

NOSE CONE

Problem = Nose cone scratching polished surfaces when engraving.

The Metaza MPX-80, as with all engraving machines that have the option of using a 'nose cone', can suffer from '**burring**' or '**shadowing**'.

MPX-80 burring = a scuffing/marking caused by the abrasion of waste particles between the engraved surface and the nose cone.

MPX-80 shadowing = a faintly engraved mirror impression of the text/image caused by waste particles caught on the nose cone.

*Please read all of the included Operation Manuals before following our guides, and ensure you use the equipment in accordance with the manufacturer's requirements.

Recommended Remedies to Prevent Burring & Shadowing.

1. KEEP nose cone CLEAN by regularly performing the 'Cleaning' routine found in the 'Head Manager' program. Cleaning debris from the head's pins with compressed air is also a good method.
2. Ensure the green removable nose cone has no rough edges/surfaces.
3. Removing the nose cone and setting the head height manually allows the pins to hover above the engraved surface without the nose cone scuffing/shadowing on the engraved surface.
4. In extreme cases we have found covering the engravable surface with a protective film is the most effective way of protecting the polished, engravable surface. This prevents any unwanted markings on the engraved surface whilst still allowing the pin to strike the desired areas.

Other recent remedies suggested by MPX-80 users are...

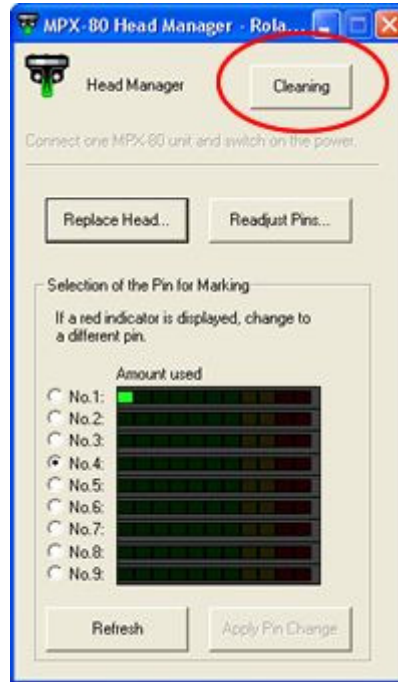
5. One user suggests removing the green nose cone and covering the contact area with sticky tape then cutting a hole in the tape to allow the pins to get through and contact/engrave. This method protects the engraving surface from the rough burring that may have built up on the nose cone's surface.
6. Spraying a silicone lubricant on the surface of the engravable surface would provide a lubricated film for the nose cone to slide over more easily...though I suspect this method could lead to a build of residue that may lead to surface scratching.

These are only suggestions and you should use whichever method you find most suitable for your particular engraving.

Head Cleaning

Page 70-74 of instruction manual

Perform the recommended cleaning tasks regularly.



Engraving without the nose cone

Page 31-32 of instruction manual

This allows the pins to hover above the engraved surface without the nose cone scuffing/shadowing on the engraved surface, BUT this means you have to set the engraving head height manually as with the MPX-70.

Failure to set the head height as per instructions could result in damaging the pins.



Using a protective film

The Film = The protective film we use is shrink wrap. This is thicker than cling film which is NOT suitable. This is available from Safestore very cheaply.



Any waste particles are prevented from marking the engraved surface by the protective film.



Example of 'shadowing'

This is an example of shadowing that can occur from waste particles getting caught on the nose cone that could then imprint an unwanted mirror image of the text on the engraved surface.



Example of 'burring'

This is an example of burring that can occur from waste particles getting caught on the nose cone that could then cause an unwanted scuffing on the engraved surface.

