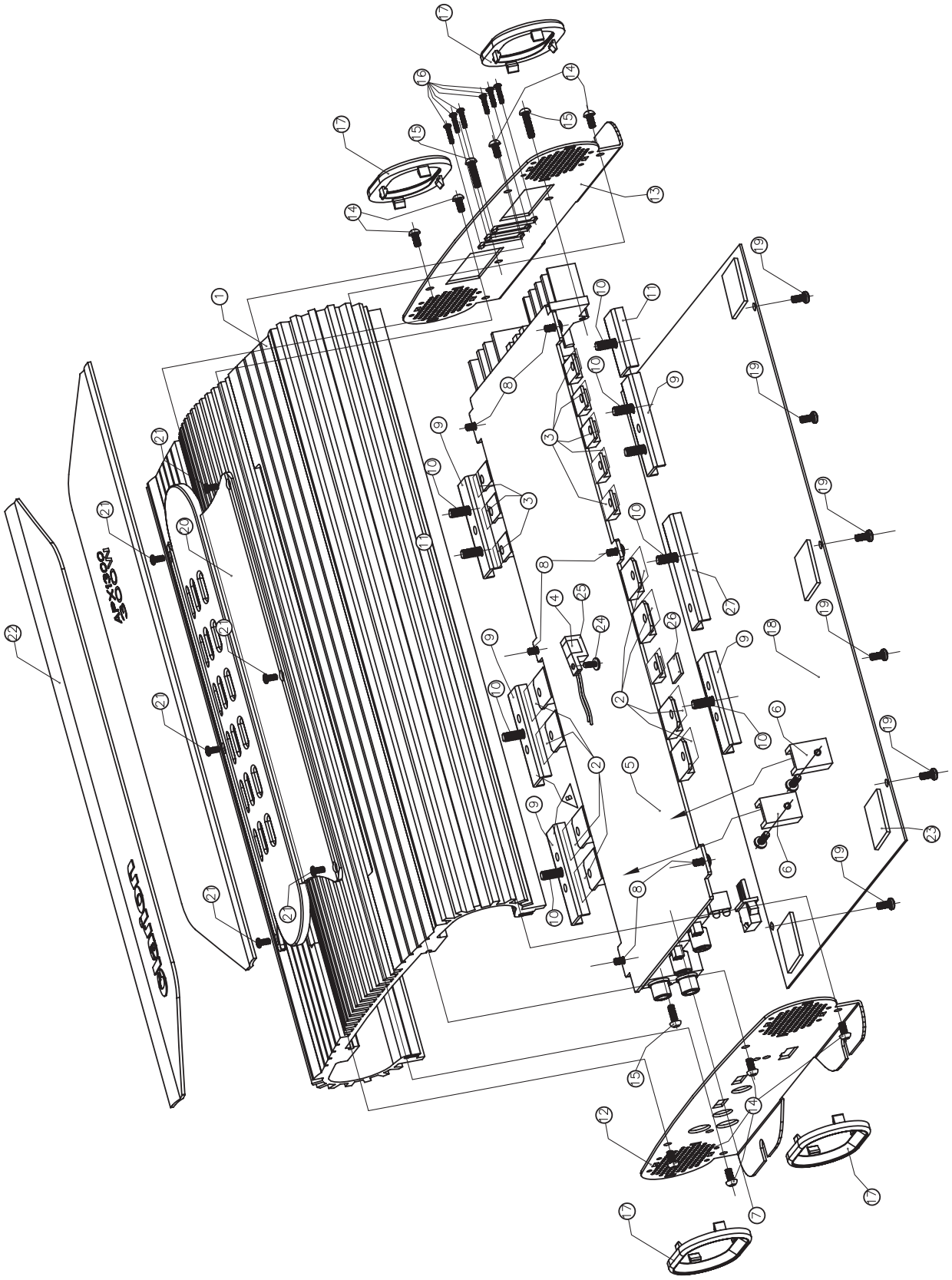
■TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
NO AUDIO	LOW OR NO REMOTE TURN-ON VOLTAGE	CHECK REMOTE CONNECTIONS AT AMPLIFIER AND SOURCE UNIT.
	BLOWN AMPLIFIER FUSE	REPLACE WITH NEW FAST-BLOW FUSE (SAME RATING).
	POWER WIRES NOT CONNECTED	CHECK BATTERY AND GROUND WIRING AT AMPLIFIER; ALSO CHECK BATTERY CONNECTIONS.
	SPEAKER LEADS SHORTED	CHECK SPEAKER CONTINUITY TO GROUND, IT SHOULD NOT SHOW A COMMON GROUND.
