

# ***Hypertherm***<sup>®</sup>

## Hydraulic Fluid Tank Grounding Kit



## Installation Guide

809400 | Revision 0 | English

# ***Hydraulic Fluid Tank Grounding Kit***

## **Installation Guide**

809400  
Revision 0

English  
Original Instructions

January 2016

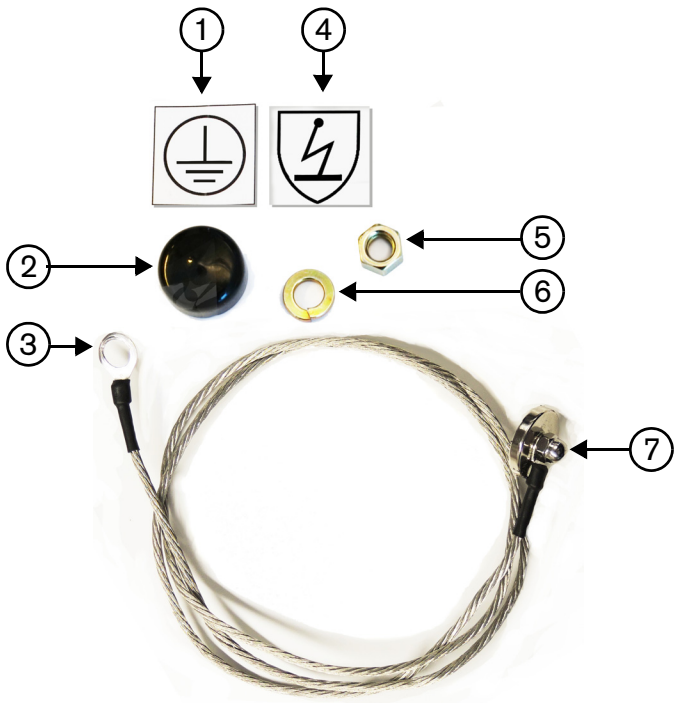
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Use this guide to install the 16233 Hydraulic Fluid Tank Grounding Kit on a HyPrecision 50S, 60S, or 75S waterjet pump.

Pumps manufactured in after December 2015 have a design modification to address the possibility of electrostatic discharge (ESD) from the hydraulic fluid tank access cover, which can occur during pump operation.

If your pump has the 16025 (orange) hydraulic oil filter and was manufactured before December 2015, use this kit to eliminate the possibility of ESD from the hydraulic fluid tank access cover.

## Hydraulic fluid tank grounding kit



- |   |                                 |   |   |
|---|---------------------------------|---|---|
| 1 | PROTECTIVE EARTH (GROUND) label | 4 | PROTECTION AGAINST STATIC ELECTRICITY label |
| 2 | Insulating end cap              | 5 | Nut   |
| 3 | Grounding strap ring terminal   | 6 | Lock washer                                 |
|   |                                 | 7 | Grounding strap magnetic end                |

The kit includes a grounding strap and an insulating end cap for protection from accidental contact with the access cover bolt. Either solution can be used.

The kit also includes:

- a lock washer and nut to attach the grounding strap to the grounding stud on the pump frame
- a label to identify the grounding point
- a label to put on the hydraulic fluid tank access cover to indicate the potential for electrostatic discharge

## Install the grounding strap

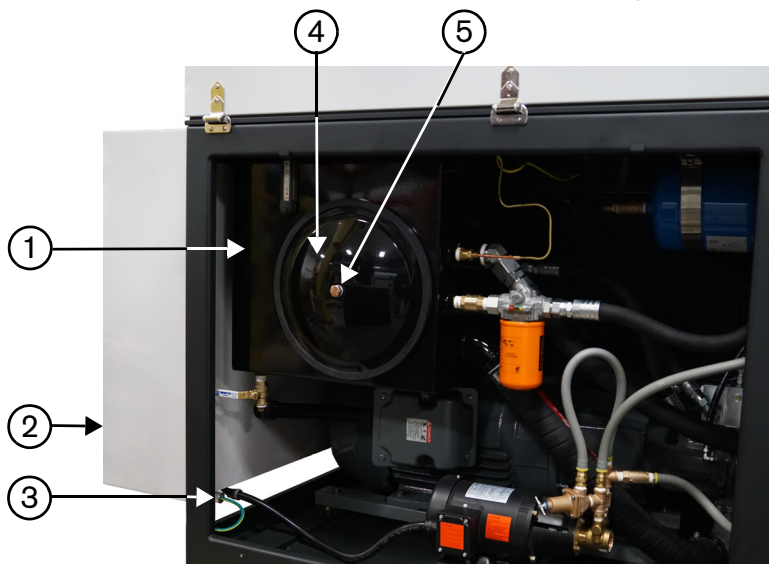
The grounding strap is the recommended solution because it discharges the static charge from the hydraulic fluid tank access cover.



