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> Campbell Hausfeld 115v Stick Welder Instruction Manual

Campbell Hausfeld WS099098AV

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Model: WS099098AV

1. IMPORTANT SAFETY INFORMATION

Operating welding equipment requires strict adherence to safety protocols to prevent injury or damage. Always read and understand all safety warnings and instructions before using the Campbell Hausfeld 115v Stick Welder.

General Safety Precautions:

- **Eye and Face Protection:** Always wear a welding helmet with appropriate shade lenses and safety glasses underneath to protect against arc flash and flying debris.
- **Hand Protection:** Use heavy-duty, insulated welding gloves to protect hands from heat, sparks, and electrical shock.
- **Body Protection:** Wear flame-resistant clothing, long sleeves, and pants to protect skin from UV radiation, sparks, and spatter. Avoid synthetic fabrics.
- **Ventilation:** Ensure adequate ventilation in the work area to disperse welding fumes. If working in a confined space, use a fume extractor or respirator.
- **Fire Prevention:** Keep a fire extinguisher readily available. Remove all flammable materials from the welding area. Be aware of hot metal and sparks that can ignite nearby combustibles.
- **Electrical Safety:** Never operate the welder in wet conditions or with wet hands. Ensure all electrical connections are secure and the power cord is in good condition. Do not bypass safety features.
- **Work Area:** Keep the work area clean, dry, and free of clutter. Ensure stable footing.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

2. PRODUCT OVERVIEW AND COMPONENTS

The Campbell Hausfeld 115v Stick Welder (WS099098AV) is designed for home and shop applications, offering portability and ease of use. It features a transformer design for an easy-starting, smooth arc.

Included Components:

- Stick Welder (1)
- Electrode Starter Pack (1)
- Hammer/Brush (1)
- Gloves (1 pair)



Figure 2.1: The Campbell Hausfeld 115v Stick Welder shown with its complete accessory kit, including the welder unit, welding electrodes, chipping hammer/wire brush, and protective gloves.



Figure 2.2: A close-up view of the front panel of the Campbell Hausfeld 115v Stick Welder, highlighting the control switch for high/low heat settings, the duty cycle indicator light, and input/output specifications.

