

AT16-004b

Classification:

Reference:

November 8, 2016

Date:

2016-2017 TITAN XD; TRANSMISSION SHIFT QUALITY ISSUES

NTB16-068b

This bulletin has been amended. Changes have been made throughout. Please discard previous versions of this bulletin.

APPLIED VEHICLES:	2016-2017 Titan XD (A61)
APPLIED VIN & DATE:	2016: All
	2017:
	4WD - Built before 1N6BA1F(**)HN 509376 // Sep 30, 2016 2WD - Built before 1N6BA1F(**)HN 509429 // Oct 1, 2016
APPLIED ENGINE:	Cummins 5.0L V8 Diesel
APPLIED TRANSMISSION:	6AT: RE6R01A

IF YOU CONFIRM

Any of the following issues:

- When cold (transmission fluid below 140°F [60°C]), there is an engine RPM rise (200 to 500 rpm flare) during the 1-2 shift, 2-3 shift, and/or the 3-4 shift.
- While slowing to a stop, a 2-1 down shift bump is felt just before stopping. •
- Harsh up-shifts.
- Shift shock when lifting foot from accelerator. •
- Gear hunting while driving in city traffic. •

ACTION

- 1. Compare the vehicle's current TCM part number to the part number listed in Table A on page 7.
- 2. If the current TCM part number matches a part number listed in **Table A**, follow the instructions in Table A.

IMPORTANT: The purpose of ACTION (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the entire SERVICE PROCEDURE as it contains information that is essential to successfully completing this repair.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

SERVICE PROCEDURE

Reprogram the TCM

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, <u>the TCM may be damaged</u>.
- 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 the TCM may be damaged.

- 1. Connect the plus VI to the vehicle and open/start CONSULT-III plus.
- 2 Confirm the ignition is ON, with engine OFF.
- 3. Confirm the plus VI is recognized.
 - The Serial No. will display when the plus VI is recognized.
- 4. Select Re/programming, Configuration.



Figure 1A

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



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

	Back Home Re/programm Configuration	Print Screen Scree Captur	ne Measurement Mode	vehicle Selection	12.2V VI MI Vehicle Confirmation	
	Automatic S	Selection(VIN)	Manual Select	ion(Vehicle Name)	\mathbf{r}	
Step	Vehicle Name :				Model Year :	Sales Channel
0	*MURANO Camp:P8201	JUKE	QUEST			NISSAN
	350Z	LEAF	ROGUE		Step	INFINITI
	370Z	MAXIMA	SENTRA		8	
	370Z Convertible	MU				
	ALTIMA		npie			
	ALTIMA Hybrid	NISSAN GT-R	VERSA Hatchback			
	ARMADA	NV	VERSA Sedan			
	CUBE	PATHFINDER	XTERRA			CLEAR
	FRONTIER	PATHFINDER ARMADA	X-TRAIL			Calaat
					0/0	Select
	1		Fig			

Figure 3A

- 9. Make sure VIN or Chassis # matches the vehicle VIN.
- 10. If the correct VIN is displayed, select **Confirm**.

	Back Image Image <thi< th=""><th>Image: Contract Mode Image: Contract Mode <td< th=""><th></th></td<></th></thi<>	Image: Contract Mode Image: Contract Mode <td< th=""><th></th></td<>	
Step 9 Verify here	VIN or Chassis #	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Model Year	ROD	
		1/1	
		Step 10	Change Confirm

Figure 4A

11. Select Confirm.

Back Recorded Data Recorded Data	
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) JN TET 1 R PH CM/\$1 (00 14 .	
	-
Step 11	Confirm

Figure 5A

12. Select **TRANSMISSION** on page 2.

		eren and a second s	1			
Back Rome Print Screen Capture	Measurement Mode Recorded Bata	11.8V VI MI				
Configuration	Input VIN System Selection	Operation Selection 5/6				
System Selection						
Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong.						
ENGINE	METER/M&A	HVAC				
MULTI AV	MULTI AV BCM TRANSMISSION					
ABS	ABS CAN GATEWAY					
HEAD LAMP LEVELIZER AIR BAG						
		1/1				
	Figure 6A					

13. Select Reprogramming.

	Back Image: Back
	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 13	Reprogramming
	Replacement 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 7A

- 14. When you get to the screen shown in Figure 8A, 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		510011	2014				States
Back Home	Print Screen Capture	Measurement Mode	Recorded Data	C Help	11.9V	VI	X MI	-
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 operatio ompletely finished.	e current part n by selecting	number as suitable op	listed below to eration log. Ope	CONSULT ration log	is eras	sed	
File Label			xxx	****	x			
Operation			RE	PROGRAMMIN	3			-
System	14a: <u>Current</u> I	CM P/N		RANSMISSION				
Part Number				31036 -XXXXX				
Vehicle		*****						
VIN			ххх		xx			-
Date			XXX	****	кхх			Save
		F	igure 8	3A				

- 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 <u>match</u>, follow the instructions in Table A.
 - If there is <u>not a match</u>, this bulletin <u>does not apply</u>. Refer to ASIST for further diagnosis.

