Part 573 Safety Recall Report 19V-060

Manufacturer Name : Honda (American Honda Motor Co.)
Submission Date : JAN 29, 2019
NHTSA Recall No. : 19V-060
Manufacturer Recall No. : N3X, P3W

Manufacturer Information :

Manufacturer Name : Honda (American Honda Motor Co.)
Address : 1919 Torrance Blvd.
Torrance CA 90501
Company phone : 1-888-234-2138

Population :

Number of potentially involved : 437,032
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2016-2016 Acura MDX
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.

The number of affected unit is 78,987.

Production Dates : AUG 27, 2014 - JUN 20, 2016
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 : 2017-2017 Acura MDX
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific

fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.

The number of affected units is 69,431

Production Dates : AUG 06, 2015 - OCT 26, 2017

VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 3 : 2017-2017 Acura TLX

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.
The number of affected units is 11,246.

Production Dates : JUL 15, 2016 - MAR 27, 2017

VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 4 : 2018-2018 Acura MDX

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles

equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.
The number of affected units is 40,252.

Production Dates : APR 26, 2017 - AUG 02, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 5 : 2015-2015 Acura TLX
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.
The number of affected units is 37,308.

Production Dates : SEP 17, 2013 - SEP 22, 2015
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 6 : 2016-2016 Acura TLX
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.
The number of affected units is 17,584.

Production Dates : SEP 24, 2015 - JUL 15, 2016
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 7 : 2018-2018 Acura TLX
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.
The number of affected units is 20,399.

Production Dates : MAR 28, 2017 - MAR 23, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 8 : 2019-2019 Acura TLX
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.

The number of affected units is 15,714.

Production Dates : MAR 23, 2018 - DEC 03, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 9 : 2015-2015 Honda Accord

Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.
The number of affected units is 48,465.

Production Dates : MAR 11, 2014 - AUG 05, 2015
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 10 : 2016-2016 Honda Accord
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The production range reflects all possible vehicles that could potentially experience the problem.

Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur.
The number of affected units is 44,227.

Production Dates : DEC 10, 2014 - JUN 25, 2016
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 11 : 2017-2017 Honda Accord
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : The recall population was determined based on manufacturing records. The

Descriptive Information :	production range reflects all possible vehicles that could potentially experience the problem. Vehicles affected by this recall were equipped with a 3.5 L V6 engine and a specific fuel pump module. Other model years of the listed vehicles, as well as other trims of the listed vehicles during the affected model years, are not included in the recall because they were not equipped with a 3.5 L V6 engine and the specific fuel pump module. The recall only includes certain 2019 model year Acura TLX vehicles equipped with a 3.5 L V6 engine because, starting with vehicles produced on December 11, 2018, fuel injection (FI)-ECU software no longer supported a low-voltage fuel pump operating mode necessary for the defect to occur. The number of affected units is 53,419.
Production Dates :	JUN 25, 2016 - SEP 28, 2017

VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect :	Sodium particulates contained in low quality fuels can adhere to certain internal components in the fuel pump, increasing electrical and mechanical resistance and reducing fuel pump performance.
FMVSS 1 :	NR
FMVSS 2 :	NR
Description of the Safety Risk :	If a vehicle is operated in high ambient temperature, reduced fuel pump performance can restrict vehicle acceleration and/or cause an engine stall, which increases the risk of a crash.
Description of the Cause :	NR
Identification of Any Warning that can Occur :	NR

Supplier Identification :

Component Manufacturer

Name :	KYOSAN DENSO Manufacturing Kentucky, LLC
Address :	260 Cramer Creek Ct. Dublin 43017
Country :	United States

Chronology :

January 2016

Honda received the first report of an engine stall. As the frequency of claims was minimal, Honda decided to continue monitoring the market.
August to September 2017
After receipt of additional engine stall reports, Honda launched an investigation. Failed return parts were sent to the fuel pump supplier and the supplier was able to re-create the engine stalling condition with operating the fuel pump in 10 V mode. Fuel pump operating voltage can vary between 10 V-13 V.
October to November 2017
Sodium deposits were found on the brush and commutator components in the failed fuel pumps.
December 2017 to June 2018
Honda conducted additional tests and determined the source of sodium was from low quality fuels. No correlation between fuel and sodium content was found in any particular geographic region. Re-creation tests confirmed that fuel containing greater than one part per million of sodium could result in restricted vehicle acceleration and/or engine stall.
July to November 2018
Continued testing confirmed that fuel pump operation in 10 V mode allowed for the accumulation of sodium in the fuel pump, which resulted in increased mechanical and electrical resistance and reduction in fuel pump performance. Depending on ambient temperatures, reduced fuel pump performance can lead to restricted/rough acceleration and/or an engine stall. The spark in higher voltage operation in the 11.2 V-13 V range was also confirmed to dissolve sodium accumulation, allowing for full fuel pump rotation speed and flow rate.
December 11, 2018
Fuel injection ECUs with software that eliminated low voltage operating modes began to be used in mass production.
January 22, 2019
Honda determined that a defect related to motor vehicle safety existed and decided to conduct a safety recall.
As of January 22, 2019, Honda has received 731 warranty claims, 102 field reports, and no reports of crashes or injuries related to this issue.

Description of Remedy :

Description of Remedy Program :	Registered owners of all affected vehicles will be contacted by mail and asked to take their vehicle to an authorized Acura or Honda automobile dealer, as applicable. The dealer will update the FI-ECU with software programming that eliminates 10V fuel pump operation and the potential for sodium accumulation, for free. If the vehicle owner informs the dealer of an engine stall occurrence, and the engine stall is confirmed by a diagnostic scan, the fuel pump will also be replaced for free. Owners who have paid to have these repairs completed at their own expense will be eligible for reimbursement, according to the recall reimbursement plan on file with NHTSA.
How Remedy Component Differs from Recalled Component :	Fuel pump module, fuel pump, part number: Acura TLX and Honda Accord - 17045-T2B-A10, Acura MDX - 17045-TZ5-A10
Identify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule :	Dealer notification is scheduled to begin on or about January 30, 2019. Owner notification is scheduled to begin on or about March 25, 2019.
Planned Dealer Notification Date :	JAN 30, 2019 - NR
Planned Owner Notification Date :	MAR 25, 2019 - NR

* NR - Not Reported