



Service Bulletin

File in Section: -

Bulletin No.: PI1334

Date: October, 2014

PRELIMINARY INFORMATION

Subject: Key Programming and Adding Keys for Caprice PPV After Converting to AU7-6E3/6E4

Models: 2014-2015 Chevrolet Caprice PPV

A police department may inquire about how to convert an AX2 equipped Caprice PPV to a 6E3 or 6E4 key.

Follow the instructions below to convert an AX2 equipped vehicle to a 6E3 or 6E4 equipped vehicle.

The Caprice has different key blanks, regular unique production key (RPO AX2, part #19205407 or 92193937) and a fleet key (RPO AU7/6E3 and AU7/6E4, part #19205408, 19205409, 19205419, 19205420 and 92247727). Each key type has specific data programmed into it at the time of manufacture. This is very important when adding new keys to the vehicle as it may affect programming.

The ignition cylinder, door lock cylinders, deck lid cylinders and 2 new fleet keys need to be ordered and replaced. Then the BCM memory needs to be cleared of all previously learned keys.

Step 1: Reprogram The BCM (2014 ONLY- Refer to the latest version of PI1208)

Update the BCM using the Service Programming System (SPS) with the latest calibrations available on TIS2WEB. Refer to the SPS procedures in SI.

Important: Verify the battery voltage is more than 12 volts but less than 16 volts before proceeding with reprogramming. The battery must be fully charged **BEFORE** reprogramming.

Important: During reprogramming, the battery voltage must be maintained within the proper range of 12-15.5 volts. **CONNECT** the approved Midtronics® PSC 550 Battery Maintainer (SPS Programming Support Tool (EL-49642) to the vehicle or the GR8 (EL50313) in the power supply mode.

Verify vehicle function after programming event with original keys.

Step 2: Replace Ignition cylinder, door lock cylinders and deck lid cylinders

Refer to Ignition Lock Cylinder Replacement, Front Side Door Lock Cylinder Replacement and Rear Compartment Lid Lock Cylinder Replacement in SI.

Step 3: Programming New Keys

To program new keys it is necessary to obtain a VCI number through the Techline Customer Support Center (TCSC) (800-828-6860 English or 800-503-3222 French). This may take 24 hours.

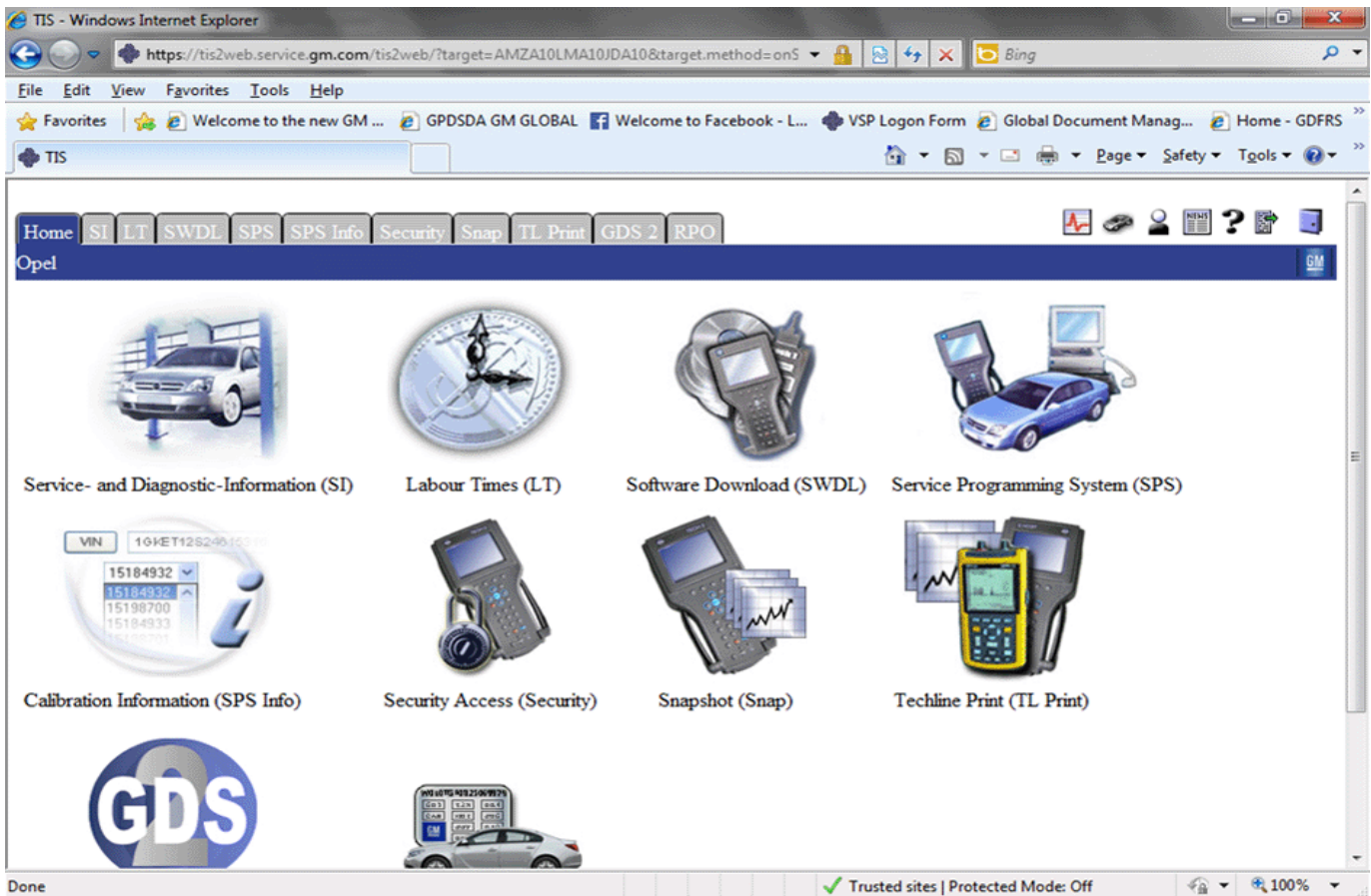
Techline will request a VCAP from each vehicle needing this fleet change.

