



OPERATING INSTRUCTIONS

SAFETY GLASSES/GOGGLES SHOULD BE WORN AT ALL TIMES

STUD EASE TECHNOLOGY, **REDUCE THE PITA** (PAIN IN THE!) NEVER DROP A STUD AGAIN!

Stud Ease Technology holds the stud in welder for easy out of position welding. Increase accuracy when pulling small dents or placing molding rivets.



▲ NEVER OPERATE WITHOUT A TIP

To insert tip: Place tip in electrode - tapered end in. Tap firmly with the palm of your hand to seat the taper.

To remove tip: Tips may be hot after use - do not touch with bare hands.

- Using sidecutters/dykes: lightly grasp tip in space between head and electrode, and pry gently. Using screwdriver: insert blade in space between
- head and electrode and pry gently.



▲ STUD WELDING

Side-by-Side Adapter with

1080 Uni-Clamp.

· Can rotate 360°.

location.

tips)

of hand

above.

molding rivet welding.

Installation Instructions

Stud Ease (not included in this kit)

· Weld studs close together to build

pulling block of studs to be used with the

. Can be used for stud welding, shrinking and

· Lets you pinpoint exact stud or molding rivet

· Be sure ground ring and center taper on spring-

• Push Side-by-Side Adapter Collar over ground

relatively easy push fit and should turn by hand.

Insert the appropriate tip and follow instructions

ring until it is firmly seated. It must be a

Grind damaged area to bare metal. Insert stud welding tip. Insert stud, press gun against damaged panel until outer ring touches. Keep a firm contact between outer (ground) ring and bare metal. Press trigger for one half to one second. Do not remove gun until trigger has been released. Weld studs as required. IMPORTANT: NEVER DEPRESS TRIGGER FOR LONGER THAN ONE SECOND. There should not be more than 1/8" discoloration around weld for maximum strength.



▲ USE OF SLIDE HAMMER

Push roller cam away from you to open. Insert stud into tool. Turn roller cam towards you to grip stud. Pull damage as required. To release, push tool toward panel or turn roller away from you.

A steady pull on handle and tapping damaged area with body hammer will remove most dents. For extra pull force slide action may be required. As process is repeated on welded studs, damage will be gently removed.



REMOVING STUDS To remove studs, grip under head with sidecutters and rotate to break/cut studs from surface.

FOR OPTIMUM PERFORMANCE USE ONLY GENUINE UNI-SPOTTER WELDING STUDS

▲ MOLDING RIVETS

Remove Stud Welding tip from welder. Insert 1005 Molding Rivet Welding Tip. Tap into place with palm of hand. Insert 1003 Uni-Spotter Molding Rivets - flat end first - into welding tip. Rivet will be held in place by magnet in tip. Press gun against ground panel until ground ring touches. Keeping contact between ground ring and bare metal, press trigger for one half to one second. Do not remove gun until trigger has been released

DK1000 DENT KILLER

Studless, lever action dent pulling attachment for all Uni-Spotter Stud Welders (optional)

- Works great to restore body lines · Quick and easy to use
- · Lightweight and portable for out-of-position nulls





DK8004 - Replacement welding tips for DK1000

SHRINKING

Insert shrink tip. Press gun against ground panel until outer ring touches, keeping contact between outer ring and bare metal. Press trigger for one half to one second, do not remove gun until trigger has been released. IMPORTANT: Never depress trigger for longer than one second.

TO RELIEVE OIL CANNING:

Working around and then into the stretched area. make several small shrink spots until oil can is relieved. A spiral action is recommended. Quenching with a damp cloth to avoid chasing the oil can may be necessary on light gauge panels.

TO SHRINK HIGH SPOTS:

Follow shrinking procedures, placing shrink tip directly on high spot. If high spot has not been completely reduced, tap with body hammer while metal is still warm. IMPORTANT: Never depress trigger for longer than one second.

PARTS & ACCESSORIES



1045 Eliminator Side-by-Side 1041 Eliminator Side-by-Side Adapter – Collar Adapter with Stud Ease Only

5







Manufactures of World Class Tools and Equipment for the Automotive Industry

Georgetown, ON • Niagara Falls, NY Toll free: 1-888-677-3798 www.hsautoshot.com Email: info@hsautoshot.com

KIT CONTENTS HOW TO USE THE OPTIONAL **1045 ELIMINATOR**

- 4590 Stud gun the most powerful lightweight stud gun available
- 4516 Slide hammer
- 1004 Stud welding tip 1001 Flexpert welding studs

Visit www.hsautoshot.com for the full line of Uni-Spotter tools and accessories.

MAINTENANCE TIPS

NOTE: Disconnect from power supply before attempting to clean your 4590.

- To insure good contact, keep the ground ring and welding tips clean.
- To clean metal deposits on ground ring, use a fine, flat file. After filing, blow with air.
- · Never file electrode (centre piece that holds welding tips).
- · To clean tips, use medium-fine steel wool.
- · Molding rivet tip is magnetized and can pick up metal filings. Occasionally blow with air.
- If the overload relay trips, let welder cool for 10
- minutes before resetting, and observe duty cycle of 1 second on MAXIMUM.

HOW TO USE THE OPTIONAL 1095 MINI-PULL'R

(not included in this kit)

- 1. Insert stud into tool
- 2. Turn roller towards you to grip stud. Pull as
- required 3. Push in on tool, Mini-Pull'r will release from stud.





1045 Eliminator

Side-by-Side

Adapter with

Stud Ease







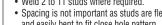
- · Weld 2 to 11 studs where required.
- and easily bent to fit close hole pattern
- Use narrow 5-hole side for tighter areas, wide

Spacing is not important as studs are flexible

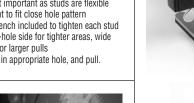
• Use screw wrench included to tighten each stud



rockers, rails and other heavy pulls.



11-hole side for larger pulls





loaded electrode are clean (see maintenance Insert tapered end of Extend-a-Tip into center spring loaded electrode. Tap into place with palm