

MOTOR GUARD

MAGNA-SPOT STUD WELDER

MODELS JO1000/1050/1500/1525/1550

with Magna Pin System® Technology

Patent Pending

FEATURES

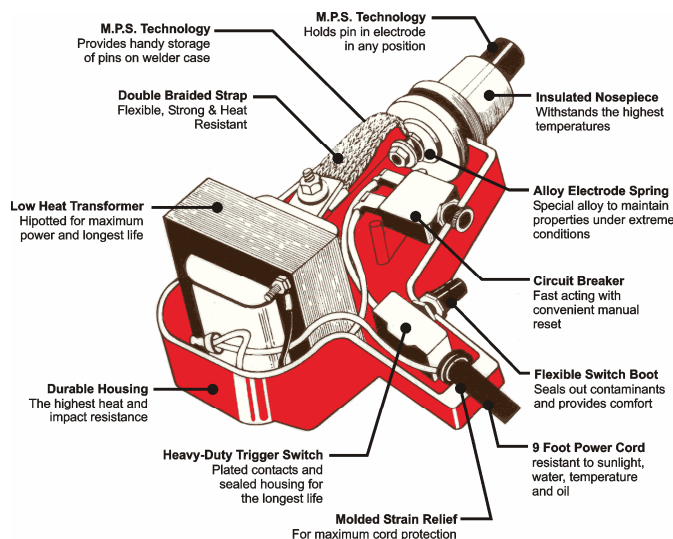
For “No-Holes” dent repair, Motor Guard Magna-Spot® Welders provide for the instant welding of Draw Pins, Rivets and Magna-Wire as well as for the shrinking of stressed metal.

All Motor Guard Magna-Spot® Stud Welders feature the exclusive new Magna Pin System which holds the pin in the electrode in any position and provides handy pin storage on the case.

In addition, our exclusive *Low-Heat®* technology is designed to virtually eliminate burn-through on today’s high-strength steel unibody vehicles.

Motor Guard Welders contain other features not found on competitive models such as light-weight, ergonomic designs, durable, heavy-duty components and a proven track record of reliability.

All these features combine to make the Motor Guard Magna-Spot® Stud Welder the *Tool of Choice* for today’s collision repair



Magna-Spot® Stud Welder Exclusive Features

PRODUCT COMPARISON

This evaluation is provided to equip you with a tool to demonstrate the comparative benefits of Motor Guard stud welders. The comparisons are a summation of opinions expressed by a variety of users, distributors, field sales personnel and Motor Guard designers.

MOTOR GUARD
Magna-Spot®
JO1000/1050/1500/1525/1550

H & S
Auto Shot®
4500/4550/5050/5500

COUNTRY of ORIGIN

Manufactured, Packaged and Shipped in U.S.A.
 Using Some Imported Components

Some Models Manufactured in China
 Others in Canada

PHYSICAL FEATURES

Weight: 9.5 Lbs.
Lower Weight Means Less Operator Fatigue and Longer Use

Housing: Injection Molded Engineering Thermoplastic
High Strength, Impact and Abrasion Resistance
Lighter Weight
Molded Case Features Comfortable, Smooth Radius on Grip

Weight: 11 Lbs.
Over 13% Heavier

Housing: Compression Molded Engineering Thermoplastic
Lower impact and abrasion resistance
50% Heavier Weight
Sharper Radius on Grip

MOTOR GUARD Magna-Spot®

H & S Auto Shot®

ELECTRICAL FEATURES

Power Transformer

All Connections Hi-Pot Tested to 1500 Volts
Insulation is Vacuum Impregnated
Transformer Securely Mounted in Housing

Power Cord

Length: 9 Feet – Eliminates Need for Extension Cords
Cord Rating: SJTO – Resists Sunlight, Water, Temperature and Oil

Trigger Switch

Switch Rating: 20 Amp, 125/250 VAC, 1 HP @ 125 VAC
Enclosed, Sealed Switch with Plated Contacts
Silicon Switch Boot on Case to Seal Out Contaminants
Superior Switch Design with No Recorded Failures

Braided Strap Conductor

Double Copper Strap with Tinned Conductors for Maximum Flexibility and Longest Life
Insulated Sheath Reduces Internal Heat
Field Serviceable – Quick and Easy Replacement, Although Recorded Failures are Minimal

Power Transformer

No Indication of Hi-Pot Testing
No Insulation Visible
Transformer Not Mounted, Floats Freely

Power Cord

Length: 6.5 Feet – Requires Power Robbing Extension Cord
Cord Rating: SJT – Cord Damaged by Exposure to Grease or Oil

Trigger Switch

Switch Rating: 10 Amp, 125/250 VAC, .75 HP @ 125 VAC
Open Switch Design Provides Much Shorter Service Life
No Seal at Switch Allows Contaminants to Enter Case
Poor Switch Design is “Weakest Link”

Braided Strap Conductor

Single Copper Strap with Bare Conductors, Reduces Flexibility and Shortens Life
No Insulation Increases Internal Heat
Strap is Integral to Transformer – Requires Replacement of Transformer upon Failure

PIN RETENTION SYSTEM

Magna Pin System®

Provides Storage of Pins on Case for Increased Productivity
High-Temperature Polymer Clamp Holds Pin in Electrode in Any Position
Clamp Withstands High Current with No Change in Holding Power
Clamp Withstands 600 Degrees F with No Change in Holding Power
Polymer Clamp Remains Clean During Use as it does not Attract Metallic Particles
Polymer Clamp is Easily Replaceable

Stud Ease Technology®

No Pin Storage on Case
Internal Ring Magnet Holds Pin in Electrode Tip in Any Position
High Current May Damage or Demagnetize Magnet and Interfere with Electrical Operation
Permanent Demagnetization Observed at Elevated Temperatures
Magnet Attracts Iron Filings and Dust, Reducing Effectiveness and Possibly Interfering with Electrical Operation
Magnet is Not Individually Replaceable

DRAW PINS

Measured Tensile Strength of Pins

2.0mm Pin: 358 Pounds
2.5mm Pin: 559 Pounds (Only 500 Pound Pin on Market)

Measured Diameter of Pins

2.0mm Pin: 1.94mm (97% of Nominal Size)
2.5mm Pin: 2.46mm (98% of Nominal Size)

Pin Resistance to Bending: Medium

Measured Tensile Strength of Pins

2.2mm Pin: 290 Pounds
2.6mm Pin: 380 Pounds

Measured Diameter of Pins

2.2mm Pin: 2.03mm (92% of Nominal Size)
2.6mm Pin: 2.33mm (90% of Nominal Size)

Pin Resistance to Bending: Low

PRODUCT WARRANTY

Full Five-Year Warranty

All Parts Guaranteed

Limited Two-Year Warranty

Some Parts Excluded