This is a step-by-step guide to diagnose and repair the most common AutoDeploy field issues. If at any time you would like direct phone support, please call STEMCO Customer Support at 888-283-8245 x2.

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Specific Issues

TrailerTail opens part way, but **not** into its fully deployed shape

A1) *Acceptable stall during deployment* - If a manual pull or tug on the lateral panel is needed to assist TrailerTail deployment, but the panels open the last half of the way into their deployed position without driver assistance, no adjustment is needed. TrailerTails intentionally have an initial low-force automated opening for driver safety and ergonomic closing; on-road acceleration and vibration forces will quickly overcome this stall and fully deploy TrailerTails.

A2) *Gas spring inspection* - Manually pull the TrailerTail into its deployed position and let go. If the panels fold inwards towards the trailer door at all, the gas spring has most likely lost pressure. Remove the gas spring - if you are able to compress it by hand with less than 60-lbs of force, order a replacement.

A3) *(TrailerTail Trident only) Limit cable inspection* - Inspect the TrailerTail in its deployed position - if the carabiner is twisted, rotate it to its correct position (shown below). This will allow the TrailerTail to deploy the last few inches.

A4) *Tie-rod inspection* - If driver needs to manually pull the TrailerTail panels all the way into the deployed position due to major resistance in the opening system, remove both tie-rods and try to rotate the rod ends. If this rotation is impossible or very difficult, order replacement(s).
TrailerTail does not open at all (one or both sides)

Step 1: Mechanical check at rear of the trailer

B1) *Secondary cable latch inspection* - If a cable is holding the panels closed (shown below), unclip the carabiner. A secondary cable latch should only be used during rail transport or on the front trailer of a long combination vehicle (LCV).

![Secondary cable latch inspection](image1)

B2) *Striker bolt & latch misalignment* - If the striker bolt (shown below) binds against the latch when released, loosen the jam nuts with two ½” wrenches and adjust its location within the slot bracket until it is centered within the latch. If binding exists after this adjustment, inspect the latch and striker bolt bracket. If either are deformed, bend back into shape or replace.

![Striker bolt & latch misalignment](image2)

B3) *Broken latch trigger* - If a broken trigger (circled below) makes it too difficult for a driver to manually release the latch, order a replacement.

![Broken latch trigger](image3)

B4) *Ice build-up* - If the latch is frozen shut with ice, carefully break any external ice off the latch and then firmly slide the trigger open with one hand while **at the same time** pulling the TrailerTail lateral panel away from the door with the other. (Note: For latches with a red knob and cable, pull down firmly on the red knob while pulling outwards on the lateral panel.) If still needed, bring the trailer inside into a heated bay to allow the ice to melt. Do NOT apply a heat torch directly to the latch - internal components can be permanently damaged.
Step 2: Visual check of electrical components

B5)      *Latch connector inspection* - Confirm that latches are plugged into the main wire harness on both panels.

![Latch connector](image)

With heat shrink

B6)      *Wire harness inspection* - Look at AutoDeploy wires from the front to rear of trailer to confirm that no wires have been cut or damaged. No wires should be rubbing against sharp or bare metal.

![Wire harness](image)

B7)      *Radar speed sensor inspection* - Look under the trailer at the AutoDeploy radar speed sensor to confirm that it is plugged in, oriented correctly (left image), and there is no coiled wire nearby that could cause electromagnetic interference (right image).

![Radar speed sensor](image)

Correct radar speed sensor orientation
Step 3: Electrical Functionality Check

B8) (Preferred) *Complete Diagnostic Procedure* - If you have an AutoDeploy Diagnostic Tool (P/N ATD001561, image below) onsite, please turn to page 8.

B9) *Limited Diagnostic Procedure* - If not, there are still several inspections that can uncover a field issue without requiring a separate diagnostic tool. Please turn to page 18.

**TrailerTail does not latch closed**

C1) *Striker bolt & latch misalignment* - If the striker bolt (shown below) binds against the latch when closing, loosen the jam nuts with two ½” wrenches and adjust its location within the slot bracket until it is centered within the latch. If binding exists after this adjustment, inspect the latch and striker bolt bracket. If either are deformed, bend back into shape or replace.