Important: You must have new "Fleet Key" Remotes — the original non "fleet key" remotes **MUST BE DISCARDED!**

Important: During programming, the battery voltage must be maintained within the proper range of 12-15.5 volts. **CONNECT** the approved Midtronics® PSC 550 Battery Maintainer (SPS Programming Support Tool (EL-49642) to the vehicle or the GR8 (EL50313) in the power supply mode.

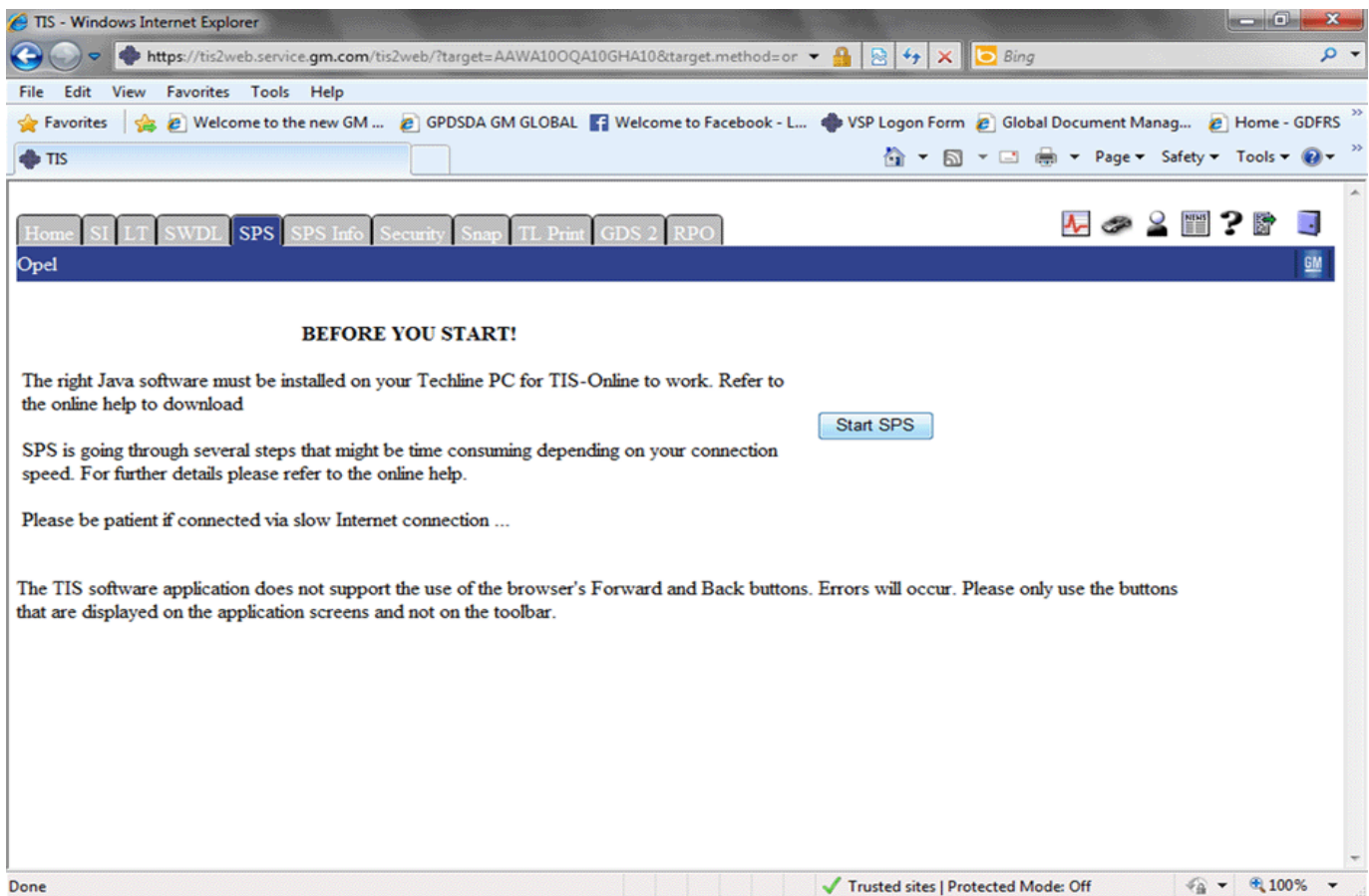
Note: Replace lock cylinders before starting this step.

