

Designator	Part Type	Footprint	Description	
C1	0.1uF	CAP 100		
C10	.1uF			
C11	.1uF			
C12	.1uF			
C13	.1uF			
C14	100uF			
C15	47uF			
C16	47uF			
C17	47uF			
C18	0.1uF	CAP 100		
C19	33uF	CAP 100 ROUND		
C2	0.1uF	CAP 100		
C20	0.1uF	CAP 100		
C3	0.1uF	CAP 100		
C4	10uF/16V/e	CAP 100 ROUND POL		
C5	10uF/16V/e	CAP 100 ROUND POL		
C6	10uF/16V/e	CAP 100 ROUND POL		
C7	10uF/16V/e	CAP 100 ROUND POL		
C8	10uF/16V/e	CAP 100 ROUND POL		
C9	.1uF			
D1	1N4148			
D10	SF34	DIODE SF34		
D11	SF34	DIODE SF34		
D12	SF34	DIODE SF34		
D13	SF34	DIODE SF34		
D2	1N4148			
D3	1N4148			
D4	1N4148			
D5	1N4148			
D6	SF34	DIODE SF34		
D7	SF34	DIODE SF34		
D8	SF34	DIODE SF34		
D9	SF34	DIODE SF34		
J1	MEMORY CON			
J2	ANALOG INPUTS			
J3	DIGITAL IO			
J4	DB9 CON	DB9		
J5	LCD CONNECTOR			
J6	MOTOR CON			
J6	POWER CONECTOR			
LD1	LED			
LD2	LED			
OSC1	OSC TTL		Oscilador TTL	
POT1	4K7			
Q1	NPN			
Q2	NPN			
Q3	NPN			
Q4	NPN			
R1	1K	AXIAL0.4		
R10	10K	AXIAL0.4		
R11	100K			
R12	100K			
R13	820			
R14	10K			
R15	0.5R/1W	AXIAL0.4		
R16	0.5R/1W	AXIAL0.4		
R17	330R	AXIAL0.4		
R18	330R	AXIAL0.4		
R19	47K	AXIAL0.4		
R2	1K	AXIAL0.4		
R20	47K	AXIAL0.4		
R3	1K	AXIAL0.4		
R4	1K	AXIAL0.4		
R5	100K	AXIAL0.4		
R6	100K	AXIAL0.4		
R7	100K	AXIAL0.4		
R8	100K	AXIAL0.4		
R9	100K	AXIAL0.4		
RP1	10K			

RP2	10K			
S1	RESET SWITCH	SWITCH		
S2	IRQ SWITCH	SWITCH		
S3	POWER SW			
U1	93LC66	DIP8	Memória serial microwire	
U2	PIC16F877-20/P	DIP40	40-Pin FLASH EPROM-Based 8-Bit CMOS Microco	
U3	MAX232ACPE(16)	DIP16	+/-15KV ESD-PROTECTED, +5V RS-232 TRANSC	
U4	7805	TO220		
U5	7812	TO220		
U6	L298N(15)	ZIP-15H	Dual Full Bridge Driver	
U7	MC74HC04	DIP14	Hex Inverters	