C1.5) *Dislodged torsion spring* - Inspect torsion spring within latch. If the spring leg is not connected to the latch cam knob as shown below, the torsion spring is dislodged. With a small flat-head screwdriver or pliers, bend the torsion spring leg back into place as shown below and confirm that the latch now opens and closes properly.
C2) *Electrical latch reset (type 1)* - Connect the trailer J-box to clean 12V power from a battery or tractor unit while both sides of the TrailerTail are deployed. In some instances, the latches will automatically reset themselves and be able to latch closed.

C3) *Electrical latch reset (type 2)* - Disconnect the radar speed sensor and plug the AutoDeploy Diagnostic Tool (P/N ATD001561) into the main wire harness (while the J-box is still powered). In some instances, the latches will automatically reset and be able to latch closed. If this occurs, there is an issue with your radar speed sensor and a replacement should be ordered (see image below for P/N instructions). If you do not have an AutoDeploy Diagnostic Tool onsite, a new radar speed sensor can be used for this reset attempt (type 2).

C4) *Complete Diagnostic Procedure* - If you have an AutoDeploy Diagnostic Tool (P/N ATD001561, image below) onsite, please turn to page 8.

C5) *Limited Diagnostic Procedure* - If not, there are still several inspections that can uncover a field issue without requiring a separate diagnostic tool. Please turn to page 18.

**TrailerTail latches open electronically at unintended times**

D1) *Early version of radar speed sensor* – Inspect the radar speed sensor’s electrical connector. If there is no overmold present, it is an earlier version and should be replaced with a current version radar speed sensor.

D2) *Complete Diagnostic Procedure* - If you have an AutoDeploy Diagnostic Tool (P/N ATD001561, image below) onsite, please turn to page 8.

D3) *Limited Diagnostic Procedure* - If not, there are still several inspections that can uncover a field issue without requiring a separate diagnostic tool. Please turn to page 18.
TrailerTail driver light does not work properly

E1) *Early version of radar speed sensor* – Inspect the radar speed sensor’s electrical connector. If there is no overmold present, it is an earlier version and should be replaced with a current version radar speed sensor.

![Early version vs Newer version](image)

E2) *Light is too bright or distracts driver* - Rather than switching to a dimmer light (which is unlikely to alert a driver during the daytime if they are reversing with an open TrailerTail), a firmware update is available that automatically turns the light off after 60 seconds when a TrailerTail is closed. Please call STEMCO to learn more or order [ATD001902] – AD VSC Firmware Flasher.

E3) *Complete Diagnostic Procedure* - If you have an AutoDeploy Diagnostic Tool (P/N ATD001561, image below) onsite, please turn to page 8.

E4) *Limited Diagnostic Procedure* - If not, there are still several inspections that can uncover a field issue without requiring a separate diagnostic tool. Please turn to page 18.
Complete Diagnostic Procedure

Note: This procedure diagnoses electrical issues with an AutoDeploy system. Please refer to the Specific Issues portion of this manual for mechanical trouble-shooting.

Section 1:
- Open both sides of the TrailerTail.
- Hook the J-box up to battery power or a running tractor. *(Do not use a battery charger or bad power supply, clean 12V signal is required)*
- Disconnect the radar speed sensor and plug in the AutoDeploy Diagnostic Tool.

Is the green light on the tester on?
- **IF YES** – Move to next step.
- **IF NO** – The main power or ground line is cut or shorted and not providing power (Pin 1 Power / Pin 12 Ground). There is either a cut in the wire harness or the system is not properly wired to the J-box. Find and fix the fault before proceeding.

Section 2:
- Close both sides of the TrailerTail.
Do the latches immediately release (or not latch at all) when you try closing the TrailerTail?

IF NO – Move to next step. The latches are supposed to latch and stay closed.

IF YES – Pin 10 is shorted to power and holding the latches open. The problem may be in the harness or latch. Temporarily replace the latch to identify the problem location.

Does replacing the problem latch fix the issue?

IF YES – The latch should be replaced. Re-do test to confirm proper function.

