back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence or repair, the legal responsibility shall be with the repairing company.

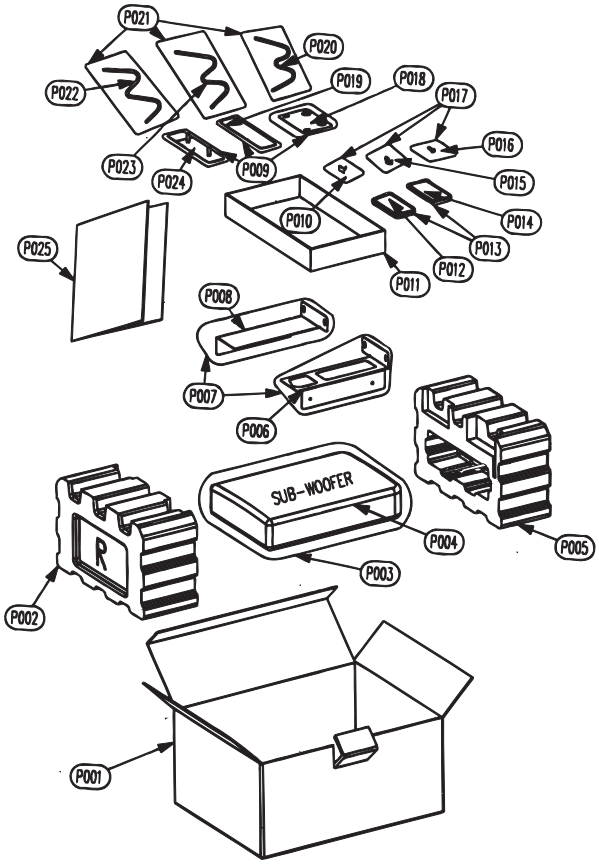
5. Cautions regarding chips.

   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB.

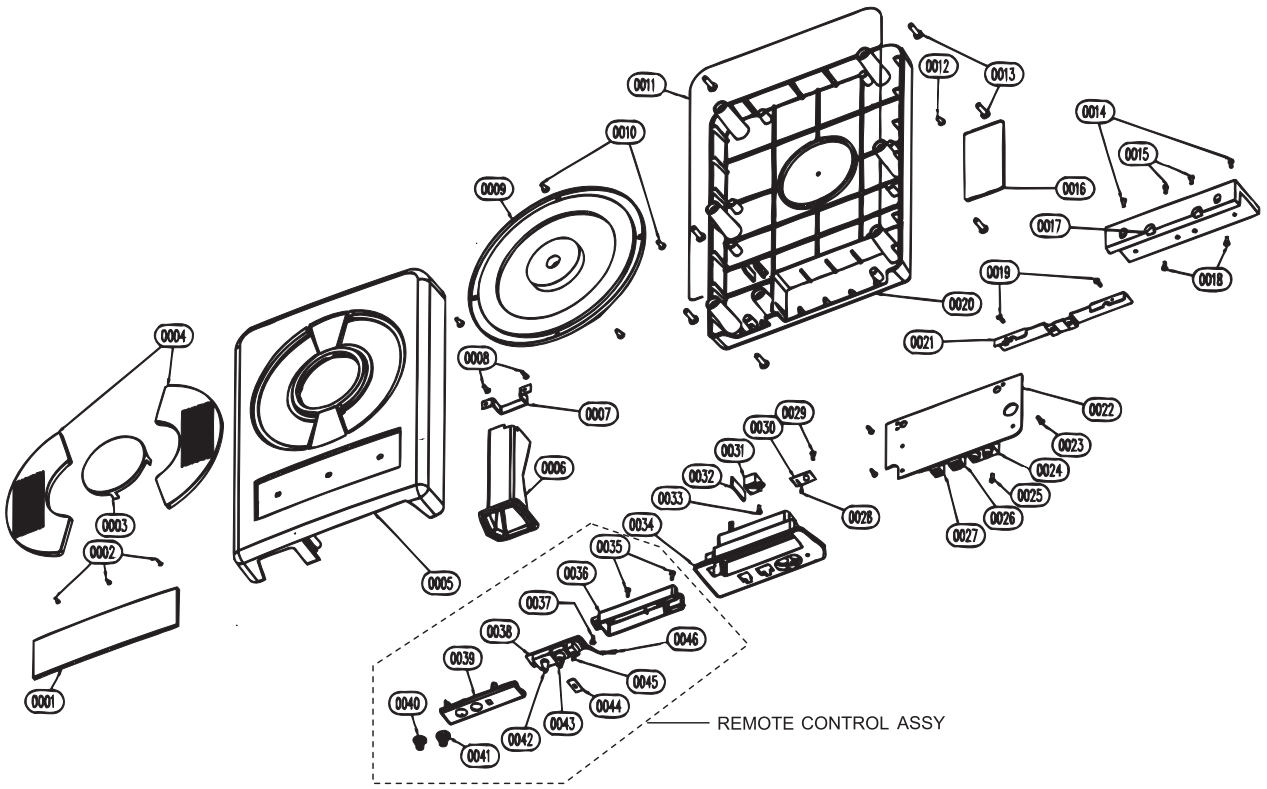
   Before working with a soldering iron, make sure that the iron tip temperature is around 270˚C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

