



No.: 17 TS-5  
February 24, 2017

TO: Service Locations

FROM: Service Systems Development

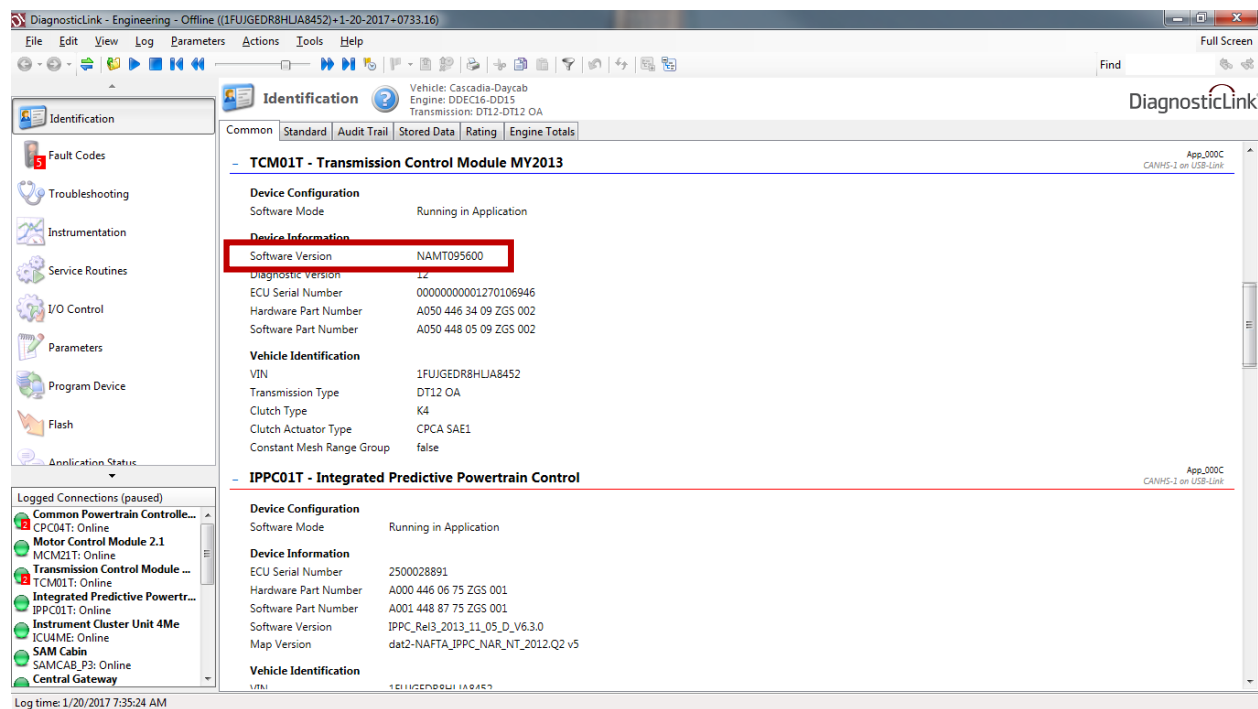
SUBJECT: **Detroit™ DT12™ TCM Bootloader Update**

## ISSUE

On Detroit™ DT12™ equipped vehicles, it may be necessary to complete an additional step in the programming process when updating the TCM software.

## REQUIRED ACTION

1. Connect DiagnosticLink® version 8.04 with Service Pack 2 or DiagnosticLink® version 8.05, on Identification Tab check the TCM01T software level. If the software level is NAMT095600, no special programming steps are necessary and you may continue to program the CPC/MCM/ACM/TCM as usual. If the TCM software level is **NOT** NAMT095600, continue to step 2.



2. Connect DiagnosticLink® version 8.04 with Service Pack 2 or DiagnosticLink® version 8.05. Download Unit Data from server, and note the TCM01T Hardware Part Number (last 3 digits are 001).

**Request Equipment Data Download**

Enter the identity of the equipment you wish to program.

