

PE17-002

NISSAN

7/28/2017

ATTACHMENT E

REDACTED\_PE17\_002\_Q8\_L

IST OF ACTIONS

**CONFIDENTIAL BUSINESS INFORMATION**

**PE17-002 ABS Actuator**

Action Title	Start Date	End Date	Objective Summary (Purpose)	Responsible Group	Conclusion Summary	Pages
NA-PRO-2007-01452	10/5/2007	12/8/2007	2008MY X61A(Titan, Armada, QX56) ABS Light On - Expected C/Unit Internal Failure	FQI/Design	<b>CONFIDENTIAL BUSINESS INFORMATION</b>	1 - 37
NA-PRO-2011-01246	6/7/2011	1/9/2012	2011MY Z51 (Murano) - Brake Pedal sinks to the floor, ABS Controller	Continental		38 - 75
NA-PRO-2013-04322	1/29/2014	4/17/2014	D40 (Frontier) ABS Actuator - Brake MIL On	Continental		76 - 105
Q8 Response and Flow Chart	5/17/2017	TBD	Question 8 response	Technical Compliance		106 - 108
Analysis of Reviewed Vehicle	5/17/2017	7/28/2017	Analysis of incident part	CQO		109
Conti Visit	7/10/2017	7/10/2017	Disassemble N=2 ABS actuators	Continental		110 - 119
VRTC Joint Inspection of Incident Vehicle	7/24/2017	TBD	Review customer incident vehicle. Disassemble ABS actuator	NHTSA		N/A

PE17-002

NISSAN

7/28/2017

ATTACHMENT E

REDACTED\_PE17\_002\_REQ

UEST 8 RESPONSE



# CARS / RAPIDA

## Project Report

**Project : NA-PRO-2007-01452**

**2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP**

### Contents:

PRO	Status	Status Date	Target	Responsible	
	<a href="#">NA-PRO-2007-01452</a>	Closed	08-Dec-2007	-	
MREP	Status	Status Date	Target	Responsible	
	<a href="#">NA-MREP-2007-01422</a>	Closed	08-Dec-2007	13-Dec-2007	-
FIR	Linked	Country	Author	Subject	
	<a href="#">NA-FIR-2007-00708</a>	01-Oct-2007		-	2008MY X61A(J/T/A60) ABS lights ON
IPS	Status	Status Date	Target	Responsible	
	<a href="#">NA-IPS-2007-01473</a>	Closed	29-Oct-2007	-	
PS	Issued	function			
	<a href="#">NA-PS-2008-01049</a>	02-Dec-2008	update	-	
	<a href="#">NA-PS-2008-00644</a>	11-Nov-2008	update	-	
REQ	Status	Status Date	Target	Responsible	
	<a href="#">NA-PIR-2007-00561</a>	Closed	15-Nov-2007	-	
CD	Status	Status Date	Target	Responsible	Related REQ#
	<a href="#">NA-CD-2007-00831</a>	Closed	06-Nov-2007	-	NA-PIR-2007-00561
ADR	Status	Status Date	Target	Responsible	Related CD#
	<a href="#">NA-ADR-2007-00516</a>	Closed	30-Nov-2007	-	NA-CD-2007-00831
	<a href="#">NA-ADR-2007-00515</a>	Closed	19-Nov-2007	-	NA-CD-2007-00831
AD	Status	Status Date	Target	Responsible	
	<a href="#">NA-AD-2007-01036</a>	Closed	15-Jan-2009	-	

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Project

Reference # : **NA-PRO-2007-01452** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

General

Classification :  
 code  
 Priority : M -Normal Taskforce : Yes  
 report  
 Priority : Restricted :  
 explanation Access  
 Priority :  
 justification  
 Model : A60 Local reference :  
 nr  
 Model year : 2008 Engine type :  
 Transmission :  
 System : Chassis type  
 Facilitator :  
 Q-Start Date : Q1 End date :  
 Q-Start Time : Q1 End Time :  
 Q2 End Date :  
 Q2 End Time :  
 Start & End time Format: HH:MM (where applicable)

Related documents

Related Documents

CMC	Status	Status Date	Target	Responsible	
<a href="#">-CMC-2007-01018</a>	Closed	30-Jun-2008	30-Jun-2008	-	
MREP	Status	Status Date	Target	Responsible	
<a href="#">NA-MREP-2007-01422</a>	Closed	08-Dec-2007	13-Dec-2007	-	
FIR	Linked	Country	Author	Subject	
<a href="#">NA-FIR-2007-00708</a>	01-Oct-2007	U.S.A.	Shigehisa MARUYAMA-NA-NA-NNA-PEI	2008MY X61A(J/T/A60) ABS lights ON	
IPS	Status	Status Date	Target	Responsible	
<a href="#">NA-IPS-2007-01473</a>	Closed	29-Oct-2007	-	-	
PS	Issued	function	Target	Responsible	
<a href="#">NA-PS-2008-01049</a>	02-Dec-2008	update	-	-	
<a href="#">NA-PS-2008-00644</a>	11-Nov-2008	update	-	-	
REQ	Status	Status Date	Target	Responsible	
<a href="#">NA-PIR-2007-00561</a>	Closed	15-Nov-2007	-	-	
CD	Status	Status Date	Target	Responsible	Related REQ#
<a href="#">NA-CD-2007-00831</a>	Closed	06-Nov-2007	-	-	NA-PIR-2007-00561
ADR	Status	Status Date	Target	Responsible	Related CD#
<a href="#">NA-ADR-2007-00516</a>	Closed	30-Nov-2007	-	-	NA-CD-2007-00831

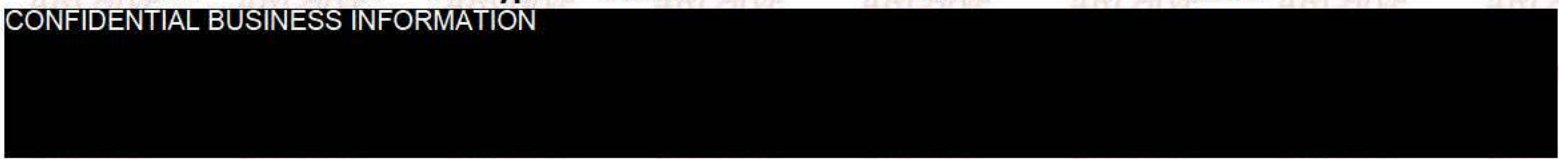
<a href="#">NA-ADR-2007-00515</a>	Closed	19-Nov-2007	-	NA-CD-2007-00831
File Attachment	Attachment Type	Attachment Description		Parent Reference
<a href="#">Open</a>	EX	Preliminary investigation results for ABS Units with supplier		NA-PRO-2007-01452
<a href="#">Open</a>	6-panel chart	6-Panel for 08MY A60		NA-PRO-2007-01452
<a href="#">Open</a>	6-panel chart	6-Panel for 08MY JA60		NA-PRO-2007-01452
<a href="#">Open</a>	6-panel chart	6-Panel for 08MY TA60		NA-PRO-2007-01452
<a href="#">Open</a>	PDF	8D From Supplier		NA-PIR-2007-00561
<a href="#">Open</a>	EX	Parts Spreadsheet Revised from Supplier		NA-PIR-2007-00561
<a href="#">Open</a>	EX	Warranty data for 2008MY X61A-ABS		NA-PRO-2007-01452
<a href="#">Open</a>	WD	Executive summary for X61A - ABS C/Unit		NA-PIR-2007-00561
AD	Status	Status Date	Target	Responsible
<a href="#">NA-AD-2007-01036</a>	Closed	15-Jan-2009	-	-

Executive Summary Images

Picture #1 :  
Picture #2 :

**Adoption data**

CD#	Plant	CM Type	Model	Model	VIN	VIN	Brand	Adoption
-----	-------	---------	-------	-------	-----	-----	-------	----------



Incident details

Date of first incident :

Is / Is not analysis

What : Is : Is not

Where :

When :

Extent :

Customer complaint : CUST STATES VDC,SLIP, AND BRAKE LITE ARE ON,, WATER TEMP WILL DROP DOWN TO 0 WHILE RUNNING

Details of concern : 127 RAN CONSULT-VEH HAD STORED CODE U1001-CAN COMMUNICATIONS FAILURE. TRACED CHASSIS WIRING HARNESS AND

Incident conditions :

Investigation results :

Repairs done & results :

**Reported VINs: 1**

VIN	TR/FIR	Production	Sold Date	Incident	Mileage	Engine	Transmission
-----	--------	------------	-----------	----------	---------	--------	--------------

Source Date Date  
 5N1BA08D28N U.S.A. 15-May-2007 No Sold.Date 07-Jun-2007 127 Miles No Engine type No Transmission type

Parts details

Part nr	Part name	Supplier	Quantity available
1.47660-ZC32C	ACTUATOR ASSY - ANTI SKID	Continental	1
2.			
3.			
4.			

Warranty data

Concern ranking:	Number of buy- : back cases
Total warranty : cost	Number of : claims
Cost per claim :	Estimated : incident ratio
Analysis : conditions	
Relevant PNC- : Tag Pairs	47600-CTJ; 47600-CTH; 47600-CTG; 47600-CAJ; 47600- CAH; 47600-CAG; 47600-CXJ; 47600-CXH; 47600-CXG
E.g.:79905- KQ7 (separate with ';')	

Warranty reduction data

	Warranty cost	Number of claims
Total :		
Sold :		
Selling :		
1 yr total :		
1 yr sold :		
1 yr selling :		

Detailed warranty data

Model :	Type :
Engine :	Transmission :
Cost per vehicle :	Incident ratio :

Survey related

IQS4 question nr :	JD Power :
APEAL question nr :	

Archive

FES engineer :	K.Matsuzawa
File location / number :	
Project start date :	
Close date :	08-Dec-2007
Last correspondence :	
Destroy date :	

Coding block

Unit code : DCH\_Brakes -Brakes PFP : 47660-ZC32C  
 SM category : BRV -VDC Additional PFP :  
 (Dynamics Control-ABS/TCS)  
 Cs code : HC -warning light on Ct code : 32 -internal failure  
 DTC code : Warr group : P5 -Anti-lock brake  
 code (ABS)  
 Phenomenon : Current 3MIS : Warning Light On:  
 Value Brake/ABS

Workflow & History

Security

Region	Organisation	Department	Name	Role
Responsible	:			

Sharing : No

Admin only

Deadline date :  
 Archive Date : 08-Dec-2019  
 Current user : Shigehisa MARUYAMA-NA  
 Authors : NONE  
 Readers : GCP\_NA\_NNA\_PEI  
 Shigehisa MARUYAMA-NA  
 GCP\_PI  
 GCP\_NONMARKET  
 GCP\_NA\_NNA\_PEI

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
01-Oct-2007	Save	Draft	Shigehisa MARUYAMA-NNA NA		Shigehisa MARUYAMA-NA		
05-Oct-2007	Publish	Public	Shigehisa MARUYAMA-NNA NA		Shigehisa MARUYAMA-NA		
08-Dec-2007	(Close by MREP)	Closed	Shigehisa MARUYAMA-NNA NA				

Comments

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# Market Reply

Reference # : **NA-MREP-2007-01422** Status : **Closed**  
 Target : 13-Dec-2007 Responsible : (--)  
 Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## General

Reply Type : Final reply TSB Issue or : --Select--  
 Not

Model : A60; JA60; TA60 TSB No. :  
 Model year : 2008 TSB Issue :  
 System : Chassis Date

Reason Why :  
 TSB Not Issued

Engine type :  
 TSB :  
 Reminder Date

Transmission :

TR/PRO result : No applicable TR

Restricted Access :

C/M Effectiveness Check : Yes

C/M Effectiveness check Date : 21-Jan-2008

Details of Concern

127 RAN CONSULT-VEH HAD STORED CODE U1001-CAN COMMUNICATIONS FAILURE. TRACED CHASSIS WIRING HARNESS AND

Investigation Results & root causes

-----  
Investigation Results:  
-----

Root cause:

5 units listed on attached spreadsheet. 1 parts was submitted to the supplier for investigation. 5N1BA08D28N [REDACTED] was noted as a capacitor issue with 8D attached.

Conclusions

CONFIDENTIAL BUSINESS INFORMATION  
[REDACTED]

Related documents

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON  
- expected C/Unit internal INOP  
Priority: M -Normal

Related Documents

FIR	Linked	Country	Author	
<a href="#">NA-FIR-2007-00708</a>	01-Oct-2007	U.S.A.	Shigehisa MARUYAMA-NA - NA-NNA-PEI	2008MY X61A(J/T/A60) ABS lights ON

Coding block

Unit code : DCH\_Brakes -Brakes PFP : 47660-ZC32C  
SM category : BRV -VDC Additional PFP :  
(Dynamics Control-ABS/TCS)  
Cs code : HC -warning light on Ct code : 32 -internal failure  
DTC code : Warr group : P5 -Anti-lock brake code (ABS)  
Phenomenon : Current 3MIS Value

Countermeasures

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

CONFIDENTIAL BUSINESS INFORMATION



Parts info

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Part 1 Part 2 Part 3 Part 4 ARCHIVE

Part name :  
New # :  
Old # : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
Supplier :  
Lot # : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
Instruction old:  
parts

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Part 5 Part 6 Part 7 Part 8 ARCHIVE

Part name :  
New # :  
Old # : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
Supplier :  
Lot # : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
Instruction old:  
parts

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Part 9 Part 10 Part 11 Part 12 ARCHIVE

Part name :  
New # :  
Old # : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Supplier :  
 Lot # :  
 Instruction old:  
 parts

**Workflow & History**

**Security**

Region Organisation Department Name Role

Responsible :

Sharing : No

**Admin only**

Deadline date : 13-Dec-2007

Archive Date :

Current user : Jim BLENKARN

Authors : NONE

Readers : GCP\_NA\_NNA\_PEI  
 Shigehisa MARUYAMA-NA  
 GCP\_NA\_NSC  
 GCP\_PI  
 GCP\_NONMARKET  
 GCP\_NA\_NNA\_PEI

**Document History**

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
30-Nov-2007	Save	Draft	Shigehisa MARUYAMA-NA	MARUYAMA-NA	Shigehisa MARUYAMA-NA		
30-Nov-2007	Request Approval	Awaiting Approval	Shigehisa MARUYAMA-NA	MARUYAMA-NA	Jim BLENKARN		
08-Dec-2007	Close as final	Closed	Jim BLENKARN	NNA			

Send Prior Notification to  
 User 1 :  
 User 2 :  
 User 3 :  
 User 4 :

User 5  
User 6  
Pre-Notified

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# Field Investigation Report

Reference # : **NA-FIR-2007-00708** Status : **Closed**

Target : Responsible : (--)  
 Subject : 2008MY X61A(J/T/A60) ABS lights ON

## General

Priority : M -Normal Restricted :  
 Model : TA60 Access :  
 Taskforce : Yes  
 report  
 Customer : L -Low or No F1  
 impact Impact  
 Model year : 2008 F1 cause :

## Related documents

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON  
 - expected C/Unit internal INOP

Related Documents

## Coding block

Unit code : DCH\_Brakes -Brakes PFP : 47660-ZC32C  
 SM category : BRV -VDC Additional PFP :  
 (Dynamics Control-  
 ABS/TCS)  
 Cs code : HC -warning light on Ct code : 32 -internal failure  
 DTC code : Warr group : P5 -Anti-lock brake  
 code (ABS)  
 Phenomenon : Current 3MIS :  
 Value  
 Tread code : 03 -Brakes-Service F, s, s, s : No

## Investigation details

Investigation date : 21-Sep-2007 Country/State/Province: Smyrna, TN

Dealer code : Dealer Name : NNA-FQI

Attendee Information

Name Organisation  
1. Shigehisa MARUYAMA NNA-FQI  
2. Gaurav Vij Continental  
3.  
4.

