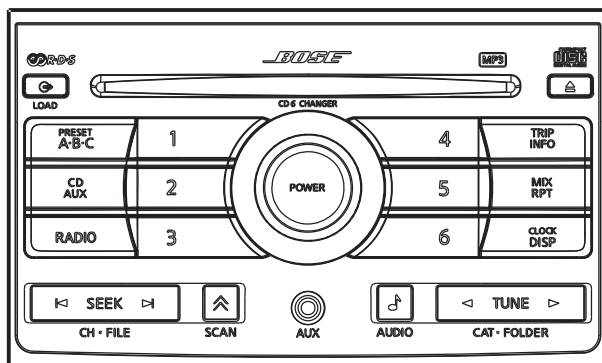


Service Manual



NISSAN Automobile Genuine
AM/FM In-dash 6CD Auto Changer
(BOSE Type)

Model **PN-2837D-B**
(Genuine No. 28185 ZE50B)

ORIGINAL SERVICE MANUAL

This additional service manual is designed to be used together with the original manual.

Original model	Manual No.
PN-2837D-A	298-6381-00

NOTES

- * This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
- * Windows Media™ and Windows® logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- * We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- * Specifications and design are subject to change without notice for further improvement.

EXPLODED VIEW / PARTS LIST

Please refer to page 7 of the original manual.

The following parts were changed from the original model.

NO.	PART NO.	DESCRIPTION	Q'TY
5	929-0731-83	CD-CHANG-MODULE	1
15	286-6469-23	SETPLATE	1

ELECTRICAL PARTS LIST

Main PWB(B1) section

Please refer to page 9 of the original manual.

The following part is changed from the original model.

REF No.	PART No.	DESCRIPTION
IC401	052-3209-20	M30843MW-A15GP

- * IC401: System control IC corresponding to the Spanish version.

Service Manual

6 Disc CD Changer Module

Model **929-0731-83**

EXPLANATION OF IC

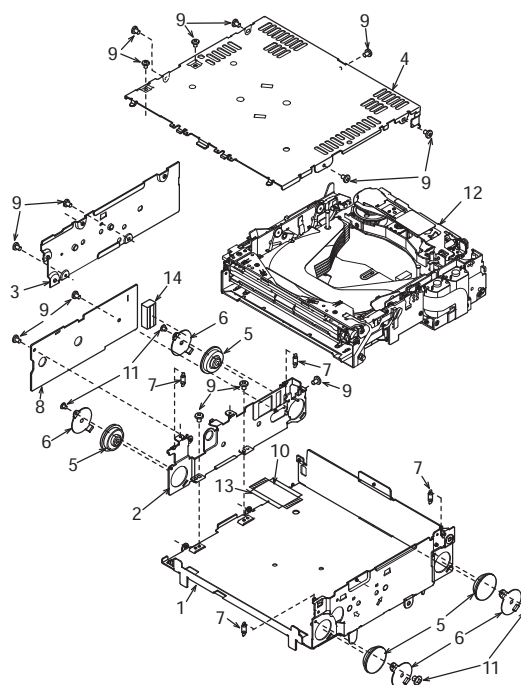
052-5062-05 MBM29DL800BA-90PFTN 8 M bit Flash Memory

