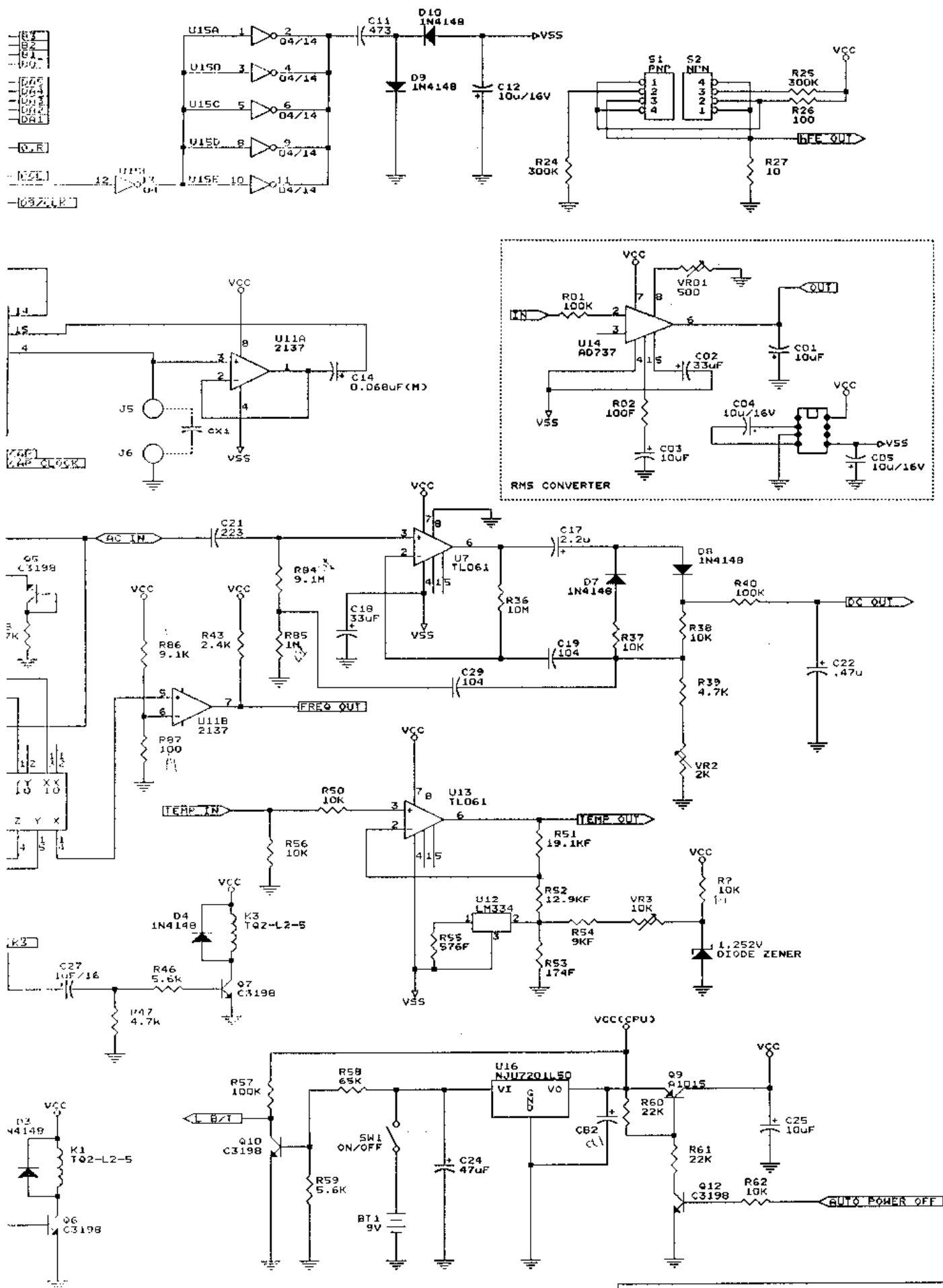