	SPEAKERS NOT CONNECTED OR ARE BLOWN	CHECK SPEAKER CONNECTIONS AT AMPLIFIER, MEASURE COIL IMPEDANCE.
AUDIO CYCLES ON AND OFF	THERMAL PROTECTION CIRCUITS ARE SHUTTING AMPLIFIER OFF	CHECK LOCATION FOR ADEQUATE VENTILATION; CONSULT AN AUTHORIZED CLARION AUDIO DEALER.
DISTORTED AUDIO.	GAIN IS NOT SET PROPERLY, OR DAMAGED SPEAKER CONES	REVIEW SETTING GAIN; INSPECT EACH SPEAKER CONE FOR SIGNS OF DAMAGE (I.E., FROZEN CONE, BURNING SMELL, ETC.)
AMPLIFIER FUSE KEEPS BLOWING	INCORRECT WIRING OR SHORT CIRCUIT	REVIEW INSTALLATION AND CHECK ALL WIRING CONNECTION.
WHINING OR TICKING NOISE IN THE AUDIO WITH ENGINE ON.	AMPLIFIER IS PICKING UP ALTERNATION NOISE OR RADIATED NOISE	TURN DOWN INPUT GAIN AND MOVE AUDIO CABLES AWAY FROM POWER WIRES. CHECK POWER AND GROUND CONNECTIONS ON AMPLIFIER AND INSTALL AN IN-LINE NOISE FILTER ON SOURCE UNIT'S POWER WIRE. ALSO CHECK THE ALTERNATOR AND /OR VOLTAGE. TEST FOR WEAK BATTERY OR ADD WATER TO BATTERY.

■EXPLODED VIEW / PARTS LIST

1	UB	93-DB29-0000	Heat sink 298mm	PCS
2	UB	TIN-AMIT2-016	Mica 18*13*0.1mm	PCS
3	UB	TIN-AMIT2-018	Mica 25*20*0.1mm	PCS
4	UB	29-0805-0300-ED	EVA 8X5X3mm30pa(Black)	PCS
5	UB	PCB-A0A0-16HB-04	PCB 297*153*1.6mm 90V0 BLUE	PCS
6	UB	93-DS22-1222	Mini Heatsink H/S 12.8(L)*8.8W*22.5(H)	PCS
7	UB	04-08-09-00GG	VR CAP (ABS)Φ8.5x9.5mm	PCS
8	UB	LS-FSDG-0306-03	Screw Φ3X6 B-head Nickle plated	PCS
9	UB	JJ-FS46-1506	Bar 45.5mm 2-holes	PCS
10	UB	LS-FSDO-0412	Screw M/R Φ4X12 B-head w/washer	PCS
11	UB	JJ-FS29-0006	Bar 29mm 1-hole	PCS
12	UB	MG-APX1300L	Front panel	PCS
13	UB	MG-APX1300R	Fear panel	PCS
14	UB	LS-FBCG-0308	Screw Φ3X8 P-head Hex Black	PCS
15	UB	LS-FBDG-0312	Screw Φ3X12 P-head Hex Black	PCS
16	UB	LS-FBCG-0210	Screw Φ2X10 P-head Black	PCS
17	UB	MM-APX2120	Eye Ring: ABS	PCS
18	UB	MG-APX4240-02	Bottom cover	PCS
19	UB	LS-FBDG-0610-02	Screw Φ3X6 P-Head black	PCS
20	UB	MG-APX4240	Center decoration panel : ABS	PCS
21	UB	LS-FBCG-0205	Screw Φ2.6X5 Black Flat & P-head	PCS
22	UB	NP-APX1300	Logo Badge / top cover	PCS
23	UB	29-1510-2000-ED	EVA Foam 1.5X10X20mm	PCS
24	UB	LS-FBCG-0305	Screw M3X5 B-head black	PCS
25	UB	29-PH00-001A	Thermistor pad	PCS
26	UB	29-1208-0300-ED	EVA Foam 12X8X3mm30pa black	PCS
27	UB	JJ-FS53-1506	Bar 53MM 2-holes	PCS



ELECTRICAL PART LIST

Part No.	Description	Specification	Q'ty	Location No.
