Part 573 Safety Recall Report 21V-587

Manufacturer Name : Subaru of America, Inc.
Submission Date : JUL 29, 2021
NHTSA Recall No. : 21V-587
Manufacturer Recall No. : WRG-21

Manufacturer Information :

Manufacturer Name : Subaru of America, Inc.
Address : One Subaru Drive
Camden NJ 08103
Company phone : 844-373-6614

Population :

Number of potentially involved : 165,026
Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2018-2019 Subaru BRZ
Vehicle Type : LIGHT VEHICLES
Body Style : 2-DOOR
Power Train : GAS
Descriptive Information : -Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density and a fuel pump controller. For the affected vehicles, this combination may lower the resistance to interference between the impeller and the body of the fuel pump.

-The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records.

-How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have a lower impeller density and are used on vehicles equipped with a FPC.

The recall population includes certain 2018-2019 model year BRZ 2-Door vehicles. The number of potentially affected BRZ 2-Door vehicles is 2,409.

Production Dates : APR 06, 2018 - NOV 06, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 :	2018-2020 Subaru Impreza
Vehicle Type :	LIGHT VEHICLES
Body Style :	4-DOOR
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density. If the surface of the lower density impeller is exposed to solvent drying for longer periods of time, it may develop fine cracks. These cracks may lead to excessive fuel absorption, resulting in impeller deformation. Over time, the impeller may become deformed enough to interfere with the body of the fuel pump, potentially causing the low pressure fuel pump to become inoperative. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have an impeller produced under both conditions, lower density and exposure to solvent drying for longer periods of time. The recall population includes certain 2018-2020 model year Impreza 4-Door vehicles. The number of potentially affected Impreza 4-Door vehicles is 8,525.
Production Dates :	MAY 07, 2018 - MAY 31, 2019
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 3 :	2018-2020 Subaru Impreza
Vehicle Type :	LIGHT VEHICLES
Body Style :	STATIONWAGON
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density. If the surface of the lower density impeller is exposed to solvent drying for longer periods of time, it may develop fine cracks. These cracks may lead to excessive fuel absorption, resulting in impeller deformation. Over time, the impeller may become deformed enough to interfere with the body of the fuel pump, potentially causing the low pressure fuel pump to become inoperative. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have an impeller produced under both conditions, lower density and exposure to solvent drying for longer periods of time. The recall population includes certain 2018-2020 model year Impreza Stationwagon vehicles. The number of potentially affected Impreza Stationwagon vehicles is 19,580.
Production Dates :	MAY 03, 2018 - MAY 31, 2019
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 4 :	2019-2020 Subaru Ascent
Vehicle Type :	LIGHT VEHICLES
Body Style :	SUV
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density. If the surface of the lower density impeller is exposed to solvent drying for longer periods of time, it may develop fine cracks. These cracks may lead to excessive fuel absorption, resulting in impeller deformation. Over time, the impeller may become deformed enough to interfere with the body of the fuel pump, potentially causing the low pressure fuel pump to become inoperative. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have an impeller produced under both conditions, lower density and exposure to solvent drying for longer periods of time. The recall population includes certain 2019-2020 model year Ascent SUV vehicles. The number of potentially affected Ascent SUV vehicles is 22,831.
Production Dates :	JAN 14, 2019 - MAY 20, 2019
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 5 :	2018-2020 Subaru Legacy
Vehicle Type :	LIGHT VEHICLES
Body Style :	4-DOOR
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density. If the surface of the lower density impeller is exposed to solvent drying for longer periods of time, it may develop fine cracks. These cracks may lead to excessive fuel absorption, resulting in impeller deformation. Over time, the impeller may become deformed enough to interfere with the body of the fuel pump, potentially causing the low pressure fuel pump to become inoperative. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have an impeller produced under both conditions, lower density and exposure to solvent drying for longer periods of time. The recall population includes certain 2018-2020 model year Legacy 4-Door vehicles. The number of potentially affected Legacy 4-Door vehicles is 15,257.
Production Dates :	JUN 25, 2018 - SEP 27, 2019
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 6 :	2018-2020 Subaru Outback
Vehicle Type :	LIGHT VEHICLES
Body Style :	SUV
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density. If the surface of the lower density impeller is exposed to solvent drying for longer periods of time, it may develop fine cracks. These cracks may lead to excessive fuel absorption, resulting in impeller deformation. Over time, the impeller may become deformed enough to interfere with the body of the fuel pump, potentially causing the low pressure fuel pump to become inoperative. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have an impeller produced under both conditions, lower density and exposure to solvent drying for longer periods of time. The recall population includes certain 2018-2020 model year Outback SUV vehicles. The number of potentially affected Outback SUV vehicles is 80,148.
Production Dates :	JUN 25, 2018 - SEP 27, 2019
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 7 :	2018-2019 Toyota 86
Vehicle Type :	LIGHT VEHICLES
Body Style :	2-DOOR
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density and a fuel pump controller. For the affected vehicles, this combination may lower the resistance to interference between the impeller and the body of the fuel pump. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have a lower impeller density and are used on vehicles equipped with a FPC. The recall population includes certain 2018-2019 model year Toyota 86 2-Door vehicles. The number of potentially affected Toyota 86 2-Door vehicles is 3,660.
Production Dates :	APR 06, 2018 - NOV 05, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 8 :	2018-2018 Subaru Forester
Vehicle Type :	LIGHT VEHICLES
Body Style :	SUV
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density and a fuel pump controller. For the affected vehicles, this combination may lower the resistance to interference between the impeller and the body of the fuel pump. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have a lower impeller density and are used on vehicles equipped with a FPC. The recall population includes certain 2018 model year Forester SUV vehicles. The number of potentially affected Forester SUV vehicles is 2,010.
Production Dates :	APR 20, 2018 - AUG 07, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 9 :	2018-2019 Subaru WRX
Vehicle Type :	LIGHT VEHICLES
Body Style :	4-DOOR
Power Train :	GAS
Descriptive Information :	-Description of the issue: The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density and a fuel pump controller. For the affected vehicles, this combination may lower the resistance to interference between the impeller and the body of the fuel pump. -The basis for how the recall population was determined: Potentially affected vehicles were identified using vehicle production records and supplier part production records. -How the recalled products differ from products that were not included in the recall: Included in this recall are vehicles potentially equipped with a low pressure fuel pump manufactured between March 2018 and March 2019 which may have a lower impeller density and are used on vehicles equipped with a FPC. The recall population includes certain 2018-2019 model year WRX 4-Door vehicles. The number of potentially affected WRX 4-Door vehicles is 10,606.
Production Dates :	APR 20, 2018 - NOV 01, 2018
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect :	The affected vehicles may be equipped with a low pressure fuel pump produced during a specific timeframe that may include an impeller which has been manufactured with a lower density. If the surface of the lower density impeller is exposed to solvent drying for longer periods of time, it may develop fine cracks. These cracks may lead to excessive fuel absorption, resulting in impeller deformation. Over time, the impeller may become deformed enough to interfere with the body of the fuel pump, potentially causing the low pressure fuel pump to become inoperative. For included vehicle models where longer solvent drying time has not been identified as a cause, functionality of the fuel pump controller (FPC) combined with a lower density impeller may lower the resistance to interference between the impeller and the body of the fuel pump, potentially causing the low pressure fuel pump to become inoperative.
FMVSS 1 :	NR
FMVSS 2 :	NR
Description of the Safety Risk :	If the low pressure fuel pump becomes inoperative, the check engine warning light or malfunction indicator light may illuminate, and/or the engine may run rough. In the worst case, an inoperative fuel pump may result in the engine stalling without the ability to restart the vehicle, increasing the risk of