1. Connect an MDI to the vehicle and to the Techline PC.
2. Ensure that all power consuming devices are turned OFF on the vehicle.



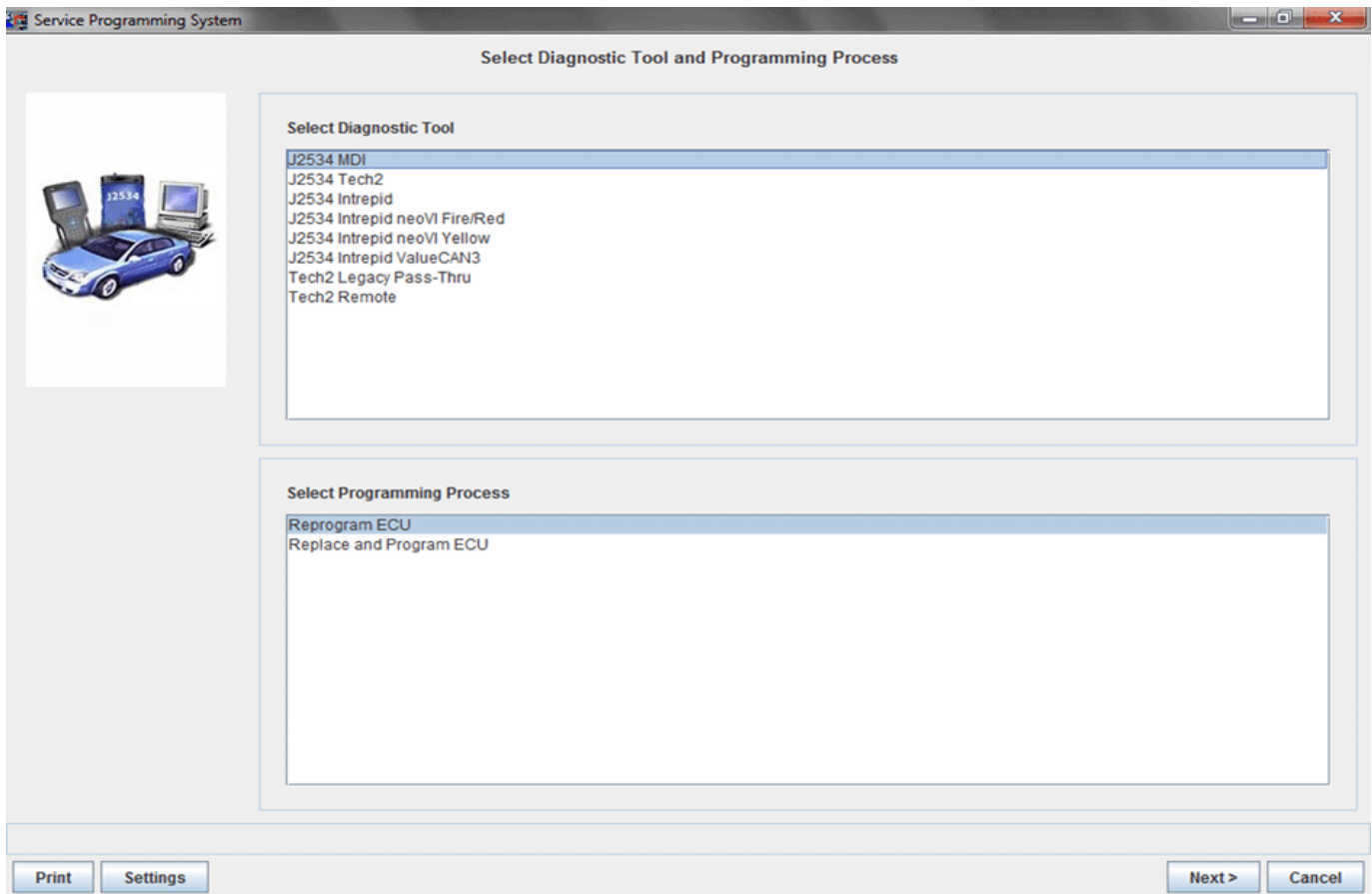
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3. From the TIS Home Page select “Service Programming System (SPS)” and follow the screen instructions.