Vehicle Identification (VIN/PIN)  
1FUJGLDR0GLZZ3415

Engine Serial Number (Unit Number)  
472910S0356782

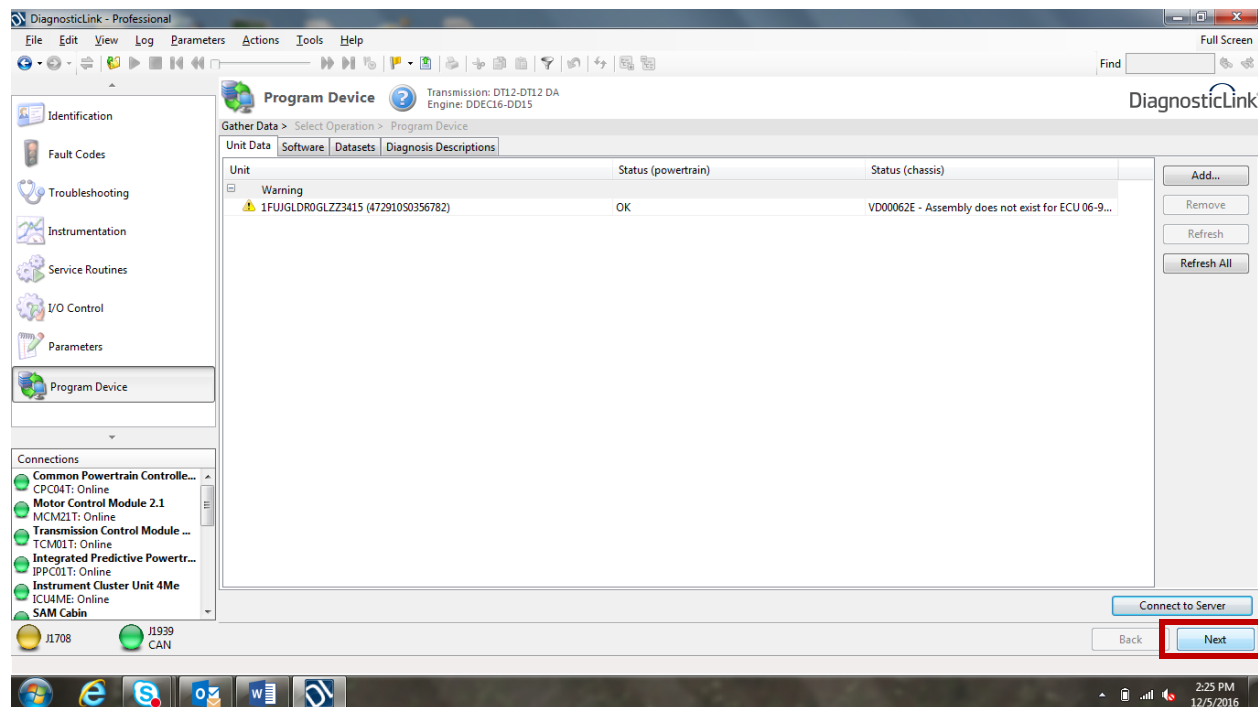
Device controllers for this equipment

+ Add - Remove

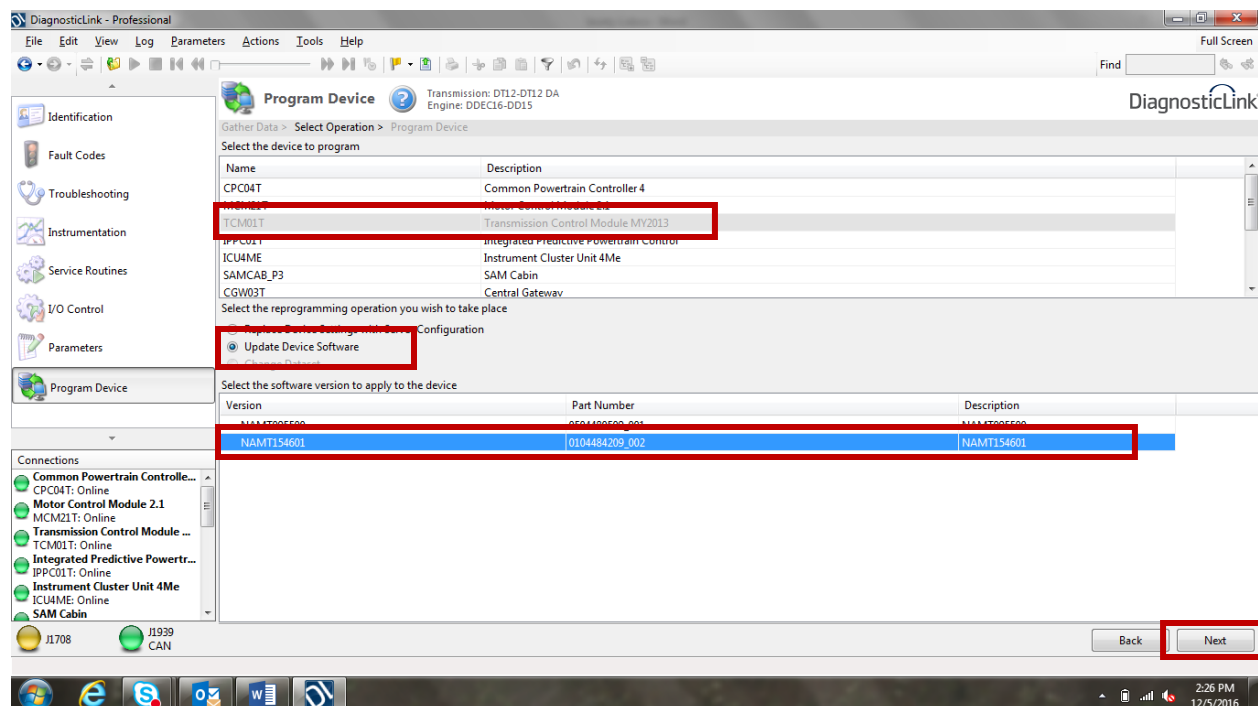
|   | Device    | Hardware Part Number |
|---|-----------|----------------------|
| ▶ | CPC04T    | A0034461102-002      |
|   | MCM21T    | A0014465835-002      |
|   | TCM01T    | A0504463109-001      |
|   | IPPC01T   | A0004460675-001      |
|   | ICU4ME    | 06-84378-001         |
|   | SAMCAB_P3 | 06-74862-000         |
|   | CGW03T    | 06-93359-001         |
|   | RDF01T    | A0004461649-001      |
|   | MSF_P3    | 06-66446-002         |

Clear All OK Cancel

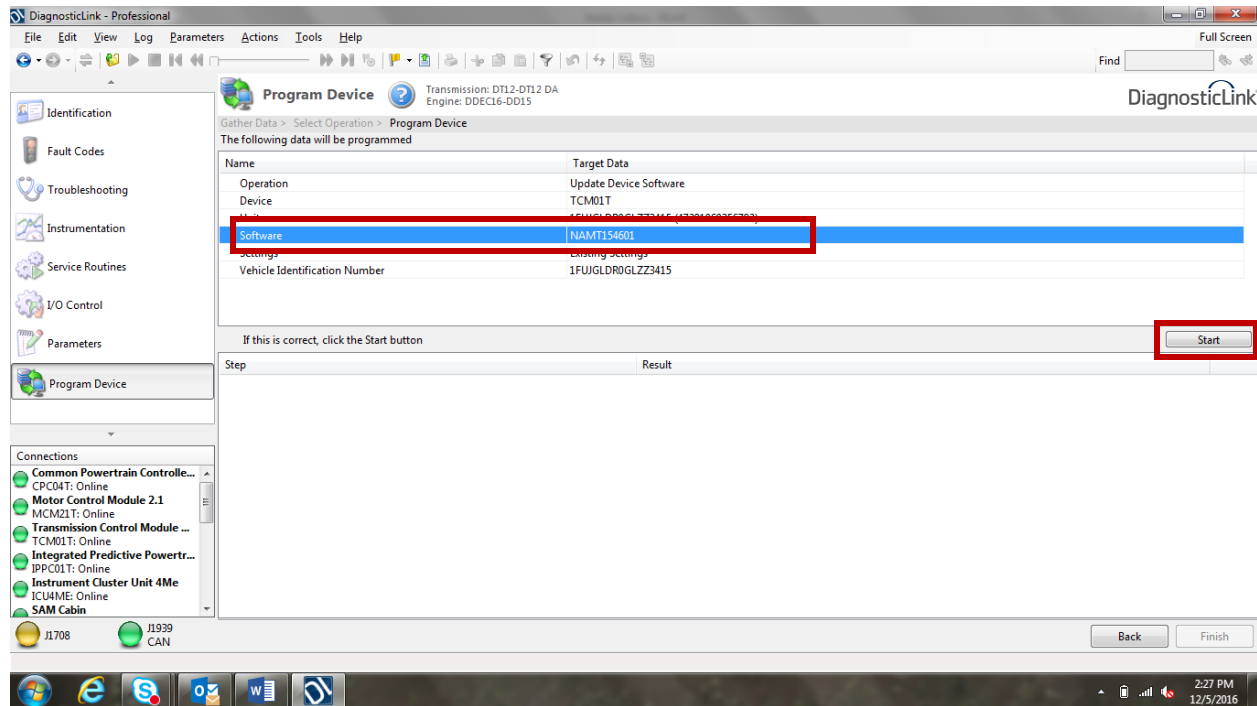
3. After download select “Next”.