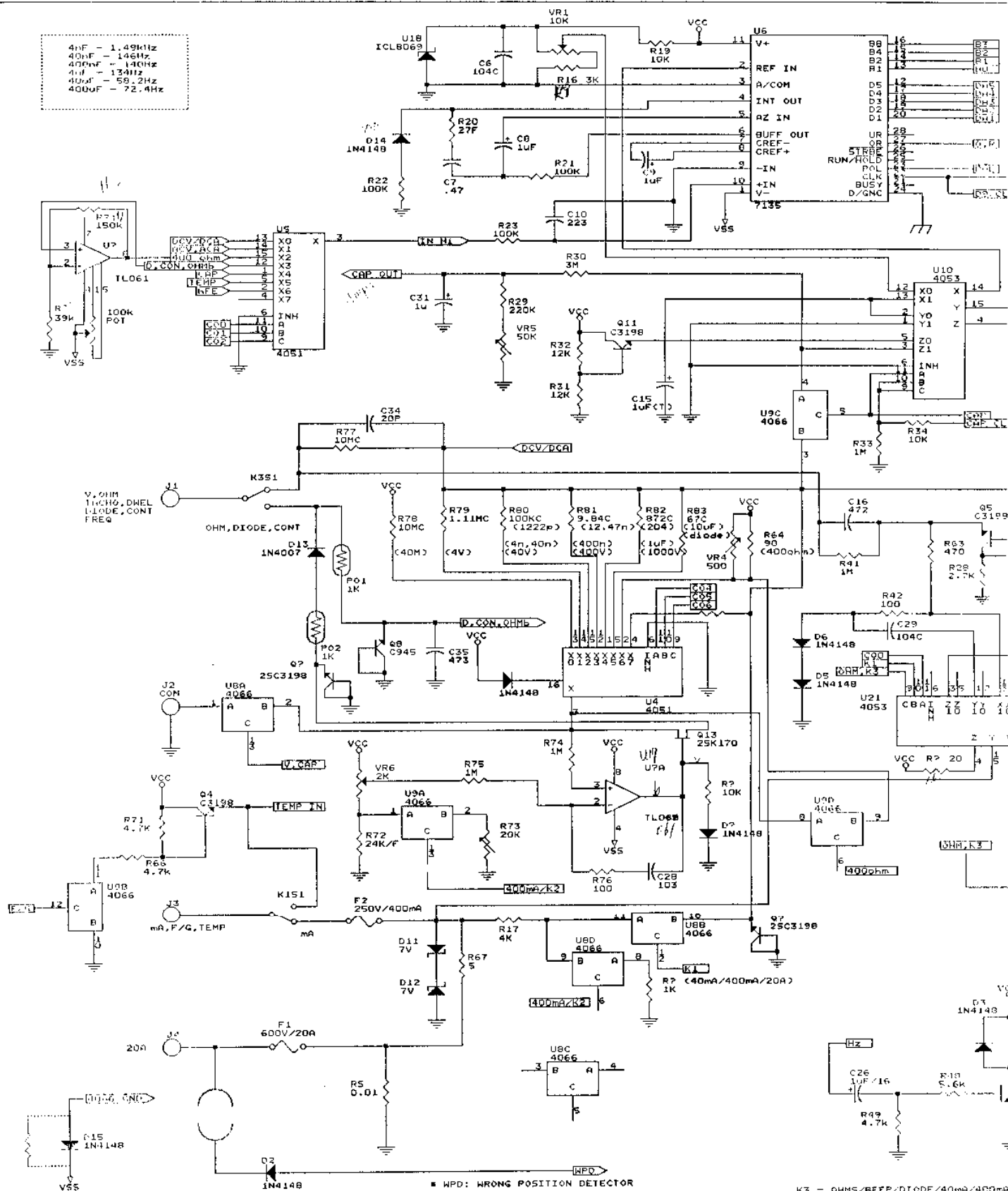
[illegible]