Terminal Description

pin 1: Address 15	: IN: Address signal input.
pin 2: Address 14	: IN: Address signal input.
pin 3: Address 13	: IN: Address signal input.
pin 4: Address 12	: IN: Address signal input.
pin 5: Address 11	: IN: Address signal input.
pin 6: Address 10	: IN: Address signal input.
pin 7: Address 9	: IN: Address signal input.
pin 8: Address 8	: IN: Address signal input.
pin 9: NU	: - : Not in use.
pin 10: NU	: - : Not in use.
pin 11: WE	: IN: Write enable signal input.
pin 12: RESET	: IN: Reset signal input.
pin 13: NU	: - : Not in use.
pin 14: NU	: - : Not in use.
pin 15: Ready/Busy	: O: Ready/Busy flag output, H = Ready.
pin 16: Address 18	: IN: Address signal input.
pin 17: Address 17	: IN: Address signal input.
pin 18: Address 7	: IN: Address signal input.
pin 19: Address 6	: IN: Address signal input.
pin 20: Address 5	: IN: Address signal input.
pin 21: Address 4	: IN: Address signal input.
pin 22: Address 3	: IN: Address signal input.
pin 23: Address 2	: IN: Address signal input.
pin 24: Address 1	: IN: Address signal input.
pin 25: Address 0	: IN: Address signal input.
pin 26: CE	: IN: Chip enable signal input.
pin 27: VSS	: - : Negative supply voltage.
pin 28: OE	: IN: Output enable signal input.
pin 29: DQ 0	: I/O: The data input / output.
pin 30: DQ 8	: I/O: The data input / output.
pin 31: DQ 1	: I/O: The data input / output.
pin 32: DQ 9	: I/O: The data input / output.
pin 33: DQ 2	: I/O: The data input / output.
pin 34: DQ 10	: I/O: The data input / output.
pin 35: DQ 3	: I/O: The data input / output.
pin 36: DQ 11	: I/O: The data input / output.
pin 37: VCC	: - : Positive supply voltage.
pin 38: DQ 4	: I/O: The data input / output.
pin 39: DQ 12	: I/O: The data input / output.
pin 40: DQ 5	: I/O: The data input / output.
pin 41: DQ 13	: I/O: The data input / output.
pin 42: DQ 6	: I/O: The data input / output.
pin 43: DQ 14	: I/O: The data input / output.
pin 44: DQ 7	: I/O: The data input / output.
pin 45: DQ 15/A-1	: I/O: The data input/output, The Address signal input.
pin 46: VSS	: - : Negative supply voltage.
pin 47: BYTE	: IN: The data length selection (8bit/16bit).
pin 48: Address 16	: IN: Address signal input.

