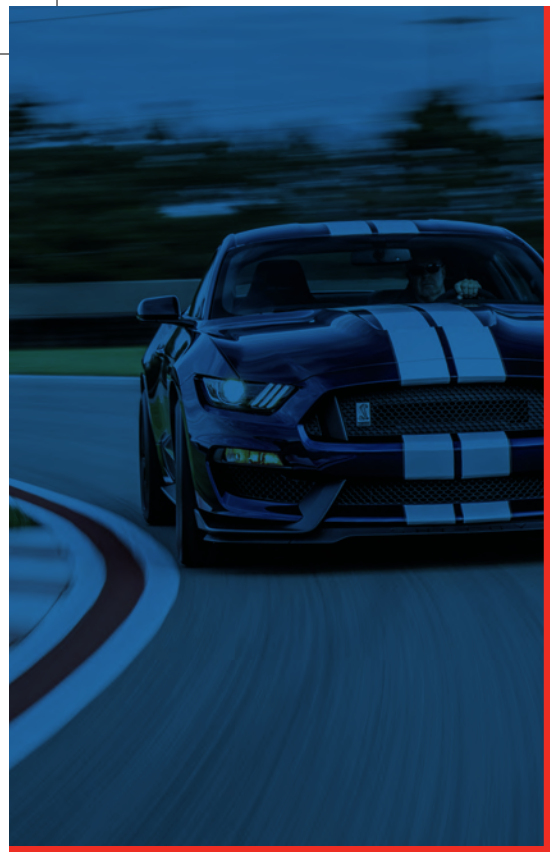

This supplement is not intended to replace your vehicle Owner's Manual, which contains more detailed information concerning the features of your vehicle as well as important safety warnings designed to help reduce the risk of injury to you and your passengers. Please read your entire Owner's Manual carefully as you begin learning about your new vehicle and refer to the appropriate sections when questions arise.

All information contained in this supplement was accurate at the time of publication. We reserve the right to change features, operation and/or functionality of any vehicle specification at any time. Your Ford dealer is the best source for the most current information. For detailed operating and safety information, please consult your Owner's Manual.

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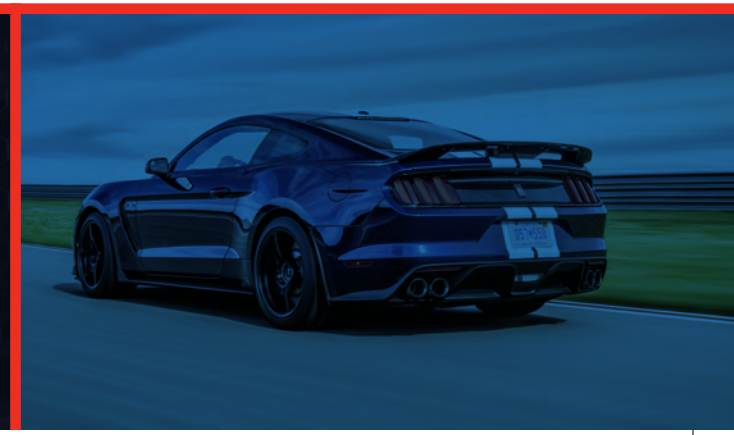
owner.ford.com (U.S.)

ford.ca (Canada)

FORD PERFORMANCE

2020 SHELBY GT350®
MUSTANG SUPPLEMENT



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Part Number: 201906 20190613181318

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Mustang (CZG) GT350, United States of America, Vehicles With: SVT Performance Package, enUSA, Edition date: 201906, First-Printing

ABOUT THIS SUPPLEMENT

Congratulations on your decision to purchase or lease the latest from Ford Performance. If you have owned or leased a Ford Performance product in the past, we are glad you are back. If this is your first Ford Performance vehicle, welcome to the Ford Performance family! We are confident that our dedication to performance, quality, craftsmanship and customer service will provide many miles of exhilarating, safe and comfortable driving in your new vehicle.

E289727

Your choice of a Ford Performance product is an intelligent and informed one. Ford Performance strives to build engaging vehicles that involve the driver in every aspect of the driving experience. Although performance is at the heart of every Ford Performance vehicle, we go much further. Our goal is to deliver a comprehensive, complete vehicle, sweating the details such as the sound of the exhaust, the quality of the interior materials, and the functionality and the comfort of the seats, to make sure that the driver enjoys not only exceptional performance, but an outstanding driving environment as well. In your Ford Performance vehicle, that philosophy is expressed by a sophisticated powertrain, outstanding chassis dynamics and significant interior and exterior enhancements.

