080		C-CAP,U,0.1-16F
C218	87-012-172-080	CAPACITOR CHIP U 10P CH		C520	87-010-661-080		C-CAP,E 10-16
				C521	87-010-831-080		C-CAP,U,0.1-16F
				C522	87-010-661-080		C-CAP,E 10-16
				C523	87-010-662-080		C-CAP,E 22-6.3
				C524	87-010-662-080		C-CAP,E 22-6.3
				C525	87-012-274-080		CHIP CAP,U 1000P-50B
				C526	87-012-274-080		CHIP CAP,U 1000P-50B
				C527	87-010-661-080		C-CAP,E 10-16

ELECTRICAL MAIN PARTS LIST-2/2

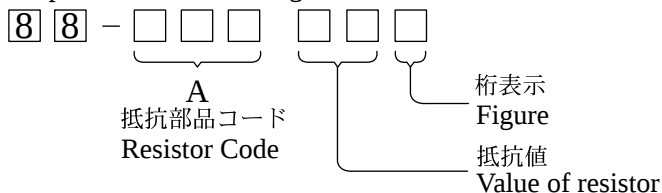
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C528	87-010-661-080		C-CAP,E 10-16	L505	87-005-774-080		C-COIL,4BLH
C530	87-010-831-080		C-CAP,U,0.1-16F	L611	87-A50-163-080		C-COIL,ZBFS5101-PT
C600	87-010-662-080		C-CAP,E 22-6.3	L612	87-005-512-080		C-COIL,BLM21A05
C601	87-010-779-080		C-CAP,E 100-6.3	L614	87-A50-163-080		C-COIL,ZBFS5101-PT
C602	87-010-779-080		C-CAP,E 100-6.3	L615	87-A90-034-080		C-FLTR,EMI BLM41P750
C603	87-010-662-080		C-CAP,E 22-6.3	L616	87-A50-163-080		C-COIL,ZBFS5101-PT
C604	87-010-779-080		C-CAP,E 100-6.3	M1	87-A91-490-110		MOT,BCD3B04
C607	87-010-831-080		C-CAP,U,0.1-16F	M2	87-A92-044-010		MOT,BCD3B94
C608	87-010-831-080		C-CAP,U,0.1-16F	M3	87-A92-043-010		MOT,BCD3B08
CN100	87-A61-347-080		C-CONN,21P H XF2H-2115-1	OWH	87-A92-035-010		HEAD,OWH RF331-74B
CN300	87-A60-518-080		C-CONN,8P H 6232	R423	87-025-564-080		C-RES,U M/F 47K D
CN600	87-A60-519-080		C-CONN,14P H 6232	R424	87-025-564-080		C-RES,U M/F 47K D
FB501	87-A90-828-080		C-F-BEAD, BK1608LM182	R425	87-022-583-080		C-RES,U M/F 12K D
L100	87-A50-117-080		C-COIL,10UHLQH3C	R426	87-022-583-080		C-RES,U M/F 12K D
L101	87-A50-012-080		C-COIL,100UH LQH3C	S301	87-A90-788-080		C-SW,MICRO SPPB64
L102	87-A50-117-080		C-COIL,10UHLQH3C	S302	87-A90-788-080		C-SW,MICRO SPPB64
L103	87-A50-117-080		C-COIL,10UHLQH3C	S303	87-A90-788-080		C-SW,MICRO SPPB64
L201	87-A50-117-080		C-COIL,10UHLQH3C	S304	87-A91-445-080		C-SW,PUSH MPU20420MLB1
L202	87-A50-117-080		C-COIL,10UHLQH3C	X200	87-A70-270-080		C-VIB,XTAL 45.1584MHZ SMD-49
L203	87-A50-116-080		C-COIL,4.7UHLQH3C	X301	87-A70-100-080		C-VIB,CER 12.0MHZ PBRC-BR-A
L204	87-003-367-080		C-COIL,U 2.2UHK				
L301	87-A50-117-080		C-COIL,10UHLQH3C				
L501	87-A50-116-080		C-COIL,4.7UHLQH3C				
L503	87-A50-116-080		C-COIL,4.7UHLQH3C				
L504	87-005-774-080		C-COIL,4BLH				

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

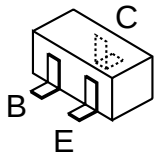
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION-1/1