Replacement latch ordering information:
[ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or
[ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

IF NO – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information:
[ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or
[ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

- Return to AutoDeploy Diagnostic Tool under the trailer.

Does the breaker immediately trip?

IF NO – Move to next step.

IF YES – The power to the light or the power to the latches is shorted to the trailer chassis/ground (Pin 2 or Pin 11). Check Pin 2 and Pin 11 for short to ground (Pin 12).

IF PIN 2 SHORTS – Open J-box and disconnect light and check for short again. Is short still present?

IF YES – The issue is with the harness. Fix or replace the harness:
[ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit

IF NO – The issue is with the light. Fix or replace the light:
[ATD000719] – ASY Warning Light

IF PIN 11 SHORTS – Disconnect both latches. Is short still present?

IF YES – The issue is with harness. Fix or replace harness.

Replacement harness ordering information:
[ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or
[ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

IF NO – The issue is with the latch. Fix or replace latch.

Replacement latch ordering information:
[ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or
[ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS
Is the red light on?

**IF YES** – Move to next step.

**IF NO** – The ground line to the latches or the sensor return from the short latch wire is cut (Pin 3 or 4). The problem may be in the harness or the latch. Replace the latch temporarily and re-check. Does this fix the problem?

**IF YES** – The latch should be replaced. Re-do test to confirm proper function.

Replacement latch ordering information:
- [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS
- [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

**IF NO** – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information:
- [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or
- [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

Is the yellow light on?

**IF YES** – Move to next step.

**IF NO** – The ground line to the latches or the sensor return from the long latch wire is cut (Pin 3 or 9). The problem may be in the harness or the latch. Replace the latch temporarily and re-check. Does this fix the problem?

**IF YES** – The latch should be replaced. Re-do test to confirm proper function.

Replacement latch ordering information:
- [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS
- [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

**IF NO** – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information:
- [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or
- [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

Is the driver warning light on?

**IF YES** – Move to next step.

**IF NO** – The power wire to the light is cut or not hooked up correctly (Pin 2). Check for 12V at the red wire (from the AutoDeploy harness) at the front of the trailer. Do you read 12V across ground and the red wire in the J-box?

**IF YES** – The light or light wire is damaged and should be fixed or replaced. Re-do test to confirm proper function. Replacement light ordering information:
- [ATD000719] – ASY Warning Light

**IF NO** – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information:
- [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit
Section 3:
- Press the switch on the diagnostic tool.

Does the TrailerTail deploy?
  IF YES – Move to next step.
  IF NO – A wire to one of the latches is damaged (Pin 3, 10, or 11). Temporarily replace the latches one at a time and check to see if the issue is fixed. Does this fix the problem?
    IF YES – The latch should be replaced. Re-do test to confirm proper function. Replacement latch ordering information:
    [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or
    [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS
    IF NO – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information:
    [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or
    [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

Does the breaker trip when you press the switch?
  IF NO – Move to next step.
  IF YES – The control wire to the latch is shorted to the trailer chassis and needs to be fixed (Pin 10). Temporarily replace the latches one at a time and check to see if the issue is fixed. Does this fix the issue?
    IF YES – The latch should be replaced. Re-do test to confirm proper function. Replacement latch ordering information:
    [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or
    [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS
    IF NO – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information:
    [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or
    [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)
Does the red light go out?

**IF YES** – Move to next step.

**IF NO** – Pin 4 of the latch wires is shorted to the chassis somewhere and needs to be fixed. The problem may be in the harness or the latch. Replace the latch on the shorter wire side temporarily and re-check. Does this fix the problem?

- **IF YES** – The latch should be replaced. Re-do test to confirm proper function. Replacement latch ordering information: [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS
- **IF NO** – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information: [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

Does the yellow light go out?

**IF YES** – Move to next step.

**IF NO** – Pin 9 of the latch wires is shorted to the chassis somewhere and needs to be fixed. The problem may be in the harness or the latch. Replace the latch on the longer wire side temporarily and re-check. Does this fix the problem?

- **IF YES** – The latch should be replaced. Re-do test to confirm proper function. Replacement latch ordering information: [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS
- **IF NO** – The problem is in the harness and should be fixed or replaced. Re-do test to confirm proper function. Replacement harness ordering information: [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

Does the driver warning light turn off when you press the switch and back on when you release? A 2\textsuperscript{nd} person is needed to watch light while the switch is pressed.