Conclusions : We confirmed the incident (no communication with ABS ECU)

Incident details

Incident mileage : 127 Miles Date of incident : 07-Jun-2007

Town of incident : CONROE, TX

Background info:

Customer complaint : CUST STATES VDC,SLIP, AND BRAKE LITE ARE ON,, WATER TEMP WILL DROP DOWN TO 0 WHILE RUNNING

Details of incident : 127 RAN CONSULT-VEH HAD STORED CODE U1001-CAN COMMUNICATIONS FAILURE. TRACED CHASSIS WIRING HARNESS AND

Repairs done & results :

Action for incident parts : Collected

Vehicle details

VIN : 5N1BA08D28N [REDACTED] Engine type :  
Basic model : Engine nr :  
Prefix : Transmission :  
Suffix : type  
Transmission :  
nr  
Serial nr : Body type :  
Vehicle type : Grade :  
Plant code : Airbag :  
Production date: 15-May-2007 ABS :  
Sold date : Air conditioning:  
Registration nr : Color code :  
Customer name : Truck features :

DC Converter No : Inverter No :  
 PBW ECU No On Board : Battery Pack No :  
 Charge No : Electric PKB :  
 Electric PKB : ECU No :  
 ATR No : Electric Heater :  
 Unit No

**Parts details**

Part nr	Part name	Supplier	Quantity available
1.47660-ZC32C	ACTUATOR ASSY - ANTI SKID	Continental	1
2.			
3.			
4.			

**Survey**

IQS4 question nr : JD Power :  
 APEAL question nr :

**Workflow & History**

**Security**

Region Organisation Department Name : Role  
 Responsible :  
 Sharing : No

**Admin only**

Deadline date :  
 Archive Date : 08-Dec-2019  
 Current user : Shigehisa MARUYAMA-NA  
 Authors : NONE  
 Readers : GCP\_NA\_NNA\_PEI  
 Shigehisa MARUYAMA-NA  
 GCP\_NA\_NSC  
 GCP\_PI  
 GCP\_NONMARKET  
 NONE

Bring to the attention of

User 1

User 2

User 3

User 4

User 5

User 6

:  
:  
:  
:  
:  
:

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
01-Oct-2007	Save	Draft	Shigehisa	MARUYAMA-NNA NA	Shigehisa	MARUYAMA- NA	
01-Oct-2007	Close	Closed	Shigehisa	MARUYAMA-NNA NA			
01-Oct-2007	(Create Link From Project)	Closed	Shigehisa	MARUYAMA-NNA NA			

# Incident Parts Shipment

Reference # : **NA-IPS-2007-01473** Status : **Closed**

Target : Responsible : (--)  
Subject : 2008MY X61A(J/T/A60) ABS lights ON

## General

Model : A60

Comments : This IPS is for follwoing VINs;  
5N1BA08D28N [REDACTED]  
1N6BA07F08N [REDACTED]  
1N6BA07F98N [REDACTED]

## General

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON  
- expected C/Unit internal INOP

## Related Documents

## Shipment information

### Shipment 1

Parts sent date : 01-Oct-2007 Parts received date : 12-Oct-2007

Shipping method : Other Airway bill nr :

Courier company : By Hand

### Shipment 2

Parts sent date : Parts received date :

Shipping method : Airway bill nr :

Courier company :

### Shipment 3

Parts sent date : Parts received :

date

Shipping method  
Courier company

Airway bill nr

Parts information

Final parts destination

Contact Person : Gaurav Vij  
Telephone Number : (248)393-8766

Parts delivery address

Company Name : Continental Automotive Systems  
Street & number : One Continental Dr.  
City : Auburn Hills  
District : MI  
Postal Code : 483261581  
Country : us -U.S.A.

Pickup Territory :

Purpose of parts:

Part nr	Part name	Supplier	Lot nr	Quantity requested	Quantity sent
1.47660-ZC32C	ACTUATOR ASSY - ANTI SKID	Continental			3
2.					
3.					
4.					

VIN number

Repair date

PFP

Contact person

Dealer code

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Workflow & History

Region Organisation Department Name Role

Responsible : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Sharing : No ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Admin only

Deadline date : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Archive Date : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Current user : Jessica MARTIN ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Authors : NONE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Readers : GCP\_USERS ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Shigehisa MARUYAMA-NA  
GCP\_NA\_NNA-C\_PQA

Document History ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
01-Oct-2007	Send Parts	Parts Sent	Shigehisa MARUYAMA-NA	NNA	Jessica MARTIN		
29-Oct-2007	Confirm Receipt	Closed	Jessica MARTIN	NNA-C			

# Project Supplement

Reference # : **NA-PS-2008-01049** Status : **Closed**

Target : Responsible : (--)

Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## General

Supplement function : Update Project fields Restricted Access :

Model year : Taskforce report : No

Priority explanation : Facilitator :

Priority justification :

Model : Local reference nr :

System : Engine type :  
Transmission type :

Unit code : DCH\_Brakes -Brakes PFP : 47660-ZC32C

SM category : BRV -VDC Additional PFP :  
(Dynamics Control-ABS/TCS)

Cs code : HC -warning light on Ct code : 32 -internal failure

DTC code : Warr group : P5 -Anti-lock brake code (ABS)

Phenomenon : Current 3MIS : Warning Light On: Value Brake/ABS

Concern ranking: Number of buy-back cases :

Total warranty cost : Number of claims :

Cost per claim : Estimated incident ratio :

Analysis conditions : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Q-Start Date : ARCHIVE Q1 End date : ARCHIVE  
Q-Start Time : ARCHIVE Q1 End Time : ARCHIVE  
Q2 End Date : ARCHIVE  
Q2 End Time : ARCHIVE

Start & End time Format: HH:MM (where applicable)

General comments : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

### Related documents ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON  
- expected C/Unit internal INOP ARCHIVE

Related Documents ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

### Workflow & History

#### Security ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Responsible : Region Organisation Department Name Role ARCHIVE ARCHIVE

Sharing : No ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

#### Admin only

Deadline date : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Archive Date : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Current user : Hoyt SMITH ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Authors : NONE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Readers : GCP\_NA\_NNA\_PEI ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

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GCP\_NA\_NNA\_PEI ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

#### Document History ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
02-Dec-2008	Save	Draft	Hoyt SMITH	NNA	Hoyt SMITH		

02-Dec-  
2008

Close

Closed

Hoyt  
SMITH

NNA

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# Project Supplement

Reference # : **NA-PS-2008-00644** Status : **Closed**

Target : Responsible : (--)  
 Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## General

Supplement function : Update Project fields Restricted Access :

Model year : Taskforce report : No  
 Priority explanation : Facilitator :

Priority justification :

Model : Local reference nr :  
 System : Engine type :  
 Transmission type :

Unit code : DCH\_Brakes -Brakes PFP : 47660-ZC32C  
 SM category : BRV -VDC Additional PFP :  
 (Dynamics Control-ABS/TCS)  
 Cs code : HC -warning light on Ct code : 32 -internal failure  
 DTC code : Warr group : P5 -Anti-lock brake  
 code (ABS)  
 Phenomenon : Current 3MIS : Warning Light On:  
 Value Brakes/ABS

Concern ranking: Number of buy-back cases :  
 Total warranty cost : Number of claims :  
 Cost per claim : Estimated incident ratio :

Analysis conditions : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Q-Start Date : ARCHIVE Q1 End date : ARCHIVE ARCHIVE  
Q-Start Time : ARCHIVE Q1 End Time : ARCHIVE ARCHIVE  
Q2 End Date : ARCHIVE ARCHIVE  
Q2 End Time : ARCHIVE ARCHIVE

Start & End time Format: HH:MM (where applicable)

General comments : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Related documents ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON  
- expected C/Unit internal INOP ARCHIVE

Related Documents ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Workflow & History

Security ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Responsible : Region Organisation Department Name Role ARCHIVE ARCHIVE

Sharing : No ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Admin only

Deadline date : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Archive Date : ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Current user : Hoyt SMITH ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Authors : NONE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Readers : GCP\_NA\_NNA\_PEI ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Hoyt SMITH ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
GCP\_PI ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

GCP\_NONMARKET ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
GCP\_NA\_NNA\_PEI ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Document History ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
11-Nov-2008	Save	Draft	Hoyt SMITH	NNA	Hoyt SMITH		

11-Nov-  
2008

Close

Closed

Hoyt  
SMITH

NNA

*ARCHIVE*

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# Preliminary Investigation Request

Reference # : **NA-PIR-2007-00561** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## General

Classification code :  
 C-Speed : LT updated on :  
 Leadtime :  
 Request type : PIR - Preliminary Investigation Request  
 Priority : M -Normal Engine type :  
 Model : A60 Transmission type :  
 Restricted : Res. :  
 Access : Department :  
 Joint Analysis : No Res. Company :  
 : Market :  
 Concern details : 127 RAN CONSULT-VEH HAD STORED CODE U1001-CAN COMMUNICATIONS FAILURE. TRACED CHASSIS WIRING HARNESS  
 [8 ABS C/Units have been handed over to supplier]  
 TaskForce Report : Yes

PI Request : - Please follow-up the supplier to detail investigation for 8 sets of ABS units.  
 - Please provide FQI with investigation results.  
 - Please inform FQI of countermeasure information, if you get.

Pre-select Destination :

## Related documents

Project :  
 Integration Candidate :

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## Related Documents

CD	Status	Status Date	Target	Responsible	Related REQ#
<a href="#">NA-CD-2007-00831</a>	Closed	06-Nov-2007	-	-	NA-PIR-2007-00561
ADR	Status	Status Date	Target	Responsible	Related CD#
<a href="#">NA-ADR-2007-00516</a>	Closed	30-Nov-2007	-	-	NA-CD-2007-00831
<a href="#">NA-ADR-2007-00515</a>	Closed	19-Nov-2007	-	-	NA-CD-2007-00831
File Attachment	Attachment Type	Attachment Description			
<a href="#">Open</a>	PDF	8D From Supplier			
<a href="#">Open</a>	EX	Parts Spreadsheet Revised from Supplier			

Adoption data

CD#	Plant	CM Type	Model	Model	VIN	VIN	Brand	Adoption
-----	-------	---------	-------	-------	-----	-----	-------	----------



Coding block

Unit code : DCH\_Brakes -Brakes PFP : 47660-ZC32C  
 SM category : BRV -VDC Additional PFP :  
 (Dynamics Control-ABS/TCS)  
 Cs code : HC -warning light on Ct code : 32 -internal failure  
 DTC code : Warr group : P5 -Anti-lock brake  
 code (ABS)  
 Phenomenon : Current 3MIS :  
 Value

Reply

Details

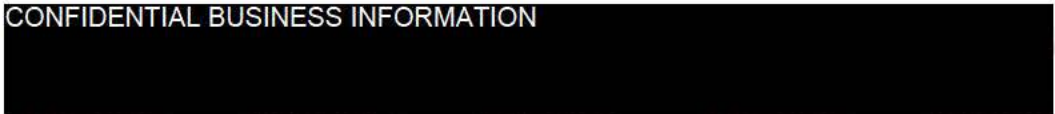
Relevant for recurrence prevention : Yes  
 Investigation results :  
 Incident duplication results :  
 Root cause : 5 units listed on attached spreadsheet. 1 parts was submitted to the supplier for investigation. 5N1BA08D28N604804 was noted as a capacitor issue with 8D attached.

First Aid Countermeasure :

Temporary Countermeasure :

Permanent Countermeasure :

Conclusion



Supplier 1 Request investigation? :

Supplier 2  
Request :  
investigation?  
Is / Is not analysis

Is :  
What :  
Where :

When :  
Extent :

**Workflow & History**

**Cross-regional**

PI Responsible :  
person

**Security**

Responsible	Region	Organisation	Department	Name	Role
Sharing	: No				

**Admin only**

Deadline date :  
Archive Date :  
Current user : Shigehisa MARUYAMA-NA  
Authors : NONE  
Readers : GCP\_NA\_NNA\_PEI  
Shigehisa MARUYAMA-NA  
GCP\_NONMARKET  
GCP\_PI  
Jessica MARTIN  
GCP\_NA\_NNA-C\_POA  
GCP\_NA\_NNA\_PEI

**Document History**

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
08-Oct-2007	Save	Draft	Shigehisa MARUYAMA-NA	NNA	Shigehisa MARUYAMA-NA		
10-Oct-2007	Request Approval	Awaiting Approval	Shigehisa MARUYAMA-NA	NNA	Koji MATSUZAWA-NA		
10-Oct-2007	Reassign	Awaiting Approval	Koji MATSUZAWA-NA	NNA	Jim BLENKARN		
12-			Jim		Jessica		

Oct-2007	Assign	Assigned	BLENKARN	NNA	MARTIN		
17-Oct-2007	Request Investigation	Investigation	Jessica MARTIN	NNA-C	Lou Credle	Jessica MARTIN	
05-Nov-2007	Close Investigation	Assigned	Jessica MARTIN	NNA-C	Jessica MARTIN		
06-Nov-2007	Close	Public	Jessica MARTIN	NNA-C	Shigehisa MARUYAMA-NA		
15-Nov-2007	Close	Closed	Shigehisa MARUYAMA-NA	NNA			

Comments

Send Prior Notification to

- User 1 : Stan SWARTFIGUER(NA-NNA-PEI)
- User 2 :
- User 3 :
- User 4 :
- User 5 :
- User 6 :
- Pre-Notified : ()

## Countermeasure Data

Reference # : **NA-CD-2007-00831** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

### Design note data

Model : A60  
 C/M type :  
 % Effectiveness :  
 Restricted Access :  
 Access :

DN #	Principle DN	D/N 2	D/N 3	D/N 4	D/N 5
DN issue section					
DN issue date					
Planned adoption date					
Change of cost					
Change of weight					
Pre-select					
Destination					
PCN Judgement	No				
Reason					

### Related documents

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP  
 Link to Parent : [NA-PIR-2007-00561](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

### Related Documents

ADR	Status	Status Date	Target	Responsible	Related CD#
<a href="#">NA-ADR-2007-00516</a>	Closed	30-Nov-2007	-	-	NA-CD-2007-00831
<a href="#">NA-ADR-2007-00515</a>	Closed	19-Nov-2007	-	-	NA-CD-2007-00831

### Adoption data

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
-----	-------	---------	-------	------------	-----	----------	-------	---------------

CONFIDENTIAL BUSINESS INFORMATION

Coding block

Unit code : DCH\_Brakes -Brakes PFP : 47660-ZC32C  
 SM category : BRV -VDC Additional PFP :  
 (Dynamics Control-  
 ABS/TCS)  
 Cs code : HC -warning light on Ct code : 32 -internal failure  
 DTC code : Warr group : P5 -Anti-lock brake  
 code (ABS)  
 Phenomenon : Current 3MIS :  
 Value

Countermeasure details

Root cause reference : 5 units listed on attached spreadsheet. 1 parts was submitted to the supplier for investigation. 5N1BA08D28N604804 was noted as a capacitor issue with 8D attached.