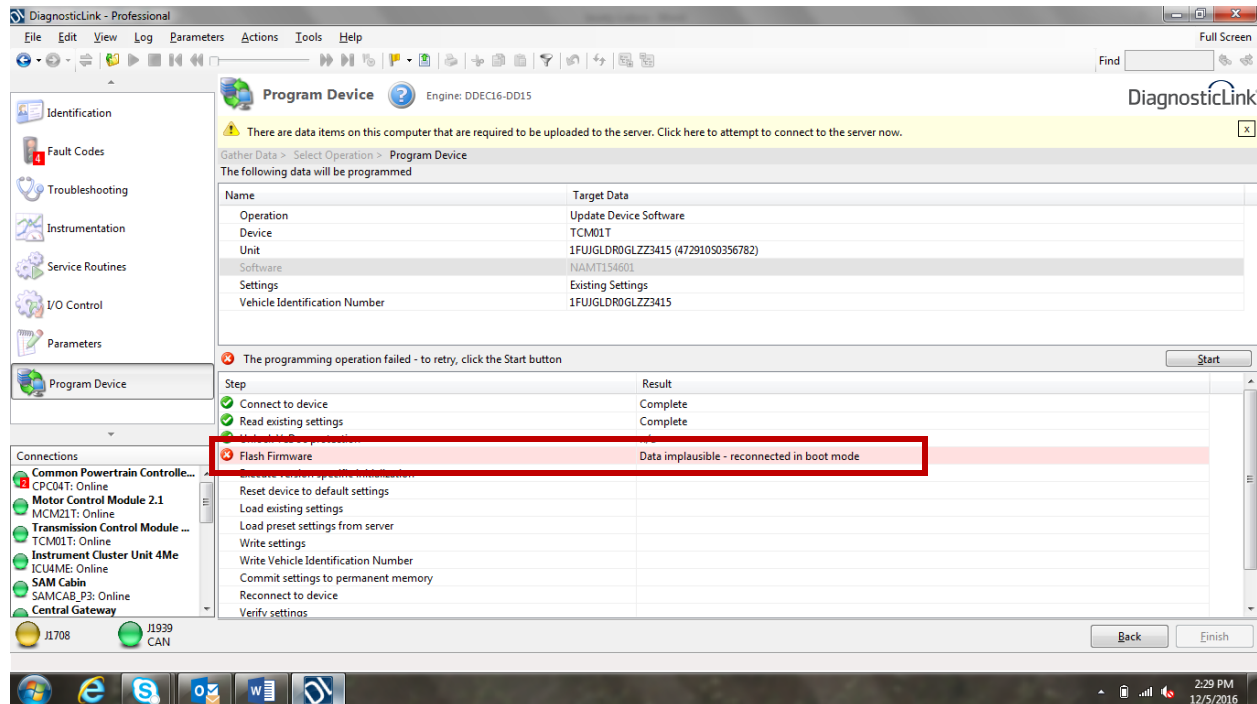
4. Select TCM01T, then “Update Device Software”, then select bootloader software NAMT154601, then select “Next”.



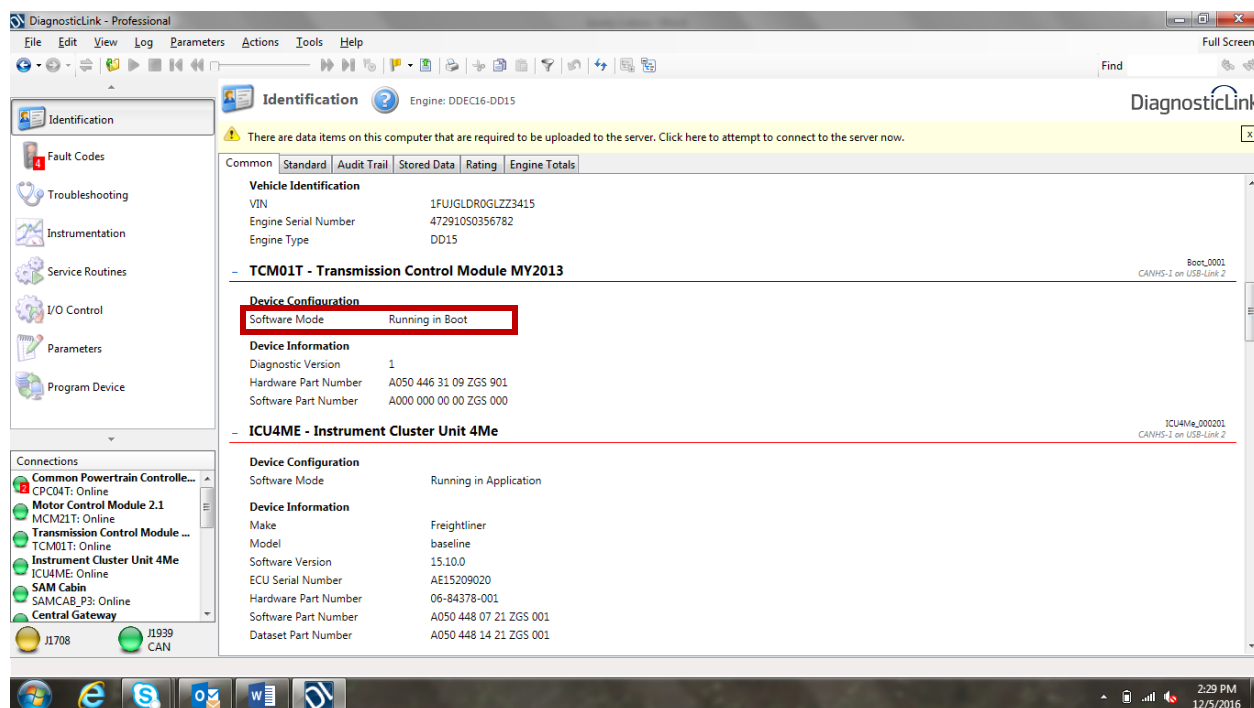
5. Make sure software is correct NAMT154601, then select “Start”.



