

INDUCTION HEATER IH-500

Instruction Manual

MNL-IH-500 v1.0





■ About Pro Spot

Pro Spot International specializes in quality welding and repair products for the collision repair industry. Pro Spot owns three patents for special welding equipment and applications, and works with the majority of the largest auto manufacturers in the world. Pro Spot is a proud 'MADE IN THE USA' manufacturer in Carlsbad, CA. The turnkey facility includes Design, Engineering, Machine and Sheet Metal Shops, Powder Coating, Assembly, Training and Technical Support. The Pro Spot equipment line includes resistance spot welders, aluminum & steel dent repair systems, pulse MIG welders, rivet guns and tools, dust-free sanding systems, fume extraction and more.

■ Pro Spot Training and Services

Pro Spot Distributors and Sub-Distributors are carefully selected and are well trained in the collision repair industry. We offer technical and service education at our worldwide training facilities at regular intervals so your local distributor will always be up to date and able to pass on the latest in spot welding technology to our customers.

Customer service is an important part of any investment and our distributors and sub-distributors will be there to support your technical and service needs. We have a great customer service record, we tend to keep it that way.



Pro Spot is certified by CASE and a member of the I-CAR Industry Training Alliance

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GENERAL

The IH-500 has been designed and is tested to meet strict safety requirements. Please read the following instruction carefully before operating the unit and refer to them as needed to ensure the continued safe operation of the machine.

Information provided in this manual describes the suggested best working practices and should in no way take precedence over individual responsibilities or local regulations.

The IH-500 is designed to comply with all applicable safety regulations for this type of equipment. During operation, it is always each individual's responsibility to consider:

- Their own and other's personal safety.
- The safety of the machine through correct use of the equipment in accordance with the descriptions and instructions provided in this manual.

WARNINGS AND IMPORTANT NOTICES

The following types of safety signs are used on the equipment and in Pro Spot's instruction manuals:



CAUTION

Read Instruction Manual before installing and operating the equipment.



DANGER - STRONG ELECTROMAGNETIC FIELD

Persons fitted with pacemakers or metallic implants should not operate or approach the induction heating equipment.



DANGER - HOT SURFACE

Objects heated by Induction can reach extreme temperatures and will cause burn injuries if touched. Induction Heat is not visible to the eye. Allow surfaces to cool and approach with caution.



DANGER - ELECTRIC SHOCK RISK

All electrical connections must be made by a qualified electrician.

All Service and Maintenance must be carried out by Pro Spot service personnel and service support.

Unplug the machine from the outlet before servicing, cleaning or maintenance.



CAUTION - TRIPPING HAZARD

Loose cables and hoses present tripping risks. These risks can be reduced by keeping work areas clean and organized.



WARNING - ENVIRONMENTAL

Do not operate or place the machine near water, in wet locations or outdoors.

Keeping the equipment dry will prolong the life of the equipment.

IH-500 TECHNICAL SPECIFICATIONS

Input Voltage	Single Phase 110v 50/60Hz
Output Power	500W
Adjustment Range	20% - 100%
Weight	12lbs (5.5kg)

3.0 Operating the IH-500

GENERAL

The IH-500 is a multi-purpose tool that delivers localized heat by transfer of energy to metallic objects. With Induction Heating technology, you can deliver localized heat to metals without heating non-metals such as plastics, glass, and paint. The ability to precisely deliver controlled heat makes the IH-500 ideal for Paintless Dent Repair and other routine tasks.

OPERATING

Easy to use digital controls on the front panel allow users to adjust settings for different applications.

TESTING EQUIPMENT ON SCRAP PANELS IS RECOMMENDED.

WORKING WITH EXCESSIVE POWER CAN DAMAGE PAINT. BEGIN WITH MINIMUM POWER.

ON/OFF Switch



FIG. IH-500 Back Panel

Power Control Knob



FIG. IH-500 Front Panel

Power is regulated at the Control Knob. Turn the knob as far counter-clockwise (MIN) as possible to set the induction heater at its lowest setting.

Gradually increase power by turning the knob clockwise. The knob will stop when the IH-500 reaches its highest power setting (MAX).

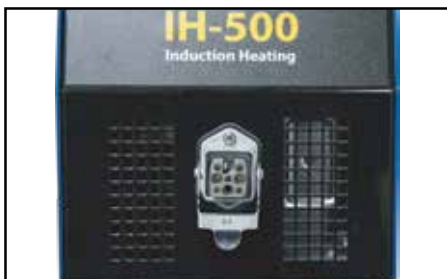


FIG. IH-500 Front Panel Connection



FIG. Line Up Holes To Connect

The IH-500 Gun and Precision Inductor can be connected to the machine on the Front Panel. Line up the slots and put in firmly to connect the necessary heating device.



Initiating Heating

- 1) Aim the Induction Gun at a metallic target.
- 2) Positioning it closely above the surface without making physical contact.
- 3) Press and hold the switch to activate induction heating.

IH-500 Gun Application

The IH-500 Gun provides great localized heat that aids in removal of one time use bolts that may have a Loctite-type coating. Bolts with this type of coating can make removal difficult without heat. The IH-500 provides a consistent safe way to apply heat to these bolts and make removal faster and easier.

IH-500 Precision Inductor Application

Precision heat applied to metallics allows for easy seam sealer removal. Use the IH-500 precision Inductor with the cloth to run over seam sealer to soften.

4.0 Application

Dent Repair

The IH-500 is designed for dent pulling and dent removal. Dents and depressions such as those caused by hail can be removed with ease.

- 1) Hold the gun just above the surface of the dent, directing the gun to the outer edge.
- 2) Press and hold the switch to begin induction heating. Though invisible to the eye, Induction Heat is being delivered.
- 3) Continue holding the switch and begin moving the gun in a circular pattern around the dent. Start at the perimeter of the dent and tighten your circles moving toward the center. Do not to focus Induction Heating on a single area for an extended period of time, as that can damage the paint.
- 4) Release switch once the dent has risen.
- 5) Allow surface to cool before touching.

Note:

- Hot paint can be sensitive. Use caution to avoid damaging paint.
- Induction Heating alone cannot repair all dents. Use Induction Heating in conjunction with other techniques to repair sharp dents.



DANGER - HOT SURFACE

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