

QUALITY ACTION

BULLETIN Transmission Control Module Reprogram

> Reference: PC507 Date: November 10, 2016

CAMPAIGN

Attention: Dealer Principal, Sales, Service & Parts Managers

| Affected Models/Years: | Affected | Dealer | SERVICE COMM | Stop Sale |
|--------------------------|-------------|------------|-------------------|-----------|
| | Population: | Inventory: | Activation date: | In Effect |
| MY2016-17 Titan XD(A61D) | NA | 4,907 | November 10, 2016 | NO |

***** Detailed Information *****

Nissan is conducting a dealer inventory service action to reprogram and, if necessary calibrate, the Transmission Control Module (TCM) on specific MY2016-17 Titan XD (A61D) vehicles identified in SERVICE COMM. These vehicles are either currently in dealer inventory or assigned and in transit to the dealer. No parts are required for this action.

***** What Dealers Should Do *****

- 1. Verify if vehicles currently in <u>dealer inventory</u> are affected by this inventory service action using Service Comm I.D. <u>PC507.</u>
- 2. Use the attached procedure to reprogram and, if necessary, calibrate the TCM.

Note: Dealers should continue to check new arriving inventory for applicability.

3. Dealers are requested to remedy any affected vehicle in dealer new or pre-owned inventory to ensure customer satisfaction.

Thank you for your prompt attention to this matter.

NISSAN NORTH AMERICA, INC.

Aftersales DIVISION



PC507 - 2016-2017 TITAN XD TCM REPROGRAM

SERVICE PROCEDURE

NOTE:

- Most instructions for reprogramming with CONSULT-III plus (C-III plus) are displayed on the CONSULT PC screen.
- For the Titan XD Diesel, the GR8 set to ECM power supply mode can be attached to either 12 volt battery.

CAUTION:

 Connect the GR8 to the 12V battery and set to ECM power supply mode.
 If the vehicle battery voltage goes below <u>12.0V or above 15.5V</u> during

reprogramming, the TCM may be damaged.

- Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, <u>the TCM may be damaged</u>.
- Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and <u>the TCM may be damaged</u>.
- Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI. If Bluetooth[®] signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and <u>the TCM</u> <u>may be damaged</u>.

- 1. Park vehicle in a safe location and set the parking brake.
- 2. Connect the plus VI to the vehicle and open/start CONSULT-III plus.
- 3. Confirm the ignition is ON, with engine OFF.
- 4. Confirm the plus VI is recognized.
 - The **Serial No.** will display when the plus VI is recognized.
- 5. Select **Re/programming, Configuration.**

| | Back Home Print Screen Capture Mode Rec | Image: Wight of the second state Image: Wight of the second state Image: Wight of the second state Image: Wight of the second state |
|-------------------------------------|---|---|
| | Connection Status | Diagnosis Menu |
| | Serial No. Status | Diagnosis (One System) |
| Step 4: plus VI is recognized | VI 2300727 Normal Mode/Wireless connection | Diagnosis (All Systems) |
| | MI - One Connection | Re/programming, Configuration |
| | Select VI/MI | Immobilizer |
| | Application Setting Sub Sub | Maintenance |
| | VDR | |

Figure 1

- 6. Use arrows (if needed) to view and read all precautions.
- 7. Check the box confirming the precautions have been read.
- 8. Select Next.

| | Image: Back Image: Screen bid |
|-----------|---|
| | Re/programming, Configuration |
| | Precaution Operating suggestions for reprogramming, programming and C/U configration: Please review the all of precautions, and click the "Confirm" check box after confirming the its points. And |
| | touch "Next". |
| | Caution: 1. Follow the operation guide displayed on screen. 2. "Back" and "Home" button may not be used on this flow |
| | -For reprogramming and programming 1. Install the latest version of the CONSULT-III plus sortware, reprogramming/programming data to this CONSULT-III plus PC. 2. Prenartion and read the service manual or reprogramming procedure sheet |
| | -For ECU Configuration 1. Need to write the configuration data to new ECU, after replace it. 2. If writing the wrong configuration data, ECU can not work. Please write the right data. Step |
| Step 7 | -For ECU Configuration using manual mode 1. Confirm the vehicle's spec and its configuration spec, following the service manual. If writing the vehicle's spec and its configuration spec, following the service manual. If writing the vehicle's special service manual and the vehicle's special service service manual and the vehicle's special service service manual and the vehicle's special service |
| <u> </u> | Confirmed instructions |
| | Figure 2 |

