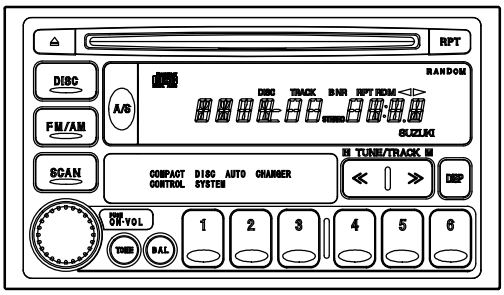
Clarion

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Service Manual



SUZUKI Automobile Genuine
AM/FM Stereo CD Deck

Model PS-2429D

(Genuine No.39101-65DE0-000)

■ ORIGINAL SERVICE MANUAL

This additional service manual is designed to be used together with service manual of PS-2375D,I/PS-2376D,I/PS-2377D,I.

Original model	Manual No.
PS-2375D,I PS-2376D,I PS-2377D,I	298-5854-00

■ SPECIFICATIONS

Radio section

Tuning system:	PLL Frequency synthesizer system	
Receive range:	AM	530kHz to 1,710kHz
	FM	87.75MHz to 107.9MHz
Intermediate frequency:		
	AM	450±3kHz
	FM	10.7±0.2MHz
Quieting sensitivity:	AM	Less than 34dBμ (at 20dB S/N)
	FM	Less than 15dBμ (at 30dB S/N)
Separation:	FM	More than 20dB(at 1kHz)
Auto tuning stop sensitivity:		
	AM	32±6dBμ
	FM	26±6dBμ

CD section

Disc:	Compact disc(8cm/12cm)
Separation:	More than 50dB
S/N ratio:	More than 60dB
Distortion:	Less than 1.0%(at 20kHz LPF)

General

Load impedance:	4Ω
Power output:	16W×4(MAX)
Power supply voltage:	DC13.2V(10.8V to 15.6V) Negative ground
Back-up consumption:	Less than 4mA
Dimensions(mm):	186(W)×106(H)×156.5(D)
Weight:	2.13kg

※ Specifications and design are subject to change without notice for further improvement.

■ NOTE

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.

■ COMPONENTS

PS-2429D-A/PS-2429D-B

Main unit	–––––	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

■EXPLODED VIEW • PARTS LIST

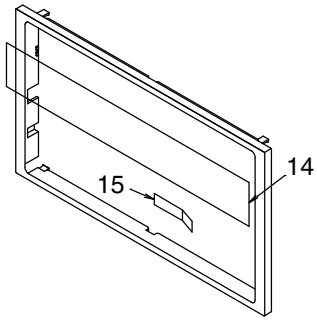
Escutcheon section

Please refer to page 5 of the original service manual.

The following parts are changed in the parts list as well as the original model.

NO.	PART NO.	DESCRIPTION	Q'TY
1	940-7928-25	ESCUTCHEON ASSY	1
13	383-0674-00	FACE PANEL	1

The follwing parts are added in the parts list.



NO.	PART NO.	DESCRIPTION	Q'TY
14	347-5792-00	INSULATOR	1
15	290-4537-43	LABEL	1

※ The other parts of PS-2429D are the same as PS-2375D.

Main section

Please refer to page 6, 7 of the original service manual.

The following parts are changed in the parts list as well as the original model.

NO.	PART NO.	DESCRIPTION	Q'TY
38	353-0537-00	SHADE	2
41	854-8213-02	EXTENSION LEAD	1

The following parts are removed in the parts list as well as the original model.

NO.	PART NO.	DESCRIPTION	Q'TY
29	345-8455-01	CUSHION RUBBER	1
37	347-5206-00	SHADE	1

The following parts are different from the original model.