This supplement complements your Mustang Owner's Manual and provides information specific to your Ford Performance vehicle. By referring to the pages listed in this supplement, you can identify those features, recommendations

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and specifications unique to your new vehicle. If there are any discrepancies between this supplement and the Mustang Owner's Manual, this supplement shall supersede the information found in the Mustang Owner's Manual.

If you have any questions or concerns regarding your Ford Performance vehicle, please call the Ford Performance Info Center at 1-800-367-3788.

SVT History

The Ford Special Vehicle Team (SVT) was established in 1991 to polish the Ford Oval by creating low-volume, factory-produced vehicles designed for those select few whose idea of driving is a high-powered, passionate experience – not just a means of getting from point A to point B.

In a move to support this spirited enthusiasm, Ford Motor Company carefully integrated the wide array of talent in the company into a small, cross-functional group of engineers and product planners, housed together under one roof with a common mission: to create vehicles specifically designed to meet the unique needs and desires of the knowledgeable driving enthusiast.

More than 400,000 SVT and Ford Performance vehicles were produced since the 1993 model year. These include the SVT Mustang Cobra and the Cobra R, the SVT F-150 Lightning, the SVT Contour, the SVT Focus, Ford GT, Shelby GT500, GT500KR and the F-150 SVT Raptor.

Team RS History

TeamRS traces its roots back nearly 60 years from the Lotus Ford Cortina and Twin Cam Escorts of the mid 1960's, through the first RS branded Escorts of the 1970's to the founding of Special Vehicle Engineering (SVE) in 1980. Through the 1980s and 90s, SVE delivered a breadth of vehicles from exciting XR and RS branded road going performance cars through homologation specials such as the iconic Sierra Cosworth RS500. The first ST (Sport Technology) vehicle appeared in 1996 as the ST24 Mondeo. The first collaboration between Ford's European and North American performance teams appeared in 2002 as the ST170 in Europe and SVT Focus in North America. In 2003, TeamRS replaced SVE in Europe as performance car and motorsport personnel were brought together as one team. TeamRS subsequently created the 2004 Fiesta ST, 2005 Focus ST and 2009 Focus RS.

Ford Performance

SVT and Team RS officially began working together as one team in 2009. In 2015, these two teams, along with Ford Racing, were formally combined establishing Ford Performance as a single team responsible for all performance and racing oriented products and activities worldwide at Ford Motor Company. Your Ford Performance vehicle represents the best of what Ford Performance has to offer from around the globe. We designed and developed your vehicle with the four hallmarks of Ford Performance in mind: Performance, Substance, Exclusivity and Value. We are proud and passionate about what we do, and we are glad you have made us your choice.

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E289724

Powertrain

- 5.2L Flat plane crank engine.
- Large bore electronic throttle body.
- Cold air intake and filter.
- Tubular exhaust manifolds.
- High flow dual exhaust with X-pipe and dual mode mufflers.
- Unique R exhaust with reduced back pressure and lighter weight.
- Tremec 3160 6-speed manual transmission.
- Dual disc clutch.
- Dual mass flywheel.
- 3.73 Torsen differential with GT350 specific bias ratios.
- Transmission, differential and engine oil coolers.

Chassis

- Electric power assisted steering.
- 6-piston front, 4-piston rear Brembo calipers, and front cooling ducts.
- Two-piece front and rear rotors.
- MagneRide dampers and sensors.
- Lightweight tower to tower brace.
- Adjustable camber front strut mounts (if equipped).

Exterior

- Unique aerodynamics with splitter, grilles, underbody shield, diffuser, air curtains.
- Handling package with spoiler Gurney and adjustable camber front strut top mounts (if equipped).
- Aluminum hood with center air extractor.

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- Aluminum front fenders with air extractors.
- Aluminum front bumper.
- Lightweight aluminum wheels.
- Carbon fiber wheels (GT350R model only).
- Michelin Pilot Sport Cup 2 tires.
- Optional over the top stripes.