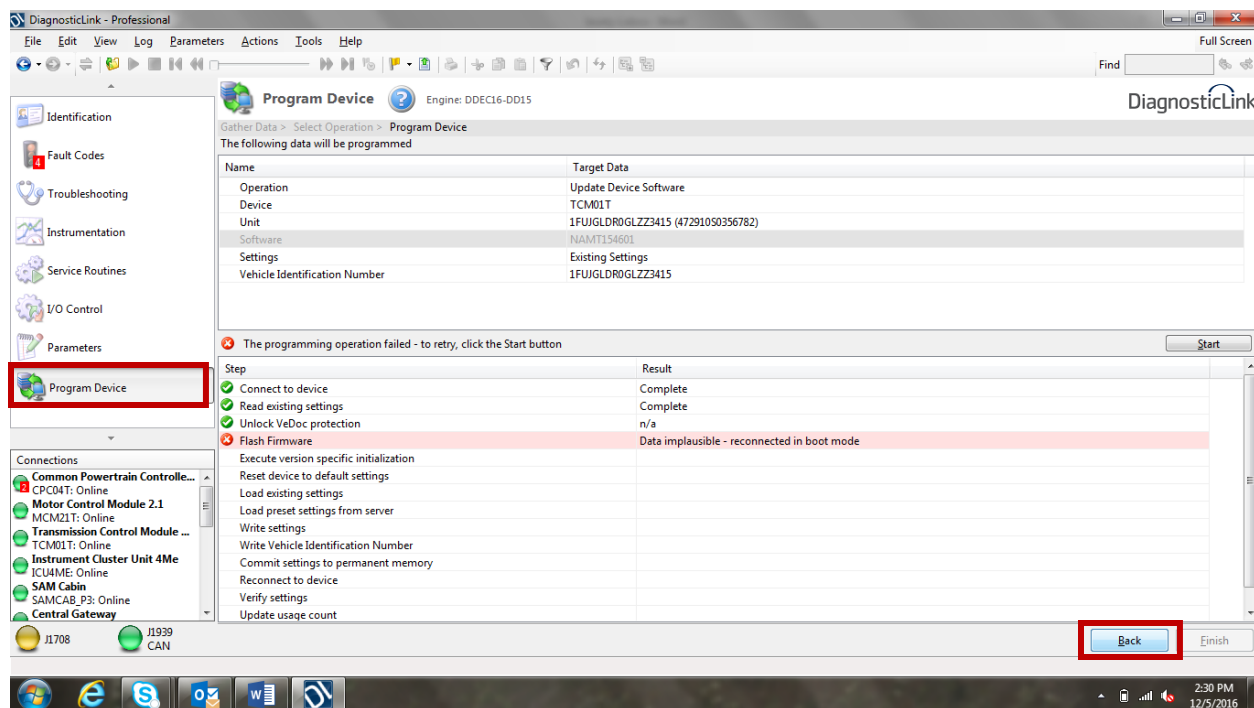
6. Programming will fail at the step highlighted below “Data Implausible – reconnect in boot mode”. This is an expected error.



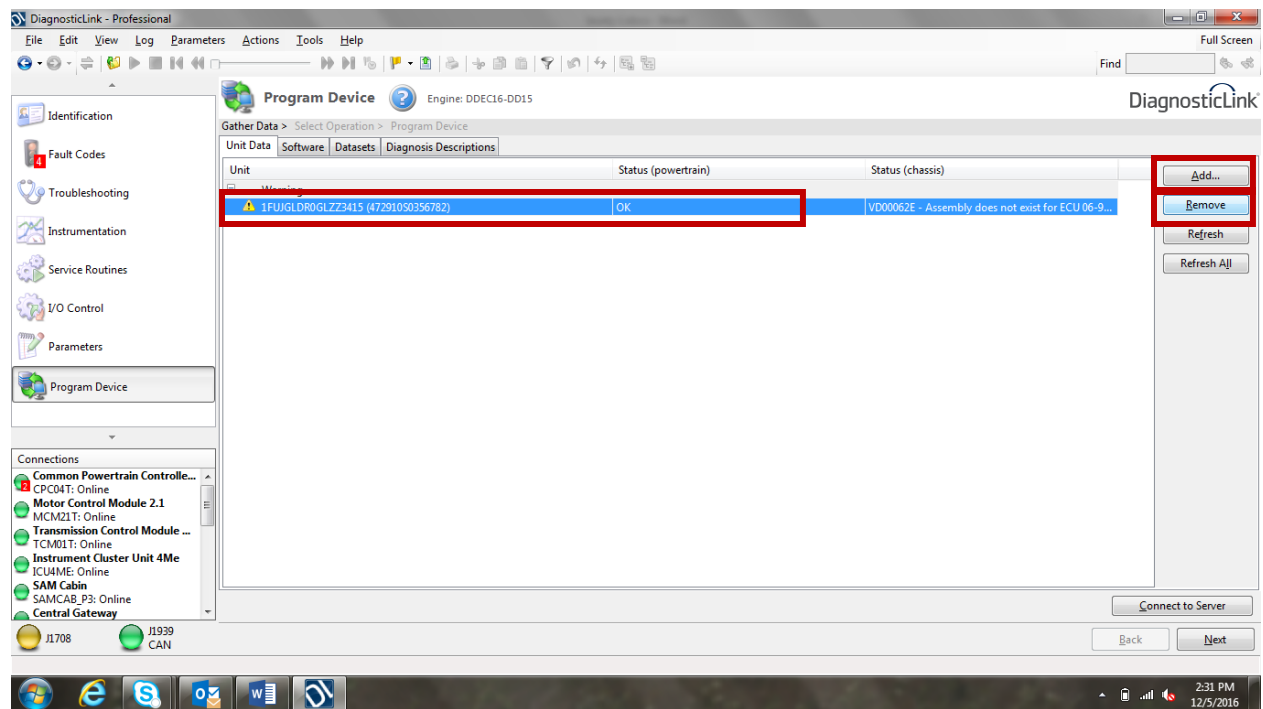
7. Navigate back to the “Identification” screen and you will see TCM01T is “Running in Boot”. Again this is an expected result.



8. Reselect “Program Device” tab and select the “Back” button.



9. Highlight the VIN and select “Remove”, then select “Add” add to reload the VIN.



10. After the VIN has been re-added, notice TCM01T Hardware Part Number has changed, (last 3 digits are now 901) then select "OK," and connect to the server.

**Note: you may have to manually connect to the TCM prior to downloading server data, see steps 11 and 12 for manual connection details.**

If a manual connection is not necessary, go to Step 14.

**Request Equipment Data Download**

Enter the identity of the equipment you wish to program.