NO.	PART NO.	DESCRIPTION	Q'TY
1	310-1639-20	UPPER CASE(2429D-B)	1
2	311-1727-24	LOWER CASE(2429D-B)	1
5	309-0698-20	FRONT PLATE(2429D-B)	1
6	331-2275-20	MECHANISM BRACKET (2429D-B)	1
7	331-2281-21	MECHANISM BRACKET (FRONT)(2429D-B)	1
8	331-2282-20	MECHANISM BRACKET(REAR) (2429D-B)	1
9	307-0597-21	REAR PLATE(2429D-B)	1
15	929-0092-82	CD MECHANISM(2429D-B)	1
34	854-4376-50	EXTENSION LEAD(2429D-B)	1
36	286-9497-00	SETPLATE	1
41	854-8213-52	EXTENSION LEAD(2429D-B)	1

※ The part of No.39 in the parts list is not used of PS-2429D.
The other parts of PS-2429D are the same as PS-2375D.

■ELECTRICAL PARTS LIST

Main PWB section(B1)

Please refer to page 11, 12 of the original service manual.

The following parts are different from the original model.
The parts with ※ mark are replaced from JW on the original model.

REF No.	PART No.	DESCRIPTION
C158	178-3332-78	0.033μF
C159	178-3332-78	0.033μF
C254	178-2732-78	0.027μF
C306※	178-1032-78	0.01μF
C307※	178-1032-78	0.01μF
C330※	178-4742-78	0.47μF
C331※	178-2742-78	0.27μF
C332※	178-4742-78	0.47μF
C333※	178-2742-78	0.27μF

REF No.	PART No.	DESCRIPTION
R304	117-3321-10	1/10W 3.3kΩ
R307	117-3321-10	1/10W 3.3kΩ
R308	117-1031-10	1/10W 10kΩ
R309	117-1031-10	1/10W 10kΩ
R312	117-3321-10	1/10W 3.3kΩ
R315	117-3321-10	1/10W 3.3kΩ
R321※	117-2221-10	1/10W 2.2kΩ
R322※	117-2221-10	1/10W 2.2kΩ
R326※	117-2221-10	1/10W 2.2kΩ

REF No.	PART No.	DESCRIPTION
R330※	117-2221-10	1/10W 2.2kΩ
R358※	117-2731-10	1/10W 27kΩ
R359※	117-2731-10	1/10W 27kΩ
R360※	117-6831-10	1/10W 68kΩ
R361※	117-6831-10	1/10W 68kΩ
R362	117-2721-10	1/10W 2.7kΩ
R363	117-2721-10	1/10W 2.7kΩ

The following parts are added in the parts list.

REF No.	PART No.	DESCRIPTION
C308	183-4763-31	16V47μF
C313	184-2273-21	10V220μF
C314	178-3322-78	3300pF
C315	178-3322-78	3300pF
C316	178-3942-78	0.39μF
C317	178-2242-78	0.22μF
C318	178-2242-78	0.22μF
C319	178-3942-78	0.39μF
C322	178-2242-78	0.22μF
C323	178-2242-78	0.22μF
C324	178-6845-79	0.68μF
C325	178-6845-79	0.68μF
C326	178-5622-78	5600pF
C327	178-2732-78	0.027μF
C328	178-5622-78	5600pF
C329	178-2732-78	0.027μF
C334	178-4742-78	0.47μF
C335	178-4742-78	0.47μF
C336	178-2742-78	0.27μF
C337	178-2742-78	0.27μF
C347	178-1242-78	0.12μF
C364	183-4763-31	16V47μF
C365	178-1242-78	0.12μF

REF No.	PART No.	DESCRIPTION
C366	178-2722-78	2700pF
C367	178-2722-78	2700pF
IC301	051-3019-90	NJM2060V
IC303	051-3019-90	NJM2060V
IC304	051-3019-90	NJM2060V
R316	117-1021-10	1/10W 1kΩ
R317	117-1021-10	1/10W 1kΩ
R318	117-1541-10	1/10W 150kΩ
R319	117-1541-10	1/10W 150kΩ
R320	117-1541-10	1/10W 150kΩ
R323	117-1541-10	1/10W 150kΩ
R324	117-1511-10	1/10W 150Ω
R325	117-1511-10	1/10W 150Ω
R327	117-2711-10	1/10W 270Ω
R328	117-1511-10	1/10W 150Ω
R329	117-2711-10	1/10W 270Ω
R331	117-2711-10	1/10W 270Ω
R332	117-1511-10	1/10W 150Ω
R333	117-2711-10	1/10W 270Ω
R334	117-5611-10	1/10W 560Ω
R335	117-5611-10	1/10W 560Ω
R336	117-1821-10	1/10W 1.8kΩ
R337	117-1821-10	1/10W 1.8kΩ