Current TCM Part Number: 31036 -	Instructions
EZ02B, EZ02D, EZ03B, EZ03D	 Complete the Reprogramming. Perform Transmission Calibration.
EZ04B, EZ04D	 Complete the Reprogramming only. No other producers in this bulletin are required.

15. Select Save.

CONSOLT-III plus Ver.V12.12.00 VIN.	SINTETTAPTCIVISTUUT4 VEHICLE. INFINITTIVISSITETTST2012	Country . O.S.A.
Back Rome Print Screen	Measurement Mode Recorded Data	-
Re/programming, Opera	tion Selection Save ECU Data	717
Save ECU Data		
Touch "Save" to save operation log and th Operation log helps to restart next operatio after operation has completely finished.	e current part number as listed below to CONSULT. n by selecting suitable operation log. Operation log is erased	
File Label	J#1871#241.1₩21#201#	
Operation	r epredor/amina	
System	engne I	
Part Number	ﷺ 7戰)-₩/∰/#	
Vehicle		
VIN	Jह11=11=11=1=01=	1
Date	11/1/2011 1:22:16 AM Step	Save
	15	

Figure 9A

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



Figure 10A

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

	UN TAZALITAANNOU 1204 VEHICLE . 3702 234 2010	Country . O.S.A.
Back Rome Print Screen	Messrement Mode Data 00 Help 12.1V V	
Re/programming, Configuration	recaution Select Program Data Confirm V Condit	ion 9/11
Select Program Data		
Confirm the detail listed below, and touch -In case the screen to select reprog/prograr vehicle. -In case the part number after reprogrammin selection, VIN and reprog/programming data	'Next'' if OK. ming data is NOT displayed, only one data is available ng is wrong, touch ''Re-select'', and confirm the vehicle in CONSULT.	e for this
	\sim	Step 19
Part Number After Repro/programming		These numbers
		different
Vehicle	234, 0702	unierent
VIN	Jan 192 Zae Hak Ann 1581 (2014	
System	de Nus inde	
Other Information	■ B11€J #E. R at∎	Re-select
Expected time to finish re/programming	^{10min} Ste	p Next
	20	

Figure 11A

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 12A 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 Home Configuration	Print Screen Screen Capture Measurement	n Select Program	Data Confirm Vehicle Condition	9/11
Touch and select the r in case no reprog/prog reprog/programming da	reprog/programming data lis ramming data is listed below ata in CONSULT.	ited below. v, confirm the vehicle selec	tion, VIN and	
System Current Part Numb	ENGINE er TRANSMISSION	r Repro/programming	Other Information	
XXXXX-XX XXXXX-XX	XXX XXXXX-XX XXX XXXXXX	XXXX XXXXXX XXXXX XXXXXX XXXXX	XXXXXXXXXXXX XXXXXXXXXXXXX	
				Next
			010	

Figure 12A

- 21. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).
- 22. 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:>	🙃 🎤 🗙 🖿 📃 🔀	
Re/programming, Configuration Select Program Data Confirm Vehicle Condition	Trans Data 10/11	
Confirm Vehicle Condition	Monitor battery	
Operate according to the following procedures.	voltage here	
Remove the terminal caps of battery, and connect battery charger to battery.		
2		
Adjust the battery charger output so that the vehicle battery voltage is between 12.0V and	Harris Contraction	
13.5V. The vehicle battery voltage is shown on the top-right of this screen		
3 Confirm the PESLII T is OK touch "Next"		
21		
	Stop 1	
	Next	Ш
Result OK		

Figure 13A

23. Change the ignition to **ACC mode**.

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

And and the other designs of t		Ver.CSP41.10		and the strengthered and			States
e Back	Home	Print Screen	Screen Capture	Surement Mode	Help	12.5V VI MI	
\$ 0	Re/programmi Configuratio	ing, 🚺	Select Progra	am Data	onfirm Vehicle Condition	Transfer Data	10/11
Confirm	Vehicle Cond	lition					_
Confin Then,	m the vehicle confirm that ju	condition as udgment for al	listed below, se l items indicate	et the vehicle con OK, and touch "	ndition correctly. Start". In case the ve	hicle condition is	
outofi	range, reprogi	ramming or pro	ogramming may	v stop.			
			42.5	Unit	Judgment	Condition	1
	BATTERT VO	LIAGE	12.5	v	UK		-
	Output sp	eed	0	rpm	ОК		
	ACC state	us	On		ок	On	
	IGN statu	IS	On		NG	Off	
					1		
		"N	G" will di	splay unti	I the		
		ignitio	n is chan	ged to AC	C mode		Start
						1/1	