■ COMPONENT



NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION	QTY.
P001	----------	1478-1501-1	GIFT BOX	1
P002	----------	1490-3753-0	POLYFOAM R WHITE	1
P003	----------	1497-7042-0	POLYBAG 500X330X0.1mm	1
P004	----------	SRV303(SE302A01)	SE-302A-01(SUB-WOOFER)	1
P005	----------	1490-3750-0	POLYFOAM L WHITE	1
P006	654-0543-04	4135-0871-0	RIGHT PORTRAIT BRACkET	1
P007	----------	1497-2092-0	POLYBAG PE 04X10X10 W/LD	2
P008	654-0543-05	4135-0861-0	LEFT PORTRAIT BRACKET	1
P009	----------	1497-1302-0	POLYBAG 200X115X0.1X5	6
P010	654-0543-06	4135-0571-0	CLAMP(DOUBLE FACE TAPE)	2
P011	----------	1435-7100-0-1	CARTON BOX FOR SUNDRY	1
P012	654-0543-08	4154-3671-0	MAGIC TAPE(MALE)	1
P013	----------	1497-1212-0	POLYBAG	2
P014	654-0543-09	4154-3681-0	MAGIC TAPE(FEMALE)	1
P015	654-0543-10	4135-0611-0	BUTTERFLY NUT	4
P016	654-0543-11	2910-5016-3000	SCREW TAP-C1 PH M5X16mm	4
P017	----------	1497-1212-0	POLYBAG	3
P018	654-0543-12	4135-1411-0	SIDE BRACKET	2
P019	654-0543-13	4154-3631-1	CUSHING RUBBER	2
P020	654-0552-02	7012-6295-0	4PIN CONN.WIRE W/FUSE	1
P020-1	120-0100-00	----------	FUSE (10A)	1
P021	----------	1497-1312-0	POLYBAG 255X180X0.1X8	3
P022	654-0543-15	7010-2325-1	PLUG CORD 8PIN FOR REMOTE CONTROL	1
P023	654-0552-03	7012-6296-0	6PIN CONN.WIRE W/396A	1
P024	654-0543-17	4135-0601-0	AUCHOR BRACKET	2
P025	----------	4301-4185-0	INSTALLATION MANUAL	1