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4. Select "Start SPS" application and follow the on-screen instructions.



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5. Select: "J2534 MDI" and "Reprogram ECU" then select "Next."

**Connect J2534 device to vehicle and PC:**

Turn ignition off.

Verify vehicle battery fully charged.

Turn ignition on, engine off.

Connect J2534 device to Data Link Connector.

Connect J2534 device to PC.

Switch J2534 device on and wait for device to get ready.

After Programming, the technician will be given the opportunity to clear Diagnostic Trouble Codes from ALL ECU's on this vehicle.

The technician may want to record DTCs and Freeze Frame Data before continuing.

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6. Follow the On Screen Instructions the select "Next."

Service Programming System

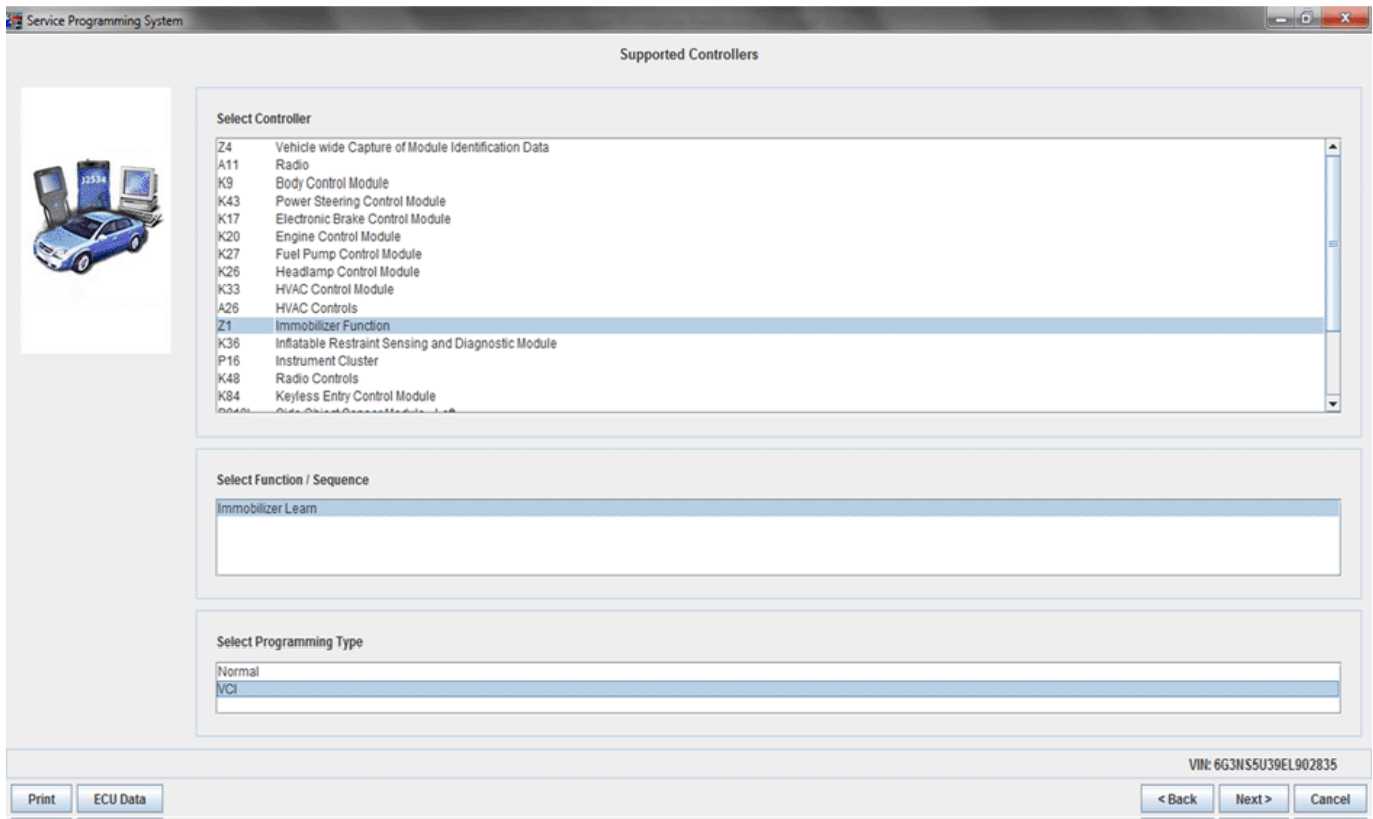
Validate/Select Vehicle Data

Salesmake	Chevrolet (Holden)
Model Year	2014
Vehicle Type	Passenger Car
Car Line	CAPRICE

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7. Select:
