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Super Cruise Update Provides Messaging Features

A new software update is now available for the 2018 CT6 equipped with Super Cruise (RPO UKL). The update includes new instrument cluster messaging that explains why Super Cruise is unavailable or needs to disengage, enables easier Super Cruise engagement when centering the vehicle in the lane, and improves Adaptive Cruise Control to provide smoother acceleration and braking.

Information about each message and its description can be found in the 2018 CT6 Owner's Manual available in the Service Information. The messages include specific reasons why Super Cruise is not available, such as "No Road Information," "Looking Away From Road for Too Long," and "Set Forward Collision Setting to Alert and Brake."

Reprogramming Modules

The software update requires reprogramming the following modules in order:

- 1. HVAC Control Module (K33)
- 2. Instrument Cluster (P16)
- 3. Multifunction Energy Storage Capacitor Control Module (K186)
- 4. Radar Sensor Module-Short Range (B233)
- 5. Active Safety Control Module (K124)

The modules should be programmed in the order listed with the ignition cycled off and on again between each programming event. If the Same Calibration/Software warning appears on the Service Programming





Super Cruise message displayed on the instrument cluster

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Customer Care and Aftersales

GM

QR Code on Certification Label Offers More RPO Codes

Beginning with the 2018 model year, a QR code was added to the Certification label on all Buick, Cadillac, Chevrolet and GMC models. The new QR code includes the Vehicle Identification Number (VIN), RPO codes and other information that identify the content of the vehicle. In previous model years, the Service Parts Identification (SPID) label, often located in the trunk or glovebox of a vehicle, included this information.

The two-dimensional QR code is a simple barcode that offers the former SPID information in a digital format. The Certification label on all GM models is located on the driver-side B pillar, with the exception of the Corvette where it's on the driver's door.

<text><text>

QR code on Certification label

QR Code Reader

Software to read the QR code is commonly available for any Android, iPhone or Windows smartphone. Many basic applications can be downloaded for free. Tested QR code readers that are easy to use include NeoReader by NM LLC, i-nigma by 3GVision, QR Scanner by Honestly App, QR Droid by DroidLa and Bar-Code by PW2. GM does not recommended any particular software.

TIP: If the vehicle information needs to be retained for service records or shared with others, most scanner software also has a feature to email the data.

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GM	MFD BY GE	NERAL MOTOR	SLLC
03/17	GVWF 2930 K	GAWR FR	T GAWR RR 1600 KG
	6459 L THIS VEHIC APPLICABI	B 3196 LB CLE CONFORMS LE U.S. FEDERA	3527 LB TO ALL L MOTOR
	SHOWN AB	AFETY STANDA TE OF MANUFA	RDS IN EFFECT
636R	1GNKV TYPE: M.P.	JKDXHJ3	10492
TIRE SIZE FRT P255/55R20 RR P255/55R20	H	RIM MO 20X7.5J 20X7.51	DEL: X2CV14526
SPA T145/70R17	M	17X4.5B	

For U.S. dealerships, an OPTICON Bluetooth Companion Scanner (2D Imager), tool number PX-20, is available from www.gmdesolutions.com. The scanner works with a USB cable or is connected via Bluetooth to a laptop.

More RPO Codes Added

Once the QR code is scanned, the vehicle information will appear in the following order: VIN, Model Year, Model, Build Month, Year, Engineering Book, Vehicle Order Number, 3 Digit RPO Codes sorted alphanumerically, and the Paint Code (the paint code also appears in the lower left of the QR code).

For example, here's the information as shown from a scanned QR code:

1GNKVGKD1HJ263691,2017,CV14526,03,16,17, TSNWHZ,AG5 AH5 AR9 AXP AYQ C67 DLT DS3 EF7 FE2 GZW IPC I17 JL9 LLT MAH M7X NP5 NT7 QD6 QLW TB4 UI2 UQF U2K V8D WMH X88 1LT 17U 5PK 6AB 7AB 8UM 83C 83I 9UM,636R, , , ,

The commas indicate separation of information; however, the RPOs do not have comma separation. Instead, the RPO codes are separated by a space. The RPO codes also are bolded in the example, but not in the actual information displayed from the QR code.

The commas after the paint code indicate the database of the paint code. There are four databases. The example shows the paint code was retrieved from the first database.

