

## RESISTORS

R1, R61	470k	R51, R111	15k	R168	1k2 (5w)
R2, R62	27R	*R52, R112	22k(2w)	R169	1k2
-		R53, R113	100R	R170	6k8(2w)
R4, R64	56k	*R54, R114	220R	R171	10R (2w)
-		*R55, R115	100R	R172	10R (2w)
-		R56, R116	3k3	R173	10R (2w)
R7, R67	56k	R57, R117	1k	R174	10R (2w)
R8, R68	3k3	R58, R118	120k	R175	10R (2w)
R9, R69	330R	*R59, R119	330R	R176	10R (2w)
R10, R70	56R	*R60, R120	330R	R177	10R (2w)
R11, R71	10k	-		R178	10R (2w)
R12, R72	3k3	R122, R145	100R	R179	100k
*R13, R73	56R	R123, R146	47k	R180	1M8
*R14, R74	100R	R124, R147	470k	R181	1M8
R15, R75	3k3	R125, R148	470k	R182	10k
R16, R76	15k	R126, R149	4R7	R183	22k
*R17, R77	330R	R127, R150	56k	R184	1k2 (5w)
+ R18, R78	15k	R128, R151	3k3		
*R19, R79	330R	R129, R152	560R		
R20, R80	470R	R130, R153	6k8		
R21, R81	100R	*R131, R154	56R		
R22, R82	68k	R132, R155	3k3		
R23, R83	470k	*R133, R156	100R		
R24, R84	470k	R134, R157	3k3		
R25, R85	4R7	R135, R158	100R		
R26, R86	47k	R136, R159	100R		
R27, R87	3k3	R137, R160	10R		
R28, R88	5k6	R138, R161	10R		
R29, R89	15k	R139, R162	470R(5w)		
*R30, R90	22k(2w)	R140, R163	3k3		
R31, R91	100R	R141, R164	47k		
R32, R92	220R	R142, R165	10R		
R33, R93	3k3	R143, R166	10R		
+ R34, R94	100R	-			
R35, R95	39k	R188, R192	27k		
*R36, R96	330R	R190, R195	10k		
R37, R97	100k	R191, R196	22k		
R38, R98	2k2	R193, R197	1k		
R39, R99	330R	R200	1k2(5w)		
*R40, R100	330R	R201, R202	10k		
R41, R101	100R				
R42, R102	1k				
R43, R103	68k				
R44, R104	470k				
R45, R105	470k				
R46, R106	4R7				
R47, R107	47k				
R48, R108	3k3				
R49, R109	1k2				
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## NOTES

