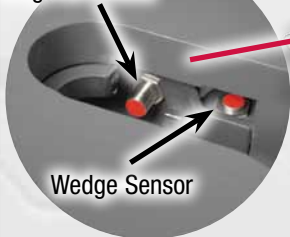


Fontaine® Fifth Wheel TechLock Electric Lock Indicator Replacement & Adjustment Instructions

King Pin Sensor



Wedge Sensor

- King Pin Sensor
- Wedge Sensor



**FOR YOUR SAFETY USE ONLY GENUINE
FONTAINE SERVICE PARTS. USING PARTS
THAT DO NOT MEET FONTAINE
SPECIFICATIONS WILL VOID WARRANTY.**

Read before replacing sensor in TechLock Electronic Lock Indicator fifth wheel.

WARNING! Failure to follow these instructions could cause a hazardous operating condition resulting in serious personal injury or death.


FONTAINE
FIFTH WHEEL®

Introduction



Warning!

WARNING! The visual inspection is required by law. Some improper couplings can pass a “tug test” and sound is not reliable to verify proper coupling. The coupling procedure is not complete without a visual inspection. It is necessary to get out of the tractor and look. Incorrect coupling could cause the trailer to disconnect, possibly resulting in serious personal injury or death.

WARNING! When coupling, the fifth wheel must lift the trailer. Always inflate the tractor suspension air bags prior to coupling. Coupling should not be attempted with the tractor suspension air bags deflated. Inflating the tractor suspension air bags while positioned underneath the trailer may result in damage to and incorrect coupling of the fifth wheel, possibly resulting in serious personal injury or death.

WARNING! Do not use any fifth wheel that has damaged components or fails to operate properly.

WARNING! Failure to follow these specifications will void the warranty and could affect product performance.

WARNING! Air cylinder(s) should not be disassembled as contents are under pressure.

WARNING! Under no circumstances should a sliding fifth wheel be repositioned while the tractor and trailer are in motion. This could result in personal injury or death.

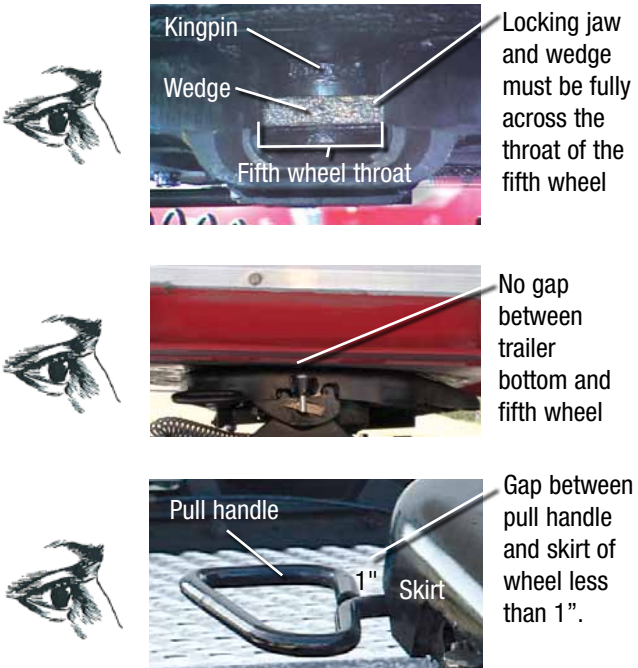
WARNING! Do not use a lube plate (high-density polyethylene) on top of the fifth wheel or kingpin bolster plate in lieu of grease without prior approval by Fontaine.

HOW TO TELL IF THE FIFTH WHEEL IS PROPERLY LOCKED – No Slack®

Verify secure coupling with a “tug test”, by easing the tractor forward, with the trailer brakes on, to feel resistance of the load. Set the parking brakes on the tractor and trailer and get out of the tractor and visually inspect, using a flashlight if necessary, that the fifth wheel is properly closed.