REF No.	PART No.	DESCRIPTION
R338	117-1511-10	1/10W 150Ω
R339	117-1511-10	1/10W 150Ω
R340	117-1511-10	1/10W 150Ω
R341	117-1511-10	1/10W 150Ω
R342	117-1541-10	1/10W 150kΩ
R343	117-1541-10	1/10W 150kΩ
R344	117-1541-10	1/10W 150kΩ
R345	117-1541-10	1/10W 150kΩ
R346	117-5131-10	1/10W 51kΩ
R347	117-5131-10	1/10W 51kΩ
R348	117-5131-10	1/10W 51kΩ
R349	117-5131-10	1/10W 51kΩ
R350	117-1031-10	1/10W 10kΩ
R351	117-1031-10	1/10W 10kΩ
R352	117-1031-10	1/10W 10kΩ
R353	117-1031-10	1/10W 10kΩ
R354	117-1221-10	1/10W 1.2kΩ
R355	117-1221-10	1/10W 1.2kΩ
R356	117-1231-10	1/10W 12kΩ
R357	117-1231-10	1/10W 12kΩ
R379	117-1831-10	1/10W 18kΩ
R404	111-2291-91	1/4WS 2.2Ω
R405	117-1831-10	1/10W 18kΩ

The following parts are removed in the parts list.

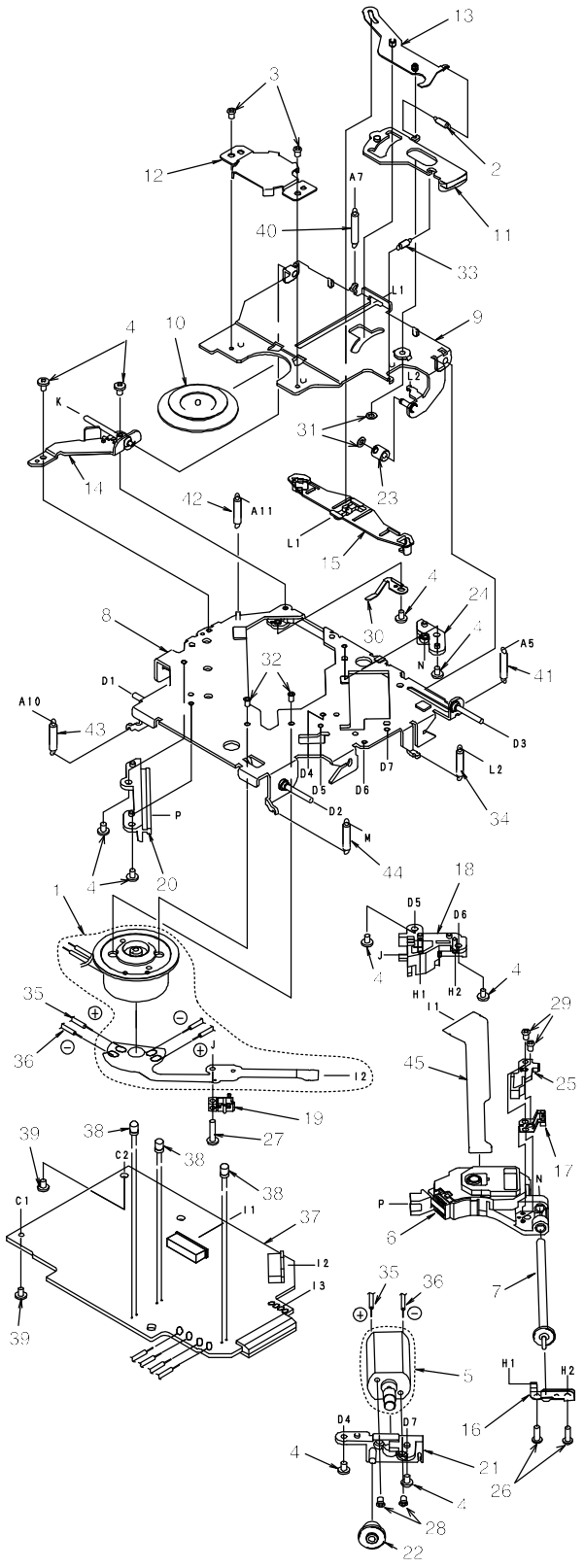
REF No.	PART No.	DESCRIPTION
C309	117-0000-00	1/10W 0Ω JW
C310	117-0000-00	1/10W 0Ω JW