- Salesmake: “Chevrolet (Holden)”
 - Model Year: “2014”
 - Vehicle Type: “Passenger Car”
 - Car Line: “CAPRICE” then select “Next”



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9. Select “Z1 Immobilizer Function” and “Immobilizer Learn” and “VCI” then select “Next.”

Service Programming System

Programming by VCI

Enter a Valid VCI Number for this Vehicle. The VCI must be supplied by the Customer Support Center, and is only valid for this VIN. Do not enter a VCI you used previously for another vehicle.

VIN: 6G3NS5U39EL902835

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10. Enter the "Fleet Key" VCI supplied for this specific vehicle by the Techline Customer Support Center.
11. Select "Next."

Service Programming System

Summary

Immobilizer Function - Immobiliser Learn

Curr. ECU Software	Select ECU Software	Description
ImmoList		
fleet		
10002936		

Vehicle Data

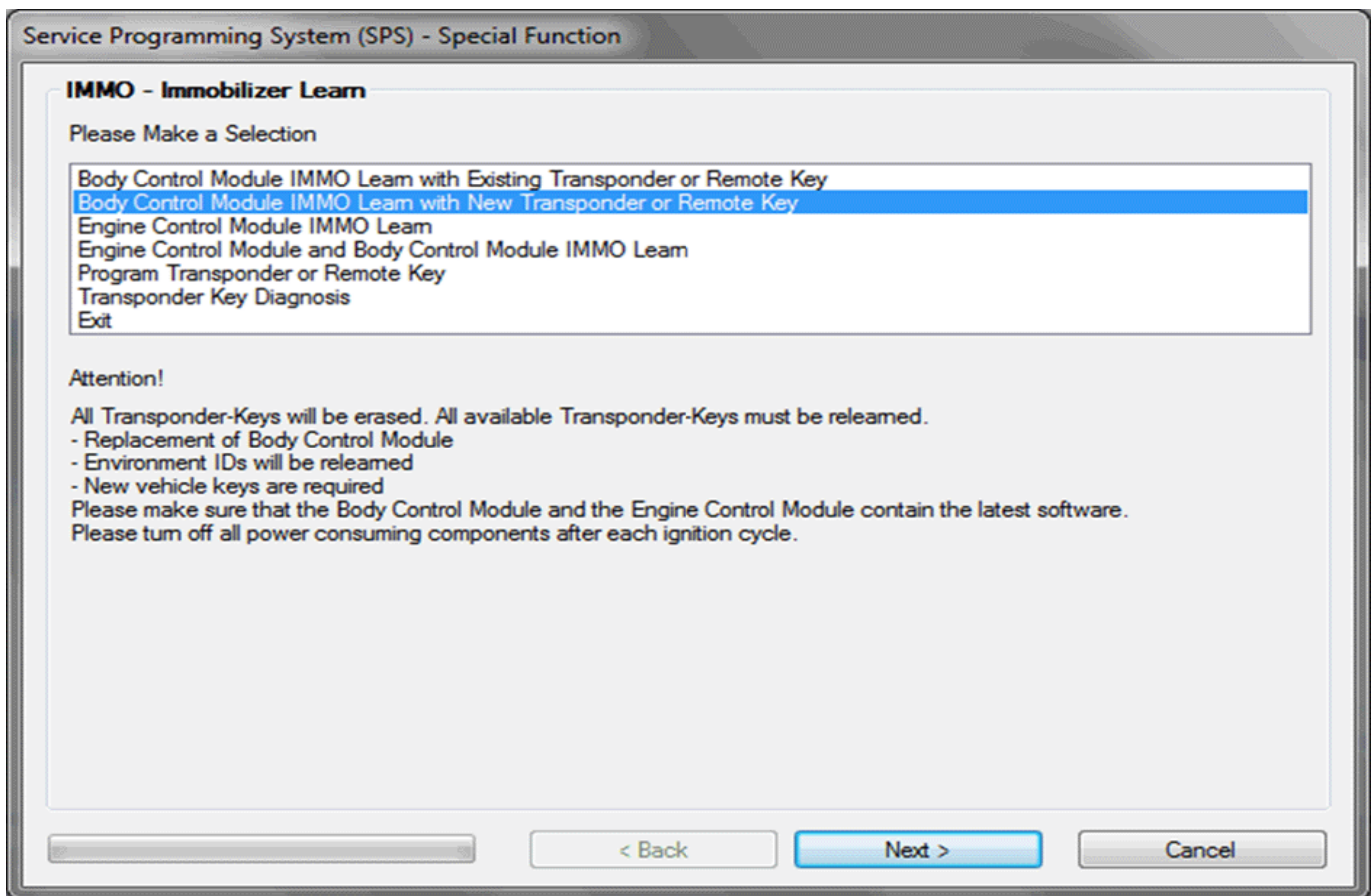
Attribute	Value
Salesmake	Chevrolet (Holden)
Model Year	2014
Model	CAPRICE
Engine	6.0L (L77)

