CarValueScout

Professional Vehicle History Reports

Complete Vehicle History Report

2012 Ford Fusion SE

VIN: 3FAHP0HG1CR119749

Report Generated: December 08, 2025 at 08:03 PM

Vehicle Summary Overview

CATEGORY	STATUS
Title Brand	**0 Record(s) Found**
Damage Verification	**0 Record(s) Found**
Event Verification	**0 Record(s) Found**
Accident Record	**Record(s) Found**
Service & Repair	**28 Record(s) Found**
Recalls Record	**19 Record(s) Found**
Auction/Sales Record	**0 Record(s) Found**
Lien/Loan Record	**0 Record(s) Found**
Theft Record	**No Record Found**
Mileage Record	**27 Record(s) Found**
Flood Check	**No Record Found**
Lemon Check	**No Record Found**
Ownership Record	**Multiple Owners**

Vehicle Specifications

ENGINE
3.0L V6 F DOHC 24V

DRIVE TYPE
Front wheel drive

FUEL TYPE
Flexible fuel

BODY TYPE
Sedan 4 DR

CURRENT MILEAGE
216,028

LAST ODOMETER DATE
03-05-2025

LAST OWNERSHIP DATE
08-28-2024

Accident History

⚠ **2 ACCIDENT(S) REPORTED** - Review details below carefully

ACCIDENT #	DATE	LOCATION	DETAILS
1	01/05/2023	OCONEE COUNTY, SC	• Front Impact with Another Vehicle(Case #:23502077) • Moderate Damage Reported • Accident Reported(Report #: 23-000220) • Vehicle Was Towed • Accident or Damage Reported • Vehicle Damage Reported • Right Side Damage or Repair Reported • Damage or Repair to Radiator Reported • Damage or Repair to Grille Reported • Damage or Repair to Fender Reported
2	01/18/2023	SENECA, SC	• Damage Report • Accident or Damage Reported • Vehicle Damage Reported • Right Side Damage or Repair Reported • Damage or Repair to Radiator Reported • Damage or Repair to Grille Reported • Damage or Repair to Fender Reported

⚠ **Important:** Accident history may affect vehicle value and safety. We strongly recommend having a qualified mechanic inspect this vehicle before purchase.

Title & Damage Verification

CLEAN TITLE - No title brands, damage records, or problematic events found

Title Brand Checks

CHECK TYPE	STATUS
No fire brand	NO RECORDS FOUND
No hail brand	NO RECORDS FOUND
No flood brand	NO RECORDS FOUND
No Junk or scrapped brand	NO RECORDS FOUND
No manufacturer buyback	NO RECORDS FOUND
No lemon brand	NO RECORDS FOUND
No salvage brand	NO RECORDS FOUND
No rebuilt or rebuildable brand	NO RECORDS FOUND
No odometer brand (EML or NAM)	NO RECORDS FOUND
No auction brand	NO RECORDS FOUND

Damage Verification

CHECK TYPE	STATUS
No non-title fire damaged record	NO RECORDS FOUND
No non-title hail damaged record	NO RECORDS FOUND
No non-title flood damaged record	NO RECORDS FOUND
No auction junk or scrapped record	NO RECORDS FOUND
No auction rebuilt or rebuildable record	NO RECORDS FOUND
No salvage auction record	NO RECORDS FOUND
No damaged or major damage incident record	NO RECORDS FOUND
No structural damage or structural alteration record	NO RECORDS FOUND
No recycling facility record	NO RECORDS FOUND
No crash test record	NO RECORDS FOUND

Event Verification

CHECK TYPE	STATUS
No insurance loss record	NO RECORDS FOUND
No titled to an insurance company record	NO RECORDS FOUND
No auction lemon/manufacturer buyback record	NO RECORDS FOUND
No abandoned title record	NO RECORDS FOUND

CHECK TYPE	STATUS
No grey market title record	NO RECORDS FOUND
No Loan/lien record	NO RECORDS FOUND
No repossessed record	NO RECORDS FOUND
No corrected title record	NO RECORDS FOUND
No duplicate title record	NO RECORDS FOUND
No theft record	NO RECORDS FOUND

Stolen Vehicle Check

NOT REPORTED STOLEN - No theft records found

Ownership History

1 Owner(s) on Record

STATUS	PURCHASED	STATE	PERIOD	DURATION
Current Owner	08-28-2024	SC	08-28-2024 - 12-08-2025	1 year 3 month(s)

Odometer History

27 mileage readings recorded

DATE	MILEAGE	LOCATION	STATUS
08/20/2012	**28,917 miles**	WV	VERIFIED
10/15/2012	**29,089 miles**	WV	VERIFIED
06/13/2013	**30,501 miles**	WV	VERIFIED
12/26/2013	**35,213 miles**	WV	VERIFIED
06/17/2014	**38,212 miles**	WV	VERIFIED
06/15/2015	**40,212 miles**	WV	VERIFIED
08/05/2015	**41,210 miles**	WV	VERIFIED
06/08/2016	**48,122 miles**	WV	VERIFIED
10/18/2016	**55,212 miles**	WV	VERIFIED
04/24/2017	**69,622 miles**	SC	VERIFIED
06/05/2017	**72,678 miles**	SC	VERIFIED
05/11/2018	**92,992 miles**	SC	VERIFIED
03/12/2019	**105,889 miles**	SC	VERIFIED
07/11/2019	**111,605 miles**	SC	VERIFIED
10/31/2019	**117,977 miles**	SC	

DATE	MILEAGE	LOCATION	STATUS
			VERIFIED
12/23/2019	**121,570 miles**	SC	VERIFIED
05/15/2020	**131,309 miles**	SC	VERIFIED
08/06/2020	**135,930 miles**	SC	VERIFIED
02/18/2021	**146,067 miles**	SC	VERIFIED
06/05/2021	**152,665 miles**	SC	VERIFIED
07/21/2021	**156,059 miles**	SC	VERIFIED
11/17/2021	**165,769 miles**	SC	VERIFIED
02/21/2022	**174,365 miles**	SC	VERIFIED
08/10/2022	**183,373 miles**	SC	VERIFIED
12/15/2022	**193,447 miles**	SC	VERIFIED
03/05/2025	**204,583 miles**	SC	VERIFIED
12/08/2025	**216,028 miles**		VERIFIED

Service & Maintenance History (28 Records)

Date: 08/20/2012 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 10/15/2012 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 06/13/2013 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 12/26/2013 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 06/17/2014 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 06/15/2015 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 08/05/2015 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 06/08/2016 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 10/18/2016 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 01/27/2017 | **Location:** WV

Source: Ramey Ford Princeton.

Date: 04/24/2017 | **Location:** SC

Source: Walmart Auto Care Center.

Date: 06/05/2017 | **Location:** SC

Source: Walmart Auto Care Center.

Date: 05/11/2018 | **Location:** SC

Source: Meineke Car Care Center.

Date: 03/12/2019 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 07/11/2019 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 10/31/2019 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 12/23/2019 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 05/15/2020 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 08/06/2020 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 02/18/2021 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 06/05/2021 | **Location:** SC

Source: Grease Monkey #1385.

Date: 07/21/2021 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 11/17/2021 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 02/21/2022 | **Location:** SC

Source: Valvoline Instant Oil Change.

Date: 08/10/2022 | **Location:** SC

Source: Grease Monkey.

Date: 12/15/2022 | **Location:** SC

Source: Black's Tire.

Date: 12/15/2022 | **Location:** SC

Source: Grease Monkey.