Interior

- SYNC 3 (8 inch screen).
- Navigation (if equipped).
- Launch Control.
- Drive mode control (Normal, Sport, Track, Drag Strip, Slippery).
- Performance shift indicator light.
- Unique instrument panel and gauges.
- 9-speaker system with satellite radio.
- 12-speaker system with satellite radio (if equipped).
- Dual zone electronic climate control.
- Recaro seats.
- 6-way power climate controlled leather seats (if equipped).
- Rear seat delete (GT350R model only).
- Lightweight battery.

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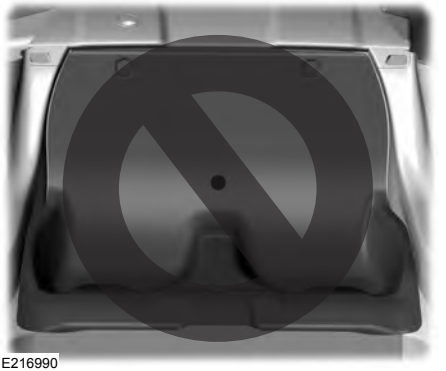
INSTALLING CHILD RESTRAINTS

Rear Seat Delete (If Equipped)

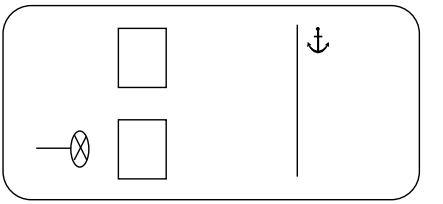
WARNING: It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a crash, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and seatbelts. Make sure everyone in your vehicle is in a seat and properly using a seatbelt. Failure to follow this warning could result in serious personal injury or death.



E216990

This is not a seating position. You cannot place persons or child restraints in the rear of the vehicle with the rear seat delete option.

Vehicles Without Rear Seats



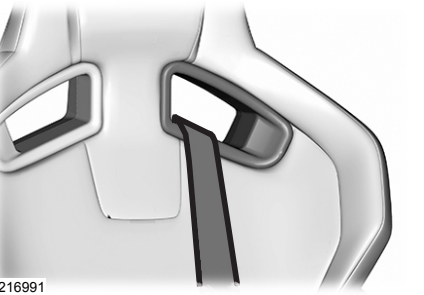
E216824

Once you have installed the child restraint using the seatbelt, you can attach the top tether strap.

Attach the tether strap only to the appropriate tether anchor as shown. The tether strap may not work properly if you attach it somewhere other than the correct tether anchor.

Perform the following to attach a child restraint to the tether anchor.

Route the tether strap as follows.



E216991

For coupe without rear seats, route the tether strap through the inboard slot of the front passenger seat backrest or route the tether strap over the top of the seat. You may need a tether strap extension to reach the tether anchor.

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If you install a child restraint and you attach the top tether strap to the proper top tether anchor, do not tighten the tether strap enough to lift the child restraint off the vehicle seat cushion when the child is seated in it. Keep the tether strap just snug without lifting the front of the child restraint. Keeping the child restraint just touching the vehicle seat gives the best protection in a severe crash.

See the Child Safety chapter in your base Owner's Manual for more information.

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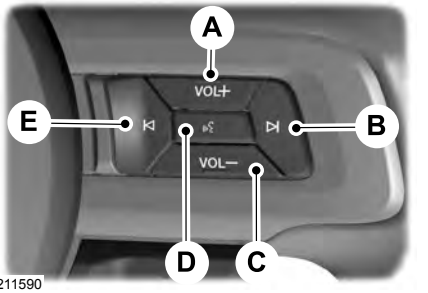
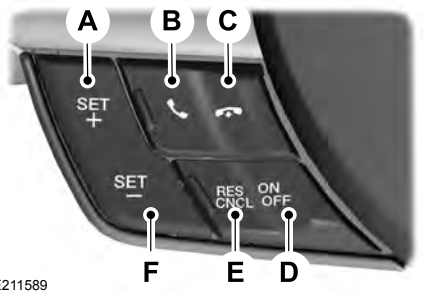
AUDIO CONTROL



E211590

A Volume up.
B Seek up or next.
C Volume down.
D Voice recognition.
E Seek down or previous.

VOICE CONTROL

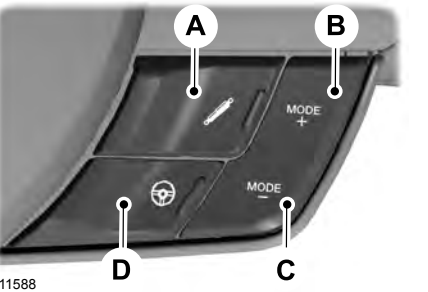


E211589

A Cruise control set and increase.
B Answer call.
C End call.
D Cruise control on and off.
E Cruise control resume and cancel.
F Cruise control set and decrease.

