

# CAR ALARM DISARMER 1

## USER INSTRUCTIONS / ASSEMBLY OF KIT

KIT ASSEMBLY:

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

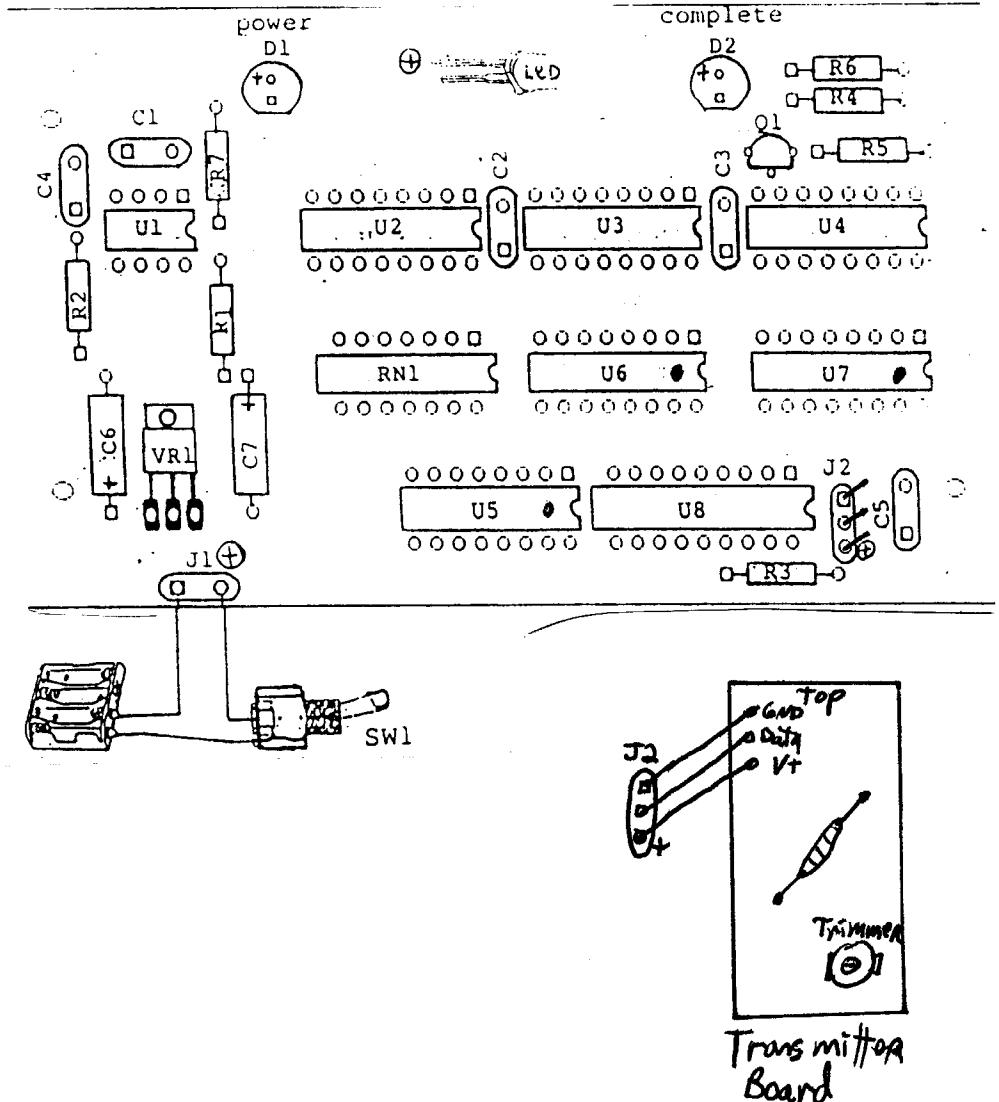
SOLDER THE IC'S ON THE BOARD FIRST, THEN THE CAPACITORS.

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
- U3 COUNTER IC
- U4 COUNTER IC
- U5 INTERFACE
- U6 INTERFACE
- U7 INTERFACE
- U8 CODING IC
- VR1 5 volt REGULATOR
- SW1 POWER SWITCH
- BAT BATTERY ENCLOSURE
- TRA TRANSMITTER BOARD
- PC PC BOARD



## USER INSTRUCTIONS:

YOU WILL NEED TO GET NEAR SOME CARS WITH ALARMS. 20-75 FEET FROM THE TARGET VEHICLES. TURN THE POWER SWITCH ON AND THE GREEN LED SHOULD LIGHT UP.