Date: 03/05/2025 | **Location:** SC

Source: Tigers Ford.

Inspection Records (13 Records)

Date: 08/20/2012

Type: N/A

Result: N/A

Date: 10/15/2012

Type: N/A

Result: N/A

Date: 06/13/2013

Type: N/A

Result: N/A

Date: 12/26/2013

Type: N/A

Result: N/A

Date: 06/17/2014

Type: N/A

Result: N/A

Date: 06/15/2015

Type: N/A

Result: N/A

Date: 06/08/2016

Type: N/A

Result: N/A

Date: 10/18/2016

Type: N/A

Result: N/A

Date: 01/27/2017

Type: N/A

Result: N/A

Date: 08/10/2022

Type: N/A

Result: N/A

Date: 12/15/2022

Type: N/A

Result: N/A

Date: 03/05/2025

Type: N/A

Result: N/A

Date: 09/22/2025

Type: N/A

Result: N/A

Detailed Vehicle History (7 Events)

01/27/2017 | WV

Source: Ramey Ford Princeton

- Vehicle serviced
- Maintenance inspection completed
- Battery/charging system checked
- Brakes checked
- Oil and filter changed
- Throttle body cleaned/serviced
- Tire condition and pressure checked
- Tires rotated

12/15/2022 | SC

Source: Grease Monkey

- Vehicle serviced
- Maintenance inspection completed
- Recommended maintenance performed
- Oil and filter changed

08/28/2024 | SC

Source: South Carolina Motor Vehicle Dept.

- Title issued or updated
- New owner reported

09/05/2025 | SC

Source: South Carolina Motor Vehicle Dept.

- Registration issued or renewed

09/22/2025 | SC

Source: Ralph Hayes Toyota

- Inspection performed
- Alignment checked

09/26/2025 | SC

Source: South Carolina Motor Vehicle Dept.

- Title issued or updated

12/08/2025 | 216,028 miles

Source: Independent Source

- Current estimated mileage

⚠ Safety Recalls

⚠ **19 Open Recall(s) Found** - Contact a dealer for free repair

Date: 05/27/2015

Recall Number: 2015-224

Manufacturer: FORD

Component: Steering

Summary: On certain vehicles, a fault in the Electric Power Steering (EPS) system could result in an immediate loss of power steering assist without warning to the driver. This would unexpectedly increase the steering effort force necessary to steer the vehicle at lower vehicle speeds, which could increase the risk of a crash causing injury and/or damage to property. Correction: Dealers will affect repairs as necessary and will reprogram the EPS controller with updated software. In the event that an EPS fault occurs, this updated software would allow for continued EPS function while displaying visual and audible warnings to the driver until the end of the drive cycle.

Date: 06/02/2015

Campaign Number: 15V340000

Component: STEERING:ELECTRIC POWER ASSIST SYSTEM

Summary: Ford Motor Company (Ford) is recalling certain model year 2011-2012 Ford Fusion vehicles without a 3.5L engine and Lincoln MKZ hybrid electric vehicles, 2011 Mercury Milan vehicles, 2011-2012 Ford Taurus, Ford Flex, Lincoln MKS, and Lincoln MKT vehicles equipped with a 3.5L GTDI engine and 2013 Ford Taurus, Ford Flex, Lincoln MKS, and Lincoln MKT vehicles equipped with

any available engine. The affected vehicles have electric power steering assist systems that may shut down as a result of a steering motor sensor fault.

Consequence: If the vehicle experiences a loss of power steering assist, extra steering effort will be required at lower speeds, increasing the risk of a vehicle crash.

Remedy: Ford will notify owners, and dealers will check the Power Steering Control Module (PSCM) for Diagnostic Trouble Codes (DTC). If dealers find any loss of steering assist DTCs, the steering gear will be replaced, free of charge. If, no codes are found during the PSCM inspection, the PSCM software will be updated, free of charge. The recall began on July 21, 2015. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 15S18.

Date: 06/02/2015

Campaign Number: 15V340000

Component: Steering

Summary: Ford Moor Company (Ford) is recalling certain model year 2011-2012 Ford Fusion vehicles without a 3.5L engine and Lincoln MKZ hybrid electric vehicles, 2011 Mercury Milan vehicles, 2011-2012 Ford Taurus, Ford Flex, Lincoln MKS, and Lincoln MKT vehicles equipped with a 3.5L GTDI engine and 2013 Ford Taurus, Ford Flex, Lincoln MKS, and Lincoln MKT vehicles equipped with any available engine. The affected vehicles have electric power steering assist systems that may shut down as a result of a steering motor sensor fault.

Consequence: If the vehicle experiences a loss of power steering assist, extra steering effort will be required at lower speeds, increasing the risk of a vehicle crash.

Remedy: Ford will notify owners, and dealers will check the Power Steering Control Module (PSCM) for Diagnostic Trouble Codes (DTC). If dealers find any loss of steering assist DTCs, the steering

gear will be replaced, free of charge. If, no codes are found during the PSCM inspection, the PSCM software will be updated, free of charge. Interim notices were mailed to owners on July 20, 2015. Owners will receive a second notice when the remedy becomes available. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 15S18.

Date: 01/10/2017

Campaign Number: 17V024000

Component: Air bags

Summary: Ford Motor Company (Ford) is recalling certain 2012 Ford Fusion and Mustang and Lincoln Zephyr and MKZ vehicles originally sold, or ever registered, in Alabama, California, Florida, Georgia, Hawaii, Louisiana, Mississippi, South Carolina, Texas, Puerto Rico, American Samoa, Guam, the Northern Mariana Islands (Saipan), and the U.S. Virgin Islands, or "Zone A." Additionally, unless included in "Zone A" above, Ford is recalling certain 2009 Ford Ranger, Edge, Fusion and Mustang, Lincoln MKX, MKZ and Zephyr and Mercury Milan vehicles originally sold, or ever registered, in Arizona, Arkansas, Delaware, District of Columbia, Illinois, Indiana, Kansas, Kentucky, Maryland, Missouri, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, Ohio, Oklahoma, Pennsylvania, Tennessee, Virginia and West Virginia, or "Zone B." Additionally, unless included in "Zone A" or "Zone B" above, Ford is recalling certain 2007-2008 Ford Ranger, Edge and Lincoln MKX, 2006-2008 Ford Fusion, Mercury Milan, L...

Consequence: An inflator rupture may result in metal fragments striking the vehicle occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will replace the passenger frontal air bag inflator, free of charge. Interim letters informing owners of the recall and that parts are not yet available are expected to begin February 27, 2017. Owners will receive a second notice when remedy parts become available. Owners may

contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 17S01.