☐ Main unit



NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION	QTY.
0001	654-0552-05	4154-1892-1	BRAND PLATE ABS	1
0002	654-0552-06	2954-2008-3000	TAPPING SCREW 2x6	3
0003	654-0543-32	4135-0551-0	SPEAKER-CAP PRESSING	1
0004	654-0552-07	4135-0541-1	SPEAKING-NET PRESSING	2
0005	654-0552-08	1403-6560-2	HOUSING UPPER PART	1
0006	654-0543-35	4154-1791-0	BUFFER	1
0007	654-0552-09	4135-1371-1	BUFFER-HOLDER	1
0008	654-0543-37	2900-3006-3000	MS SCREW M3x6 BLACK	2
0009	654-0543-38	8900-5770-0	8"WOOFER FOR SRV303	1
0010	654-0543-39	2900-4006-3010	M4x0.5Px6mm W/FLAT WASHER	4
0011	654-0543-40	4154-3551-0	SILICAGEL GASkET	1
0012	654-0543-42	2901-4008-3000	M/C SCREW M4x8 CSH BZ	1
0013	654-0543-41	2900-5012-3000	SCREW M5x12 PH BLK ZN	7
0014	654-0543-43	2900-3014-3000	M3x14 (BLK)	2
0015	654-0543-44	2900-2612-0000	SCREW M2.6x12	2
0016	654-0552-10	3000-9216-0	MODEL LABEL	1
0017	654-0543-46	5400-3371-0	HEAT SINK J0770C	1
0018	654-0543-47	2900-3010-3000	MS SCREW M3x10 BLACK	2
0019	654-0543-37	2900-3006-3000	MS SCREW M3x6 BLACK	2
0020	654-0552-11	4154-1781-1	HOUSING BOTTOM PART	1
0021	654-0543-49	4135-0531-0	PWB HOLDER	1
0022	654-0552-12	1723-786A-0101A	MAIN BOARD(WITHOUT COMPONENT)	1
0023	654-0543-47	2900-3010-3000	SCREW M3x10 BZ CROSS	5
0024	654-0543-51	2113-1725-0	6PIN JACK JP1042-01-023 H-TYPE	1
0025	654-0543-52	2954-3008-3000	T3x8mm SELF TAPPING	1

NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION	QTY.
0026	654-0543-53	2113-1727-0	6HOLE CAR DC JACK (T42-6AW)	1
0027	654-0543-54	2113-1726-0	4HOLE CAR DC JACK (T42-4AW)	1
0028	654-0543-55	3700-2522-R	LED 3MM RED	1
0029	654-0543-52	2954-3008-3000	T3x8mm SELF TAPPING	1
0030	654-0552-13	1723-786A-0101B	LED PWB(WITHOUT COMPONENT)	1
0031	654-0543-57	2113-1728-0	8PIN DIN SOCKET	1
0032	654-0552-14	1723-544A-0001	DIN PWB(WITHOUT COMPONENT)	1
0033	654-0543-37	2900-3006-3000	MS SCREW M3x6 BLACK	1
0034	654-0552-15	4154-1801-1	TERMINAL PLATE	1
REMOTE CONTROL				
	654-0552-16	8912-0011-0	REMOTE CONTROL ASSY	1
0035	654-0543-19	2921-3008-3000	S/T SCREW D3x8 BZ	2
0036	654-0552-17	4154-1821-1	REMOTE CONTROL BOTTOM	1
0037	654-0543-61	2954-3012-3000	T3X12mm SELF TAPPING	1
0038	654-0552-18	1723-787A-0100	REMOTE BOARD(WITHOUT COMPONENT)	1
0039	654-0552-19	4154-1812-1	REMOTE CONTROL UPPER	1
0040	654-0543-25	2445-1301-0	VR KNOB	1
0041	654-0543-26	2445-1401-0	SW2-KNOB	1
0042	654-0543-22	5200-3642-0	SWITCH ROTARY 1 POLE 4	1
0043	654-0543-27	4750-5886-0	VR RK09K1130 20kBX1	1
0044	654-0543-23	1454-2360-0	SWITCH COVER PVC	1
0045	654-0543-28	5200-3633-0	SLIDE SWITCH	1
0046	654-0543-29	7010-2326-1	8PIN DIN/SOCKET ASSY	1

■ ELECTRICAL PARTS LIST

□ Main PWB (B1)

