



Campaign Number	Revision Level	Date	Group Number
C1697	E	17-FEB-2017	
Expiration Date (U.S. and Canada)		Expiration Date (International)	
15-MAR-2017		15-MAR-2017	



Warranty Field Campaign

In-Shop Campaign, ISX15 CM2350 VGT Actuator Calibration

Attention

- U.S / Canadian Distr./Branches and Div. Offices (Automotive)
- Worldwide distr./ branches and Div./Reg Offices

This is to revise and replace TRP 1697-D, dated 16-Sep-2016. This revision is to:

1. Revision to close early, effective 15 March 2017.

If additional information is required, please contact your Cummins Warranty Operations Group Leader.

Description

This In-Shop Campaign is being issued to recalibrate the Variable Geometry Turbocharger (VGT) actuator of certain ISX15 CM2350 engines. It provides authorization for certified repair locations to recalibrate the VGT actuator anytime the unit is in for maintenance or repairs, with certain restrictions on reimbursement.

NOTE: Actuators replaced after November 2013 already contain the improved VGT actuator software and do not require this update.

Action

In order to qualify for repair under this field action, an engine:

1. will be covered In Base Engine Warranty, Emissions Control System Warranty, or CAP coverage period, and
2. **must** show an **OPEN** status for this field action on QuickServe® Online.

After verifying that the engine meets the above requirements, perform the following actions:

1. Reflash the VGT Actuator with updated software. Please refer to Attachment B for detailed instructions using 8.1.x.

Material Disposition

There are **no** materials involved in the field action.

Reimbursements

Parts

There are **no** parts covered in this field action.

NOTE: This In-Shop Campaign does not reimburse for any SRTs except those that are listed. SRT 17-902 Campaign Check can only be claimed if the actuator is being replaced as part of another repair, if the actuator is known to have been replaced after November 2013, or if the actuator meets the "Do Not Proceed" conditions in Attachment B. It is recommended, but not required, that this Field Action be performed as part of another Cummins warrantable repair event to allow reimbursement for charges such as travel, admin, troubleshooting, or access issues that are outside the scope of this document.

Labor using applicable Access Code and Time:

SRT Code	Description	Time (hrs)
10-066	Turbocharger Actuator Calibration Code (OPTIONAL)	
17-902	CAMPAIGN CHECK (OPTIONAL)	

Travel

Travel is **not** covered under this field action. Towing is **not** covered under this field action.

Other Claimables

Consumables are **not** covered under this field action.

Claim Instructions

For Cummins Dealers, claims for this Field Campaign **must** be filed via **RAPIDSERVE™** Web (rsw.cummins.com). For information regarding **RAPIDSERVE™** Web, please reference the "Warranty" tab in QuickServe® Online. If there are additional questions, please contact your local Cummins Distributor.

Claim Codes	
Description	Code
Account Code:	65
Pay Code:	Distributor = X
Pay Code:	Dealer = D
Pay Code:	International = I
Failure Code:	WTHEQB

Attachments

[Click here to see c1697-l_esn-list.xls](#)

[Click here to see c1697_actuator_flashing_insite_8_1_x_v2-attach-b.pdf](#)

Last Modified: 08-Mar-2017

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HD Actuator Flashing with Insite 8.1.x

Preparatory Steps:

1. Using a paint scrapper remove paint covering part name as seen below in Figure 0
2. Record the Hardware Part Number [1] Figure 0



Figure 0. Turbo Actuator Pictures

3. Connect INSITE™ electronic service tool to the J1939 data link located on the engine or in the vehicle cab.

Procedure:

1. Connect to ECM [1]. Figure 1.
2. Select Advanced ECM Data Button [2]. Figure 1.
3. Click “Turbocharger Actuator Compatibility” [3]. Figure 1.
4. Document both the 7 digits of Turbocharge Actuator Hardware and Software Part Number [4]. Figure 1. This hardware number is needed later in the procedure.