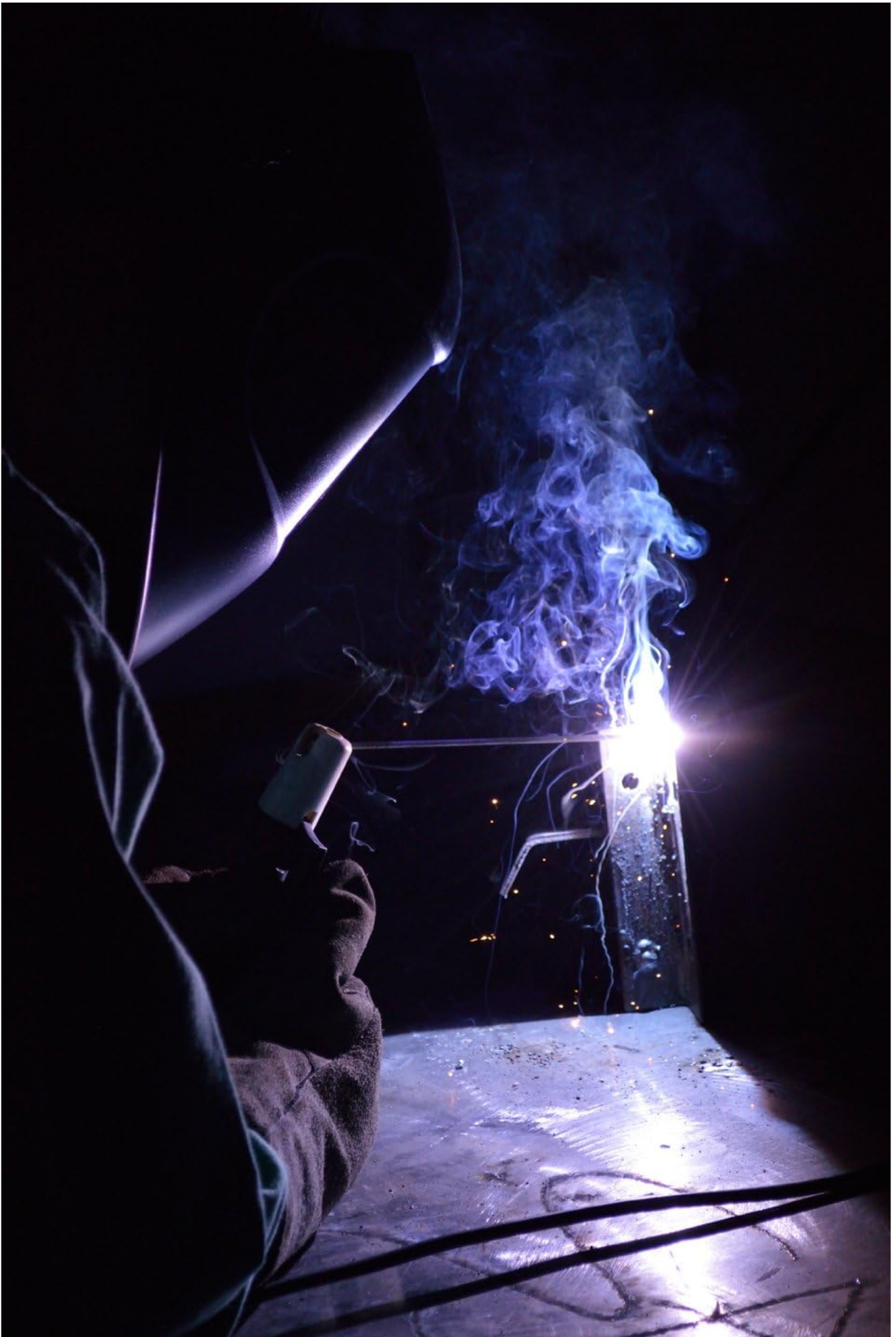


Figure 2.3: An illustrative image depicting the welding process, showing a bright arc and smoke, emphasizing the need for proper safety gear like a welding helmet.

3. SETUP AND INSTALLATION

Proper setup is crucial for safe and effective welding. Follow these steps to prepare your welder for operation.

Power Requirements:

- The welder operates on standard 115 Volts AC household current.
- For welding with 1/16-inch electrodes, a 15-amp household circuit is sufficient.
- For welding with 5/64-inch electrodes, a 20-amp circuit is required. Ensure your circuit can handle this load to prevent tripping breakers.

Connecting Cables:

1. **Ground Clamp Connection:** Attach the ground clamp to a clean, bare metal section of your workpiece. A good ground connection is essential for a stable arc.
2. **Electrode Holder Connection:** Insert the welding electrode (rod) into the electrode holder. Ensure it is securely clamped.
3. The weld and ground cables are approximately 6 feet in length. Position the welder close enough to your work area to avoid stretching the cables.

Workpiece Preparation:

Clean the work surface thoroughly before welding. Remove any rust, paint, grease, or other contaminants. A clean surface ensures a strong, consistent weld and helps in striking an arc easily.

4. OPERATING INSTRUCTIONS

This section provides guidance on operating your Campbell Hausfeld Stick Welder for optimal performance.

Selecting Heat Setting:

The welder features a dual heat setting, preset for different electrode sizes:

- **LOW:** For 1/16-inch welding rods.
- **HIGH:** For 5/64-inch welding rods.

Select the appropriate setting based on the electrode size you are using and the thickness of the material you are welding.

Welding Capacity:

This welder is capable of welding mild and stainless steel up to 1/8 inch (approximately 3.2 mm) thick.