4nF - 1.49kHz
 40nF - 146Hz
 400nF - 140Hz
 4μF - 130Hz
 40μF - 59.2Hz
 400μF - 72.4Hz



WPD: WRONG POSITION DETECTOR

K3 = OHMS/BEEP/DIODE/40mA/400mA
 /K3 = Vdc/Vac/CAP/TEMP/F,G-Hz-H

MODEL		WENS 52 (V6650)		PART LIST		P/L No.		1 / 11		COMP		CHECK		APPR	
COMMODITY				(SOURCE :)		DATE		10 / 10 / 1998							
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT			AMOUNT		REMARK						
				Q'TY	PRICE	Q'TY	PRICE								
1	U3	CPU	KS57C2616 (WENS 50)	1					SAMSUNG						
2	U1,2	OCTAL BUFFER	HC373M (H : 8mm)	2											
3	U4,5	ANALOG S/V	NJU4051BM	2					JRC						
4	U6	A/D CONVERTER	ICL7135CPL	1					HARRIS						
5	U7,13,17	OP AMP	TL061M	3											
6	U8,9	ANALOG S/W	NJU4066BM	2					JRC						
7	U10	ANALOG S/W	NJU4053BM	1					JRC						
8	U12	CURRENT LIMIT	LM334	1											
9				1											
10	U15	HEX INVERTER	74HC04M	1											
11	U16	REGULATOR	7201U50	1					JRC						
12	U11	OP AMP	NJU2137M	1					JRC						
13	U18	BAND GAP DIODE	ICL8069CPL	1					HARRIS						
14															
15	Q13	FET	2SK170	1											
REVISED :															
										UNIT	AMOUNT				
										SUB TOTAL					
										TOTAL					

MODEL		WENS 52		PART LIST				P/L No.		2 / 11		COMP	CHECK	APPR
COMMODITY				(SOURCE :)				DATE		10 / 10 / 1998				
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		Q'TY		PRICE	Q'TY	PRICE	REMARK	
16	Q1,2,6,7,10,11,12	TRANSISTOR	2SC2412K (SMD)	7										
17	Q4,9,	TRANSISTOR	2SA1015(1266)	2										
18	Q8	TRANSISTOR	2SC948 (2SC3198)	1										
19	PC1	PHOTO COUPLER	TLP 721,or KPI010A	1										
20	X2	CRYSTAL	4.19MHz (BOX)	1										
21	BZ	PIEZOR BUZZER	27 dia	1									대성전자	
22	LCD	LCD	WENS 51 (reflective type)	1										
23	PTC	PTC	1K 8mA	1										
24	D1,2,3,4,5,6,8,9,10,11,12,13	SWITCHING DIODE	1N4148(melf type)	12										
25	D7	RECTIFIER DIODE	1N4007	1										
26	ZD1,2	ZENER DIODE	7.2V 1/4W (melf)	2										
27	K1	RELAY	TQ2-L2-5V	1									NAIS	
28	VR1,2,6	SEMI-VOLUM	2K (H) DC,AC,OHM	3										
29	VR3	SEMI-VOLUM	10K (H) temp,	1										
30	VR5	SEMI-VOLUM	200K (H) CAP	1										
REVISED :														
										UNIT		AMOUNT		
										SUB TOTAL				
										TOTAL				

MODEL		WENS 52		PART LIST				P/L No.		3 / 11		COMP		CHECK		APPR	
COMMODITY				(SOURCE :)				DATE		10 /10 /1998							
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		REMARK									
				Q'TY	PRICE	Q'TY	PRICE										
31																	
32																	
33	C1	CERAMIC CAPACITOR	pF 50V ()														
34	C2,3	CERAMIC CAPACITOR	15pF (2012)	2													
35	C4	CERAMIC CAPACITOR	1200pF 50V ()														
36	C5,6,19,20,29	CERAMIC CAPACITOR	0.1uF (2012)	5													
37	C7	METAL CAPACITOR	0.47uF 63V	1													
38	C8,9	Tantal Capacitor	1uF 16V	2													
39	C10	METAL CAPACITOR	0.068uF 63V	1													
40	C11,33	CERAMIC CAPACITOR	0.047uF (2012)	2													
41	C12	ELECTRO CAPACITOR	10uF / 16V	1													
42	C13	CERAMIC CAPACITOR	0.015uF 50V ()	1													
43	C14,26,27,31	ELECTRO CAPACITOR	1uF 16V	4													
44	C15,17,22	ELECTRO CAPACITOR	2.2uF 16V	3													
45	C16	METAL CAPACITOR	0.0047uF 400V	1													
REVISED :																	
												UNIT		AMOUNT			
												SUB TOTAL					
												TOTAL					

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WENS Precision Co.,Ltd.

