

### Subject: Automatic Tailgate Locking Tailgate Sensors/Dash Warning Lights

This maintenance instruction has been released to assist in the fault finding when the automatic locking warning lights in the cab are not working. It is important that the automatic locking installation is maintained to ensure proper operation.

If the warning lights for the automatic tailgate locking system are not illuminated when the paddles are open, do the following:

Guidance on how to carry out each procedure is on the following pages. Steps must be carried out in the order below.

#### 1. Check sensors are operational.

- a. Follow guidance on Procedure 1.
  - i. **lights illuminated** – sensors out of alignment. *Go to Step 3.*
  - ii. **lights not illuminated** – there is a problem. *Go to Step 2.*

#### 2. Install test plug.

- a. Follow steps on Procedure 2.
  - i. **lights illuminated** – everything forward of the test plug is in good working order. *Go to Step 3.*
  - ii. **lights not illuminated** – the problem is forward of the test plug. *Go to Step 4.*

#### 3. Realign or replace the sensors.

- a. Follow steps on Procedure 3.
  - i. **lights illuminated** – sensors out of alignment, go to **step 3**.
  - ii. **lights not illuminated** – there is a problem, continue to **step 2**.

#### 4. Check condition of chassis cable.

- a. Follow steps on Procedure 4.
  - i. **lights illuminated** – chassis cable presumed damaged. Auto-electrician required to replace.
  - ii. **lights not illuminated** – chassis cable presumed to be in working order. *Go to Step 5.*

#### 5. Check fuse & bulbs.

- a. Follow steps on Procedure 5.
  - i. **lights illuminated** – issue resolved.
  - ii. **lights not illuminated** – Auto-electrician required to diagnose fault.

### Procedure 1: Check sensors are operational

- Ensure that the vehicle ignition is on.
- Locate the sensors which are fastened to the base of each air cylinder (Fig. 1)
- Have someone hold a magnet against each sensor (Fig. 1), while someone else sits in the cab to observe the dash warning lights (Fig. 2).



*Fig 1. Sensor tell-tale illuminates*



*Fig 2. Check if warning light illuminates*

- If the lights illuminate, the system is functional. The sensors are most likely out of alignment and must be realigned. **Go to Step 3.**
- If the lights do not illuminate, there is a problem, further fault finding is required. **Go to Step 2.**

### Procedure 2: Install the test plug

- Tip the body, prop the body, and then turn the ignition off.
- Trace sensor cables back until you locate the plug that connects to sensors to the chassis cable, this should be just in front of the tipping hinge bar and may be inside split conduit.
- Unplug the sensors and plug the test plug into the chassis cable.
- Turn the ignition on. Check to see if both dash warning lights are illuminated.



*Fig 1. Locate sensor plug*



*Fig 2. Chassis cable*



*Fig 3. Install test plug*



*Fig 4. Check if warning lights illuminate*

- If the lights illuminate, everything forward of the test plug is in good working order. **Go to Step 3.**
- If the lights do not illuminate, the problem is forward of the test plug. **Go to Step 4.**

### Procedure 3: Realign or replace the sensors

- Remove test plug if plugged in and plug the sensors back into the chassis cable.
- Ensure sensors are operational. Ignition on. Hold a magnet against each sensor. A red tell-tale LED should illuminate (Fig. 1), if it does not the sensor(s) should be replaced.
- After ensuring that the sensors are operational, ensure that the tailgate is in open position and ignition is on.
- Slide the sensor in from the base of the cylinder, stop as soon as the tell-tale light illuminates. Mark the position of the tell-tale LED as **A**. (Fig. 2)
- Continue to slide the sensor up the cylinder until the light goes out, pull back until the light illuminates again. Mark the position of the tell-tale LED as **B**. (Fig. 3)
- Set the sensor directly between point **A** and point **B**. (Fig. 4) Check if dash warning lights are illuminated.



Fig 1. Check sensor operation.



Fig 2. Locate point A.



Fig 3. Locate point B.



Fig 4. Set the sensor between point A and B.

- If the lights illuminate. Sensors were misaligned or faulty. **Resolved.**
- If the lights do not illuminate. **Go to Step 4.**

### Procedure 4: Check chassis cable

- Locate the 4-core cable **R B W G** (Fig. 1 & Fig. 2)

<b>DAF</b> – Behind panel adjacent right of fuse cover.	<b>Iveco</b> – Behind nearside dash panel.
<b>MAN</b> – Behind panel adjacent right of fuse cover.	<b>Mercedes</b> – Behind electrical cover.
<b>Renault</b> – Behind nearside pull-off cover.	<b>Scania</b> – Rear of factory main fuse board.
<b>Volvo</b> – Behind nearside dash Panel.	

- On the cab side, bridge red to white and then brown to green. (Fig. 3)
- Check if dash warning lights are illuminated.



Fig 1. Locate 4-core cable/passenger footwell.

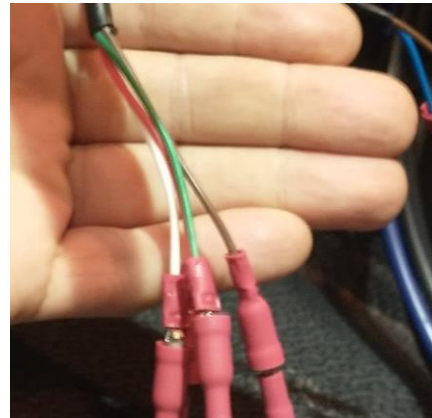


Fig 2. Locate 4-core cable.

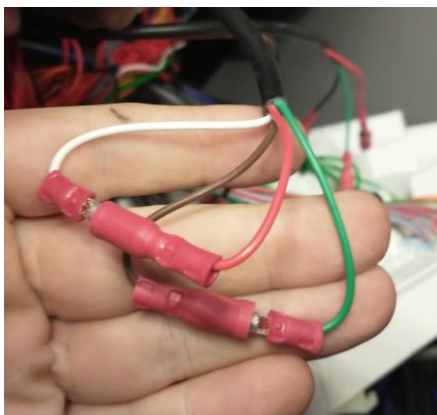


Fig 3. Bridge R-W & B-G



Fig 4. Check if warning lights illuminate

- If the lights illuminate. The chassis cable is presumed damaged. **Auto-electrician required to replace.**
- If the lights do not illuminate. **Go to Step 5.**

### Procedure 5: Check fuse and bulbs

- Check to see if 5A fuse is in good working order, replace if not.
- Check if dash warning lights are illuminated.
- If the lights illuminate. The fuse was at fault. **Resolved.**
- If the lights do not illuminate, replace the bulbs.
- Check if dash warning lights are illuminated.
- If the lights illuminate. The light(s) were at fault. **Resolved.**
- If the lights do not illuminate, call 01744 752 202 for further assistance or seek advice from an auto-electrician.



Fig 1. 5A fuse.



Fig 2. Light for Iveco, Mercedes, MAN, Scania  
Dun-Bri Part No. 210.065R



Fig 3. Light for DAF, Renault and Volvo  
Dun-Bri Part No. 270.611503



Fig 4. Check if warning lights illuminate