

GARAGE DOOR CODE FINDER

GARAGE DOOR OPENER

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FROM UUE, EXCLUSIVE.

THIS DEVICE WORKS ON ABOUT 90% OF ALL DOORS WE TRIED IT ON.

HOW IT WORKS:

U1 IS THE TIMER THAT SENDS A CLOCK SIGNAL OR CONSTANT BEAT INTO THE COUNTER CIRCUIT. THE COUNTER COUNTS THROUGH EVERY POSSIBLE CODE AND SENDS THESE CODES TO THE ENCODER CHIP U4. U4 ENCODES THESE SIGNALS INTO SERIAL CODE AND TRANSMITS IT INTO THE XMTR BOARD. LED D1 WILL GO ON WHEN THE COUNTING CYCLE IS FINISHED. IF THE CYCLE IS TOO FAST FOR THE TYPE OF GARAGE DOOR YOU ARE TRYING TO OPEN YOU MAY WANT TO SLOW DOWN THE CLOCK SO THE SIGNAL WILL TRANSMIT FOR A LONGER PERIOD OF TIME. TO DO THIS YOU WILL NEED TO REPLACE C1 WITH A HIGHER VALUE CAP LIKE A .47 OR 1UF CAP.

HOW TO USE IT:

TURN IT ON AND WAIT FOR ABOUT 7-10 MINUTES. THE DOOR SHOULD OPEN IF ALL IS CORRECT. RANGE SHOULD BE ABOUT 100-300FT.

ALL PARTS CAN BE OBTAINED FROM JAMECO, MOUSER AND DIGIKEY.

WE ALSO STOCK PARTS FOR THIS UNIT AND THE CAR ALARM DISARMER UNIT. EMAIL FOR ORDER INFO.

GARAGE DOORS OPERATE ON 310MHZ, VERY FEW OPERATE ON 390MHZ, IF SO YOU CAN RE-ADJUST THE TANK CIRCUIT ON THE XMTR. SOMETIMES JUST BY PLACING THE ANTENNA ON A CERTAIN PART OF THE FOIL INDUCTOR ON THE BOARD WILL CHANGE THE BANDWIDTH OR FREQUENCY. BW SHOULD BE 10MHZ. SO PLACE THE ANTENNA AT THE 50OHM POINT ON THE INDUCTOR. YOU MAY JUST FIND IT EASIER TO GET AN OLD GARAGE DOOR OPENER AND ATTACH PIN 17 OF U4 TO THE MOD INPUT OF THE OPENER.

USER INSTRUCTIONS / ASSEMBLY OF KIT

KIT ASSEMBLY:

YOU WILL NEED TO USE A SMALL LOW WATTAGE SOLDERING IRON AND ROSIN CORE SOLDER.

