



FIFTH WHEELS

OPERATING INSTRUCTIONS



Electronic Lock Indicator

12-volt system



The electronic lock indicator is a tractor/trailer fifth wheel coupling aid and is intended as an additional safety check to assure the driver of a safe and complete coupling. It does not eliminate the requirement for a visual inspection of the fifth wheel.

ALWAYS GET OUT OF THE TRACTOR CAB AND VISUALLY INSPECT THE FIFTH WHEEL COUPLING!



WARNING Failure to properly install, operate or maintain a fifth wheel may result in tractor and trailer separation which, if not avoided, could result in death or serious injury.

OPERATION

Power:.....The Electronic Lock Indicator (ELI) automatically turns on when the tractor is started and remains on until the vehicle is turned/shut off.

Start-up Displays:.....When the tractor is started, the display first performs a short system check, indicated by the brief illumination of all three display icons. After the system check, one of three displays will appear:

1. Ready to Couple.....This display indicates that the fifth wheel is in the proper position for coupling. There is not a kingpin in the fifth wheel lock and the fifth wheel lock mechanism is in the unlocked position. Follow the coupling procedure in the "Fifth Wheel Operating Instructions" that came with your fifth wheel.



Icon is yellow



Also, if you will be traveling without a trailer, this display will remain lit for approximately 17 minutes before turning off. The display will turn back on during the next coupling process, or the next time it is turned on.

2. Proper Couple.....This display indicates that the fifth wheel is properly coupled to a trailer kingpin. The kingpin is in the lock at the proper height and the lock mechanism is fully closed in the locked position. Proceed with a visual inspection. The display will remain lit for approximately 8 1/2 minutes before turning off.



Icons are green



NOTE: Although the display turns off, the ELI is still functioning normally and monitoring the fifth wheel coupling. The display will activate if an error occurs or the coupling condition changes.

3. Improper Couple.....This display indicates that the fifth wheel is not properly coupled to a trailer kingpin. This display indicates one of nine (9) error codes. Error code descriptions can be found on page 2. The unlock icon is flashing in this mode.



Icons are flashing red



* U.S. Patent #5861802, D442971, 6285278, and other patents pending.



HOLLAND HITCH FIFTH WHEEL ELECTRONIC LOCK INDICATOR DISPLAYS

ERROR CODE DIAGNOSTICS



Ready to Couple



Proper Couple
Perform visual inspection



Improper Couple
See below for Error Code Descriptions***

Error Code	Instructions to DRIVER	Instructions to TECHNICIAN	Error Code	Instructions to DRIVER	Instructions to TECHNICIAN
0	Improper couple. Review coupling procedures and repeat coupling attempt.*		7	ELI sensed the kingpin, but did not sense the locks closing within 1 second of the kingpin engaging the locks. Service fifth wheel.*	Check the lock sensor and for binding in the lock mechanism.**
1	Error appears on tractor startup. ELI senses that the locks are closed, but does not sense a kingpin.*	Check kingpin sensor and/or lock sensor and fifth wheel throat. Kingpin sensor may be bad, or too far from the kingpin. Lock sensor may be sensing something other than the lock. Check for presence of metal near the lock sensor.**	8	ELI senses that the kingpin has been missing for more than five seconds. Check kingpin position.*	Check the kingpin sensor and for presence of the kingpin.**
2	Error appears on tractor startup. ELI senses the kingpin, but does not sense that the locks are locked.*	Check lock sensor and/or kingpin sensor and fifth wheel throat. Locks may not be engaging properly, or are out of adjustment. Kingpin sensor may be sensing something else. Lock sensor may not be sensing properly.**	9	ELI senses that the lock is open and the kingpin is still present. This appears when the handle is pulled as part of a normal uncoupling procedure.*	Check the lock sensor. The handle is pulled as part of normal uncoupling procedure.**
5	Error appears after two or more coupling attempts. ELI did not sense the kingpin before the locks closed.*	Check the kingpin sensor and for improper couple.**	-	Error appears on tractor startup. ELI senses a proper couple, but remembers it wasn't properly coupled the last time it was shut down.*	Check the kingpin and/or the lock sensor. Check for binding in the lock mechanism.**
6	Error appears after two or more coupling attempts. ELI sensed the kingpin come in, but lost the kingpin when the locks closed.*	Check the kingpin sensor and for presence of the kingpin.**			

* If the fifth wheel is properly coupled and an error code still appears, contact a technician.

** If the fifth wheel is properly coupled and an error code still appears, consult Holland publication XL-FW509 — "ELI Troubleshooting Guide".

*** For displays without error codes, download of data to laptop will indicate codes occurring.

IMPORTANT: Follow the steps in the procedure below if an error code and/or redlight appears while operating the vehicle.

PROCEDURE

1. Pull over as soon as possible following normal safe driving procedures.
2. Perform a visual inspection referring to the Operating Instructions included with your fifth wheel.
3. If the visual inspection indicates that the fifth wheel is properly coupled.
 - A. Report the incident per your company's procedures.
 - B. Continue driving.
4. If the visual inspection indicates an improper couple.
 - A. Report the incident per your company's procedures.
 - B. Recouple referring to the coupling procedures in the Operating Instructions included with your fifth wheel.



WARNING An improperly coupled tractor and trailer may separate while in use which, if not avoided, could result in death or serious injury.

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