



Comment	Description	Designator	LibRef	Quantity	Value
Motor	Servo Motor	B1	Motor Servo	1	
Buzzer_5V	Buzzer_5V	BZ1	Buzzer_5V	1	
Сар	Capacitor	C1, C2, C3, C4, C5, C6	Сар	6	0.1uF
	1 Amp General				0.141
Diode 1N4001	Purpose Rectifier 3 Amp General	D2	Diode 1N4001	1	
Diode 1N5400	Purpose Rectifier	D3	Diode 1N5400	1	
	14.2 mm General Purpose Blue 7- Segment Display:				
Dpy Blue-CA	CA, RH DP, Gray Surface	DS1	Dpy Blue-CA	1	
		DS3, DS6, DS7, DS8, DS9, DS10, DS11, DS12, DS13,			
RLED	LED RED RADIAL	DS14	LED_IR	10	
ALED	LED RED RADIAL	DS4	LED_IR	1	LED RED
GLED	LED RED RADIAL	DS5	LED_IR	1	LED RED
LED IR	LED IR 5mm EMITTER IR 940NM 100MA RADIAL	DS15	LED_IR	1	TSAL6100
PEC11R-4215F- S0024	Rotary Encoder Mechanical 24 Quadrature _Incremental_	ENC1	PEC11R-4215F- S0024	1	
Keypad 4X4 Matrix	Vertical Keypad 4X4 Matrix	KY1		1	
16 x 2 Character	16 x 2 Character	NII	Keypad 4X4 Matrix	'	
LCD	LCD 1602A	LCD1	LCD_16x2_1602A	1	
PhotCell	Phot Cell - LDR	LR1	Photo Cell (LDR)	1	
Header 3	Header, 3-Pin	P1, P12	Header 3	2	
Header 4	Header, 4-Pin	P2	Header 4	1	
Header 8	Header, 8-Pin	P3, P5, P6	Header 8	3	
Header 10	Header, 10-Pin	P4	Header 10	1	
Header 6	Header, 6-Pin	P7	Header 6	1	
Header 8H	Header, 8-Pin, Right Angle	P8	Header 8H	1	
	TERMINAL BLOCK 5.08MM 2POS PCB				
TB-RC	Rising Clamp	P9, P10	TB-2_Rising Clamp	2	
Header 2	Header, 2-Pin	P11	Header 2	1	
Photo NPN	NPN Phototransistor	Q1	Photo NPN	1	
IRF540N	N-Channel Power MOSFET	O2	NMOS-2	1	
	NPN General				
2N3904	Purpose Amplifier	Q3	2N3904	1	
RPot	Potentiometer Semiconductor	R1	RPot	1	10K
Res Semi	Resistor	R2, R3, R4, R5, R6, R7, R8, R9	Res Semi	8	1K
	Semiconductor	R10, R11, R12, R13, R14, R15, R16, R17, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38,			
Res Semi	Resistor	R48, R50 R18, R20, R21,	Res Semi	23	10K
Res Semi	Semiconductor Resistor	R22, R39, R40, R41, R42, R43, R44, R45, R46, R47	Res Semi	13	330R
Res Semi	Semiconductor Resistor	R19, R49	Res Semi	2	100R
Res Semi	Semiconductor Resistor	R51	Res Semi	1	56K
SW-PB_12x12	SWITCH TACTILE SPST-NO 0.05A 12V 12x12	\$1, \$2	SW-PB_12x12	2	
Plug	Plug	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	Plug	8	
MC74HC595AN	B-Bit Serial- Input/Serial or Prallel-Output Shift Register with Latched 3-State Outputs	U1	MC74HC595AN	1	
	16-Bit I/O Expander	U2	MCP23017-E/SP	1	