The locking jaw and wedge must be fully across the throat of the fifth wheel, there must be no gap between the fifth wheel and the trailer plate, and the pull handle must be within 1” or less from the skirt of the fifth wheel. All three areas of the fifth wheel must be inspected to ensure that the fifth wheel is properly coupled.

Below are three critical areas of visual inspection that drivers must perform after every couple.



If the visual inspection indicates that you failed to obtain a proper couple, open the fifth wheel, inspect for damaged components, and repeat the coupling sequence.

Introduction

The following instructions are used to correctly position the sensors in the electronic lock indicator wheel. The spacer block provided should be used to correctly position the sensor from the detection target. Any other means of setting the distance could lead to damage to the sensor or cause the sensor system to be inoperative.

WARNING: Failure to follow these instructions could cause a hazardous operating condition.

King Pin Sensor Kit

King Pin Sensor

Spacer

Loctite Tube

Wedge Sensor Kit

Wedge Sensor

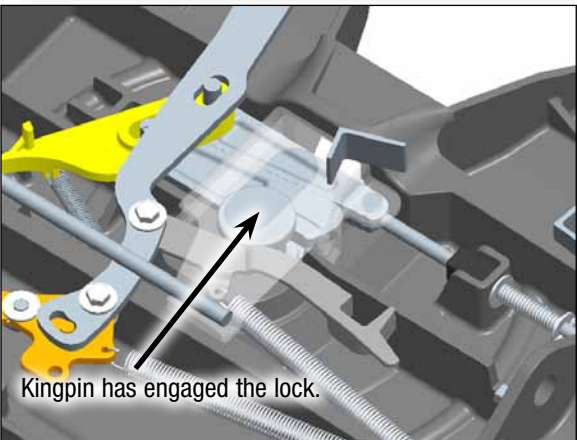
Spacer

Loctite Tube

King Pin Sensor Installation and Adjustment

Step 1

The fifth wheel needs to be completely closed around a standard king pin tool (KIT-NOSLACK-KP). This will ensure that the king pin is correctly positioned in the fifth wheel.

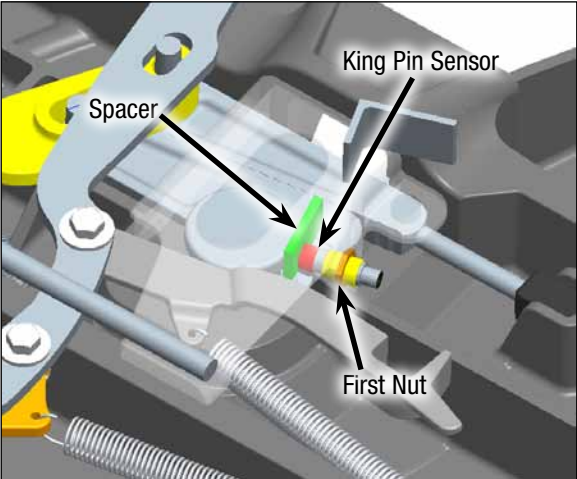


Kingpin has engaged the lock.

King Pin Sensor

Step 2

Place the provided spacer between king pin and sensor creating the correct sensing distance. Apply slight pressure to keep the spacer between the sensor and king pin. Install the first nut so that it is in contact with cover plate as shown (connection end of sensor). Apply Loctite (243) to threads where the nut will locate.

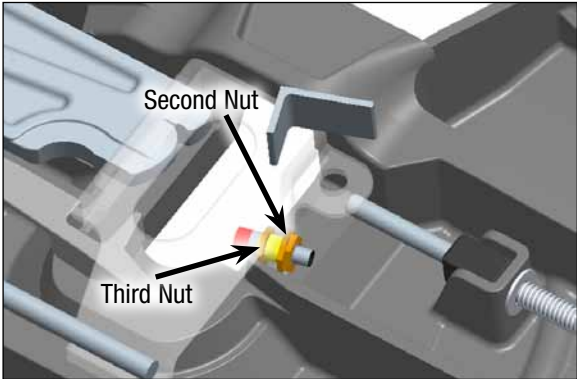


Recommended: Test fit the sensor to establish nut position prior to applying the Loctite.