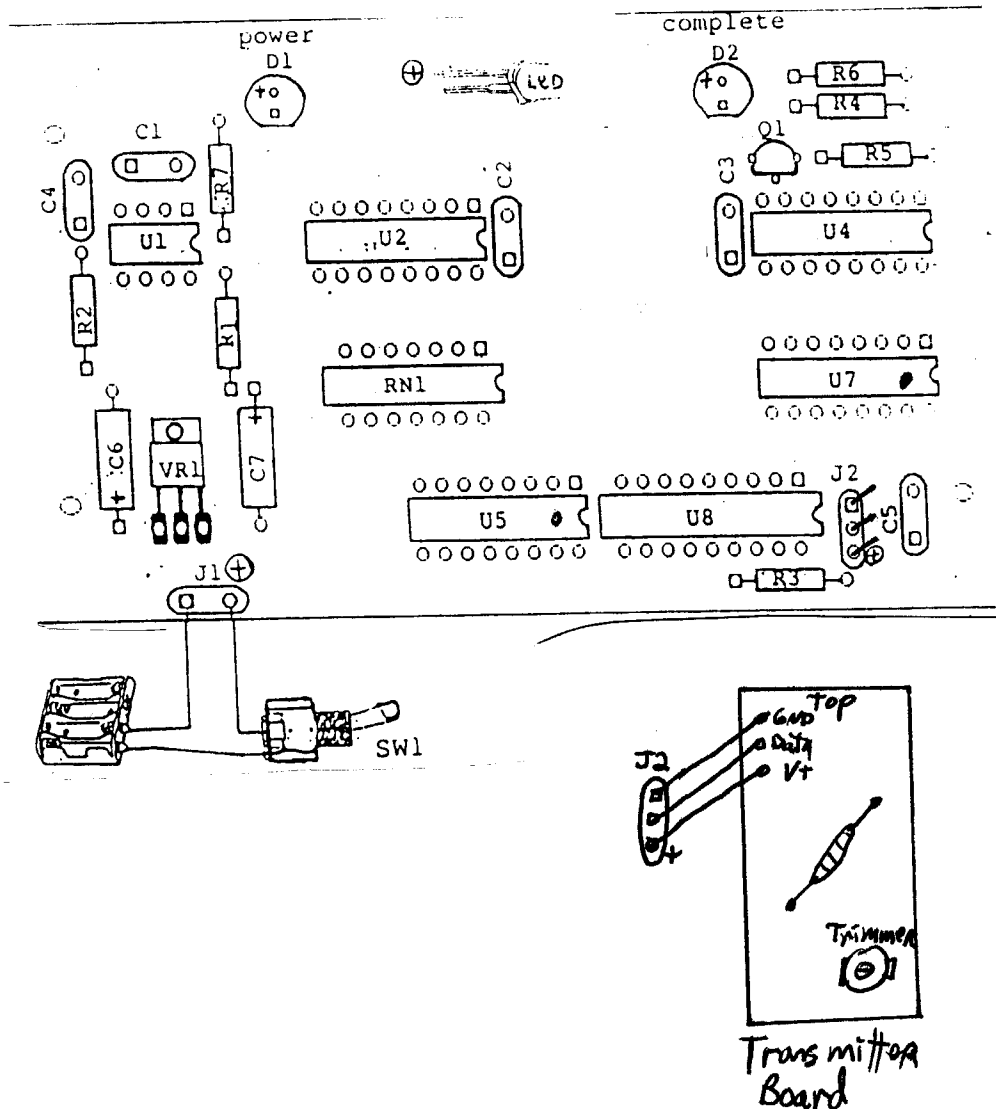
SOLDER THE IC'S ON THE BOARD FIRST, THEN THE CAPACITORS.

SOLDER THE CAPS AND TRANSISTOR, THEN THE WIRES/LEDS.

SOLDER THE TRANSMITTER ON LAST.

SEE PARTS LIST AND PARTS LAYOUT BELOW:

- C1 .22uf MULTI-FILM CAPACITOR
- C2 .01ufDISC CAPACITOR
- C3 .01ufDISC CAPACITOR
- C4 .01ufDISC CAPACITOR
- C5 .01ufDISC CAPACITOR
- C6 10uf ELECTRO CAPACITOR
- C7 1uf ELECTRO CAPACITOR
- D1 GREEN LED (POWER)
- D2 RED LED (COMPLETE)
- Q1 NPN TRANSISTOR
- R1 1K ohm RESISTOR
- R2 560K ohm RESISTOR
- R3 1.1M ohm RESISTOR
- R4 1K ohm RESISTOR
- R5 10K ohm RESISTOR
- R6 470 ohm RESISTOR
- R7 470 ohm RESISTOR
- RN1 1K RESISTOR NETWORK
- U1 TIMER IC
- U2 COUNTER IC
- U4 COUNTER IC
- U5 INTERFACE
- U7 INTERFACE
- U8 CODING IC
- VR1 5 volt REGULATOR
- SW1 POWER SWITCH
- BAT BATTERY ENCLOSURE
- TRA TRANSMITTER BOARD
- PC PC BOARD