- 9. Select Nissan, Vehicle Name, and then the correct Model Year.
 - If the screen in Figure 3 does not display, skip to step 10.

| | Back Home | Print Screen Captur 1g, | ne Measurement Re Mode Precaution | Corded Data | 12.2V VI MI Vehicle Confirmation | |
|------|-----------------------|----------------------------|--------------------------------------|-------------------|-------------------------------------|---------------|
| | Automatic S | election(VIN) | Manual Select | ion(Vehicle Name) | | |
| Step | Vehicle Name : | | | | Model Year : | Sales Channel |
| | *MURANO Camp:P8201 | JUKE | QUEST | | | NISSAN |
| | 350Z | LEAF | ROGUE | | Sten | INFINITI |
| | 370Z | MAXIMA | SENTRA | | 9 | |
| | 370Z Convertible | ми | N | | | |
| | ALTIMA | | npie | | | |
| | ALTIMA Hybrid | NISSAN GT-R | VERSA Hatchback | | | |
| | ARMADA | NV | VERSA Sedan | | | |
| | CUBE | PATHFINDER | XTERRA | | | CLEAR |
| | FRONTIER | PATHFINDER ARMADA | X-TRAIL | | | Calaat |
| | | | | | 010 | Select |
| 1 | | | | | | |

Figure 3

10. Make sure **VIN or Chassis #** matches the vehicle VIN.

11. If the correct VIN is displayed, select **Confirm**.

| | Back Brown Print Screen Screen Capture Configuration Vehic Configuration Vehic Configuration and to touch "Change". | Messerenet Mode Cle Selection Wehicle Confirmation Wehicle Confirmation Wehicle Confirmation | |
|------------------------|---|---|---------|
| Step 10 Verify here | VIN or Chassis # | | |
| | Vehicle Name : | ■70 | |
| | Model Year | | |
| | | | |
| | | | |
| | | | Change |
| | | Step 11 | Confirm |

Figure 4

12. Select **Confirm**.

| Back Image: Former land Image: Former land <th></th> | |
|--|---------|
| Re/programming, Configuration Vehicle Confirmation Input VIN System Selection | 4/6 |
| Input VIN | |
| Enter the VIN number, and touch "Confirm". According to this operation, in case of specified operation that requires to save ECU information into CONSULT, VIN number you input is saved as file name. Therefore, confirm VIN number correctly. | |
| | |
| VIN (17 or 18 digits) | |
| | |
| | |
| Ston . | |
| | Confirm |

Figure 5

13. Select **TRANSMISSION** on page 2.

| Back Image: Print Screen Image: Print Screen | | | | | | |
|--|-------------|--------------|------------|--|--|--|
| ENGINE | METER/M&A | нуас | | | | |
| MULTI AV | ВСМ | TRANSMISSION | | | | |
| ABS | CAN GATEWAY | | Step 13 | | | |
| IPDM E/R | EV/HEV | | | | | |
| HEAD LAMP LEVELIZER | AIR BAG | | | | | |
| | | 2/2 | | | | |

Figure 6

14. Select Reprogramming.

| | Back Image: Design and the second |
|------------|--|
| | Operation Selection |
| | Touch "Operation". In case over write current ECU, touch "Reprogramming". In case replacement of ECU, select an operation in REPLACE ECU category. |
| | REPROGRAMMING |
| Step 14 | Reprogramming |
| | CReplacement OF ECU |
| | Programming (Blank ECU) |
| | Programming In case you want to replace ECU, you should operate followings. Before replace ECU, ECU data is saved to CONSULT. After replace ECU, CONSULT writes ECU data and programming data. |
| | VEHICLE CONFIGURATION |
| | Read / Write In case you has already replaced ECU, touch "Manual Configuration". Configuration Manual Configuration |

Figure 7

- 15. When you get to the screen shown in Figure 8, confirm this bulletin applies as follows.
 - a. Find the TCM **Part Number** and write it on the repair order.