Countermeasure: Details

Verification of C/M :

Horizontal deployment model :

Horizontal deployment (Q6) :

Horizontal deployment :

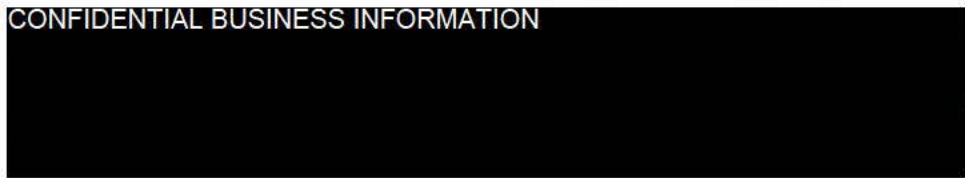
Recurrence prevention (Q5) :

Recurrence prevention :

Service notification :

Corrective actions

CONFIDENTIAL BUSINESS INFORMATION



Materials Load :

Manufacturing method :

Comments :

Countermeasure parts

	Part 1	Part 2	Part 3	Part 4		
Part name	:				ARCHIVE	ARCHIVE
New part #	:				ARCHIVE	ARCHIVE
Old part #	:	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Supplier	:				ARCHIVE	ARCHIVE
Supersession instruction	:	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
					ARCHIVE	ARCHIVE
	Part 5	Part 6	Part 7	Part 8		
Part name	:				ARCHIVE	ARCHIVE
New part #	:	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Old part #	:				ARCHIVE	ARCHIVE
Supplier	:	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Supersession instruction	:	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
					ARCHIVE	ARCHIVE
	Part 9	Part 10	Part 11	Part 12		
Part name	:				ARCHIVE	ARCHIVE
New part #	:				ARCHIVE	ARCHIVE
Old part #	:	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Supplier	:				ARCHIVE	ARCHIVE
Supersession instruction	:	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE

Workflow & History

Security						
Responsible	:	Region	Organisation	Department	Name	Role
Sharing	:	No				
Admin only						
Deadline date	:					
Archive Date	:					
Current user	:	Jessica MARTIN				
Authors	:	NONE				
Readers	:	GCP_NA_NNA-C_PQA Jessica MARTIN GCP_NA_NONMARKET GCP_PI GCP_NONMARKET GCP_NA_NNA-C_PQA				

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
06-Nov-2007	Request Approval	Awaiting Approval	Jessica MARTIN	NNA-C	Jessica MARTIN		

06-Nov-2007	Assign to window	In Process	Jessica MARTIN	NNA-C	Jessica MARTIN			
06-Nov-2007	Close	Closed	Jessica MARTIN	NNA-C				
Send Prior Notification to								
User 1	:							
User 2	:							
User 3	:							

# Adoption Data Request

Reference # : **NA-ADR-2007-00516** Status : **Closed**

Target : Responsible : (--)  
Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## General

Adoption Type : Part adoption  
Model : A60; JA60; TA60  
Request for :  
Relevant plants : NNA-C (Jessica MARTIN)  
NNA-C (Brad LOWE)

## Background

Countermeasure details : **CONFIDENTIAL BUSINESS INFORMATION**

	Principle DN	D/N 2	D/N 3	D/N 4	D/N 5
DN #	:				
DN issue date	:				
Part / Unit C/M details request					
C/M lot nr	:				
Unit model	:				
C/M unit nr	:				
C/M date of part / unit	:				
RAN nr	:				

## Related documents

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

Link to Parent : [NA-CD-2007-00831](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## Adoption data

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
No Adoption Data found								

**Workflow & History**

**Security**

Responsible	Region	Organisation	Department	Name	Role
Sharing	No				

**Admin only**

Deadline date	:				
Archive Date	:				
Current user	:	Brad	LOWE		
Authors	:	NONE			
Readers	:	GCP_NA_NNA_PEI			
		Shigehisa	MARUYAMA-NA		
		GCP_PI			
		GCP_NONMARKET			
		GCP_NA_NNA-C_POA			

**Document History**

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
07-Nov-2007	(Request Adoption)	Adoption Requested	Shigehisa	MARUYAMA-NNA	Brad	LOWE	
30-Nov-2007	Close	Closed	Brad	LOWE	NNA-C		

# Adoption Data Request

Reference # : **NA-ADR-2007-00515** Status : **Closed**

Target Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP Responsible : (--)

## General

Adoption Type : Part adoption  
Model : A60; JA60; TA60  
Request for :  
Relevant plants : NNA-C (Jessica MARTIN)  
NNA-C (Brad LOWE)

## Background

Countermeasure details: **CONFIDENTIAL BUSINESS INFORMATION**

Principle DN D/N 2 D/N 3 D/N 4 D/N 5

DN # :  
DN issue date :

## Part / Unit C/M details request

C/M lot nr :  
Unit model :  
C/M unit nr :  
C/M date of part / unit :  
RAN nr :

## Related documents

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

Link to Parent : [NA-CD-2007-00831](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## Adoption data

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
-----	-------	---------	-------	------------	-----	----------	-------	---------------

**CONFIDENTIAL BUSINESS INFORMATION**

## Workflow & History

### Security

Region Organisation Department Name Role  
 Responsible :  
 Sharing : No

### Admin only

Deadline date :  
 Archive Date :  
 Current user : Jessica MARTIN  
 Authors : NONE  
 Readers : GCP\_NA\_NNA\_PEI  
 Shigehisa MARUYAMA-NA  
 GCP\_PI  
 GCP\_NONMARKET  
 GCP\_NA\_NNA-C\_PQA

### Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
07-Nov-2007	Save	Draft	Shigehisa MARUYAMA-NA		Shigehisa MARUYAMA-NA		
07-Nov-2007	Request Adoption	Adoption Requested	Shigehisa MARUYAMA-NA		Jessica MARTIN		
19-Nov-2007	Close	Closed	Jessica MARTIN	NNA-C			

# Adoption Data

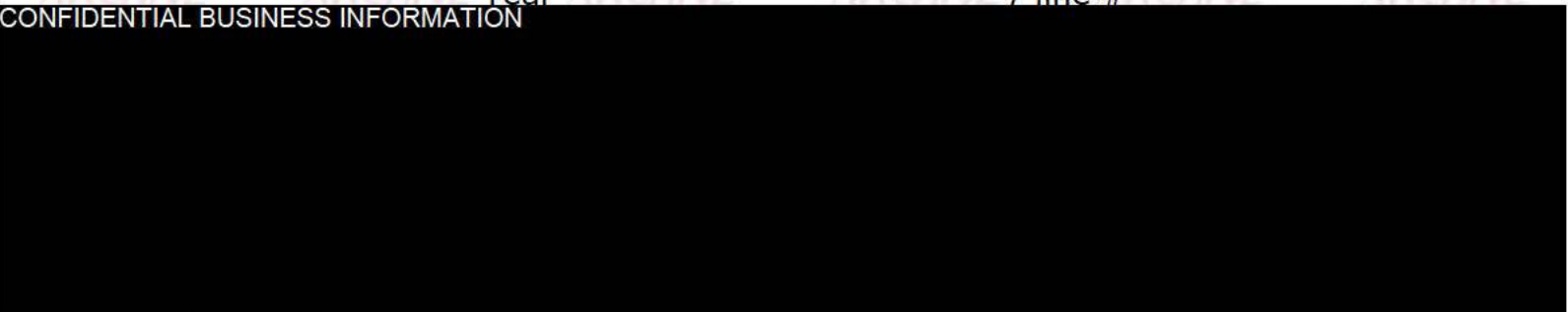
Reference # : **NA-AD-2007-01036** Status : **Closed**

Target : Responsible : (--)  
Subject : 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## General

Plant : Canton

C/M type	Model Year	Model Year	VIN nr	VIN type / line #	Brand	Adoption date
----------	------------	------------	--------	-------------------	-------	---------------



## Related documents

Link to project : [NA-PRO-2007-01452](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

Link to Parent : [NA-ADR-2007-00515](#) 2008MY X61A(J/T/A60) ABS lights ON - expected C/Unit internal INOP

## Workflow & History

### Security

Responsible : Region Organisation Department Name Role

Sharing : No

### Admin only

Deadline date :

Archive Date :

Current user : Jessica MARTIN

Authors : NONE

Readers : GCP\_PI  
GCP\_NA\_NONMARKET  
GCP\_NA\_NNA-C\_PQA  
Jessica MARTIN

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
19-Nov-2007	Close	Closed	Jessica MARTIN	NNA-C			
15-Jan-2009	Save	Closed	Steve LOWRY	NNA			added Plant from VIN



## Project Report

**Project : NA-PRO-2011-01246**

**2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller**

### Contents:

PRO	Status	Status Date	Target	Responsible	
	<a href="#">NA-PRO-2011-01246</a>	Closed	09-Jan-2012	-	
MREP	Status	Status Date	Target	Responsible	
	<a href="#">NA-MREP-2012-00088</a>	Closed	09-Jan-2012	-	
TR	Linked	Country	Author	Subject	
	<a href="#">NA-TR-2011-01016</a>	09-Jan-2012	-	2011 Z51 Murano brake pedal sinks to floor, ABS Controller	
IPS	Status	Status Date	Target	Responsible	
	<a href="#">NA-IPS-2011-01285</a>	Closed	02-Aug-2011	-	
	<a href="#">NA-IPS-2011-01208</a>	Closed	06-Jun-2011	-	
REQ	Status	Status Date	Target	Responsible	
	<a href="#">NA-PIR-2011-00309</a>	Closed	06-Oct-2011	-	
CD	Status	Status Date	Target	Responsible	Related REQ#
	<a href="#">JP-CD-2011-01134</a>	Closed	05-Oct-2011	-	NA-PIR-2011-00309
ADR	Status	Status Date	Target	Responsible	Related CD#
	<a href="#">JP-ADR-2011-00558</a>	Closed	20-Dec-2011	-	JP-CD-2011-01134
AD	Status	Status Date	Target	Responsible	
	<a href="#">JP-AD-2011-01842</a>	Closed	20-Dec-2011	-	

Project

Reference # : **NA-PRO-2011-01246** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

General

Priority : I -Important Taskforce : No  
 report  
 Priority : Restricted :  
 explanation Access  
 Priority :  
 justification  
 Model : Z51 Local reference :  
 nr  
 Model year : 2011 Engine type : VQ35  
 Transmission : A  
 System : Chassis  
 Facilitator

Q-Start Date : Q1 End date :  
 Q-Start Time : Q1 End Time :  
 Q2 End Date :  
 Q2 End Time :  
 Start & End time Format: HH:MM (where applicable)

Related documents

Related Documents

MREP	Status	Status Date	Target	Responsible	
<a href="#">NA-MREP-2012-00088</a>	Closed	09-Jan-2012	-	-	
TR	Linked	Country	Author	Subject	
<a href="#">NA-TR-2011-01016</a>	07-Jun-2011	U.S.A.	Charles SEYMOUR - NA-TSM-ALL	2011 Z51 Murano brake pedal sinks to floor, ABS Controller	
IPS	Status	Status Date	Target	Responsible	
<a href="#">NA-IPS-2011-01285</a>	Closed	02-Aug-2011	-	-	
<a href="#">NA-IPS-2011-01208</a>	Closed	06-Jun-2011	-	-	
REQ	Status	Status Date	Target	Responsible	
<a href="#">NA-PIR-2011-00309</a>	Closed	06-Oct-2011	-	-	
CD	Status	Status Date	Target	Responsible	Related REQ#
<a href="#">JP-CD-2011-01134</a>	Closed	05-Oct-2011	-	-	NA-PIR-2011-00309
ADR	Status	Status Date	Target	Responsible	Related CD#
<a href="#">JP-ADR-2011-00558</a>	Closed	20-Dec-2011	-	-	JP-CD-2011-01134
File Attachment	Attachment Type	Attachment Description		Parent Reference	

<a href="#">Open</a>	WD	11MY Murano (Z51) Brk Pedal Sinks to Floor - Incident Summary	NA-PIR-2011-00309	
<a href="#">Open</a>	EX	Investigation result reply sheet (plant)	NA-PIR-2011-00309	
<a href="#">Open</a>	TX	Password to open supplier report	NA-PIR-2011-00309	
<a href="#">Open</a>	PDF	Part investigation report (supplier)	NA-PIR-2011-00309	
<a href="#">Open</a>	Vid	Video showing brake pedal sinking under moderate pressure. Engine running, fluid level full, no external fluid leaks visible	NA-TR-2011-01016	
<a href="#">Open</a>	Vid	Incident Duplication Video	NA-PIR-2011-00309	
<a href="#">Open</a>	EX	Z51 Warranty Verbatim - Pedal to Floor Investigation	NA-PIR-2011-00309	
AD	Status	Status Date	Target	Responsible
<a href="#">JP-AD-2011-01842</a>	Closed	20-Dec-2011		-

Executive Summary Images

Picture #1 :  
Picture #2 :

**Adoption data**

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
-----	-------	---------	-------	------------	-----	----------	-------	---------------



Incident details

Date of first incident :

Is / Is not analysis

Is Is not

What :

Where :

When :

Extent :

Customer complaint : Customer states the brake pedal feels mushy when braking at a stop

Details of concern :

1. how did the customer notice the incident  
Brake pedal sinks to 1" before floor before brakes apply
2. What are the incident conditions
3. Inspection done & result  
Technician confirmed customer's incident conditions of mushy pedal feel.  
TSM observed no warning lights illuminated on meter  
TSM inspected vehicle for visual signs of fluid leakage- None found  
TSM confirmed brake fluid level in reservoir was full.  
TSM inspected vehicle and duplicated the customers incident

conditions with the engine running. (video)  
 TSM observed the brake pedal would sink to approximately 25mm from floor before a solid pedal feel was felt.  
 Application of the throttle when the brake pedal was fully depressed did not result in movement the vehicle in F or R.  
 TSM recommended replacement of brake master cylinder and booster assembly. Incident remains after replacement.  
 TSM confirmed technician did NOT use a pressure bleeder on the system when repairs were performed.  
 TSM recommended replacement of ABS control unit - Incident conditions have been resolved.  
 ABS controller collected for inspection by engineering.

Incident conditions :

Investigation results :

Repairs done & results : 1. Repairs done  
 ABS controller replaced, brake system bled of air, fluid levels checked.  
 Brake pedal height is consistent with KGV  
 Vehicle road tested - OK  
 2. Results  
 Incident conditions resolved.

**Reported VINs: 1**

VIN	TR/FIR Source	Production Date	Sold Date	Incident Date	Mileage	Engine	Transmission
JN8AZ1MW3BW	U.S.A.	27-Oct-2010	4 -Apr-2011	16-May-2011	946 Miles	VQ35	A

**Parts details**

Part nr	Part name	Supplier	Quantity available
1.47660-1SW0B	ABS Controller/Actuator		1
2.			
3.			
4.			