Date: 01/12/2017

Campaign Number: 17V024000

Component: AIR BAGS:FRONTAL:PASSENGER SIDE:INFLATOR MODULE

Summary: Ford Motor Company (Ford) is recalling certain 2012 Ford Fusion and Mustang and Lincoln Zephyr and MKZ vehicles originally sold, or ever registered, in Alabama, California, Florida, Georgia, Hawaii, Louisiana, Mississippi, South Carolina, Texas, Puerto Rico, American Samoa, Guam, the Northern Mariana Islands (Saipan), and the U.S. Virgin Islands, or "Zone A." Additionally, unless included in "Zone A" above, Ford is recalling certain 2009 Ford Ranger, Edge, Fusion and Mustang, Lincoln MKX, MKZ and Zephyr and Mercury Milan vehicles originally sold, or ever registered, in Arizona, Arkansas, Delaware, District of Columbia, Illinois, Indiana, Kansas, Kentucky, Maryland, Missouri, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, Ohio, Oklahoma, Pennsylvania, Tennessee, Virginia and West Virginia, or "Zone B." Additionally, unless included in "Zone A" or "Zone B" above, Ford is recalling certain 2007-2008 Ford Ranger, Edge and Lincoln MKX, 2006-2008 Ford Fusion, Mercury Milan, Lincoln Zephyr and MKZ, 2005-2008 Ford Mustang and 2005-2006 Ford GT vehicles originally sold, or ever registered, in the states of Alaska, Colorado, Connecticut, Idaho, Iowa, Maine, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, New York, North Dakota, Oregon, Rhode Island, South Dakota, Utah, Vermont, Washington, Wisconsin and Wyoming. These vehicles are equipped with certain air bag inflators assembled as part of the passenger frontal air bag modules used as original equipment or replacement equipment. In the event of a crash necessitating deployment of the passenger frontal air bag, these inflators may

rupture due to propellant degradation occurring after long-term exposure to absolute humidity and temperature cycling.

Consequence: An inflator rupture may result in metal fragments striking the vehicle occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will replace the passenger frontal air bag inflator, free of charge. Interim letters informing owners of the recall and that parts are not yet available began mailing March 1, 2017. Owners will receive a second notice when remedy parts become available. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 19S01.

Date: 01/07/2019

Campaign Number: 19V001000

Component: Air bags

Summary: Ford Motor Company (Ford) is recalling certain 2014 Ford Mustang vehicles sold, or ever registered, in the states of Alabama, California, Florida, Georgia, Hawaii, Louisiana, Mississippi, South Carolina, Texas, Puerto Rico, American Samoa, Guam, the Northern Mariana Islands (Saipan), and the U.S. Virgin Islands or "Zone A." Additionally, Ford is recalling certain 2011 Ford Ranger and Mercury Milan vehicles, 2011-2012 Ford Fusion and Lincoln Zephyr/MKZ vehicles and 2011-2014 Ford Mustang vehicles sold, or ever registered, in the states of Arizona, Arkansas, Delaware, District of Columbia, Illinois, Indiana, Kansas, Kentucky, Maryland, Missouri, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, Ohio, Oklahoma, Pennsylvania, Tennessee, Virginia, and West Virginia or "Zone B." Ford is also recalling certain 2010 Ford Edge and Lincoln MKX vehicles, 2010-2011 Ford Ranger and Mercury Milan vehicles, 2010-2012 Ford Fusion and Lincoln Zephyr/MKZ vehicles, and 2010-2014 Ford Musta...

Consequence: An inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will replace the passenger frontal air bag inflator, free of charge. The recall is expected to begin February 18, 2019. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall 19S01.

Date: 01/08/2019

Recall Number: 2019-005

Manufacturer: FORD

Component: Airbag

Summary: Issue: On certain vehicles, long-term exposure to high absolute humidity and temperature, combined with high temperature cycling, may eventually degrade the propellant contained in the passenger-front airbag. This could cause the airbag to deploy with more force than normal. If the airbag inflator ruptures, fragments could be propelled toward vehicle occupants or cause damage to the airbag assembly, preventing its proper function. Safety Risk: If the vehicle is involved in a crash requiring an airbag deployment, the airbag inflator could rupture and create a risk of injury. Corrective Actions: Owners will be notified by mail and instructed to take their vehicle to a dealer to have the passenger-front airbag inflator replaced. Note: The Canadian climate results in the propellant degrading slowly. This recall is being conducted as a precaution to address future risk. It is expected that all airbag inflators will be replaced before their function would be affected. Additional note: This recall supersedes recalls 2016-347 (Ford Safety Improvement Program 16S26), 2017-024 (Ford Recall 17S01) and 2018-035 (Ford Recall 18S01). Vehicles repaired under the previous recalls do not require repair under this recall.

Date: 01/31/2019

Campaign Number: 19V001000

Component: AIR BAGS:FRONTAL:PASSENGER SIDE:INFLATOR MODULE

Summary: Ford Motor Company (Ford) is recalling certain 2014 Ford Mustang vehicles sold, or ever registered, in the states of Alabama, California, Florida, Georgia, Hawaii, Louisiana, Mississippi, South Carolina, Texas, Puerto Rico, American Samoa, Guam, the Northern Mariana Islands (Saipan), and the U.S. Virgin Islands or "Zone A." Additionally, Ford is recalling certain 2011 Ford Ranger and Mercury Milan vehicles, 2011-2012 Ford Fusion and Lincoln Zephyr/MKZ vehicles and 2011-2014 Ford Mustang vehicles sold, or ever registered, in the states of Arizona, Arkansas, Delaware, District of Columbia, Illinois, Indiana, Kansas, Kentucky, Maryland, Missouri, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, Ohio, Oklahoma, Pennsylvania, Tennessee, Virginia, and West Virginia or "Zone B." Ford is also recalling certain 2010 Ford Edge and Lincoln MKX vehicles, 2010-2011 Ford Ranger and Mercury Milan vehicles, 2010-2012 Ford Fusion and Lincoln Zephyr/MKZ vehicles, and 2010-2014 Ford Mustang vehicles sold, or ever registered, in the states of AK, CO, CT, ID, IA, ME, MA, MI, MN, MT, NH, NY, ND, OR, RI, SD, UT, VT, WA, WI, and WY or "Zone C." These vehicles are equipped with air bag inflators assembled as part of the passenger frontal air bag modules, used as original equipment or replacement equipment (such as after a vehicle crash necessitating replacement of the original air bags), that may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: An inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will replace the passenger frontal air bag inflator, free of charge. The recall began

February 13, 2019. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall 19S01.

Date: 01/27/2021

Recall Number: 2021-029

Manufacturer: FORD

Component: Airbag

Summary: Issue: On certain vehicles, long-term exposure to high absolute humidity and temperature, combined with high temperature cycling, may eventually degrade the propellant contained in the driver-front airbag. This could cause the airbag to deploy with more force than normal. If the airbag inflator ruptures, fragments could be propelled toward vehicle occupants or cause damage to the airbag assembly, preventing its proper function. Safety Risk: If the vehicle is involved in a crash requiring an airbag deployment, the airbag inflator could rupture and create a risk of injury. Corrective Action: Ford will notify owners by mail. The corrective actions for this recall are under development. Note: The Canadian climate results in the propellant degrading slowly. This recall is being conducted as a precaution to address future risk. It is expected that all airbag inflators will be replaced before their function would be affected.

Date: 02/16/2021

Campaign Number: 21V081000

Component: Air bags

Summary: Ford Motor Company (Ford) is recalling certain 2005-2014 Mustang, 2004-2011 Ranger, 2009-2011 Mercury Milan, 2006 Ford GT, 2008-2012 Fusion, 2007-2010 Edge and Lincoln MKX, and 2009-2010 Lincoln MKZ vehicles. These vehicles may be equipped with a driver or passenger frontal air bag inflator

used as a replacement service part, that may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: In the event of a crash necessitating deployment of the frontal air bag, an inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will inspect the driver and passenger air bag module, and replace either the module or the inflator, if necessary, free of charge. The recall is expected to begin March 8, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S05.