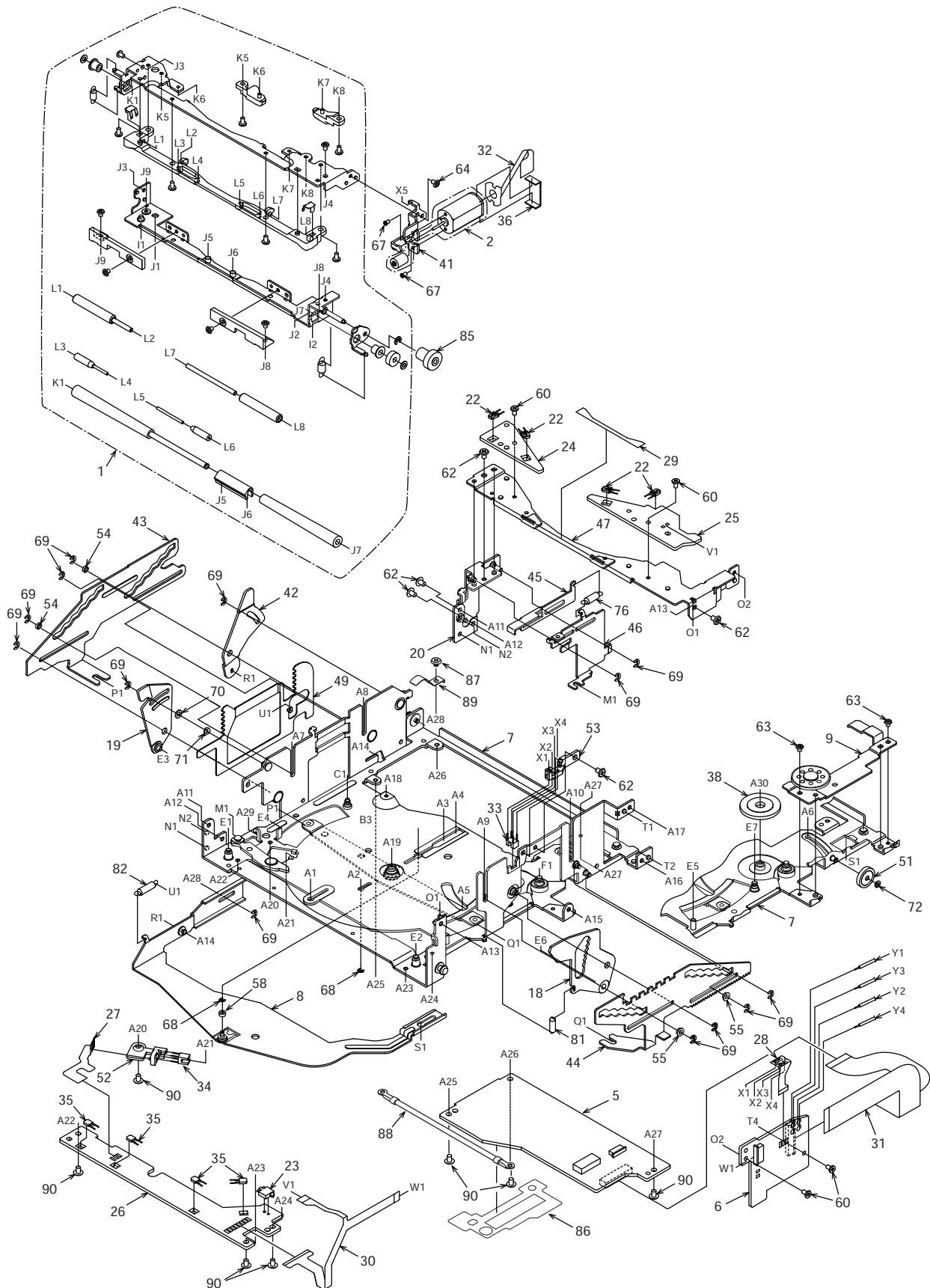
EXPLODED VIEW/PARTS LIST

CD changer module section



NO.	PART NO.	DESCRIPTION	Q'TY
1	311-1864-24	LOWER CASE	1
2	331-3896-22	PWB-HOLDER	1
3	305-0334-20	SIDE CASE	1
4	310-1741-28	UPPER CASE	1
5	629-0083-01	DAMPER	4
6	620-1086-20	DAMPER-H-PLT	4
7	750-3491-00	FL-SPRING	4
8	-----	CD PWB	1
9	716-1716-02	SCREW(M2 x 3)	14
10	HBS-561-100	FPC	1
11	716-3450-00	SCREW(M1.7 x 2)	4
12	-----	CD CHANGER MECHANISM	1
13	347-6619-00	INSULATOR	1
14	345-8748-00	GASKET	1