REF No.	PART No.	DESCRIPTION
R310	117-2241-10	1/10W 220kΩ
R311	117-2241-10	1/10W 220kΩ

※ The other parts of PS-2429D are the same as PS-2375D.

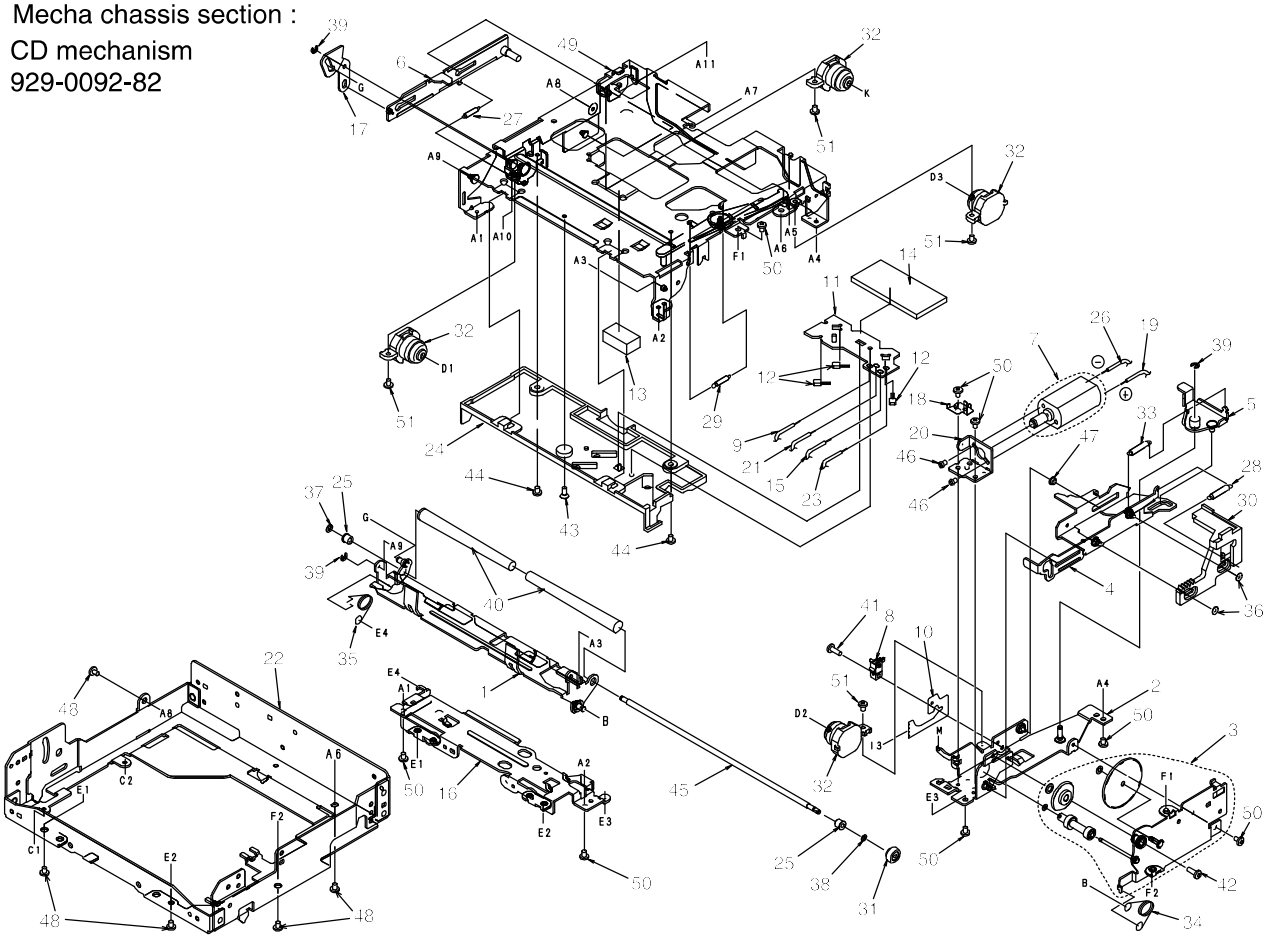
■ EXPLODED VIEW・PARTS LIST

Drive unit section : CD mechanism 929-0092-82



NO.	PART NO.	DESCRIPTION	Q'TY
1	SMA-151-100	MOTOR ASSY(SPINDLE)	1
2	750-3098-00	L-LINK SPRING	1
3	716-1468-00	SCREW(M2×2.5)	2
4	714-2003-81	SCREW(M2×3)	10
5	SMA-146-100	MOTOR ASSY(SLED)	1
6	969-0008-00	PICK UP UNIT	1
7	HBS-432-100	LS-GEAR ASSY	1
8	966-0447-07	DR-PLATE-ASSY	1
9	966-0449-04	CLAMP-LINK-ASSY	1
10	621-0205-02	CLAMPER RING	1
11	621-0251-03	LOCK LINK	1
12	620-0198-03	CLAMPER PLATE	1
13	966-0314-01	STOP LINK-ASSY	1
14	966-0448-01	SIDE PLATE-ASSY	1
15	621-0252-03	DISC STOPPER	1
16	620-0491-03	SPRING PLATE	1
17	966-0454-00	SCREW H-RACK-ASSY	1
18	621-0358-02	LS-HOLDER-F	1