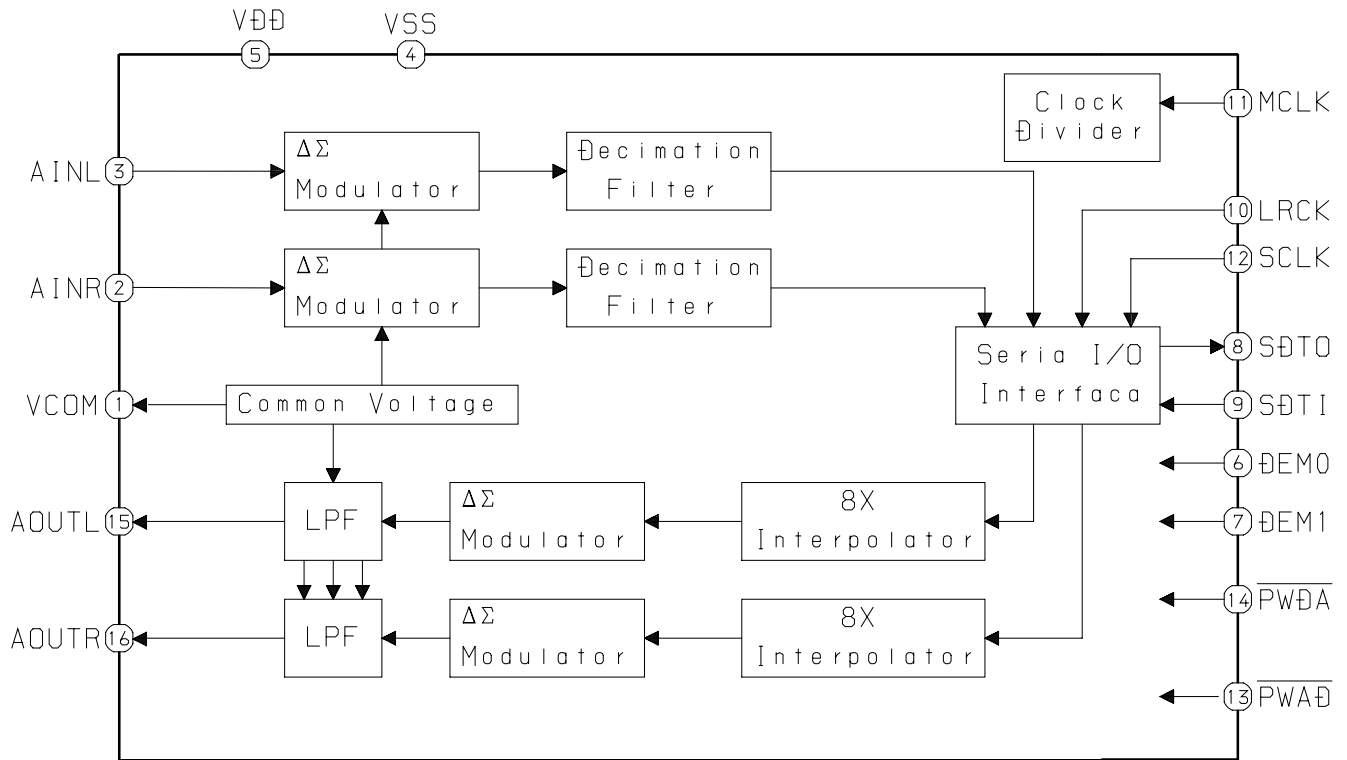
2SA1588

2SC4116

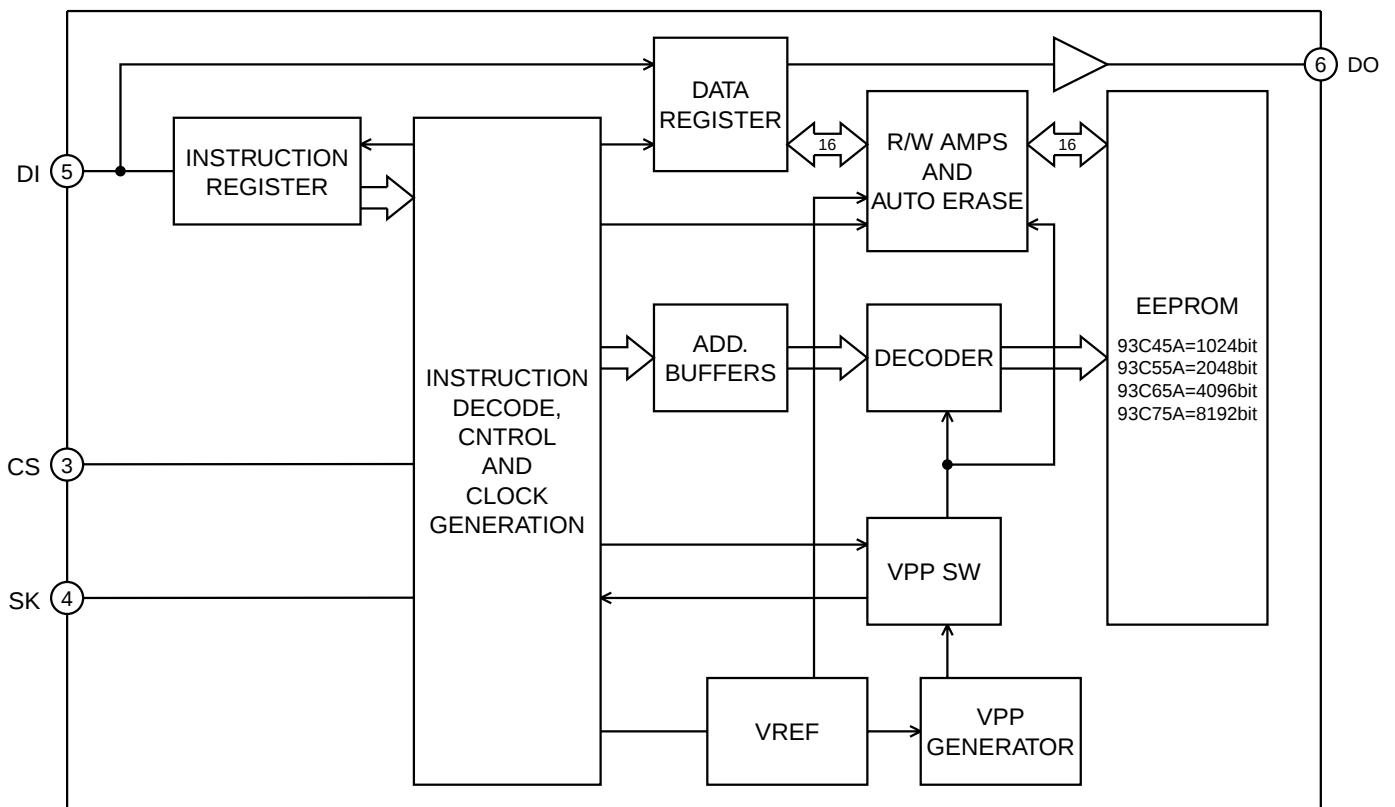
RN1305

RN2305

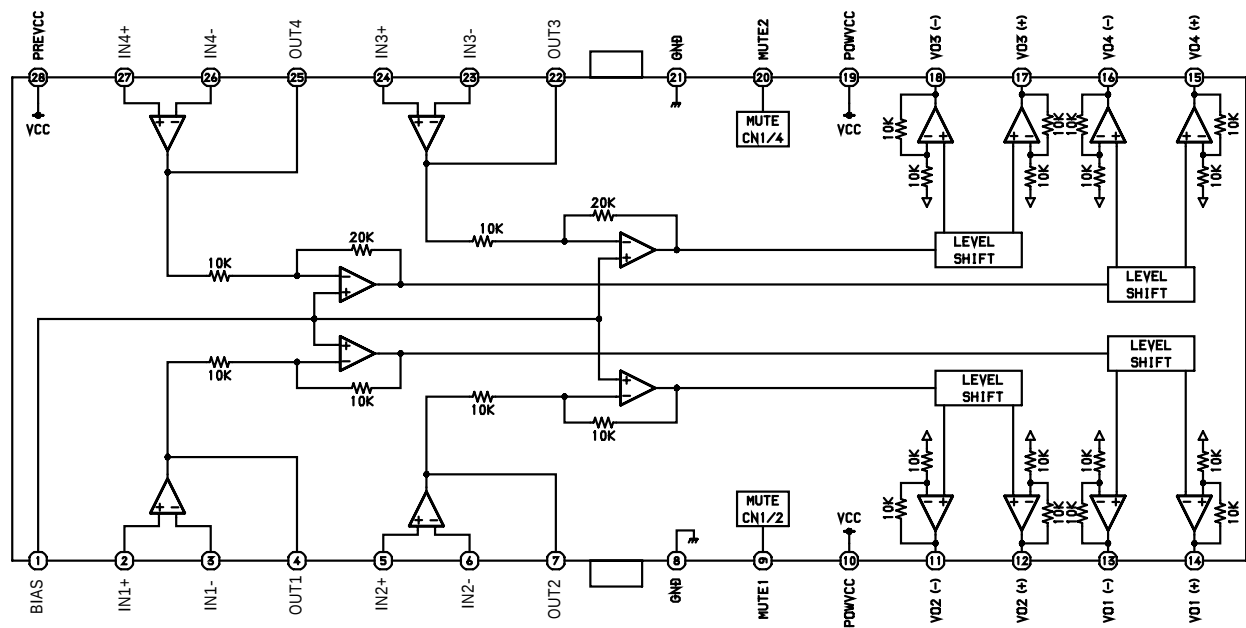
IC BLOCK DIAGRAM-1/2 IC, AK4551



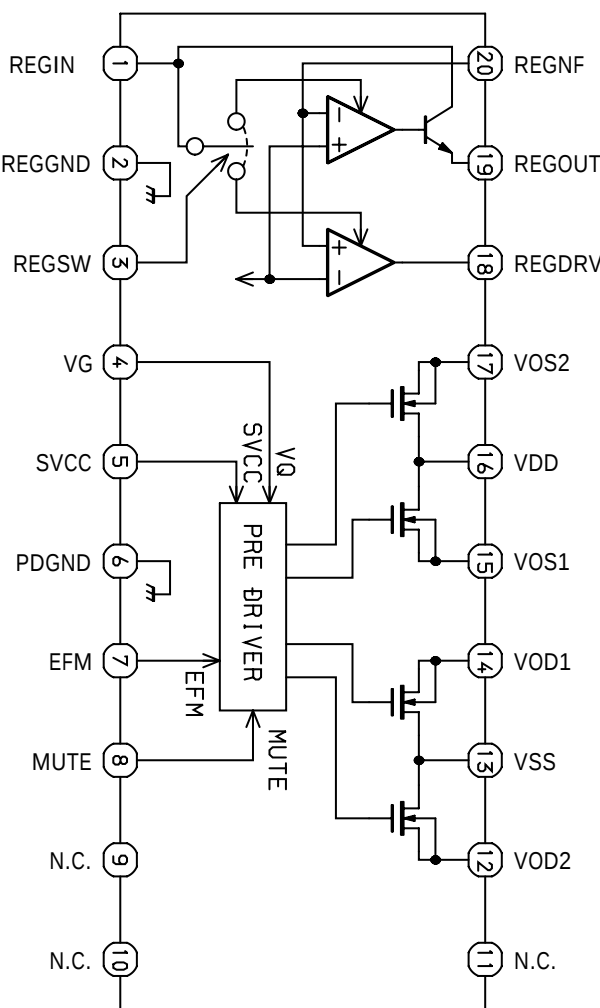
IC, AK93C45AF



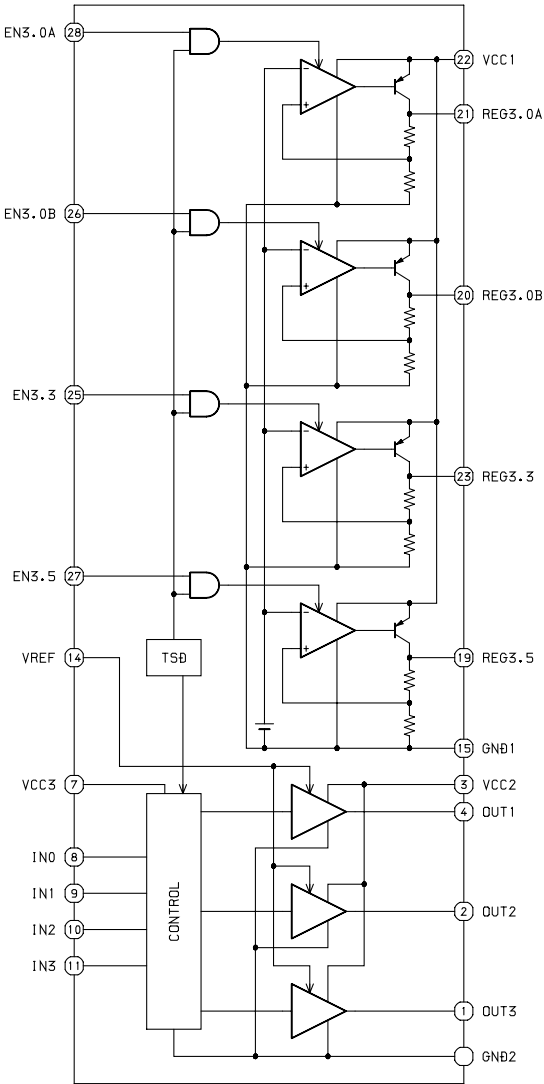
IC BLOCK DIAGRAM-2/2
IC, BA5970FP



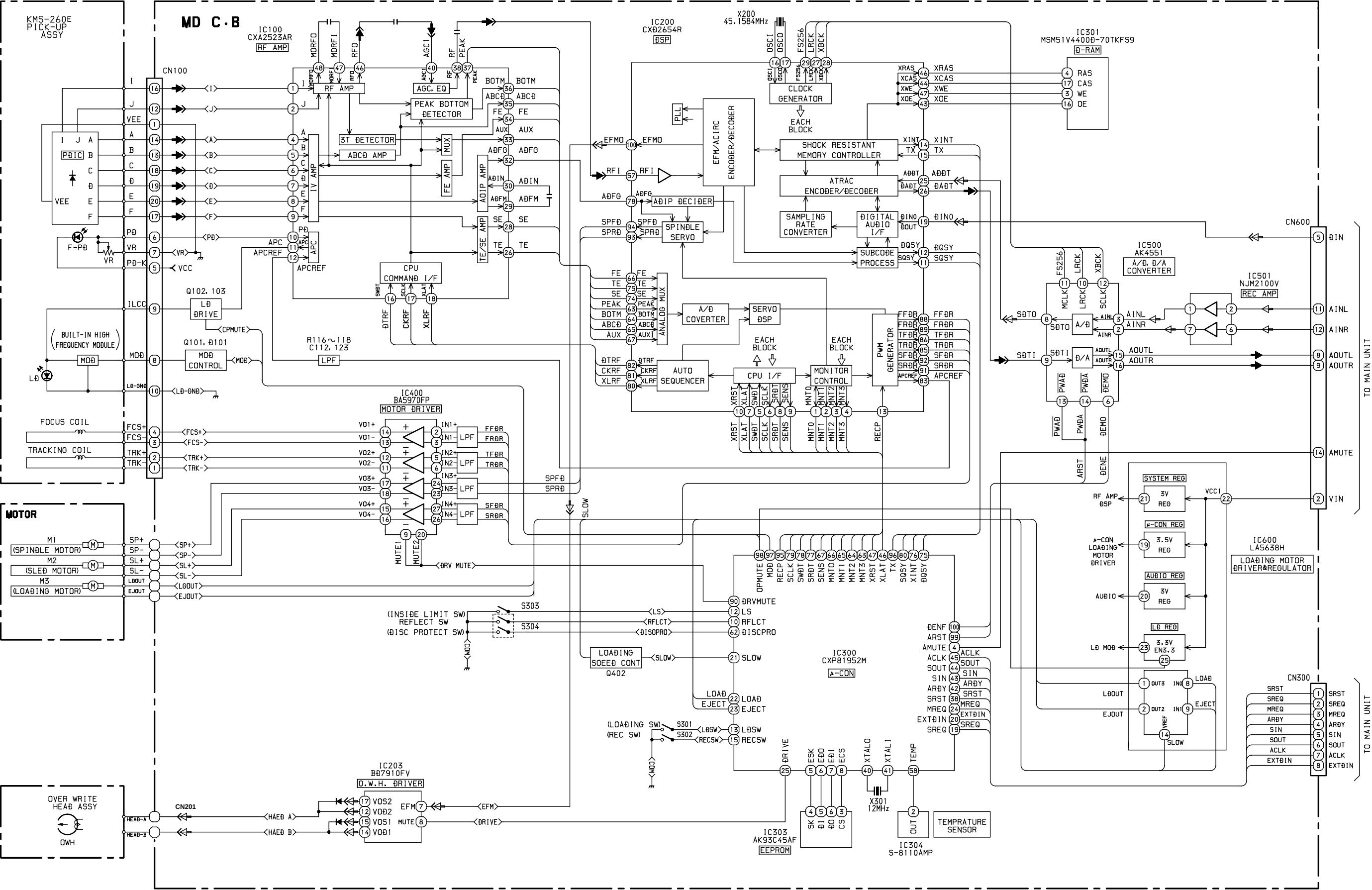
IC, BD7910FV



IC, LA5638H

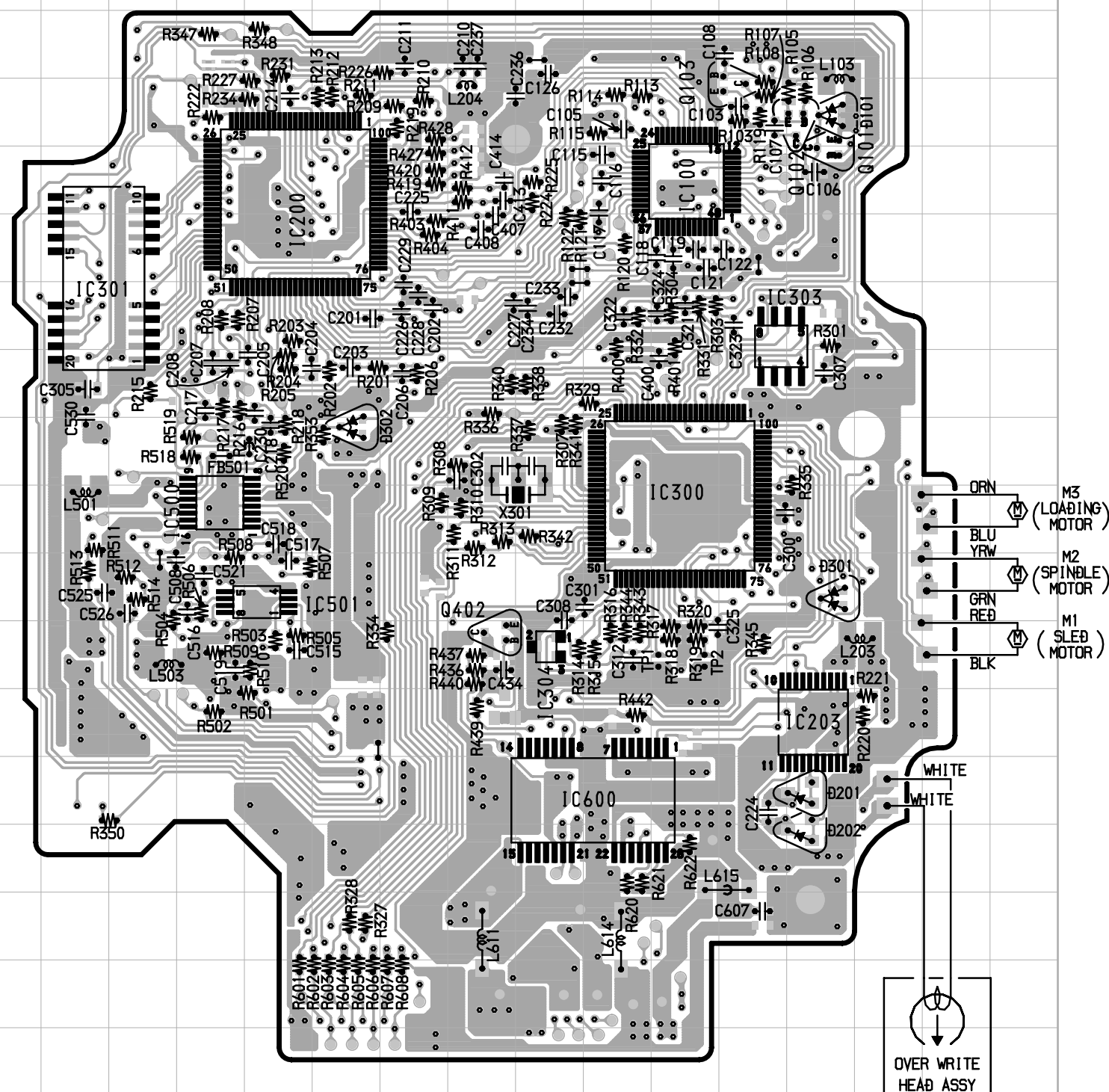


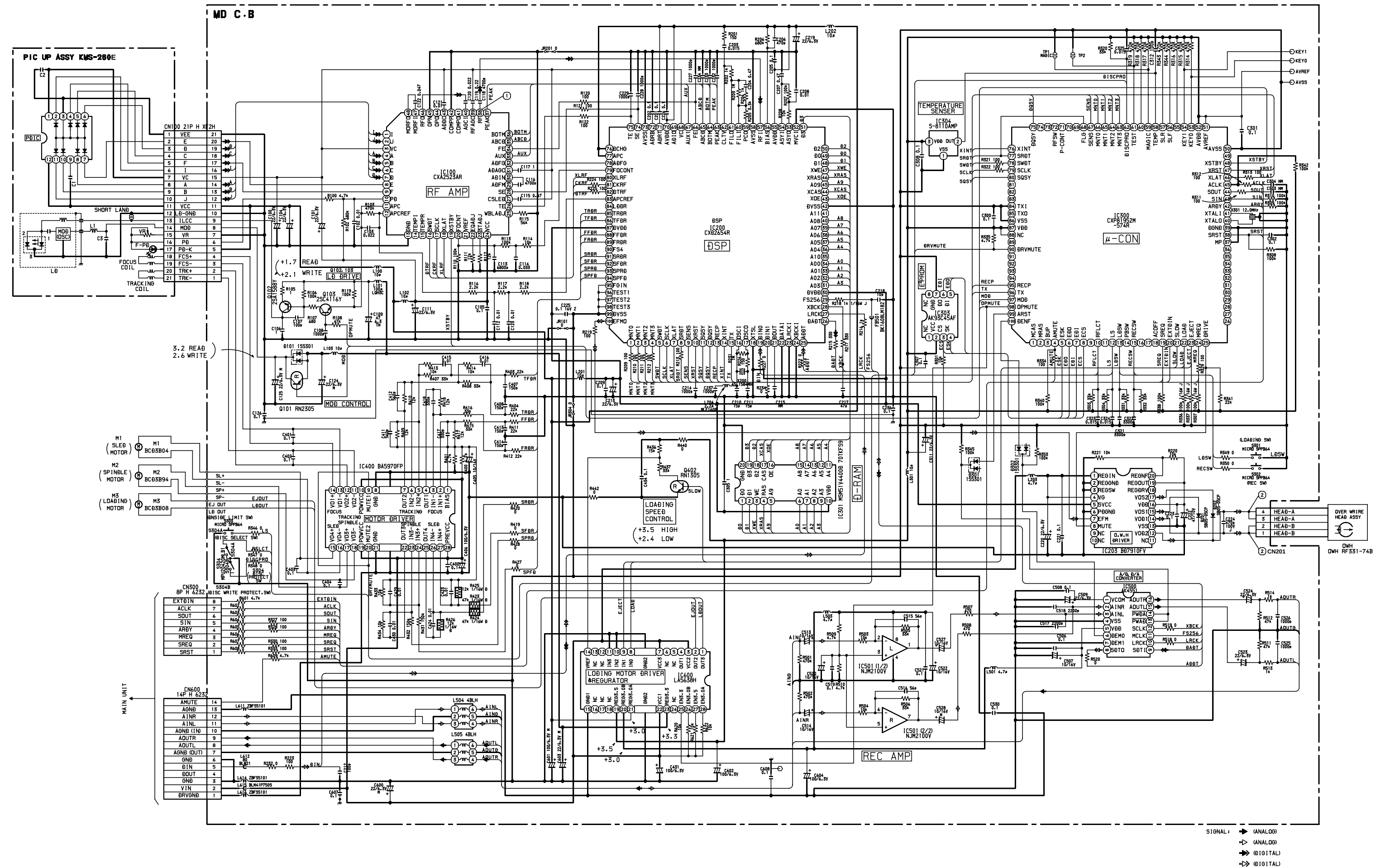
BLOCK DIAGRAM-1/1



SIGNAL → PB (ANALOG)
⇒ REC (ANALOG)
→ PB (DIGITAL)
⇒ REC (DIGITAL)

MD C.B (CONDUCTOR SIDE)





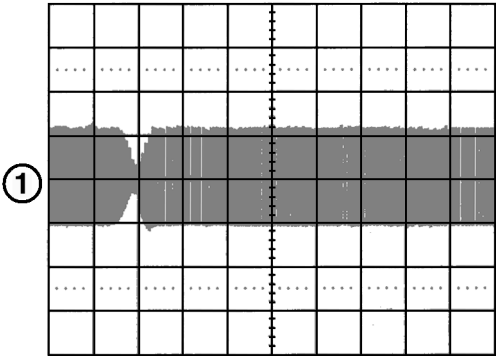
WAVE FORM-1/1

1

IC100 Pin 38 (RF)

VOLT/DIV: 0.5V

TIME/DIV: 1mS

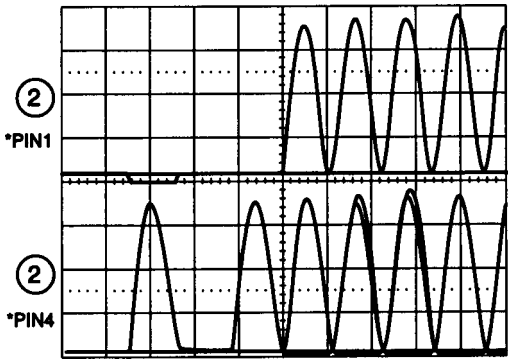


2

CN201 Pin 1 (HEAD-B)
