



Instruction Manual

MNL-PR1000-REV-A



About Pro Spot

Pro Spot International specializes in quality welding and repair products for the collision repair industry. Pro Spot owns numerous patents for special welding equipment and applications, and works with 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 Customer 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 provides on-going training to all of our distributors and their technicians, therefore, all owners of Pro Spot products receive complete training first hand. Pro Spot has two ASE certified training programs that are I-CAR Alliance approved. Pro Spot has a fully equipped training facility at their Headquarters in Carlsbad, CA, as well as in Nashville, TN, and Denver, CO, for groups to come in and train on all products. To stay up-to-date, Pro Spot offers their unique my.prospot.com which includes interactive training courses for shops and technicians to access online.

Pro Spot is constantly striving to improve. Whether that means designing innovative equipment, implementing cutting edge technical support or further improving their already extensive training programs, Pro Spot is always looking for ways to better our customer's experiences.



PRO SPOT

QUALITY WELDING SYSTEMS

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1.1 BEFORE AND DURING USE

Install the machine on a leveled, firm base, in a dust/vibration free area.

Do not expose machine to water, chemicals, etc.

Do not use the machine where flammable gases are generated.

Wear protective eye gear at all times.

Use a respiratory mask to avoid inhalation of metal dust.

Avoid loose clothing and long hair near the rotating grindstone.

1.2 DURING USE



WARNING! For your safety, read this manual carefully.

- Keep your face at a safe distance from the rotating grindstone.
- Drill bits can shatter and flying debris can injure user.
- Do not put any foreign objects on the rotating grindstone
- Do not place anything between the protective housing and the grindstone.
- Be sure to switch the machine to the off position before plugging it into an outlet.
- Do not use this machine for any other purpose than the sharpening of drill bits.
- If you notice an unusual sound or smell, switch off the machine and unplug it.
- Do not use lubrication or dressing on grindstone.
- When grinding, push drill bit tips gently against the wheel. Let the wheel do the work. Too much pressure will reduce the life of the wheel.

1.3 AFTER USE



WARNING!

Do not force the rotating grindstone to stop rotating. Let it slow down automatically.

Pull the plug out of the outlet when not using the machine.



WARNING!

This machine works on AC110V 50/60 Hz.

The CBN grindstone in this machine cannot be sharpened. Replace it with a new one when the current one is abraded. Excessive sparking or burning of the tips indicates that the grindstone has reached the end of its life.

Do not use the machine continuously for 5 minutes or more. The motor stops automatically when it gets overheated. If this happens, switch the machine off to avoid an automatic restart once it cools down.

SPECIFICATIONS

Drill Diameter:	6.5mm, 8.0mm, 8.2mm, 9mm and 10mm
Point Angle:	180°
Pilot Angle:	110°
Power Supply:	110V 50/60 Hz
Watt:	65W
R.P.M. of Motor	3440
Grindstone:	CBN #170
Net Weight:	17.6lb /8.0kg
Overall Dimensions:	9"x9"x8.85"
Rated Time:	5 minutes

DRILL SHARPENER BREAKDOWN:


The Sharpening procedure consists of 3 steps:

1. Positioning of the drill bit in the collet
2. Sharpening of the horizontal surfaces
3. Sharpening of the pilot point

2.1 Positioning for 6.5, 8, 8.2, 9 and 10mm:

To prepare the drill bit for sharpening it should be properly secured in the collet.

The sharpener is delivered with 5 collets measuring 6.5, 8.0, 8.2, 9.0 and 10mm in diameter.

1. Select the proper collet for the size of your drill bit.
2. Insert collet with Allen screw directed away from the machine as far as possible into the “Positioning Port”.
3. Insert the drill bit into the collet and push until you reach the backstop. While pushing, turn the drill bit to the right until it stops.
4. Hold the drill bit in the extreme right position and fasten into the collet by tightening the Allen screw. It is VERY important to keep the drill bit in the extreme right position. Failure to do so will result in a faulty sharpening! When securing the drill bit in the collet make sure the Allen screw hits the raised part of the drill bit and not the grooved part.
5. Place the collet chuck around the collet and drill bit. Push the chuck as far as possible and turn to the right until it hits the stop. Fasten the collet chuck into position with the Allen screw. Again, make sure that the chuck and the collet are in the extreme right position before tightening the Allen screw.



2.2 Positioning of the short drill bits:

The positioning procedure for short drill bits is slightly different from the long ones.

1. Insert the appropriately sized collet with the Allen screw facing the machine until you cannot go any further into the “Positioning Port.”
2. Slide the drill bit into the collet and use the Allen wrench to push it all the way forward.
3. Grab the front of the drill bit and turn it to the right until stopped.
4. Keep the drill bit in this far right position and tighten the Allen screw. Make sure that the Allen screw hits the raised part of the drill bit and not the grooved part.
5. The collet chuck installation is the same as in step 1A.
6. The sharpening procedure is the same as in step 2.

2.3 Sharpening of the horizontal areas for 8.0, 8.2, 9.0 and 10mm:

Switch the machine on. Take the collet chuck, with the drill bit firmly installed, out of the “Positioning Port” and insert it into “Drill bit Sharpening Port”. The pin on the left side should fall in the cut-away of the chuck. Push the chuck in, then turn right and left until stopped by the pin. You should hear a grinding noise. Continue to turn the drill bit right and left until the grinding noise comes to an end. Slightly pull the chuck out, turn it 180° and repeat the procedure.

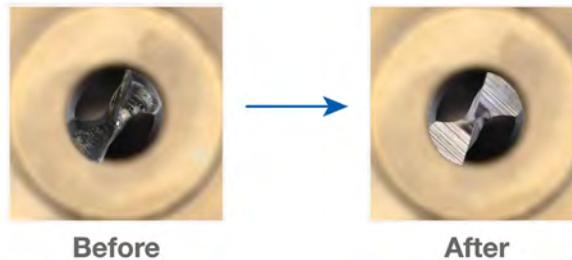


2.4 Sharpening of the horizontal areas for 6.5mm only:

Switch the machine on. Take the collet chuck with the drill bit firmly installed, out of the “Positioning Port” and insert it into the “Drill bit Sharpening Port”. The pin on the left side should fall in the pin hole of the chuck. Push the chuck in (light pressure) until the grinding noise comes to an end. Slightly pull the chuck out, turn 180° and insert the pin in the other pin hole. Apply light pressure until the grinding stops.

2.5 Sharpening of the point for all sizes:

When the grinding noise stops, pull the collet chuck out of “Drill bit Sharpening Port” and insert into “Pilot Point Sharpening Port”. The 2 pins on the left side should fall in the cut-away section of the chuck. Press lightly on the chuck. When the grinding comes to an end, rotate the chuck 180° and repeat the procedure. When the grinding noise stops, switch off the machine. The drill bit is now ready to be used again.



2.6 REPLACING THE GRINDSTONE

The Replacement of the Grindstone consists of 5 steps:

1. Remove the protective shield by loosening the 3 bolts with a 3mm allen wrench.
2. Remove the 3 bolts holding the grindstone with a 5mm allen wrench. You can use a 13mm wrench to steady the motor shaft but... NEVER loosen the central nut.
3. Remove the old grindstone and install the new one.
4. Steady the motor shaft with the 13mm wrench and fasten the 3 bolts equally.
5. Reinstall the protective housing and fasten the 3 bolts.



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