### Required tools, materials, and parts

Standard 9/16-inch crowfoot wrench or socket (ring terminal nut)

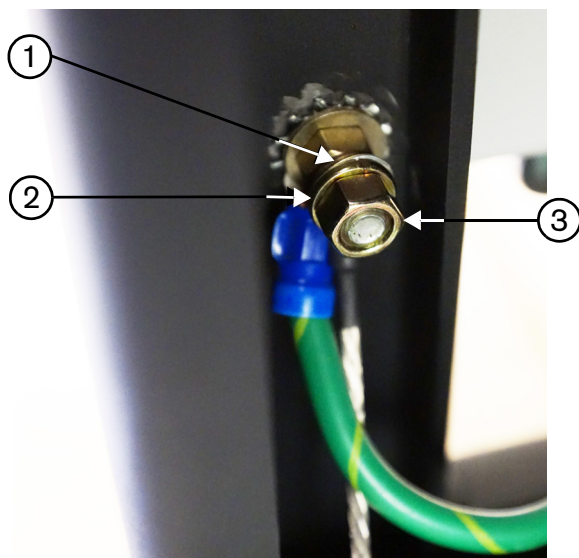
1. Turn the pump OFF. Refer to the operator manual for instructions.
2. Remove the rear pump cover.
3. Find the grounding stud on the pump frame below the hydraulic fluid tank.



- 1 Hydraulic fluid tank
- 2 Electrical enclosure
- 3 Grounding stud

- 4 Access cover
- 5 Access cover bolt

4. Put the ring terminal of the grounding strap on the grounding stud.
5. Install the lock washer and the nut. Tighten the nut on the stud.



1 Ring terminal

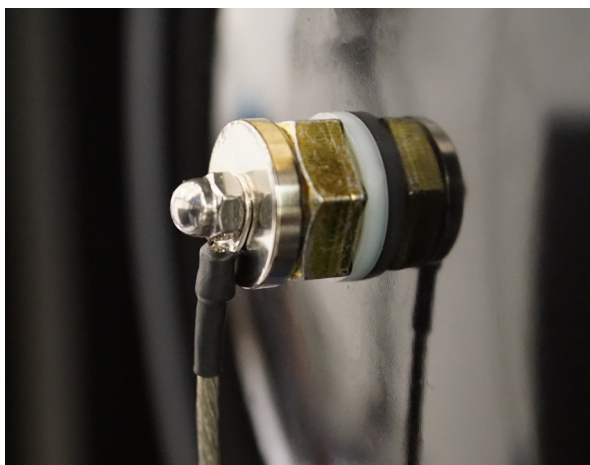
3 Nut

2 Lock washer

6. Put the magnetic end of the grounding strap on the hydraulic fluid tank access cover bolt.



The magnet is a permanent neodymium magnet that will not loosen from vibration or during shipment.



## Install the labels



### Required tools, materials, and parts

Clean, lint-free towel

Isopropyl alcohol

1. Clean the access cover with a lint-free towel and isopropyl alcohol.
2. Remove the paper backing from the PROTECTION AGAINST STATIC ELECTRICITY label. Put the label on the access cover above the bolt.



3. Clean the pump frame above the grounding stud with a lint-free towel and isopropyl alcohol.
4. Remove the paper backing from the PROTECTIVE EARTH (GROUND) label. Put the label on the pump frame above the grounding stud.



## Install the insulating end cap

The insulating end cap is an alternate solution to the grounding strap.

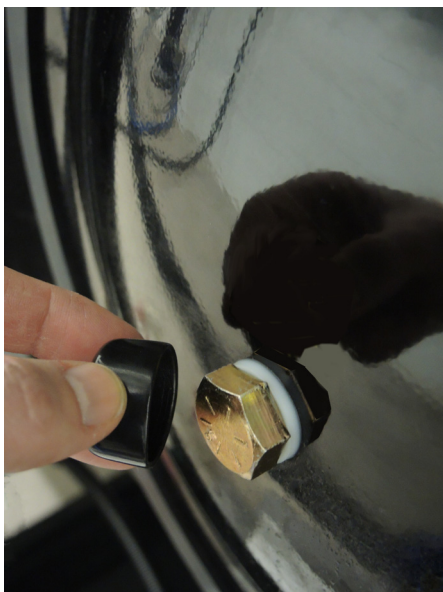


### Required tools, materials, and parts

Clean, lint-free towel

Isopropyl alcohol

1. Clean the access cover bolt with a lint-free towel and isopropyl alcohol.
2. Put the end cap over the hydraulic fluid tank access cover bolt.



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