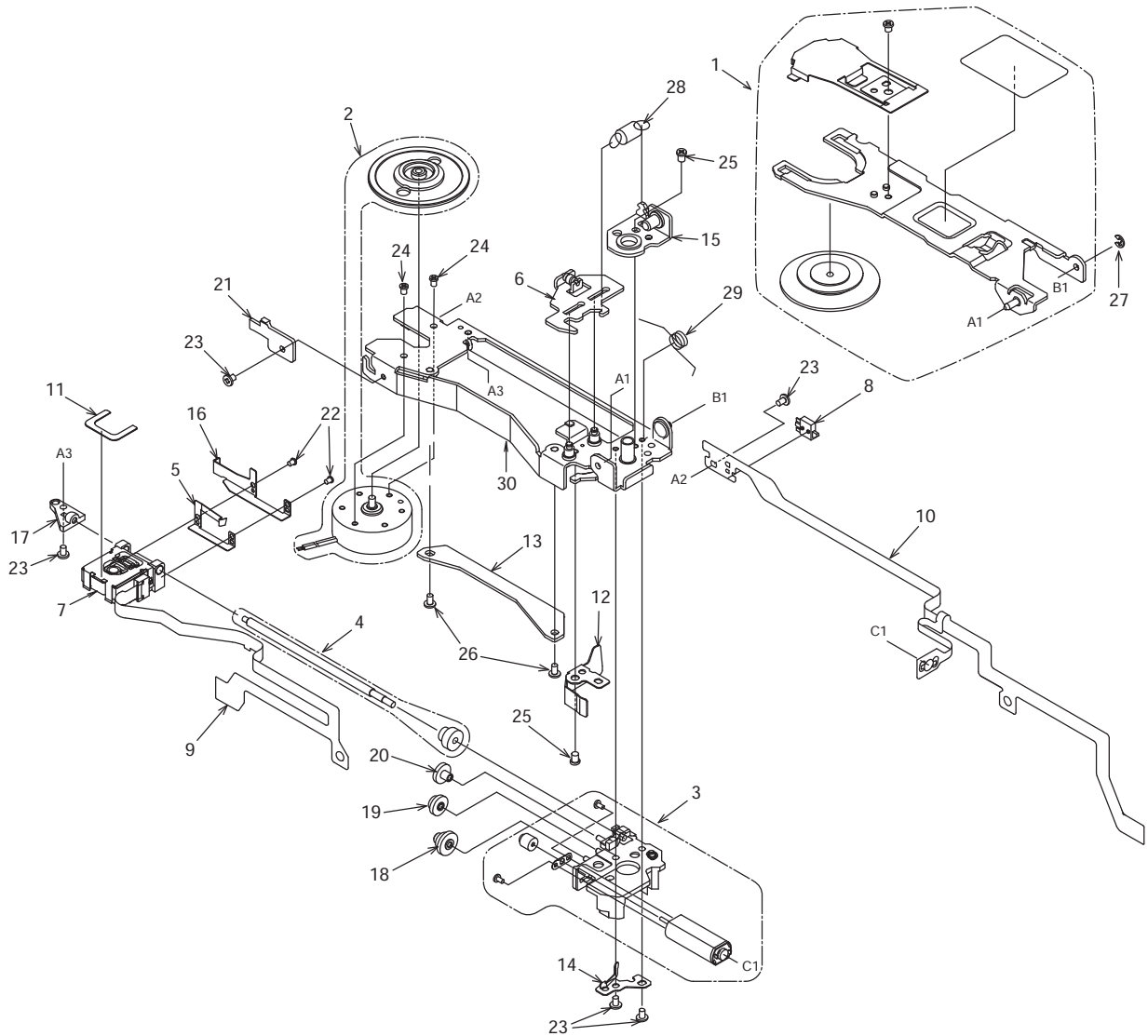
CD changer mechanism section



CD changer mechanism section

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-562-100	LOADING UNIT (WITHOUT MOTOR)	1	45	620-1071-21	EJECT ARM	1
2	SMA-186-100	LOADING MOTOR ASSY	1	46	620-1072-20	EJECT PLATE	1
3	HBS-530-100	MOTOR PLATE SUB ASSY	1	47	620-1577-20	FRONT PLATE	1
4	HBS-592-100	DRIVE UNIT	1	48	620-1083-20	FPC-PLATE	1
5	-----	DSP PWB	1	49	620-1090-20	GAP PLATE	1
6	-----	DRIVER PWB	1	50	620-1568-21	RATTLE PLATE-F	2
7	966-1751-22	CHASSIS ASSY	1	51	621-0640-20	V-GEAR-G	1
8	966-0600-23	LOCK-P-RE-ASSY	1	52	621-0641-21	PI-HOLDER-M	1
9	966-0601-21	M-GEAR-P-ASSY	1	53	621-0656-21	PI-HOLDER-V	1
10	966-0602-26	DR-LINK-ASSY	1	54	622-1622-20	SL-G-ROLLER	2
11	966-0603-21	MODE-P-ASSY	1	55	622-1623-00	SL-G-ROLLER-R	2
12	966-0604-26	LOCK-PF-ASSY	1	56	622-1648-23	DU-STP-SLEEVE	1
13	966-0605-20	SHIFT-P-ASSY	1	57	622-1650-23	COV-PLATE PIN-B	2
14	966-0606-23	HLC-PLATE-ASSY	1	58	622-1651-00	LOCK-RE-ROLLER	1
15	966-1788-22	COV-PLATE-ASSY	1	59	622-1652-00	LOCK-PF-ROLLER	1
16	HBS-535-100	TOP-PLATE-ASSY	1	60	716-1866-50	SCREW(M1.7x3)	4
17	966-0652-24	DR-BASE-P-ASSY	1	61	716-1873-00	SCREW(M2x1.6)	1
18	966-0615-21	LOCK-L-RF-ASSY	1	62	716-3449-50	SCREW(M2x3)	8
19	966-0616-20	LOCK-L-LF-ASSY	1	63	716-3450-00	SCREW(M1.7x2)	4
20	966-0618-21	EJECT-B-ASSY	1	64	716-3451-01	SCREW(M1.7x2.5)	4
21	966-1742-20	DISC-HOL-ASSY	1	65	716-3459-01	SCREW(M1.7x5)	1
22	001-7042-00	DIODE (GL4800)	4	66	716-3466-53	SCREW(M2x6)	1
23	013-7414-50	DETECTOR SWITCH	1	67	738-1422-1B	PRECISION SCREW	2
24	-----	LED-L-PWB	1	68	743-1200-10	E-RING	2
25	-----	LED-R-PWB	1	69	743-1500-10	E-RING	13
26	-----	SENSOR PWB	1	70	746-0624-00	WASHER	1
27	039-2009-00	PIM-FPC (WITHOUT COMPONENT)	1	71	746-0712-23	WASHER	1
28	039-2010-00	PIV-FPC (WITHOUT COMPONENT)	1	72	746-0761-00	WASHER	1
29	039-2011-01	LED-FPC	1	73	750-3478-01	TOP-P-SP-L	2
30	039-2012-00	SENSOR-FPC	1	74	750-3479-01	TOP-P-SP-R	1
31	039-2013-04	MOS-FPC	1	75	750-3480-01	DR-LOCK-SP	1
32	039-2014-01	L-MOTOR-FPC (WITHOUT COMPONENT)	1	76	750-3483-00	EJECT-A-SPRING	1
33	051-5806-01	IC (GPIS93)	1	77	750-3484-01	DR-BASE-SPRING	1
34	051-5806-02	IC (GPIS95)	1	78	750-3485-01	TENSION-SP-L	1
35	060-0252-01	PHOTO-TR	4	79	750-3486-01	LO-TENSION-SP	1
36	347-6657-01	LO-COVER SHEET	1	80	750-3489-01	DRIVE-P-SPRING	1
37	620-1041-26	GEAR PLATE	1	81	750-3496-00	GAP-P-SPRING R	1
38	620-1042-20	M-GEAR-H	1	82	750-3497-00	GAP-P-SPRING L	1
39	620-1056-22	HLR-PLATE-L	1	83	750-6711-01	DU-STP-SPRING	1
40	620-1580-20	HLR-PLATE-R	1	84	750-6712-01	DR-LOCK-SP-B	1
41	620-1576-20	LO-MOTOR-PLT	1	85	621-0651-22	LOAD GEAR-A	1
42	620-1066-20	LOCK LINK-LR	1	86	347-7860-20	FPC COVER	1
43	620-1067-21	SLIDE PLATE-L	1	87	716-1850-01	SCREW	1
44	620-1068-22	SLIDE PLATE-R	1	88	854-4348-01	EXTENSION LEAD	1
				89	620-1604-20	DR-PLATE-SCREW	1
				90	716-3616-00	SCREW(M2x3)	7

