



Nextelligence Newsletter

Issue #28

April 2025



Environmental
Solutions Group



Welcome to the Nextelligence Newsletter!

Welcome to the 28th edition of the Nextelligence Newsletter. We look forward to continuing to provide the latest news in the Nextelligence training community.



Nextelligence Tech Tips

From Master Trainer Travis Wallen

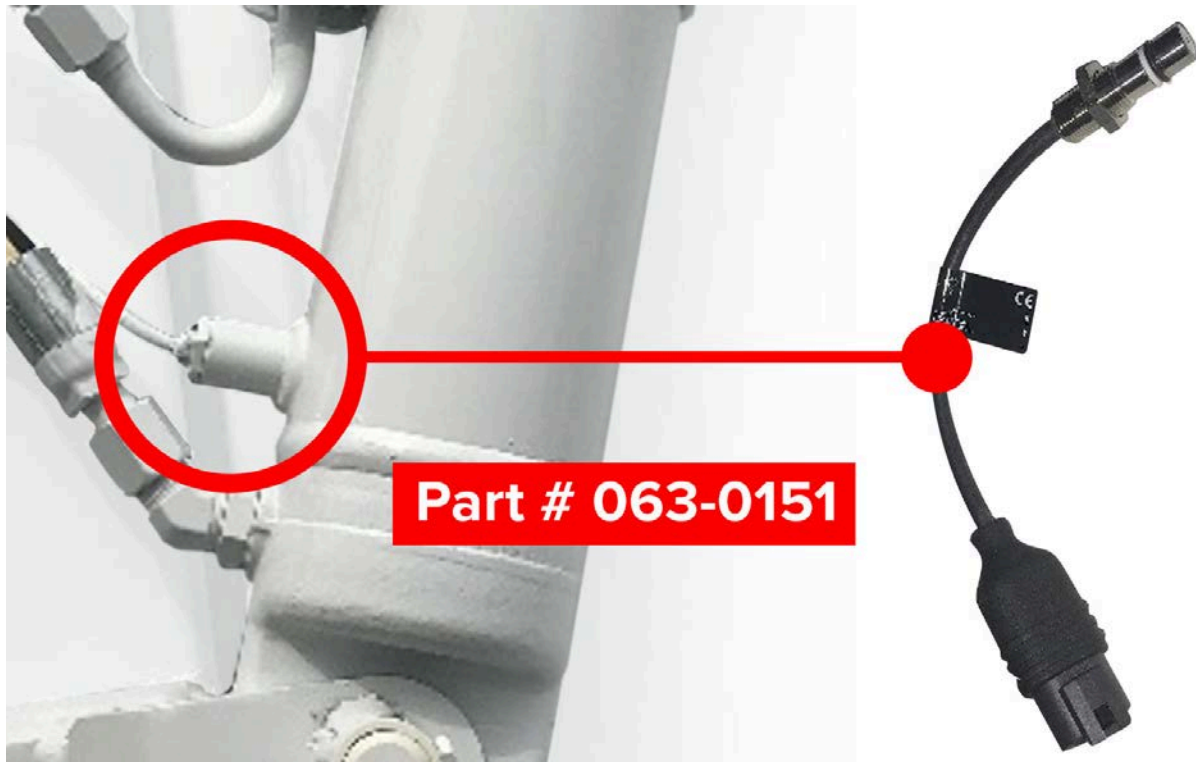
Replacing A Hydraulic In-Cylinder Proximity Switch

STEP ONE - Understanding the Switch

The proximity switches are installed in the street-side tailgate raise and lower hydraulic cylinder, the optional top door cylinder, and both tailgate lock hydraulic cylinders on all Half-Pack Front Loaders. This feature will also be added to other models in the near future.

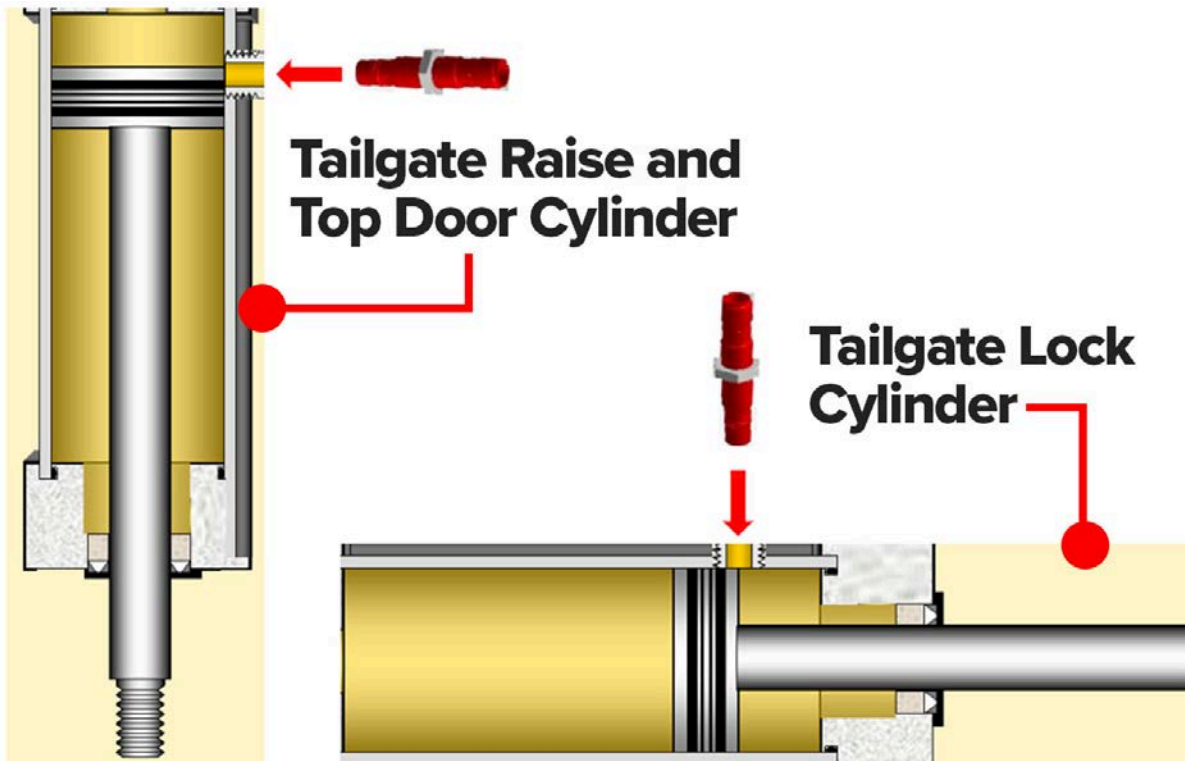
The in-cylinder proximity switches are designed to withstand the pressures present in the hydraulic system and function like other proximity switches found on different Heil collection vehicles.