CN201 Pin 4 (HEAD-A)

VOLT/DIV: 10V

TIME/DIV: 0.2μS



IC DESCRIPTION-1/3 (CXA2523AR)-1/2

Pin No.	Pin Name	I/O	Description
1	I	I	Input “I” RF signal converted to I-V.
2	J	I	Input “J” RF signal converted to I-V.
3	VC	O	Output voltage for VCC/2.
4	A	I	Input current for main beam servo signal A.
5	B	I	Input current for main beam servo signal B.
6	C	I	Input current for main beam servo signal C.
7	D	I	Input current for main beam servo signal D.
8	E	I	Input current for side beam servo signal E.
9	F	I	Input current for side beam servo signal F.
10	PD	I	Input beam spectrum monitor signal.
11	APC	O	Output laser APC.
12	APCREF	I	Input reference voltage for laser power setting.
13	GND	—	GND.
14	TEMPI	I	Not used.
15	TEMPR	I	
16	SWDT	I	Input micro-processor serial interface data.
17	SCLK	I	Input micro-processor serial interface shift clock.
18	XLAT	I	Input micro-processor serial interface latch. “L”: Latch.
19	XSTBY	I	Standby setting pin. “H”: Normal mode, “L”: Standby.
20	FOCNT	I	Internal current setting pin.
21	VREF	O	Not used.
22	EQADJ	I/O	EQ central frequency setting pin.
23	3TADJ	I/O	BPF3T central frequency setting pin.
24	VCC	—	Power supply pin.
25	WBLADJ	I/O	BPF22 central frequency setting pin.
26	TE	O	Output tracking error signal.
27	CSLED	—	LPF capacitor connection pin for SLED error signal.
28	SE	O	Output SLED error signal.
29	ADFM	O	Output ADIP FM signal.
30	ADIN	I	Input ADIP signal comparator.
31	ADAGC	—	ADIPAGC capacitor connection pin.
32	ADFG	O	Output ADIP2 binary data signal.
33	AUX	O	I3 output temperature signal. Switched by serial command.
34	FE	O	Output focus error signal.
35	ABCD	O	Output beam spectrum signal for main beam servo detector.
36	BOTM	O	Output bottom hold signal for RF/ABCD.
37	PEAK	O	Output peak hold signal for RF/ABCD.
38	RF	O	RF equalizer output pin.
39	RFAGC	—	RFAGC capacitor connection pin.
40	AGCI	I	RFAGC input pin.
41	COMPO	O	Not used.

IC DESCRIPTION-1/3 (CXA2523AR)-2/2

Pin No.	Pin Name	I/O	Description
42	COMPP	I	User comparator non-inverted input pin.
43	ADDC	I/O	Capacitor connection pin for ADIP amplifier on return circuit.
44	OPO	O	Not used.
45	OPN	I	Non-inverted input pin for user operational amplifier.
46	RFO	O	RF amplifier output pin. Check point for eye pattern.
47	MORFI	I	Input pin where Groove RF signal is AC coupled.
48	MORFO	O	Output pin for Groove RF signal.