DRIVE MODE CONTROL

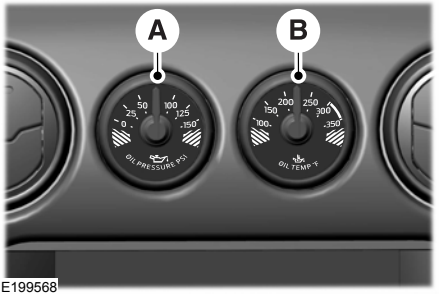
Press any of the buttons to display a menu screen. Press the button a second time to toggle between the options.



E211588

A Damper.
B Drive Mode +.
C Drive Mode -.
D Steering Effort.

GAUGES



E199568

A Oil pressure gauge - Indicates the engine oil pressure.

B Oil temperature gauge - Indicates the engine oil temperature.

GENERAL INFORMATION

Virtual Gauges

Virtual Gauges consist of the following gauges that are available in digital display mode or Analog display mode (if equipped).

Digital speedometer

E212299

Displays vehicle speed in mph or km/h.

Tire pressure

E212300

Displays tire pressure by location in psi, bar, or kPa.

Air inlet temperature

E212429

Displays the temperature of the air in the cold air inlet tube.

Air/Fuel ratio

E212430

Displays the current air to fuel mixture in the engine.

Voltage

E212431

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Displays the vehicle battery voltage.

Cylinder head temperature

E224200

Displays the engine cylinder head temperature.

Engine oil temperature

E212301

Displays the engine oil temperature.

Engine oil pressure

E212302

Displays the engine oil pressure.

Transmission oil temperature

E212303

Displays the transmission oil temperature.

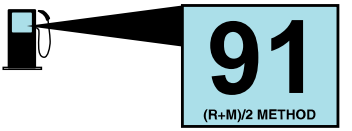
Axle oil temperature

E212304

Displays the axle oil temperature.

FUEL QUALITY

Choosing the Right Fuel



E185193

Use only premium unleaded gasoline with a minimum pump (R+M)/2 octane rating of 91. For optimal performance, use premium unleaded gasoline with an octane rating of 93 or higher.

The use of the correct fuel is an important part of the proper maintenance of your vehicle, and a condition of the vehicle Warranty. For this vehicle, the use of gasoline with an octane level of 91 or higher is required. The use of gasoline with an octane rating lower than 91 will invalidate the vehicle Warranty. It can degrade vehicle performance and lead to severe mechanical damage.

Do not be concerned if the engine sometimes knocks lightly. However, if the engine knocks heavily while using fuel with the recommended octane rating, contact an authorized dealer to prevent any engine damage.

We recommend Top Tier detergent gasolines, where available to help minimize engine deposits and maintain optimal vehicle and engine performance. For additional information, refer to www.toptiergas.com.

Note: *Use of any fuel other than those recommended can impair the emission control system and cause a loss of vehicle performance.*

Do not use:

- Diesel fuel.
- Fuels containing kerosene or paraffin.
- Fuel containing more than 15% ethanol or E85 fuel.
- Fuels containing methanol.
- Fuels containing metallic-based additives, including manganese-based compounds.
- Fuels containing the octane booster additive, methylcyclopentadienyl manganese tricarbonyl (MMT).
- Leaded fuel, using leaded fuel is prohibited by law.

The use of fuels with metallic compounds such as methylcyclopentadienyl manganese tricarbonyl (commonly known as MMT), which is a manganese-based fuel additive, will impair engine performance and affect the emission control system.

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MANUAL TRANSMISSION

E193849

Using the Clutch

The manual transmission has a starter interlock that prevents cranking the engine unless the clutch pedal is fully pressed.

To start the vehicle:

1. Make sure the parking brake is fully set.
2. Press the clutch pedal to the floor, then put the gearshift lever in the neutral position.
3. Start the engine, then press the brake pedal and release the parking brake.
4. Move the gearshift lever to first gear, then slowly release the clutch pedal while slowly pressing on the accelerator.