Up to 48 RPO codes may be displayed from the scanned QR code. It does not include all the RPO codes as displayed in the Investigate Vehicle History.

RPO descriptions can be found in the appropriate Service Information under General Information. The following table lists the RPO family descriptions that may be included on the vehicle.

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QR code and Paint Code

QR Code on Certification Label Offers More RPO Codes - continued from page 2

RPO Family Descriptions

ADJUSTER DRIVER SEAT	NEW COLOR PAINT (CCK) SPECIAL PAINT
ADJUSTER PASS SEAT	ORNAMENTATION EXT
AXLE LIMITED SLIP	ORNAMENTATION FINISH
AXLE POSITRACTION LIMITED SLIP	PACKAGE OPTIONS
AXLE POSITRACTION LIMITED SLIP, ELECTRONIC	PERFORMANCE DATA AND VIDEO RECORDER W/NAVIGATION
AXLE RR	PERFORMANCE PACKAGE CARBON FIBER
BODY EQUIPMENT	PERFORMANCE PACKAGE CARBON FIBER, VISIBLE
BRAKE SYSTEM	PERFORMANCE PACKAGE GRAND SPORT
CALIPER COLOR	PERFORMANCE PACKAGE SPECIAL COUPE
CERTIFICATION	PERFORMANCE PACKAGE Z06
CHASSIS DRIVE LINE	PERFORMANCE TRACTION MANAGEMENT
COMPONENT FRT LH	PLANT CODE
COMPONENT FRT RH	PRIMARY COLOR
COMPONENT RR LH	RADIO
COMPONENT RR RH	REAR AXLE RATIO
CONTROL SALES ITEMS	REAR LOCKING DIFFERENTIAL
COUNTRY	RESTRAINT SYSTEM
DECAL PACKAGE	ROOF
DIGITAL AUDIO SYSTEM S-BAND "NOT INSTALLED"	SALES PACKAGE DESIGNER THEME
ENGINEERING YEAR	TRACK PERFORMANCE PACKAGE: * PERFORMANCE RIDE & HANDLING SUSPENSION * SUMMER ONLY SPORT CUP RUN-FLAT TIRES * ADJ HIGH-WING SPOILER * FRONT SPLITTER END CAPS

DISPLAY INSTRUMENT	SEAT BELT COLOR
EMISSION OVERRIDE - STATE SPECIFIC	SEAT
EMISSION OVERRIDE CALIFORNIA SYSTEM	SPEAKER SYSTEM
EMISSION OVERRIDE FEDERAL SYSTEM	STEERING WHEEL
EMISSION SYSTEM	TIRE ALL
ENGINE	TIRE SPARE
EXHAUST SYSTEM	TRAILERING PROVISIONS
EXPORT	TRANSMISSION
GENERATOR	TRIM COMBINATION
GVW RATING	VEHICLE FUEL
HEAD-UP-DISPLAY	VEHICLE STATEMENT
HVAC SYSTEM	VEHICLE TYPE
IDENTIFICATION EPA MASS CERTIFICATION	VIN MODEL YEAR
INFOTAINMENT SYSTEM	VISIBLE CARBON FIBER HOOD INSERT
INTERIOR TRIM CONFIGURATION	WHEEL SPARE
INTERIOR TRIM	WHEEL
MARKET BRAND	Z51 PERFORMANCE PACKAGE
MARKETING AREA	
MIRROR O/S	

Thanks to Lisa Scott

Super Cruise Update Provides Messaging Features

- continued from page 1

System (SPS) screen, select OK and continue programming.

Refer to Control Module References in the appropriate Service Information for module programming instructions. Record the SPS Warranty Claim Code for each programming event on the job card.

 Thanks to Katul Patel
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Unavailable	Unavailable	Unavailable	Unavailable
GPS Signal Lost	Sharp Curve	Driving Too Fast	Driving in Exit Lane
Unavailable	Unavailable	Unavailable	Unavailable
Sensor Can't See	Set Forward Collision Setting to	No Road	Center Vehicle
Face Clearly	Alert and Brake	Information	In Lane
Unavailable	Unavailable	Unavailable	Unavailable
Turn on Adaptive	Looking Away From	Sensors Can't Find	You Have Taken
Cruise Control	Road for Too Long	Lane Lines	Vehicle Control
Unavailable Sensor Blocked	Super Cruise Unavailable	Super Cruise Locked Out See Owner's Manual	

Super Cruise disengagement messages

Properly Connect Sensors during Air Distributor Case Replacement

Some 2016-2017 Envision models may have warm air blowing through the rear HVAC vents when the air conditioning is commanded on. If this condition is found, the auxiliary temperature valve inside the A/C distributor case may be fractured, with the pivot for the temperature valve pulled away from the actuator motor.