REF NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION
CAPACITORS			
C1	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C2	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C3	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C4	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C5	654-0543-63	150F-101K-5-IEA	CC 50V 100p 10% RL 5X3
C6	654-0543-63	150F-101K-5-IEA	CC 50V 100p 10% RL 5X3
C7	654-0543-64	153H-474K-9-NO	CM 100V 0.47uF 10% RB 7.5
C8	654-0543-65	153H-823K-5-QSA	CM 100V 0.082uF 10% RL 9x10
C9	654-0543-66	153H-153K-5-KRA	CM 100V 0.015uF 10% RL 6x9.5
C10	654-0543-67	153H-102J-5-INA	CM 100V 0.001uF 5% RL
C11	654-0543-68	153F-683J-5-NLM	CM 50V 0.068uF 5% RL 7.5x6.5
C12	654-0543-69	153H-393K-5-MRA	CM 100V 0.039uF 10% RL 7x9.5
C13	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C14	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C15	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C16	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C17	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C18	654-0543-62	150F-221K-5-OF	CC 50V 220pF 10% RL 8x3.5
C19	654-0543-67	153H-102J-5-INA	CM 100V 0.001uF 5% RL
C20	654-0543-63	150F-101K-5-IEA	CC 50V 100p 10% RL 5X3
C21	654-0543-70	150F-103K-5-II	CC 50V 0.01uF 10% RL 5x5
C22	641-0109-40	150F-102K-5-II	CC 50V 1000pF 10% RL 5X5
EC1	641-0106-57	157E-106M-5-GM	CE 25V 10uF 20% RL 4X7
EC2	641-0106-57	157E-106M-5-GM	CE 25V 10uF 20% RL 4X7
EC3	641-0106-57	157E-106M-5-GM	CE 25V 10uF 20% RL 4X7
EC4	641-0106-57	157E-106M-5-GM	CE 25V 10uF 20% RL 4X7
EC5	641-0106-56	157F-475M-5-GM	CE 50V 4.7uF 20% RL 4x7
EC6	641-0106-56	157F-475M-5-GM	CE 50V 4.7uF 20% RL 4x7
EC7	641-0105-04	157E-476M-5-IU	CE 25V 47uF 20% RL 5x11
EC8	654-0543-73	157F-474K-5-GMA	CE 50V 0.47uF 10% RL 4X7
EC9	641-0109-50	157D-336M-5-GM	CE 16V 33uF 20% RL 4X7
EC10	654-0543-74	157H-104M-5-IU	CE 100V 0.1uF 20% RL 5x11
EC11	641-0105-04	157E-476M-5-IU	CE 25V 47uF 20% RL 5x11
EC12	641-0105-09	157F-105M-5-GM	CE 50V 1uF 20% RL 4x7
EC13	654-0543-75	157D-106M-5-IU	CE 16V 10uF 20% RL 5x11
EC14	641-0102-55	157C-227M-5-KW	CE 10V 220uF 20% RL 6x12
EC15	654-0543-76	157D-688M-5-5&K	CE 16V 6800uF 20% RL 16X25
EC17	654-0543-75	157D-106M-5-IU	CE 16V 10uF 20% RL 5x11
EC18	641-0105-04	157E-476M-5-IU	CE 25V 47uF 20% RL 5x11
EC19	641-0105-04	157E-476M-5-IU	CE 25V 47uF 20% RL 5x11
EC20	654-0543-75	157D-106M-5-IU	CE 16V 10uF 20% RL 5x11
EC21	654-0543-75	157D-106M-5-IU	CE 16V 10uF 20% RL 5x11
EC22	654-0543-75	157D-106M-5-IU	CE 16V 10uF 20% RL 5x11
EC23	654-0543-75	157D-106M-5-IU	CE 16V 10uF 20% RL 5x11
EC24	654-0543-77	157D-226M-5-IU	CE 16V 22uF 20% RL 5x11
EC25	654-0543-78	153F-684K-5-KW	CM 50V 0.68uF 10% RL 6x12
EC26	654-0543-79	157F-225M-5-IU	CE 50V 2.2uF 20% RL 5x11
EC27	654-0543-79	157F-225M-5-IU	CE 50V 2.2uF 20% RL 5x11
COIL			
L1	654-0543-83	1806-2431-0	DC OUTPUT FILTER COIL EI28
WAFER			
CON1A	654-0543-71	2102-020S-003	2P ST. WAFER P=2.0 COULOMB
JACK			
P1	654-0543-51	2113-1725-0	6PIN JACK JP1042-01-023 H-TYPE
P2	654-0543-53	2113-1727-0	6HOLE CAR DC JACK (T42-6AW)
P3	654-0543-54	2113-1726-0	4HOLE CAR DC JACK (T42-4AW)
ICS			
IC1	051-0422-51	3130-0890-0	IC NJM4558D DUAL OP AMP
IC2	051-0422-51	3130-0890-0	IC NJM4558D DUAL OP AMP
IC3	051-0422-51	3130-0890-0	IC NJM4558D DUAL OP AMP
IC4	654-0543-80	3130-1970-0	IC SA571N-COMPRESSOR PHILIPS
IC5	654-0543-81	3131-7190-0	IC TDA8563Q
DIODES			
D1	654-0543-72	4805-4040-1	DIODE 1N5404 3A 400V
D2	641-0056-78	4804-1480-2	DIODE 1N4148 AT
D3	641-0056-78	4804-1480-2	DIODE 1N4148 AT
D4	641-0056-78	4804-1480-2	DIODE 1N4148 AT