King Pin Sensor

Step 3

Install second nut to jam against the first nut to set the distance. After the second nut is installed and tightened, **REMOVE THE SPRINGS** and open the fifth wheel. Remove the king pin tool. The third nut can now be installed inside the throat to secure the sensor in place. Use Loctite (243) on both second and third nut installations.

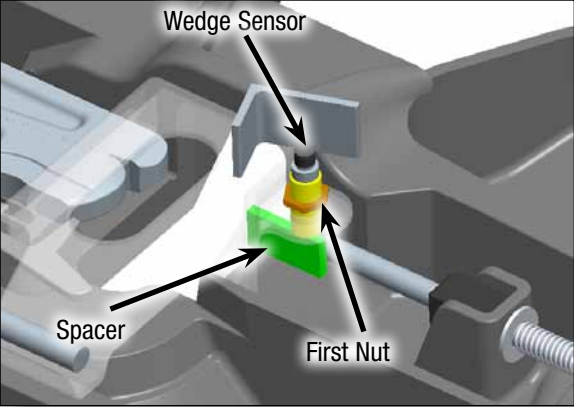


Wedge Sensor

Wedge Sensor Installation and Adjustment

Step 1

With the **SPRINGS REMOVED** and fifth wheel open, position the spacer between yoke surface and wedge sensor as shown. Install the first nut so that it is in contact with cover plate as shown (connection end of sensor). Apply permanent Loctite to threads where the nut will locate.

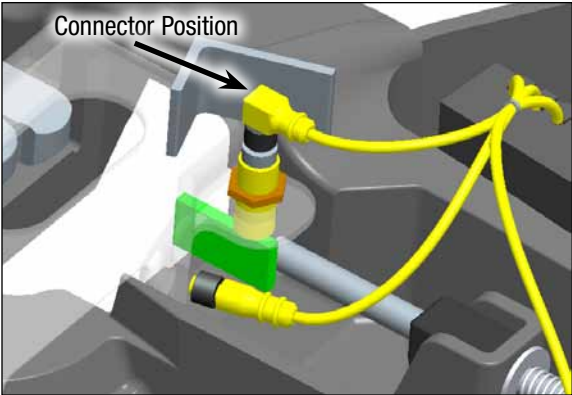


Recommended: Test fit the sensor to establish nut position prior to applying the Loctite.

Wedge Sensor

Step 2

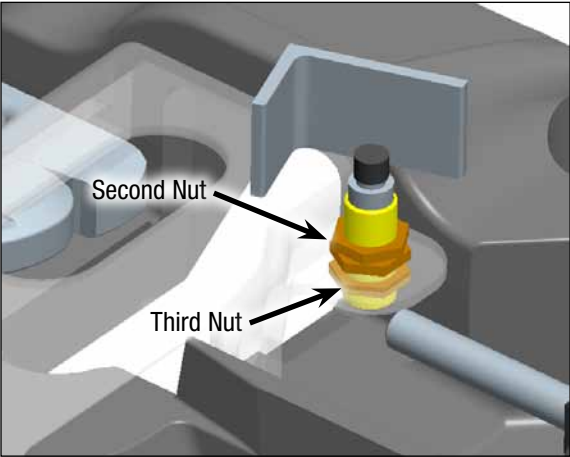
Position the sensor such that the wiring connector will allow proper routing of the cable. Note: The sensor connectors are keyed to align the pins for the connection. Observe this keying to ensure that wiring connections can be made with the supplied wire lengths.



Wedge Sensor

Step 3

Install the second nut to jam against the first nut to set the distance. After the second jam nut is installed and tightened, the third nut can be installed on the opposite side to secure wedge sensor. Again verify that the keying on the connector for wire routing. Use permanent Loctite on both second and third nut installations.



After installation of the sensors, reconnect wiring harness and move the lock to the open and closed positions without the springs to check to make sure wiring does not interfere with lock operation. Reconnect all springs and perform a fifth wheel adjustment and verify operation of sensor system.



www.fifthwheel.com

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All specifications are subject to change without notice.