IC DESCRIPTION-2/3 (CXD2654R)-1/3

Pin No.	Pin Name	I/O	Description
1	MNT0	O	Monitor output terminal.
2	MNT1	O	
3	MNT2	O	
4	MNT3	O	
5	SWDT	I	Microprocessor serial interface data input.
6	SCLK	I	Microprocessor serial interface shift clock input.
7	XLAT	I	Microprocessor serial interface latch input. Latched at falling down edge.
8	SRDT	O	Microprocessor serial interface data output.
9	SENS	O	The terminal which outputs internal status in accordance with the address of the microprocessor serial interface.
10	XRST	I	Reset input. L: reset.
11	SQSY	O	Disc sub code Q sync/ADIP sync output.
12	DQSY	O	Subcode Q sync output of U-bit CD or MD format when the DIGITAL IN source is CD or MD.
13	RECP	I	Laser power selection input. H: Recording power, L: Playback power.
14	XINT	O	Interrupt request output terminal. L is output when interrupt status is generated.
15	TX	I	Record data output enable signal input terminal. H: enable.
16	OSCI	I	Crystal oscillator circuit input terminal.
17	OSCO	O	Crystal oscillator circuit output terminal. (Inverted output of OSCI).
18	XTSL	I	OSCI terminal input frequency selection. H: 512 Fs (22.5792 MHz), L: 1024 Fs (45.1584 MHz).
19	DIN0	I	Digital audio interface signal input 1.
20	DIN1	I	Digital audio interface signal input 2.
21	DOUT	O	Digital audio interface signal output. (Not connected)
22	DATAI	I	Test pin. Connect to GND.
23	LRCKI	I	
24	XBCKI	I	
25	ADDT	I	Data input from A/D converter.
26	DADT	O	REC monitor output/decoded audio data output.
27	LRCK	O	LR clock (44.1kHz) output to the external audio block.
28	XBCK	O	Bit clock (2.8224MHz) output to the external audio block.
29	FS256	O	256Fs output.
30	DVDD	—	Digital power supply.
31	A03	O	Eternal DRAM address output.
32	A02	O	
33	A01	O	
34	A00	O	
35	A10	O	Eternal DRAM address output. (Not connected)
36	A04	O	Eternal DRAM address output.
37	A05	O	
38	A06	O	
39	A07	O	
40	A08	O	

IC DESCRIPTION-2/3 (CXD2654R)-2/3

Pin No.	Pin Name	I/O	Description
41	A11	O	External DRAM address output. (Not connected)
42	DVSS	—	Digital ground.
43	XOE	O	External DRAM output enable.
44	XCAS	O	External DRAM $\overline{\text{CAS}}$ output.
45	A09	O	External DRAM address output.
46	XRAS	O	External DRAM $\overline{\text{RAS}}$ output.
47	XWE	O	External DRAM write enable.
48	D1	I/O	External DRAM data bus.
49	D0	I/O	
50	D2	I/O	
51	D3	I/O	
52	MVCI	I	External VCO (784Fs) clock input.
53	ASYO	O	Playback EFM full- swing output. (Low: VSS; high: VDD)
54	ASYI	I	Playback EFM comparator slice voltage input.
55	AVDD	—	Analog power supply.
56	BIAS	I	Playback EFM comparator bias current input.
57	RFI	I	Playback EFM RF signal input.
58	AVSS	—	Analog ground.
59	PCO	O	Phase comparison output for master PLL of playback digital PLL and recording EFM PLL.
60	FILI	I	Filter input for master PLL of playback digital PLL and recording EFM PLL.
61	FILO	O	Filter output for master PLL of playback digital PLL and recording EFM PLL.
62	CLTV	I	Internal VCO control voltage input for master PLL of playback digital PLL and recording EFM PLL.
63	PEAK	I	Peak hold signal input for quantity of light.
64	BOTM	I	Bottom hold signal input for quantity of light.
65	ABCD	I	Signal input for quantity of light.
66	FE	I	Focus error signal input.
67	AUX1	I	Auxiliary input 1.
68	VC	I	Center voltage input.
69	ADIO	O	Monitor output for A/D converter input signal. (Not connected)
70	AVDD	—	Analog power supply.
71	ADRT	I	Voltage input for the upper limit of the A/D converter operating range.
72	ADRB	I	Voltage input for the lower limit of the A/D converter operating range.
73	AVSS	—	Analog ground.
74	SE	I	Sled error signal input.
75	TE	I	Tracking error signal input.
76	DCHG	I	Connected to the low impedance power supply.
77	APC	I	Error signal input to the laser digital APC.
78	ADFG	I	ADIP2 binary-converted FM signal (22.05±1 kHz) input.
79	F0CNT	O	Current source setting output terminal to CXA2523.
80	XLRF	O	Latch output for CXA2523 control. Latched at rise-up.

IC DESCRIPTION-2/3 (CXD2654R)-3/3

Pin No.	Pin Name	I/O	Description
81	CKRF	O	Shift clock output for CXA2523 control.
82	DTRF	O	Data output for CXA2523 control.
83	APCREF	O	Reference PWM output to laser APC.
84	LDDR	O	Not used.
85	TRDR	O	Tracking servo drive PWM output. (-).
86	TFDR	O	Tracking servo drive PWM output. (+).
87	DVDD	—	Digital power supply.
88	FFDR	O	Focus servo drive PWM output. (+).
89	FRDR	O	Focus servo drive PWM output. (-).
90	FS4	O	Not used.
91	SRDR	O	Sled servo drive PWM output. (-).
92	SFDR	O	Sled servo drive PWM output. (+).
93	SPRD	O	Spindle servo drive PWM output. (PWM (-) or negative polarity).
94	SPFD	O	Spindle servo drive PWM output. (PWM (+) or PWM absolute value).
95	FGIN	I	FG input to spindle CAV servo.
96	TEST1	I	Test pin. Connected to GND.
97	TEST2	I	
98	TEST3	I	
99	DVSS	—	Digital GND.
100	EFMO	O	Low signal during playback. EFM (encode data) output: during recording.