□ Main PWB (B1)

REF NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION
TRANSISTORS			
Q1	641-0050-37	4860-0060-5	TR SS8550 C/D SAMSUNG RL
Q2	641-0050-37	4860-0060-5	TR SS8550 C/D SAMSUNG RL
Q3	641-0050-36	4860-0050-5	TR SS8050 C/D SAMSUNG RL
Q4	654-0543-84	4860-0700-5	TR 2SC1815 (G.R) RL
Q5	654-0543-84	4860-0700-5	TR 2SC1815 (G.R) RL
WIRES			
J18A	654-0543-82	7010-2298-0	6PIN RARNBOW WIRE AWG28 1007 UL/CSA
SP1	654-0543-92	7010-2303-0	CONN.WIRE FOR SPK UL1007 20AWG YELLOW,BLUE
SP2	654-0543-93	7010-2301-0	CONN.WIRE FOR SPK UL1007 20AWG BLK,WHITE
RESISTORS			
R1	111-2231-91	4701-223J-C	RCF 1/8W 22k 5% ATS
R2	111-2231-91	4701-223J-C	RCF 1/8W 22k 5% ATS
R3	111-2231-91	4701-223J-C	RCF 1/8W 22k 5% ATS
R4	111-2231-91	4701-223J-C	RCF 1/8W 22k 5% ATS
R5	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R6	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R7	111-1521-91	4701-152J-C	RCF 1/8W 1.5k 5% ATS
R8	111-1521-91	4701-152J-C	RCF 1/8W 1.5k 5% ATS
R9	111-1531-91	4701-153J-C	RCF 1/8W 15k 5% ATS
R10	111-1521-91	4701-152J-C	RCF 1/8W 1.5k 5% ATS
R12	111-1021-91	4701-102J-C	RCF 1/8W 1k 5% ATS
R13	111-1041-91	4701-104J-C	RCF 1/8W 100k 5% ATS
R14	654-0543-85	4701-561J-C	RCF 1/8W 560R 5% ATS
R15	654-0543-86	4701-393J-C	RCF 1/8W 39k 5% ATS
R16	111-3331-91	4701-333J-C	RCF 1/8W 33k 5% ATS
R17	654-0543-87	4701-243J-C	RCF 1/8W 24k 5% ATS
R18	111-8211-91	4701-821J-C	RCF 1/8W 820R 5% ATS
R19	111-3321-91	4701-332J-C	RCF 1/8W 3.3k 5% ATS
R20	111-8211-91	4701-821J-C	RCF 1/8W 820R 5% ATS
R21	654-0543-88	4701-513J-C	RCF 1/8W 51k 5% ATS
R22	654-0543-89	4701-273J-C	RCF 1/8W 27k 5% ATS
R23	654-0543-89	4701-273J-C	RCF 1/8W 27k 5% ATS
R24	111-1011-91	4701-101J-C	RCF 1/8W 100R 5% ATS
R25	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R26	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R27	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R28	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R29	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R30	111-1521-91	4701-152J-C	RCF 1/8W 1.5k 5% ATS
R31	111-1521-91	4701-152J-C	RCF 1/8W 1.5k 5% ATS
R32	654-0543-86	4701-393J-C	RCF 1/8W 39k 5% ATS
R33	654-0543-86	4701-393J-C	RCF 1/8W 39k 5% ATS
R34	654-0543-90	4701-122J-C	RCF 1/8W 1.2k 5% ATS
R35	111-5621-91	4701-562J-C	RCF 1/8W 5.6k 5% ATS
R36	111-5621-91	4701-562J-C	RCF 1/8W 5.6k 5% ATS
R37	654-0543-86	4701-393J-C	RCF 1/8W 39k 5% ATS
R38	111-1021-81	4707-102J-2	RCF 1/2W 1k 5% AT
R39	111-2721-91	4701-272J-C	RCF 1/8W 2.7k 5% ATS
R40	111-2721-91	4701-272J-C	RCF 1/8W 2.7k 5% ATS
R41	111-2221-91	4701-222J-C	RCF 1/8W 2.2k 5% ATS
R42	111-1041-91	4701-104J-C	RCF 1/8W 100k 5% ATS
R43	111-1831-91	4701-183J-C	RCF 1/8W 18k 5% ATS
R44	111-8221-91	4701-822J-C	RCF 1/8W 8.2k 5% ATS
R45	111-4721-91	4701-472J-C	RCF 1/8W 4.7k 5% ATS
R46	111-1831-91	4701-183J-C	RCF 1/8W 18k 5% ATS
R47	111-1831-91	4701-183J-C	RCF 1/8W 18k 5% ATS
R48	111-1011-91	4701-101J-C	RCF 1/8W 100R 5% ATS
R49	111-1231-91	4701-123J-C	RCF 1/8W 12k 5% ATS
R50	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R51	654-0543-91	4701-560J-C	RCF 1/8W 56R 5% ATS
R52	654-0543-91	4701-560J-C	RCF 1/8W 56R 5% ATS
R53	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R54	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
R55	111-1031-91	4701-103J-C	RCF 1/8W 10k 5% ATS
ZENER			
Z1	654-0552-20	4837-1001-2	DZ 1/2W 10V Rohm AT
Z2	654-0543-94	4837-2B41-2	DZ 1/2W 2.43-2.63V Rohm AT(MTZJ2.4B)