MODEL		WENS 52		PART LIST				P/L No.		4 / 11		COMP		CHECK		APPR	
COMMODITY				(SOURCE :)				DATE		10 /10 /1998							
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		REMARK									
				Q'TY	PRICE	Q'TY	PRICE										
46	C18	ELEC CAPACITOR	33uF 16V	1													
47	C21	CERAMIC CAPACITOR	0.022uF (2012)	1													
48	C23	CERAMIC CAPACITOR	12pF 50V ()	1													
49	C24	ELECTRO CAPACITOR	33uF 16V	1													
50	C25	ELECTRO CAPACITOR	10uF 16V	1													
51	C28	CERAMIC CAPACITOR	0.01uF (2012)	1													
52	C30	CERAMIC CAPACITOR	470pF 50V ()	1													
53	C32	CERAMIC CAPACITOR	0.1uF 50V ()	1													
54	C38	CERAMIC CAPACITOR	0.068uF 50V ()	1													
55	C39	CERAMIC CAPACITOR	150pF 50V ()	1													
56	J1	jump wire	12 # 40mm (10 * 5)	1													
57																	
58			2K 1/8W J (2012)	1													
59	R57	CARBON RESISTOR	100K 1/8W J (2012)	1													
60	R2,5,6,21,22,23,40,45	CARBON RESISTOR	100K 1/8W J (2012)	8													
REVISED :									UNIT		AMOUNT						
									SUB TOTAL								
									TOTAL								

MODEL		WENS 52		PART LIST					P/L No.	5 / 11		COMP	CHECK	APPR	
COMMODITY				(SOURCE :)					DATE	10 /10 /1998					
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		REMARK							
				Q'TY	PRICE	Q'TY	PRICE								
61	R3,7,10,28,39,46,47,48	CARBON RESISTOR	47K 1/8W J (2012)	8											
62	R4,18	CARBON RESISTOR	1K 1/8W J (2012)	2											
63	R8,19,34,37,38,50,56,62	CARBON RESISTOR	10K 1/8W J (2012)	8											
64	R11,13	CARBON RESISTOR	15K 1/8W J (2012)	2											
65	R12,14,54,68	CARBON RESISTOR	9.1K 1/8W J (2012)	4											
66	R15	CARBON RESISTOR	680 1/8W J (2012)	1											
67	R9	CARBON RESISTOR	3K 1/8W J (2012)	1											
68	R20	CARBON RESISTOR	27 1/8W J (2012)	1											
69	R24,25	CARBON RESISTOR	300K 1/8W J (2012)	2											
70	R26,76	CARBON RESISTOR	100 1/8W J (2012)	2											
71	R27	CARBON RESISTOR	10 1/8W J (2012)	1											
72	R29	CARBON RESISTOR	91K 1/8W J (2012)	1											
73	R30,33,44,74,75	CARBON RESISTOR	1M 1/8W J (2012)	5											
74	R31,32	CARBON RESISTOR	12K 1/8W J (2012)	2											
75	R35	CARBON RESISTOR	9M 1/8W J (2012)	1											
REVISED :															
												UNIT	AMOUNT		
												SUB TOTAL			
												TOTAL			

MODEL		WENS 52		PART LIST				P/L No.		7 / 11		COMP	CHECK	APPR
COMMODITY				(SOURCE :)				DATE		10 / 10 / 1998				
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		REMARK						
				Q'TY	PRICE	Q'TY	PRICE							
91	R69	CARBON RESISTOR	270 1/8W (2012)	1										
92	R72	CARBON RESISTOR	24K 1/8W (2012)	1										
93	R73	METAL RESISTOR	17.4K 1/8W (2012)	1										
94	R77	METAL GRAZE	10M 1/2W C	1										
95	R78	METAL RESISTOR	10M 1/4W C	1										
96	R79	METAL RESISTOR	1.11M 1/4W C	1										
97	R80	METAL RESISTOR	101K 1/4W C	1										
98	R81	METAL RESISTOR	9.88K 1/4W C	1										
99	R82	METAL RESISTOR	872 1/4W C	1										
100	R65	CARBON RESISTOR	6.8K 1/8W (2012)	1										
101	RS	SHUNT WIRE	WENS 92008	1										
102														
103	INPUT SOCKET		4.5×17	3				대경산업						
104	INPUT SOCKET		4.5×17(SEMICIRCLE)	2				대경산업						
105	S5	RS232 SOCKET	6 PIN 8.0mm RIGHT ANGLE	1										
REVISED :														
												UNIT	AMOUNT	
												SUB TOTAL		
												TOTAL		
WENS Precision Co														

WENS Precision Co.,Ltd.