Vehicle Identification (VIN/PIN)  
1FUJGLDR0GLZZ3415

Engine Serial Number (Unit Number)  
472910S0356782

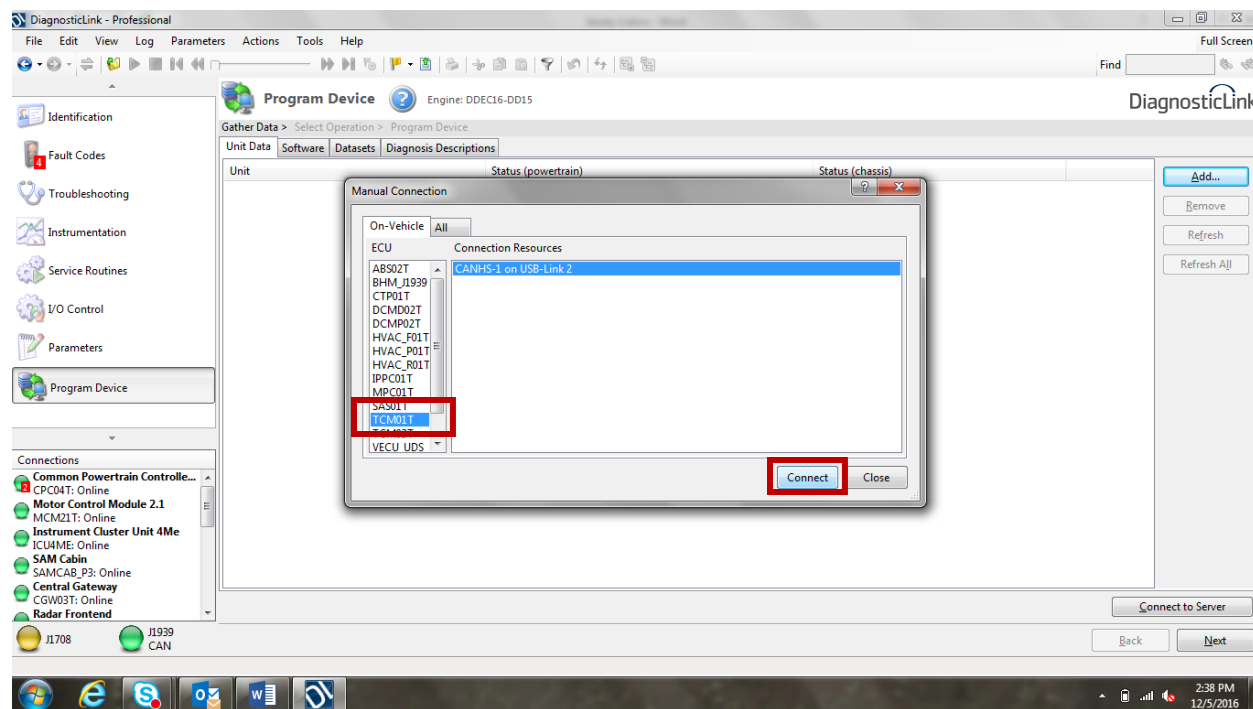
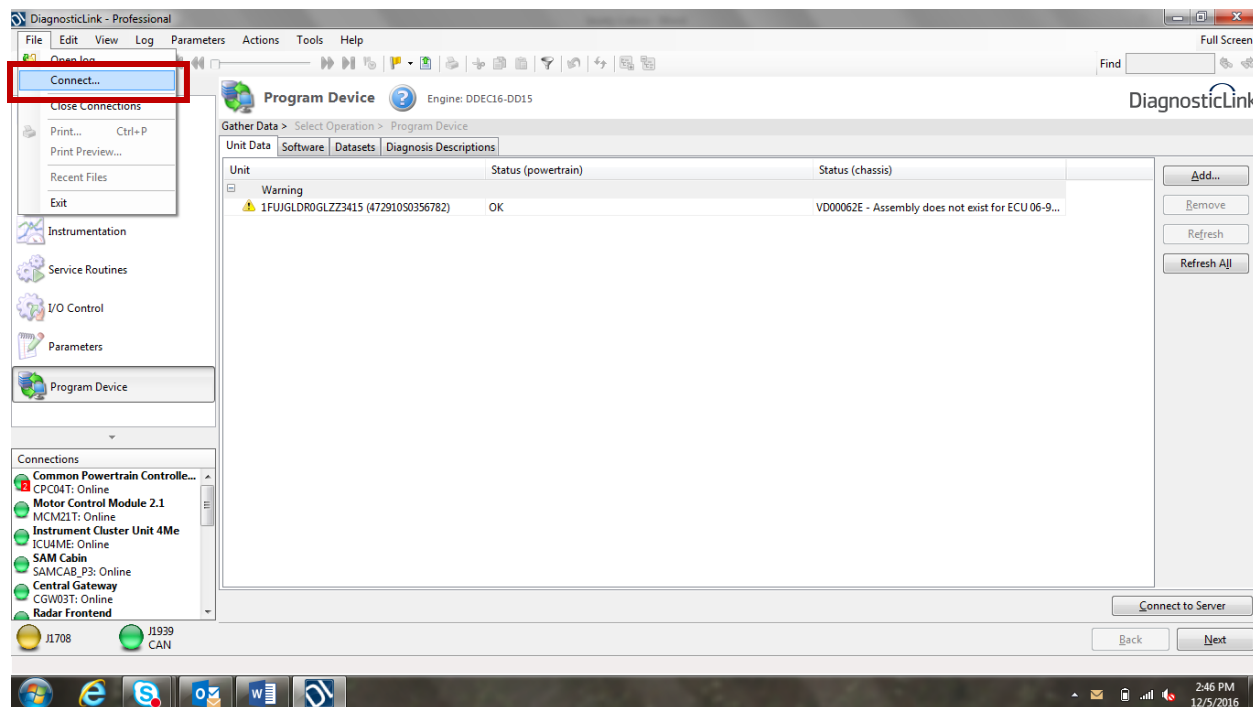
Device controllers for this equipment

