

**NISSAN GROUP
OF NORTH AMERICA**



Nissan North America, Inc.

One Nissan Way
Franklin, TN 37067

Mailing Address:
PO Box 685001
Franklin, TN 37068

September 21, 2018

Mr. Jeff Giuseppe
Associate Administrator for Enforcement
National Highway Traffic Safety Administration
Attn: Recall Management Division (NVS-215)
Room W48-302
1200 New Jersey Avenue, SE
Washington, D.C. 20590

Dear Mr. Giuseppe:

We are transmitting the enclosed supplement to the Defect Information Report filed on September 18, 2018. This supplement updates section 6, Chronology of Principle Events.

Very truly,

A handwritten signature in black ink, appearing to read "Derek Latta".

Derek Latta
Manager,
Technical Compliance

Encl.

DEFECT INFORMATION REPORT

1. Vehicle Manufacturer:

Nissan North America, Inc., Canton Plant
Nissan North America, Inc., Smyrna Plant

Manufacturer of the subject equipment:

ADVICS North America, Inc.
1650 Kingsview Drive
Lebanon, Ohio 45036

James Cole
Corporate Quality Manager
513-696-5467 (Direct Line)
513-696-5451 (Fax)
859-512-0338 (Cell)

Anti-Lock Brake System (ABS) actuator part numbers:

<u>Model Year/Make Model</u>	<u>Part Description</u>	<u>Part Number</u>
MY2016-2017 Nissan Maxima	ABS ACTUATOR ASSY	47660-4RB1C
MY2015-2017 Nissan Murano	ABS ACTUATOR ASSY - AWD	47660-9UD6D
MY2015-2017 Nissan Murano	ABS ACTUATOR ASSY - FWD	47660-9UD6C
MY2017-2018 Nissan Pathfinder	ABS ACTUATOR ASSY	47660-9PP1B
MY2017-2018 Nissan Pathfinder	ABS ACTUATOR ASSY	47660-9PP1D
MY2017 INFINITI QX60	ABS ACTUATOR ASSY	47660-9PP1B
MY2017 INFINITI QX60	ABS ACTUATOR ASSY	47660-9PP1D
Brake Fluid	Brake Fluid (DOT 3 Type 12oz)	999MP-AA410P

2. Units Potentially Involved:

Production period of affected vehicles involved:

<u>Model Year/Make Model</u>	<u>Dates of Manufacture</u>
MY2016-17 Nissan Maxima	February 10, 2015 (SOP) through January 5, 2017 (02/10/15 to 08/19/16 were subject to 16V-636)
MY2015-17 Nissan Murano	August 22, 2014 (SOP) through February 24, 2017 (08/22/14 to 08/19/16 were subject to 16V-636)
MY2017-18 Nissan Pathfinder	April 20, 2016 (SOP) through January 9, 2017
MY2017 INFINITI QX60	May 18, 2016 (SOP) through January 9, 2017

The affected ABS actuators (described in Section 5 below) are unique to the makes and models that were manufactured during the above dates. No other Nissan or INFINITI vehicles are affected.

3. Total Number of Units Potentially Involved:

Approximately 215,124 vehicles are subject to this recall, as shown in the table below. This includes vehicles previously remedied under 16V-636 that will be remedied again with a different replacement part, and vehicles subject to 16V-636 that have not yet been remedied:

<u>Model Year/Make Model</u>	<u>Number of Vehicles</u>
MY2016-2017 Nissan Maxima	65,722
MY2015-2017 Nissan Murano	86,901
MY2017-2018 Nissan Pathfinder	46,232
MY2017 INFINITI QX60	16,269

4. Percentage of Vehicles Estimated to Actually Contain the Defect:

56 %¹

5. Description of the Defect:

The subject vehicles are equipped with ADVICS ABS actuators equipped with an oil seal that may have been manufactured out of specification. More specifically, die temperature variation may have affected oil seal hardness. Coupled with insufficient lubrication, this could cause the oil seal to wear prematurely. If this occurs, the ABS warning lamp will continuously illuminate on the instrument panel to warn the driver. However, if the warning is ignored and the vehicle continues to be operated in this condition, the brake fluid leak may potentially create an electrical short in the actuator circuit, which in rare instances, may lead to a fire.

6. Chronology of Principal Events:

January 2018 – Nissan received a report of an illuminated ABS warning lamp on a vehicle previously remedied under 16V-636 recall.

February 2018 to March 2018 – Nissan began an investigation into the issue together with the supplier (ADVICS), and Nissan began active field monitoring. The returned part exhibited a tear in the oil seal, however, the cause of this was undetermined and the condition could not be duplicated on new production parts.

April 2018 to May 2018 – Nissan began a parts collection activity, and began comparing oil seals from returned actuators to the seal from the actuator that malfunctioned.

June 2018 to July 2018 – Nissan performed a number of durability performance tests on returned parts to help determine the scope of parts that may have been affected.

¹ Out of the 215,124 vehicles that will have their serial numbers inspected on the ABS actuator, Nissan anticipates approximately 120,469 of them will need to the ABS Actuator replaced.

July 2018 to August 2018 – Durability performance testing identified two potential factors affecting the subject ABS actuator performance. More specifically, the hardness of the seal coupled with lack of lubrication around the seal was affecting seal durability.

Nissan then investigated which production specifications of the oil seal could have affected seal hardness and lack of lubrication. Nissan found that the actuator oil seal die temperature was affecting oil seal hardness wear resistance.

Nissan is not aware of any injuries or fatalities attributed to this condition. Nissan received seventy-nine (79) warranty returned parts potentially exhibiting the subject condition. There are nine (9) incidents of vehicle thermal damage potentially attributable to the condition. None of the incidents appeared to involve damage to outside structures.

August 30, 2018 - Based on the foregoing, Nissan decided to conduct a safety recall campaign to remedy the vehicles outlined above.

7. Description of Corrective Action:

Owners of the subject vehicles will be notified beginning on October 15, 2018. Dealers will be notified on September 25, 2018. The dealer will inspect the serial number of the ABS actuator on affected vehicles, and if it is within the affected range, the dealer will replace the ABS actuator with a new part at no cost to the owner.

Nissan will include a statement in the Part 577 owner notification concerning reimbursement for the cost of obtaining a pre-notification remedy for the subject vehicles that are no longer under warranty. The statement will be excluded for the subject vehicles that are still under warranty. Your office will be provided with a copy of the Part 577 owner notification for approval.

8. Copy of Notices:

Copies of all notices will be provided to NHTSA as they become available.