GLOBAL SAFETY FIELD INVESTIGATIONS
DCS4039
URGENT - DISTRIBUTE IMMEDIATELY

Date: May 13, 2016

Subject: 43190-01 – Service Update
Twin Turbo Engine Overboost
Revised Service Procedure and Part Information

Models: 2016 Cadillac CT6 Equipped with 3.0 V6 Twin Turbo Engine Equipped (RPO LGW)

To: All Cadillac Dealers

The attached bulletin has been revised to update the service procedure and part information sections. The bulletin now includes a VIN list of 36 vehicles that will require engine control module (ECM) replacement in addition to an ECM reprogramming event.

For the vehicles identified on the VIN list within the bulletin, there exists the potential to damage the starter motor if the ECM is attempted to be reprogrammed, instead of replaced.

An initial supply of engine control modules will be pre-shipped to involved dealers of record. This pre-shipment is scheduled to begin Monday, May 16th, 2016. Pre-shipped parts will be charged to dealer's open parts account.

The calibration file that supports this bulletin has now been reinstated in the Service Programming System (SPS).

Please discard all previous copies of bulletin 43190.

END OF MESSAGE
GLOBAL SAFETY FIELD INVESTIGATIONS

Service Update
43190 Twin Turbo Engine Overboost

Reference Number: N162043190 **Release Date:** May 2016
GWM Number: 2043190 **Revision:** 01
Revision Description: This bulletin has been revised to update the service procedure, include a VIN list and add Parts information. Please discard all previous copies of bulletin 43190.

Attention:	This service update includes vehicles in dealer inventory and customer vehicles that return to the dealership for any reason. This bulletin will expire at the end of the involved vehicle's New Vehicle Limited Warranty period.

Make	Model	Model Year		RPO	Description
		From	To		
Cadillac	CT6	2016	2016	LGW	3.0L V-6 Twin Turbo

Involved vehicles are marked "open" on the Investigate Vehicle History screen in GM Global Warranty Management system. This site should always be checked to confirm vehicle involvement prior to beginning any required inspections and/or repairs.

The VIN list below identifies 36 vehicles that will require ECM replacement in addition to a reprogramming event. Refer to the Service Procedure below for additional information.

1G6KE5R63GU151810	1G6KG5R60GU153220	1G6KG5R67GU150573	1G6KK5R60GU152597	1G6KK5R65GU150487
1G6KE5R67GU146352	1G6KG5R61GU149581	1G6KG5R67GU151447	1G6KK5R60GU152745	1G6KK5R65GU151820
1G6KE5R68GU152760	1G6KG5R64GU151373	1G6KG5R68GU153742	1G6KK5R60GU152809	1G6KK5R66GU150532
1G6KE5R69GU150662	1G6KG5R65GU150412	1G6KG5R68GU154082	1G6KK5R61GU149448	1G6KK5R67GU149633
1G6KE5R6XGU148970	1G6KG5R65GU153214	1G6KG5R69GU149554	1G6KK5R61GU150471	1G6KK5R68GU150497
1G6KE5R6XGU153019	1G6KG5R66GU149608	1G6KG5R69GU150512	1G6KK5R64GU151422	1G6KK5R69GU151982
1G6KG5R60GU151032	1G6KG5R67GU147186	1G6KK5R60GU150655	1G6KK5R65GU146195	1G6KK5R6XGU145835
1G6KK5R61GU153158				

Condition	This bulletin provides a service procedure to reprogram or replace the Engine Control Module (ECM) on certain 2016 model year Cadillac CT6 vehicles equipped with a 3.0L Twin Turbo (RPO LGW) Engine. Affected vehicles may illuminate the MIL indicator and be found to have DTC P0234 set. The vehicle may not accelerate as quickly compared to before the MIL illuminated. The vehicle is still able to accelerate, but has lesser performance than the Twin Turbo provides. The engine continues to start, idle and function in all other respects normally.
Correction	Dealers are to reprogram or replace the Engine Control Module as directed in the Service Procedure.