NOTE: This is the <u>current</u> TCM Part Number (P/N).

| | Ver.CSP20.30 | | 2014 | | | States |
|--|---|---------------------------------|---|-----------------------------|----------------|----------------|
| Back Home | Print Screen Capture | Measurement Mode | Recorded Data | 11.9V | Yil Vi | × • • · |
| Re/programmin Configuration | ng, Opera | tion Selection | Save ECU Data | | | 7/7 |
| Save ECU Data | | | | | | |
| Touch "Save" to sa Operation log helps after operation has c | ve operation log and th to restart next operation ompletely finished. | e current par n by selecting | t number as listed below g suitable operation log. C | to CONSUL1 Operation log | ī. Is erase | d |
| File Label | | | xxxxxxxxx xx | xxxx | | |
| Operation | | | REPROGRAMM | IING | | |
| System | 15a: <u>Current</u> T | CM P/N | TRANSMISSIO | N | | |
| Part Number | | | 31036 -XXXX | x | | |
| Vehicle | | | ***** | xxx | | |
| VIN | | | ***** | xxxxx | | |
| Date | | | ***** | xxxxx | | Save |
| | | | | | | |

Figure 8

- b. Compare the P/N you wrote down to the numbers in the **Current TCM Part Number** column in **Table A** below.
 - If there is a **match**, follow the instructions in Table A.
 - If there is **not a match**, this bulletin **does not apply**. Refer to ASIST for further diagnosis.

Table A

| Current TCM Part Number: 31036 - | Instructions |
|-------------------------------------|--|
| EZ02B, EZ02D, EZ03B, EZ03D | Complete the Reprogramming. Perform Transmission Calibration. |
| | Complete the Reprogramming only. |
| | No other procedures in this bulletin are required. |

16. Select Save.

| | | Venicle . INFINITEMSSITTEST 2012 | 2 Country . 0.3.A. |
|--|--|--|--------------------|
| Back Rome Print Screen Capture | Measurement Mode Recorded | Image: Weight of the second | × 🖿 📃 🔀 |
| Configuration | tion Selection | ECU Data | Π |
| Save ECU Data | | | |
| Touch "Save" to save operation log and th Operation log helps to restart next operation after operation has completely finished. | e current part number as li n by selecting suitable ope | isted below to CONSULT. ration log. Operation log is erase | d |
| File Label | JI∎1B | n 1 n p 10: NN 9 1 0: 1 11 | |
| Operation | R | Piedor Aminin U | |
| System | | engine I | |
| Part Number | 1 | ₿ 7₩D-₩A @D A ₩ | |
| Vehicle | | IIIIFIMTEM356h | |
| VIN | J ≓ 1Ē | ¶71月19-11-01-11-11 | |
| Date | 11/1 | 2011 1:22:16 AM Step 16 | Save |
| | | | |

Figure 9

- 17. Use arrows (if needed) to view and read all precautions.
- 18. Check the box confirming the precautions have been read.
- 19. Select Next.



Figure 10

- 20. Read the **Current Part Number** and **Part Number After Reprogramming**. They should be different.
- 21. Select Next.

| | | Venicie . 0/ 02 20 | 4 20 10 | oounity. 0.5.A. | |
|--|---------------------|---|------------------------------|-----------------|--|
| Back Image: Back | Measurement Mode | e Help | 🧀 🔑 🕻 12.1V VI | × • • • • | |
| Re/programming, Configuration | recaution | Program Data | Confirm Vehicle Condition | 9/11 | |
| Select Program Data | | | | | |
| Confirm the detail listed below, and touch "Next" if OK. -In case the screen to select reprog/programming data is NOT displayed, only one data is available for this vehicle. -In case the part number after reprogramming is wrong, touch "Re-select", and confirm the vehicle selection, VIN and reprog/programming data in CONSULT. | | | | | |
| | | \frown | | Step 20 | |
| Part Number After Repro/programming | | 20710-1EJEL | ∕ | These numbers | |
| Current Part Number | | 20710 10 J2A I | | should be | |
| Vahiala | | | | different | |
| Venicie | | 2340/62 | L | | |
| VIN | J II N' | 1. Z. EH KAN15, 12, 4 | Ļ | | |
| System | | | | | |
| Other Information | | ■11 ■ J ■ E. ■ at■ | | Re-select | |
| Expected time to finish re/programming | | 10min | Step | Next | |
| | | | 21 | Ivext | |

Figure 11

NOTE:

- In some cases, more than one new P/N for reprogramming is available.
 - If more than one new P/N is available, the screen in Figure 12 displays.
 - Select and use the reprogramming option that <u>does not</u> have the message "Caution! Use ONLY with NTBXX-XXX".
- If you get this screen and it is <u>blank</u> (no reprogramming listed), it means there is no reprogramming available for this vehicle. Close C-III plus and refer back to ASIST for further diagnosis.