Duty Cycle:

The duty cycle indicates how long the welder can operate continuously within a 10-minute period before needing to cool down. The WS099098AV has the following duty cycles:

- **20% @ 50A:** Can weld for 2 minutes out of every 10 minutes at 50 Amps.
- **10% @ 70A:** Can weld for 1 minute out of every 10 minutes at 70 Amps.

The thermal overload protection system will automatically shut off the welder if the duty cycle is exceeded, preventing damage from overheating. Allow the unit to cool down before resuming operation.

Basic Welding Technique:

1. **Prepare the Workpiece:** Ensure the metal is clean and free of contaminants.
2. **Strike an Arc:** Gently scratch or tap the electrode against the workpiece to initiate the arc. Once the arc is established, maintain a consistent gap between the electrode and the workpiece.
3. **Maintain the Arc:** Move the electrode steadily along the joint, maintaining a consistent arc length and travel speed. The electrode will melt and deposit filler material.
4. **Practice:** Arc welding requires practice and patience. Experiment with different angles, travel speeds, and arc lengths on scrap metal to develop your technique.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Campbell Hausfeld Stick Welder.

Cleaning:

- Periodically clean the exterior of the welder with a dry cloth.
- Ensure the ventilation openings are clear of dust and debris to allow for proper airflow and cooling. Use compressed air if necessary, but ensure the unit is unplugged.

Inspection:

- Before each use, inspect the power cord, welding cables, electrode holder, and ground clamp for any signs of damage, fraying, or loose connections. Replace damaged components immediately.
- Check that all connections are tight and secure.

Storage:

Store the welder in a clean, dry place, away from moisture and extreme temperatures. Protect it from dust and corrosive materials.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Campbell Hausfeld Stick Welder.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Welder does not turn on.	No power to the unit; tripped circuit breaker; faulty power cord.	Check power outlet and circuit breaker. Inspect power cord for damage.
Difficulty striking an arc.	Poor ground connection; incorrect electrode type/size; dirty workpiece; low current setting.	Ensure ground clamp is on clean, bare metal. Use recommended electrodes. Clean workpiece. Select appropriate heat setting (HIGH/LOW).
Weak or inconsistent weld.	Incorrect current setting; improper arc length or travel speed; unsuitable electrode.	Adjust heat setting. Practice maintaining a consistent arc and travel speed. Ensure electrode is suitable for material thickness.
Welder shuts off during operation.	Thermal overload protection activated (duty cycle exceeded); insufficient ventilation.	Allow welder to cool down. Ensure adequate ventilation around the unit. Reduce continuous welding time.
Excessive spatter.	Too high current; long arc length; dirty workpiece.	Reduce current setting. Shorten arc length. Clean workpiece thoroughly.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact customer support.

7. TECHNICAL SPECIFICATIONS

Brand	Campbell Hausfeld
Model Number	WS099098AV
Power Source	AC
Voltage	115 Volts
Wattage	8.05 KW
Item Weight	24.6 pounds
Product Dimensions	15.4 x 7.75 x 10.25 inches
Material	Metal
Special Feature	Portable
Included Components	Electrode Starter Pack (1), Gloves (1 pair), Hammer/Brush (1), Stick Welder (1)
Duty Cycle	20% @ 50A, 10% @ 70A

Weld and Ground Cable Length	6 feet
UPC	045564643744

8. WARRANTY INFORMATION

The Campbell Hausfeld 115v Stick Welder (WS099098AV) comes with a **1 Year Limited Warranty**.

This warranty covers defects in materials and workmanship under normal use. For specific terms, conditions, and limitations of the warranty, please refer to the warranty card included with your product or contact Campbell Hausfeld customer support.

9. CUSTOMER SUPPORT

For technical assistance, warranty claims, or general inquiries regarding your Campbell Hausfeld 115v Stick Welder, please contact Campbell Hausfeld customer support.

Please have your model number (WS099098AV) and purchase date available when contacting support to ensure efficient service.

Visit the official Campbell Hausfeld website for the most up-to-date contact information and support resources.