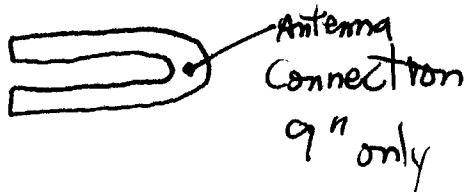
THE ALARM DISARMER 1 WILL PERFORM A 12 BIT FULL SCAN OF ALL POSSIBLE COMBINATIONS, ONCE THE CORRECT ONE IS FOUND IT WILL TURN OFF THE ALARM. IF THE UNIT FAILS TO OPERATE, YOU CAN SLOW DOWN THE CLOCK BY ADJUSTING C1 AND/OR C4. MAKING THEM LARGER WILL SLOW DOWN THE CLOCK, SOME NEWER ALARMS REQUIRE THAT THE SIGNAL BE PRESENT FOR A LONGER TIME, THEREFORE THE DISARMER MAY BE TOO FAST.

THE DISARMER 1 WILL TAKE AROUND 10-12 MINUTES TO PERFORM IT'S CODE SEARCH.

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IF YOU WANT TO YOU CAN ATTACH A 9INCH ANTENNA TO THE CURVE POINT ON THE TRANSMITTER BOARD.

SEE DIAGRAM BELOW:



FOR EVEN BETTER PERFORMANCE YOU MAY EVEN WANT TO TRY CHANGING U2, U3 AND U4 TO 74LS163 COUNTERS. THIS WILL SEARCH MORE SLOWLY ALSO.

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NOTE: THE TRANSMITTER IS OPERATING AT 300MHZ, SOMETIMES CAR ALARMS ARE NOT EXACTLY ON 300MHZ LIKE THEY ARE SUPPOSED TO BE. YOU MAY BE REQUIRED TO TUNE THE TRIMMER CAP ON THE TRANSMITTER BOARD USING A SPECTRUM ANALYZER.

