



INDUCTION HEATER

IH-5200

Instruction Manual

Version 1.0





About Pro Spot

Pro Spot International, Inc., based in Carlsbad, California, manufactures resistance spot welding equipment specializing in applications for the collision repair industry. The company began in 1986. The company owns and manages an on site machine shop, research & development department, a fabrication facility and production lines for the various welders. Pro Spot International exports its products worldwide, export sales are managed through our headquarter office. The company owns numerous patents for our ingenious application tools, machines, and procedures.

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 world wide 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 ICAR Industry Training Alliance

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1.1 SAFETY & ENVIRONMENTAL SPECIFICATIONS

The IH-5200 is designed for indoor use.

The IH-5200 is designed to operate from 10° C to 40° C.

Do not operate the unit on a slope of more than 10°.

1.2 GENERAL

The IH-5200 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-5200 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.

1.3 WARNINGS AND IMPORTANT NOTICES

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

  <p>Caution. Read Instruction Manual.</p>	  <p>Attention! Lire Mode d'Emploi.</p>
 <p>Prohibited. Prohibits behaviour that can cause injury.</p>	 <p>Interdit. Interdit aux comportements qui peuvent provoquer des blessures.</p>
 <p>Command. Calls for a specific action.</p>	 <p>Commande. Appelle a une action spécifique.</p>
 <p>Warning. Notice of personal injury risk and or damage to equipment.</p>	 <p>Avertissement. Avis de risque de blessure personnelle et / ou d'endommager l'équipement.</p>
 <p>Warning. Torch can get hot so when not using, Place back in holster, and do not touch.</p>	 <p>Avertissement. Certaines parties du soudeur peuvent devenir chaudes après une utilisation prolongée.</p>

The following warnings and important notices are used in the instruction manual:

	WARNING! Do not operate or place the machine near water, in wet locations or outdoors. Risk for injuries or damage to the machine.		ATTENTION! Ne pas faire fonctionner le soudeur près de l'eau, en voie humide, ou à l'extérieur. Risque de blessures ou de dommages au soudeur.
	WARNING! Do not place the machine on unstable or uneven ground. The machine might tip causing personal injuries or serious damage to the machine.		ATTENTION! Ne placez pas le soudeur sur un sol instable ou irrégulier. Le soudeur peut basculer causant des lésions corporelles ou des dommages graves au soudeur.
	WARNING! All electrical connections must be made by a qualified electrician. Risk for electrical shock.		ATTENTION! Toutes les connexions électriques doivent être faites par un électricien qualifié. Risque de choc électrique.
	WARNING! Loose cables and hoses present tripping risks. Risk for injuries.		ATTENTION! Câbles et tuyaux lâches présentent des risques de déclenchement. Risque de blessures.
	WARNING! Make sure to use safety goggles when heating. The sparks might otherwise injure the eyes.		ATTENTION! Veuillez utiliser des lunettes de soudeur sur place. Les étincelles pourraient autrement blesser les yeux.
	WARNING! Sparks from heating could start a fire. Risk for injuries.		ATTENTION! Étincelles de soudure pourraient provoquer un incendie. Risque de blessures.
	WARNING! Risk for damage to materials close to the workplace, e.g. to glass or textiles.		ATTENTION! Risque de dommages aux matériaux à proximité de la soudure, par exemple verre ou textiles.
	WARNING! For proper cooling efficiency, never operate the machine without connecting it to the compressed air source.		ATTENTION! Pour refroidissement efficace, ne jamais souder sans attacher à la source d'air comprimé.
	WARNING! All service and maintenance must be carried out by Pro Spot service personnel and service support. Risk for electrical shock.		ATTENTION! Tout le service et l'entretien doivent être effectués par personnel et soutien de service Pro Spot. Risque de choc électrique.
	WARNING! Unplug the machine from the wall outlet before servicing, cleaning or maintenance. Risk for electrical shock.		ATTENTION! Débranchez le soudeur de la prise murale avant l'entretien, ou nettoyage. Risque de choc électrique.
	IMPORTANT! The machine may only be used by qualified personnel. The user of the machine must have knowledge of induction heating.		IMPORTANT! Le soudeur peut seulement être utilisé par personnel qualifié. L'utilisateur du soudeur doit avoir une connaissance de soudage par points et l'alignement des véhicules endommagés par collisions.
	IMPORTANT! Do not turn off the machine while cooling is activated!		IMPORTANT! N'éteignez pas le soudeur pendant que le refroidissement est activé!