**Warranty data**

Concern ranking: Number of buy-back cases :  
 Total warranty cost : Number of claims :  
 Cost per claim : Estimated incident ratio :

Analysis conditions :

Relevant PNC-Tag Pairs : 47600-KMM  
 E.g.: 79905-KQ7 (separate

with ';'')

Warranty reduction data

	Warranty cost	Number of claims
Total	:	
Sold	:	
Selling	:	
1 yr total	:	
1 yr sold	:	
1 yr selling	:	

Detailed warranty data

Model	:	Type	:
Engine	:	Transmission	:
Cost per vehicle	:	Incident ratio	:

Survey related

IQS4 question	:	JD Power	:
nr			
APEAL question	:		
nr			

Archive

FES engineer	:
File location / number	:
Project start date	:
Close date	: 09-Jan-2012
Last correspondence	:
Destroy date	:

Coding block

Unit code	:	DCH_Brakes -Brakes	PFP	:	47660
SM category	:	BRA -ABS Brake	Additional PFP	:	
		System			
Cs code	:	DE -brake pedal	Ct code	:	32 -internal failure
		height change			
DTC code	:		Warr group code	:	P5 -Anti-lock brake (ABS)
Phenomenon	:		Current 3MIS Value	:	0.00

Workflow & History

Security

Region	Organisation	Department	Name	Role
Responsible	:			
Sharing	:	No		

Admin only

Deadline date :  
Archive Date : 09-Jan-2019

Current user : Keith SWAN  
Authors : NONE

Readers : GCP\_PI  
GCP\_NONMARKET  
Keith SWAN  
GCP\_NA\_NNA\_PEI  
NONE

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
07-Jun-2011	Publish	Public	Keith SWAN	NNA	Keith SWAN		
09-Jan-2012	(Close by MREP)	Closed	Keith SWAN	NNA			

Comments

# Market Reply

Reference # : **NA-MREP-2012-00088** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

## General

Reply Type	: Final reply	TSB Issue or	: No
		Not	
Model	: Z51	TSB No.	:
Model year	: 2011	TSB Issue	: Date
System	: Chassis	Reason Why	: 1 -Appropriate field fix
		TSB Not	repair has been already
Engine type	: VQ35	Issued	guided.
		TSB	:
		Reminder	: Date
Transmission	: A		
type			
TR/PRO result	: Countermeasure		
Restricted	:		
Access			
C/M	: No		
Effectiveness			
Check			
C/M	:		
Effectiveness			
check			
Date			
Details of			
Concern			
1.how did the customer notice the incident			
Brake pedal sinks to 1" before floor before brakes apply			
2.What are the incident conditions			
3.Inspection done & result			

Technician confirmed customer's incident conditions of mushy pedal feel.  
TSM observed no warning lights illuminated on meter  
TSM inspected vehicle for visual signs of fluid leakage- None found  
TSM confirmed brake fluid level in reservoir was full.  
TSM inspected vehicle and duplicated the customers incident conditions with the engine running. (video)  
TSM observed the brake pedal would sink to approximately 25mm from floor before a solid pedal feel was felt.  
Application of the throttle when the brake pedal was fully depressed did not result in movement the vehicle in F or R.  
TSM recommended replacement of brake master cylinder and booster assembly. Incident remains after replacement.  
TSM confirmed technician did NOT use a pressure bleeder on the system when repairs were performed.  
TSM recommended replacement of ABS control unit - Incident conditions have been resolved.  
ABS controller collected for inspection by engineering.

#### Investigation Results & root causes

---

#### Investigation Results:

Supplier:Continental Teves Co. P/N: 47660-1SW0A  
P/Name: Actuator & ECU ASSY-ANTI SKID

Offline:27-Oct-2010 Sold: 4-Apr-2011 Incident:16-May-2011  
Milage: 946 Miles

Customer states the brake pedal feels mushy when braking at a stop.  
Incident was resolved after replacement of the ABS C/U.

- 1)At normal pressure : Leakage was found from NC valve for RR brake.
  - 2)Measurement of electric power of operating valve : Abnormal value was found from NC valve for RR brake. (Other valves were OK)
  - 3)ABS operation test : NG of reducing pressure performance on RR brake.
- Results, increasing pedal stroke was caused by faulty operation of NC valve (RR brake).

Some contamination might be in NC valve.

- 1) Cutting above N.C valve, take out internal parts from parts.
- 2) Cleaning internal parts and residual fluid by alcohol.  
Filtration of cleaning requid to collect the contamination.
- 3) Results, No contamination and no damage on internal parts.  
No contamination in the all path of ACTR.

Production date of valve : 2010/10/17 No abnormal condition (Passed on the

first try)

Production date of ACTR : 2010/10/23 No abnormal condition (Passed function test on the first try)

Root cause was not found from investigation results.

However, a contamination might cause the faulty operation of NC valve (RR brake).

1 To add alcohol cleaning of parts feeder : 2011.9

2 To increase frequency of facility cleaning (1 time/day to 3 times/day) :

2011.8.22

3)To feedback above countermeasures to "Cleaning planning Sheet" : 2011. 8.

27

4)To conduct special control of valve cleanness at plant QA.(tear down inspection) :8/22-9/end)

Root cause:

Internal leakage at NC valve due to contamination.

Conclusions

CONFIDENTIAL BUSINESS INFORMATION

## Related documents

Link to project : [NA-PRO-2011-01246](#)

2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller  
Priority: I -Important

## Related Documents

TR	Linked	Country	Author
<a href="#">NA-TR-2011-01016</a>			Charles SEYMOUR
	09-Jan-2012	U.S.A.	2011 Z51 Murano brake pedal sinks to floor, ABS Controller

ARCHIVE ARCHIVE ARCHIVE ALL ARCHIVE ARCHIVE ARCHIVE

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Coding block

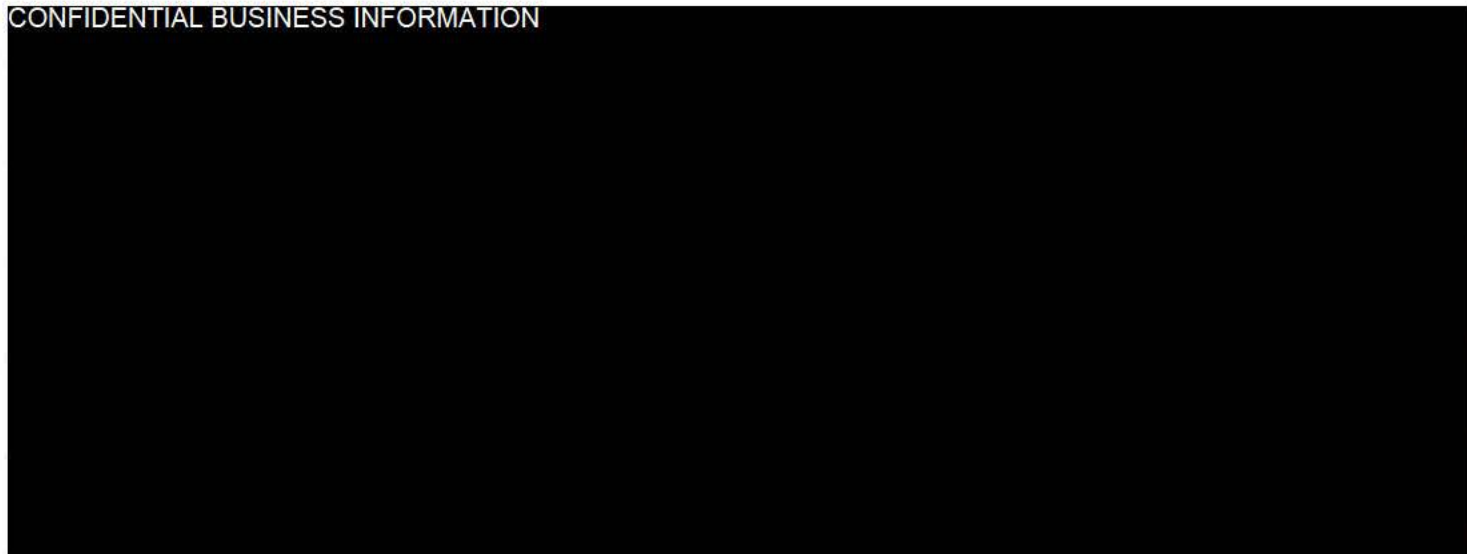
ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Unit code : DCH\_Brakes -Brakes PFP : 47660  
 SM category : BRA -ABS Brake System Additional PFP :  
 Cs code : DE -brake pedal height change Ct code : 32 -internal failure  
 DTC code : Warr group code : P5 -Anti-lock brake (ABS)  
 Phenomenon : Current 3MIS Value : 0.00

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

Countermeasures

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE



Parts info

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

	Part 1	Part 2	Part 3	Part 4	
Part name :					ARCHIVE
New # :					
Old # :	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Supplier :					
Lot # :					
Instruction old parts :	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE

	Part 5	Part 6	Part 7	Part 8	
Part name :	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
New # :					

Old #	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Supplier	:				
Lot #	:				
Instruction old: parts	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	Part 9	Part 10	Part 11	Part 12	
Part name	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
New #	:				
Old #	:				
Supplier	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Lot #	:				
Instruction old: parts	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE

### Workflow & History

#### Security

	Region	Organisation	Department	Name	Role
Responsible	:				
Sharing	:	No			

#### Admin only

Deadline date	:				
Archive Date	:				
Current user	:	Keith SWAN			
Authors	:	NONE			
Readers	:	GCP_NA_NNA_PEI			
		Keith SWAN			
		GCP_NA_NSC			
		GCP_PI			
		GCP_NONMARKET			
		NONE			

#### Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
09-Jan-2012	Request Approval	Awaiting Approval	Keith SWAN	NNA	Keith SWAN		
09-Jan-2012	Close as final	Closed	Keith SWAN	NNA			

Send Prior  
Notification to  
User 1  
User 2  
User 3  
User 4  
User 5  
User 6  
Pre-Notified

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# Technical Report

Reference # : **NA-TR-2011-01016** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : 2011 Z51 Murano brake pedal sinks to floor, ABS Controller

## General

Local reference#	: CS-11-081	AuthorNSC	: Charles SEYMOUR
Priority	: H -High Priority	Author organisation	: TSM
Request	: PI -Part Investigation	Originating country	: U.S.A.
Taskforce report	No	Destination region	: NA -North America
Model	: Z51	Restricted Access	:
Model year	: 2011	Source of information	: Vehicle Evaluation (w/o customer)
Priority & request comments	:	Customer impact	: H -High Impact
VIN	: JN8AZ1MW3BW [REDACTED]	F1 cause	:
Basic model	: MUR	Production date:	: 27-Oct-2010
Prefix	:	Sold date	: 4 -Apr-2011
Suffix	:	Engine type	: VQ35
Serial nr	:	Engine nr	: 454202
Vehicle type	:	Transmission type	: A
Plant code	: W	Transmission nr	:

## Related documents

Link to project : [NA-PRO-2011-01246](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller  
 Link to Market Reply : [NA-MREP-2012-00088](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

Related Documents

IPS	Status	Status Date	Target	Responsible
<a href="#">NA-IPS-2011-01208</a>	Closed	06-Jun-2011	-	

File Attachment	Attachment Type	Attachment description
-----------------	-----------------	------------------------

<a href="#">Open</a>	Vid	Video showing brake pedal sinking under moderate pressure. Engine running, fluid level full, no external fluid leaks visible
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Coding block

Unit code	: DCH_Brakes -Brakes	PFP	: 47660-1SW0B
SM category	: BRA -ABS Brake System	Additional PFP	:
Cs code	: DE -brake pedal height change	Ct code	: 32 -internal failure
DTC code	:	Warr group code	: P5 -Anti-lock brake (ABS)
Phenomenon	:	Current 3MIS Value	:
Tread code	: 03 -Brakes-Service	F, s, s, s	: No

Incident details

Incident mileage	: 946 Miles	Date of incident	: 16-May-2011
Country or town of incident	: Alexandria, VA		
Dealer code	: 3497	Dealer issue date	:
Dealer name	: Passport Nissan		
Customer complaint	: Customer states the brake pedal feels mushy when braking at a stop		
Details of incident	: 1.how did the customer notice the incident Brake pedal sinks to 1" before floor before brakes apply		
	2.What are the incident conditions		
	3.Inspection done & result Technician confirmed customer's incident conditions of mushy pedal feel. TSM observed no warning lights illuminated on meter TSM inspected vehicle for visual signs of fluid leakage- None found		

TSM confirmed brake fluid level in reservoir was full.  
 TSM inspected vehicle and duplicated the customers incident conditions with the engine running. (video)  
 TSM observed the brake pedal would sink to approximately 25mm from floor before a solid pedal feel was felt.  
 Application of the throttle when the brake pedal was fully depressed did not result in movement the vehicle in F or R.  
 TSM recommended replacement of brake master cylinder and booster assembly. Incident remains after replacement.  
 TSM confirmed technician did NOT use a pressure bleeder on the system when repairs were performed.  
 TSM recommended replacement of ABS control unit - Incident conditions have been resolved.  
 ABS controller collected for inspection by engineering.

Repairs done & results : 1. Repairs done  
 ABS controller replaced, brake system bled of air, fluid levels checked.  
 Brake pedal height is consistent with KGV  
 Vehicle road tested - OK

2. Results  
 Incident conditions resolved.

Vehicle details

VIN	: JN8AZ1MW3BW [REDACTED]	Engine type	: VQ35
Basic model	: MUR	Engine nr	: 454202
Prefix	:	Transmission	: A
Suffix	:	type	
Serial nr	:	Transmission	: nr
Vehicle type	:	Body type	:
Plant code	: W	Grade	:
Production date:	27-Oct-2010	Airbag	: YES
Sold date	: 4 -Apr-2011	ABS	: NO
Registration nr	:	Air conditioning:	NO
Customer name	: YEMANE MUSSENA	Color code	: AX5
DC Converter	:	Truck features	:
No	:	Inverter No	:
PBW ECU No	:	Battery Pack No	:
On Board Charge No	:	Electric PKB	:
Electric PKB	:	ECU No	:
ATR No	:	Electric Heater	:
		Unit No	:

Parts details

Part nr	Part name	Supplier	Quantity available
1.47660-1SW0B	ABS Controller/Actuator		1
2.			
3.			
4.			

### Estimates & Survey

NSC Estimates

Incident ratio	:	Cost of repair	:
Average mileage	:		

Survey

IQS4 question nr	:	RH05 - Ride&Handling- Brake pedal feels mushy/soft	JD Power	:
APEAL question nr	:	RHB03 -Brakes- Overall rating		

### Archive

Destroy date	:			
--------------	---	--	--	--

### Workflow & History

Security

Responsible	:	Region Organisation Department	Name	Role
Sharing	:	No		

Admin only

Deadline date	:	
Archive Date	:	07-Jun-2018
Current user	:	Keith SWAN
Authors	:	_____
Readers	:	Charles SEYMOUR GCP_NA_TSM_ALL Keith SWAN

Keith SWAN  
 GCP\_NA\_NSC  
 GCP\_NA\_PI  
 GCP\_PI\_MGR  
 GCP\_NA\_NONMARKET  
 GCP\_JP\_PI  
 GCP\_NA\_NNA\_PEI  
 GCP\_PI  
 GCP\_NONMARKET  
 NONE

—

Bring to the  
 attention of

User 1 : Keith SWAN(NA-NNA-PEI)  
 User 2 :  
 User 3 :  
 User 4 :  
 User 5 :  
 User 6 :

**Document History**

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
19-May-2011	Save	Draft	Charles SEYMOUR	TSM	Charles SEYMOUR		
27-May-2011	Request Approval	Awaiting Approval	Charles SEYMOUR	TSM	Jerry PUETZ NSC		
27-May-2011	Publish	Public	Jerry PUETZ NSC	TSM	Rob PAYNE		
31-May-2011	Reassign	Public	Rob PAYNE	NNA	Keith SWAN		
07-Jun-2011	(Link to Project from Project)	Linked	Keith SWAN	NNA	Keith SWAN		NA-PRO-2011-01246
09-Jan-2012	(close by MREP)	Closed	Keith SWAN	NNA			

# Incident Parts Shipment

Reference # : **NA-IPS-2011-01285** Status : **Closed**

Target : Responsible : (--)

Subject : 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

## General

Model : Z51

Comments :

## General

Link to project : [NA-PRO-2011-01246](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

## Related Documents

## Shipment information

### Shipment 1

Parts sent date : 06-Jun-2011 Parts received date : 09-Jul-2011

Shipping method : Air Airway bill nr : 797172036597

Courier company : FedEx

### Shipment 2

Parts sent date : Parts received date :

Shipping method : Airway bill nr :

Courier company :

### Shipment 3

Parts sent date : Parts received date :

Shipping : Airway bill nr :

method  
Courier  
company

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### Parts information

Final parts  
destination

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: Contact Person Kouichi Oyama  
Telephone Number 046-270-3859

Parts delivery  
address

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
: Company Name NISSAN MOTOR CO. Ltd.  
Street & number 560-2 Okatsukoku  
City Atsugi-shi  
District Yokohama-shi  
Postal Code 243-0192  
Country jp -Japan

Pickup Territory :

Purpose of parts:

Part nr	Part name	Supplier	Lot nr	Quantity requested	Quantity sent
1.47660-1SW0B	ABS Controller/Actuator			1	
2.					
3.					
4.					