Date: 02/17/2021

Campaign Number: 21V081000

Component: AIR BAGS:FRONTAL

Summary: Ford Motor Company (Ford) is recalling certain 2005-2014 Mustang, 2004-2011 Ranger, 2009-2011 Mercury Milan, 2006 Ford GT, 2008-2012 Fusion, 2007-2010 Edge and Lincoln MKX, and 2009-2010 Lincoln MKZ vehicles. These vehicles may be equipped with a driver or passenger frontal air bag inflator used as a replacement service part, that may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: In the event of a crash necessitating deployment of the frontal air bag, an inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will inspect the driver and passenger air bag module, and replace either the module or the inflator, if necessary, free of charge. The recall

began March 17, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S05.

Date: 02/17/2021

Campaign Number: 21V081000

Component: AIR BAGS:FRONTAL:DRIVER SIDE:INFLATOR MODULE

Summary: Ford Motor Company (Ford) is recalling certain 2005-2014 Mustang, 2004-2011 Ranger, 2009-2011 Mercury Milan, 2006 Ford GT, 2008-2012 Fusion, 2007-2010 Edge and Lincoln MKX, and 2009-2010 Lincoln MKZ vehicles. These vehicles may be equipped with a driver or passenger frontal air bag inflator used as a replacement service part, that may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: In the event of a crash necessitating deployment of the frontal air bag, an inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will inspect the driver and passenger air bag module, and replace either the module or the inflator, if necessary, free of charge. The recall began March 17, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S05.

Date: 02/17/2021

Campaign Number: 21V081000

Component: AIR BAGS:FRONTAL:PASSENGER SIDE:INFLATOR MODULE

Summary: Ford Motor Company (Ford) is recalling certain 2005-2014 Mustang, 2004-2011 Ranger, 2009-2011 Mercury Milan, 2006 Ford GT, 2008-2012 Fusion, 2007-2010 Edge and

Lincoln MKX, and 2009-2010 Lincoln MKZ vehicles. These vehicles may be equipped with a driver or passenger frontal air bag inflator used as a replacement service part, that may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: In the event of a crash necessitating deployment of the frontal air bag, an inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will inspect the driver and passenger air bag module, and replace either the module or the inflator, if necessary, free of charge. The recall began March 17, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S05.

Date: 02/17/2021

Campaign Number: 21E013000

Component: AIR BAGS:FRONTAL

Summary: Ford Motor Company (Ford) is recalling certain air bag inflator and/or module replacement service parts that may have been used as part of a collision repair. The parts include certain driver-side air bag inflators and/or modules, designed to fit 2005-2014 Ford Mustang and Mustang GT500. It also includes certain passenger-side air bag inflators and/or modules designed to fit 2005-2014 Ford Mustang, 2010-2012 Lincoln MKZ, 2010-2012 Ford Fusion, 2010-2011 Mercury Milan, 2007-2011 Ford Ranger, and 2007-2010 Lincoln MKX vehicles. Please see Ford's recall report for the specific part numbers. These parts may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: In the event of a crash necessitating deployment of the frontal air bag, an inflator explosion may result in sharp

metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify dealers that purchased the affected parts, and dealers will provide replacement parts to purchasers, free of charge. The recall began March 18, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S05.

Date: 02/17/2021

Campaign Number: 21E013000

Component: AIR BAGS:FRONTAL:DRIVER SIDE:INFLATOR MODULE

Summary: Ford Motor Company (Ford) is recalling certain air bag inflator and/or module replacement service parts that may have been used as part of a collision repair. The parts include certain driver-side air bag inflators and/or modules, designed to fit 2005-2014 Ford Mustang and Mustang GT500. It also includes certain passenger-side air bag inflators and/or modules designed to fit 2005-2014 Ford Mustang, 2010-2012 Lincoln MKZ, 2010-2012 Ford Fusion, 2010-2011 Mercury Milan, 2007-2011 Ford Ranger, and 2007-2010 Lincoln MKX vehicles. Please see Ford's recall report for the specific part numbers. These parts may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: In the event of a crash necessitating deployment of the frontal air bag, an inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify dealers that purchased the affected parts, and dealers will provide replacement parts to purchasers, free of charge. The recall began March 18, 2021. Owners may

contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S05.

Date: 02/17/2021

Campaign Number: 21E013000

Component: AIR BAGS:FRONTAL:PASSENGER SIDE:INFLATOR MODULE

Summary: Ford Motor Company (Ford) is recalling certain air bag inflator and/or module replacement service parts that may have been used as part of a collision repair. The parts include certain driver-side air bag inflators and/or modules, designed to fit 2005-2014 Ford Mustang and Mustang GT500. It also includes certain passenger-side air bag inflators and/or modules designed to fit 2005-2014 Ford Mustang, 2010-2012 Lincoln MKZ, 2010-2012 Ford Fusion, 2010-2011 Mercury Milan, 2007-2011 Ford Ranger, and 2007-2010 Lincoln MKX vehicles. Please see Ford's recall report for the specific part numbers. These parts may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, temperature and temperature cycling.

Consequence: In the event of a crash necessitating deployment of the frontal air bag, an inflator explosion may result in sharp metal fragments striking the driver or other occupants resulting in serious injury or death.

Remedy: Ford will notify dealers that purchased the affected parts, and dealers will provide replacement parts to purchasers, free of charge. The recall began March 18, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S05.

Date: 02/19/2021

Recall Number: 2021-077

Manufacturer: FORD

Component: Airbag

Summary: Issue: This recall is for certain vehicles that had the driver-front and/or passenger-front airbag inflator replaced after a collision or theft. An obsolete airbag may have been installed. On certain vehicles, long-term exposure to high absolute humidity and temperature, combined with high temperature cycling, may eventually degrade the propellant contained in the driver-front airbag. This could cause the airbag to deploy with more force than normal. If the airbag inflator ruptures, fragments could be propelled toward vehicle occupants or cause damage to the airbag assembly, preventing its proper function. Safety Risk: If the vehicle is involved in a crash requiring an airbag deployment, the airbag inflator could rupture and create a risk of injury. Corrective Action: The company will notify owners by mail and instruct you to take your vehicle to a Ford dealer to inspect the driver and/or passenger airbag inflator or module and replace it, if necessary. Note: The Canadian climate results in the propellant degrading slowly. This recall is being conducted as a precaution to address future risk. It is expected that all airbag inflators will be replaced before their function would be affected.

Date: 03/10/2021

Campaign Number: 21V158000

Component: Air bags

Summary: Ford Motor Company (Ford) is recalling certain 2007-2011 Ranger, 2006-2012 Fusion, Lincoln Zephyr, Lincoln MKZ, 2006-2011 Mercury Milan, 2007-2010 Ford Edge, and Lincoln MKX vehicles. The driver's side air bag inflator may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, high temperatures, and high temperature cycling.

Consequence: An inflator explosion may result in sharp metal fragments striking the driver or other occupants, resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will replace the driver-side airbag inflator or module with an alternate one, free of charge. The recall is expected to begin April 1, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S12.

Date: 03/11/2021

Campaign Number: 21V158000

Component: AIR BAGS:FRONTAL:DRIVER SIDE:INFLATOR MODULE

Summary: Ford Motor Company (Ford) is recalling certain 2007-2011 Ranger, 2006-2012 Fusion, Lincoln Zephyr, Lincoln MKZ, 2006-2011 Mercury Milan, 2007-2010 Ford Edge, and Lincoln MKX vehicles. The driver's side air bag inflator may explode due to propellant degradation occurring after long-term exposure to high absolute humidity, high temperatures, and high temperature cycling.

Consequence: An inflator explosion may result in sharp metal fragments striking the driver or other occupants, resulting in serious injury or death.