19	013-7100-00	SWITCH(LIMIT)	1
20	621-0357-03	PICK UP GUIDE	1
21	621-0253-02	MOTOR HOLDER	1
22	621-0255-02	SECOND GEAR	1
23	622-1073-02	CLAMPER ROLLER	1
24	621-0359-02	LS-HOLDER-R	1
25	621-0375-00	SH-BASE	1
26	716-0675-00	SCREW(M2×5.5)	2
27	716-1555-00	WAVE SCREW(Φ2×8)	1
28	732-2004-11	SEMS SCREW(M2×4)	2
29	739-1735-17	PRECISION SCREW (M1.7×3.5)	2
30	620-0690-01	RATTLE PLATE	1
31	746-0761-00	WASHER	2
32	716-1733-00	SCREW(M1.7×2.3)	2
33	750-3099-00	ES-SPRING	1
34	750-3097-03	CLAMPER SPRING	1
35	816-2373-00	LEAD WIRE(WHT)	1
36	816-2372-00	LEAD WIRE(BLU)	1
37	039-1732-01	MECHANISM PWB (WITHOUT COMPONENT)	1
38	001-0563-00	LED	3
39	716-1670-00	SCREW(M2×4)	2
40	750-3202-00	CENTER SPRING-B	1
41	750-3096-01	DR-SPRING R	1
42	750-3164-00	DR-SPRING LR	1
43	750-3188-00	DR-SPRING F-B	1
44	750-3201-00	DR-SPRING F-R	1
45	039-1587-00	FPC (WITHOUT COMPONENT)	1