UB CCL-101J2AOAP-01	C/CAPACITOR	101/100V	4	C23, C24, C26, C27
UB CCL-104J2AOAP-01	C/CAPACITOR	104J/100V	9	CP24, CP25, CP26, CP27, CP9, CP19, C32, C33, CP16
UB CCL-470J2AOAP-01	C/CAPACITOR	47/50V	4	C11, C5, C6, C22
UB CCL-471J2AOAP-01	C/CAPACITOR	471/50V	1	C19
UB CCL-473J2AOAP	C/CAPACITOR	473/50V	1	CP32
UB CCL-681J2EOAP-01	C/CAPACITOR	681/250V	1	CP13
UB CEP108J1JHRAP	CAPASITOR	1000uF/63V	6	CP14, CP15, CP150, CP17, CP18, CP180
UB CEP107J1EHR6P-02	CAPASITOR	100uF/25V	4	CP28, CP29, CP8, C20
UB CEN107J1HYRAP-02	CAPASITOR	100uF/25V NP	1	C30
UB CML-104J2AOAP-04	CAPASITOR	104J/100V	1	C29
UB CEP106J1HHR5P-02	CAPASITOR	10uF/50V	3	CP4, C121A, C12
UB CEN105J1HYRAP	CAPASITOR	1uF/50VNP	1	CP6
UB CEP225J1HYR5P-01	CAPASITOR	2.2uF/50V	3	C3, C4, C28
UB CEN226J1HYRAP	CAPASITOR	20uF/25VNP	1	C21
UB CEP228J1VHRAP-02	CAPASITOR	2200uF/35V	3	CP21, CP22, CP23
UB CEP226J1EHR5P-01	CAPASITOR	22uF/25V	3	CP30, CP31, C121
UB CML-393J2AOAP-01	CAPASITOR	393J/100V	1	C16
UB CEN475J1HYRA5P-02	CAPASITOR	4.7uF/50V	4	CP1, CP2, CP20, C18
UB CEP475J1HYR5P-01	CAPASITOR	4.7uF/50V NP	4	C7, C8, C9, C10
UB CML-472J2AOAP-01	CAPASITOR	472/100V	1	CP7
UB CML-473J2AOAP-04	CAPASITOR	473J/100V	6	C13, C14, C15, CP11, CP12, C25
UB CML-683J2AOAP-03	CAPASITOR	683J/100V	1	C17
UB DS-D0IN4004-T	DIODE	IN4004	1	DP11
UB DS-D0IN4148-T-01	DIODE	IN4148	15	D5, D6, D7, D8, D9, D10, D14, DP4, DP2, DP3, DP13, DP5, DP6, DP7, DP8
UB DS-D0IN5402-T-01	DIODE	IN5402	1	DP12
UB FUSE-R250E20H-01	FUSE	20A (UL)	3	F1, F2, F3
UB FUSE-HDCP002	FUSE HOLDER	BLACK	3	F1, F2, F3
UB ST-FS11-0420	GND	4.2*11.8mm (GND-13)	1	
UB RSG-1525-BR	HEAT-SHRINK SLEEVE	Φ1.5 * 25mm UL	2	
UB IA-0000PC817H	IC	PC817	1	U5
UB IA-00TL072CNH-01	IC	TL-072	2	U1, U2
UB IA-00TL494CN-01	IC	TL494CN	1	UP1
UB LC-GG25-0023	INDUCTOR	Φ23mm2.5uH	1	LP1
UB 40-LH10-0017	JUMMPER	2.0*100*17mm	1	JPA3
UB 40-LHA0-0200-02	JUMMPER	2.0*110*17mm	2	JPA1, JPA2
UB 40-LG20-0020	JUMMPER	20*1mm	1	JP4
UB 40-LH25-0201	JUMMPER	25*1.0mm	1	JP5
UB 40-LG30-0026	JUMMPER	30*1.0mm	4	JP1, JP2, JP3, J87
UB 40-LH10-0060	JUMMPER	JUMP 0.6*10mm	4	J3, J12, J34, J38
UB 40-LH12-0000	JUMMPER	JUMP 0.6*12.5mm	28	J6, J7, J33, J42, J84, J85, J86, J87, J88, J89, J90, J91, J92, J93, J94, J95, J96, J97, J101, J102, J107, J108, J110, J111, J112, J114, J115, J18
UB 40-LH13-0060	JUMMPER	JUMP 0.6*13mm	1	J13
UB 40-LH40-0060	JUMMPER	JUMP 0.6*15mm	14	J4, J17, J21, J22, J39, J43, J44, J45, J48, J49, J50, J69, J70, J79
UB 40-LH17-0600	JUMMPER	JUMP 0.6*17.5mm	5	J103, J104, J105, J106, J109
UB 40-LH20-0060	JUMMPER	JUMP 0.6*20mm	25	J10, J11, J23, J28, J29, J35, J61, J62, J63, J64, J65, J66, J67, J68, J71, J72, J73, J116, J117, J118, J119, J120, J121, J122, J123
UB 40-LH65-0060	JUMMPER	JUMP 0.6*6.5mm	32	J1, J8, J13, J14, J15, J16, J19, J20, J26, J27, J30, J31, J32, J36, J37, J40, J41, J46, J47, J52, J53, J54, J55, J56, J57, J58, J59, J60, J82, J83, J99, J100
UB 40-LH75-0060	JUMMPER	JUMP 0.6*7.5mm	9	J24, J25, J74, J75, J76, J77, J78, J80, J81
UB LD-R0U30-004R	LED	Φ3 RED	1	LED1R
UB LD-R0U30-009E	LED	Φ3 BLUE	1	LED2B
UB LD-R0G10-001D	LED HOLDER	10*8.2*4.3mm 2 HOLE	1	LED1R, LED2B
UB ST1-050N06H-01	MOS	50N06 TO-220AB	6	QP5, QP6, QP7, QP8, QP9,
UB JR-12CVA-002Z	RCA	2P RED/WHITE; GOLDEN PLATED	1	RCA

Part No.	Description	Specification	Q'ty	Location No.