Drive unit section : Drive unit : HBS-592-100



NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-532-101	CLAMPER SUB ASSY	1
2	SMA-196-100	SPINDLE MOTOR ASSY	1
3	SMA-191-100	SLED MOTOR ASSY	1
4	HBS-515-103	LS-ASSY	1
5	620-1587-03	SH-SP-PLT	1
6	HBS-542-101	D-SHIFT-P-ASSY	1
7	969-0011-01	PICK UP-ASSY	1
8	013-7414-50	DETECT SWITCH	1
9	039-2015-02	P/U-FPC	1
10	039-2016-02	M/S-FPC (WITHOUT COMPONENT)	1
11	347-6632-00	PU-SHEET	1
12	620-1078-21	PUSH PLATE	1
13	620-1080-22	PU-GUIDE PLATE	1
14	620-1081-20	SCREW PUSH-PLT	1
15	966-0650-20	SPRING PLT ASSY	1

NO.	PART NO.	DESCRIPTION	Q'TY
16	620-1730-01	SCREW-HOL-PLT	1
17	621-0670-20	LS-HOLDER-L	1
18	621-0673-20	D-GEAR A	1
19	621-0674-20	D-GEAR B	1
20	621-0675-20	D-GEAR C	1
21	621-0683-21	DU-STOPPER	1
22	716-3511-01	SCREW(M1.4x3)	2
23	716-3470-01	SCREW(M1.7x3)	5
24	716-3527-00	SCREW	2
25	738-2025-1H	PRECISION SCREW(M2x2.5)	2
26	716-3474-01	SCREW(M1.7x3)	2
27	743-1500-20	E-RING	1
28	750-3487-00	SHIFT-P-SPRING	1
29	750-3504-00	CLAMP-A-SPRING	1
30	966-0649-02	DRIVE PLT-ASSY	1