**IF YES** – Move to next step.

**IF NO** – Is the red light wire properly hooked to the red harness wire in the J-box?

- **IF YES** – The problem is with the harness. Fix or replace the harness and re-do test to confirm proper function: [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit
- **IF NO** – The assembly in the J-box should be fixed. Re-do test to confirm proper function.
Section 4:
All supporting systems except the radar speed sensor steps have been successfully tested without issue. It is now time to check the radar speed sensor’s functionality.

- Open both sides of the TrailerTail.
- Disconnect the AutoDeploy Diagnostic Tool and plug in the radar speed sensor.
- Hook the J-box up to battery power or a running tractor. 
  *(Do not use a battery charger or bad power supply, clean 12V signal is required)*

Did the driver warning light turn on for 3 seconds and then turn off?

**IF YES** – Move to next step.
**IF NO** – Temporarily replace the radar speed sensor if another is available. Does the driver warning light now turn on for 3 seconds and then turn off during power up?

**IF YES** – The original radar speed sensor was damaged. Order a new radar speed sensor using the part numbers below:

- [ATD002411] - ASY VSC+
- [ATD002413] - ASY VSC+, OEM

**IF NO** – The tractor/battery is not supplying clean power to the AUX line. Call STEMCO Customer Support for further assistance.
• Leave the roadside (RDS) of the TrailerTail open.
• Close the curbside (CBS) of the TrailerTail.

**Is the driver warning light off and does it stay off?**

**IF YES** – Move to next step.

**IF NO** – Temporarily replace the radar speed sensor if another is available. Does the driver warning light now turn on for 3 seconds and then turn off during power up?

**IF YES** – The original radar speed sensor was damaged. Order a new radar speed sensor using the part numbers below:

- [ATD002411] - ASY VSC+
- [ATD002413] - ASY VSC+, OEM

**IF NO** – The tractor/battery is not supplying clean power to the AUX line. Call STEMCO Customer Support for further assistance.

• Close the roadside (RDS) of the TrailerTail.
• Open the curbside (CBS) of the TrailerTail.

**Is the driver warning light off and does it stay off?**

**IF YES** – Move to next step.

**IF NO** – Temporarily replace the radar speed sensor if another is available. Does the driver warning light now turn on for 3 seconds and then turn off during power up?

**IF YES** – The original radar speed sensor was damaged. Order a new radar speed sensor using the part numbers below:

- [ATD002411] - ASY VSC+
- [ATD002413] - ASY VSC+, OEM

**IF NO** – The tractor/battery is not supplying clean power to the AUX line. Call STEMCO Customer Support for further assistance.
• Leave the roadside (RDS) of the TrailerTail closed.
• Close the curbside (CBS) of the TrailerTail.

Does the driver warning light turn on for 60 seconds?
*Note: When both sides of the TrailerTail are closed, the driver warning light will turn off after 60 seconds or as soon as the vehicle reverses (even by things moving near it). You can restart the driver warning light sequence by opening and closing the TrailerTail again.*

IF YES – Move to next step.
IF NO – Temporarily replace the radar speed sensor if another is available. Does the driver warning light now turn on for 3 seconds and then turn off during power up?

IF YES – The original radar speed sensor was damaged. Order a new radar speed sensor using the part numbers below:

IF NO – The tractor/battery is not supplying clean power to the AUX line. Call STEMCO Customer Support for further assistance.

• Inspect the radar speed sensor to determine whether it includes self-diagnosis firmware. Indicators of radar speed sensors with this firmware include:
  - An overmolded electrical connector with three lines
  - A green sticker or yellow sticker with black dot on the label
  - A serial number that ends in C09 or higher
Does the radar speed sensor include self-diagnosis firmware?

**IF YES** – Move to next step.

**IF NO** – Contact STEMCO Customer Support to obtain [ATD001902] – *AD VSC Firmware Flasher*, which adds self-diagnosis firmware to the radar speed sensor.