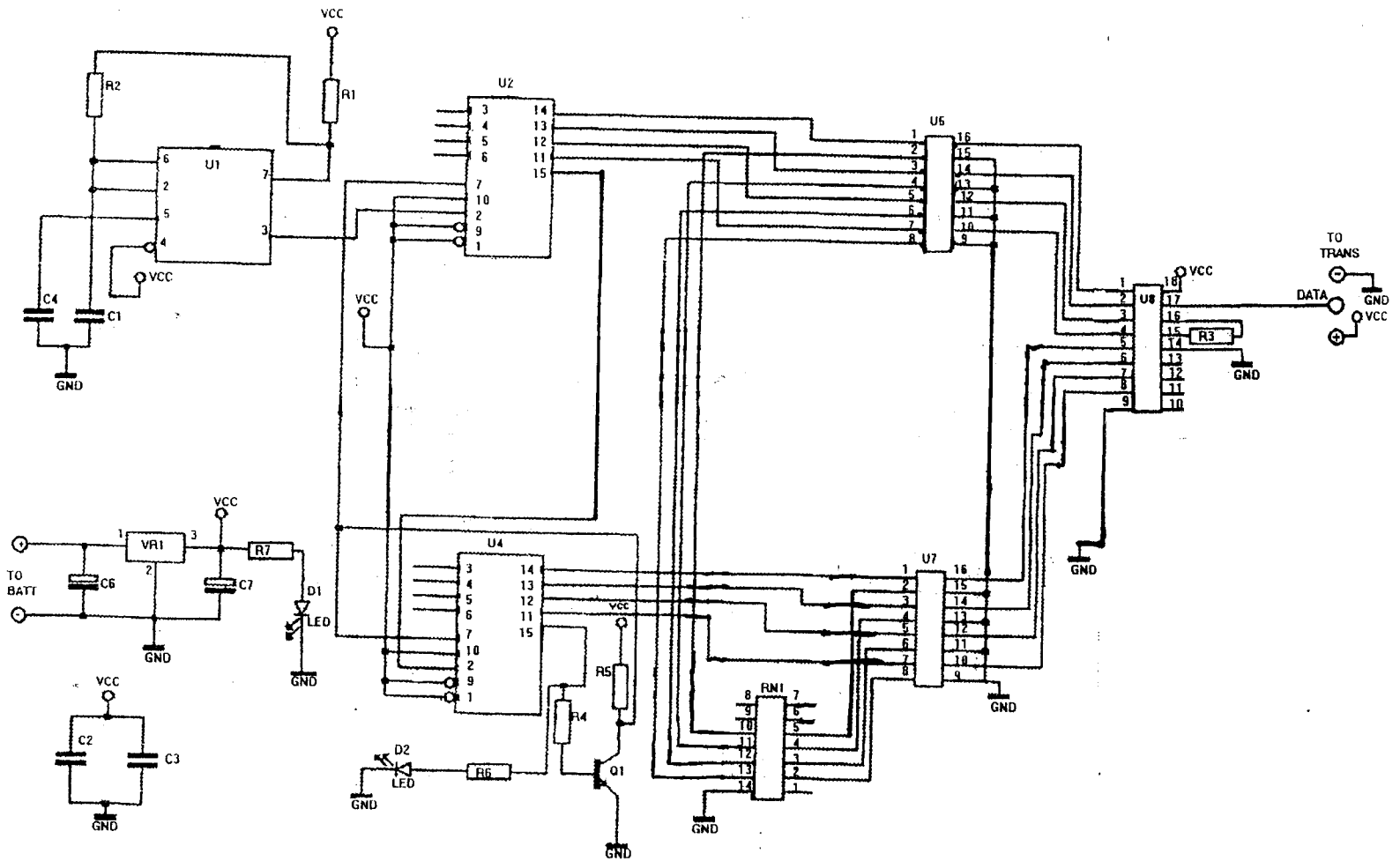
PARTS LIST

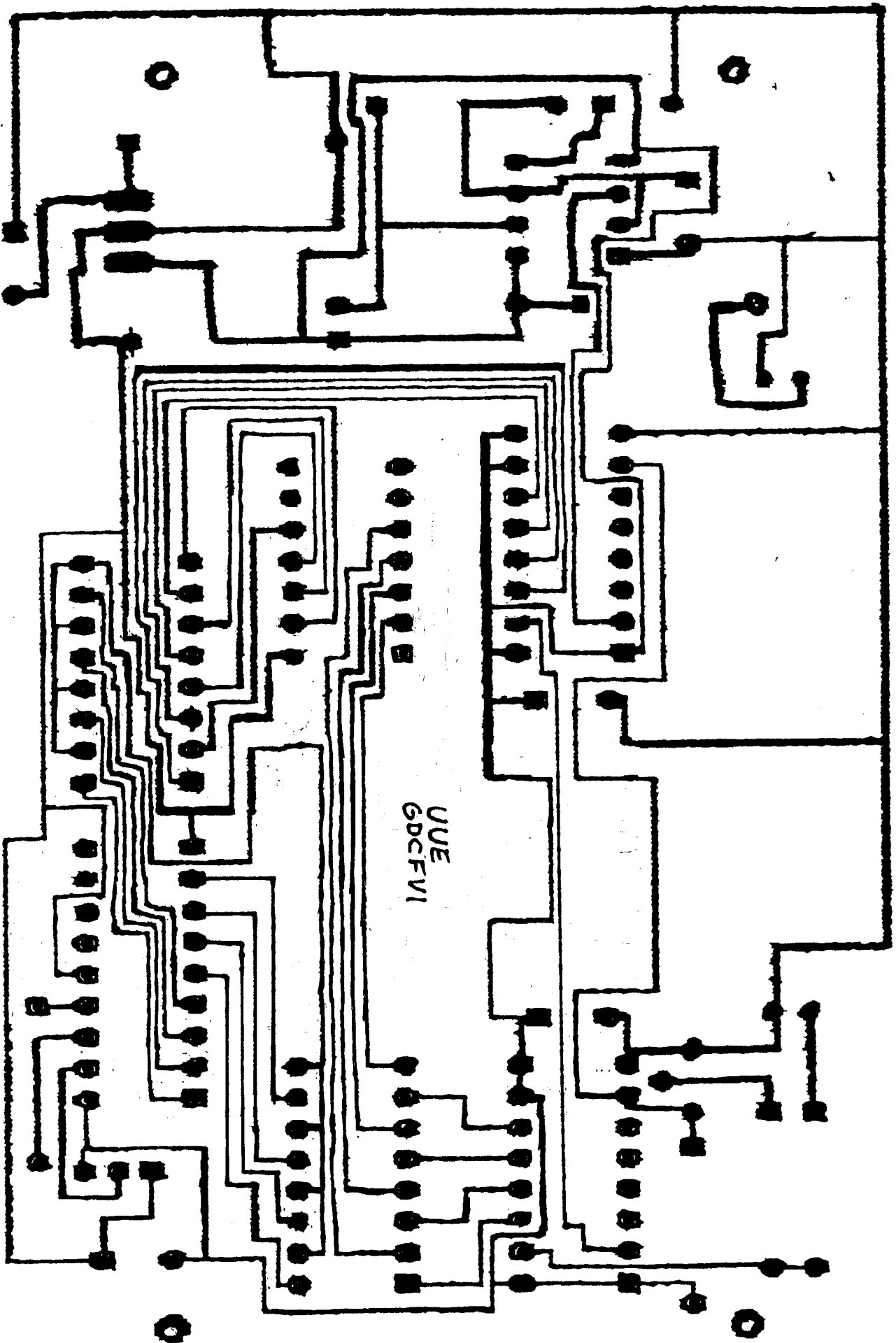
PART	DESCRIPTION	PART NUMBER	SUPPLIER
BAT	BATTERY ENCLOSURE (4xAA)	12BH381	Mouser
C1	.22uf 63V MUTLI-FILM	581-220NK63	Mouser
C2	.1uf CERAMIC DISC CAP	140-CD12R6-104Z	Mouser
C3	.1uf CERAMIC DISC CAP	140-CD12R6-104Z	Mouser
C4	.01uf CERAMIC DISC CAP	140-CD50Z6-103M	Mouser
C5	.1uf CERAMIC DISC CAP	140-CD12R6-104Z	Mouser
C6	10uf 10V ELEC CAP	93577	Jameco
C7	1uf 25V ELEC CAP	10866	Jameco
D1	GREEN LED T-1 3/4	34761	Jameco
D2	RED LED T-1 3/4	34796	Jameco
Q1	2N2222 TRANSISTOR	28628	Jameco
R1	1K RESISTOR (all 1/4 watt)	108011	Jameco
R2	560K RESISTOR	299-560K	Mouser
R3	1.1M RESISTOR	299-1.1M	Mouser
R4	1K RESISTOR	108011	Jameco
R5	10K RESISTOR	108126	Jameco
R6	470 RESISTOR	107983	Jameco
R7	470 RESISTOR	107983	Jameco
RN1	1K RESISTOR NETWORK	569-8991-1K	Mouser
SW1	SPDT TOGGLE SWITCH	Any Type	
U1	555 TIMER LM555CN	570-LM555CN	Mouser
U2	COUNTER 74LS161	46818	Jameco
U4	COUNTER 74LS161	46818	Jameco
U5	QUAD OPTO-ISO PS2501-4	PS2501-4NEC	DigiKey
U7	QUAD OPTO-ISO PS2501-4	PS2501-4NEC	DigiKey
U8	DECODING IC	CAD DEC IC	UUE
VR1	5V REGULATOR L7805CV	51262	Jameco
TRA	TRANSMITTER 310MHZ		UUE
PC	PRINTED CIRCUIT BOARD		
ENC	ENCLOSURE - PERFECT FIT	537-404-BK	Mouser

SUPPLIERS LIST

DigiKey	(800) 344-4539
UUE	ninteach@access1.net
Jameco	(800) 831-4242
Mouser Electronics	(800) 346-6873

SCHMATIC SHEET





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