| Back Home Prin | nt Screen Screen Measurement Mode | Recorded Data | Confirm Vehicle | |
|---|--|--|-------------------|------|
| Select Program Data | | | Contaition | 9/11 |
| | | | | |
| Touch and select the rep In case no reprog/progra reprog/programming data | rog/programming data listed be mming data is listed below, confi in CONSULT. | low. rm the vehicle selection, VIN | l and | |
| System | ENGINE | | | |
| Current Part Number | TRANSMISSION r Repr | o/programming | Other Information | |
| XXXXX-XXX XXXXX-XXX | XX XXXXX-XXXXX XX XXXXX XXXX | xxxxxxxxxxx xx xxxxxxxxxx xx xxxxxxxxx | XXXXXX XXXXXXX | |
| | | | 010 | Next |

Figure 12

- 22. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).
- 23. Select Next.

IMPORTANT: Battery voltage must stay between **12.0 and 15.5 Volts** during reprogramming or ECM reprogramming may be interrupted and ECM may be damaged.

| Image: Back Image: Back <thimage: back<="" th=""> <thimage: back<="" th=""></thimage:></thimage:> | (12.8V | |
|---|------------|---------|
| Re/programming, Configuration Select Program Data Confirm Vehicle Condition | Trans Oata | 10/11 |
| Confirm Vehicle Condition | Monitor | battery |
| Operate according to the following procedures. | voltag | e here |
| | | |
| | | |
| 1 Remove the terminal caps of battery, and connect battery charger to battery. | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Agust the battery charger output so that the vehicle battery voltage is between 12.0v and 13.5V. The vehicle battery voltage is shown on the top-right of this screen | A CAR | |
| | | |
| | | |
| 3 | | |
| Confirm the RESULT is OK, touch "Next". | | |
| Step | | |
| | | |
| | Step | Next |
| Result OK | | 1 |
| | | |
| | | |

Figure 13

24. Change the ignition to **<u>ACC mode</u>**.

• Make sure the IGN status judgement changes to **OK**. See Figure 14 & 15.



- **NOTE:** In the next step, the reprogramming process will begin when **Start** is selected.
- 25. Select Start.

| Configuration | Select Progra | amurata | Condition | | 10/11 |
|---|---------------------------------------|--------------------------------------|--|----------------|--------------------------------|
| nfirm the vehicle condition as en, confirm that judgment for a | listed below, se Il items indicate | t the vehicle cor OK, and touch " | ndition correctly. Start''. In case the veh | icle condition | Monitor batter voltage here |
| t of range, reprogramming or pr | ogramming may | stop. | | | U |
| Monitor Item | Value | Unit | Judgment | Condition | |
| BATTERY VOLTAGE | 12.6 | v | ок | | |
| Output speed | 0 | rpm | ок | | |
| ACC status | On | | ок | On | |
| IGN status | Off | | ок | Off | Step |
| | 1 | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Figure 15

26. Wait for both progress bars to complete.



Figure 16

NOTE: If the message shown in Figure 17 appears, there is data stored in the plus VI. Select "**Yes**" to proceed with reprogramming.



Figure 17

27. When the screen in Figure 18 displays, reprogramming is complete.

NOTE: If the screen in Figure 18 does not display (indicating that reprogramming did not complete), refer to ECM recovery on the next page.

28. Select **Next**.

| Back Print Screen Print Screen |
|---|
| Confirm Result |
| Reprogramming or programming is completed. Touch "Next" to continue operation. |
| |
| Step 28 |

Figure 18

29. Follow the on-screen instructions and change the ignition to **ON mode**.



Figure 19

NOTE:

- In the next step (page 15), you will perform DTC erase.
- This operation is required before C-III plus will provide the final reprogramming confirmation report.

ECM Recovery

Do not disconnect the plus VI or shut down C-III plus if reprogramming does not complete.