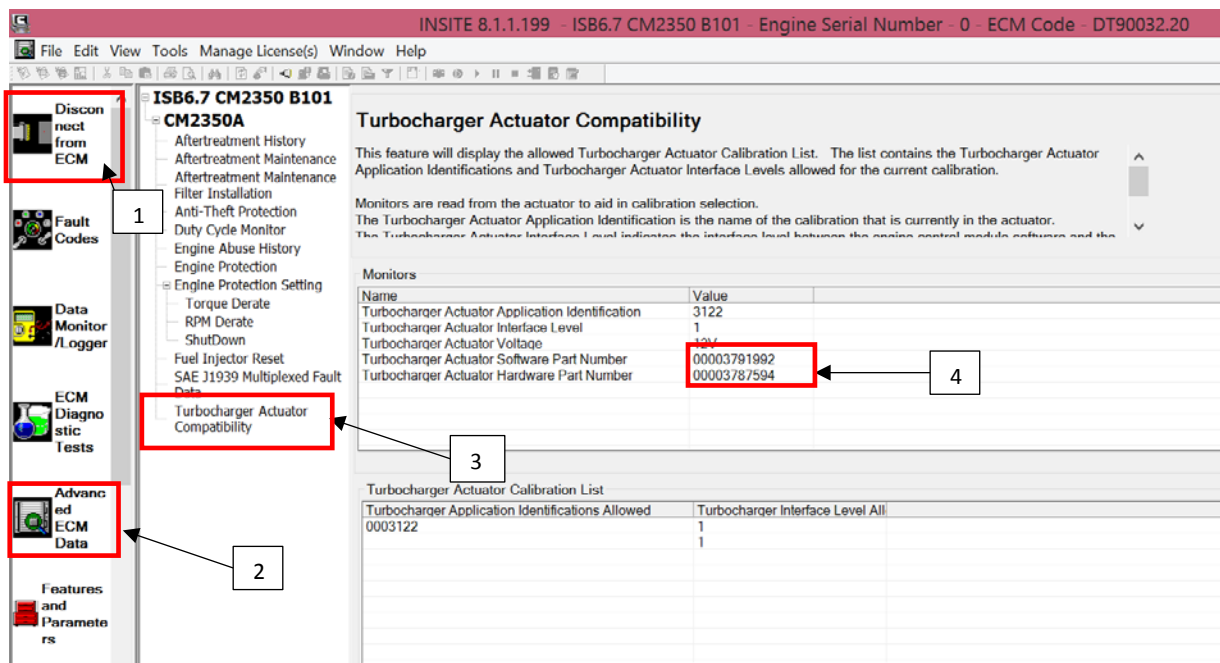


Figure 1. Turbocharger Actuator Hardware Part Number Screen

5. Compare Hardware Part Number on Data Plate to Hardware Part Number Recorded in Step 4
6. If part numbers do not match DO NOT PROCEED, THE ACTUATOR HAS THE MOST CURRENT ALLOWABLE SOFTWARE; updating beyond this software revision may cause damage to the actuator. No further repairs are necessary. Close the campaign as an inspection only.
7. Disconnect From ECM [1]. Figure 1.
8. Open Insite- Calibration Selection [6]. Figure 2.
9. Click on **ECM/PDD Code Search** [7]. Figure 2.