Mecha chassis section :
CD mechanism
929-0092-82



NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0309-05	L-DISC-G-ASSY	1
2	966-0310-06	SHIFT-P-CH-ASSY	1
3	HBS-430-100	GEAR PLATE ASSY	1
4	966-0312-06	SHIFT-PLATE-ASSY	1
5	966-0358-01	DRIVE-L-PLATE-ASSY	1
6	966-0359-03	SIDE-L-PLATE-ASSY	1
7	SMA-147-100	MOTOR ASSY(LOADING)	1
8	013-3879-01	CHUCKING SWITCH	1
9	804-4910-60	VINYL-COAT-WIRE(YEL)	1
10	039-0586-01	CHUCKING SWITCH PWB (WITHOUT COMPONENT)	1
11	039-0588-01	SENSOR PWB (WITHOUT COMPONENT))	1
12	060-0252-01	PHOTO-TR	3
13	345-7513-01	CLAMPER SHEET	1
14	345-7514-00	SENSOR PWB SHEET	1
15	802-4910-60	VINYL-COAT-WIRE(RED)	1
16	620-0485-04	FRONT PLATE	1
17	620-0488-01	S-L-LINK PLATE	1
18	620-0489-02	MOTOR PLATE	1
19	802-4904-60	VINYL-COAT-WIRE(RED)	1
20	620-0492-01	MOTOR BRACKET	1
21	801-4910-60	VINYL-COAT-WIRE(BRN)	1
22	620-0773-01	CD-MECH-BRKT	1
23	800-4910-60	VINYL-COAT-WIRE(BLK)	1
24	621-0402-02	U-DISC GUIDE-F	1
25	621-0243-02	ROLLER SLEEVE	2

NO.	PART NO.	DESCRIPTION	Q'TY
26	800-4904-60	VINYL-COAT-WIRE(BLK)	1
27	750-3189-00	SIDE-L-SPRING	1
28	750-3098-00	L-LINK SPRING	1
29	750-3094-00	S-ARM SPRING	1
30	621-0248-07	RACK GEAR	1
31	621-0249-02	ROLLER GEAR	1
32	629-0074-00	DAMPER	4
33	750-3092-03	SHIFT SPRING	1
34	750-3091-03	ROADING-SPRING-R	1
35	750-3090-02	ROADING-SPRING-L	1
36	746-0877-02	WASHER	2
37	746-0762-00	WASHER	1
38	746-0712-03	WASHER	1
39	743-1500-10	E-RING	3
40	621-0258-03	LOADING ROLLER	2
41	716-1742-00	SCREW(M2×5)	1
42	716-1704-00	SCREW(M2×7)	1
43	716-1677-00	SCREW(M2×5)	1
44	716-1507-00	SCREW(M2×3)	2
45	622-1072-05	ROLLER SHAFT	1
46	716-1468-00	SCREW(M2×2.5)	2
47	622-1219-01	SHIFT ROLLER	1
48	714-2603-81	SCREW(M2.6×3)	5
49	966-0308-11	CHASSIS ASSY	1
50	714-2003-81	SCREW(M2×3)	8
51	716-1670-00	SCREW(M2×4)	4