Remedy: Ford will notify owners, and dealers will replace the driver-side airbag inflator or module with an alternate one, free of charge. Owner notification letters were mailed on April 9, 2021. Owners may contact Ford customer service at 1-866-436-7332. Ford's number for this recall is 21S12.

Vehicle Usage Verification

USAGE TYPE	STATUS
Used Personally	RECORDS FOUND
Fleet vehicle	NO RECORDS FOUND
Used as a Rental	NO RECORDS FOUND
Lease records	NO RECORDS FOUND
Taxi	NO RECORDS FOUND
Livery	NO RECORDS FOUND
Police Use	NO RECORDS FOUND
Government Use	NO RECORDS FOUND
Used Commercially	NO RECORDS FOUND

Market Value Analysis

SE 4dr Front-wheel Drive Sedan Automatic

CONDITION	TRADE-IN VALUE	PRIVATE PARTY VALUE	DEALER RETAIL VALUE
Outstanding	$2,090	$3,082	$3,662
Clean	$1,989	$2,915	$3,443
Average	$1,821	$2,637	$3,077
Rough	$1,603	$2,275	$2,601

Warranty Information

WARRANTY TYPE	COVERAGE	STATUS
Warranty - Basic (months/miles)	**36/36,000**	EXPIRED
Warranty - Corrosion perforation (months/miles)	**60/ unlimited**	EXPIRED
Warranty - Powertrain (months/miles)	**60/60,000**	EXPIRED
Warranty - Roadside assistance coverage (months/miles)	**60/60,000**	EXPIRED

Common Repair Cost Estimates (76 Services)

Estimated repair costs for common maintenance and repairs. Actual costs may vary.

ABS Module Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$735	$627	**$1,362**

AC Line Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$247	$439	**$686**

AC Repair

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$104	$311	**$415**

Air Conditioning - Recharge

Over time, air conditioning may not blow as cold as when the car was new. That means that the refrigerant used in the air conditioning compressor is no longer capable of cooling. This service involves determining if the refrigerant is lost, which means there’s a leak in the system that needs to be repaired (it may be a

faulty seal or connector) or merely has lost its ability to cool. This service is best performed by a service technician.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$133	$162	**$295**
Dealership	$133	$163	**$296**

Air Conditioning - Replace Compressor

When temperatures rise, your vehicle’s air conditioning system has to work harder to keep you cool. Over time, the A/C may not blow as cold as you want, even though the control is at the coldest setting. Eventually, the compressor will wear out and need to be replaced. Probably the most important part of the air conditioning system, the compressor ensures a constant flow of refrigerant to cool the air channeled into the passenger cabin. Lack of cold air plus noises from clattering bearings or a squealing belt are signs of compressor failure. Although this repair is relatively straightforward, it’s best done by a professional versed in evacuating and recharging the compressor’s refrigerant.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$672	$1,007	**$1,679**
Dealership	$714	$1,072	**$1,786**

Alternator Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$533	$341	**$874**

Axle - Replace Front Axle

The constant-velocity universal joints (CV Joints) connect the front-drive wheels of your car or SUV to the transaxle and then to the engine. These joints are covered by rubber “boots” which help to keep the axle grease in and water and dirt out. Even the best laid plans go astray and through normal wear and sometimes even literal tears, the front CV Joints fail. It used to be easy to replace the CV Joint. That was then, this is now: Manufacturers suggest replacing the entire axle with a new or a remanufactured unit that is already sealed before installation. This practice is more desirable than rebuilding the faulty CV Joint due to the amount of work involved in the process. This is a job for professionals.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$277	$514	**$791**
Dealership	$274	$509	**$783**

Battery - Replace

Diamonds may be forever, but batteries are not. A car battery lasts approximately 3-4 years – or less in regions with high heat and humidity. A key sign of pending failure could be sluggish starting cycle. Many mechanics suggest having a battery “load tested” once every two years, in an attempt to predict just how much life may be left in your battery.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$214	$54	**$269**
Dealership	$266	$66	**$332**

Battery Check

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$0	$153	**$153**

Brake Bleed

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$0	$230	**$230**

Brake Caliper Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$335	$224	**$559**

Brake Fluid - Flush Fluid & Bleed Brakes

Air in the brake lines can create a spongy feeling when you apply the brakes. Bleeding the brake lines usually removes the air, but it isn’t a job for the faint of heart. Better left to professionals, newer ABS braking systems require specialized equipment to complete the job.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$102	$124	**$226**
Dealership	$104	$128	**$232**

Brake Light Switch Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$70	$173	**$243**

Brake Line Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$251	$241	**$492**

Brake Master Cylinder Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$406	$516	**$922**

Brakes - Adjust

Please note: Pricing shown is for either front brakes or rear brakes. Modern braking systems typically are self-adjusting to ensure that the brake pad maintains constant contact with the braking surface on a rotor or drum when the brakes are applied. Older brakes may need periodic adjustment where the pad is realigned to close the gap between it and the surface by tightening adjustment screws in the brake mechanism.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$128	**$128**
Dealership	$0	$128	**$128**

Brakes - Replace Pads

Please note: Pricing shown is for either front brakes or rear brakes. Made of ceramic, organic or metallic material, brake pads squeeze against the brake disc rotors to slow the vehicle down. Every time you apply the brakes, the pads wear down a tiny bit. Eventually a wear indicator starts squeaking to tell you it’s time to replace the brake pads. It’s always better to replace the pads before they start squeaking, to avoid damaging the brake rotors. A mechanic can check brake pad thickness during a tire rotation or other service. The number of miles you can go before replacing the brake pads really depends on your driving style.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$114	$172	**$286**
Dealership	$143	$215	**$358**

Brakes - Replace Pads & Resurface Rotors

Please note: Pricing shown is for either front brakes or rear brakes. Made of ceramic, organic or metallic material, brake pads squeeze against the brake disc rotors to slow the vehicle down. Every time you apply the brakes, the pads wear down a tiny bit. Eventually a wear indicator starts squeaking to tell you it’s time to replace the brake pads. A mechanic can check brake pad thickness during a tire rotation or other service. As part of the service, the rotors will be resurfaced by grinding part of the metal surface away to remove irregularities or other imperfections. Resurfacing extends the life of the rotor and is less expensive than replacing the rotor.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$192	$288	**$481**
Dealership	$192	$288	**$481**

Brakes - Replace Pads & Rotors

Please note: Pricing shown is for either front brakes or rear brakes. Made of ceramic, organic or metallic material, brake pads squeeze against the brake disc rotors to slow the vehicle down. Every time you apply the brakes, the pads wear down a tiny bit. Eventually a wear indicator starts squeaking to tell you it’s time to replace the brake pads. A mechanic can examine brake pad thickness during a tire rotation or other service. Sometimes you feel a vibration while applying the brakes. That’s a sign that you may need to resurface or replace the brake rotors. Resurfacing a brake rotor will extend the life of the rotors by grinding a tiny amount of the metal surface area away to remove any irregularities or other imperfections that have cropped up over time. After a while, the entire brake rotor may need replacement if it has become too thin (through repeated grindings) or warped from variations in temperature. Don’t delay, as brakes are probably one of the most critical safety devices on your vehicle, right up there with seat belts.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$332	$221	**$553**
Dealership	$414	$276	**$691**