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PARTS LIST

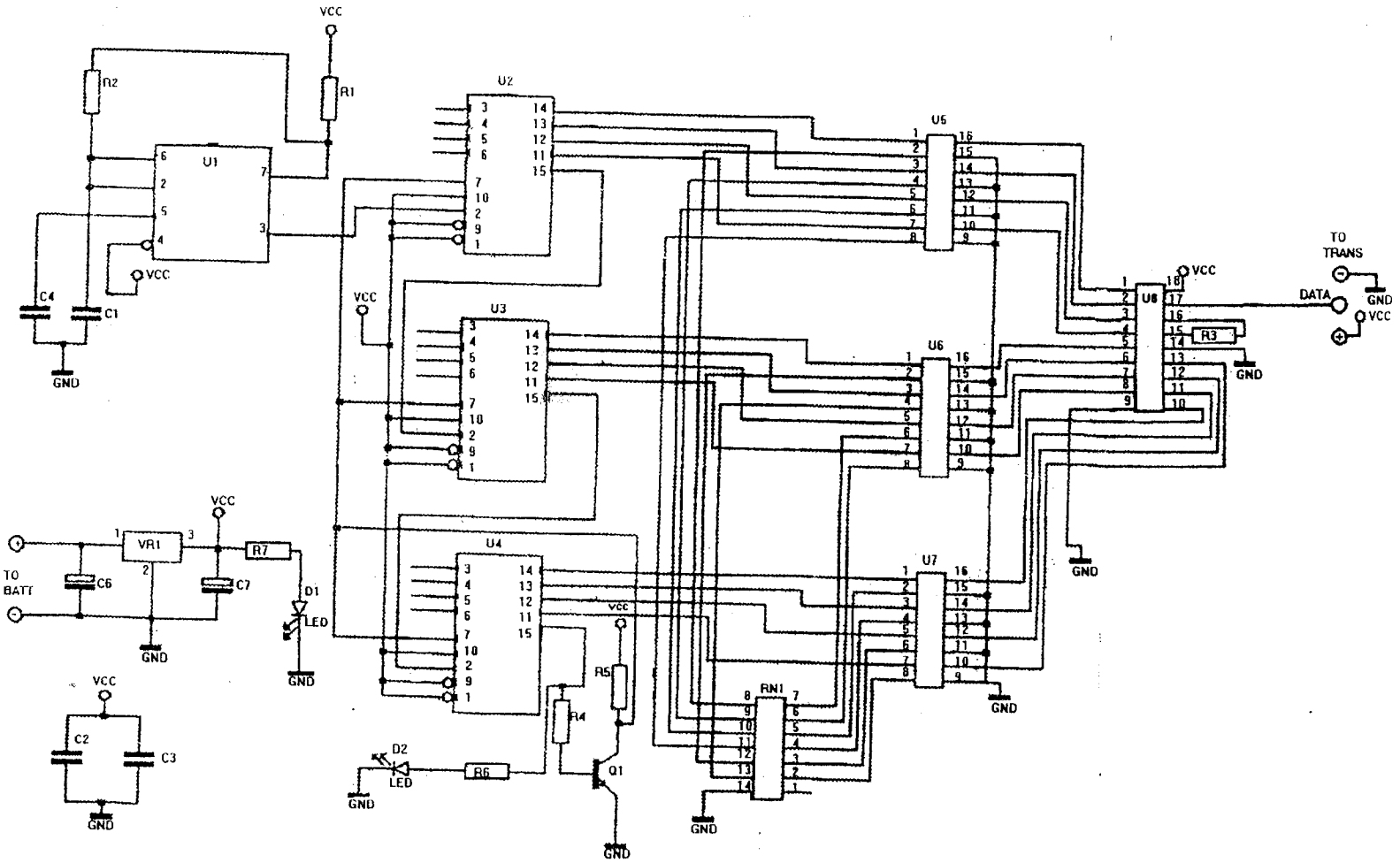
PART	DESCRIPTION	PART NUMBER	SUPPLIER
BAT	BATTERY ENCLOSURE (4xAA)	12BH381	Mouser
C1	.22uf 63V MUTLI-FILM	581-220NK63	Mouser
C2	.1uf CERAMIC DISC CAP	140-CD12R6-104Z	Mouser
C3	.1uf CERAMIC DISC CAP	140-CD12R6-104Z	Mouser
C4	.01uf CERAMIC DISC CAP	140-CD50Z6-103M	Mouser
C5	.1uf CERAMIC DISC CAP	140-CD12R6-104Z	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
U3	COUNTER 74LS161	46818	Jameco
U4	COUNTER 74LS161	46818	Jameco
U5	QUAD OPTO-ISO PS2501-4	PS2501-4NEC	DigiKey
U6	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 300MHZ, OR USE OLD CAR ALARM XMTR		
PC	PRINTED CIRCUIT BOARD		
ENC	ENCLOSURE - PERFECT FIT	537-404-BK	Mouser