■ELECTRICAL PARTS LIST

Mechanism PWB section(B3) : CD mechanism 929-0092-82

REF No.	PART No.	DESCRIPTION
C1	163-1073-10	6.3V100 μF
C3	178-1042-78	0.1 μF
C4	178-2222-78	2200pF
C5	178-1042-78	0.1 μF
C6	178-1042-78	0.1 μF
C7	178-1042-78	0.1 μF
C8	176-1501-00	15pF CH
C9	176-1501-00	15pF CH
C10	176-1201-00	12pF CH
C11	178-1042-78	0.1 μF
C13	178-1042-78	0.1 μF
C14	178-1042-78	0.1 μF
C15	178-1042-78	0.1 μF
C16	178-1042-78	0.1 μF
C17	163-1073-31	16V100 μF
C18	176-4701-00	47pF CH
C19	178-1532-78	0.015 μF
C20	178-1032-78	0.01 μF
C21	178-2722-78	2700pF
C22	178-4722-78	4700pF
C23	178-1042-78	0.1 μF
C24	178-1042-78	0.1 μF
C25	178-1042-78	0.1 μF
C26	178-4712-78	470pF
C27	178-4712-78	470pF
C28	178-4732-78	0.047 μF
C29	178-4732-78	0.047 μF
C30	178-4732-78	0.047 μF
C31	178-4732-78	0.047 μF
C32	163-4763-05	4V47 μF
C33	163-4763-05	4V47 μF
C34	176-1801-00	18pF CH
C35	176-6097-00	6pF CH
C36	176-6801-00	68pF CH
C37	176-2201-00	22pF CH
C38	178-1042-78	0.1 μF
C39	163-4763-05	4V47 μF
C44	178-2242-78	0.22 μF
C45	178-2242-78	0.22 μF
C46	163-4763-10	6.3V47 μF
C47	178-8222-78	8200pF
C48	178-1042-78	0.1 μF
C50	163-1073-10	6.3V100 μF
C51	178-1042-78	0.1 μF
C52	178-2232-78	0.022 μF
C54	176-2201-00	22pF CH
C61	178-1042-78	0.1 μF
C63	178-1042-78	0.1 μF
C64	178-1042-78	0.1 μF
C65	178-1042-78	0.1 μF
D4	001-0516-00	MA111
IC1	051-5704-00	TA2096FN
IC2	051-6342-00	TC9462F
IC3	051-6045-08	BA5984FP
J1	074-1138-66	16P
J2	074-1138-06	6P
L1	010-2155-93	10 μH
L3	010-2199-74	10 μH J
Q1	101-1188-50	2SB1188PQR
R1	117-2211-10	1/10W 220Ω
R2	117-2211-10	1/10W 220Ω
R3	117-5611-10	1/10W 560Ω
R4	117-5611-10	1/10W 560Ω
R5	117-4711-10	1/10W 470Ω
R6	117-3311-10	1/10W 330Ω
R7	117-4721-10	1/10W 4.7kΩ
R8	117-1041-10	1/10W 100kΩ
R9	117-1031-10	1/10W 10kΩ
R10	117-4731-10	1/10W 47kΩ
R12	117-4741-10	1/10W 470kΩ
R13	117-3331-10	1/10W 33kΩ
R14	117-3321-10	1/10W 3.3kΩ
R15	117-1031-10	1/10W 10kΩ
R16	117-3321-10	1/10W 3.3kΩ
R17	117-3321-10	1/10W 3.3kΩ
R18	117-3321-10	1/10W 3.3kΩ
R19	117-3321-10	1/10W 3.3kΩ
R20	117-3321-10	1/10W 3.3kΩ
R21	117-2221-10	1/10W 2.2kΩ
R22	117-8211-10	1/10W 820Ω
R23	117-9131-10	1/10W 91kΩ
R24	117-1041-10	1/10W 100kΩ
R25	117-1041-10	1/10W 100kΩ
R26	117-1841-10	1/10W 180kΩ
R27	117-1841-10	1/10W 180kΩ
R28	117-2211-10	1/10W 220Ω
R29	117-2201-10	1/10W 22Ω
R30	117-1041-10	1/10W 100kΩ
R31	117-1041-10	1/10W 100kΩ
R32	117-1041-10	1/10W 100kΩ
R33	117-1041-10	1/10W 100kΩ
R34	117-1041-10	1/10W 100kΩ
R35	117-2241-10	1/10W 220kΩ
R36	117-1041-10	1/10W 100kΩ
R37	117-1041-10	1/10W 100kΩ
R38	117-8231-10	1/10W 82kΩ
R39	117-1841-10	1/10W 180kΩ
X1	061-3500-90	16.920MHz

Sensor PWB section(B4) : CD mechanism 929-0092-82

REF No.	PART No.	DESCRIPTION
Q101	060-0252-01	PT4850F
Q102	060-0252-01	PT4850F
Q103	060-0252-01	PT4850F

Chucking switch PWB section(B5) : CD mechanism 929-0092-82

REF No.	PART No.	DESCRIPTION
S2	013-3879-01	SPPB12

Limit switch PWB section(B6) : CD mechanism 929-0092-82

REF No.	PART No.	DESCRIPTION
S1	013-7100-00	SPPB11