Brakes - Replace Rotors

Please note: Pricing shown is for either front brakes or rear brakes. Sometimes you feel a vibration while applying the brakes. That’s a sign that you may need to resurface or replace the brake rotors. Resurfacing a brake rotor will extend the life of the rotors by grinding a tiny amount of the metal away, to remove irregularities or other imperfections that have cropped up over time. After a while, the entire brake rotor may need to be replaced if it has become too thin (through repeated grindings) or warped from variations in temperature. Don’t delay, as brakes are one of the most critical safety devices on your vehicle, right up there with seat belts.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$191	$128	**$319**
Dealership	$191	$128	**$319**

Brakes - Resurface Rotors

Please note: Pricing shown is for either front brakes or rear brakes. Sometimes you feel a vibration while applying the brakes. That’s a sign that you may need t resurface the brake rotors. Resurfacing extends the life of the rotors by grinding a tiny amount of the metal surface area away, to remove any irregularities or other imperfections that have cropped up over time.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$186	**$186**
Dealership	$0	$221	**$221**

Cabin Air Filter - Replace

Modern heating and air conditioning systems in cars use an in-cabin air filter to help purify the air and eliminate outside odors. Consult your owner’s manual or maintenance schedule for how often it should be changed. For convenience, you might consider having the cabin air filter changed in conjunction with other routine maintenance.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$32	$60	**$93**
Dealership	$34	$64	**$99**

Catalytic Converter Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$1,261	$566	**$1,827**

Clutch Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$748	$878	**$1,626**

Coolant - Flush

Periodically flushing the engine coolant can help keep contaminants that clog the radiator’s cooling element from building up. A clogged radiator could make the engine run hot, cause premature wear and even lead to engine failure. Fresh coolant also contains inhibitors that will keep the entire cooling system clean from rust, which could cause leaks in the radiator. Typically, you should flush and replace the coolant every 30,000 miles or five years, whichever comes first.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$101	$187	**$288**
Dealership	$101	$187	**$288**

Coolant Thermostat Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$114	$520	**$634**

Crankshaft Seal Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$95	$766	**$861**

Differential Fluid - Flush

In addition to wheels, a vehicle’s drive axle includes a differential unit, which uses gears to synchronize the rate at which the wheels rotate. When your vehicle turns, the inside wheels don’t need to make as many rotations as the outside wheels, which have a greater distance to cover. The differential helps keep the axle from binding up from this difference in turning rates. A thin coat of oil lubricates these gears, and that oil needs to be changed from time to time. Your owner’s manual or maintenance minder will tell you when to replace it. If the oil becomes contaminated or the level drops too low, the gears could be damaged, which would lead to a more expensive repair or replacement.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$94	$114	**$208**
Dealership	$94	$114	**$208**

Drive Belt Tensioner Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$245	$255	**$500**

Engine Air Filter - Replace

The engine air filter helps trap dirt and debris before it can enter the engine. Typically, you should change the engine air filter every 30,000 to 45,000 miles, but if you’re in a dusty, dirty region, cut these distances in half.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$31	$56	**$87**
Dealership	$31	$56	**$87**

Engine Belt - Replace

Several types of engine belts need to be replaced from time to time. Vehicles from 1990 and newer typically have a serpentine belt. The belt snakes around the pulleys located at the front of the engine (or the side of a transverse-mounted engine) and drives multiple accessories including the alternator, power steering pump and air conditioning compressor. If it is squeaking or worn, it could break, which would make the engine inoperable. Check it at 60,000 miles but change it before 100,000 miles. Older vehicles usually have separate belts for the water pump, alternator, radiator fan and air conditioning system, but when they break, you still may be able to get home. Finally, engine timing belts help to keep the camshaft and crankshaft in sync so that pistons and valves operate in sync. They typically last from 60,000 to 90,000 miles. A broken timing belt could result in engine damage and an expensive rebuild.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$93	$139	**$232**
Dealership	$111	$166	**$277**

Engine Control Unit (ECU) - Reprogram

Flashing or reprogramming your engine's computer keeps it up-to-date and operating properly. The engine control unit (ECU) is a computer that controls all of your vehicle's electronic systems. Like many computers, it occasionally requires reprogramming of its operating software. Your vehicle's warranty may covered it, but there's usually an additional charge. For example, Mazda charged a fee to re-flash the system so their vehicles could operate Apple CarPlay or Android Auto. On occasion, other vehicles revert to limp-home mode following an ECU malfunction. In order to diagnose what needs to be done, a dealership technician will connect a computer to the vehicle's On-Board Diagnostic II (OBD-II) port. Consult with your dealership service department for more information on your specific car, truck or SUV.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$184	**$184**
Dealership	$0	$200	**$200**

Engine Diagnostics - Check Engine Light

Diagnostics are periodic checks of the system operations of your car, truck or SUV that can give you a quick window into your vehicle's health. A mechanic performs diagnostics by plugging into a receptacle under the dashboard to access the On Board Diagnostics (OBD-II) tool or by tapping into a system like General Motors' OnStar.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$291	**$291**
Dealership	$0	$315	**$315**

Engine Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$3,557	$2,911	**$6,468**

Exhaust System Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$474	$303	**$777**

Fuel Filter - Replace

The fuel filter is positioned in the line leading from the gas tank to the engine and prevents containments from getting inside the engine, which could lead to a loss in performance and potential damage to the cylinder lining. Older cars may need their filters replaced as often as every two years and 30,000 miles; newer vehicles could go as long as 50,000 miles before needing the filter changed. Consult your owner’s manual for more information.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$74	$90	**$164**
Dealership	$85	$104	**$189**

Fuel Injector - Replace

A vehicle’s fuel delivery system has progressed quite a bit from the carburetor that used to sit on top of the engine. Today, modern vehicles feature precise fuel injection systems located on top of – or even inside – the combustion chamber. Restrictions in fuel flow, electrical problems with the injectors themselves or even dirty or contaminated fuel can all cause trouble. Fuel injectors will typically last between 50,000 and 100,000 miles. Much of this lifespan is determined by the

type of fuel used and how often the vehicle's fuel filters are changed. Some symptoms that your fuel injectors need replacing include an illuminated check engine light, a decrease in fuel efficiency, a smell of fuel (especially near the fuel injectors under the hood) and engine misfiring. Fuel injector replacement is a job best performed by an ASE-certified mechanic at a dealership service department or automotive service center.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$399	$599	**$998**
Dealership	$399	$599	**$998**

Fuel Injector - Service

Changing from carburetors to fuel injection systems has made fuel delivery more precise. But every now and then the system needs to be flushed, cleaned and restored. Servicing your fuel injection system helps to remove waxy build-up & deposits and cleans the intake valves, cylinder heads and fuel delivery lines. This results in an extended engine life, improved performance, and better fuel economy. Most modern engines suggest fuel injector service at 60,000 miles, unless a specific problem crops up. Check your owner's manual to know for sure with your car. If you notice a certain sluggishness in acceleration and a decrease in fuel economy, it might mean it's time for a fuel injector service. Your local dealership service department performs this job every day. Contact them for more information.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$85	$127	**$212**
Dealership	$84	$127	**$211**

Fuel Pump - Replace

Located inside your fuel tank, a fuel pump has a small electric motor to make sure that pressurized gasoline flows to the engine to power the vehicle. Along the way, the fuel passes through a filter, either inside the fuel tank or externally in the fuel flow line. Most fuel pumps will last for the life of the vehicle but occasionally they

can fail. Signs of such failure are a car that won't start or stalls once it has started. Other times, the fuel flow can slowly become starved causing the check engine light to come on. Or if you hear a whirring sound coming from your fuel tank, the fuel pump may be about to fail, since fuel pumps do not normally make noise. A mechanic will need to get to the failed pump through the top of the fuel tank via an access panel in the passenger compartment or by removing the tank from the vehicle. This moderately complicated job is best performed at your dealership's service department.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$504	$617	**$1,121**
Dealership	$520	$636	**$1,156**