Good temperature valve (1) and damaged temperature valve (2)

Verify the temperature valve is working properly. If the rear A/C vents are blowing warm air, replace the A/C distributor case. If the temperate valve is working correctly, refer to the appropriate Service Information to continue system diagnostics.

When replacing the A/C distributor case, mark each of the temperature sensor wires and note their location prior to removal to avoid

incorrectly connecting the replacement case. The wire harness length makes it possible for the temperature sensor connectors to be plugged into the wrong sensor. If the wires are connected to the wrong sensor, the passenger side vents may blow warm air.

The upper Duct Air Temperature (DAT) sensor has a purple/black wire. The Evaporator Air Temperature (EAT) sensor has a gray/ black wire. Confirm the wire color to ensure the wires are plugged into the correct location.



A. Upper DAT sensor (purple/black wire)

ℜ Thanks to Kris Villegas

Audio Conditions after TIS2Web Amplifier Programming

After replacement or programming the amplifier on some 2015-2017 Silverado, Tahoe, Suburban, Sierra, Yukon, Escalade and 2014 Silverado 1500 and Sierra 1500 models equipped with infotainment system RPO IO5, IO6 or RAO, several audio conditions may be present. These audio conditions may include abnormally loud voice prompts, fade/balance that does not adjust correctly, and DTC B101E (Electronic Control Unit Software) sym 42 (Calibration Not Programmed) set in the amplifier.

If these conditions are found, use GDS2 to view the amplifier calibrations. Do not replace any parts if any calibrations are blank or read zero. GM is working toward a service solution for this condition. Contact the Techline Customer Support Center (TCSC) for programming assistance to correct the amplifier calibration.

$\boldsymbol{\mathfrak{S}}$ Thanks to Ryan Dorland



Infotainment System RPO IO6

B. EAT sensor (gray/black wire)

Lack of Power When Accelerating

The following conditions at low speeds may be found on some 2015-2016 Colorado and Canyon models equipped with the 3.6L V6 engine (RPO LFX):

- Chugging and/or lack of power when accelerating at speeds of 12-15 mph (19-24 km/h) in 2nd gear.
- Chugging, lack of power, or no downshift when accelerating at speeds of 30-40 mph (48-64 km/h) in 6th gear.



 Spark knock under light acceleration or when climbing an incline under load.

These conditions are most likely to occur while driving on a smooth road and up a slight or moderate grade when accelerating. DTC P0326 (Knock Sensor Performance Bank 1) may be set in history in the Engine Control Module (ECM).

The lack of power conditions may be caused by an anomaly in the ECM and Transmission Control Module (TCM). An updated software calibration is available to address these conditions.

The ECM and TCM must be reprogrammed sequentially to the latest software calibration available to avoid other malfunctions and drive quality degradation. If both the ECM and TCM are not updated, they will be incompatible and will not perform correctly.

S Thanks to Charles Hensley

Missing Speed Limit Icon on Driver Information Center

A side-by-side view of the speed limit icon and digital speedometer may not be available on the Driver Information Center on 2017 Colorado and Canyon models equipped with the RPO IO6 infotainment system. Owners of some 2017 models may question why their truck does not have this feature while 2018 models do. They may also state that the speed limit icon was present when the truck was new but no longer appears on the Driver Information Center.



Digital speedometer display on the DIC

The side-by-side speed limit icon and digital speedometer DIC page

functionality was turned off for 2017 model year production vehicles, but some 2017 vehicles may have temporarily displayed the information before it permanently disappeared after a vehicle calibration update. The calibration update may have been performed for another repair.

The speed limit icon can be displayed on 2017 models, but it is separate page on the DIC and is not displayed with the digital speedometer.

If this speed limit icon and digital speedometer display condition is encountered, do not replace parts or attempt repairs as this feature is no longer available for 2017 model year vehicles.

S Thanks to Charles Hensley

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