Note: *During each shift, the clutch pedal must be fully pressed to the floor and the accelerator fully released. Failure to follow this may cause increased shift efforts, prematurely wear transmission components, or cause gear clash or damage to the transmission. Make sure the floor mat is properly positioned so it does not interfere with the full extension of the clutch pedal.*

Note: *If you attempt to shift when the drive wheels are spinning with a loss of traction, it is possible to cause damage to the transmission. Do not attempt to shift when the drive wheels do not have traction.*

Do not drive with your foot resting on the clutch pedal or use the clutch pedal to hold your vehicle at a standstill while waiting on a hill. These actions will reduce the life of the clutch.

Your vehicle is equipped with a twin disc clutch. Due to the high performance of the powertrain, a certain amount of noise from the transmission is normal.

Clutch Protection

Your vehicle is equipped with an electronic powertrain feature to reduce clutch damage. When excessive clutch slip is detected at a high power level, the powertrain control module will limit torque to reduce damage to the clutch. Full power is restored as soon as the clutch is fully engaged. This feature is calibrated in a way that does not interfere with normal driving and does not impede maximum acceleration capability.

Recommended Shift Speeds for Maximum Fuel Economy

Upshift according to the following chart:

Shift from	Recommended speed
1 - 2	13 mph (21 km/h)
2 - 3	24 mph (39 km/h)
3 - 4	31 mph (50 km/h)
4 - 5	39 mph (63 km/h)
5 - 6	43 mph (69 km/h)

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TECHNICAL SPECIFICATIONS

Item	Description	
Transmission	Tremec 6-speed manual with 215 millimeter dual clutch and dual mass flywheel.	
Driveshaft Rear Axle	3.73	
Gear Ratios	Gear	Ratio
	1st	3.25
	2nd	2.23
	3rd	1.61
	4th	1.24
	5th	1.00
	6th	0.63
	Reverse	2.95

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GENERAL INFORMATION

Your vehicle has a brake system designed for high speed and superior fade resistance. You may notice occasional brake squeal and elevated levels of brake dust. This is normal and does not affect brake system performance.

Prior to track use, replace the brake fluid with fresh Motorcraft/Ford DOT 4 LV High Performance Brake Fluid or other DOT compliant fluid with a dry boiling point greater than 500°F (260°C) from a sealed container. Do not use silicone or DOT 5 brake fluids.

Front Brake System

SHW® Multi-piece brake disc with the following features:

- Iron brake ring with directional vent design, including a large effective radius and swept area. Specially designed for storing and dissipating braking energy during track usage.
- Aluminum hat for significant weight savings.
- Floating stainless steel pin design maintains excellent on-road performance while allowing radial expansion during track usage.

Aluminum Knuckle with Heavy-Duty Wheel Bearing

- Aluminum knuckle designed for high stiffness while reducing weight.
- Heavy-duty front wheel bearing designed for track usage.

Six-Piston Monobloc Brembo® caliper with the following features:

- Staggered piston design provides even pad wear on the street and track.
- Fixed bridge and radial mount provides maximum caliper stiffness for excellent pedal feel at minimum weight.

Rear Brake System

SHW® Multi-piece brake disc with the following features:

- Iron brake ring with vented design and large effective radius. Specially designed for storing and dissipating braking energy during track usage.
- Aluminum hat for significant weight savings with iron lining for parking brake function.
- Floating stainless steel pin design maintains excellent on-road performance while allowing radial expansion during track usage.

Four-Piston Monobloc Brembo® caliper with the following features:

- Staggered piston design provides even pad wear on the street and track.
- Reduced drag compared to sliding calipers, especially during track usage.
- Consistent appearance theme with front caliper.

Drum-In-Hat Parking Brake

- Decouples parking brake function from rear caliper, eliminating caliper design compromises.
- Provides superior parking brake performance and feel for hand brake lever.

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USING STABILITY CONTROL

The traction and stability control enhancement system provides different modes of operation for various driving conditions. The system integrates braking, steering and powertrain systems using anti-lock brakes, traction control, electric power-assisted steering and Launch Control to optimize the performance for all driving conditions. See **Drive Control** (page 19).

