



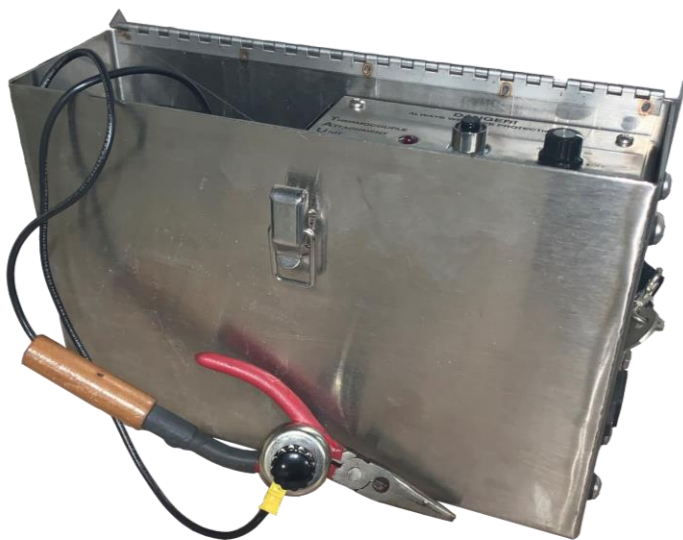
# **Thermal Tech & Temp**

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### **Thermocouple Attachment Unit Instruction Manual & Parts List**