VIN: 6G3NSSU27EL902842

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12. Select "Next" again.



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13. Select: "Body Control Module IMMO Learn with New Transponder or Remote Key" then select "Next."

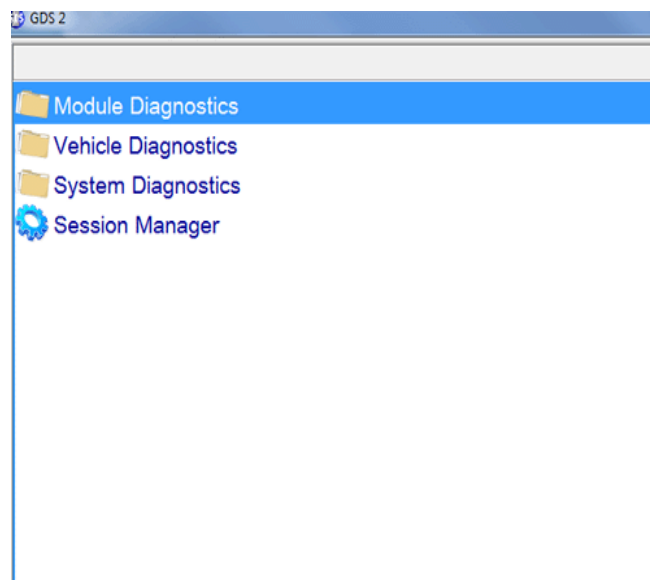
Important: You MUST use the new "Fleet Key" Remotes and program at least 2 keys.

14. Clear any DTCs.

Step 4: Verify "Fleet Key" Type in GDS2

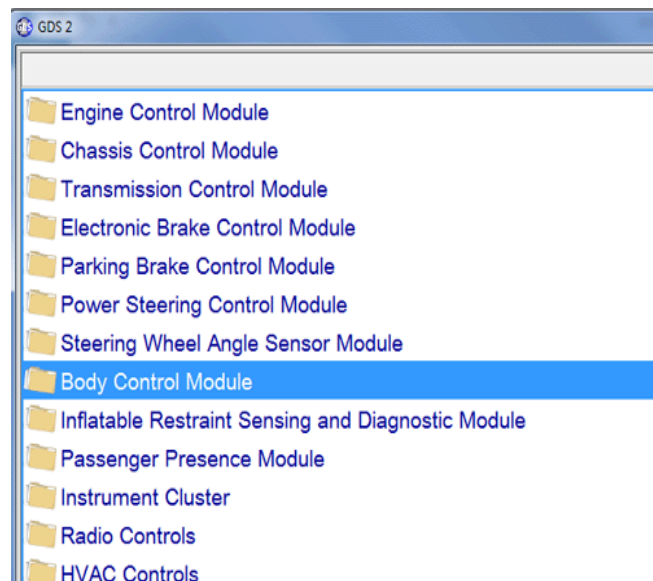
Verify that the key type is listed as "Fleet" in GDS2 following the steps below:

1. Connect an MDI to the vehicle and to the Techline PC.
2. Ensure that all power consuming devices are turned OFF on the vehicle.
3. Select the GDS2 application and follow the on-screen instructions.



