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Nextelligence Newsletter

Issue #25

December 2024



Environmental
Solutions Group



Welcome to the Nextelligence Newsletter!

Welcome to the 25th edition of the Nextelligence Newsletter. We look forward to continuing to provide the latest news in the Nextelligence training community.



TIDMORE'S
Nextelligence Tech Tips
From Master Trainer Donald Tidmore

Curotto-Can Arm Valve Cleaning

How to remove, disassemble, clean, reassemble, and reinstall the Curotto-Can valve sections

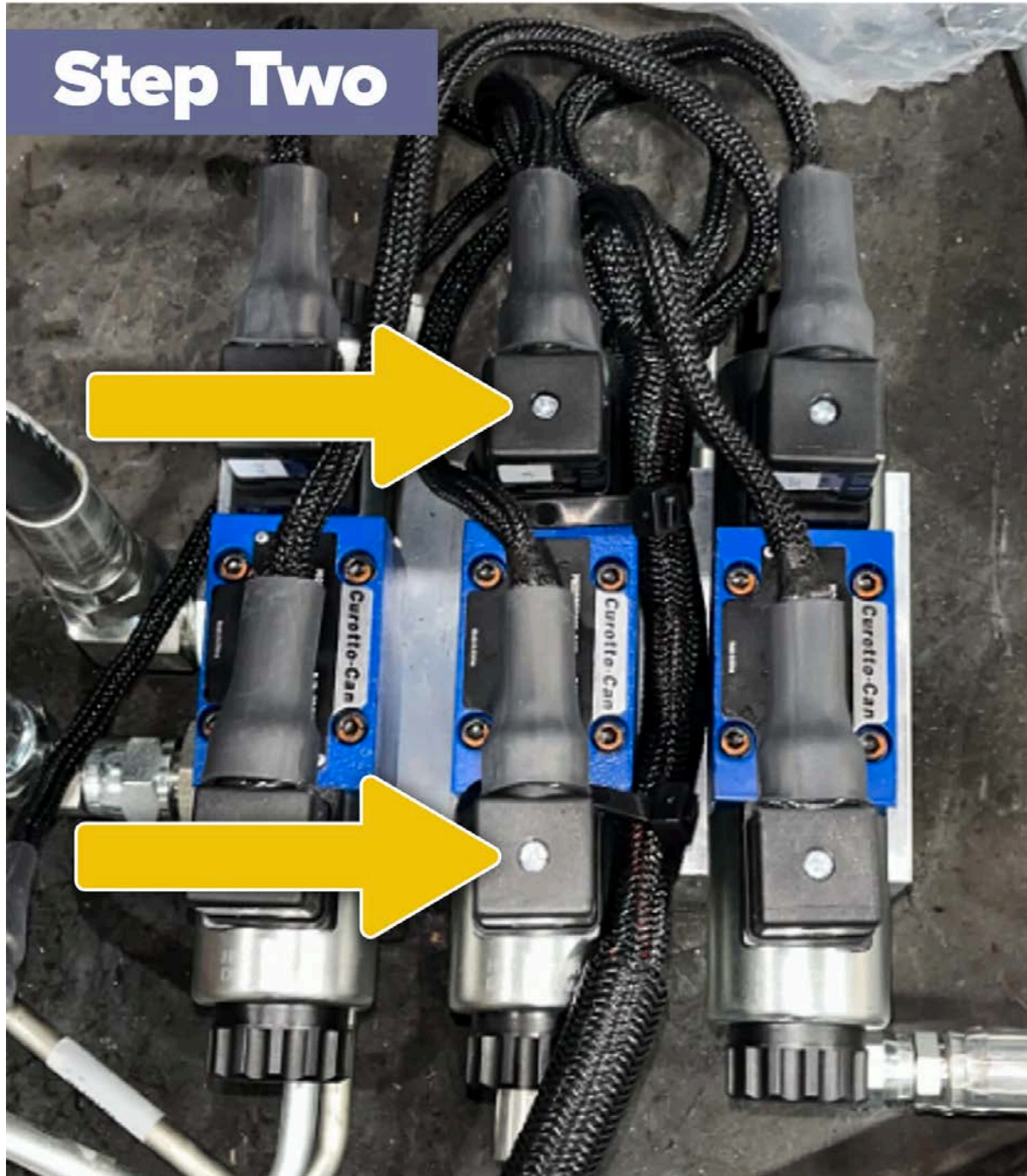
In this month's edition of the Nextelligence Newsletter we are going to discuss the cleaning of a sticking valve on a Curotto-Can valve section.

From time to time, contamination will get ingested into a hydraulic system, which can cause parts of the system to malfunction or not function at all. When contamination enters a valve section, it is sometimes necessary to disassemble the valve, clean the spool and valve section, lubricate, and reassemble. The steps below will show you how to successfully remove a valve section, clean it properly, and reinstall it into the unit.



If the Curotto-Can is installed on the front loader forks, it is recommended that the Curotto-Can be disconnected and removed from the front loader forks and placed in a quarantined work area. If this cannot be achieved, you must lock out and tag out the unit before proceeding.