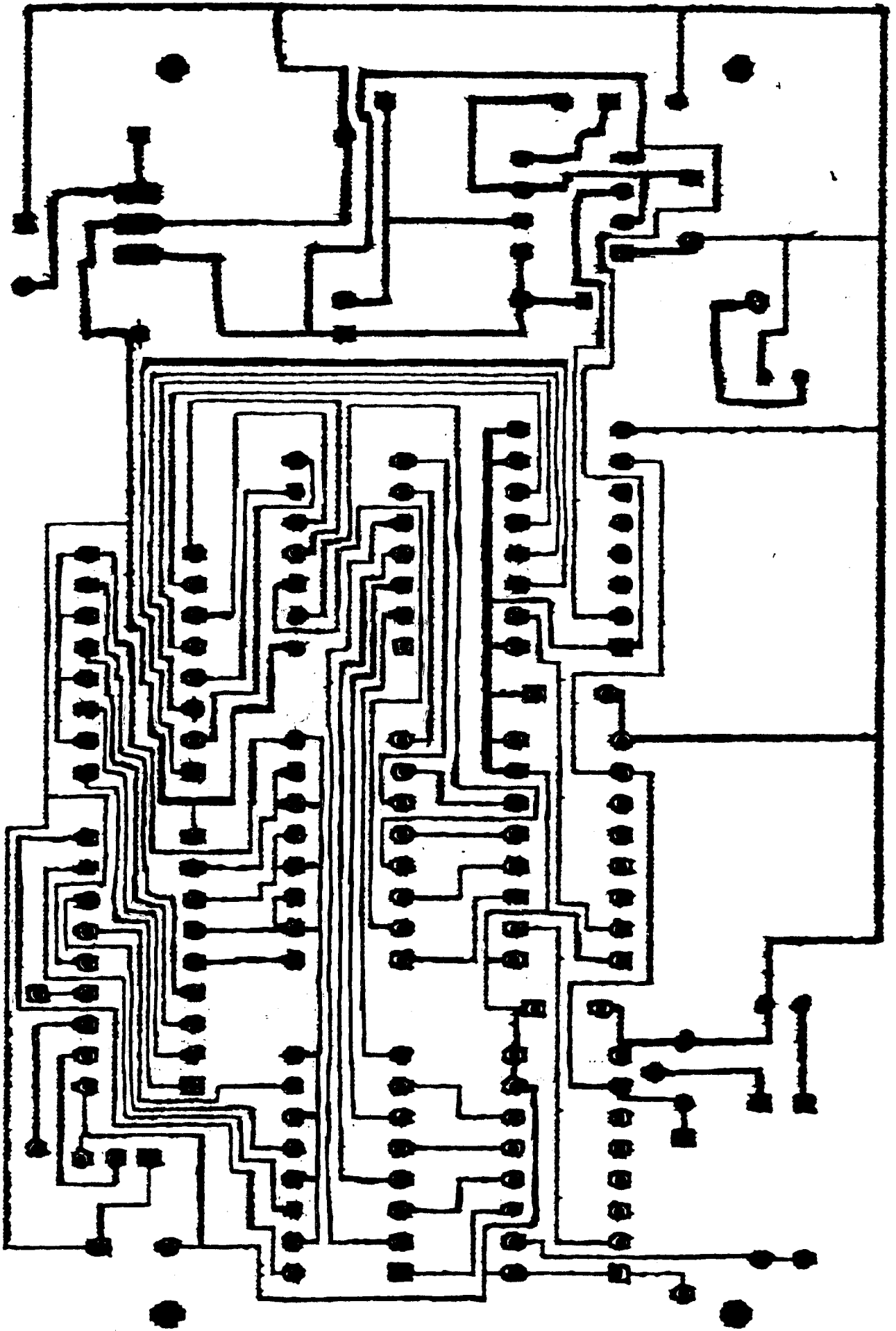
SUPPLIERS LIST

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

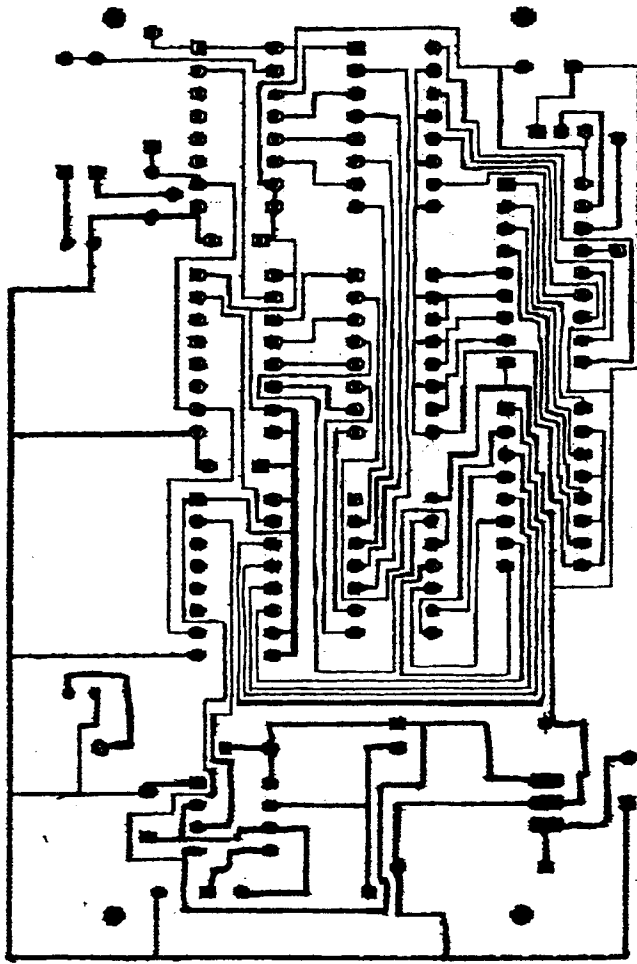
SCHEMATIC SHEET





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