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MODEL		WENS 52		PART LIST				P/L No.		8 / 11		COMP	CHECK	APPR
COMMODITY				(SOURCE :)				DATE		10 / 10 / 1998				
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		Q'TY		PRICE	Q'TY	PRICE	REMARK	
106	SW1	PUSH LOCK	SW2211	1										
107	SW2	RUBBER SW	WENS 50 (51), (52,53)	1									원대산업	
108	SP	SHIELD PLATE	AL 0.3t	1										
109	SPRING1	SHIELD SPRING	WENS 9400-8	1									삼원공업	
110	SPRING2	BUZZER CONTACTOR	WENS51-8	2									삼원공업	
111	SCREW1	SWITCH PCB	2.6×5 TAPPING 2층	6										
112	SCREW2	LCD HOUSING	3.0×6 TAPPING 2층	4										
113	SCREW3	CASEING	M3 * 5 * 4 (BLACK)	3									대경산업	
114	INSERT	INSERT	4.5 * 18 (M3 * 0.5P)	3									태원정밀	
115	TOP PLATE		71.8×106.3	1										
116	SPONGE	BATTERY		1										
117	SERIAL NUMBER			1										
118	BS	BATTERY SNAP	120mm "T" TYPE	1										
119	PCBM	PCB (HOT SOLDER)	FR4 1.6t 79mm * 153mm	1									거성산업	
120	PCBS	PCB (GOLD)	X-PC 1.2t 68mm * 71mm	1									거성산업	
REVISED :														
										SUB TOTAL		UNIT	AMOUNT	
										TOTAL				

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WENS Precision Co.,Ltd.

MODEL		WENS 52	PART LIST		P/L No.	9 / 11		COMP	CHECK	APPR
COMMODITY			(SOURCE :)		DATE	10 /10 /1998				
No.	CODE No.	DESCRIPTION	SPECIFICATION		UNIT		AMOUNT		REMARK	
					Q'TY	PRICE	Q'TY	PRICE		
121										
122	FUSE1	FUSE	500mA/250V (5 * 20) GLASS		1					
123	FUSE2	FUSE	20A / 250V (6.3 * 32) CERAMIC		1					
124	FH	FUSE HOLDER	20A용		2				대경산업	
125	FH	FUSE HOLDER	500mA용		2				대경산업	
126	사출	BOTTOM CASE	ABS 3DMM		1					
127		WINDOW	ACRYL		1					
128		LCD HOUSING	ABS 3DMM		1					
129		LCD COVER	ABS 3DMM		1					
130		STAND	ABS 3DMM		1					
131		INPUT HOLDER	ABS 3DMM RED		3					
132		INPUT HOLDER	ABS 3DMM		1					
133		TOP CASE	ABS 3DMM		1					
134		HOLE COVER	ABS 3DMM		4					
135										
REVISED :										
							UNIT		AMOUNT	
							SUB TOTAL			
							TOTAL			

MODEL		WENS 52		PART LIST				P/L No.		10 / 11		COMP	CHECK	APPR
COMMODITY				(SOURCE :)				DATE		10 /10 /1998				
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		REMARK						
				Q'TY	PRICE	Q'TY	PRICE							
136	포장재	BOX	3 DMM용	1										
137		PAD	3 DMM용	1										
138		MANUAL	3 DMM용	1										
139		SILICAGEL		1										
140		TEST LEAD	UL TYPE	1										
141														
142		TEMP PROBE	K - TYPE	1										
143		TEMP SOCKET	WENS STD	1										
144														
145														
146														
147														
148														
149														
150														
REVISED :														
										UNIT		AMOUNT		
										SUB TOTAL				
										TOTAL				

MODEL	WENS 52	<u>PART LIST</u>			P/L No.	11 / 11		COMP	CHECK	APPR
COMMODITY		(SOURCE :)			DATE	10 /10	/1998			
No.	CODE No.	DESCRIPTION	SPECIFICATION	UNIT		AMOUNT		REMARK		
				Q'TY	PRICE	Q'TY	PRICE			
151		DISKET	OS PROGRAM (3DMM)	1						
152		RS232 CABLE	3 DMM용	1				진아산업		
153		TR SOCKET	CAN TYPE	1				코치무역		
154		CAPACITOR SOCKET	5 PIN 20mm LEAD TYPE	1						
155		PIN SOCKET	7 PIN 5.8mm SINGLE	1						
156		PIN HEADER	7 PIN SINGLE	1						
157		ZEBRA	67 * 14 * 13	2						
158		FUSE STICKER		1						
159										
160										
161										
162										
163										
164										
165										
REVISED :										
					UNIT		AMOUNT			
					SUB TOTAL					
					TOTAL					