HYPERTHERM®
A Hypertherm Associates Brand

HyPerformance® Plasma HPRXD®

The importance of torch maintenance

1. 

Use a clean cloth to wipe off the torch inside and outside.

2. 

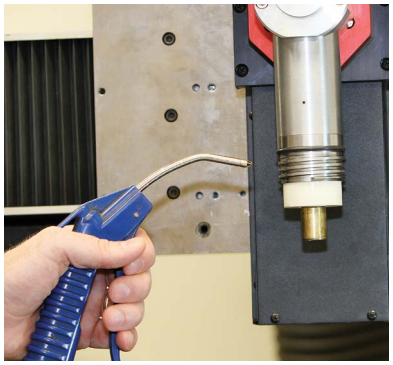
Use a cotton swab to access hard-to-reach internal surfaces.

3. 

Use compressed air to blow away any remaining contaminants.

4. 

Use compressed air to blow off all internal surfaces.

5. 

Use compressed air to blow off the coupler threads.

6. 

Apply a thin film of silicone lubricant on each external o-ring.

7. 

Inspect each of the 5 o-rings at the rear of the torch for nicks and cuts. Replace any damaged o-rings. If they are not damaged, apply a thin film of silicone lubricant on each o-ring. The o-rings should look shiny, but there should not be any excess or built-up grease.

Routine maintenance

Poor cut quality and premature failure may occur if the HPR® torch is not maintained properly.

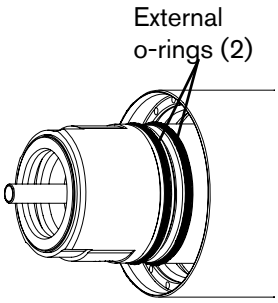
The torch is manufactured to very tight tolerances to maximize cut quality. The torch should not be subjected to hard impacts that can cause critical features to become misaligned.

The torch should be stored in a clean location when not in use, to avoid contamination of critical surfaces and passages.

Routine maintenance

The following steps should be completed each time consumables are changed.

1. Use a clean cloth to wipe off the torch inside and outside. A cotton swab can be used to access hard-to-reach internal surfaces.
2. Use compressed air to blow away any remaining dirt and debris from internal and external surfaces.
3. Apply a thin film of silicone lubricant on each external o-ring. The o-rings should look shiny, but there should not be any excess or built-up grease.
4. If consumables will be reused, use a clean cloth to wipe them off, and use compressed air to blow them off before they are installed again. This is especially critical for the nozzle retaining cap.



Front view of the torch

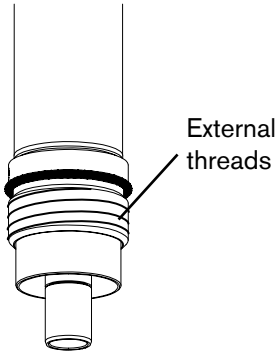
Quick-disconnect maintenance

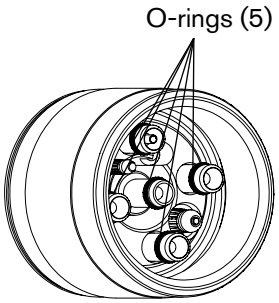
The following steps should be completed every 5-10 times consumables are changed.

5. Remove the torch from the quick-disconnect assembly.
6. Use compressed air to blow off all internal surfaces and the external threads.
7. Use compressed air to blow off all internal surfaces at the rear of the torch.
8. Inspect each of the 5 o-rings at the rear of the torch for nicks or cuts. Replace any damaged o-rings. If they are not damaged, apply a thin film of silicone lubricant on each o-ring. The o-rings should look shiny, but there should not be any excess or built-up grease.

Maintenance kit

Even with proper care, the o-rings at the rear of the torch will need to be replaced periodically. Hypertherm Associates provides a kit of replacement parts. Kits should be kept in stock and be used as part of your routine maintenance schedule. For more information and to order kits please visit Hypertherm.com/service.





Rear view of the torch

For more information, visit: www.hypertherm.com

870870

HYPERTHERM ASSOCIATES™

As 100% Associate owners, we are all focused on delivering a superior customer experience. www.hyperthermassociates.com/ownership

Environmental stewardship is one of Hypertherm Associates' core values. www.hyperthermassociates.com/environment

100% Associate-owned Greener Cuts