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.

**REMEMBER- We are here to help. If you have any questions, ask!** 