1. ALL 1/3W METAL FILM UNLESS SHOWN OTHERWISE.
2. \* MOUNTED ABOVE SURFACE OF PCB.

## CAPACITORS

C1, C48	0.01µF	250V	C95, C112	0.47µF	WIMA
C2, C49	1µF	WIMA	C96, C113	0.1µF	WIMA
-			C97, C114	47pF	CERAMIC
C4, C51	100pF	WIMA	C98, C115	220µF	ELEC. 50V
C5, C52	470µF	ELEC 16V	C99, C116	15pF	CERAMIC
C6, C53	22pF	CERAMIC	C100, C117	15pF	CERAMIC
C7, C54	33pF	CERAMIC	C101, C118	22pF	CERAMIC
C8, C55	10pF	CERAMIC	C102, C119	0.1µF	WIMA
C9, C56	100µF	ELEC 50V	C103, C120	100pF	WIMA
C10, C57	100µF	ELEC 50V	C104, C121	1µF	WIMA
C11, C58	0.1µF	WIMA	C105, C122	1µF	WIMA
C12, C59	0.1µF	WIMA	C106, C123	1µF	WIMA
C13, C60	100pF	CERAMIC	C107, C124	1µF	WIMA
C14, C61	2700pF	WIMA	C108, C125	100µF	ELEC 50V
C15, C62	0.47µF	WIMA	C109, C126	100µF	ELEC 50V
C16, C63	0.1µF	WIMA	C110, C127	0.1µF	WIMA
C17, C64	47pF	CERAMIC	C111, C128	0.1µF	WIMA
C18, C65	100µF	ELEC 50V	C129	100µF	ELEC 50V
C19, C66	6.8pF	CERAMIC	C130	4700µF	ELEC 50V
C20, C67	10pF	CERAMIC	C131	4700µF	ELEC 50V
C21, C68	0.1µF	WIMA	C132	4700µF	ELEC 50V
C22, C69	10pF	CERAMIC	C133	4700µF	ELEC 50V
C23, C70	47µF	ELEC 100V	C134	4700µF	ELEC 50V
C24, C71	47µF	ELEC 100V	C135	4700µF	ELEC 50V
C25, C72	0.1µF	WIMA	C136	4700µF	ELEC 50V
C26, C73	0.1µF	WIMA	C137	4700µF	ELEC 50V
C27, C74	0.12µF	POLY	C138	4700µF	ELEC 50V
C28, C75	2700pF	WIMA	C139	4700µF	ELEC 50V
-			C140	4700µF	ELEC 50V
-			C141	4700µF	ELEC 50V
-			-		
C32, C79	0.47µF	WIMA	C143	1000pF	WIMA
C33, C80	0.1µF	WIMA	C144	4700pF	CERAMIC
C34, C81	470pF	CERAMIC	C145	1.5µF	WIMA
C35, C82	100µF	ELEC 50V	C146	4700pF	CERAMIC
C36, C83	10pF	CERAMIC	C147	0.1µF	WIMA
C37, C84	10pF	CERAMIC	C148	22µF	ELEC 100V
C38, C85	0.1µF	WIMA	-		
C39, C86	10pF	CERAMIC	C150	220µF	ELEC 50V
C40, C87	47µF	WIMA	C151	100µF	ELEC 50V
-			C152	0.1µF	WIMA
-			C153	0.1µF	WIMA
-			C154	220µF	ELEC 50V
C44, C91	47µF	ELEC 100V	C155	220µF	ELEC 50V
C45, C92	47µF	ELEC 100V	C156, C157	FSV	
C46, C93	0.1µF	WIMA			
C47, C94	0.1µF	WIMA			

FSV- FACTORY SELECTED VALUE.

## SEMI CONDUCTORS.

D1, D2, D3, D4 IN4148  
 D8, D9, D13, D14 IN4148  
 D15, D16, D17, D18, D19, D20, D21, D22, D23, D24 IN4004.

Q1, Q16	JE 9092-1	Q31, Q38	JE 9092-3
Q2, Q17	JE 9092-1	Q32, Q39	JE 9092-3
Q3, Q18	JE 9042-1	Q33, Q40	JE 9042-3
Q4, Q19	JE 9042-1	Q34, Q41	JE 9042-3
Q5, Q20	JE 9092-1	Q35, Q42	JE 9092-3
Q6, Q21	JE 9092-2	Q36, Q43	VPO 116N2
Q7, Q22	JE 9092-2	Q37, Q44	YNO 116N2
Q8, Q23	JE 9042-2		
Q9, Q24	JE 9042-2	Q45	JE 9092-2 (PSLP-4)
Q10, Q25	JE 9092-2	Q46	JE 9042-2 (PSLN-4)
Q11, Q26	JE 9092-2		
Q12, Q27	JE 9092-2		
Q13, Q28	JE 9042-2		
Q14, Q29	JE 9042-2		
Q15, Q30	JE 9092-2		

IC1 MOTOROLA MC14093 or EQUIV.

ZD1, ZD4 6.8V  
 ZD2, ZD5 9.1V  
 ZD3, ZD6 9.1V  
 ZD7 3.4V  
 ZD8 9.1V  
 ZD9 9.1V

BR1, BR2 W02-S

RV1 VOLUME 50k  
 RV2 BALL. 50k  
 RV10, RV12 PRESET 2k

TPR1, TPR2, TPR5, TPR6, 1k

TRANSFORMER T1 TXTD83.

RELAYS RL1, RL2 NEC MR62-24S 24V.

F1, F2, F3, F4 250mA  
 F5 1A.

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