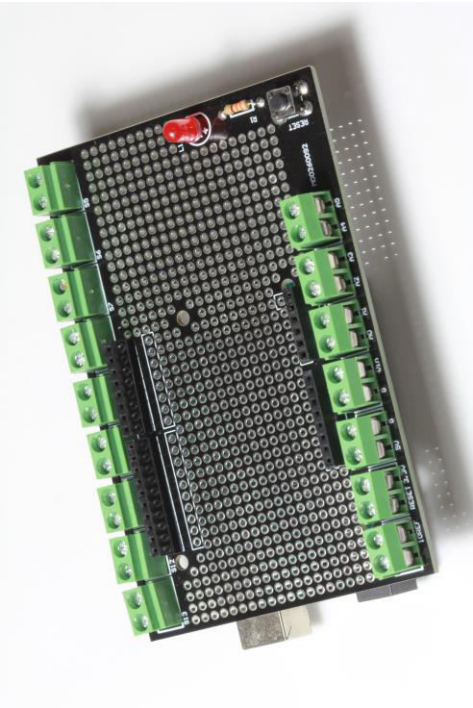


ARDUINO COMPATIBLE PROTOTYPING
SCREW SHIELD

(ARDUINO COMPATIBLE)
PRODUCT CODE: M00270057

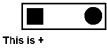


FEATURE:

- The Screw Shield extends all pins of the Arduino UNO out to screw terminals.
- Provide large amount of 0.1” spaced through-holes, a RESET button and LED for D13 pin indication.
- Arduino Sketch example for showing testing of RESET button and LED connecting to D13.
- Requires 1 Arduino UNO (not included).

READ BEFORE INSTALLATION:

- Put the component on the side of screen printing and solder on the back of PCB without printing.
 - Placing direction of component.
1. On component, longer leg is “+”.
 2. On PCB marking, square pad as Figure 1 is always “+”.

	SCREW AT THE TOP 	
FIGURE 1	FIGURE 2	

DESCRIPTION:

The circuit design is based on the Arduino UNO. Of course, this can be used on any brand of Microcontroller or external circuit if the pin location is matched. If this is not matched, just route this yourself.
The Sketch example has shown you the testing of RESET button and LED.

INSTALLATION:

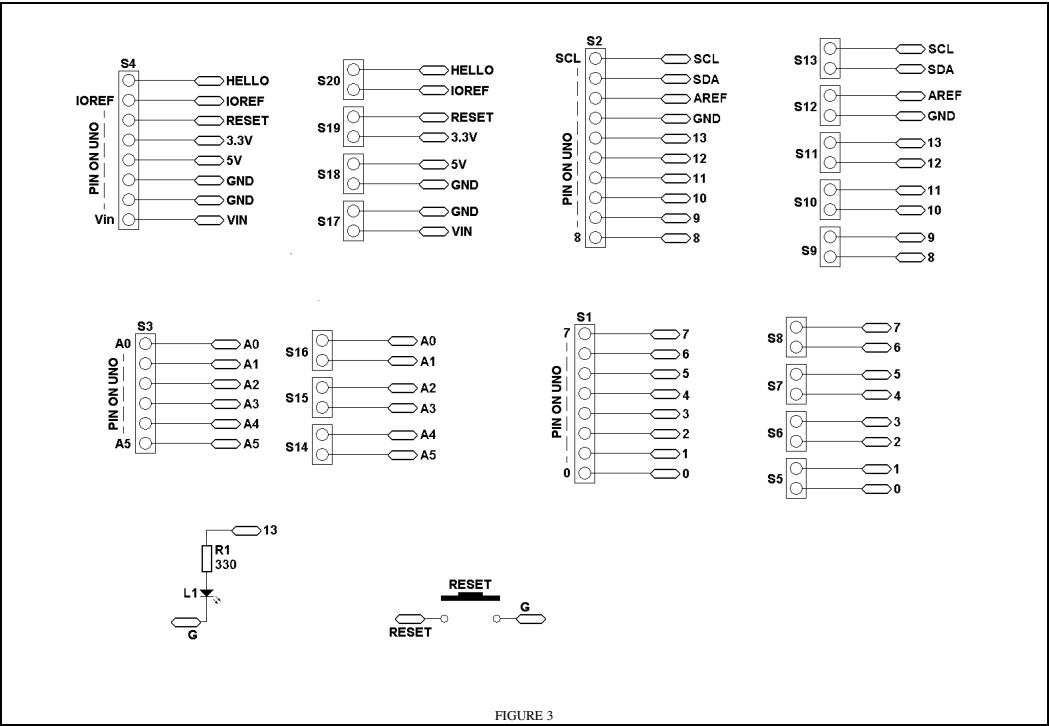
Just install the component to the PCB M00260092 according to below table

ITEM	SYMBOL ON PCB	DESCRIPTION	OUTLOOK	DIRECTION IS IMPORTANT?
1	R1	RESISTOR, 330ohms	ORANGE, ORANGE BROWN	NO
2	RESET	PUSH BUTTON SWITCH	FOUR LEGS	YES, YOU MUST MAKE SURE WHICH LEGS IS PUT INTO THE PCB FOR SOLDERING
3	L1	LED	RED	YES
4	S5	SCREW TERMINAL	FIGURE 2	NOTE 1
5	S6	SCREW TERMINAL	FIGURE 2	NOTE 1
6	S7	SCREW TERMINAL	FIGURE 2	NOTE 1
7	S8	SCREW TERMINAL	FIGURE 2	NOTE 1

8	S9	SCREW TERMINAL	FIGURE 2	NOTE 1
9	S10	SCREW TERMINAL	FIGURE 2	NOTE 1
10	S11	SCREW TERMINAL	FIGURE 2	NOTE 1
11	S12	SCREW TERMINAL	FIGURE 2	NOTE 1
12	S13	SCREW TERMINAL	FIGURE 2	NOTE 1
13	S14	SCREW TERMINAL	FIGURE 2	NOTE 1
14	S15	SCREW TERMINAL	FIGURE 2	NOTE 1
15	S16	SCREW TERMINAL	FIGURE 2	NOTE 1
16	S17	SCREW TERMINAL	FIGURE 2	NOTE 1
17	S18	SCREW TERMINAL	FIGURE 2	NOTE 1
18	S19	SCREW TERMINAL	FIGURE 2	NOTE 1
19	S20	SCREW TERMINAL	FIGURE 2	NOTE 1
20	S1	STACKABLE HEADER – 8PIN	LONG 8 PIN	NO
21	S2	STACKABLE HEADER – 10PIN	LONG 10 PIN	NO
22	S3	STACKABLE HEADER – 6PIN	LONG 6 PIN	NO
23	S4	STACKABLE HEADER – 8PIN	LONG 8 PIN	NO

NOTE 1: Metal terminal is facing outside the PCB.

CIRCUIT DIAGRAM:



SKETCH:

```
/* This Sketch is just for testing of L1 and RESET button after assembly
   If the assembly is no problem, L1 would stay on "ON" for 2 second, then "OFF".
   After pushing RESET button, the LED light up for 2 second and "OFF" again. */

/* Pin number for LED. */
int a = 13;

/* Other variable for using in this Sketch. */
int count = 0;

void setup() {
    pinMode (a, OUTPUT);
}

void loop() {

/* The below part only run for one time in the first loop.
   If you want to run again, you need to push the RESET button again.
   If the RESET button have no problem, everything would start again as the word "RESET". */
    if (count == 0) {
        digitalWrite (a, HIGH);
        delay (2000);
    }

/* The below part would run forever. */
    digitalWrite (a, LOW);
    count = 1;

}
```