UB RW-R15J03-QPP-01	RESISTOR	0.15Ω 3W	8	R58, R61, R64, R67, R70, R72, R74, R76
UB RC-122J02-MLT	RESISTORS	1.2K 2W 5%	2	RP40, RP43
UB RC-4R7J01-MLT-01	RESISTORS	4.7Ω 1W 5%	1	R81,
UB RC-471J01-MLT	RESISTORS	470Ω 1W 5%	2	R7, R8
UB RC-471JW8-MLT-01	RESISTORS	470Ω 1/8W 5%	1	
UB RC-101JW8-MLT-01	RESISTORS	RES 100 1/8W	1	R24
UB RC-104JW8-MLT-01	RESISTORS	RES 100K 1/8W	2	R17, RP12
UB RC-103JW2-MLT	RESISTORS	RES 10K 1/2W	1	RP44
UB RC-103JW8-MLT-01	RESISTORS	RES 10K 1/8W	8	R31, R35, RP39, RP17, R16, RP35, R25, R26
UB RC-100JW2-MLT-01	RESISTORS	RES 10R 1/2W	2	RP28, RP32
UB RC-100JW4-MLT-01	RESISTORS	RES 10R 1/4	8	R57, R60, R63, R66, R69, R71, R75, R73
UB RC-183JW8-MLT-01	RESISTORS	RES 18K 1/8W	1	R20
UB RC-102JW2-MLT-01	RESISTORS	RES 1K 1/2W	1	RP34
UB RC-102JW4-MLT-01	RESISTORS	RES 1K 1/4W	4	R84, R85, R86, R87
UB RC-102JW8-MLT-01	RESISTORS	RES 1K 1/8W	12	R13, R30, R32, R36, R38, R40, R41, RP21, RP22, RP23, RP24, RP16,
UB RC-152JW8-MLT-01	RESISTORS	RES 1K5 1/8W	1	RP3
UB RC-224JW8-MLT-01	RESISTORS	RES 220K 1/8W	1	R39
UB RC-221JW4-MLT-01	RESISTORS	RES 220R 1/4W	1	R56
UB RC-223JW8-MLT-01	RESISTORS	RES 22K 1/8W	5	R3, R4, R29, R47, RP4
UB RC-220JW2-MLT-01	RESISTORS	RES 22R 1/2W	2	RP33, RP44A
UB RC-273JW4-MLT-01	RESISTORS	RES 27K 1/4W	1	R82
UB RC-273JW8-MLT-01	RESISTORS	RES 27K 1/8W	2	RP38, R15
UB RC-222JW8-MLT-01	RESISTORS	RES 2K2 1/8W	1	R141
UB RC-242JW8-MLT	RESISTORS	RES 2K4 1/8W	1	R46
UB RC-272JW8-MLT-01	RESISTORS	RES 2K7 1/8W	1	R51
UB RC-205JW8-MLT	RESISTORS	RES 2M 1/8W	2	RP5, RP8
UB RC-330JW8-MLT-01	RESISTORS	RES 33 1/8W	4	R42, R43, R44, R45
UB RC-331JW8-MLT-01	RESISTORS	RES 330 1/8W	2	R33, R37
UB RC-393JW8-MLT-01	RESISTORS	RES 39K 1/8W	1	R23
UB RC-302JW8-MLT-01	RESISTORS	RES 3K 1/8W	1	RP15
UB RC-332JW8-MLT-01	RESISTORS	RES 3K3 1/8W	2	RP2, FP37
UB RC-392JW8-MLT-01	RESISTORS	RES 3K9 1/4W	4	R59, R62, R65, R68
UB RC-470JW8-MLT-01	RESISTORS	RES 47 1/8W	5	RP25, RP26, RP27, R48, R49
UB RC-473JW8-MLT-01	RESISTORS	RES 47K 1/8W	1	R83
UB RC-470JW4-MLT-01	RESISTORS	RES 47R 1/4W	3	RP29, RP30, RP31
UB RC-472JW2-MLT-01	RESISTORS	RES 4K7 1/2W	2	RP41, RP42