If reprogramming does <u>not</u> complete and the "!?" icon displays as shown in Figure 20:

- Check battery voltage (12.0 15.5 V).
- Ignition is ON, engine OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select <u>retry</u> and follow the on screen instructions.
- <u>"Retry" may not go through on</u> <u>first attempt and can be</u> <u>selected more than once</u>.

| CONSULTATION W | WN CONTRACTOR | Vahide | Country - Jacon |
|---|--------------------------|--|-----------------|
| Bart Hone Print Govern | Sarean Carban Mada | eccided Odda | 12.5V VI MI |
| Reprograming (| Transfer Data | Corfirm Resul | 13/13 |
| onfirm Result | | | |
| reprogramming of pogarithing is to operation on this ECU. Touch "Reay" to retry reprogramming | or programming. | r Jon can with tebrolit | |
| Part number after Remocioreanempina | | 28482-30000 | |
| the programment of the | | | |
| Part number before Reprog/programming | | 28482-XXXXX | (|
| Part number before Reprog/programming Vehicle | | 28482-XXXXX QASHQAI | (|
| Partnumber Sefire Reprog/pregramming Vehicle | | 28482-0000 QASHQAI SJNFDNJ10U100 | 000 |
| Vehicle System | | 28482-XXXXX QASHQAI SJNFDNJ10U100 BCM | 000 |
| Netrice Vehice Reprog/pregramming Vehicle VIN System | | 25482-XXXXX QASHQAI SUNFONU10U100 BCM 25/07/2011 16 30 | (|
| Nehicle Setime Reprogramming Vehicle VIN System Date Error Code | | 28482-XXXXX QASHQAI SUNFONU1001000 BCM 26/07/20111630 | (|

Figure 20

If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 21:

- Check battery voltage (12.0 15.5 V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, engine OFF.
- Transmission is in Park.
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- Select <u>Home</u>, and restart the reprogram procedure from the beginning.

| | er. VIN | Vehicle : QASHQAI | County : Japan |
|---|---|---|----------------|
| Bark Hone Pri | it Screet | ar renert Recorded Hills | r 💥 🖿 💻 🔀 |
| Re/programing, configition | Transfer Da | Confirm Reput | eve (14 |
| Confirm Result | | | |
| Reprogramming is not co -Print this screen as need with procedure. -Restart CONSULT with o | mpleted property. ded. Confirm CONSULT ver disconnecting VI once, and | rsian, IGWPower switch position, shift position a start the reprogramming again. | rd de |
| Part number after | | 284E2-XXXXX | |
| webroß broßmunung | | | |
| Current part number | | 284E2-3XXXXX | |
| Current part number Vehicle | | 284B2-XXXXX QASHQAI | |
| Current part number Velixite VIIN | | 28482-XXXXX QASHQAI SUNFDNJ19U100000 | |
| Current part number Vehicle VIN System | | 28482-XXXXX QASHQAI SUNFDNJ19U100000 BCM | |
| Current part number Vehicle VIN System Dete | | 28482-XXXXX QASHQAI SUNFDNJ10U100000 BCM 25/07/2011 16:0000 | |
| Current part number Vehicle VIN System Date Information | | 28482-XXXXX QASHQAI SUNFDNU1000000 BCM 29/07/2011 16:30.00 | |



- 30. Follow the on-screen instructions to **Erase DTCs**.
- 31. When the entire reprogramming process is complete, the screen in Figure 22 will display.
- 32. Verify the **before** and **after** part numbers are different.
- 33. Print a copy of this screen (Figure 22) and attach it to the repair order for warranty documentation.
- 34. Select **Confirm**.