1.4 COOLING SYSTEM

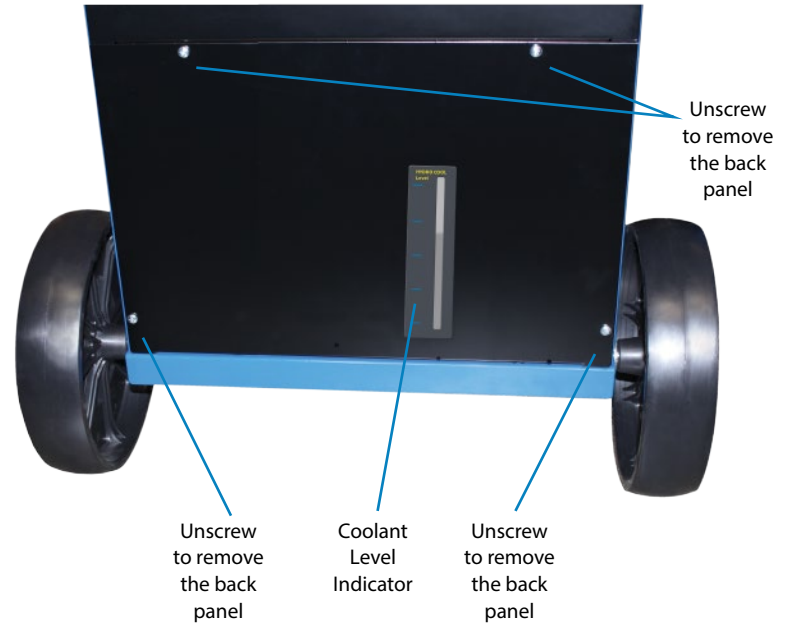
BEFORE HEATING

The IH-5200 is water-cooled all the way to the head of the torch. This protects the tool from being damaged and prolongs the life of consumables.

IMPORTANT!

The IH-5200 **COMES WITHOUT COOLANT** to ease transportation. We recommend a 50/50 mixture of antifreeze and water. Avoid contact of skin, eyes, or mouth with the antifreeze or 50/50 solution. See antifreeze directions for proper handling instructions. Be sure to fill coolant tank before turning on the induction heater.

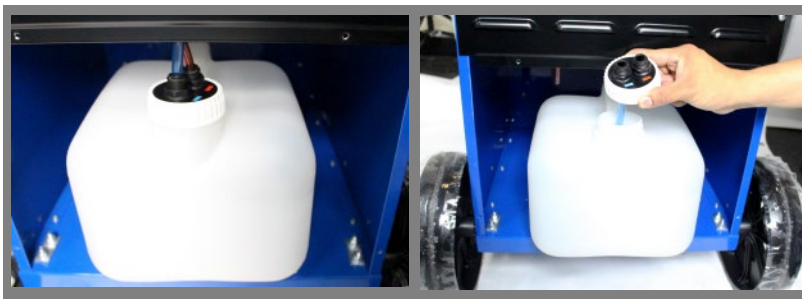
The cooling system is constantly running.



To access the fill cap, simply remove power from the IH-5200 and remove the back panel as shown above.

Coolant filling procedure

1. Disconnect hoses from top of filler cap.
2. Fill tank with water antifreeze mixture.
Install tank.
3. Re-Connect Blue hose to Blue label port and Red hose to Red label port.
4. Secure back panel to rear unit.



1.5 TECHNICAL SPECIFICATIONS

Power Supply: 220V, Single Phase, 208-240VAC 50/60 Hz

Weight: 353 lbs (160 kg)

Size: 24-½" x 31" x 41" (L x W x H)

2.3 TROUBLESHOOTING

The IH-5200 has several alerts built into its software that allow simple diagnosis of any problem you may be having.

2.3.1 COOLING SYSTEM ALERT

This error indicates that there is a problem in your cooling system. It means that there is no coolant flowing through the system.

2.3.2 OVERTEMPERATURE ALERT

This error indicates that the machine has exceeded its duty cycle. Allow time for the machine to cool down before continued use. Verify that the coolant tank is filled properly (see Section 1.4).

2.3.3 POWER ALERT

Please, contact Pro Spot technical support for more information.



2.1 FRONT PANEL

The IH-5200 features digitally controlled induction heating up to 5.2kW. See the user interface depicted below.



2.2 OPERATION

Now that you have the correct power connection, filled the coolant tank, and familiarized yourself with the user interface, you are now ready to turn on the IH-5200.

Turn the Input Breaker to the **ON** position.

2. Rotate the Heat Control button clockwise to increase the heating power. Rotate the Heat Control knob counter-clockwise to decrease the heating power.
3. Press the Heat Control button to activate the output. The machine is now enabled to heat and will activate if the trigger on the torch is pressed.
4. Hold the torch head within a half inch of a metal surface and press and hold the trigger.





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