VIN number

Repair date

PFP

Contact person

Dealer  
code

1.					
2.					
3.					
4.					
5.					
6.					

### Workflow & History

#### Security

Responsible : Region Organisation Department Name Role

Sharing : No

**Admin only**

Deadline date :

Archive Date :

Current user : Kouichi OYAMA

Authors : NONE

Readers : GCP\_USERS  
Keith SWAN  
GCP\_JP\_NML\_CEQ  
NONE

**Document History**

<b>Date</b>	<b>Action</b>	<b>New Status</b>	<b>By</b>	<b>Organisation</b>	<b>New Resp</b>	<b>Simulated by</b>	<b>Comments</b>
07-Jun-2011	Send Parts	Parts Sent	Keith SWAN	NNA	Kouichi OYAMA		
02-Aug-2011	Confirm Receipt	Closed	Kouichi OYAMA	NML			

# Incident Parts Shipment

Reference # : **NA-IPS-2011-01208** Status : **Closed**

Target : Responsible : (--)  
 Subject : 2011 Z51 Murano brake pedal sinks to floor, ABS Controller

## General

Model : Z51

Comments :

## General

Link to project : [NA-PRO-2011-01246](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

Link to Parent : [NA-TR-2011-01016](#) 2011 Z51 Murano brake pedal sinks to floor, ABS Controller

## Related Documents

## Shipment information

### Shipment 1

Parts sent date : 01-Jun-2011 Parts received date : 06-Jun-2011

Shipping method : Courier Airway bill nr : 7948 1678 6682

Courier company : FedEx

### Shipment 2

Parts sent date : Parts received date :

Shipping method : Airway bill nr :

Courier company :

### Shipment 3

Parts sent date : Parts received date :

Shipping method : Airway bill nr :  
Courier company :

### Parts information

Final parts destination : Contact Person Keith Swan  
Telephone Number

Parts delivery address : Company Name Nissan - Field Quality Center (MI)  
Street & number 39001 Sunrise Drive  
City Farmington Hills  
District Michigan  
Postal Code 48331  
Country us -U.S.A.

Pickup Territory :

Purpose of parts:

Part nr	Part name	Supplier	Lot nr	Quantity requested	Quantity sent
1.47660-1SW0B	ABS Controller/Actuator			1	1
2.					
3.					
4.					

VIN number	Repair date	PFP	Contact person	Dealer code
1.				
2.				
3.				
4.				
5.				
6.				

### Workflow & History

Security

Responsible : Region Organisation Department Name Role  
 Sharing : No

**Admin only**

Deadline date :  
 Archive Date :  
 Current user : Keith SWAN  
 Authors : NONE  
 Readers : GCP\_NA\_TSM\_ALL  
 Charles SEYMOUR  
 GCP\_USERS  
 GCP\_NA\_NNA\_PEL  
 NONE

**Document History**

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
27-May-2011	Save	Draft	Charles SEYMOUR	TSM	Charles SEYMOUR		
02-Jun-2011	Send Parts	Parts Sent	Charles SEYMOUR	TSM	Keith SWAN		
06-Jun-2011	Confirm Receipt	Closed	Keith SWAN	NNA			

# Preliminary Investigation Request

Reference # : **NA-PIR-2011-00309** Status : **Closed**

Target : Responsible : (--)  
 Subject : 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

## General

C-Speed : LT updated on :  
 Leadtime  
 Request type : PIR - Preliminary Investigation Request  
 Priority : I -Important Engine type : VQ35  
 Model : Z51 Transmission : A  
 type  
 Restricted : Res. : MFG  
 Access : Department  
 Joint Analysis : No Res. Company : NML -Nissan Motor Co.,Ltd  
 Market : North America

Concern details : Subject:  
 2011MY Murano (Z51) – Brake Pedal Sinks to Floor [ABS C/U]

**Incident Description:**  
 Customer states the brake pedal feels mushy when braking at a stop.

**Investigation Results:**  
 TSM Charlie Seymour performed the inspection with dealer technician:  
 1. Brake pedal feel was confirmed in customer vehicle (see video attached to GCAR). Brake pedal would sink to approximately 25mm from floor before a solid pedal was felt. Apply the throttle with the brake pedal fully depressed did not result in movement of the vehicle (brakes were engaged).  
 2. No warning lights were illuminated on meter  
 3. No evidence of fluid leakage was found.  
 4. Brake fluid level in master cylinder reservoir was full  
 5. TSM first recommended replacement of the master cylinder and booster assembly. Incident conditions remained after master cylinder and booster were replaced.  
 6. TSM then recommended replacement of the ABS C/U. Incident was resolved.  
 7. ABS C/U from vehicle VIN# JN8AZ1MW3BW [REDACTED] 6 was collected and subsequently shipped to NML for evaluation.

**Key Duplication Conditions:**  
 ABS C/U from incident vehicle was installed on a known good vehicle. Customer complaint conditions followed the incident part. See video attached to GCAR for incident duplication demonstration.

**Incident Magnitude:**  
 • Claim Count:  
 o Four customer complaints of "pedal to floor" or "low pedal"

were identified in the warranty data for PNC 47600.

o 2009MY = 3; 2011MY = 1

• Current 3MIS = 0.00%

**C-Start Date & Explanation:**

This is an "I" rank PIR; C-Speed does not apply.

**PIR % Coverage of Customer Concern:**

[1%] This PIR covers 1% of warranty related to PNC 47600 based on warranty verbatim analysis.

**Incident Part Shipment / Contact Info:**

Incident part shipped to the attention of Kouichi Oyama.

Shipment Date: 01-June-2011

Shipment Arrival: 13-June-2011

FedEx Tracking #: [REDACTED]

GCARS Tracking: NA-IPS-2011-01208

**Supporting Data Attachments:**

1. 11MY Murano (Z51) Brk Pedal Sink to Floor - Incident Summary (DOC)
2. Z51 Warranty Verbatim - Pedal to Floor Investigation (XLS)
3. Incident Duplication video (WMV)

TaskForce Report : No

PI Request : Please investigate the root cause of the ABS C/U allowing the brake pedal travel to approximately 25mm from the floor. Please provide investigation report, countermeasure details, estimation of countermeasure effectiveness and recurrence prevention plan (if applicable).

Pre-select Destination :

**Related documents**

Project Integration Candidate :

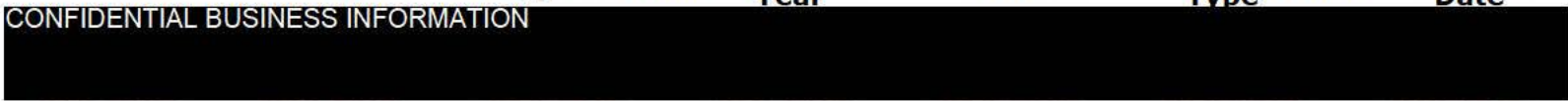
Link to project : [NA-PRO-2011-01246](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

**Related Documents**

CD	Status	Status Date	Target	Responsible	Related REQ#
<a href="#">JP-CD-2011-01134</a>	Closed	05-Oct-2011	-	-	NA-PIR-2011-00309
ADR	Status	Status Date	Target	Responsible	Related CD#
<a href="#">JP-ADR-2011-00558</a>	Closed	20-Dec-2011	-	-	JP-CD-2011-01134
File Attachment	Attachment Type	Attachment Description			
<a href="#">Open</a>	WD	11MY Murano (Z51) Brk Pedal Sinks to Floor - Incident Summary			
<a href="#">Open</a>	EX	Investigation result reply sheet (plant)			
<a href="#">Open</a>	TX	Password to open supplier report			
<a href="#">Open</a>	PDF	Part investigation report (supplier)			
<a href="#">Open</a>	Vid	Incident Duplication Video			
<a href="#">Open</a>	EX	Z51 Warranty Verbatim - Pedal to Floor Investigation			

**Adoption data**

**CD# Plant CM Type Model Model Year VIN VIN Type Brand Adoption Date**



**Coding block**

Unit code : DCH\_Brakes -Brakes PFP : 47660  
SM category : BRA -ABS Brake Additional PFP :  
System  
Cs code : DE -brake pedal Ct code : 32 -internal failure  
height change  
DTC code : Warr group : P5 -Anti-lock brake  
code (ABS)  
Phenomenon : Current 3MIS : 0.00  
Value

**Reply**

**Details**

Relevant for recurrence prevention : Yes

Investigation results :

Supplier:Continental Teves Co. P/N: 47660-1SW0A  
P/Name: Actuator & ECU ASSY-ANTI SKID

C/#: [Redacted] Offline:27-Oct-2010 Sold: 4-Apr-2011 Incident:16-May-2011

Milage: 946 Miles

Customer states the brake pedal feels mushy when braking at a stop.  
Incident was resolved after replacement of the ABS C/U.

- 1)At normal pressure : Leakage was found from NC valve for RR brake.
  - 2)Measurement of electric power of operating valve : Abnormal value was found from NC valve for RR brake. (Other valves were OK)
  - 3)ABS operation test : NG of reducing pressure performance on RR brake.
- Results, increasing pedal stroke was caused by faulty operation of NC valve (RR brake).

Some contamination might be in NC valve.

- 1) Cutting above N.C valve, take out internal parts from parts.
- 2) Cleaning internal parts and residual fluid by alcohol.  
Filtration of cleaning reiquid to collect the contamination.
- 3) Results, No contamination and no damage on internal parts.  
No contamination in the all path of ACTR.

Production date of valve : 2010/10/17 No abnormal condition (Passed on the first try)  
Production date of ACTR : 2010/10/23 No abnormal condition (Passed function test on the first try)

Root cause was not found from investigation results.  
However, a contamination might cause the faulty operation of NC valve (RR brake).

- 1 To add alcohol cleaning of parts feeder : 2011.9
- 2 To increase frequency of facility cleaning (1 time/day to 3 times/day) : 2011.8.22
- 3)To feedback above countermeasures to "Cleaning planning Sheet" : 2011. 8. 27
- 4)To conduct special control of valve cleanness at plant QA.(tear down inspection) :8/22 9/end)

Incident duplication results : Stroke increasing duplicated on simulator at only RR line test. (test of other line (FR,FL,RL) were OK)

Root cause : Internal leakage at NC valve due to contamination.

First Aid :  
Countermeasure

Temporary Countermeasure :

Permanent Countermeasure :

Conclusion : CONFIDENTIAL BUSINESS INFORMATION

Supplier 1 Request investigation? :

Yes

Supplier code : B220 - CONTINENTAL TEVES AG & CO.

Received at : 22-Aug-2011

supplier

Supplier reply date : 08-Sep-2011

Supplier 2 Request investigation? :

No

Is / Is not analysis

ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE ARCHIVE  
 What : Is not  
 Where :  
 When :  
 Extent :

**Workflow & History**

**Cross-regional**

PI Responsible :  
 person :

**Security**

Responsible	Region	Organisation	Department	Name	Role
Sharing	: No				

**Admin only**

Deadline date :  
 Archive Date :

Current user : Tom COLE  
 Authors : NONE

Readers : GCP\_NA\_NNA\_PEI  
 Keith SWAN  
 GCP\_PI  
 GCP\_NONMARKET  
 GCP\_NA\_NTCNA-AZ\_Quality and Reliability  
 GCP\_JP\_NML\_CEO  
 Takayuki MURAKAMI  
 GCP\_JP\_Kyushu\_Quality Assurance  
 Masanobu BABA  
 GCP\_JP\_Kyushu\_W32 Window  
 NONE

**Document History**

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
14-Jun-2011	Save	Draft	Keith SWAN	NNA	Keith SWAN		
14-Jun-2011	Request Approval	Awaiting Approval	Keith SWAN	NNA	Tom COLE		
15-Jun-2011	Assign	In Process	Tom COLE	NNA	Yoshiaki INOUE		
26-Jul-	Reassign	In Process	Yoshiaki	NML	Kouichi		

2011			INOUE		OYAMA		
01-Aug-2011	Reassign	In Process	Kouichi OYAMA	NML	Kiyoji NAKAYAMA		
01-Aug-2011	Assign	Assigned	Kiyoji NAKAYAMA	NML	Takayuki MURAKAMI		
06-Aug-2011	Assign to window	Assigned to window	Takayuki MURAKAMI	Kyushu	Masanobu BABA		
07-Aug-2011	Request Solution	Solution Development	Masanobu BABA	Kyushu	Syuuji MIENO		
13-Sep-2011	Reassign	Solution Development	Syuuji MIENO	Kyushu	Masanobu BABA		
14-Sep-2011	Request Approval	Solution Development	Masanobu BABA	Kyushu	Ryuichi SETOGUCHI	Masanobu BABA	
14-Sep-2011	Return Solution	Assigned to window	Masanobu BABA	Kyushu	Masanobu BABA		
14-Sep-2011	Return to previous window	Assigned	Masanobu BABA	Kyushu	Takayuki MURAKAMI		
17-Sep-2011	Request Approval	Assigned	Takayuki MURAKAMI	Kyushu	Yuuji HARARA	Takayuki MURAKAMI	
17-Sep-2011	Request Approval	Assigned	Takayuki MURAKAMI	Kyushu	Hiroyuki1 SUZUKI	Takayuki MURAKAMI	
17-Sep-2011	Close	In Process	Takayuki MURAKAMI	Kyushu	Kiyoji NAKAYAMA		
17-Sep-2011	Reassign	In Process	Kiyoji NAKAYAMA	NML	Yoshiaki INOUE		
18-Sep-2011	Reassign	In Process	Yoshiaki INOUE	NML	Kouichi OYAMA		
05-Oct-2011	Reassign	In Process	Kouichi OYAMA	NML	Tsutomu MIYASHITA		
05-Oct-2011	Close	Public	Tsutomu MIYASHITA	NML	Keith SWAN		
05-Oct-2011	Reassign	Public	Keith SWAN	NNA	Tom COLE		
06-Oct-2011	Close	Closed	Tom COLE	NNA			

Comments

Syuuji MIENO JP\_Kyushu\_W32 13-SEP-2011  
Window

Status Comment

Answer post W32  
Manager SETOGUCHI RYUICHI 2011/09/12  
Charge MIENO SYUUJI 2011/09/12