| Image: Step Step 31036-XXXXX Part number after Reprog/programming Step 31036-XXXXX Vehicle XXXXXXXXXXXX Vin XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | ver.CSP20.30 | 2014 | | States | |
|---|--|---|--|---------|------------|
| Refprogramming: Erase All DTCs Print Result / Operation Complete All tasks are completed. Confirm LAN access, touch "Print" to print out this page. In case CONSULT can NOT immediately access to LAN or printer, Screen Capture function is available for temporally storage of this page. Couch "Screen Capture", and save it. Screen capture data is in "Cill plus Data Folder" on desk top, and open the folder named "ScreenImages". Part number after Reprog/programming Step 31036-XXXXX Part number before Reprog/programming 33 31036-XXXXX Vehicle XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Back Rome Print Screen Screen | Measurement Mode Recorded Help | 13.7V VI MI | | |
| Print Result / Operation Complete All tasks are completed. Confirm LAN access, touch "Print" to print out this page. In case CONSULT can NOT immediately access to LAN or printer, Screen Capture function is available for temporally storage of this page. Touch "Screen Capture", and save it. Screen capture data is in "Cill plus Data Folder" on desk top, and open the folder named "ScreenImages". Part number after Reprog/programming Batter Step Batt number before Reprog/programming Reprog/programming Reprog/programming Reprog/programming TRANSMISSION Print Print Step Date Xxxxxxxxxxx | Re/programming, Configuration | se All DTCs Print Result / Operation Complete | | 14/14 | |
| All tasks are completed. Confirm LAN access, touch "Print" to print out this page. In case CONSULT can NOT immediately access to LAN or printer, Screen Capture function is available for temporally storage of this page. Touch "Screen Capture", and save it. Screen capture data is in "CIII plus Data Folder" on desk top, and open the folder named "ScreenImages". Part number after Reprog/programming Step 31036-XXXXX Part number before Reprog/programming 31036-XXXXX Vehicle xxxxxxxxxxx Vin xxxxxxxxxxx System TRANSMISSION Date xxxxxxxxxxx | Print Result / Operation Complete | | | | |
| Part number after Reprog/programming Step 33 31036-XXXXX Part number before Reprog/programming 33 31036-XXXXX Vehicle XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | All tasks are completed. Confirm LAN acco In case CONSULT can NOT immediately ac temporally storage of this page. Touch "Sc Data Folder" on desk top, and open the fold | ss, touch "Print" to print out this page. cess to LAN or printer, Screen Capture function reen Capture", and save it. Screen capture da er named "ScreenImages". | on is available for ta is in "CIII plus | | |
| Part number before Reprog/programming 33 31036-XXXXX Vehicle XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Part number after Reprog/programming | ep 31036-XXXXX | | | |
| Vehicle XXXXXXXXXX VIN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Part number before Reprog/programming | 3 31036-XXXXX | | | |
| VIN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Vehicle | ***** | | | |
| System TRANSMISSION Print Stee 33 | VIN | ***** | | | |
| | System | TRANSMISSION | | Print | Step 33 |
| | Date | ***** | | | |
| 1/1 Confirm 34 | | 1 | 1/1 | Confirm | Step 34 |

Figure 22

35. Disconnect the GR8 (battery charger) from the vehicle.

36. Continue to the next page – **Transmission Calibration**.

Transmission Calibration

NOTE: Before continuing, refer to Table A (page 6) to confirm <u>Transmission Calibration</u> is required.

- 1. Make sure the transmission is warm.
 - It may be helpful to take the vehicle for a drive (approximately 10 minutes) to warm the transmission.
- 2. Confirm the transmission fluid level is correct.
 - Follow the procedure for Checking the AT Fluid Level in the Electronic Service Manual (ESM), section TM-Transaxle & Transmission.
- 3. Set the parking brake.
- 4. Chock the wheels.
- 5. Connect the CONSULT PC to the vehicle with the plus VI.
- 6. Start the engine.
- 7. Turn the A/C system OFF.
- 8. Start CONSULT-III plus (C-III plus).

9. When the VI is recognized, select **Diagnosis (One System)**.

| | Back | Home | Screen Capture Mode | Image: Second |
|------------------|----------|-------------------------|--|---|
| | Connec | tion Status - | | Diagnosis Menu |
| | | Serial No. | Status | Diagnosis (One System) |
| VI is recognized | VI | 2300727 | ငား))) Normal Mode/Wireless connection | Diagnosis (All Systems) |
| | мі | - | No connection | |
| | | | | Cherpiogramming, configuration |
| | | Select VI/M | | Immobilizer |
| | Applicat | ion Setting Sub mode | Language Setting | Maintenance |
| | | /DR | | |
| | | | | |

Figure 23

- 10. Navigate C-III plus to **Transmission** > **Work support**.
- 11. Select Transmission adjustment.
- 12. Select Start.

| Ver.CSP31.10 | States |
|---|---------------------|
| Image: Back Image: Back | 14.5V VI MI |
| Diagnosis (One System) System Selection TRANSMISSION | |
| Self Diagnostic Data Monitor | |
| Test Item | |
| Transmission adjustment | |
| Step 11 | |
| 1 | Step /1 12 Start |

Figure 24

NOTE:

- While performing the Transmission Adjustment procedure, a screen like the one in Figure 25 will display.
- Review the call outs in Figure 25 explaining the information on this screen.
- This information will be helpful as you perform the Transmission Adjustment procedure.
- While C-III plus is performing automatic adjustments, you will hear and feel the transmission changing gear position.