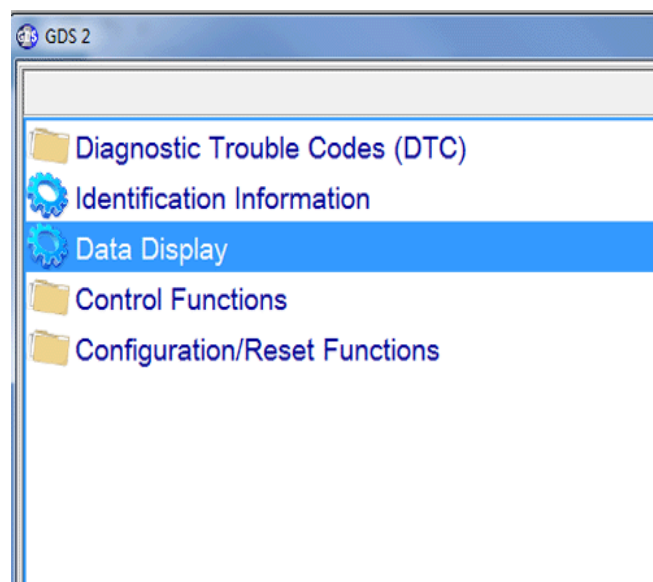
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4. Select "Module Diagnostics."



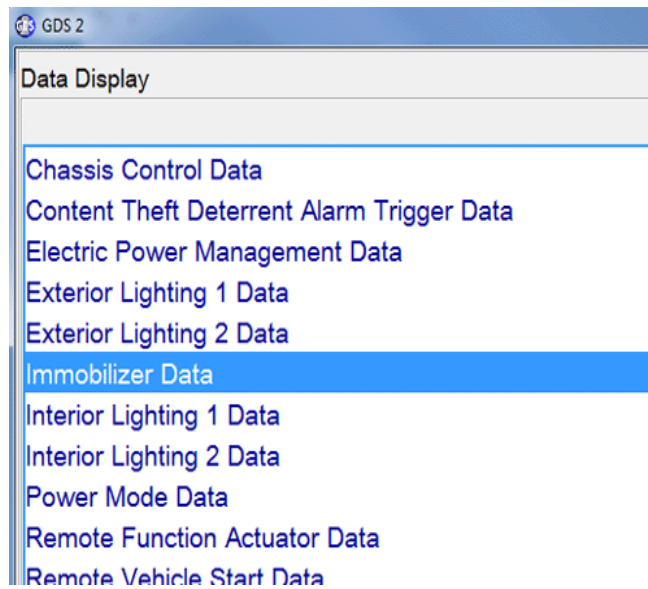
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5. Select "Body Control Module."



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6. Select "Data Display."



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7. Select "Immobilizer Data."

GDS 2

Data Display

Diagnostic Data Display Graphical Data Display Line Graph

Immobilizer Data

Parameter Name	Control Module	Value	Unit
Environment Identification	Body Control Module	Unknown	
Key Part Number	Body Control Module	0	
Master Keys Learned	Body Control Module	0	
Total Keys Learned	Body Control Module	2	
Key Type	Body Control Module	Fleet Key	
Previous Key Type	Body Control Module	Unknown	
Primary Key Status	Body Control Module	Yes	
Secondary Key Status	Body Control Module	No	
Immobilizer Allows Engine to Start	Body Control Module	Valid	
Immobilizer Automatic Learn Timer	Body Control Module	Inactive	
Immobilizer Environment Device 1	Body Control Module	Correct	
Immobilizer Environment Device 2	Body Control Module	Correct	
Immobilizer Environment Device 3	Body Control Module	Correct	
Immobilizer Environment Device 4	Body Control Module	Correct	
Immobilizer Password Learn	Body Control Module	Inactive	
Immobilizer Password Learn Scan Tool Delay	Body Control Module	0	
Immobilizer Security Code Accepted	Body Control Module	No	
Immobilizer Security Code Lockout	Body Control Module	No	
Immobilizer Security Code Programmed	Body Control Module	Yes	
Telematics Enhanced Service Override Active	Body Control Module	No	

Back Home Vehicle Menu Enter

GDS 2 v12.0.00835 GM PreProduction v2014.9.25 VIN: 6G3NS5123F1938320 Global 2014 Chevrolet Camaro 12.1 V

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Note: An unlimited amount of keys can be learned, but the BCM will only allow 8 RKE transmitters to be learned to the vehicle. If more than 8 fobs are learned, these keys will not work or be able to be learned to any other vehicle again.