Head Gasket Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$817	$2,102	**$2,919**

Hood Latch Assembly Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$113	$252	**$365**

Ignition Switch Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$139	$283	**$422**

Intake Manifold Gasket - Replace

The intake manifold gasket is an aluminized piece of steel coated in a carbonized rubber formula that provides a seal between the intake manifold and the engine's cylinder head. It ensures proper engine manifold pressure, which is needed to maintain power. Intake manifold gaskets are able to withstand deterioration caused by coolants, oils and other fluids. They are also designed to resist long-term bouts of constant temperature fluctuation from starting and stopping the engine. But after many miles and years of service, the material may wear out, resulting in pressure and coolant leakage and causing the engine to run rough and overheat. A mechanic will replace the intake manifold gasket by removing all components above the cylinder heads that may obscure the gasket from removal. Once they have removed it, the mounting surface is cleaned and resurfaced, and the gasket is replaced.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$124	$498	**$622**
Dealership	$142	$569	**$711**

Mass Air Sensor Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$216	$200	**$416**

Oil Change

An oil change is the act of replacing the oil and oil filter in your car, truck or SUV's crankcase. Oil has a limited life span and should be changed according to the maintenance schedule in your Owner's Manual. Many modern vehicles use synthetic motor oil, which only requires an oil change every 7,500–15,000 miles depending on the manufacturer's recommendation.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$44	$36	**$80**
Dealership	$55	$45	**$100**

Oil Pan Gasket Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$205	$822	**$1,027**

Oil Pan Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$294	$795	**$1,089**

Oil Pressure Sensor Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$68	$241	**$309**

Oil Pump Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$432	$803	**$1,235**

PCV Valve Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$82	$167	**$249**

Power Steering Fluid - Flush

Modern cars, trucks and SUVs all use power steering to make maneuvering effortless. The power steering system uses a pump and hydraulic pressure to assist the steering gears. Power steering fluid is designed to last for as long as 100,000 miles, but the system may leak or the fluid may become exhausted before then. Follow the recommendation from your owner's manual to see when it's time to flush the power steering fluid. A mechanic will flush the system by removing dark, discolored power steering fluid and refilling it with fresh fluid, while an assistant turns the steering wheel from left to right to get old fluid out of the system. When the remaining fluid appears like fresh fluid, the system has been successfully flushed. Remove the remaining fluid, refill with fresh power steering fluid and your vehicle should be good for another 100,000 miles.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$63	$95	**$158**
Dealership	$72	$109	**$181**

Power Steering Pump - Replace

A belt-driven power steering pump provides your vehicle with the hydraulic pressure needed to assist its steering. That boost eases the effort enabling a smoother steering motion. Power steering pumps fail as a result of worn bearings or by leaks which have drained the power steering fluid from the pump entirely. Failure to address the lack of fluid and a subsequent pump malfunction can cause the pump to seize up. At the same time, it's a good idea to also have all hoses that lead to the pump replaced to minimize the chance of subsequent power steering fluid leaks. Many newer vehicles have gone to electrically assisted power steering, which eliminates the use of hydraulic fluid, hoses and the pump itself.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$453	$302	**$755**
Dealership	$511	$340	**$851**

Purge Valve Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$133	$191	**$324**

Radiator Fan Motor Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$303	$401	**$704**

Radiator Hose Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$234	$286	**$520**

Radiator Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$434	$625	**$1,059**

Spark Plugs - Replace

Spark plugs ignite the fuel mixture in the engine, providing the power to make your car go. Sitting atop your engine’s cylinder head, it receives a spark from the electronic ignition in modern vehicles, or the distributor cap and rotor found in older cars. Eventually, at around 30,000 miles to as high as 40,000 miles, conventional spark plugs will wear out, which could cause stalling, starting problems and engine misfires. Higher-cost platinum-tipped spark plugs may not need to be replaced as often. At the same time, it might be appropriate to replace your oxygen sensor, spark plug wires, PCV valve and fuel filter.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$114	$139	**$253**
Dealership	$137	$167	**$304**

Starter Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$408	$333	**$741**

Thermostat - Replace

A vehicle’s cooling system uses a thermostat valve to help regulate the engine’s temperature. When the engine is cold, the valve will be closed, bypassing the radiator and allowing the engine to rapidly come up to operating temperature. After that level has been reached, the valve on the thermostat opens to allow coolant to circulate through the radiator. But sometimes, through normal wear and tear or contaminants in the coolant, the thermostat may fail to open, causing the engine to overheat. This will be evident by the temperature gauge climbing into the high temperature (usually red) zone. Remember that a thermostat failure can also be caused by other factors, as well. For that reason, it is important to have a skilled mechanic check all the links in the chain – radiator, coolant pump, hoses and thermostat.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$164	$382	**$546**
Dealership	$200	$467	**$667**

Throttle Body Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$199	$275	**$474**

Timing Belt - Replace

Critical to the operation of your vehicle, the timing belt synchs the operations of the camshaft and the crankshaft so that the valves operate efficiently and safely. Older cars may have a timing chain, similar to a chain on a motorcycle, with a life cycle of around 60,000 miles. Newer models use timing belts made of polyurethane and Kevlar for long life and durability. They can go as long as 100,000 miles although it’s always a good idea to change it before then. Belt failure can cause extensive damage to the valves, pistons and other internal parts of the engine. The cost of changing the timing belt is a bargain when you consider the cost to replace the entire engine. Start thinking about changing the timing belt once you cross the 90,000-mile threshold. Check your owner’s manual for details.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$288	$535	**$823**
Dealership	$383	$712	**$1,095**

Timing Chain Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$819	$1,336	**$2,155**

Tire Pressure (TPMS) Sensor - Replace

A tire pressure sensor is designed to warn that one or more of your tires is underinflated. All cars built since 2007 are required to have this system. The most common sensor uses a battery and operates via a wireless transmitter mounted inside the rim of your tire's wheel. When it detects low pressure, it sends a signal to your vehicle's computer system that shows up on your instrument panel as an icon of a tire or some other alert. Most warn of low pressure without indicating a specific tire, while more advanced systems can flag an individual wheel or indicate the pressure in each tire. The batteries in tire pressure sensors last around five to seven years but sometimes they can fail earlier. The sensors can also be damaged from potholes or other sudden jarring. Replacing the sensor is easy for a tire retailer or your dealership service department. Your service technician will also electronically reset the system after replacing the sensors or whenever you replace your tires.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$117	$176	**$293**
Dealership	$124	$187	**$311**

Tire(s) - Mount & Balance (4 Wheels)

Just getting a new tire doesn't always result in a smooth ride. Because of manufacturing and mounting irregularities, tires need to be balanced by adding counter-balancing weights to certain parts of the wheel.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$233	**$233**

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$0	$240	**$240**

Tire(s) - Patch

A flat tire doesn’t necessarily mean that the tire needs replacement. Patching and plugging kits can fix holes in tires caused by small sharp objects like nails and screws. Patching the tire uses an internal patch to cover the opening and requires the tire to be removed from the rim. A plug fixes a hole externally, so in some cases, the tire doesn’t need to be taken off.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$28	$41	**$69**
Dealership	$29	$42	**$71**