Figure 14A

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

24. Select Start.

Back Re/programming, Configuration	Screen Capture Select Progra	wrement Recorded Mode Data	Heip ER	12.7V VI MI	
nfirm Vehicle Condition confirm the vehicle condition as hen, confirm that judgment for a ut of range, reprogramming or p	listed below, se all items indicate rogramming may	t the vehicle cor OK, and touch " stop.	ndition correctly. Start". In case the vehi	cle condition	Monitor battery voltage here
Monitor Item	Value	Unit	Judgment	Condition	
BATTERY VOLTAGE Output speed	0	V rpm	ок		_
ACC status	On Off		ок	On Off	Step 24
			1	/1	Start

Figure 15A

25. Wait for both progress bars to complete.



Figure 16A

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

warning						
CAUTION!!						
There are still date in M. Depression function connet be even used						
There are still data in VI. Reprogramming function cannot be executed until the data are erased. Do you want to erase data in VI?						
If you do not want to erase the data, please retry Reprogramming function after uploading VI data with [DataControl] function in [SubMode].						
No						
Figure 17A						

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

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

- 27. Disconnect the GR8 (battery charger) from the vehicle.
- 28. Select Next.

Image: Back Imag	12.8V VI MI
Confirm Result	
Reprogramming or programming is completed. Touch "Next" to continue operation.	
	Step 28

Figure 18A

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



Figure 19A

NOTE:

- In the next step (page 16), 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 20A:

- 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>.

	VN	Vaticle	Country : Japan
Back Home Print Screen	Scheen Mode	Securided Help	12.7V VI MI
responsering.	Transfer Data	Confirm Resul	1313
Confirm Result			
Reprogramming or progamming is no operation on this ECU. Touch "Reny" to retry reprogramming	t completed propertly, b or programming.	ut you can retry reprogig	rogramming
Part number after Reprog/programming		28482-XXXXX	K
Part number before		28482-XXXX	K
Reprog/programming			
Reprog/programming Vehicle		QASHQAI	
Reprog/programming Vehicle VIN	-	QASHQAI SJNFDNJ10U100	1000
Reprog/programming Vehicle VIN System		QASHQAI SJNFDNJ10U100 BCM	000
Reprog/programming Vehicle VIN System Date		QASHQAI SJNFDNJ10U100 BCM 25/07/2011 16:30	200 Retry
Reprog/programming Vehicle VIIN System Dete Error Code		QASHQAI SJINFONU10U100 BCM 25/07/20111630	200 Retry

Figure 20A

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

- 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.

	VIN: Vehicle (QASHQA)	County : Japan
Bark Hone Print Screer	Recent Mode Particular Holo	,
Configition	Transfer Ente	9/9
onfirm Result		
Reprogramming is not completed proper -Print this screen as needed. Confirm Co with procedure. -Restart CONSULT with disconnecting V	rly ONSULT version, IGN/Power switch position, shift position /I once, and start the reprogramming again.	ard etc
Part number after	28482-XXXXX	
webroß/broßimmung		
Current part number	28482-30000	
Current part number	28482-XXXXX QASHQAI	
Current part number Verticle	284E2-3XXXX QASHQAI SJNFDNJ10U100000	
Current part number Vehicle VIN System	284E2-33XXX QASHQAI SJNFDNJ10U100000 BCM	
Vehicle VIN System Date	28482-33XXXX QASHQAI SUNFDHJ19U100000 BCM 25/07/2911116/30/00	
Vehicle Vili System Dete Information	284E2-33XXXX QASHQAI SUNFDNJ10U100000 BCM 29/07/2011 16:30:00	

Figure 21A

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

Ver.CSP20.30		States					
Back Home Print Screen Capture	Measurement Mode	🗩 🎢 X 🖿 🔲 🏹					
Re/programming, Configuration	se All DTCs Print Result / Operation Complete	14/14					
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	ep 31036-xxxxx						
Part number before Reprog/programming	2 31036-XXXXX						
Vehicle	*****						
VIN	******						
System	TRANSMISSION	Print Step 33					
Date	******						
	1/	Confirm Step 34					

Figure 22A

Continue to the next page.

Transmission Calibration

NOTE: Before continuing, refer to page 7 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 Print	Screen Capture Mode	Sorded Help 11.8V VI MI	
VI is recognized	VI	Serial No.	Status	Diagnosis Menu Diagnosis (One System) Image: Diagnosis (All Systems)	Step 9
	Applicat	Select VI/MI tion Setting Sub mode	Language Setting	Immobilizer Maintenance	
			,		

Figure 1B

- 10. Navigate C-III plus to **Transmission** > **Work support** (see Figure 2B).
- 11. Select Transmission adjustment.
- 12. Select Start.

