



## Mack Models

**Mack Model** TE-TerraPro , LR , GR-Granite , PI-Pinnacle , AN-Anthem , CHU-Pinnacle, Axle back , CXU-Pinnacle, Axel forward , GU-Granite

## Volvo Models

**Volvo Model** VNR , VNX , VNL , VHD , VAH

## Engine family

Engine family 11L Engine , 13L Engine , MP7 , MP8

## Emission Standard

Emission Standard 2018 , OBD2017 , US17

## \*\* SOLUTION \*\*

**Title** Vehicle Overspeed Warning Comes Active At A Lower Speed Than Expected; Vehicle Overspeed Warning In Driver Information Display (DID) - **Model Year 2018 And Newer With New Style Instrument Cluster**

**Cause** For 2018 and newer chassis, the vehicle overspeed alert may come active before the programmed speed limit is reached.

The Vehicle Overspeed Threshold is set with parameter ZX5 and Driver overspeed warning default trigger is set with parameter ROS. These parameters may be set at a low enough value that road speed limit is higher. This issue is most likely to occur following changes made to the road speed limit with pedal and/or cruise.

## Solution

### If the vehicle overspeed alert is activating at too low of a speed:

1. In Premium Tech Tool (PTT), run Operation [1700-22-03-03 Parameter Programming](#). The Operation can be found under the Program tab.

2. Locate and review the value of parameters ZX5 and ROS.

| PARAM | DESCRIPTION                              | UNIT       | VALUE      | UNIT      | VALUE     |
|-------|------------------------------------------|------------|------------|-----------|-----------|
| ZXA   | LOW Engine Overspeed Command Threshold   | 500.000    | 0.000      | 3500.000  | rpm       |
| ZX5   | Vehicle Overspeed Threshold              | 0.00000000 | 86.000     | 150.45208 | mph       |
| ZX2   | Vehicle Overspeed All Threshold          | 0.00000000 | 0.00000000 | 150.45208 | mph       |
| TRAV  | Cruised Factor / Command Threshold       | 200.000    | 0.000      | 1600.000  | value     |
| RNA   | Lamp and Pop-up Settings for ACC         | 0          | 0          | 200       |           |
| RNL   | Fuel Level Buffer                        | 0.00       | 0.00       | 67.36     | gal (US)  |
| ROS   | Driver overspeed warning default trigger | 0          | 0          | 255       | mph       |
| RR    | Cruise trim factor, minus                | 0.00       | 0.00       | 6.21      | miles/h/s |

3. Set the value for ZX5 and ROS higher than the values for the other road speed limits.

**Note:** The maximum value that ZX5 and ROS should be set to is 86 mph (138 km/h). Setting the value higher may cause other issues.

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**Function(s)/component(s) affected**

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|-------------------|------------------------------------------------------------------|
| Function affected | regulation (cruise control/engine speed) , MID 140 – IC04 / IC05 |
|-------------------|------------------------------------------------------------------|

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**Function Group**

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|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Function Group | 365 entire vehicle control system , 381 combined instrument , 387 warning /information analysis and display; embedded diagnostic software |
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**Customer effect**

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|                      |                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------|
| Main customer effect | acceleration/speed , calibration/programming/pairing/missing operation , fault code /display |
|----------------------|----------------------------------------------------------------------------------------------|

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|----------------------------------------|--------------------|
| Lights/Messages on information display | message on display |
|----------------------------------------|--------------------|

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**Conditions**

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|                        |              |
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| Vehicle operating mode | when driving |
|------------------------|--------------|

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|                                    |        |
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| Frequency of occurrence of problem | random |
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|------------------|-----------------------|
| Speed limitation | < vehicle speed limit |
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| Other conditions | after a workshop procedure on the vehicle |
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**Administration**

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| Author | RU4469V |
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| Dealer ID | RU4469V |
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| Last modified by | RU4469V |
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|---------------|------------------|
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| Status | Published |
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