#### CAED Support Shop

# **Spot Welder**

#### Review dress code

- -Safety Glasses must be worn at ALL times in the Shop.
- -Remind students that long hair must be tied back, loose clothing and/or jewelry must be removed
- -Remind students that the EDGES of sheet metal may be VERY sharp.
- -Spot welder is for sheet metal only.
- -No steel sections, cables or rod.
- -There are two dials on the right side of the machine that control the machine.
  - -One is for current control (heat) the other is for weld duration (time).
  - -These should only be changed with technician help.

# Intro/Strengths

- -Good for making decorative and semi-structural components
- -Uses electrical current to melt and fuse two sheets together where electrodes meet.
- -The spot weld is visible. This should be considered when designing connections.
- -Pieces must overlap.

# Operation

- -Demonstrate operation Reminding students to:
  - Apply firm, constant pressure to foot pedal until cycle is complete.
  - -Listen and feel the machine stop working when the cycle is complete.
    - -One common mistake: students do not wait for the cycle to stop before lifting foot.
      - -This causes arcing which dangerous.
  - -Many new students do not apply enough foot pressure and think the machine is broken.
- -Demonstrate making at least two spot welds to make a stable connection.
- -Encourage students to make test weld(s) on a scrap of the same material their project is made from.

### Field Questions and students operate tool.

#### •Remind students to clean up after themselves.

- -Remove all material and scraps from table, surrounding area, and floor
- -Show them where the metal recycling, brooms, etc. are located and what our expectations for clean-up are.