+ Add - Remove

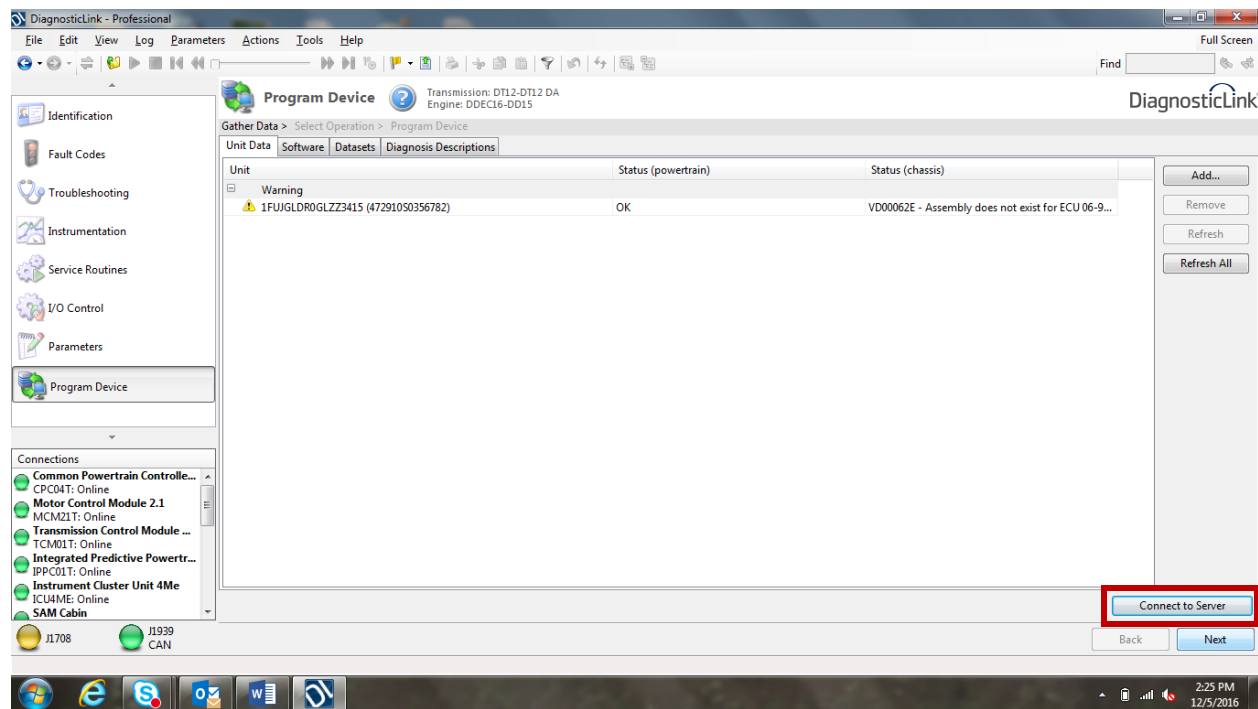
|   | Device    | Hardware Part Number |
|---|-----------|----------------------|
|   | CPC04T    | A0034461102-002      |
|   | MCM21T    | A0014465835-002      |
| ▶ | TCM01T    | A0504463109-901      |
|   | ICU4ME    | 06-84378-001         |
|   | SAMCAB_P3 | 06-74862-000         |
|   | CGW03T    | 06-93359-001         |
|   | RDF01T    | A0004461649-001      |
|   | MSF_P3    | 06-66446-002         |
|   | ACM21T    | A0004464654-003      |

Clear All **OK** Cancel

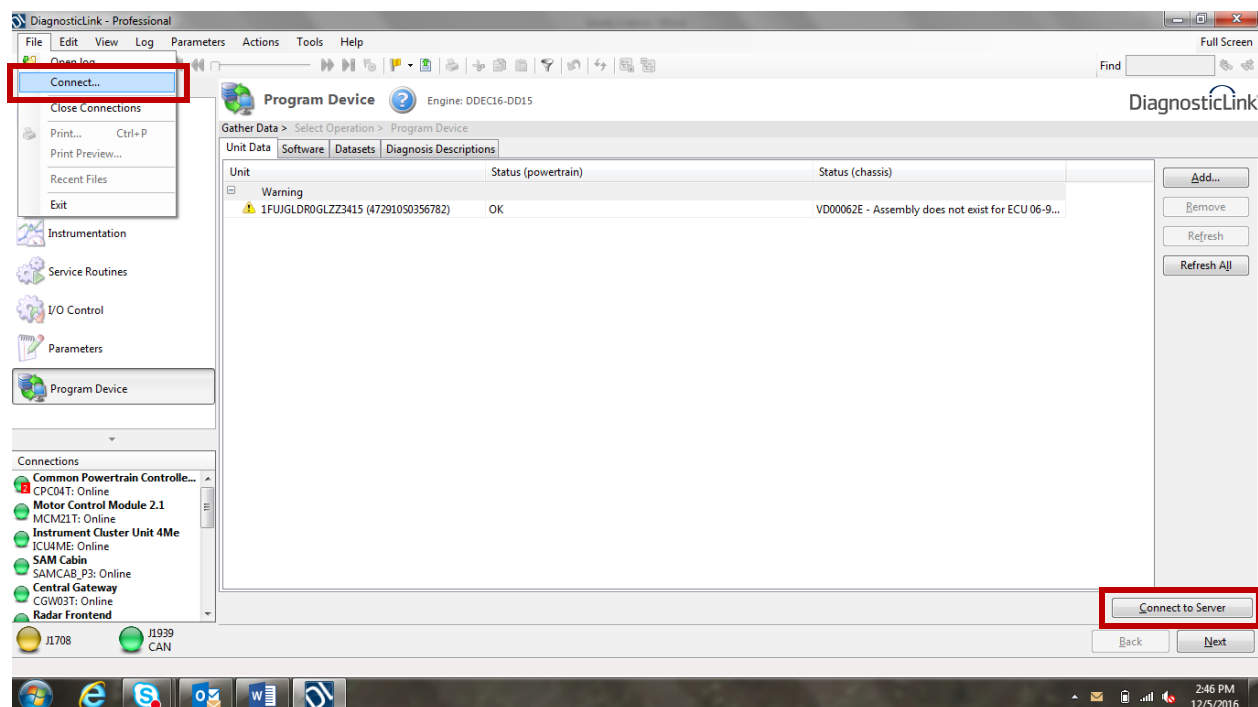
11. This step and step 12 show how to manually connect to the TCM.

