



ERVICE CAMPAIGN BULLETIN Reference:

NTB13-020

Date: April 4, 2013

VOLUNTARY SERVICE CAMPAIGN 2013 ALTIMA SEDAN WITH V6 ENGINE; AIR FUEL SENSOR

PC218 CAMPAIGN ID #: APPLIED VEHICLES: 2013 Altima Sedan (L33) VQ35DE (V6 engine) APPLIED ENGINE:

Check Service Comm to confirm campaign eligibility

INTRODUCTION

On certain 2013 Altima sedan vehicles equipped with the V6 engine, an Engine Control Module (ECM) improper calibration may cause damage to the Air Fuel (A/F) sensors. To remedy this potential condition, Nissan is conducting this Voluntary Service Campaign to reprogram the ECM and, if needed, replace the A/F sensors. This service will be performed at no charge for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number PC218 to this campaign. This number must appear on all communications and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

Dealers are to correct each vehicle falling within the range of this campaign that enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory.

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

Check Air Fuel (A/F) Sensor Adjustment Values

- 1. Connect the CONSULT PC to the vehicle.
- 2. Turn the ignition ON.
- 3. Start C-III plus.
- 4. Wait for the plus VI to be recognized.
 - Serial number will display when the plus VI is recognized.
- 5. Select Diagnosis (One System).

	CONSULT-III plus Ver.V12.12.0	0 VIN:-	Vehicle : -	Country : U.S.A.	
	Back Home Print Scree	n Screen Mode	lecorded Data	VI MI	
	Connection Status		Diagnosis Menu]	Ston
	Serial No.	Status	Diagnosis (On	e System)	Step 5
Step 4: VI is recognized	VI 2300727	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		Sustams)	
		\bigcirc		Systems)	
		No connection	Re/programmi	ng, Configuration	
	Select VI/MI		Immobilizer		
	Application Setting	-			
	Sub mode	ABC Language Setting	Maintenance		
	VDR]		

Figure A1

6. Select ENGINE.

CONSULT-III plus Ver.23.13 Ver.CSP17.1	VIN:-		Vehicle : -	Country : U.S.A.	
Back Home Print Screen Autering Mode Metoring Help 15.9V VI MI Diagnosis (One System) System Selection					
NISSAN/INFINITI		Rena	ault	X-Badge	
Group	Step	All system	S	•	
ENGINE			BAC	UID	
ABS	MULTI AV		SUB METER	AUTO SLIDE DOOR	
METER/M&A	EHS/PKB		CONVERTIBLE RO	OF PRECRASH SEATBELT	
ВСМ	MOTOR CONTROL		HEAD LAMP LEVEL	ZER AUTO DRIVE POS.	
AIR BAG	EPS		e-4WD	ALL MODE AWD/4WD	
ICC/ADAS	IPDM E/R		LASER/RADAR	DIFF LOCK	
HVAC	AIR PRESSURE MONITOR		INTELLIGENT KE	Y 4WAS(MAIN)/RAS/HICAS	
1/3					

Figure A2

7. Select Data Monitor.

CONSULT-III plus Ver.23.13 VIN:-	Vehicle : -	Country : U.S.A.
Back Rome Print Screen Capture	Messurement Mode Data Contraction State	M 🖿 🔜 🔀
Diagnosis (One System) System Selection	ENGINE	
Self Diagnostic Result	Work support	tification
- No DTC is detected. Further testing may be wired		
Step 7		
		Print
		Save
	1/1	ERASE

Figure A3

- 8. Select A/F ADJ-B1 and A/F ADJ-B2.
 - Use arrows to scroll and find the above items.
- 9. Select Start.



10. Check values for A/F ADJ-B1 and A/F ADJ-B2.

- Value for each sensor should be between 0.300 and 0.300.
- If a sensor (one or both) is out of the above specified range, make a note of it.
- Sensor(s) that are out of the specified value will be replaced later in this procedure.

NOTE: Most vehicles serviced under this campaign will <u>not</u> require new sensors. It is expected that only 5% of serviced vehicles will need sensor replacement.

CONSULT-III plus Ver.	.23.13 .CSP17.10	Vehicle : -		Country : U.S.A.
Back Home P	Print Screen Capture Mode	Recorded Help	← ↓ × 15.9V VI MI	
Data Monitor		Line Graph	Sin	gle List 🛛 🔻
ENGINE	A/F ADJ-B1		-0.058	
ENGINE	A/F ADJ-B2		-0.202	
E	Values should - 0.300 and 0.	r Info.		Record

Figure A5

DO NOT replace A/F sensors at this time.