Send Prior

Notification to

User 1 : Tomotaka KAGEYAMA(NA-NNA-PEI)  
User 2 : David D'AMATO II(NA-NTCNA-AZ-Quality and Reliability)  
User 3 : Rob PAYNE(NA-NNA-PEI)  
User 4 :  
User 5 :  
User 6 :  
Pre-Notified : ()

### Countermeasure Data

Reference # : **JP-CD-2011-01134** Status : **Closed**

Target : Responsible : (--)

Subject : 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

#### Design note data

Model : Z51  
 C/M type : PCM -Production C/M  
 % Effectiveness :  
 Restricted :  
 Access :

Principle DN      D/N 2      D/N 3      D/N 4      D/N 5

DN # :  
 DN issue section :  
 DN issue date :  
 Planned adoption date :  
 Change of cost :  
 Change of weight :

Pre-select :  
 Destination :  
 PCN Judgement : No  
 Reason :

#### Related documents

Link to project : [NA-PRO-2011-01246](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

Link to Parent : [NA-PIR-2011-00309](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

#### Related Documents

ADR	Status	Status Date	Target	Responsible	Related CD#
<a href="#">JP-ADR-2011-00558</a>	Closed	20-Dec-2011	-	-	JP-CD-2011-01134

#### Adoption data

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
-----	-------	---------	-------	------------	-----	----------	-------	---------------



#### Coding block

Unit code : DCH\_Brakes -Brakes PFP : 47660

SM category : BRA -ABS Brake System Additional PFP :  
 Cs code : DE -brake pedal height change Ct code : 32 -internal failure  
 DTC code : Warr group : P5 -Anti-lock brake code (ABS)  
 Phenomenon : Current 3MIS : 0.00 Value

Countermeasure details

Root cause reference  
 Countermeasure: Details  
 Verification of C/M  
 Horizontal deployment model  
 Horizontal deployment (Q6)  
 Horizontal deployment  
 Recurrence prevention (Q5)  
 Recurrence prevention  
 Service notification  
 Corrective actions  
 Materials Load  
 Manufacturing method  
 Comments : Answer post W32  
 Manager SETOGUCHI RYUICHI 2011/09/12  
 Charge MIENO SYUUJI 2011/09/12

Countermeasure parts

Part 1 Part 2 Part 3 Part 4  
 Part name :

New part #	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Old part #	:					
Supplier	:					
Supersession instruction	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	Part 5	Part 6	Part 7	Part 8		
Part name	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
New part #	:					
Old part #	:					
Supplier	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Supersession instruction	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	Part 9	Part 10	Part 11	Part 12	ARCHIVE	ARCHIVE
Part name	:					
New part #	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Old part #	:					
Supplier	:					
Supersession instruction	: ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE

## Workflow & History

### Security

	Region	Organisation	Department	Name	Role
Responsible	:				
Sharing	:	No			

### Admin only

Deadline date	:					
Archive Date	:					
Current user	:	Tsutomu MIYASHITA				
Authors	:	NONE				
Readers	:	GCP_JP_Kyushu_Quality Assurance				
		Takayuki MURAKAMI				
		GCP_JP_NONMARKET				
		GCP_PI				
		GCP_JP_NML_CEO				
		GCP_NONMARKET				
		NONE				

### Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
17-Sep-2011	Save	Draft	Takayuki MURAKAMI	Kyushu	Takayuki MURAKAMI		
17-Sep-2011	Request Approval	Awaiting Approval	Takayuki MURAKAMI	Kyushu	RYUICHI SETOGUCHI	Takayuki MURAKAMI	
	Assign						

17-Sep-2011	to window	In Process	Takayuki MURAKAMI	Kyushu	Takayuki MURAKAMI	ARCHIVE	ARCHIVE	ARCHIVE
17-Sep-2011	Request Approval	In Process	Takayuki MURAKAMI	Kyushu	Yuuji HARARA	Takayuki MURAKAMI	ARCHIVE	ARCHIVE
17-Sep-2011	Request Approval	In Process	Takayuki MURAKAMI	Kyushu	Hiroyuki1 SUZUKI	Takayuki MURAKAMI	ARCHIVE	ARCHIVE
17-Sep-2011	Publish to PI	Public	Takayuki MURAKAMI	Kyushu	Kiyoji NAKAYAMA	ARCHIVE	ARCHIVE	ARCHIVE
17-Sep-2011	Request Approval	Public	Kiyoji NAKAYAMA	NML	Yoshiaki INOUE	ARCHIVE	ARCHIVE	ARCHIVE
18-Sep-2011	Request Approval	Public	Yoshiaki INOUE	NML	Kouichi OYAMA	ARCHIVE	ARCHIVE	ARCHIVE
05-Oct-2011	Request Approval	Public	Kouichi OYAMA	NML	Tsutomu MIYASHITA	ARCHIVE	ARCHIVE	ARCHIVE
05-Oct-2011	Close	Closed	Tsutomu MIYASHITA	NML	ARCHIVE	ARCHIVE	ARCHIVE	ARCHIVE
Send Prior Notification to								
User 1	:							
User 2	:							
User 3	:							

# Adoption Data Request

Reference # : **JP-ADR-2011-00558** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

## General

Adoption Type : Part adoption  
 Model : Z51  
 Request for :  
 Relevant plants : Kyushu (Takayuki MURAKAMI)

## Background

Countermeasure: **【源流対策】**  
 details  
 1) 工程内設備のパ-ツィ-ダ-のアルコール清掃追加。・・・(製造 2011.9～)  
 2) 工程内清掃頻度変更。・・・清掃頻度 1回/日 → 3回/日 (始業時・昼専終了時・深夜勤務開始時に実施、製造 2011.8.22～)  
 3) 上記対策を決めごと『定期清掃計画表改定』に落とし込み。・・・(製造 2011. 8. 27)  
**【流出対策】**  
 1) パルブ 清浄度 特別重点管理実施・・・パルブ 清浄度検査実施後の分解観察、異物混入有無確認を実施。  
 (工場品質 8/22～9/末) 現在 (9/4) までの実施結果、パルブ 内部への異物混入は検出されてなく継続実施中。

Principle DN      D/N 2      D/N 3      D/N 4      D/N 5

DN # :  
 DN issue date :

## Part / Unit C/M details request

C/M lot nr :  
 Unit model :  
 C/M unit nr :  
 C/M date of part / unit :  
 RAN nr :

## Related documents

Link to project : [NA-PRO-2011-01246](#)      2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

Link to Parent : [JP-CD-2011-01134](#)      2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

## Adoption data

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
-----	-------	---------	-------	------------	-----	----------	-------	---------------

Workflow & History

Security

Region Organisation Department Name Role  
Responsible :

Sharing : No

Admin only

Deadline date :

Archive Date :

Current user : Takayuki MURAKAMI

Authors : NONE

Readers : GCP\_JP\_Kyushu\_Quality Assurance

Takayuki MURAKAMI

GCP\_PI

GCP\_NONMARKET

GCP\_JP\_Kyushu\_W32 Window

NONE

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
17-Sep-2011	Save	Draft	Takayuki MURAKAMI	Kyushu	Takayuki MURAKAMI		
17-Sep-2011	Request Adoption	Adoption Requested	Takayuki MURAKAMI	Kyushu	Takayuki MURAKAMI		
17-Sep-2011	Reassign	Adoption Requested	Takayuki MURAKAMI	Kyushu	Syuuji MIENO		
16-Dec-2011	Reassign	Adoption Requested	W32 IKOU	Kyushu	Takayuki MURAKAMI		
20-Dec-2011	Close	Closed	Takayuki MURAKAMI	Kyushu			

## Adoption Data

Reference # : **JP-AD-2011-01842** Status : **Closed**

Target : Responsible : (--)  
 Subject : 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

### General

Plant : Kyushu

C/M type	Model	Model Year	VIN nr	VIN type / line #	Brand	Adoption date
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### Related documents

Link to project : [NA-PRO-2011-01246](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

Link to Parent : [JP-ADR-2011-00558](#) 2011MY Z51 (Murano) - Brake pedal sinks to floor, ABS Controller

### Workflow & History

#### Security

Region	Organisation	Department	Name	Role
Responsible	:			

Sharing : No

#### Admin only

Deadline date :

Archive Date :

Current user : Takayuki MURAKAMI

Authors : NONE

Readers : GCP\_PI  
 GCP\_JP\_NONMARKET

GCP\_JP\_Kyushu\_Quality Assurance

Takayuki MURAKAMI

NONE

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
20-Dec-2011	Close	Closed	Takayuki MURAKAMI	Kyushu			



# CARS / RAPIDA

## Project Report

**Project : NA-PRO-2013-04322      D40 ABS Actuator - Brake MIL on**

### Contents:

PRO	Status	Status	Date	Target	Responsible	
	<a href="#">NA-PRO-2013-04322</a>	Closed		17-Apr-2014	-	
MREP	Status	Status	Date	Target	Responsible	
	<a href="#">NA-MREP-2014-01638</a>	Closed		17-Apr-2014	-	
IPS	Status	Status	Date	Target	Responsible	
	<a href="#">NA-IPS-2014-00149</a>	Closed		10-Apr-2014	-	
	<a href="#">NA-IPS-2013-03622</a>	Closed		30-Jan-2014	-	
REQ	Status	Status	Date	Target	Responsible	
	<a href="#">NA-PIR-2014-00064</a>	Closed			-	
CD	Status	Status	Date	Target	Responsible	Related REQ#
	<a href="#">NA-CD-2014-01375</a>	Closed		01-Apr-2014	-	NA-PIR-2014-00064
AD	Status	Status	Date	Target	Responsible	
	<a href="#">NA-AD-2014-01502</a>	Closed		02-Apr-2014	-	

RENAULT NISSAN CONFIDENTIAL C

Project

Reference # : **NA-PRO-2013-04322** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : D40 ABS Actuator - Brake MIL on

General

Priority : S -Standard Taskforce : No  
 Priority explanation : Restricted Access  
 Priority justification :  
 Model : D40 Local reference : nr  
 Model year : 2013; 2014 Engine type :  
 System : Chassis Transmission :  
 Facilitator : type  
 Q-Start Date : Q1 End date :  
 Q-Start Time : Q1 End Time :  
 Q2 End Date :  
 Q2 End Time :  
 Start & End time Format: HH:MM (where applicable)

Related documents

Related Documents

MREP	Status	Status Date	Target	Responsible	
<a href="#">NA-MREP-2014-01638</a>	Closed	17-Apr-2014	-		
IPS	Status	Status Date	Target	Responsible	
<a href="#">NA-IPS-2014-00149</a>	Closed	10-Apr-2014	-		
<a href="#">NA-IPS-2013-03622</a>	Closed	30-Jan-2014	-		
REQ	Status	Status Date	Target	Responsible	
<a href="#">NA-PIR-2014-00064</a>	Closed		-		
CD	Status	Status Date	Target	Responsible	Related REQ#
<a href="#">NA-CD-2014-01375</a>	Closed	01-Apr-2014	-		NA-PIR-2014-00064
File Attachment	Attachment Type	Attachment Description			Parent Reference
<a href="#">Open</a>	EX	3N1CE2CP6EL [REDACTED] 8D			NA-PIR-2014-00064
<a href="#">Open</a>	PDF	1N6AD0ER2DN [REDACTED] 8D			NA-PIR-2014-00064
<a href="#">Open</a>	PDF	1N6AD0CW2DN [REDACTED] 8D			NA-PIR-2014-00064
<a href="#">Open</a>	PDF	1N6AD0ER1DN [REDACTED] 8D			NA-PIR-2014-00064
<a href="#">Open</a>	PDF	1N6AD0EV6DN [REDACTED] 8D			NA-PIR-2014-00064
<a href="#">Open</a>	PDF	1N6AD0ERXD [REDACTED] 8D			NA-PIR-2014-00064
<a href="#">Open</a>	PDF	1N6AD0EV7DN [REDACTED] 8D			NA-PIR-2014-00064

<a href="#">Open</a>	EX	Warranty data as of 1-21-2014	NA-PIR-2014-00064
<a href="#">Open</a>	EX	Supplier Summary	NA-PIR-2014-00064
<a href="#">Open</a>	EX	Warranty data for incident parts	NA-IPS-2013-03622
<a href="#">Open</a>	WD	Incident Summary	NA-PIR-2014-00064
AD	Status	Status Date	Target Responsible
<a href="#">NA-AD-2014-01502</a>	Closed	02-Apr-2014	-

Executive Summary Images

Picture #1 :  
Picture #2 :

**Adoption data**

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
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Incident details

Date of first incident :

Is / Is not analysis

What : Is Is not

Where :

When :

Extent :

Customer complaint : Cust Comm: C S THAT THE ABS SLIP LIGHTS ARE INTERMITTENTLY COMING ON PLEASE ADVISE  
Tech Comm: 1343 CUST STATES THE ABS AND SLIP LIGHT ARE INTERMITTENTLY COMING ON TEST DROVE AND LIGHTS CAME ON DURING TEST

Details of concern : Brake MIL on, not due to fluid leak.

Incident conditions : For the 2013-14MY vehicles, the average mileage of the 37 ABS incidents was 2,631 miles with an average of 46 Days in Service.

Investigation results : Incident parts have been collected for detail analysis by the supplier.

Repairs done & results : The Dealer replaced the ABS unit to resolve the incident.

**Reported VINs: 0**

VIN	TR/FIR Source	Production Date	Sold Date	Incident Date	Mileage	Engine	Transmission
-----	---------------	-----------------	-----------	---------------	---------	--------	--------------

-> No reported VINs

### Parts details

Part nr	Part name	Supplier	Quantity available
1.476609BFxx	ACTUATOR ASSY-ANTISKID	CONTINENTAL TEVES INC	10
2.			
3.			
4.			

### Warranty data

Concern ranking: 61	Number of buy-back cases : unk
Total warranty cost : \$40,557	Number of claims : 37
Cost per claim : \$1,096	Estimated incident ratio : <b>CONFIDENTIAL BUSINESS INFORMATION</b>

Analysis conditions :

**CONFIDENTIAL BUSINESS INFORMATION**

Relevant PNC- : 47600-STP; 47600-STO  
Tag Pairs  
E.g.: 79905-KQ7 (separate with ';')

### Warranty reduction data

	Warranty cost	Number of claims
Total	:	
Sold	:	
Selling	:	
1 yr total	:	
1 yr sold	:	
1 yr selling	:	

### Detailed warranty data

Model :	Type :
Engine :	Transmission :
Cost per vehicle :	Incident ratio :

### Survey related

IOS4 question nr : DEXP06: Brakes Performance	JD Power :
APEAL question nr :	

### Archive

FES engineer :  
 File location / :  
 number  
 Project start date :  
 Close date : 16-Apr-2014  
 Last :  
 correspondence  
 Destroy date :

### Coding block

Unit code : MLN\_D40 -Model PFP : 47660  
 Line, North  
 America, D40  
 SM category : BRA -ABS Brake Additional PFP :  
 System  
 Cs code : HC -warning light on Ct code : 32 -internal failure  
 DTC code : C1126;C1109;C1145 Warr group : P5 -Anti-lock brake  
 code (ABS)  
 Phenomenon : Current 3MIS : 0.0673  
 Value

### Workflow & History

#### Security

Responsible	Region	Organisation	Department	Name	Role
:					

Sharing : No

#### Admin only

Deadline date :  
 Archive Date : 17-Apr-2017  
 Current user : Garey GUZMAN  
 Authors : NONE  
 Readers : GCP\_NA\_NNA\_PEI  
 Garey GUZMAN  
 GCP\_PI  
 GCP\_NONMARKET  
 None  
 NONE

#### Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
12-Dec-2013	Save	Draft	Garey GUZMAN	NNA	Garey GUZMAN		
29-Jan-2014	Publish	Public	Garey GUZMAN	NNA	Garey GUZMAN		
30-Jan-	(Set Active		Garey		Garey		

2014	by Request)	Active	GUZMAN NNA	GUZMAN
17-Apr-2014	(Close by MREP)	Closed	Garey GUZMAN NNA	

Comments

# Market Reply

Reference # : **NA-MREP-2014-01638** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : D40 ABS Actuator - Brake MIL on

## General

Reply Type : Final reply TSB Issue or : No Not

Model : D40 TSB No. :  
 Model year : 2013; 2014 TSB Issue :  
 Date

System : Chassis Reason Why : 1 -Appropriate field fix TSB Not repair has been already Issued guided.