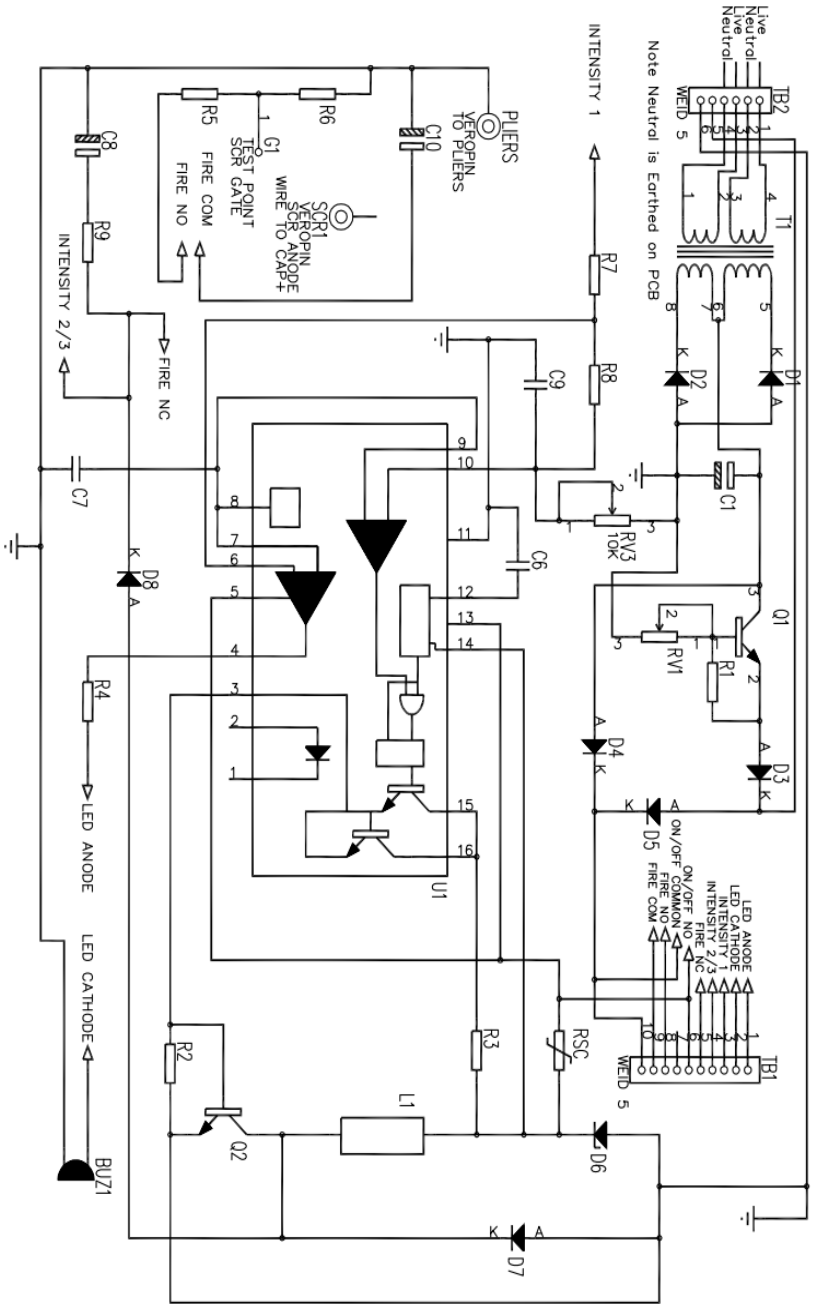


**This unit is a piece of electronic equipment and should only be used by properly trained personnel. It should only be serviced or repaired by qualified personnel.**

## Parts List

Sch. ID	Part #	Description
R1	23901	RESISTOR (R1)
R2	23902	RESISTOR (R2)
R3	23903	RESISTOR (R3)
R4	23904	RESISTOR (R4)
R5	23905	RESISTOR (R5)
R6	23906	RESISTOR (R6)
R7	23907	RESISTOR (R7)
R8	23908	RESISTOR (R8)
R9	23909	RESISTOR (R9)
C1	23910	CAPACITOR (C1)
C6, C9	23911	CAPACITOR (C6, C9)
C7	23912	CAPACITOR (C7)
C8	23913	CAPACITOR (C8)
C10	23914	CAPACITOR (C10)
UI	23915	CHIP (U1)
Q1	23916	REGULATOR (Q1)
Q2	23917	REGULATOR (Q2)
D1-5, D7	23918	POWER DIODE (D1, D2, D3, D4, D5, D7)
D6	23919	POWER DIODE (D6)
D8	23920	POWER DIODE (D8)
BUZ1	23921	BUZZER (BUZ1)
L1	23922	POWER INDUCTOR (L1)
SCR1	23923	SCR (SCR1)
RSC	23924	CIRCUIT BREAKER (RSC)
RV1	23925	POT SWITCH (RV1)
RV3	23926	POT SWITCH (RV3)
TI	23927	TRANSFORMER (T1)
TB1	23928	TERMINAL BLOCK (TB1, TB2)
-	23011	REPLACEMENT SS TAU CASE FOR EHS TAU
-	23012	REPLACEMENT CARRYING STRAP FOR EHS TAU CASE
-	23013	REPLACEMENT PLIERS FOR EHS TAU
-	23014	REPLACEMENT BATTERY FOR EHS TAU
-	23015	REPLACEMENT MAGNET (INC. KNOB) FOR EHS TAU
-	23016	REPLACEMENT POWER CORD FOR EHS TAU
-	23017	REPLACEMENT FACEPLATE FOR EHS TAU

# Schematic



## Operating Instructions

### **PROPER PPE MUST BE WORN DURING OPERATION (GLOVES, EYE PROTECTION, EAR PROTECTION)**

**How it works:** A thermocouple attachment unit provides a flash-discharge butt weld. A 100 volt capacitor inside the TAU is discharged to make the weld.

- First clean the welding surface, pliers, and ground magnet
- Attached the ground magnet adjacent to the weld area
- Hold the wire  $\frac{1}{4}$  inch from the edge with the pliers
- Touch the weld area with the wire, while applying firm pressure
  - Do not touch the pliers to the piece
- Set the energy settings
  - The energy settings may be used as an initial guide. They should be modified to suit the operator, wire type, and desired result.
- The unit is discharged by pressing the discharge button after the unit is fully charged
  - A fully charged unit will display a red light around the discharge switch and emit a buzzing sound
- Charge the unit after use
  - Plug in the provided power cord to the side of the TAU, then plug into a power receptacle
  - Discharging the unit, while not properly charged, will damage the TAU

#### **Technical Data**

**Charging voltage** 115v

**Battery voltage** 12v

**Dimensions** 12" x 8" x 4"

**Maximum Joules** 50

**Weight** 14 pounds