ELECTRICAL PARTS LIST

CD PWB(BM1) section

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	168-4735-56	0.047uF Z	IC3	052-5061-02	M30621MCM-FW6GP	R24	119-4731-15	1/10W 47k ohm
C2	168-4735-56	0.047uF Z				R25	119-1031-15	1/10W 10k ohm
C4	168-1222-55	1200pF K	IC4	051-9402-78	BR93L56RFVM-W	R26	119-4721-15	1/10W 4.7k ohm
C5	163-2263-35	16V22uF	IC5	051-3332-90	NJU7222U33	R27	119-1031-15	1/10W 10k ohm
C6	168-1222-55	1200pF K	IC6	051-3293-90	BA033SFP-E2	R28	119-1041-15	1/10W 100k ohm
C12	168-1222-55	1200pF K	J1	074-1189-95	45P	R29	119-1041-15	1/10W 100k ohm
C15	168-1222-55	1200pF K	J3	074-1237-70	20P	R31	119-4731-15	1/10W 47k ohm
C16	163-2263-35	16V22uF	P1	076-0478-55	PLUG	R32	119-0000-05	1/10W 0 ohm JW
C18	168-1045-56	0.1uF Z	Q3	190-1162-00	2SA1162	R35	119-0000-05	1/10W 0 ohm JW
C19	166-1011-50	100pF CH	Q4	198-3018-00	2SK3018	R36	119-4731-15	1/10W 47k ohm
C21	168-1032-55	0.01uF K	Q5	131-1188-50	2SB1188PQR	R37	119-4731-15	1/10W 47k ohm
C22	168-1045-56	0.1uF Z	Q6	198-3018-00	2SK3018	R38	119-2231-15	1/10W 22k ohm
C23	168-1045-56	0.1uF Z	Q7	125-2004-92	RN1402	R39	119-2231-15	1/10W 22k ohm
C24	168-1032-55	0.01uF K		125-2020-92	RN1402TE85L	R40	119-2231-15	1/10W 22k ohm
C25	163-1073-15	6.3V100uF	Q8	125-2004-92	RN1402	R41	119-4711-15	1/10W 470 ohm
C26	178-1052-78	1uF		125-2020-92	RN1402TE85L	R42	119-2231-15	1/10W 22k ohm
C27	168-1045-56	0.1uF Z	Q9	125-0014-92	DTA114EK	R43	119-2241-15	1/10W 220k ohm
C28	042-0671-01	10V 47uF TA		125-0002-92	RN2402TE85L	R60	119-0000-05	1/10W 0 ohm JW
C29	168-1045-56	0.1uF Z	Q53	193-0601-00	2SD601A	R530	119-4731-15	1/10W 47k ohm
C30	178-3342-78	0.33uF	R2	119-2211-15	1/10W 220 ohm	R550	119-4731-15	1/10W 47k ohm
C31	042-1673-00	10V 220uF	R4	119-4731-15	1/10W 47k ohm	TM1	073-0768-90	TERMINAL
CCT4	050-0140-55	1/32W 2.2k ohmx4J	R8	119-4731-15	1/10W 47k ohm	TM2	073-0766-90	TERMINAL
CCT5	050-0145-54	1/16W 47k ohm x4	R10	119-2211-15	1/10W 220 ohm	TM4	073-0766-90	TERMINAL
CCT6	050-0145-53	1/16W 220k ohm x4 J	R13	119-1041-15	1/10W 100k ohm	TM5	073-0766-90	TERMINAL
D2	001-2610-90	RB480KTL	R14	119-2221-15	1/10W 2.2k ohm	X1	060-1533-90	CSTCE10M0G52-R0
IC2	051-5445-08	BD5227G-TR	R15	119-1041-15	1/10W 100k ohm	PWB	039-2532-20	PWB(WITHOUT COMPONENT)
			R16	119-1021-15	1/10W 1k ohm			
			R20	119-4731-15	1/10W 47k ohm			