	a crash.
Description of the Cause :	Certain impeller production lots may have a lower impeller density. If the surface of the lower density impeller is exposed to solvent drying for longer periods of time, it may develop fine cracks. Low pressure fuel pumps manufactured between March 2018 and March 2019 may have an impeller produced under both conditions, resin density and exposure to solvent drying for longer periods of time. If equipped, the fuel pump controller can adjust the rotational speed of the fuel pump impeller. This variability in rotational speed could affect the interference point between the impeller and the body of the fuel pump on certain vehicles.
Identification of Any Warning that can Occur :	Illumination of the check engine warning light or malfunction indicator light, and/or rough engine running may occur.

Involved Components :

Component Name 1 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022CA000

Component Name 2 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022AJ140

Component Name 3 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022FL02A

Component Name 4 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022FL02B

Component Name 5 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022AN00A

Component Name 6 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022XC01A

Component Name 7 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022AL00A

Component Name 8 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022AL00B

Component Name 9 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022AL01A

Component Name 10 :	Pump with Filter
Component Description :	Pump with Filter
Component Part Number :	42022AL01B

Supplier Identification :

Component Manufacturer

Name :	Denso International America, Inc.
Address :	24777 Denso Drive Southfield Michigan 48033

Country : United States

Chronology :

Chronology of defect provided via separate attachment.

Description of Remedy :

Description of Remedy Program :	For all of the potentially affected vehicles, Subaru dealers will replace the low pressure fuel pump (Component Name: PUMP WITH FILTER) with an improved part at no cost.
How Remedy Component Differs from Recalled Component :	Remedy components have a fuel pump impeller with a higher density.
Identify How/When Recall Condition was Corrected in Production :	The supplier began using the fuel pump with filter with a higher density impeller in July 2019.

Recall Schedule :

Description of Recall Schedule :	Owner notification will occur within 60 days. Dealer notification is scheduled to begin on or about August 2, 2021.
Planned Dealer Notification Date :	AUG 02, 2021 - AUG 02, 2021
Planned Owner Notification Date :	SEP 13, 2021 - SEP 27, 2021

* NR - Not Reported