Tire(s) - Rotate

Done every 5,000 miles or so, a tire rotation is the act of moving tires around your car, truck or SUV so the tires wear evenly. Some vehicles have “staggered” tire sizes, meaning that the fronts are smaller than the rears. In this case, they can only be rotated from left to right (or vice versa). Some high-performance tires shouldn’t be rotated at all, since they’re made to turn in one direction only (usually indicated by an arrow on the tire’s sidewall). As always, consult your owner’s manual for more information.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$54	**$54**
Dealership	$0	$65	**$65**

Tire(s) - Rotate & Balance (4 Wheels)

Done every 5,000 miles or so, a tire rotation is the act of moving tires around the vehicle so they have the opportunity to wear evenly. Some vehicles use “staggered” tire sizes meaning the fronts are smaller than the rears. In this case, they can only be rotated from left to right (and vice versa). Some high-performance tires shouldn’t be rotated at all, since they’re made to turn in one direction only (usually indicated by an arrow on the tire’s sidewall). As always, consult your owner’s manual for more information. Mounting new tires or rotating existing ones doesn’t always result in a smooth ride. Because of manufacturing and mounting irregularities, tires need to be balanced by adding counter-balancing weights to certain parts of the wheel.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$109	**$109**
Dealership	$0	$107	**$107**

Transmission - Replace

A transmission takes your engine’s energy and delivers it to the wheels that drive your vehicle. It is one of the most major – and expensive – repairs you can do. A transmission can fail for almost as many reasons as there are parts inside, and often, it’s easier to replace it than repair it. You are not only paying for the new or rebuilt replacement transmission but also for the labor required to remove the old unit then replace it with a new one. A time-consuming operation, this involves disconnecting fluid lines, electrical wiring, engine mounts, exhaust system components, axles or driveshafts and more. A transmission replacement can be performed by a transmission specialist or by a technician at your dealership’s service department. It is always better to avoid having to go this route by explicitly following the service schedule found inside your vehicle’s owner’s manual.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$3,325	$1,790	**$5,115**
Dealership	$4,020	$2,165	**$6,185**

Transmission Fluid - Flush

Most new vehicles are equipped with an automatic transmission. As a result, there's not really much maintenance to perform. Still, most owner's manuals will recommend changing the transmission fluid every 90,000 miles or so. Flushing your transmission's fluid has fallen out of vogue in recent years because the high-pressure cleaning involved may dislodge debris inside the transmission that can literally gum up the works. By following your vehicle's maintenance schedule, your car's gearbox will offer years of trouble-free driving. For more information check with your owner's manual and your dealership service advisor.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$153	$186	**$339**
Dealership	$141	$172	**$313**

Turbo Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$1,417	$868	**$2,285**

Valve Cover Gasket Replacement

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$115	$432	**$547**

Water Pump - Replace

The water pump is an essential component that keeps the coolant circulating, a critical role in ensuring that the engine maintains the proper operating temperature. Without coolant being circulated, the engine will overheat, leading to premature wear and damage. A failing water pump can also leak causing

further loss of coolant. Water pumps are designed to last at least 100,000 miles, however, if your water pump fails, you should replace it with a high-quality original-equipment level unit. Less expensive replacement pumps are available, but they might only have a service life of 30,000 miles.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$280	$421	**$701**
Dealership	$370	$555	**$925**

Wheel Locks - Install

Designed to prevent the theft of your vehicle’s expensive rims, lug nut wheel locks are a relatively inexpensive way to at least slow down the bad guys. The unfortunate truth is that if someone really wants them, they will probably get them. The object of the wheel lock is to prevent or at least slow that process down. Typically, a set of wheel locks will include four locks (one lock per wheel) and at least one key to put the wheel locks on and off. Remember where you put the key and also to never over-torque the wheel lock to the lug nut.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$85	$28	**$113**
Dealership	$87	$29	**$116**

Wheels - Alignment

Alignment is the process of making sure all 4 wheels point in the same direction, which will cause the vehicle to drive straight and not drift. Performing this service regularly (yearly or after the vehicle starts drifting) will extend the life of your tires. Alignment is measured in degrees of camber (tire leaning inward or outward), caster (forward or backward slope of steering components in relation to the McPherson struts) and toe (the direction the tires are pointing). Toe-in means that the tires are pointing inward; toe-out means that the tires are pointing outward. Most vehicles are “averaged” for everyday driving.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$0	$188	**$188**
Dealership	$0	$214	**$214**

Window Regulator Replacement - Rear

SHOP TYPE	PARTS	LABOR	TOTAL COST
Dealership	$227	$356	**$583**

Wiper Blades - Replace 1 Front Wiper

Consider them part of the vehicle’s safety equipment: If you can’t see through the windshield, you are likely putting yourself, your family and your vehicle at risk. You should aim to replace your wiper blades every six months to a year, due to the toll they take from extreme heat and humidity, which work to cut down the useful life of your blades.

SHOP TYPE	PARTS	LABOR	TOTAL COST
Independent Shop	$52	$13	**$66**
Dealership	$51	$13	**$64**

Recommended Maintenance Schedule

Key maintenance milestones for this vehicle.

30,000 Miles Service

- Rotate tires and inspect for wear
- Change engine oil and replace oil filter
- Replace engine air filter
- Inspect automatic transmission fluid level
- Inspect brake pads, shoes, rotors, drums, brake linings and hoses and parking brake system
- Inspect cabin air filter (if equipped)
- Inspect engine cooling system and hoses
- Inspect exhaust system and heat shields
- Inspect half-shaft boots
- Inspect steering linkage, ball joints, suspension, tie rod ends, driveshaft, and U-joints. Lubricate any areas with fittings.
- ...and 3 more items

60,000 Miles Service

- Rotate tires and inspect for wear
- Change engine oil and replace oil filter
- Replace cabin air filter
- Replace engine air filter
- Inspect automatic transmission fluid level
- Inspect brake pads, shoes, rotors, drums, brake linings and hoses and parking brake system
- Inspect cabin air filter (if equipped)
- Inspect engine cooling system and hoses
- Inspect exhaust system and heat shields
- Inspect half-shaft boots
- ...and 4 more items

90,000 Miles Service

- Rotate tires and inspect for wear
- Change engine oil and replace oil filter
- Replace engine air filter
- Inspect automatic transmission fluid level
- Inspect brake pads, shoes, rotors, drums, brake linings and hoses and parking brake system
- Inspect cabin air filter (if equipped)
- Inspect engine cooling system and hoses
- Inspect exhaust system and heat shields
- Inspect half-shaft boots
- Inspect steering linkage, ball joints, suspension, tie rod ends, driveshaft, and U-joints. Lubricate any areas with fittings.
- ...and 3 more items

120,000 Miles Service

- Rotate tires and inspect for wear
- Change engine oil and replace oil filter
- Replace cabin air filter
- Replace engine air filter
- Inspect accessory drive belt(s)
- Inspect automatic transmission fluid level
- Inspect brake pads, shoes, rotors, drums, brake linings and hoses and parking brake system
- Inspect cabin air filter (if equipped)
- Inspect engine cooling system and hoses
- Inspect exhaust system and heat shields
- ...and 5 more items

150,000 Miles Service

- Rotate tires and inspect for wear
- Change automatic transmission fluid and filter
- Change engine coolant - (Green)
- Change engine oil and replace oil filter
- Replace accessory drive belts

- Replace engine air filter
- Inspect automatic transmission fluid level
- Inspect brake pads, shoes, rotors, drums, brake linings and hoses and parking brake system
- Inspect cabin air filter (if equipped)
- Inspect engine cooling system and hoses
- ...and 6 more items

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