- Read through all 6 steps below and then complete. Be sure to complete Steps 3 through 5 in rapid succession.

**STEP 1**: This test takes 2 people. One at the J-box and one at the rear.

**STEP 2**: Open roadside of TrailerTail or whichever side is connected to the short leg of the harness. Trial and error can be used to determine which is which.

**STEP 3**: Plug power into the j-box (AUX / Blue line power needed).

**STEP 4**: Light will come on for 3 seconds. Step 5 must be completed in those 3 seconds for the test to function.

**STEP 5**: Fully open and close the latch 3 times. Just the latch, not the whole TrailerTail. Hold the trigger (green arrow) and fully cycle the cam (red arrow).

**STEP 6**: The other side of the TrailerTail will open on its own and you should feel the latch click in your hand.
Does the self-diagnosis firmware procedure complete successfully (Step 6)?

**IF YES** – You have completed all sections of the Complete Diagnostic Procedure and this AutoDeploy system is fully functional. Additional confirmation can be determined by driving the trailer on the highway in excess of 35 mph. Prior to road testing, confirm your tractor unit has AUX line power – the driver warning light will turn on when power is connected at the J-box. If for some reason the TrailerTail doesn’t deploy on the road, call STEMCO Customer Support.

**IF NO** – The radar speed sensor is damaged. Order a new radar speed sensor using the part numbers below:
Limited Diagnostic Procedure

Note: This procedure diagnoses electrical issues with an AutoDeploy system. Please refer to the Specific Issues portion of this manual for mechanical trouble-shooting.

Section 1:
- Open both sides of the TrailerTail.
- Hook the J-box up to battery power or a running tractor. (Do not use a battery charger or bad power supply, clean 12V signal is required)

Did the driver warning Light turn on for 3 seconds and then turn off?

IF YES – Move to next step.

IF NO – Disconnect the radar speed sensor and check for 12 Volts across Pin 1 and Pin 12. Is there 12V across the pins?

If NO – There is either a cut in the wire harness, the system is not properly wired to the J-box, or the tractor/battery is not supplying clean power to the AUX line. Find and fix the fault before proceeding.

IF YES – Temporarily replace the radar speed sensor if another is available. Does the driver warning light now turn on for 3 seconds and then turn off during power up?

IF YES – The original radar speed sensor was damaged. Order a replacement radar speed sensor using the part numbers supplied below. Re-do test to confirm functionality.

IF NO – There is either a cut in the wire harness (Pin 2 only affected), the system is not properly wired to the J-box, or the tractor/battery is not supplying clean power to the AUX line. Find and fix the fault before proceeding.
Section 2:
- Leave the roadside (RDS) of the TrailerTail open.
- Close the curbside (CBS) of the TrailerTail.

Is the driver warning light flashing?
- **IF NO** – Move to next step.
- **IF YES** – Make sure that nothing is moving near the radar speed sensor (could trigger a false reverse signal). If the driver warning light is still flashing, the radar speed sensor is damaged and should be replaced. Order a replacement radar speed sensor using the part numbers supplied below. Re-do test to confirm functionality.

Is the driver warning light off and does it stay off?
- **IF YES** – Move to next step.
- **IF NO** – There may be a short between the roadside latch and the radar speed sensor or the radar speed sensor is damaged. It is easiest to diagnose using the [ATD001561] – AutoDeploy Diagnostic Tool in the Complete Diagnostic Procedure. If unavailable, is there continuity between Pins 4 and 9 on the radar speed sensor plug?
  - **IF NO** – The radar speed sensor is damaged. Order a new radar speed sensor using the part numbers below:
  - **IF YES** – A short is present and either the latch is damaged or there is a fault in the harness. Electrically connect another functioning latch if one is available, but DO NOT REMOVE THE OLD LATCH FROM THE PANEL. Did electrically connecting another latch make the driver warning light turn off and stay off?
    - **IF YES** – The short was caused by a faulty latch. Remove the original latch from the panel by drilling out the rivets and install the new latch. If needed, order a new latch from STEMCO Customer Support and re-do test to confirm functionality. Replacement latch ordering information:
      - [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS
    - **IF NO** – The short was not caused by a faulty latch, and must instead be from the wire harness. Electrically disconnect the new latch and reconnect the original one. Replace or fix the wire harness and re-do test to confirm proper function. Replacement harness ordering information:
      - [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)
Section 3:

- Close the roadside (RDS) of the TrailerTail.
- Open the curbside (CBS) of the TrailerTail.