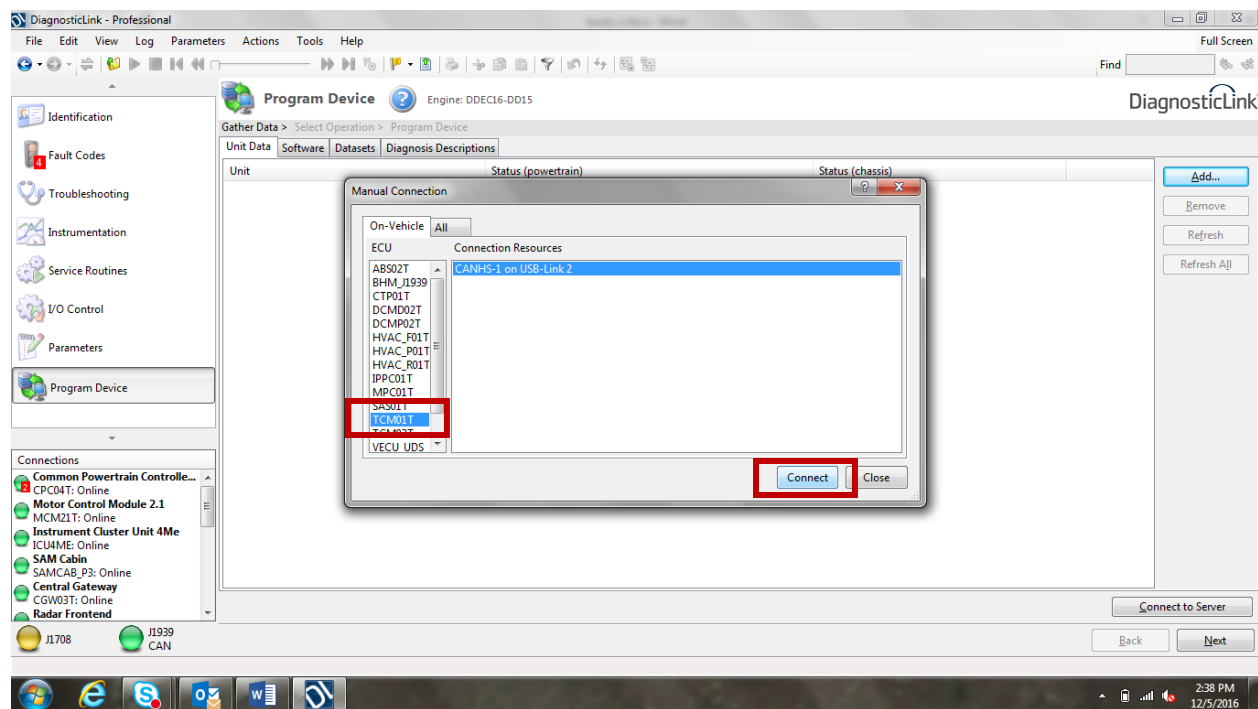


## 12. Connect to the server, and download unit data.

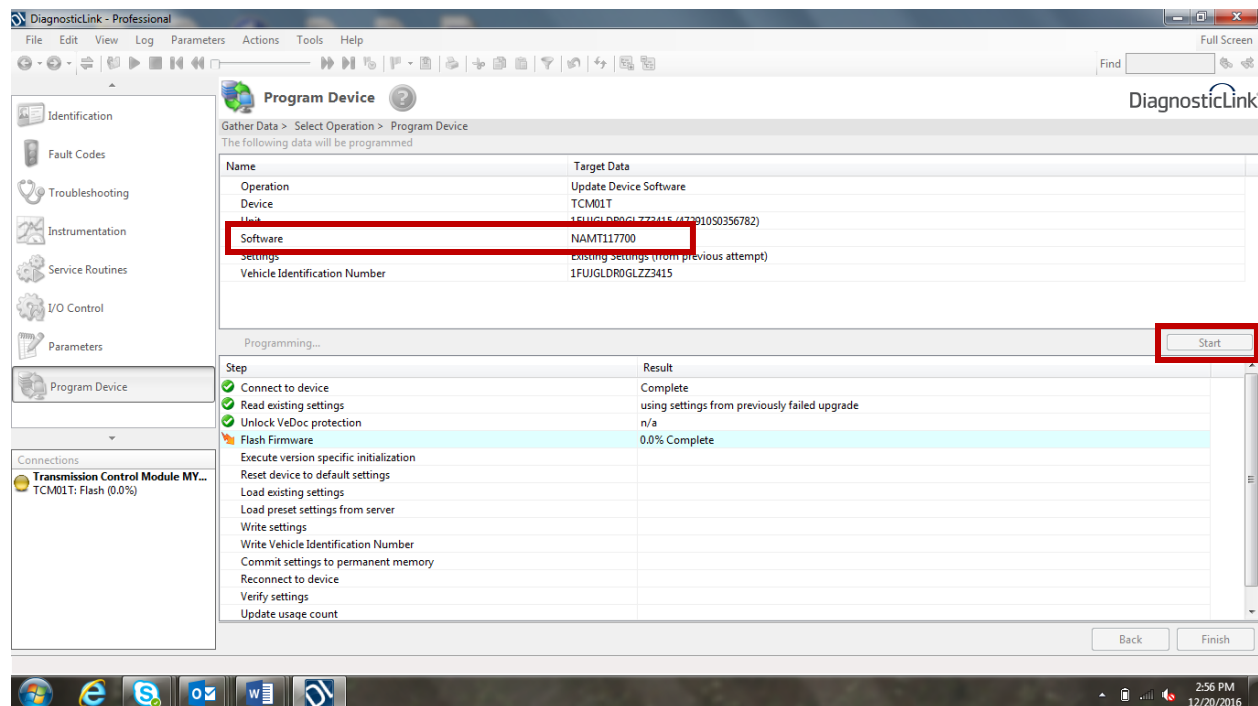


## 13. If not connected after download, make a manual connection to the TCM. (Refer back to Steps 11 &amp; 12 for manual connection instructions. After connection is made, continue to Step 14.