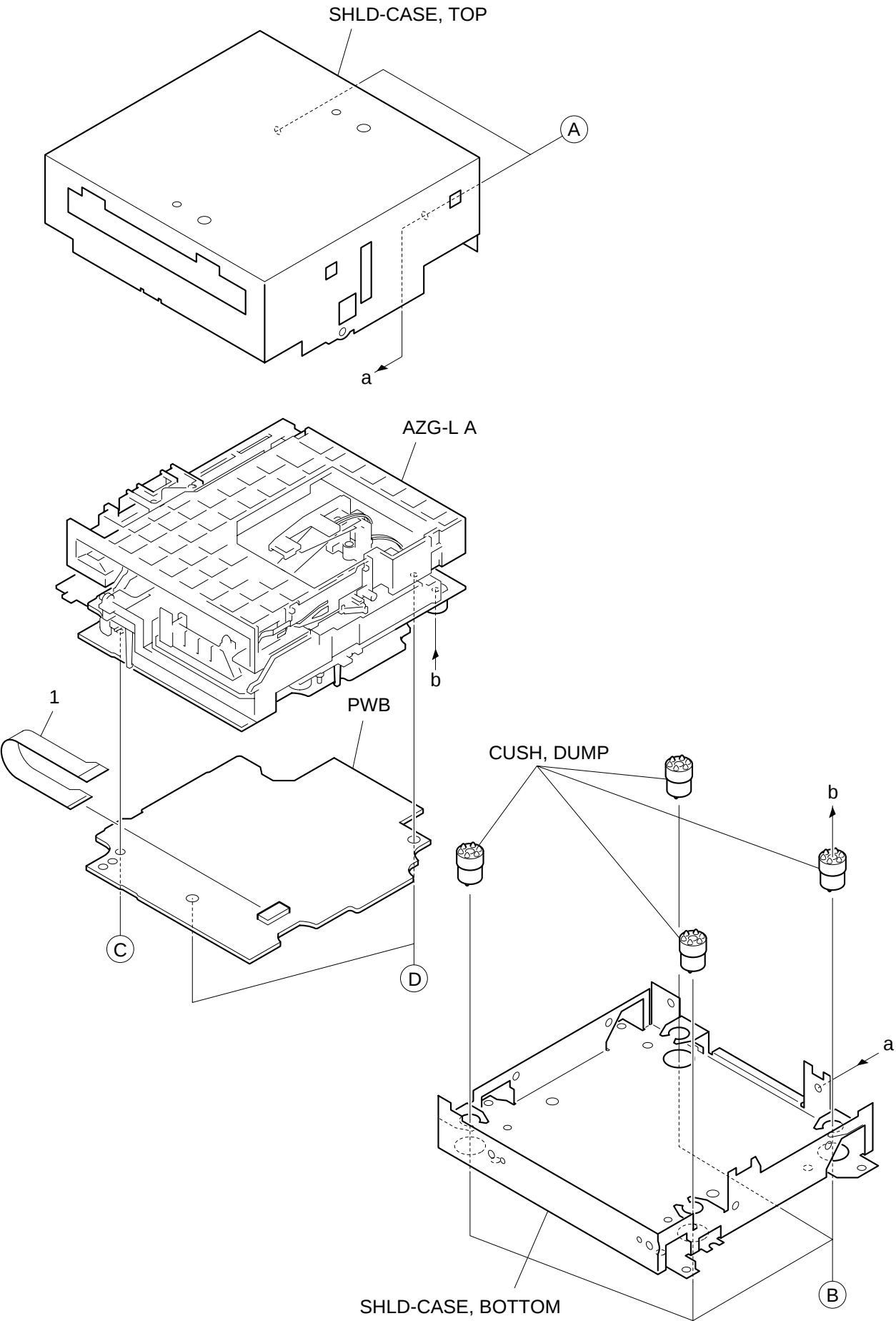
IC DESCRIPTION-3/3 (CXP81952M-574R)-1/2

Pin No.	Pin Name	I/O	Description
1	MCAS	—	Not used.
2	MRAS	—	
3	BUP	—	
4	AMUTE	O	Audio mute signal output.
5	ESK	O	Serial clock output for EEPROM interface.
6	EDO	O	Serial data output for EEPROM interface.
7	EDI	I	Serial data input for EEPROM interface.
8	ECS	O	EEPROM chip select signal output.
9	NC	—	Not used.
10	RFLCT	I	Input from disc reflectance detection switch.
11	NC	—	Not used.
12	LS	I	Input signal from pickup inner circumference detect switch.
13	LDSW	I	Input signal from loading mechanism EJECT position detect switch.
14	PBSW	—	Not used.
15	RECSW	I	Input signal from loading mechanism REC position detect switch.
16, 17	NC	—	Not used.
18	ACOFF	—	
19	SREQ	I	System control send request signal input for system control interface.
20	EXTDIN	O	External DIGITAL-IN permission signal output.
21	SLOW	O	Speed control signal output to loading mechanism.
22	LOAD	O	Movement direction control signal output-1 to loading mechanism.
23	EJECT	O	Movement direction control signal output-2 to loading mechanism.
24	MREQ	O	MD controller send request output signal for system control interface.
25	DRIVE	O	EFM driver ON/OFF signal output.
26-36	NC	—	Not used.
37	MP	—	Connected to VSS.
38	SRST	I	MD controller reset signal input.
39	DGND	—	Connected to VSS.
40	XTALO	O	External crystal connection terminal-1 for system clock oscillation.
41	XTALI	I	External crystal connection terminal-2 for system clock oscillation.
42	ARDY	I	READY input signal for system control interface.
43	SIN	I	Serial data input for system control interface.
44	SOUT	O	Serial data output for system control interface.
45	ACLK	O	Serial clock output for system control interface.
46	XLAT	O	Latch signal output for CXD2662 interface.
47	XRST	O	CXD2662 reset signal output.
48	XSTBY	O	CXA2523 standby signal output.
49	NC	O	Not used.
50	AVSS	—	Connected to VSS.
51	AVREF	—	Connected to VDD.
52	AVDD	—	

IC DESCRIPTION-3/3 (CXP81952M-574R)-2/2

Pin No.	Pin Name	I/O	Description
53	KEY0	I	Connected to VDD.
54	KEY1	I	
55	NC	I	
56	SLF	I	
57	SLR	I	
58	TEMP	I	Temperature sensor. Connected to S-8110 AMP.
59	MAGIC	I	Connected to VDD.
60	NC	I	
61	TEST	I	
62	DISCPRO	I	Disc write protection switch input.
63-66	MNT3-0	I	CXD2662 monitor signal input-1-4.
67	SENS	I	CXD2662 SENS signal input.
68	FLG	O	Monitoring signal of flag contained in SRDT of CXD2662 interface.
69	NC	O	Not used.
70	NC	O	
71	P-CONT	O	
72	RFSW	O	
73	NC	O	
74	NC	O	
75	DQSY	I	DIGITAL-IN SUB-Q sync input.
76	XINT	I	CXD2662 status sync input.
77	SRDT	I	Serial data input for CXD2662 interface.
78	SWDT	O	Serial data output for CXD2662 interface.
79	SCLK	O	Serial clock output for CXD2662 interface.
80	SQSY	I	SUB-Q, ADIP sync input.
81-83	NC	—	Not used.
84	TXI	I	Connected to VSS.
85	TXO	O	Open.
86	VSS	—	Connected to VSS.
87, 88	VDD	—	Connected to VDD.
89	NC	—	Not used.
90	DRVMUTE	O	BA5970FP mute signal output.
91-94	NC	—	Not used.
95	RECP	O	Laser power select signal output.
96	TX	O	Record data output enable signal.
97	MOD	O	High frequency superimpose circuit ON/OFF signal output.
98	OPMUTE	O	Laser mute signal output.
99	ARST	O	AK4519 reset signal output.
100	DENF	O	De-emphasis ON/OFF signal output.