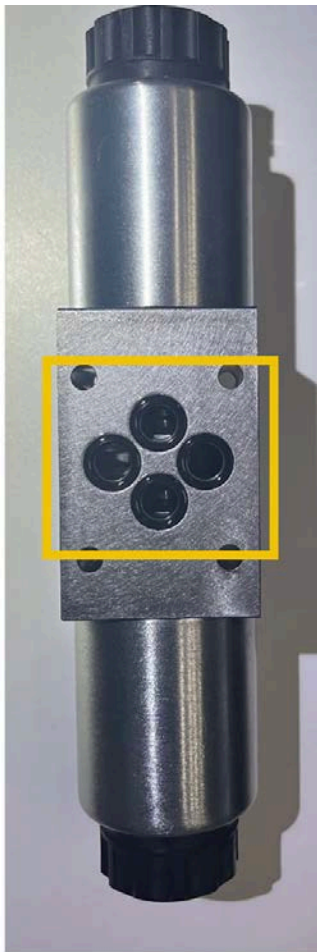
If you are unsure how to conduct a LOTO procedure, please reference your Service Manual, or you can reference the LOTO Service Shack video at: <https://vimeo.com/495883144>.



Using a #2 Phillips screwdriver, remove the screws that hold the solenoid connectors on the valve section. In this example, we will be removing the center valve section.



(4) Allen Head Bolts

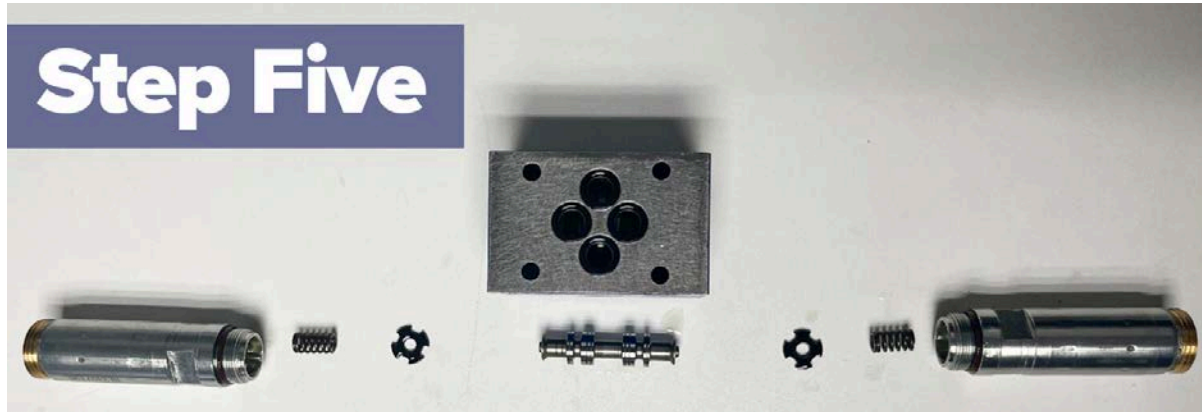


(4) O-Rings

Remove the (4) 5/32" Allen head bolts that mount the valve to the valve block assembly, being sure to capture the (4) O-rings under the valve. These O-rings will be reinstalled between the valve section and the valve block.



Using the closed end of a 1¼” combination wrench or water pump pliers, remove the solenoid nuts and O-rings from both ends of the valve housing.



Using the open end of a 19mm or ¾” combination wrench, remove the coil shaft and remove the spring from the inside of the shaft. Remove the star-shaped washer. Repeat this process for each side. Lastly, remove the valve spool from the valve body.

Step Six

Using WD-40 or an equivalent penetrating oil, spray out the valve cavity, clean the spool, and then blow out the valve cavity and spool with clean, dry compressed air.

Step Seven

Reassemble by replacing the valve spool in the valve body. Replace the star washer at one end of the valve, place the spring in the valve stem, and tighten the stem to 3 ft-lbs. Repeat the process for the opposite side.

Step Eight

Replace the solenoids and O-rings and tighten the solenoid nuts to 2.2-3.0 ft-lbs.

Step Nine

Repeat steps #1-8 as needed for other contaminated or sticking valve sections.

Step Ten

Before reinstalling the valve section, flush the hydraulic system as needed to ensure it is clean and contaminant-free.

Step Eleven

Once the hydraulic system is clean, complete the installation by reinstalling the valve assembly on the valve block with the (4) Allen head bolts and tightening to 5.9 ft-lbs +/- 10% in an X-tightening pattern.

Step Twelve

If you placed the unit in LOTO, remove the LOTO, clear the area, and test for proper hydraulic function.

Step Thirteen

If you removed the Curotto-Can from the front loader forks, reinstall it on the forks, reconnect the hydraulic and electrical connections, clear the area, test for proper functionality, and get back to picking up refuse.

Would you like to know more about The Curotto-Can, Heil Bodies, and related topics? Good news! We teach that in our Nexteligenz MAT classes. You can get in-depth training by contacting us to register for a Nexteligenz MAT class at: Nexteligenz@doveresg.com

Contact Info & Helpful Links

Miss a Newsletter?

No problem - You can now view all past Nexteligenz newsletters by visiting our Archives page.

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The 2025 Nexteligenz Training Schedule Is Here!

The 2025 Training Schedule is now available and can be viewed via the Nexteligenz webpage, or on the Heil Dealer Portal.

2025 Heil Live Online Webinar MAT Training Schedule

Online Training Dates	Product	Time
January 7th, 8th, & 9th	Half/Pack w/Odyssey Controls	2pm - 4:30pm CST
February 11th, 12th, & 13th	DuraPack Python	9am - 11:30am CST

2025 Heil Factory Training Schedule

Factory Training Dates*	Product	Time
January 14th & 15th	DuraPack Python	8am – 4pm CST
February 25th & 26th	Half/Pack w/Odyssey Controls	8am – 4pm CST

* Subject to change

** 3rd Eye training can be scheduled as a REQUESTED third half day upon request.

[VIEW FULL 2025 TRAINING SCHEDULE](#)

Nextelligence Class Registration

Feel free to contact us anytime if you have any training questions or to register for one of our training classes.

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