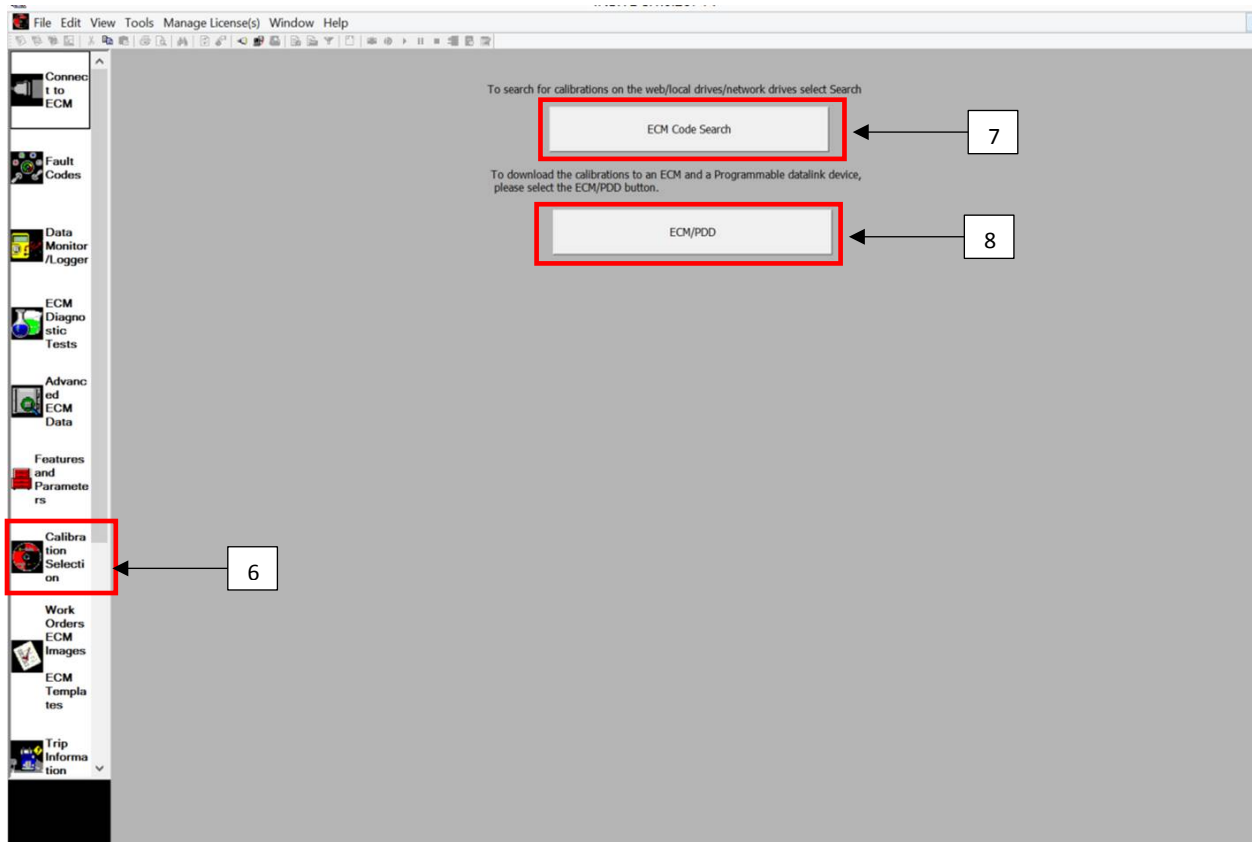


Figure 2. Calibration Selection

10. Enter the **Software Part Number** of the Turbo Actuator Controller Figure [3]
11. Click the **Search** button
 - o Note – PDD codes only search the web. It will not search the local or network drives.
12. Click **Save**.
 - o If the Save button is grayed out this indicates the latest calibration has previously been saved to your Calibration Workspace. Proceed to next steps.
 - o Note – The PDD code will save to the Calibration Workspace on the user's hard drive
 - o Click **"Exit"**

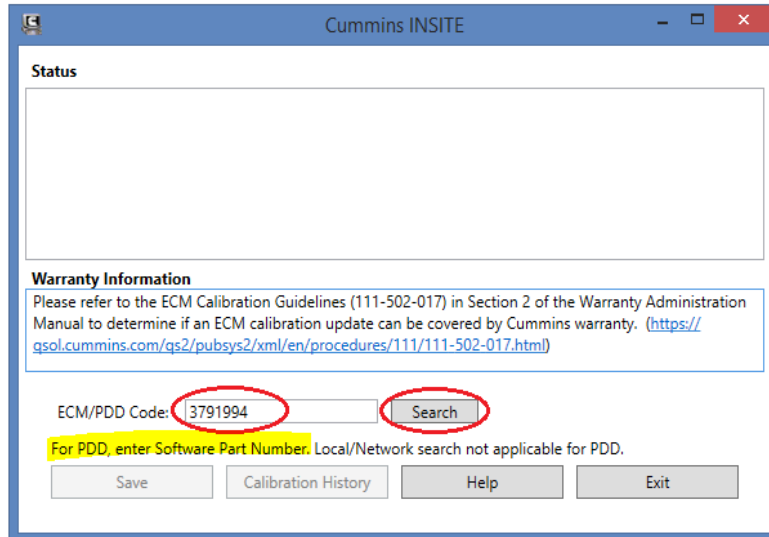


Figure 3. Calibration Selection

1. Connect to ECM [1]. Figure 1.
2. Open Insite- Calibration Selection [6]. Figure 2.
3. Select ECM/PDD button [8]. Figure 2.