Engine type : TSB :  
 Reminder  
 Date

Transmission : type

TR/PRO result : Countermeasure

Restricted : Access

C/M : No Effectiveness Check

C/M : Effectiveness check Date

Details of Concern  
 Brake MIL on, not due to fluid leak.

### Investigation Results & root causes

-----  
 Investigation Results:

1N6ADOER8DN [REDACTED] NTF

1N6ADOCU1D [REDACTED] NTF

1N6ADOER2DN [REDACTED] PCU03 VO8 cannot keep the low side short to GND for the duration of the active test. The failure was reproduced on the PCU03 tester. Part will be shipped to supplier for further info. Please see attached report for additional info.S: PCU03 VALVEL G-S.

1N6BDOCT5D [REDACTED] NTF

1N6ADOCW2DN [REDACTED] NTF (

1N6ADOER1DN [REDACTED] No communication at room temperature and 300mA consumption. Error/Error\_N signals are not correct. Reset\_N stays HIGH until IGN off (OK). No activity on CLKOUT.

VCC3 -> GND = 65.5 ohms

VCC5 -> GND = 1.01 kohms

VCCA -> GND = 53.7 ohms

VCCA = 1.95V

VCC3 = 3.3V

VCC5 = 5V The MCU PEC3 was removed from the PCB and the failure mode reproduced in a socket tester.

1N6ADOEV6DN [REDACTED] was received with CAN\_BUS\_OFF fault code. The unit passes functional testing. Cracks were found on the outside of the ECU enclosure. Close with customer-handling.

1N6ADOERXD [REDACTED] Misdiagnosis (Externally triggered, all tests done also 6 hrs in AAET (Automated Active Endurance Test) without any failure entries, visual inspection showed no abnormalities. " Unit was received due to no comm with abs module and speedo not opp. Freeeframe was analyzed and undervoltage occurred 2 times 27 ignitions cycles ago.

1N6ADOEV7DN [REDACTED] NTF

1N6ADOEV7DN [REDACTED] Failure code Mcu\_wrong\_int\_or\_reset\_source was found in the EEPROM. At room temperature intermittently the fault code is reproduced. Internal visual inspection showed no abnormalities. Voltage levels (VCCA, VCC3, VCC5) are correct. The component was tested in the socket tester and intermittently failure codes OS\_fatal\_error and PCU\_watchdog were reproduced too. PEC3 to be shipped to TI for further analysis.

-----  
Root cause:

1N6ADOEV7 [REDACTED] Metal\_Void fab defectivity

3N1CE2CP6E [REDACTED] Vacuum nozzle design

1N6ADOER2 [REDACTED] Fab – random defectivity – poly particle

1N6ADOER1 [REDACTED] Metal\_Void fab defectivity

Conclusions

[D40-47660-100]

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Related documents

Link to project : [NA-PRO-2013-04322](#)

D40 ABS Actuator - Brake MIL on  
Priority: S -Standard

Related Documents

Coding block

Unit code : MLN\_D40 -Model  
Line, North  
America, D40

PFP : 47660

SM category : BRA -ABS Brake  
System

Additional PFP :

Cs code : HC -warning light on Ct code : 32 -internal failure  
DTC code : C1126;C1109;C1145 Warr group : P5 -Anti-lock brake  
code (ABS)  
Phenomenon : Current 3MIS : 0.0673  
Value

## Countermeasures

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## Parts info

	Part 1	Part 2	Part 3	Part 4
Part name :				

New # :  
Old # :  
Supplier :  
Lot # :  
Instruction old:  
parts

	Part 5	Part 6	Part 7	Part 8
Part name :				
New # :				
Old # :				
Supplier :				
Lot # :				
Instruction old: parts				

	Part 9	Part 10	Part 11	Part 12
Part name :				
New # :				
Old # :				
Supplier :				
Lot # :				
Instruction old: parts				

## Workflow & History

### Security

	Region	Organisation	Department	Name	Role
Responsible :					
Sharing :	No				

### Admin only

Deadline date :  
Archive Date :  
Current user : Jay GADOMSKI  
Authors : NONE  
Readers : GCP\_NA\_NNA\_PEI  
Garey GUZMAN  
GCP\_NA\_NSC  
GCP\_PI  
GCP\_NONMARKET  
NONE

GCP\_JP\_NMEF\_ALL

Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
09-Apr-2014	Save	Draft	Garey GUZMAN	NNA	Garey GUZMAN		
17-Apr-2014	Request Approval	Awaiting Approval	Garey GUZMAN	NNA	Jay GADOMSKI		
17-Apr-2014	Close as final	Closed	Jay GADOMSKI	NNA			

Send Prior

Notification to

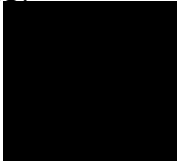
- User 1 :
- User 2 :
- User 3 :
- User 4 :
- User 5 :
- User 6 :
- Pre-Notified : ()

# Incident Parts Shipment

Reference # : **NA-IPS-2014-00149** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : D40 ABS Actuator

## General

Model : D40  
 Comments : This IPS documents shipment of Warranty Return parts to the Supplier for further investigation. The parts are from the following VINs:  
 1N6AD0EV7D  
 1N6AD0EV7D



## General

Link to project : [NA-PRO-2013-04322](#) D40 ABS Actuator - Brake MIL on

## Related Documents

## Shipment information

Shipment 1  
 Parts sent date : 23-Jan-2014 Parts received date : 03-Feb-2014

Shipping method : Courier Airway bill nr :  
 Courier company : FedEx

Shipment 2  
 Parts sent date : Parts received date :

Shipping method : Airway bill nr :  
 Courier company :

Shipment 3



**Security**

Region Organisation Department Name Role

Responsible :

Sharing : No

**Admin only**

Deadline date :

Archive Date :

Current user : Garey GUZMAN

Authors : NONE

Readers : GCP\_NA\_NNA\_PEI  
Garey GUZMAN  
GCP\_USERS  
NONE

**Document History**

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
22-Jan-2014	Save	Draft	Garey GUZMAN	NNA	Garey GUZMAN		
10-Apr-2014	Send Parts	Parts Sent	Garey GUZMAN	NNA	WRC / Keith Damon Continental	Garey GUZMAN	
10-Apr-2014	Confirm Receipt	Closed	Garey GUZMAN	NNA			

# Incident Parts Shipment

Reference # : **NA-IPS-2013-03622** Status : **Closed**

Target : Responsible : (--)  
Subject : D40 ABS Actuator

## General

Model : D40

Comments : This IPS documents shipment of Warranty Return parts to the Supplier for further investigation. The parts are from the following VINs:  
1N6AD0CW2D  
1N6AD0ER1DN  
1N6AD0ER2DN  
1N6AD0ER8DN  
1N6AD0EV6DN  
1N6BD0CT5DN  
1N6AD0CU1DN  
1N6AD0ERXDN



## General

Link to project : [NA-PRO-2013-04322](#) D40 ABS Actuator - Brake MIL on

## Related Documents

File	Attachment	Type	Attachment description
<a href="#">Open</a>	EX		Warranty data for incident parts

## Shipment information

### Shipment 1

Parts sent date : 12-Dec-2013      Parts received : 18-Dec-2013  
date

Shipping method : Courier      Airway bill nr :  
Courier company : FedEx

### Shipment 2

Parts sent date :      Parts received :

date

Shipping method :  
Courier company :  
Airway bill nr :

Shipment 3  
Parts sent date :  
Parts received date :

Shipping method :  
Courier company :  
Airway bill nr :

Parts information

Final parts destination : Contact Person WRC  
Telephone Number 248-393-5852

Parts delivery address : Company Name Continental Automotive  
Street & number One Continental Drive  
City Auburn Hills  
District MI  
Postal Code 483269280  
Country us -U.S.A.

Pickup Territory :

Purpose of parts: Further investigation

Part nr	Part name	Supplier	Lot nr	Quantity requested	Quantity sent
1.476609BFxx	ACTUATOR ASSY-ANTISKID	CONTINENTAL TEVES INC			8
2.					
3.					
4.					

VIN number	Repair date	PFP	Contact person	Dealer code
1.				
2.				

- 3.
- 4.
- 5.
- 6.

## Workflow & History

### Security

Responsible : Region Organisation Department Name Role

Sharing : No

### Admin only

Deadline date :  
 Archive Date :

Current user : Garey GUZMAN

Authors : NONE

Readers : GCP\_NA\_NNA\_PEI  
 Garey GUZMAN  
 GCP\_USERS  
 NONE

### Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
12-Dec-2013	Save	Draft	Garey GUZMAN	NNA	Garey GUZMAN		
30-Jan-2014	Send Parts	Parts Sent	Garey GUZMAN	NNA	WRC/Continental	Garey GUZMAN	
30-Jan-2014	Confirm Receipt	Closed	Garey GUZMAN	NNA			

# Preliminary Investigation Request

Reference # : **NA-PIR-2014-00064** Status : **Closed**

Target : Responsible : (--)  
Subject : D40 ABS Actuator - Brake MIL on

## General

C-Speed Leadtime	:	LT updated on	:
Request type	:	PIR - Preliminary Investigation Request	
Priority	:	I -Important	Engine type :
Model	:	D40	Transmission :
Restricted Access	:		type
Joint Analysis	:	No	Res. : MFG
	:		Department
	:		Res. Company : NNA -Nissan North America, Inc.
	:		Market : North America

Concern details : Incident Description:  
 Cust Comm: C S THAT THE ABS SLIP LIGHTS ARE INTERMITTENTLY COMING ON PLEASE ADVISE  
 Tech Comm: 1343 CUST STATES THE ABS AND SLIP LIGHT ARE INTERMITTENTLY COMING ON TEST DROVE AND LIGHTS CAME ON DURING TEST  
 The customer comments consistently reference MIL on.

Investigation Results:  
 Warranty claim information stated that the MIL was on for the incident parts. The parts were shipped to the supplier for more detailed investigation and teardown.

Incident Magnitude:  
 • D40 Claim Count (PFP 47660), as of 1-21-2014



Contact Name:  
 Tyler Si (NNA-C POE)

Incident Part Shipment Info:  
 Incident parts were shipped directly to the Supplier (Continental) per POE via NA-IPS-2013-03622 (8 parts received 12-18-13 per Supplier) and NA-IPS-2014-00149 (2 parts shipped 1-23-2014).

Attachments List:  
 1. Warranty data for the incident.

TaskForce Report : No

PI Request : • Please determine root cause and issue a permanent

countermeasure.

- Please provide countermeasure effectiveness and recurrence prevention plan.
- Please provide adoption timing and VIN for C/M.

Pre-select :  
Destination

### Related documents

Project :  
Integration  
Candidate

Link to project : [NA-PRO-2013-04322](#) D40 ABS Actuator - Brake MIL on

### Related Documents

CD	Status	Status Date	Target	Responsible	Related REQ#
<a href="#">NA-CD-2014-01375</a>	Closed	01-Apr-2014		-	NA-PIR-2014-00064
File Attachment	Attachment Type	Attachment Description			
<a href="#">Open</a>	EX	3N1CE2CP6EL3 [REDACTED] 8D			
<a href="#">Open</a>	PDF	1N6AD0ER2DM [REDACTED] 1 8D			
<a href="#">Open</a>	PDF	1N6AD0CW2DM [REDACTED] 8D			
<a href="#">Open</a>	PDF	1N6AD0ER1DM [REDACTED] 8D			
<a href="#">Open</a>	PDF	1N6AD0EV6DM [REDACTED] 8D			
<a href="#">Open</a>	PDF	1N6AD0ERXDM [REDACTED]			
<a href="#">Open</a>	PDF	1N6AD0EV7DM [REDACTED]			
<a href="#">Open</a>	EX	Warranty data as of 1-21-2014			
<a href="#">Open</a>	EX	Supplier Summary			
<a href="#">Open</a>	WD	Incident Summary			

### Adoption data

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
-----	-------	---------	-------	------------	-----	----------	-------	---------------

CONFIDENTIAL BUSINESS INFORMATION

### Coding block

Unit code : MLN\_D40 -Model PFP : 47660  
 Line, North America, D40

SM category : BRA -ABS Brake System Additional PFP :

Cs code : HC -warning light on Ct code : 32 -internal failure  
 DTC code : C1126;C1109;C1145 Warr group : P5 -Anti-lock brake  
 code (ABS)

Phenomenon : Current 3MIS : 0.0673  
 Value

### Reply

### Details

Relevant for recurrence prevention : Yes

Investigation results : 1N6AD0ER8DN [REDACTED] NTF

1N6AD0CU1DN7 [REDACTED] NTF

1N6AD0ER2DN [REDACTED] PCU03 VO8 cannot keep the low side short to GND for the duration of the active test. The failure was reproduced on the PCU03 tester. Part will be shipped to supplier for further info. Please see attached report for additional info.S: PCU03 VALVEL G-S.

1N6BD0CT5 [REDACTED] NTF

1N6AD0CW2DN [REDACTED] NTF (

1N6AD0ER1DN [REDACTED] 1 No communication at room temperature and 300mA consumption. Error/Error\_N signals are not correct. Reset\_N stays HIGH until IGN off (OK). No activity on CLKOUT.

VCC3 -> GND = 65.5 ohms

VCC5 -> GND = 1.01 kohms

VCCA -> GND = 53.7 ohms

VCCA = 1.95V

VCC3 = 3.3V

VCC5 = 5V The MCU PEC3 was removed from the PCB and the failure mode reproduced in a socket tester.

1N6AD0EV6DN [REDACTED] Unit was received with CAN\_BUS\_OFF fault code. The unit passes functional testing. Cracks were found on the outside of the ECU enclosure. Close with customer-handling.

1N6AD0ERXDN [REDACTED] Misdiagnosis (Externally triggered, all tests done also 6 hrs in AAET (Automated Active Endurance Test) without any failure entries, visual inspection showed no abnormalities. " Unit was received due to no comm with abs module and speedo not opp. Freeeframe was analyzed and undervoltage occurred 2 times 27 ignitions cycles ago.

1N6AD0EV7DN7 [REDACTED] NTF

1N6AD0EV7DN [REDACTED] Failure code Mcu\_wrong\_int\_or\_reset\_source was found in the EEPROM. At room temperature intermittently the fault code is reproduced. Internal visual inspection showed no abnormalities. Voltage levels (VCCA, VCC3, VCC5) are correct. The component was tested in the socket tester and intermittently failure codes OS\_fatal\_error and PCU\_watchdog were reproduced too. PEC3 to be shipped to TI for further analysis.

