

SPOT WELDER BASIC SAFETY PROCEDURES

IF UNFAMILIAR – STOP AND ASK A MONITOR

Personal Protective Equipment (PPE)

- Wear safety glasses or a face shield in the Shop Area.
- NO gloves that may melt (e.g. rubber) – consider insulated gloves.
- No loose clothing, jewelry, and tie back long hair. Flame-resistant clothing to reduce the risk of burns from sparks and hot metal.



Pre-Operation Safety Checks

- Inspect the machine for any signs of wear, damage, or malfunction. Do not use the equipment if any issues are found.
- Ensure all safety guards, shields, and covers are in place and properly secured.
- Verify that the work area is clean, dry, and free from obstructions or tripping hazards. Remove flammable materials and clutter from the welding workspace.
- Be aware of traffic in the area – the welder is in a high traffic area.

Safe Operation Procedures

- Ensure hands and feet are dry before using.
- Inspect equipment before use: Check cables, electrodes, and connections for damage or wear.
- Set correct parameters - Use the proper current, pressure, and time settings for the materials being welded.
- Do not touch electrodes during operation: Avoid direct contact with live parts to prevent electrical shock.
- Secure workpieces properly: Make sure metal pieces are properly clamped and positioned before starting the weld.
- Monitor the welding process: Stay attentive and ready to stop the machine in case of malfunction. THERE IS NO EMERGENCY STOP ON THIS EQUIPMENT.
- If two-person operation is necessary, communication and responsibilities must be clear. The person on the pedal is the person in charge.
- Ensure good ventilation – do not breath galvanized metal fumes.

Securing and Cleanup

- Allow materials to cool. Use tools to handle welded parts, as they are extremely hot.
- Turn off equipment: Shut down the spot welder and move the pedal under the arm out of the traffic areas.
- Clean the work area: Remove scraps, tools, and debris to maintain a safe environment
- If problems or the equipment appears to need maintenance inform the Monitor.