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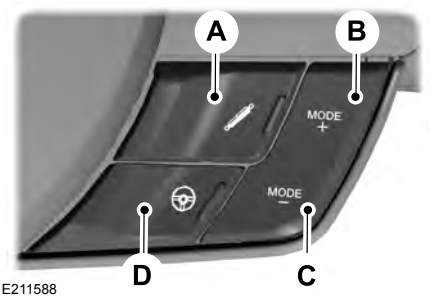
DRIVE CONTROL

Selectable Drive Modes

Selectable drive modes deliver a customized driving experience using a variety of electronic vehicle systems. The systems optimize vehicle dynamics and powertrain response based on your selected mode. Systems associated with selectable drive modes are:

- Electronically power assisted steering.
- Electronic stability control and traction control maintain your vehicle control in adverse conditions or high performance driving.
- Electronic throttle control enhances the powertrain response to your driving input.
- Adaptive dampers.
- Active exhaust adjusts the sound characteristics of your vehicle.



E211588

A Adaptive damper
B Drive mode +
C Drive mode -
D Selectable steering

There are five drive modes you can access by pressing the mode buttons on the steering wheel.

Drive Modes

Note: *Drive mode changes are not available when the ignition is off or when the transmission is in reverse.*

- ***Normal*** – Used for normal, everyday on road driving. Vehicle response tuned for all-around street driving.
- ***Sport*** – Used for spirited on road driving. Vehicle response tuned for on road performance.
- ***Track*** **(Track Use Only)** – Used for spirited, aggressive and limit handling while at race tracks or auto crosses. While retaining some system aids, wheel spin and yaw limits open so they do not interfere with a skilled driver.
- ***Drag Strip*** **(Track Use Only)** — Used at the drag strip. You can choose to use Launch Control in conjunction with this drive mode. Optimized for drag strip launches.
- ***Slippery***— Used for wet conditions on public roads. System limits yaw and wheel spin to tighter limits than ***Normal*** mode.

Selectable Steering

Note: *The steering setting defaults to* ***Normal*** *if the battery is disconnected or removed.*

Press the button on the steering wheel to change the steering feel. The first press illuminates the current mode. Subsequent presses changes the mode.

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Selectable steering modes:

- ***Normal*** — Standard steering efforts and feedback.
- ***Sport*** — Slightly higher effort required for steering with more road force felt through the steering wheel.
- ***Comfort*** — Slightly less effort required for steering with less road force felt through the steering wheel.

Note: *You may feel a soft feedback bump in the steering wheel after you make a selection.*

Adaptive Dampers

Press the button on the steering wheel to adjust the suspension. The first press illuminates the current mode. Subsequent presses changes the mode.

Adaptive damper modes:

- ***Normal*** — Available in ***Normal*** and ***Sport*** drive modes.
- ***Sport*** — Available in ***Normal***, ***Sport*** and ***Track*** drive modes.
- ***Track*** — Available only in ***Track*** drive mode.
- ***Drag Strip***— Available only in ***Drag Strip*** drive mode.

Active Exhaust

Toggle the switch on the center stack to adjust the tone of the exhaust between ***Normal*** and ***Sport***. The first press illuminates the current mode. Subsequent presses changes the mode.

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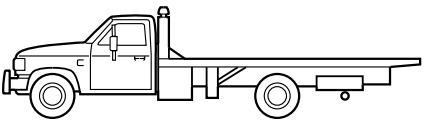
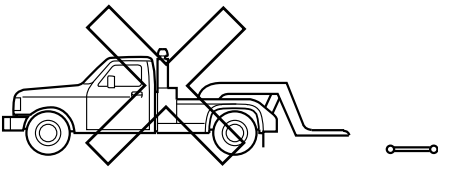
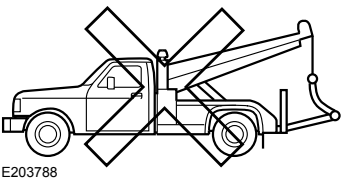
TOWING A TRAILER

WARNING: Your vehicle is not approved for trailer towing. Never tow a trailer with your vehicle.

TRANSPORTING THE VEHICLE







E203788

If you need to have your vehicle towed, contact your roadside assistance center or a professional towing service.

We recommend that your vehicle be towed with flatbed equipment only. When towing with a flatbed, race ramps or wood ramps must be used when loading or unloading your vehicle. Wheel baskets are required when flatbed towing.

