

# MOTOR GUARD CORPORATION

## MODEL J20039 ENERGIZED SLIDE HAMMER JO2500 TOP PRO WELDER

The J20039 Energized Slide Hammer, used with the Magna Spot JO2500 Welder is a unique and effective tool that can greatly reduce dent repair time. With this single tool, the operator can make a number of repairs to a damaged body panel without changing tools, electrodes or welding consumables. After pulling a dent, the star washer is quickly and easily snapped off leaving little to be done to prepare the area of damage for finishing. A single star washer tip can be used for multiple pulls, after which the washer is rotated, providing a fresh tip.

### IMPORTANT SAFETY INFORMATION

- 1. READ, STUDY AND UNDERSTAND ALL WARNINGS, CAUTIONS AND OPERATING INSTRUCTIONS FURNISHED WITH THIS EQUIPMENT PRIOR TO INSTALLATION OR USE. CONTACT THE FACTORY IF ANY PART OF THIS INSTRUCTION IS UNCLEAR.**
- 2. ONLY TRAINED, QUALIFIED PERSONS ARE TO INSTALL, OPERATE AND MAINTAIN THIS EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE CODES, SAFETY PRACTICES AND MANUFACTURER'S INSTRUCTIONS.**
- 3. ELECTRICAL SHOCK CAN BE FATAL, THEREFORE:**
  - Be certain that welder is safely connected to a properly grounded power supply in accordance with the instructions that came with unit.
  - Protect yourself with dry, insulated gloves and clothing.
  - Do not operate in a damp or wet area.
- 4. FUMES AND GASES CAN BE SERIOUSLY HARMFUL TO YOUR HEALTH, THEREFORE:**
  - Operate this equipment only in a well-ventilated area. If this is not possible, use an air-supplied breathing apparatus.
  - Welding of containers can result in explosion or poisonous fumes. Ensure that all containers are empty and properly cleaned prior to welding.
- 5. HOT METAL SLAG AND SPARKS MAY CAUSE BURNS, INJURY, FIRE OR EXPLOSION, THEREFORE:**
  - Protect yourself with proper goggles, face shield, gloves, shoes and clothing.
  - Do not operate unit in an explosive atmosphere, such as one containing paint, solvents, degreasers or gasoline.
  - Do not operate near combustible materials.
  - Have appropriate fire extinguisher immediately available and know how to use it.
  - Allow work-piece to cool before handling it.

### OPERATING INSTRUCTIONS

Prepare area of work to be repaired by completely removing paint, primer, rust, oil and dust around area of damage.

Be sure that ground cable of welder is solidly connected to clean metal on the body panel being repaired.

Connect Energized Slide Hammer to JO2500 Welder by removing handle and slipping adapter over copper electrode holder on trigger handle. Firmly tighten wing nut by hand.

Install a new star washer into the adapter at the end of the slide hammer. Tighten brass nut firmly so washer is centered and secure. Using a small file, remove copper coating from end of star washer, exposing clean metal.



Initial dial setting for weld time should be 2. If a stronger weld is required, increase setting gradually until a satisfactory result is obtained. Weld time should be set at the minimum required for a solid weld. A higher setting will result in burn-through and unnecessary damage.



Place tip of star washer against body panel at location you want to pull and depress trigger fully until welding ceases.

Without twisting or moving slide hammer, pull with slide weight until desired result is obtained. When finished, twist washer 1/4 turn, snapping off washer.

Continue welding and pulling until desired work has been completed.



Check tip of washer periodically, filing as needed to maintain a clean weld surface. Rotate washer in nosepiece adapter when it has been consumed.

## TROUBLESHOOTING

Symptom	Possible Cause	Solution
<b>Low or No Weld Power</b>	No power to unit  Poor electrical connections	Check power supply connections and cables  Ensure ground cable is firmly connected to clean metal on panel being repaired  Ensure all slide hammer connections are clean and tight
<b>Sheet Metal Burn Through</b>	Weld time setting too high  Burned or irregular star washer tip	Reduce setting  File tip to a smooth, rounded edge
<b>Poor or Weak Weld</b>	Poor ground cable connection  Poor contact at weld area	Ensure cable is firmly connected to clean metal on panel being repaired  Be sure that all paint, primer, rust oil and dust is removed from weld area  File tip of washer to remove copper plating and built up weld slag  Ensure all slide hammer connections are clean and tight