Figure 2. Calibration Selection Screen

4. Expand the drive and month of the INCAL™(Calibration Workspace) [9]. Figure 4.
5. Select Programmable Datalink Device [10]. Figure 4.
6. Expand Turbo Actuator Controller [11]. Figure 4.
7. Select the Turbo Actuator Controller (Actuator Hardware Part Number) [12] that matches the number documented in step 3. Figure 4.
8. Left click on the Software Part number [13], and then right click to select “transfer to device”.

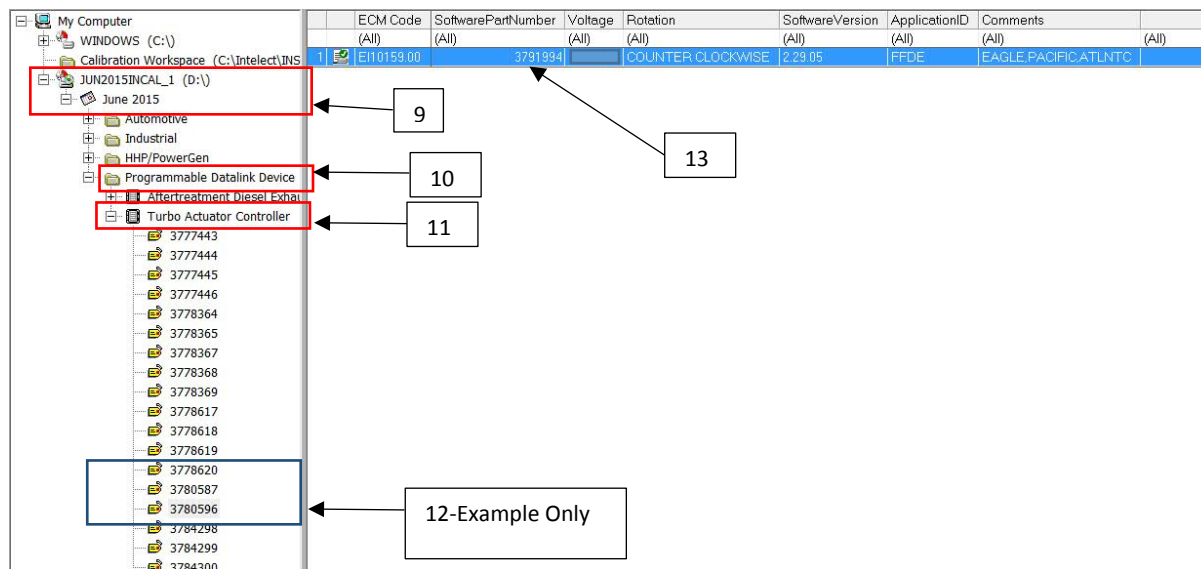


Figure 4. Actuator Hardware Number and Software Selection Screen

9. The Calibration Download Wizard window will open. Select **Next** to continue or **Cancel** to exit the Calibration Download Wizard.
10. An Adjustment Confirmation window will open. Select **OK** to continue or select **Cancel** to go back to the previous window. After selecting OK, a process bar will display as the calibration is downloading.

Note: While calibrating the Programmable Datalink Device, do not change the key switch state.

11. After the calibration is complete, the progress bar will close.
12. The Calibration Transfer Results window will display the results of the calibration transfer. Select **OK** to continue.
13. If Fault Code 2636 is inactive at the completion of the VGT actuator reflash, use Insite Reset All faults command to clear the fault.