DSP PWB(BM2) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	042-0671-01	10V 47uF TA	C43	042-0671-01	10V 47uF TA	IC9	051-6700-00	TMS320DA140
C2	168-4735-56	0.047uF Z	C44	046-6812-58	680pF			PGE160
C3	046-4722-58	4700pF	C45	168-1045-56	0.1uF Z	IC10	051-3315-90	TPS76316DBVR
C4	046-1032-78	0.01uF	C46	168-1045-56	0.1uF Z	IC11	051-7221-58	SN74AHC1G04
C5	168-1045-56	0.1uF Z	C47	042-0671-01	10V 47uF TA			HDCKR
C6	042-0671-01	10V 47uF TA	C48	168-5632-78	16V 0.056uF	IC12	051-7525-08	SN74LVC2GU04
C7	168-1045-56	0.1uF Z	C49	168-1045-56	0.1uF Z			DCKR
C8	168-1045-56	0.1uF Z	C50	168-1045-56	0.1uF Z	IC13	051-7526-08	SN74LVC1G126
C9	045-1007-50	10pF	C51	168-1045-56	0.1uF Z			DCKR
C10	168-1045-56	0.1uF Z	C53	168-1045-56	0.1uF Z	J1	074-1201-65	15P
C11	045-1007-50	10pF	C54	042-0671-01	10V 47uF TA	J2	074-1138-56	6P
C12	168-1045-56	0.1uF Z	C56	168-4712-55	470pF K	J3	074-1059-76	26P
C13	042-0672-00	25V 47uF TA	C57	046-1032-78	0.01uF	J4	074-1189-95	45P
C14	168-4735-56	0.047uF Z	C58	168-4712-55	470pF K	J5	074-1201-60	10P
C15	168-4735-56	0.047uF Z	C59	168-1045-56	0.1uF Z	L2	010-3104-54	600ohm / 100MHz
C16	168-4735-56	0.047uF Z	C60	168-1045-56	0.1uF Z	L3	010-3104-54	600ohm / 100MHz
C17	178-1052-78	1uF	C61	046-1032-78	0.01uF	Q1	131-1188-50	2SB1188PQR
C18	045-4701-50	47pF	C62	042-0671-01	10V 47uF TA	Q2	131-1188-50	2SB1188PQR
C19	168-1045-56	0.1uF Z	C63	046-1032-78	0.01uF	Q3	125-2004-92	RN1402
C20	046-4712-58	470pF	C64	168-1045-56	0.1uF Z		125-2020-92	RN1402TE85L
C21	046-4712-58	470pF	C65	045-1201-50	12pF	R1	033-1021-15	1/10W 1k ohm
C22	168-1045-56	0.1uF Z	C66	046-1032-78	0.01uF	R2	033-1021-15	1/10W 1k ohm
C23	046-1532-78	0.015uF	C67	046-1032-78	0.01uF	R3	033-3311-15	1/10W 330 ohm
C24	168-1045-56	0.1uF Z	C68	168-1045-56	0.1uF Z	R4	033-2211-15	1/10W 220 ohm
C25	046-6822-58	6800pF	C69	045-1201-50	12pF	R5	033-2211-15	1/10W 220 ohm
C26	046-1032-78	0.01uF	C101	046-1032-78	0.01uF	R6	033-1021-15	1/10W 1k ohm
C28	046-1022-58	1000pF	C102	046-1032-78	0.01uF	R7	033-1051-15	1/10W 1M ohm
C29	046-3332-78	0.033uF	CCT1	050-0140-68	1/32W 3.3k ohm x4J	R8	033-0000-05	1/10W 0 ohm
C32	046-4722-58	4700pF	CCT4	050-0140-63	1/32W 47k ohm x4J	R10	033-5621-15	1/10W 5.6k ohm
C33	046-1522-58	1500pF	D1	001-0367-91	1SS226	R11	033-4731-15	1/10W 47k ohm
C34	168-1045-56	0.1uF Z	D2	001-2610-90	RB480KTL	R12	119-3341-15	1/10W 330k ohm
C35	046-1532-78	0.015uF	IC2	051-6399-00	TC94A15F	R13	033-2231-15	1/10W 22k ohm
C36	168-1045-56	0.1uF Z	IC3	051-6060-08	BD7961FM-E2	R14	033-2231-15	1/10W 22k ohm
C37	168-1045-56	0.1uF Z	IC4	051-7518-18	SN74LVC139APWR	R15	117-1001-15	1/8W 10 ohm
C38	042-0671-01	10V 47uF TA	IC5	052-5062-05	MBM29DL800BA-90PFTN	R16	033-5631-15	1/10W 56k ohm
C39	178-1052-78	1uF				R17	033-3331-15	1/10W 33k ohm
C40	045-6801-50	68pF	IC6	051-7518-18	SN74LVC139APWR	R18	033-6831-15	1/10W 68k ohm
C41	168-1045-56	0.1uF Z	IC7	051-9330-00	K4S641632F-TC60	R19	033-6831-15	1/10W 68k ohm
C42	178-1052-78	1uF	IC8	051-7203-48	SN74LV74APW	R20	033-1011-15	1/10W 100 ohm

REF No.	PART No.	DESCRIPTION
R21	116-4711-15	1/4W 470 ohm
R22	117-1811-15	1/8W 180 ohm
R23	116-4711-15	1/4W 470 ohm
R24	033-2231-15	1/10W 22k ohm
R25	033-2231-15	1/10W 22k ohm
R26	033-2231-15	1/10W 22k ohm
R27	033-1011-15	1/10W 100 ohm
R28	033-4731-15	1/10W 47k ohm
R29	033-2231-15	1/10W 22k ohm
R30	033-4721-15	1/10W 4.7k ohm
R31	033-4721-15	1/10W 4.7k ohm
R32	033-4731-15	1/10W 47k ohm
R33	033-4731-15	1/10W 47k ohm
R35	033-4731-15	1/10W 47k ohm
R36	033-3311-15	1/10W 330 ohm
R37	033-4731-15	1/10W 47k ohm
R38	033-3311-15	1/10W 330 ohm