UB RC-472JW8-MLT-01	RESISTORS	RES 4K7 1/8W	3	R79, R80, RP36
UB RC-563JW8-MLT-01	RESISTORS	RES 56K 1/8W	3	RP14, R52, R53
UB RC-512JW8-MLT-01	RESISTORS	RES 5K1 1/8W	1	R50
UB RC-562JW8-MLT-01	RESISTORS	RES 5K6 1/8W	2	R34, R22
UB RC-683JW8-MLT-01	RESISTORS	RES 68K 1/8W	3	R18, R19, R21
UB RC-751JW8-MLT	RESISTORS	RES 750 1/8W	1	R14
UB RN1802JW8-MLT	RESISTORS	RES MF 18K 1/8W	2	R5, R6
UB RN2401JW8-MLT	RESISTORS	RES MF 2K4 1/8W	2	R701, R801
UB RN4701JW8-MLT-01	RESISTORS	RES MF 4K7 1/8W	5	R9, R10, R11, R12, RP7
UB RN7501JW8-MLT	RESISTORS	RES MF 7K5 1/8W	1	RP11
UB RN9102JW8-MLT	RESISTORS	RES MF 9K1 1/8W	1	RP13
UB RN3902JW8-MLT-01	RESISTORS	RES MF39K 1/8W	2	RP45, RP10
UB RN4702JW8-MLT-02	RESISTORS	RES MF47K 1/8W	4	R901, R902, R903, R904
UB RSG-1001-WT	SILICON TUBE	Φ1.0 * 10mm WHITE	22	
UB RSG-2010-BT-01	SILICON TUBE	Φ2.0 * 10mm	16	
UB SW-PL22X-07	SWITCH	2P2T L=6mm	1	SW2,
UB SW-PL23X-004	SWITCH	2P3T SK-23E01 6mm	1	SW1,
UB PB-50RN-03-07	TERMINAL	3P BLACK / GOLD PLATE	1	T1,
UB PB-50RN-04-05	TERMINAL	4P BLACK / GOLDEN PLATE JSZ4-50	1	T2
UB TMS-PTD103-002	THERMISTOR	-10K	1	TH1
UB BYQ-1204-16	TRANSFORMER	Φ37 04:16:00 AM	1	TR1
UB ST1-2N5401H	TRANSISTOR	2N5401	3	Q1, Q7, Q8
UB ST1-2N5551H-01	TRANSISTOR	2N5551	8	Q2, Q3, Q4, Q5, Q6, Q22, Q23,
UB ST1-0A1266H-01	TRANSISTOR	A1266	3	QP1, QP3, QP4
UB ST1-00B647H-01	TRANSISTOR	B647	2	QP11, QP13
UB ST1-0C3198H-01	TRANSISTOR	C3198	2	QP12, QP2
UB ST1-00D667T-01	TRANSISTOR	D667	1	QP14
UB ST1-0A1941H-01	TRANSISTOR	A1941 TO-3P	4	Q18, Q19, Q20, Q21
UB ST1-0B649AH-01	TRANSISTOR	B649A	2	Q9, Q13
UB ST1-0C3421H-01	TRANSISTOR	C3421	1	Q11

Part No.	Description	Specification	Q'ty	Location No.
UB ST1-0C5198H-01	TRANSISTOR	C5198	4	Q14, Q15, Q16, Q17
UB ST1-0D669A-01	TRANSISTOR	D669A	2	Q10, Q12
UB DR-D01620CA-T	ULTRA-FAST RECO	U16C20A	1	DP9
UB DR-D01620CC-T	ULTRA-FAST RECO	U16C20C	1	DP10
UB VR-R2B203-020	VR	B20K*2 L=15mm D=13mm	1	VR1,
UB VR-R2C503-016	VR	C50K*2 L=15mm D=13mm	1	VR2,
UB DZ-150S215W2T-02	ZENER	15V 1/2W	3	ZD3, ZD4, ZD5
UB DZ-560S256W5T	ZENER	56V 1/2W	2	ZD1, ZD2