☐ Remote Control PWB (B2)

REF NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION
CAPACITORS			
C50	654-0543-95	150F-104M-P-AC	CC 50V 0.1uF 20% 0603/1608
C51	654-0543-95	150F-104M-P-AC	CC 50V 0.1uF 20% 0603/1608
C52	654-0543-96	150F-224K-J-BD	CC 50V 0.22uF 10% 0805 1.5X2.5
C54	654-0543-95	150F-104M-P-AC	CC 50V 0.1uF 20% 0603/1608
C55	654-0543-95	150F-104M-P-AC	CC 50V 0.1uF 20% 0603/1608
C56	654-0543-95	150F-104M-P-AC	CC 50V 0.1uF 20% 0603/1608
RESISTORS			
R11	119-2221-10	4723-222J-P	RMG 1/16W 2.2k 5% 0603/1608
R56	119-4741-10	4723-474J-P	RMG 1/16W 470k 5% 0603/1608
R57	119-4741-10	4723-474J-P	RMG 1/16W 470k 5% 0603/1608
R58	119-4741-10	4723-474J-P	RMG 1/16W 470k 5% 0603/1608
SW1	654-0543-28	5200-3633-0	SLIDE SWITCH FFF0 91-2 KNOB TYPE
SW2	654-0543-22	5200-3642-0	SWITCH ROTARY 1 POLE 4 POSITIONS
VR1	654-0543-27	4750-5886-0	VR RK09K1130 20kBX1 L=20mm ALPS

☐ DIN PWB (B3)

REF NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION
M1A	654-0543-57	2113-1728-0	8PIN DIN SOCkET

☐ LED PWB (B4)

REF NO.	PART NO.	MANUFACTURE NO.	DESCRIPTION
D5	654-0543-55	3700-2522-R	LED 3mm RED
CON1B	654-0543-97	7010-2297-0	CONN.WIRE ASSY 2PIN P2.0mm UL1007 26AWG