NOTE: There are 4 adjustment procedures within the Transmission Adjustment.

First Adjustment Procedure

13. Confirm the following conditions (refer to the C-III plus screen):

- Shift position: D
- Transmission fluid temperature: 75°C (167°F) 90°C (194°F)
- Output speed: 0 rpm
- Engine speed (control): 600 tr/min (rpm) or more
- Brake switch (control): On

14. When the above conditions are met, select **Start**.

• Current status will change from Waiting to **EXECUTING**.

NOTE: If current status indicates EXECUTING, wait (about 3 minutes) for the first adjustment procedure to complete.

15. Wait for the first adjustment procedure to complete (about 3 minutes).

• When complete, current status will change to **Waiting**.

| ver.c.sPoi.iu | | | States |
|---|---------------------------------|---------------------------|------------|
| Back Home Print Screen Capture | Messurement Mode | ERT 14.4V VI MI | - |
| Diagnosis (One System) System Selection | TRANSMISSION | | |
| Work support : Transmission adjustment | | | |
| For the first adjustment procedure, satisfy the following condition as well as the - Engine speed: 600 rpm or more - Shift position: D | he above listed conditions. | | Start |
| | | 2/2 | |
| Current status | | EXECUTING | Step 14 |
| MONITOR | | | |
| Shift position | | D | |
| Transmission fluid temperature | | 72 °C | |
| Output speed | | 0 rpm | |
| Engine speed (control) | | 624 tr/min | |
| Brake switch (control) | | On | |
| | | | |
| Press "Start" P⇔D Engine speed 650 rpm Wtthin 30 sec | D⇔R 1500rpm Within 30 sec | R⇔P Press "End" ₩ ₩ | End |

Figure 26

Second Adjustment Procedure

16. Confirm the following conditions (refer to the C-III plus screen):

- Shift position: D
- Transmission fluid temperature: 75°C (167°F) 90°C (194°F)
- Output speed: 0 rpm
- Engine speed (control): 1,250 1,750 tr/min (rpm)
- Brake switch (control): On

17. When the above conditions are met:

- Current status will change from Waiting to **EXECUTING.**
- **Keep the rpm about 1,500** so that when the rpm drops, caused by transmission shifts, it will not interrupt the procedure.
- If the procedure is interrupted, follow the on screen instructions (which includes turning the ignition OFF and back ON) and then start from the beginning (step 13).

NOTE: Keeping the rpm in the correct range is a bit challenging, and may take a few tries (practice) to get it right.

18. Wait for the second adjustment procedure to complete.

• When complete, current status will change to **Waiting**.

| Ver.CSP31.10 | | - | States |
|---|----------------------|--------------------------------------|--------|
| Back Bin Print Screen Capture Mode | ent Recorded Data | 14.3V VI MI | - |
| Diagnosis (One System Selection TR/ | ANSMISSION | | |
| Work support : Transmission adjustment | | | |
| For the second adjustment procedure, satisfy the following condition as well as the above I - Engine speed: 1,250 rpm - 1,750 rpm - Shift position: D To next page. | isted conditions. | | Start |
| | | 2/3 | |
| Current status | | EXECUTING | |
| MONITOR | | | |
| Shift position | D | | |
| Transmission fluid temperature | 72 | °C | |
| Output speed | 0 | rpm | |
| Engine speed (control) | 1591 | tr/min | |
| Brake switch (control) | On | | |
| | | | |
| Engine speed 650 rpm | D⇔R wtthin 30 sec | R¢P ^{Press} "End" ➡ ➡ | End |

Figure 26

Third Adjustment Procedure

19. Confirm the following conditions (refer to the C-III plus screen):

- Shift position: R
- Transmission fluid temperature: 75°C (167°F) 90°C (194°F)
- Output speed: 0 rpm
- Engine speed (control): 600 tr/min (rpm) or more
- Brake switch (control): On

20. When the above conditions are met:

- Current status will change from Waiting to **EXECUTING.**
- 21. Wait for the third adjustment procedure to complete.
 - When complete, current status will change to **Waiting**.