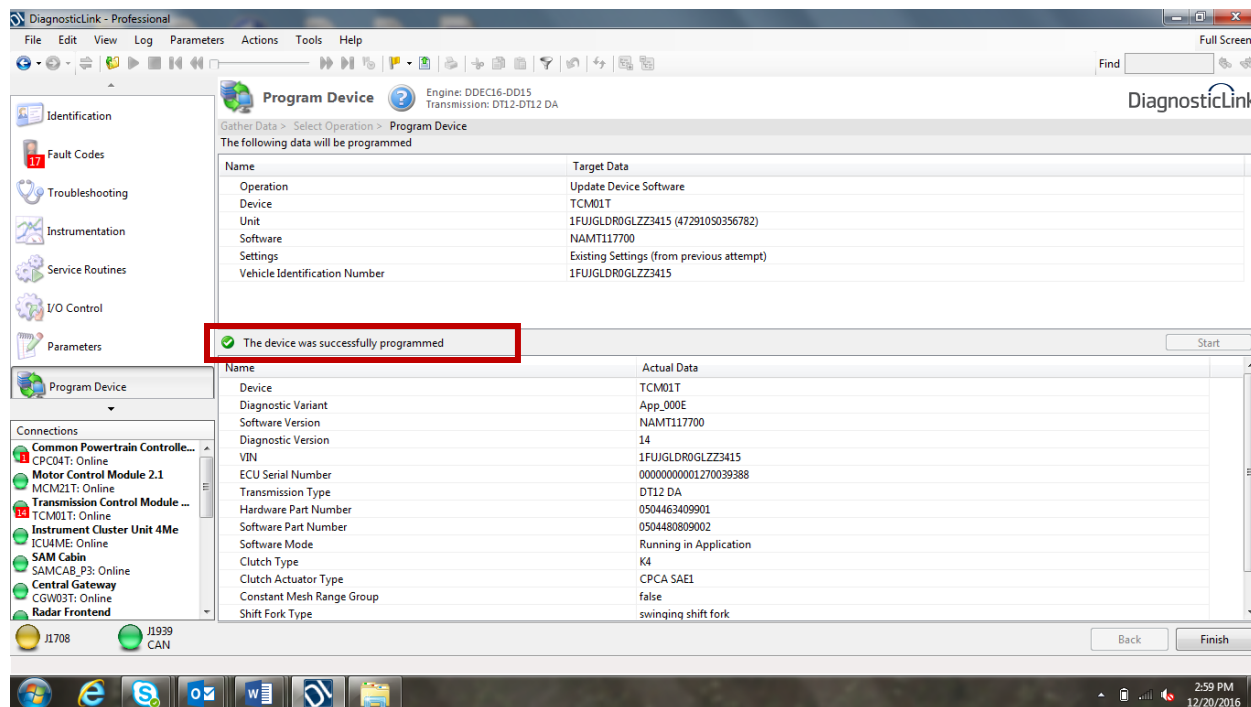




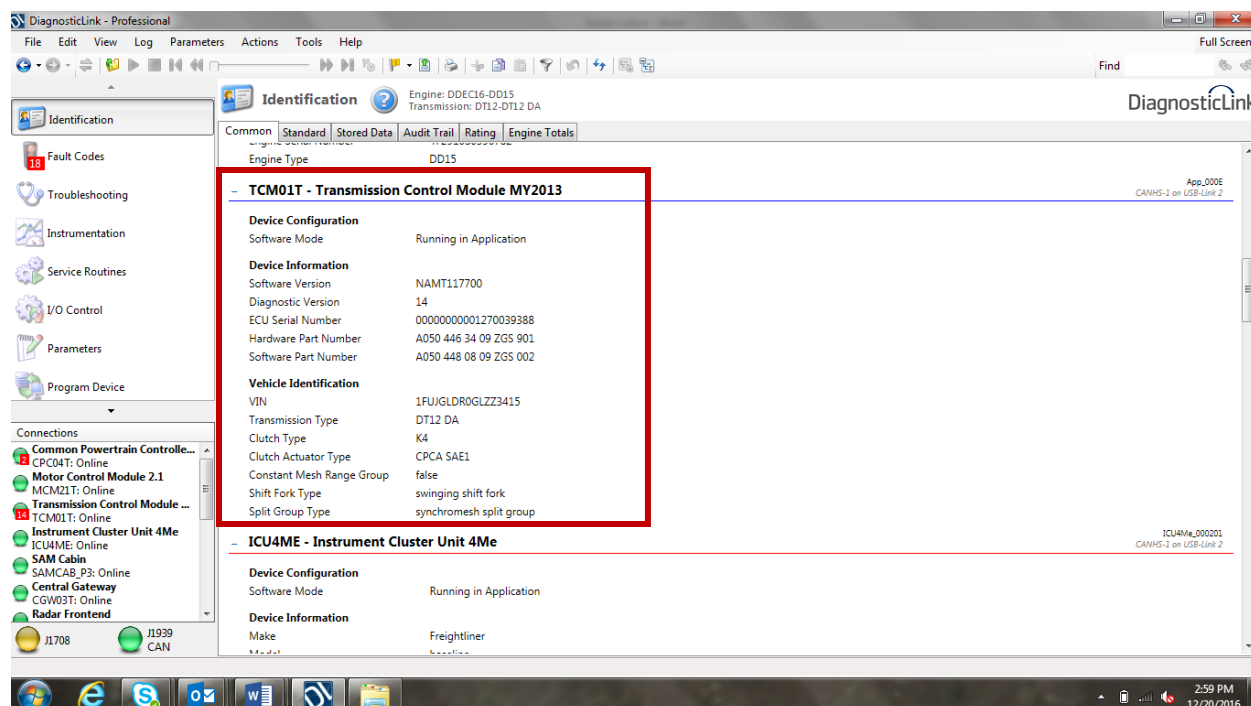
14. Verify TCM software NAMT117700 software and select “Start” to complete programming.



## 15. Verify programming was successful.



16. After programming is complete navigate to Identification tab and verify TCM software NAMT117700 software. **DO NOT PERFORM A TRANSMISSION LEARN. DO NOT PERFORM A CLUTCH LEARN. LEARNED VALUES ARE RETAINED DURING THE PROGRAMMING EVENT.**



17. After programming the TCM, continue to program the CPC, MCM and ACM with the following software versions as usual (note that when programming the rest of the modules the below table will be displayed until all modules are at the correct version).

- CPC - R38\_00\_000A (or higher)
- MCM - 6.5.02 (or higher)
- ACM – 7.57.2.0 (or higher)

Compatibility Information

The selected software is not compatible with other connected devices, please update them as necessary after reprogramming is complete.

**Target Device**

| Device | Hardware        | Software    |
|--------|-----------------|-------------|
| CPC04T | A0034461102-002 | R38_00_000A |

**Compatible Set #1**

| Device | Hardware Options                                  | Hardware Change | Software Options |
|--------|---------------------------------------------------|-----------------|------------------|
| ACM21T | A0004465954-001, A0004465954-002, A0004465954-003 |                 | 7.57.2.0         |
| MCM21T | A0014465835-001, A0014465835-002                  |                 | 6.5.0.2          |

**Compatible Set #2**

| Device | Hardware Options                                                   | Hardware Change | Software Options |
|--------|--------------------------------------------------------------------|-----------------|------------------|
| ACM21T | A0004465954-001, A0004465954-002, A0004465954-003                  |                 | 7.57.2.0         |
| MCM21T | A0014465835-001, A0014465835-002                                   |                 | 6.5.0.2          |
| TCM01T | A0504460109-001, A0504463109-002, A0504463109-901, A0504463409-901 |                 | NAMT117700       |

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## CONTACT INFORMATION

Please contact the Detroit Diesel Customer Support Center at 800-445-1980 or email [csc@daimler.com](mailto:csc@daimler.com) if you have any questions.