Incident duplication results :

Root cause : 1N6AD0EV7D [REDACTED] : Metal\_Void fab defectivity

3N1CE2CP6E [REDACTED] Vacuum nozzle design

1N6AD0ER2D [REDACTED] : Fab – random defectivity – poly particle

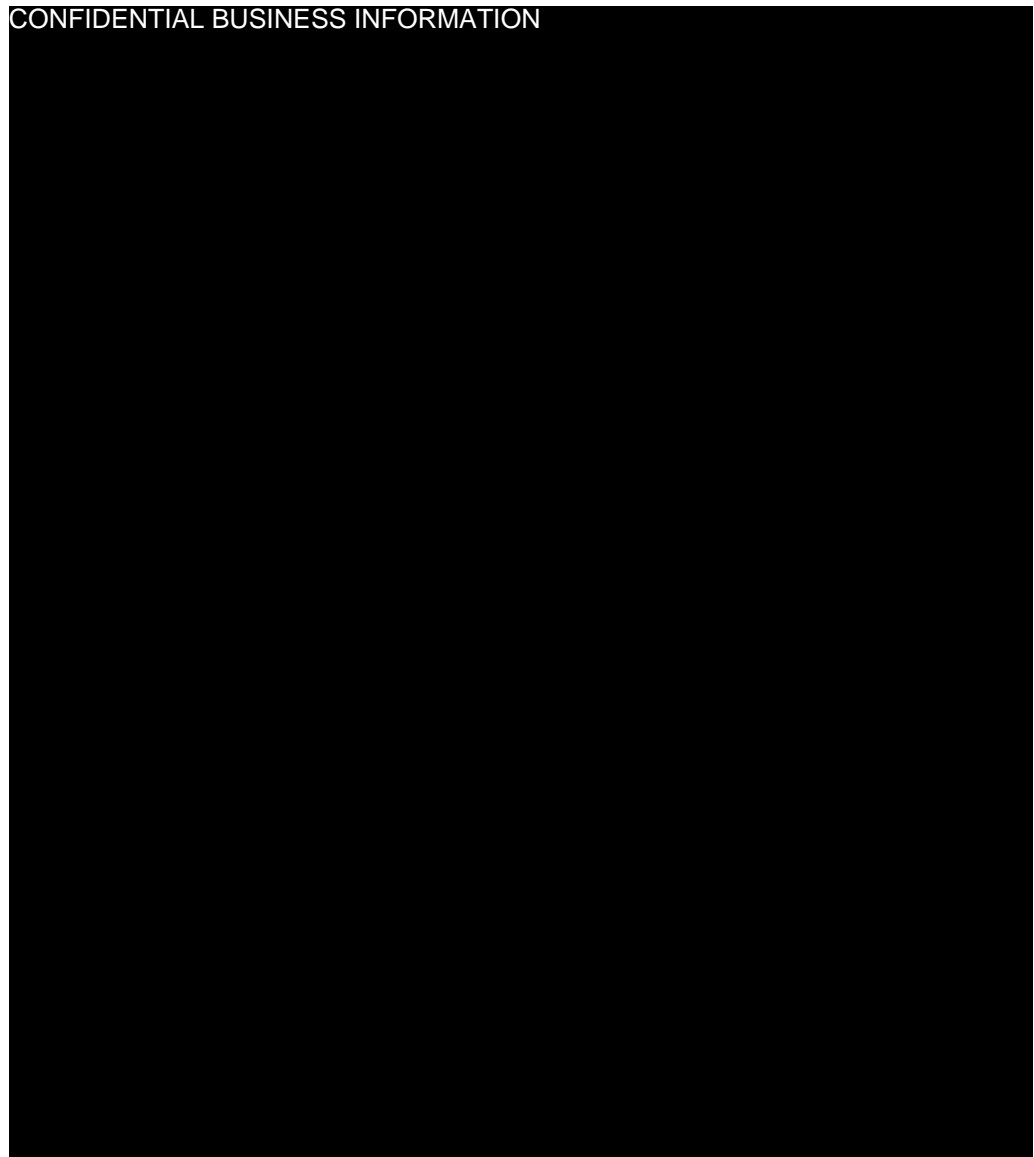
1N6AD0ER1D [REDACTED] : Metal\_Void fab defectivity

First Aid :  
Countermeasure

Temporary :  
Countermeasure

Permanent :  
Countermeasure

Conclusion :



Supplier 1  
Request :  
investigation?

Supplier 2  
Request :  
investigation?  
Is / Is not analysis

	Is	Is not
What :		
Where :		
When :		

Extent :

### Workflow & History

#### Cross-regional

PI Responsible :  
person

#### Security

Responsible : Region Organisation Department Name Role

Sharing : No

#### Admin only

Deadline date :  
Archive Date :

Current user : Garey GUZMAN

Authors : NONE

Readers : GCP\_NA\_NNA\_PEI  
Garey GUZMAN  
GCP\_NONMARKET  
GCP\_PI  
Larry BENNETT  
GCP\_NA\_NNA-C\_PQA  
Tyler SI  
GCP\_NA\_NNA-C\_PQE  
NONE

#### Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
29-Jan-2014	Save	Draft	Garey GUZMAN	NNA	Garey GUZMAN		
30-Jan-2014	Request Approval	Awaiting Approval	Garey GUZMAN	NNA	Jay GADOMSKI		
30-Jan-2014	Assign	Assigned	Jay GADOMSKI	NNA	Larry BENNETT		
31-Jan-2014	Assign to window	Assigned to window	Larry BENNETT	NNA-C	Tyler SI		
02-Apr-2014	Return to previous window	Assigned	Tyler SI	NNA-C	Larry BENNETT		
04-Apr-2014	Close	Public	Larry BENNETT	NNA-C	Garey GUZMAN		
09-Apr-2014	Close	Closed	Garey GUZMAN	NNA			

#### Comments

Send Prior  
Notification to  
User 1 :  
User 2 :  
User 3 :  
User 4 :  
User 5 :  
User 6 :  
Pre-Notified : ()

## Countermeasure Data

Reference # : **NA-CD-2014-01375** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : D40 ABS Actuator - Brake MIL on

### Design note data

Model : D40  
 C/M type : PCM -Production C/M  
 % Effectiveness : 85  
 Restricted :  
 Access

	Principle DN	D/N 2	D/N 3	D/N 4	D/N 5
DN # :					
DN issue section :					
DN issue date :					
Planned adoption date :					
Change of cost :					
Change of weight :					

Pre-select :  
 Destination  
 PCN Judgement : No  
 Reason :

### Related documents

Link to project : [NA-PRO-2013-04322](#) D40 ABS Actuator - Brake MIL on  
 Link to Parent : [NA-PIR-2014-00064](#) D40 ABS Actuator - Brake MIL on

### Related Documents

AD	Status	Status Date	Target	Responsible
<a href="#">NA-AD-2014-01502</a>	Closed	02-Apr-2014		-

### Adoption data

CD#	Plant	CM Type	Model	Model Year	VIN	VIN Type	Brand	Adoption Date
-----	-------	---------	-------	------------	-----	----------	-------	---------------

**CONFIDENTIAL BUSINESS INFORMATION**

### Coding block

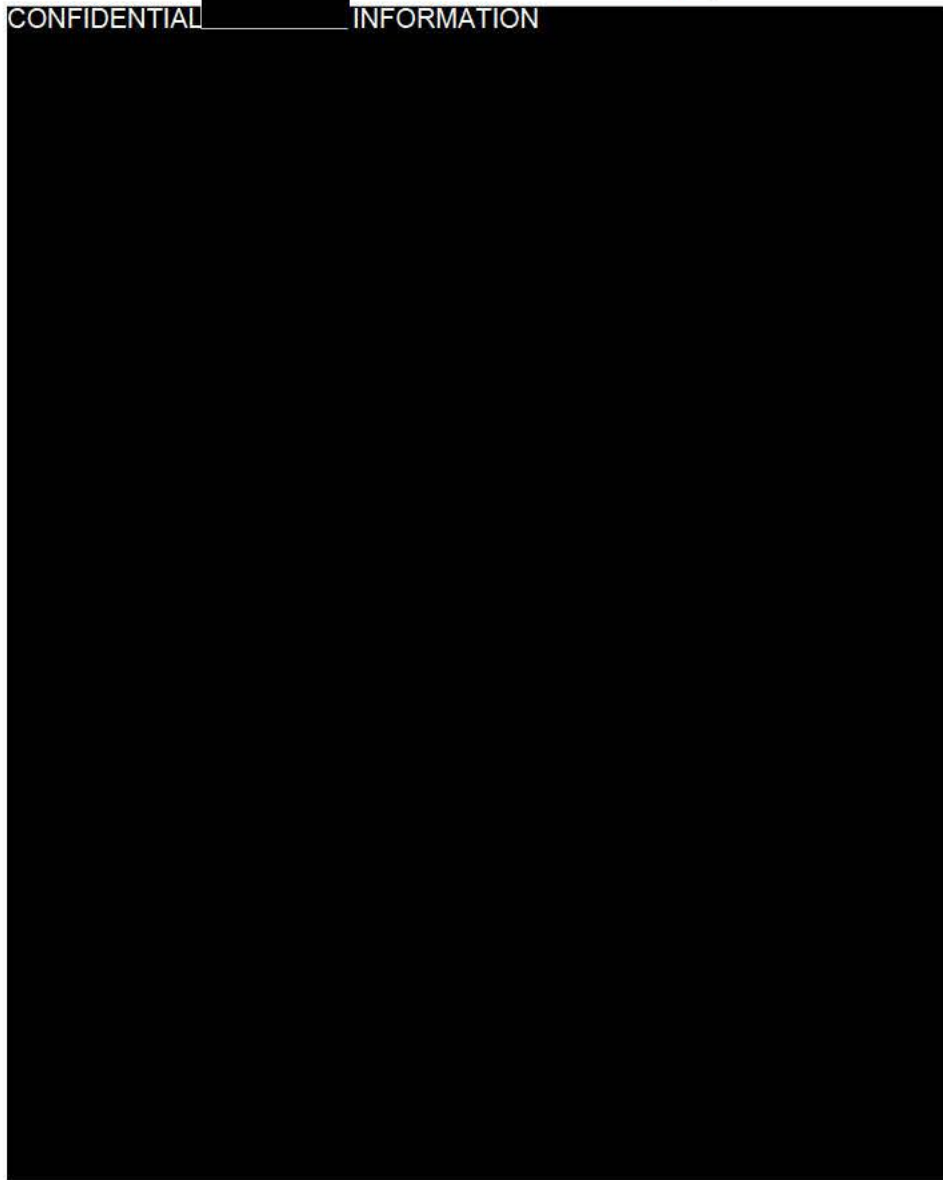
Unit code : MLN\_D40 -Model Line, North PFP : 47660

SM category : America, D40  
: BRA -ABS Brake System Additional PFP :  
Cs code : HC -warning light on Ct code : 32 -internal failure  
DTC code : C1126;C1109;C1145 Warr group : P5 -Anti-lock brake  
code (ABS)  
Phenomenon : Current 3MIS : 0.0673  
Value

Countermeasure details

Root cause reference : 1N6AD0EV7 Metal\_Void fab defectivity  
3N1CE2CP6 Vacuum nozzle design  
1N6AD0ER2 Fab - random defectivity - poly  
particle  
1N6AD0ER1 Metal\_Void fab defectivity

Countermeasure:  
Details



Verification of C/M : CONFIDENTIAL BUSINESS INFORMATION



Horizontal deployment model :

Horizontal deployment planned completion date(Q6) :

Horizontal deployment :

Recurrence prevention planned completion date(Q5) :

Recurrence prevention :  
 - PFMEA  
 - Control plan file review & update  
 - Work instruction update

Service notification :

Corrective actions :

Materials :  
 Load :  
 Manufacturing method :

Comments :

**Countermeasure parts**

	Part 1	Part 2	Part 3	Part 4
Part name :				
New part # :				
Old part # :				
Supplier :				
Supersession instruction :				

	Part 5	Part 6	Part 7	Part 8
Part name :				
New part # :				

Old part # :  
 Supplier :  
 Supersession :  
 instruction

	Part 9	Part 10	Part 11	Part 12
Part name :				
New part # :				
Old part # :				
Supplier :				
Supersession :				
instruction				

## Workflow & History

### Security

	Region	Organisation	Department	Name	Role
Responsible :					
Sharing :	No				

### Admin only

Deadline date :  
 Archive Date :

Current user : Tyler SI  
 Authors : NONE  
 Readers : GCP\_NONMARKET  
 GCP\_PI  
 Tyler SI  
 GCP\_NA\_NNA-C\_PQE  
 NONE

### Document History

Date	Action	New Status	By	Organisation	New Resp	Simulated by	Comments
01-Apr-2014	Save	Draft	Tyler SI	NNA-C	Tyler SI		
01-Apr-2014	Close	Closed	Tyler SI	NNA-C			

Send Prior Notification to  
 User 1 :  
 User 2 :  
 User 3 :

## Adoption Data

Reference # : **NA-AD-2014-01502** Status : **Closed**  
 Target : Responsible : (--)  
 Subject : D40 ABS Actuator - Brake MIL on

### General

Plant : Canton

C/M type	Model	Model Year	VIN nr	VIN type / line #	Brand	Adoption date
1. Production C/M	D40	2014	1N6AD0CU0E [REDACTED]			02-Apr-2014
2.						
3.						
4.						
5.						

### Related documents

- Link to project : [NA-PRO-2013-04322](#) D40 ABS Actuator - Brake MIL on
- Link to Parent : [NA-CD-2014-01375](#) D40 ABS Actuator - Brake MIL on

### Workflow & History

#### Security

Responsible : Region Organisation Department Name Role  
 Sharing : No

#### Admin only

Deadline date :  
 Archive Date :  
 Current user : Tyler SI  
 Authors : NONE  
 Readers : GCP\_NA\_NNA-C\_PQE  
 Tyler SI  
 GCP\_PI  
 GCP\_NA\_NONMARKET

NONE

Document History

<b>Date</b>	<b>Action</b>	<b>New Status</b>	<b>By</b>	<b>Organisation</b>	<b>New Resp</b>	<b>Simulated by</b>	<b>Comments</b>
02-Apr-2014	Save	Draft	Tyler SI	NNA-C	Tyler SI		
02-Apr-2014	Close	Closed	Tyler SI	NNA-C			

## REQUEST #8 RESPONSE

### NHTSA

8. Describe all assessments, analyses, tests, test results, studies, surveys, simulations, investigations, inquiries and/or evaluations (collectively, "actions") that relate to, or may relate to, the alleged defect in the subject vehicles that have been conducted, are being conducted, are planned, or are being planned by, or for, Nissan. For each such action, provide the following information:
- a. Action title or identifier;
  - b. The actual or planned start date;
  - c. The actual or expected end date;
  - d. Brief summary of the subject and objective of the action;
  - e. Engineering group(s)/supplier(s) responsible for designing and for conducting the action; and
  - f. A brief summary of the findings and/or conclusions resulting from the action.

For each action identified, provide copies of all documents related to the action, regardless of whether the documents are in interim, draft, or final form. Organize the documents chronologically by action.

### Nissan answer

- a. Z51 Spongy Brake Investigation
- b. 2017/06/05
- c. TBD  
Currently under investigation.
- d. Please see the action flow.
- e. Local Dealer technician, Nissan Brake Design Engineers and Quality Group, Continental (Supplier)
- f. Please see Appendix C for preliminary investigation results







**DRAFT**

**NISSAN GROUP  
OF NORTH AMERICA**



# ABS Valve Removal Process

Technical Compliance  
July 10, 2017











**END**

# **Appendix**