**Is the driver warning light flashing?**

IF NO – Move to next step.

IF YES – Make sure that nothing is moving near the radar speed sensor (could trigger a false reverse signal). If the driver warning light is still flashing, the radar speed sensor is damaged and should be replaced. Order a replacement radar speed sensor using the part numbers supplied below. Re-do test to confirm functionality.

**Is the driver warning light off and does it stay off?**

IF YES – Move to next step.

IF NO – There may be a short between the curbside latch and the radar speed sensor or the radar speed sensor is damaged. It is easiest to diagnose using the [ATD001561] – AutoDeploy Diagnostic Tool in the Complete Diagnostic Procedure. If unavailable, is there continuity between Pins 4 and 9 on the radar speed sensor plug?

IF NO – The radar speed sensor is damaged. Order a new radar speed sensor using the part numbers below:

**IF YES –** A short is present and either the latch is damaged or there is a fault in the harness. Electrically connect another functioning latch if one is available, but DO NOT REMOVE THE OLD LATCH FROM THE PANEL. Did electrically connecting another latch make the driver warning light turn off and stay off?

IF YES – The short was caused by a faulty latch. Remove the original latch from the panel by drilling out the rivets and install the new latch. If needed, order a new latch from STEMCO Customer Support and re-do test to confirm functionality. Replacement latch ordering information:

[ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

IF NO – The short was not caused by a faulty latch, and must instead be from the wire harness. Electrically disconnect the new latch and reconnect the original one. Replace or fix the wire harness and re-do test to confirm proper function. Replacement harness ordering information:

[ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or

[ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)
Section 4:

- Leave the roadside (RDS) of the TrailerTail closed.
- Close the curbside (CBS) of the TrailerTail.

Does the driver warning light turn on for 60 seconds?

Note: When both sides of the TrailerTail are closed, the driver warning light will turn off after 60 seconds or as soon as the vehicle reverses (even by things moving near it). You can restart the driver warning light sequence by opening and closing the TrailerTail again.

IF YES – Move to next step.

IF NO – There is either a disconnect between the latches and the radar speed sensor or the radar speed sensor is damaged. Ensure that both latches are connected to the wire harness, as this is a common cause of the issue. It is easiest to diagnose using the [ATD001561] – AutoDeploy Diagnostic Tool in the Complete Diagnostic Procedure. If unavailable, is there continuity between Pins 4 and 9 on the radar speed sensor plug?

IF YES – Is there continuity between Pins 3 and 4?

IF NO – There is a cut in the wire harness between the radar speed sensor and where the wire harness splits into two. Replace the wire harness and re-do test to confirm functionality. Replacement latch ordering information:

[ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit

IF YES – The radar speed sensor is damaged and should be replaced. Order a new radar speed sensor using the part numbers below:

IF NO – There is a disconnect between the radar speed sensor and one or both latches. Is there continuity between Pins 3 and 9?

IF YES – The short was caused by a faulty latch. Remove the original latch from the panel by drilling out the rivets and replace. Replacement latch ordering information:

[ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or
[ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

IF NO – The short was not caused by a faulty latch and must be from the wire harness. Electrically disconnect the new latch and reconnect the original latch. Replace or fix the harness on the short side. Replacement harness ordering information:

[ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or
[ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)
IF YES – The disconnect is not on the short harness side. Either the wire harness or the latch on the long side must be damaged. Electrically connect another functioning latch if one is available to the long harness side. DO NOT REMOVE THE OLD LATCH FROM THE PANEL. Is there continuity between Pins 3 and 9?