	States
Image: Back Image: Back	× • • • • •
Diagnosis (One System) System Selection TRANSMISSION	
Self Diagnostic Data Monitor	
Test Item	
Transmission adjustment	
Step	
11	
Sten	
1/1 12	Start

Figure 2B

- While performing the Transmission Adjustment procedure, a screen like the one in Figure 3B will display.
- Review the call outs in Figure 3B 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.CSP31.10				-		States
Back Back Print Screen	breen pture	Recorded Data		14.4V V	i X	-
Diagnosis (One System) System Se	election TRANS	MISSION				
Work support : Transmission adjustmen	t					
For the first adjustment procedure, satisfy the following condition as well - Engine speed: 600 rpm or more - Shift position: D	as the above liste	ed conditions.				Start
			:	2/2		
Current status				E)	ECUTING	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 Speed Figine Speed 650 rpm Within 30 s		D⇔R Speed 1500rpm Within	30 sec	R⇔P ➡	Press "End"	End

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 Mea	Mode Recorded Data	14.3V VI MI	
Diagnosis (One System Selection	TRANSMISSION		
Work support : Transmission adjustment			
For the second adjustment procedure, satisfy the following condition as well as the abo - Engine speed: 1,250 rpm - 1,750 rpm - Shift position: D To next page.	ove listed 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		
	,		
Press "Start" P¢D Engine speed 650 rpm	D¢R Speed 1500rpm Within 30 sec	R⇔P Press "End" ➡ ➡	End

Figure 5B

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 Image: Sector of the se	ent Recorded Help ERT	14.4V VI MI	States
For the third adjustment procedure, satisfy the following condition as well as the above li - Engine speed: 600 rpm or more - Shift position: R To next page.	isted conditions.		Start
Current status		2 / 3	
MONITOR Shift position	P		
Transmission fluid temperature	67	°C	
Output speed	0	rpm	
Engine speed (control)	627	tr/min	
Brake switch (control)	On		
Press Start" P⇔D Engine speed S50 rpm Vittin 30 sec	Engine speed 1500rpm ₩tthin 30 sec	R⇔P Press "End" ♥ ♥	End

Figure 6B

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 8B (next page) will display.

Ver.CSP31.10	States
Back Print Screen Capture Measured	Recorded Data
Diagnosis (One System) System Selection	TRANSMISSION
Work support : Transmission adjustment	
For the fourth adjustment procedure, satisfy the following condition as well as the abov - Engine speed: 1,250 rpm - 1,750 rpm - Shift position: R To next page.	e 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 Engine Speed 1500rpm	D⇔R 1500rpm R⇔P Press Wrbin 30 sec End

Figure 7B

- 25. When the Transmission Adjustment has completed (see Figure 8B), shift the transmission to Park.
- 26. Turn the ignition OFF.
- 27. Select End.

Ver.CSP31.10	····		Sta	tes
Back Home Print Screen	Creen Mode Recorded Data	Image: Bell Image: Bell	VI MI	
Diagnosis (One System) System Se	election TRANSMISSION			
Work support : Transmission adjustmer	ıt			
All the adjustment procedures have b Set the selector lever in P position and	een completed. I turn the ignition switch OFF.			
Current status			Completed	
Press "Start" P⇔D Engine speed 650 rpm ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ 30	Eng spe D¢R 150	ine ed Orpm R ¢	P Press "End"	Step 27 End
,	Figure 8	B		

The information on page 26 is provided as Service Information for the customer and is not part of the Service Procedure in this bulletin.



CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram Transmission Control Module	(1)	JX46AA	ZE	32	0.6

OR

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram Transmission Control Module and Perform Adjustment	(1)	JX47AA	ZE	32	1.1

(1) Refer to the electronic parts catalog (FAST) and use the TCM assembly part number (31036 - XXXXX) as the Primary Failed Part (PFP).

IMPORTANT INFORMATION FOR THE CUSTOMER

- Completing the transmission adjustment procedure has erased <u>ALL</u> of the TCM "adaptive learning values" that have accumulated over time. The transmission will shift differently than it did before this procedure was performed (especially for vehicles that have been driven over 1,000 miles).
- The Aisin 6-speed A/T has the ability to enter into a learning mode once the vehicle meets the following criteria:
 - The vehicle will need to be driven above 55 mph for a minimum of 5 miles to bring the exhaust and after treatment systems up to normal operating temperatures.
 - Make sure there are no warnings in the Meter pertaining to reduced power mode such as low fuel or low DEF.
 - Confirm the vehicle is not in Tow Mode. If in Tow Mode, the vehicle will be prevented from entering into the learn mode.
- Learning takes place with upshifts at steady accelerator positions from 1st gear through 5th gear continuously and repeatedly once the above criteria have been met. Improvements occur during repeated upshifts.

.....