If needed, replace A/F sensors <u>after</u> ECM reprogramming.

11. Go to ECM Reprogramming on the next page.

ECM Reprogramming

- Most instructions for reprogramming with CONSULT-III plus (C-III plus) are displayed on the CONSULT PC screen.
- If you are not familiar with the reprogramming procedure, **click here**. This will link you to the "CONSULT- III plus (C-III plus) Reprogramming" general procedure.

Preparation for Reprogramming

- 1. Take the vehicle for a 10 minute drive in order to meet the following Idle Air Volume Learn (IAVL) conditions:
 - Engine coolant temperature: 70 -100°C (158 - 212°F)
 - Battery voltage: More than 12.9V (At idle)
 - Transmission: Warmed up



Figure 1

NOTE:

- After ECM reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn (IAVL), and Accelerator Closed Position.
- The above conditions are required for the IAVL to complete.

CAUTION:

- Connect a battery charger to the vehicle battery. The vehicle battery voltage must stay between <u>12.0V and 15.5V</u> during reprogramming, <u>or the ECM may be damaged</u>.
- Be sure to turn OFF all vehicle electrical loads.
 If a vehicle electrical load remains ON, <u>the ECM 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 ECM may be damaged</u>.
- Turn off all external Bluetooth® devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI. If Bluetooth® signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and the ECM may be damaged.

- 2. Return to the C-III plus home screen.
- 3. Confirm the VI is recognized.
 - Serial number will display when the VI is recognized.
- 4. Select Re/programming, Configuration.

	CONSULT-III plus	Ver.V12.12.00 VIN:- Print Screen Screen Capture Mode	Vehicle : - t Recorded Help 11.8	Country : U.S.A.	
Step 3: VI is recognized	Connection Status Serial No. Status VI 2300727 Do))) Normal Mode/Wireless connection MI		ss Diagnosis Menu Diagnosis (Ss Diagnosis (Ss Re/program	Diagnosis Menu Diagnosis (One System) Image: Diagnosis (All Systems) Image: Diagnosis (All Systems) Image: Diagnosis (All Systems) Image: Diagnosis (All Systems)	
	Application Set	VI/MI ting	Immobilizer	r ce	
	VDR				

- Figure 2
- 5. Follow the C-III plus on-screen instructions and navigate to the screen shown in Figure 3 on the next page.

- 6. When you get to the screen shown in Figure 3, confirm this bulletin applies as follows:
 - A. Find the ECM **Part Number** and write it on the repair order.

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

CONSULT-III plus Ver VIN	Vehicle :	Country : U.S.A.				
Image: Back Image: Back	Messurement Mode	🚗 🏋 🗙 🖿 🔛 🔀				
Re/programming, Configuration	tion Selection Save ECU Data	717				
Save ECU Data						
Touch "Save" to save operation log and the current part number as listed below to CONSULT. Operation log helps to restart next operation by selecting suitable operation log. Operation log is erased after operation has completely finished.						
File Label	*******					
Operation	REPROGRAMMING					
System	ENGINE					
Part Number	23710					
Vehicle	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
VIN	******					
Date	11/1/201× 1:22:16 AM	Save				

Figure 3

- B. Compare the P/N you wrote down to the numbers in the **Current ECM Part Number** column in **Table A** below.
 - If there is a <u>match</u>, this <u>campaign applies</u>. Continue with the reprogramming procedure.
 - If there is <u>not a match</u>, reprogramming <u>does not apply</u> or it has already been done. Check Service Comm to confirm campaign eligibility.

Table A	
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Model	Current <u>ECM</u> Part Number: 23710 -	
2013 Altima VQ35	3NT1A, 3NT2A	

7. Follow the on-screen instructions to navigate C-III plus and reprogram the ECM.

NOTE:

- In some cases, more than one new P/N for reprogramming is available.
 - > In this case, the screen in Figure 4 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.