This proximity switch is threaded into a port located at the base end of the street side of the tailgate raise and lower cylinder, as well as on the rod end of both the tailgate lock cylinders.



The proximity switch cable has a three-pin connection, and the wire colors are Brown (12V power), Blue (ground), and Black (signal). In the Heil harness connecting to the proximity switch connector, you will find Black (12V power), White (ground), and Orange (signal). These proximity switches detect the hydraulic cylinder piston.

The tailgate raise and lower cylinder provide the signal to the controller when the cylinder is fully retracted, indicating that the tailgate is lowered. Regarding the tailgate locking cylinders, it detects the hydraulic cylinder piston, but at the rod end. Therefore, when the locking cylinders are fully extended, it sends a signal to the controller, letting us know that the lock cylinders are engaged when locking the tailgate.



If equipped, the top door hydraulic cylinder is the last cylinder to have this type of proximity switch. The top door has a single cylinder with the proximity switch port located at the base end of the cylinder. This setup allows the signal to be sent to the controller, indicating that the top door is fully open when the proximity switch detects the cylinder piston in its fully retracted position.

STEP TWO - Replacing the Switch

When replacing the proximity switch, it's essential to position the cylinder so the internal piston is either fully retracted on the tailgate raise and top door cylinders or fully extended on the tailgate lock cylinders before removing the proximity switch. The port is a wet port and will expel hydraulic oil if the system is running and the proximity switch is removed.

Once the piston is correctly positioned, turn the system off and enter lockout/tagout mode. Chock the wheels and clear all personnel from the work area. Allow the unit to rest for a minimum of 15 minutes to allow the hydraulic oil in the cylinder to stabilize and prevent minimal oil loss from the cylinder when removing the proximity switch. Disconnect the three-pin connector from the proximity switch. Loosen the jam nut on the proximity switch, then turn counter-clockwise to remove the proximity switch.

Wipe the area to remove any debris and install the new proximity switch, turning clockwise until you feel the switch bottom out on the piston. Then, reverse the action by turning counter-clockwise a quarter to half a turn from the bottomed-out position, but no more than half a turn.

If the proximity switch is not close enough to the piston, it will give intermittent performance. Once the proximity switch is correctly positioned, tighten the jam nut to lock the proximity switch in place.

Then reconnect the three-pin connection and remove the lockout condition. Once the ignition is on, check the remote input screen to ensure the proximity switch is functioning correctly.

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

2025 Nextelligence Training Schedule

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The 2025 Training Schedule can be viewed via the Nextelligence webpage, or on the Heil Dealer Portal.

2025 Heil Online Webinar Training Schedule

Online Training Dates	Product	Time
May 27th & 28th	Rapid Rail	2pm - 4:30pm CST

2025 Heil Factory Training Schedule

Factory Training Dates*	Product	Time
April 22nd & 23rd	Half/Pack Commercial	8am – 4pm CST
May 20th & 21st	DuraPack Python	8am – 4pm CST
June 3rd & 4th	Electrical Fundamentals - Digital Multimeter	8am – 4pm CST
June 10th & 11th	Half/Pack w/ Odyssey Controls	8am – 4pm CST
June 24th & 25th	RevAMP	8am – 4pm CST

* Subject to change

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

2025 3rd Eye Online Training Schedule

3rd Eye Training Dates	3rd Eye Product Training	Delivery Method	Time
April 22nd	Camera & Digital	Webinar	12pm - 5pm CST
May 21st	Camera & Digital	Webinar	8am - 1pm CST
June 10th	Camera & Digital	Webinar	12pm - 5pm CST

2025 3rd Eye Factory Training Schedule

3rd Eye Training Dates	3rd Eye Product Training	Delivery Method	Time
April 24th	Camera & Digital	Factory	8am - 12pm CST
May 22nd	Camera & Digital	Factory	8am - 12pm CST
June 12th	Camera & Digital	Factory	8am - 12pm CST

[VIEW FULL SCHEDULE](#)

Nextelligence Class Registration

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

EMAIL TRAINING



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Connected-Tech Training



BRONZE



SILVER



GOLD



PLATINUM



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