Part Information

Parts Pre-Ship Information – For USA & Canada

An initial supply of engine control modules will be pre-shipped to involved dealers of record. This pre-shipment is scheduled to begin Monday, May 16th, 2016. Shipments will cover all impacted vehicles. Pre-shipped parts will be charged to dealer's open parts account. All orders placed prior to, or during, the pre-ship will be cancelled.

Engine Control Modules replaced under this Service Update are on 100% part return.

Quantity	Part Name	Part No.
1 (If Required)	Engine Control Module	12679077

Warranty Information

Labor Operation	Description	Labor Time	Trans. Type	Net Item
9102205	Engine Control Module Reprogramming with SPS	0.4	ZFAT	N/A
9102234	Engine Control Module Replacement	0.9*	ZFAT	N/A

*Labor time includes ECM replacement and programming.

Service Procedure

Caution: If the vehicle VIN is listed in the table above, do NOT reprogram the engine control module prior to replacing it. Part damage to the starter motor can occur.

1. Refer to the VIN list above.

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- If the vehicle VIN is NOT listed in the table above, proceed to step 2.
- If the vehicle VIN is listed in the table above, replace the engine control module (ECM). Refer to *Engine Control Module Replacement (LGW)* in SI.

Note: Carefully read and follow the instructions below.

- Do NOT attempt to order the calibration number from GM Customer Care and Aftersales. The calibration numbers required for this service procedure are programmed into control modules via a Multiple Diagnostic Interface (MDI) with the calibration update. If you cannot access the calibration, call the Techline Customer Support Center and it will be provided.
- Do NOT program a control module unless directed to by a service procedure or a service bulletin. If the control module is not properly configured with the correct calibration software, the control module will not control all of the vehicle features properly.
- Ensure the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or control module damage may occur.
- Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. When required, install the *EL-49642* SPS Programming Support Tool to maintain system voltage. If not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply. DO NOT connect a battery charger.
- Turn OFF or disable systems that may put a load on the vehicles battery such as; interior lights, exterior lights (including daytime running lights), HVAC, radio, etc.
- During the programming procedure, follow the SPS prompts for the correct ignition switch position.
- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to NO.
- Note the engine oil life remaining percentage.

2. Install *EL-49642* SPS programming support tool.
3. Access the Service Programming System (SPS) and follow the on-screen instructions.
4. Perform the SPS function K20 Engine Control Module - Programming and follow the on-screen instructions.
5. Clear DTCs after completing the Programming procedure.

Note: If vehicle fails to start during Configuration and Setup, perform the SPS Function Immobilizer Learn and follow the on-screen instructions.

6. Perform the SPS function Engine Control Module - Configuration & Setup and follow the on-screen instructions, if available.
7. Clear DTCs after completing the Configuration & Setup procedure.

Caution: Verify the ignition is placed in the OFF position if the vehicle does NOT start. Part damage to the starter can occur.

8. Confirm the vehicle starts after the DTCs have been cleared.
    - If the vehicle does NOT start, confirm the ignition is in the OFF position and contact the General Motors Technical Assistance Center (TAC) for further assistance.
    - If the vehicle does start, no further action is required.

Dealer Responsibility

Whenever a vehicle subject to this service update enters your vehicle inventory, or is in your facility for service in the future, and the vehicle is still covered under the New Vehicle Limited Warranty, you must take the steps necessary to be sure the service update correction has been made before selling or releasing the vehicle.

All new, used, GM Certified Used, courtesy transportation vehicles, dealer shuttle vehicles, etc. in dealers' possession and subject to this bulletin must be held and inspected/repaired per the service procedure of this bulletin before customers take possession of these vehicles. Involved vehicles must be held and not delivered to customers, dealer-traded, released to auction, used for demonstration, or any other purpose.

All GM Certified Used vehicles currently in the dealers' inventory within the Certified Pre-Owned Inventory System (CPOIS) will be de-certified and must be held and remedied per the service procedure in this bulletin. Upon submitting an accepted/paid warranty transaction in the Global Warranty Management (GWM) system, the vehicle can be re-certified for sale within the CPOIS system, or once again be used in the CTP program.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the tools, equipment, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your dealer for information on whether your vehicle may benefit from the information.

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