CONSULT-III plus Ver.	VIN:	Vehicle :	c	Country : U.S.A.			
Back Borne Print	t Screen Capture Mode	Recorded Help	11.8V VI MI	🔀			
Re/programming, Configuration	Precaution	Select Program Data	Confirm Vehicle Condition	9/11			
Select Program Data							
Touch and select the rep In case no reprog/program reprog/programming data	Touch and select the reprog/programming data listed below. In case no reprog/programming data is listed below, confirm the vehicle selection, VIN and reprog/programming data in CONSULT.						
System	ENGINE						
Current Part Number	Part Number After Rep	oro/programming Oth	er Information				
xxxxxxxxxxxxxxx	XXXXXXX-XXXXXXX	xxxxxxxxxxx	000000000000000000000000000000000000000				
XXXXXX-XXXXXX	XXXXXX-XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	000000000000000000000000000000000000000				
				Next			
		0					

Figure 4

8. When the screen in Figure 5 displays, reprogramming is complete.

NOTE: If the screen in Figure 5 does <u>not</u> display (reprogramming does <u>not</u> complete), refer to the information on the next page.

- 9. Disconnect the battery charger from the vehicle.
- 10. Select Next.



Figure 5

NOTE:

- In the next steps on page 13, you will perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.
- These operations are required before C-III plus will provide the final reprogramming confirmation report.

ECM recovery:

Do not disconnect 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 6:

- 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</u> on first attempt and can be selected more than once

CONSULT-II plus Ver	W94	Ushide		County - Jacon
Back Fore Print Screen	Alter Massert	tecordeo Data	12.3V VI MI	
sonigiation	Transfer Data	Corlim Resul		1313
Confirm Result				
Reprogramming or programming is not operation on this ECU Touch "Reny" to retry reprogramming	completed propertly, b or programming.	ut you can retry reprogé	programming	R
Part number after Reprociprogramming		284B2-XXXX	x	
Part number before Reprog/programming		25482-XXXXX		
Vehicle		QASHQAI		
VIN		SJNFDNJ10U10	2000	
System		BCM		
Date		26/07/2011 16:3	0.00	Retry
Date Error Code		25/07/2011 16 3	000	Retry

Figure 6

If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 7:

- 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

CONSULTINE W	VIN:	Vehicle (CLASHQA)	County : Japan
Ball Hone Print Screer	Scienter Heast	Tecaribed Help Carv	📮 💥 🖿 🛄 🔀
Relprograming	Transfer Data	Corfirm Result	99
onfirm Result			
Reprogramming is not completed pro Print this screen as needed. Confirm with precedure. Restain CONSULT with disconnection	party. In CONSULT version, IG Ig VI once, and start the	N/Power switch positien, shift positi reprogramming again.	on and etc
Part number after Recree/programming		284E2-XXXXX	
Current part number		28482-XXXXX	
Current part number		284B2-XXXXX QASHQAI	
Current part number Noticle VIN		28482-XXXXX QASHQAI SJNFDNJ190100000	
Vehicle VIN System		28482-XXXXX QASHQAI S.INFDNU10U100000 BCM	
Vehicle VIN System Dets		28482-XXXXX QASHQAI SUNFDNJ10U100000 BCM 29107/2911116:3000	
Vehicle Vili System Dets Information		28482-XXXXX QASHQAI SUNFDNU100100000 BCM 29/07/2011 16:30.00	

Figure 7

11. Follow the on-screen instructions to perform the following:

- Throttle Valve Closed Position
- Idle Air Volume Learn (IAVL)

NOTE:

- Listed below are the conditions required for IAVL to complete.
- $\circ~$ If IAVL does not complete within a few minutes, a condition may be out of range.
 - Engine coolant temperature: 70 -100° C (158 212°F)
 - Battery voltage: More than 12.9V (At idle)
 - Selector lever: P or N
 - > Electric load switch: OFF (Air conditioner, headlamp, rear window defogger)
 - > Steering wheel: Neutral (Straight-ahead position)
 - Vehicle speed: Stopped
 - > Transmission: Warmed up (ATF TEMP SE less than 0.9V)

• Accelerator Pedal Close Position Learning

• Erase DTCs

Continue to the next page.

- 12. When the entire reprogramming process is complete, the screen in Figure 8 will display.
- 13. Verify the before and after part numbers are different.
- 14. Print a copy of this screen (Figure 8) and attach it to the repair order for warranty documentation.
- 15. Select **Confirm**.

CONSULT-III plus Ver VIN:	Vehicle :	Country : U.S.A.				
Back Home Print Screen Capture	Measurement Mode	14.3V VI MI				
Re/programming, Configuration	e All DTCs Print Result / Operation Complete	18/18				
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 "CIII plus Data Folder" on desk top, and open the folder named "ScreenImages".						
Part number after Reprog/programming Step Part number before Reprog/programming 13	23710 23710	-				
Vehicle	*****					
VIN	*****					
System	ENGINE	Step Print				
Date	11/3/201x 2:10:2					
		Step 15 Confirm				

Figure 8

- 16. Return C-III plus to the home screen.
- 17. Turn the ignition OFF.
- 18. Disconnect the plus VI from the vehicle.
- 19. Go to <u>Air Fuel (A/F) Sensor Replacement</u> on the next page.