REF No.	PART No.	DESCRIPTION
R39	033-2211-15	1/10W 220 ohm
R40	033-1011-15	1/10W 100 ohm
R41	033-1001-15	1/10W 10 ohm
R42	033-1001-15	1/10W 10 ohm
R45	033-1011-15	1/10W 100 ohm
R46	033-4731-15	1/10W 47k ohm
R47	033-4731-15	1/10W 47k ohm
R48	033-1011-15	1/10W 100 ohm
R49	033-0000-05	1/10W 0 ohm
R50	033-0000-05	1/10W 0 ohm
R51	033-8231-15	1/10W 82k ohm
R52	033-0000-05	1/10W 0 ohm
R53	033-4731-15	1/10W 47k ohm
R63	033-2231-15	1/10W 22k ohm
R64	033-2231-15	1/10W 22k ohm
R65	033-4731-15	1/10W 47k ohm
R66	033-4731-15	1/10W 47k ohm

REF No.	PART No.	DESCRIPTION
R100	033-1011-15	1/10W 100 ohm
R101	033-1011-15	1/10W 100 ohm
R102	033-1011-15	1/10W 100 ohm
R103	033-1011-15	1/10W 100 ohm
R104	033-1011-15	1/10W 100 ohm
R105	033-1011-15	1/10W 100 ohm
R106	033-1011-15	1/10W 100 ohm
R107	033-4731-15	1/10W 47k ohm
R200	033-1051-15	1/10W 1M ohm
R201	033-1021-15	1/10W 1k ohm
R202	033-1021-15	1/10W 1k ohm
R220	033-4731-15	1/10W 47k ohm
R301	119-2231-15	1/10W 22k ohm
R302	119-3911-15	1/10W 390 ohm
X1	061-3534-90	16.92MHz
PWB	039-2531-20	PWB(WITHOUT COMPONENT)

Sensor PWB(BM3) section

REF No.	PART No.	DESCRIPTION
PT3	060-0252-01	PT4850F
PT4	060-0252-01	PT4850F
PT5	060-0252-01	PT4850F
PT6	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
S1	013-7414-50	SPVG22
PWB	039-1956-00	PWB(WITHOUT COMPONET)

PIM-FPC(BM4) section

REF No.	PART No.	DESCRIPTION
IC5	051-5806-02	GPIS95

Driver PWB(BM5) section

REF No.	PART No.	DESCRIPTION
C1	168-1045-56	0.1uF
C2	163-1073-35	16V100uF
D1	001-0529-29	MA8051-M
IC1	051-6044-18	BA6920FP-Y

REF No.	PART No.	DESCRIPTION
J1	074-1239-76	26P
J2	074-1100-59	9P
R1	033-1021-15	1/10W 1k ohm
R2	032-0104-59	1/4W 2.2 ohm

REF No.	PART No.	DESCRIPTION
R3	032-0104-59	1/4W 2.2 ohm
S1	013-7412-50	SPVG21
PWB	039-2242-00	PWB(WITHOUT COMPONET)

PIV-FPC(BM6) section

REF No.	PART No.	DESCRIPTION
IC6	051-5806-01	GPIS93

LED-L-PWB(BM7) section

REF No.	PART No.	DESCRIPTION
LED3	001-7042-00	GL4800
LED4	001-7042-00	GL4800

REF No.	PART No.	DESCRIPTION
PWB	039-1954-20	PWB(WITHOUT COMPONET)

LED-R-PWB(BM8) section

REF No.	PART No.	DESCRIPTION
LED5	001-7042-00	GL4800
LED6	001-7042-00	GL4800

REF No.	PART No.	DESCRIPTION
PWB	039-1955-20	PWB(WITHOUT COMPONET)

L-Motor-FPC(BM9) section

REF No.	PART No.	DESCRIPTION
M1	SMA-186-100	LOADING

M/S-FPC(BM10) section

REF No.	PART No.	DESCRIPTION
M2	SMA-196-100	SPINDLE

REF No.	PART No.	DESCRIPTION
M3	SMA-191-100	SLED

REF No.	PART No.	DESCRIPTION
S2	013-7414-50	SPVG22