Note: *Do not tow with a slingbelt or wheel lift equipment.*

Note: *If the vehicle is towed by other means or incorrectly, vehicle damage may occur.*

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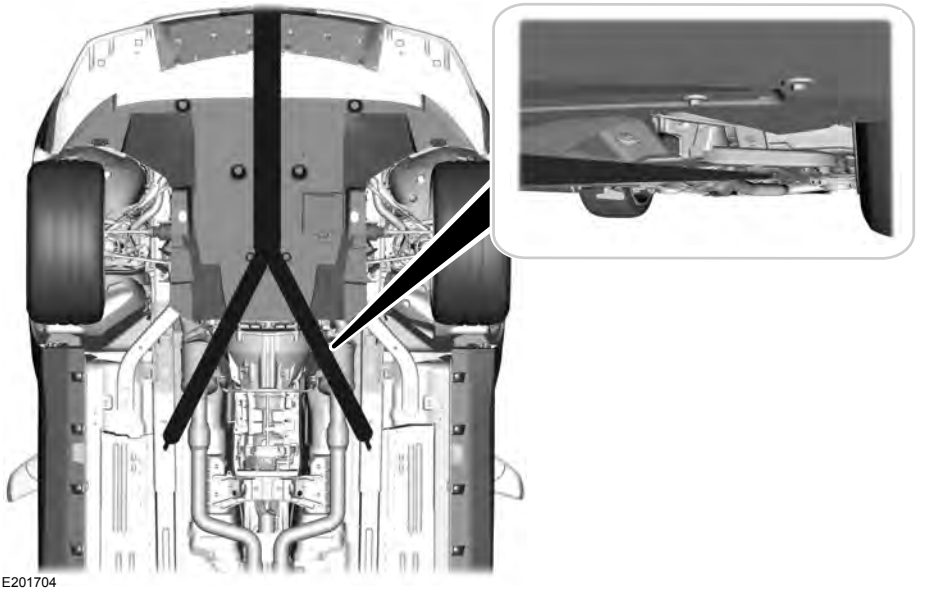
Transportation Instructions



Two mini J hooks should be used when the vehicle is towed. The hooks should be attached to the oblong holes in rails as shown to winch the vehicle onto the flatbed. Use tire slings only to tie the vehicle down to the flatbed. Other methods may damage the vehicle.

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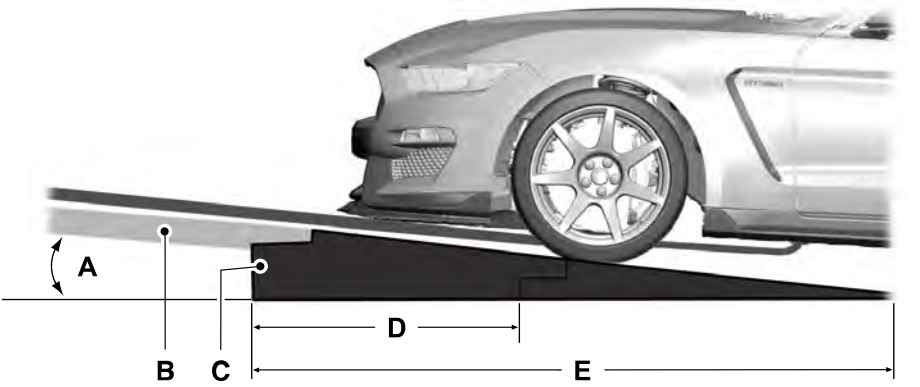
Preferred Flatbed Method



E213831

A	Seven degrees maximum.
B	Tow vehicle ramp.
C	Race ramps.
D	30 in (76 cm) minimum.
E	70 in (178 cm) minimum.

Use race ramps to load the vehicle.

The diagram illustrates the maximum ramp angle allowable to load your vehicle on a flatbed. Vehicle damage may occur with greater angles.

Ramps must be used to achieve appropriate undercarriage clearances.

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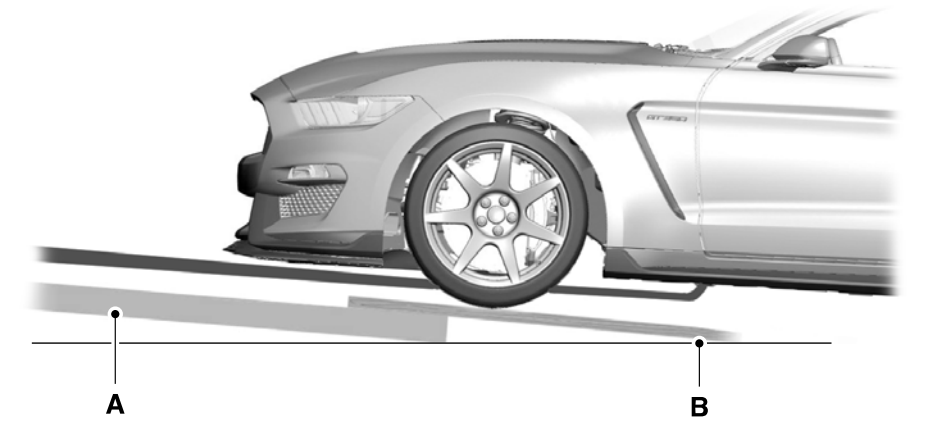
Alternate Flatbed Method



E196912

A Tow vehicle ramp.