Air Fuel (A/F) Sensor Replacement

- 1. If needed, replace A/F Sensor(s).
 - a. Refer back to your notes from Check Air Fuel (A/F) Sensor Adjustment on page 6.
 - If **A/F ADJ-B1** value was out of specification, replace Bank 1 A/F sensor (bank 1 is toward the rear of the vehicle).
 - If **A/F ADJ-B2** value is out of specification, replace Bank 2 A/F sensor (bank 2 is toward the front of the vehicle).

NOTE: Replace A/F sensor(s) **<u>only</u>** if value was out of specification.

b. Refer to the Service Manual for A/F Sensor replacement information.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
A/F Sensor (Bank 1 or Bank 2)	22693 - 1MR0A	1 or 2

NOTE: Most vehicles serviced under this campaign will <u>not</u> require new sensors. Expected usage will be only 5% of serviced vehicles.

CLAIMS INFORMATION

Submit a "CM" line claim using the following claims coding:

"CM" I.D.: PC218

CAMPAIGN ID	DESCRIPTION	OP CODE	FRT
PC218	Check A/F Sensor and Reprogram ECM	PC2180	0.5 hrs

CAMPAIGN ID	DESCRIPTION	OP CODE	FRT
PC218	Check A/F Sensor, Reprogram ECM and Replace One A/F Sensor	PC2181	0.8 hrs

CAMPAIGN ID	DESCRIPTION	OP CODE	FRT
PC218	Check A/F Sensor, Reprogram ECM and Replace Two A/F Sensors	PC2182	1.0 hrs

OWNER'S LETTER

(For non-California owners)

Dear Nissan Altima 3.5L Owner:

Nissan has discovered that your model year 2013 Altima 3.5L is equipped with an improper calibration that may in some situations illuminate a Malfunction Indicator Light (MIL). The cause is a calibration error which can improperly supply power to the downstream Air-Fuel (A/F) sensor heater circuit during engine off diagnostics. This has no effect on vehicle fuel consumption or safety. Drivability and performance may in rare circumstances be temporarily affected.

What Nissan Will Do

To correct this condition, Nissan is conducting a Voluntary Service Campaign to reprogram the Engine Control Module (ECM) in your vehicle. Any affected A/F sensors will also be replaced. This free service should take about one hour to complete, but your Nissan dealer may require your vehicle for a longer period of time based upon their work schedule.

What You Should Do

Contact your Nissan dealer at your convenience in order to arrange an appointment to have your vehicle repaired. Please bring this notice with you when you keep your service appointment. Instructions have been sent to your Nissan dealer.

If the retailer fails, or is unable to complete the modifications free of charge, you may contact the National Consumer Affairs Department, Nissan North America, Inc., P.O. Box 685003, Franklin, TN 37068-5003. The toll free number is 1-800-NISSAN1 (1-800-647-7261).

Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.

(For California owners)

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You should also be aware that if a MIL occurs and your vehicle is not repaired it will fail a Smog Check test in those areas of California where such testing is required under state law.

What Nissan Will Do

To correct this condition, Nissan is conducting a Voluntary Service Campaign to reprogram the Engine Control Module (ECM) in your vehicle. Any affected A/F sensors will also be replaced. This free service should take about one hour to complete, but your Nissan dealer may require your vehicle for a longer period of time based upon their work schedule.

To ensure the least inconvenience for you, it is important that you have an appointment before bringing your vehicle to the dealer for service.

Your vehicle is eligible for this free service regardless of whether non-original parts were used for previous service and repairs, or if the service was performed by a repair facility other than a Nissan dealer.

What You Should Do

Contact your Nissan dealer at your convenience in order to arrange an appointment to have your vehicle repaired. Please bring this notice with you when you keep your service appointment. Instructions have been sent to your Nissan dealer.

If the retailer fails, or is unable to complete the modifications free of charge, you may contact the National Consumer Affairs Department, Nissan North America, Inc., P.O. Box 685003, Franklin, TN 37068-5003. The toll free number is 1-800-NISSAN1 (1-800-647-7261).

Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.