IF YES – The short was caused by a faulty latch. Remove the original latch from the panel by drilling out the rivets and replace. Replacement latch ordering information:

[ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS or [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

IF NO – The short was not caused by a faulty latch and must be from the wire harness. Electrically disconnect the new latch and reconnect the original latch. Replace or fix the harness on the long side. Replacement harness ordering information:

[ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit or [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

Section 5:
- Inspect the radar speed sensor to determine whether it includes self-diagnosis firmware. Indicators of radar speed sensors with this firmware include:
  - An overmolded electrical connector with three lines
  - A green sticker or yellow sticker with black dot on the label
  - A serial number that ends in C09 or higher

Does the radar speed sensor include self-diagnosis firmware?

IF YES – Move to next step.

IF NO – Contact STEMCO Customer Support to obtain [ATD001902] – AD VSC Firmware Flasher, which adds self-diagnosis firmware to the radar speed sensor.
Read through all 6 steps below and then complete. Be sure to complete Steps 3 through 5 in rapid succession.

**STEP 1**: This test takes 2 people. One at the J-box and one at the rear.

**STEP 2**: Open roadside of TrailerTail or whichever side is connected to the short leg of the harness. Trial and error can be used to determine which is which.

**STEP 3**: Plug power into the j-box (AUX / Blue line power needed).

**STEP 4**: Light will come on for 3 seconds. Step 5 must be completed in those 3 seconds for the test to function.

**STEP 5**: Fully open and close the latch 3 times. Just the latch, not the whole TrailerTail. Hold the trigger (green arrow) and fully cycle the cam (red arrow).

**STEP 6**: The other side of the TrailerTail will open on its own and you should feel the latch click in your hand.
Does the self-diagnosis firmware procedure complete successfully (Step 6)?

**IF YES** – You have completed all sections of this Limited Diagnostic Procedure and this AutoDeploy system is fully functional. Additional confirmation can be determined by driving the trailer on the highway in excess of 35 mph. Prior to road testing, confirm your tractor unit has AUX line power – the driver warning light will turn on when power is connected at the J-box. If for some reason the TrailerTail doesn’t deploy on the road, call STEMCO Customer Support.

**IF NO** – Make sure that the procedure was followed exactly as prescribed. Did one latch open?

**IF NO** – Temporarily replace the radar speed sensor with another radar speed sensor with self-diagnosis firmware and repeat the self-diagnosis firmware procedure. Does at least one latch now open in Step 6?

**IF YES** – The original radar speed sensor is damaged and should be permanently replaced. Re-do test to confirm proper function. Replacement radar speed sensor ordering information:

- [ATD002411] - ASY VSC+ Radar Speed Sensor
- [ATD002413] - ASY VSC+, OEM

**IF NO** – Either both latches are damaged or there is a cut in the harness. Electrically connect a functioning latch to each harness side. DO NOT REMOVE THE OLD LATCHES FROM THE PANELS. Repeat the self-diagnosis firmware procedure. Do the new latches now open in Step 6?

**IF YES** – The disconnect was caused by two faulty latches. Remove the original latches from the panel by drilling out the rivets and install the new latches. Replacement latch ordering information:

- [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS
- [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

**IF NO** – The disconnect was not caused by two faulty latches and must be from the wire harness. Electrically disconnect the new latches and reconnect the original ones. Replace or fix the damaged wire harness. Replacement harness ordering information:

- [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit
- [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)

**IF YES** – Either a latch is damaged or there is a cut in the wire harness. Unplug the latch that did not open and electrically connect a functioning latch in its place. DO NOT REMOVE THE OLD LATCH FROM THE PANEL. Repeat the self-diagnosis firmware procedure. Does the new latch now open in Step 6?

**IF YES** – The disconnect was caused by a faulty latch. Remove the original latch from the panel by drilling out the rivets and install the new latch. Replacement latch ordering information:

- [ATD002534] – ASY AutoDeploy Latch Replacement Kit, RDS
- [ATD002700] – ASY AutoDeploy Latch Replacement Kit, CBS

**IF NO** – The disconnect was not caused by a faulty latch and must be from the wire harness. Electrically disconnect the new latch and reconnect the original one. Replace or fix the damaged wire harness. Replacement harness ordering information:

- [ATD002699] – ASY AutoDeploy Wire Harness Replacement Kit
- [ATD000495] – ASY AutoDeploy Latch Cable Repair Kit (damaged wire on the TrailerTail portion of harness only)