MECHANICAL EXPLODED VIEW-1/2

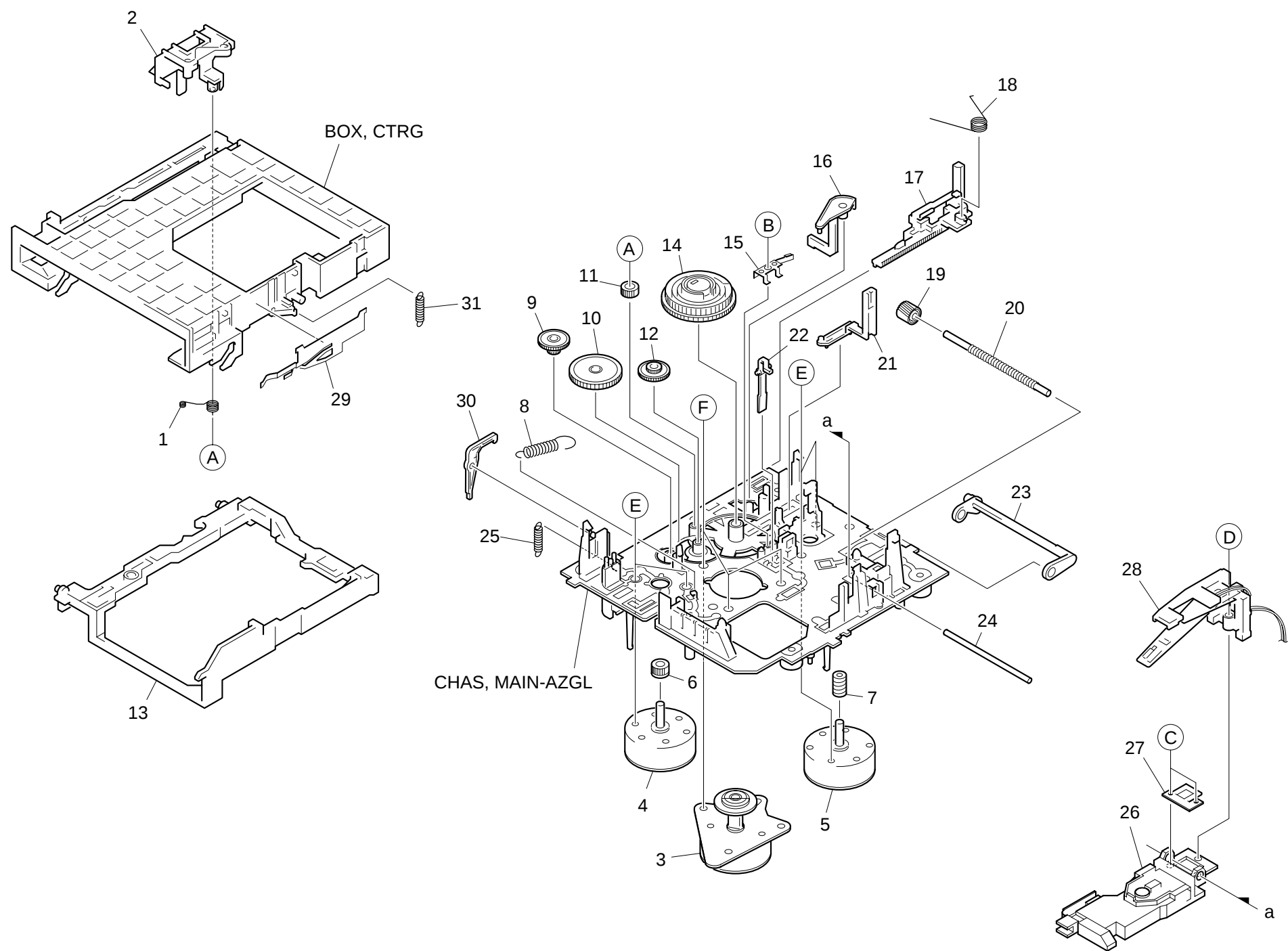


MECHANICAL PARTS LIST-1/2

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-ZGW-611-010		PWB,FLEX 21P AZG-W
A	87-067-020-010		SCREW, VTT+3-4
B	8A-ZGW-205-010		S-SCREW,DUMP
C	87-751-035-410		VT2+2-6W/0 SLOT
D	8A-ZGW-204-010		S-SCREW,VTT+2-15 SR

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		



MECHANICAL PARTS LIST-2/2 (AZG-L A)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-ZGL-226-010	SPR-T,CTRG	
2	8A-ZGL-207-010	SLIDER,CTRG	
3	87-A92-044-010	MOT,BCD3B94	
4	87-A92-043-010	MOT,BCD3B08	
5	87-A91-490-110	MOT,BCD3B04	
6	8A-ZGL-209-010	GEAR,PINION	
7	8Z-ZGD-205-010	GEAR,MOT	
8	8A-ZGL-225-010	SPR-E,SP	
9	8A-ZGL-211-010	GEAR,2	
10	8A-ZGL-210-010	GEAR,1	
11	8A-ZGL-213-110	GEAR,RACK PINION	
13	8A-ZGL-205-010	SLIDER,MAIN	
12	8A-ZGL-212-010	GEAR,3	
14	8A-ZGL-214-010	GEAR,CAM	
15	8A-ZGL-221-110	SPR-P,LEAD	
16	8A-ZGL-217-110	LEVER,SW-CAM	
17	8A-ZGL-206-010	SLIDER,RACK	
18	8A-ZGL-223-010	SPR-T,RACK	
19	8Z-ZGD-206-010	GEAR,LEAD	
20	8A-ZGL-222-010	SHAFT,LEAD	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
21	8A-ZGL-208-010	SLIDER,OWH	
22	8A-ZGL-218-110	LEVER,SW-PU	
23	8A-ZGL-215-010	LEVER,OWH	
24	87-ZG3-211-010	SHAFT,GUIDE	
25	8A-ZGL-224-010	SPR-E,BOX	
26	87-A92-225-010	PICKUP,KMS-260E	
27	87-ZG3-216-010	SPR-P,RACK	
28	87-A92-035-010	HEAD,OWH RF331-74B	
29	8A-ZGL-220-010	SPR-P,SHUTTER	
30	8A-ZGL-216-110	LEVER,SW-LOAD	
A	8A-ZGL-227-010	S-SCREW,SPH	
B	8Z-ZGD-211-010	S-SCREW,VBT+1.7-5	
C	8Z-ZG5-220-010	S-SCREW,V+1.4-2	
D	87-B10-286-010	VW+1.7-5 W/O MFZN2C	
E	87-264-529-310	V 1.7-4 SCREWS	
F	8Z-ZGD-210-010	S-SCREW,+2-2.5	



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