| Back Home Ver.CSP31.10 | ent Recorded Help | 14.4V VI MI | States |
|--|--|---------------------------|--------|
| Diagnosis (One System) System Selection TR. | ANSMISSION | | |
| Work support : Transmission adjustment | | | |
| For the third adjustment procedure, satisfy the following condition as well as the above I - Engine speed: 600 rpm or more - Shift position: R To next page. | isted conditions. | | Start |
| | | 2/3 | |
| Current status | | EXECUTING | |
| MONITOR | | | |
| Shift position | R | | |
| Transmission fluid temperature | 67 | °C | |
| Output speed | 0 | rpm | |
| Engine speed (control) | 627 | tr/min | |
| Brake switch (control) | On | | |
| Press Engine "Start" P¢D speed 1500rpm \$50 rpm | Engine speed D≎R 1500rpm ₩thin 30 sec | R⇔P Press "End" ➡ ➡ | End |

Figure 27

Fourth Adjustment Procedure

22. Confirm the following conditions (refer to the C-III plus screen):

- Shift position: R
- Transmission fluid temperature: 75°C (167°F) 90°C (194°F)
- Output speed: 0 rpm
- Engine speed (control): 1,250 1,750 tr/min (rpm)
- Brake switch (control): On

23. When the above conditions are met:

- Current status will change from Waiting to **EXECUTING.**
- **Keep the rpm about 1,500** so that when the rpm drops, caused by transmission shifts, it will not interrupt the procedure.
- If the procedure is interrupted, follow the on screen instructions and start from the beginning (step 13).

24. Wait for the fourth adjustment procedure to complete.

• When complete the screen in Figure 29 (next page) will display.

| ver.CSP31.10 | | | States | | | |
|---|--|---------------------------|--------|--|--|--|
| Back Home Print Screen Capture Moc | ment Recorded Data | 14.3V VI MI | | | | |
| Diagnosis (One System) System Selection TRANSMISSION | | | | | | |
| Work support : Transmission adjustment | | | | | | |
| For the fourth adjustment procedure, satisfy the following condition as well as the above - Engine speed: 1,250 rpm - 1,750 rpm - Shift position: R To next page. | listed conditions. | | Start | | | |
| | | 2/3 | | | | |
| Current status | | EXECUTING | | | | |
| MONITOR | | | | | | |
| Shift position | R | | | | | |
| Transmission fluid temperature | 74 | °C | | | | |
| Output speed | 0 | rpm | | | | |
| Engine speed (control) | 1498 | tr/min | | | | |
| Brake switch (control) | On | | | | | |
| | | | | | | |
| Press "Start" P¢D Engine speed 650 rpm Within 30 sec | D¢R Engine speed 1500rpm Within 30 sec | R⇔P Press "End" ➡ ➡ | End | | | |

Figure 28

- 25. When the Transmission Adjustment has completed (see Figure 29), shift the transmission to Park.
- 26. Turn the ignition OFF.
- 27. Select End.

| Ver.CSP31.10 | · · · · · · · · · · · · · · · · · · · | <u> </u> | States | | | |
|--|--|----------------------|------------|--|--|--|
| Back Home Print Screen | creen ppture Measurement Mode Recorded Data PHelp | ▲ 14.5V VI MI | - | | | |
| Diagnosis (One System) System Se | election TRANSMISSION | | | | | |
| Work support : Transmission adjustment | | | | | | |
| All the adjustment procedures have been completed. Set the selector lever in P position and turn the ignition switch OFF. | | | | | | |
| | | | | | | |
| Current status | | Completed | | | | |
| | | | 1 | | | |
| | | | | | | |
| | | | Step 27 | | | |
| | | | | | | |
| Press "Start" P⇔D speed 550 rpm Wrthin 30 | Engine speed D ¢ R 1500rpm wrthin 30 sec | R ¢ P Press "End" | End | | | |
| Figure 29 | | | | | | |

28. Disconnect the Consult III from the vehicle, release the vehicle and submit claim using the claims information below.

CLAIMS INFORMATION

Submit claim using the following claims coding:

Work Order Line Type: "CM" Campaign

Campaign: PC507

| Claim Type: | СМ | | |
|---|-----------------|----------------|--|
| PNC: | PC507 | | |
| Symptom: | ZZ | | |
| Diagnosis: | 99 | | |
| Description: | Op Codes | Flat Rate Time | |
| Reprogram Transmission Control Module | PC5070 | 0.6 Hr | |
| Reprogram Transmission Control Module and Perform Adjustments | PC5071 | 1.1 Hrs | |