Adding Additional Keys (Refer to the latest version of PI1195)

To add additional keys, follow the steps below:

- 1. With a previously learned key that currently functions in the vehicle, turn ignition ON with the engine OFF.
- 2. Turn OFF the ignition and remove the key.
- 3. Within 10 seconds of turning OFF the vehicle, insert the key to be learned and turn ON the ignition, wait 5 seconds, turn off the ignition and remove the key. If more than one key is to be learned, repeat the process for every key. The vehicle has now learned the new key(s).

Note: If you mistakenly program a key thinking the Theft Deterrent Module (TDM) is in one mode and it is not, the programmed key(s) will need to be scrapped. They cannot be programmed a second time.

Important: Keys can only be programmed once.

Note: 2014 BCM as built software limited the key quick learn process to only be able to learn 8 keys. This new BCM software update allows unlimited keys (not RKE after the first 8) to be quick learned.

Note: Fleet keys will start and operate other like vehicles. RKE keys (FOBS) will only work on vehicles they were programmed to.

Important: Make sure the vehicle is out of transport mode and ignition off for at least 15 seconds before trying to program any keys.

All vehicles with Global A electrical systems can learn up to 8 key fobs. The PPV is different with the ability to learn additional keys (not FOBS).

The Vehicle Theft Deterrent (VTD) and Remote Keyless Entry (RKE) components are located on the same circuit board within the key. When a key is programmed to the vehicle, both VTD and RKE components are learned at the same time.

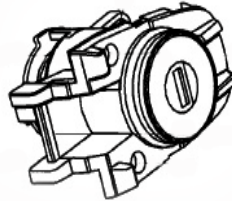
Ignition Cylinder



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Part Number	Description
20766607	CYLINDER IGN LK

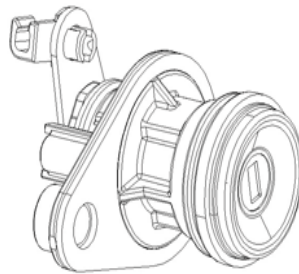
Door Lock Cylinder



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Part Number	Description
20912091	CYLINDER FRT S/D LK

Rear Compartment Lid Lock Cylinder



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Part Number	Description
92294861	CYLINDER R/CMPT LID LK

Key/Transmitter Assembly



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Legend

(1) RKE Key

Part Number	Description
Refer to Parts/RPO information for ordering	Key/Transmitter Asm, Door Lock and Ignition Lock, (CUT KEY) Fleet (AU7) Keyed Alike (6E3)
Refer to Parts/RPO information for ordering	Key/Transmitter Asm, Door Lock and Ignition Lock, (CUT KEY) Fleet (AU7) Keyed Alike (6E4)
13585688	Key/Transmitter Asm, Door Lock and Ignition Lock, (UNCUT KEY) Fleet (AU7) Key Blank (6E3/6E4)

Key/Transmitter Assembly



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Legend

(2) Non RKE Key

Part Number	Description
Refer to Parts/RPO information for ordering	Key, Door Lock and Ignition Lock, (CUT KEY) Fleet (AU7) Keyed Alike (6E3) (Basic Key with Blank Transmitter)
Refer to Parts/RPO information for ordering	Key, Door Lock and Ignition Lock, (CUT KEY) Fleet (AU7) Keyed Alike (6E4) (Basic Key with Blank Transmitter)
92271668	Key, Door Lock and Ignition Lock, (UNCUT KEY) Fleet (AU7) Key Blank (6E3/6E4) (Basic Key with Blank Transmitter)

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Legend

(2) Package of 6 Basic Keys-Non RKE

Part Number	Description
Refer to Parts/RPO information for ordering	Key, Door Lock and Ignition Lock, (CUT KEY) Fleet (AU7) Keyed Alike (6E3) (Package of 6 Basic Keys with Blank Transmitter)