B Wooden ramp.

Use 2 inch x 8 inch x 8 foot wooden ramps to load the vehicle.

The diagram illustrates the maximum ramp angle allowable to load your vehicle on a flatbed. Vehicle damage may occur with greater angles.

Blocks must be used to achieve appropriate undercarriage clearances.

Transporting or Trailering - GT350R Only

Due to low ground clearance, your vehicle is transported from the assembly plant to the dealer with front and rear suspension spacers installed. These are removed by the dealer prior to customer delivery and are provided with the vehicle. If you plan to transport or trailer your vehicle and need additional clearance, the spacers may be reinstalled for additional underbody clearance.

Note: *Suspension spacers must be removed before driving your vehicle. Failure to remove the spacers may cause damage to suspension components and degrade vehicle performance.*

Note: *It is only possible for you to install or remove the suspension spacers while the vehicle is raised in the air.*

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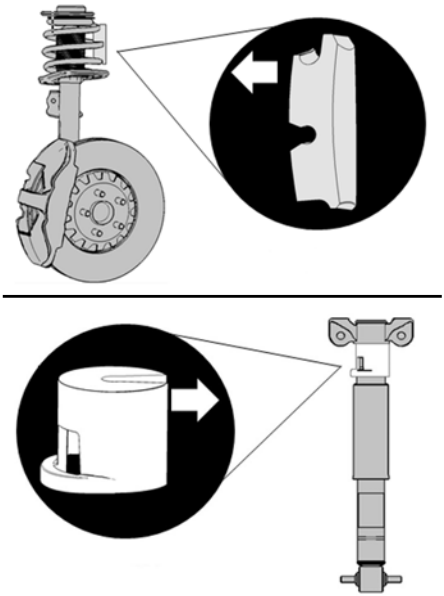

E250502

Front Suspension

Insert the top of the spring spacer onto the spring first, then snap the bottom of the spacer into place.

Rear Suspension

Slide the shock absorber dust boot down by hand, then snap the spacer into place around the shock rod.

BREAKING-IN

Your vehicle requires a break-in period. Drive your new vehicle at least 100 mi (160 km) before performing extended wide open throttle maneuvers and at least 1,000 mi (1,600 km) before operating your vehicle at high speeds or track conditions.

Note: *Vary your speed frequently in order to give the moving parts a chance to break in.*

Ground Clearance

Since ground clearance is reduced, use caution when approaching curbs or curb stops from the front and rear as vehicle damage will occur. Additionally, when crossing speed bumps or driveway curbs, Ford Performance recommends approaching at a 45 degree angle to reduce the risk of vehicle damage.

Your vehicle carries the same warranty as other Ford models. Damage caused by accidents, crashes or objects striking the vehicle (including driving through a car wash) or misuse of the vehicle, such as driving over curbs, overloading or racing is not covered under the new vehicle limited warranty. See the Warranty Guide for complete information.

Cold Engine Operation

Your vehicle is designed to restrict engine power and RPM when the engine is cold. The engine RPM and power output is reduced until the engine reaches full operating temperature.

Your vehicle may not start if the outside temperature is too low. If the vehicle does start, it may require some time for the transmission fluid to warm up before you can shift from park (P).

DRIVING THROUGH WATER

The GT350 has aerodynamic devices attached to the underbody designed to help control airflow for superior performance. Therefore, the driver must be especially careful to avoid driving through deep or standing water. If driving through deep or standing water is unavoidable, do not exceed 10 mph (16 km/h). Never drive through water that is higher than the bottom of the wheel rims. Water may enter through the air intake due to the vacuum generated in the engine. Damage caused by the intake of water in the engine is not covered by the warranty.

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FUSE SPECIFICATION CHART

See the Owner's Manual for your vehicle's fuse information.

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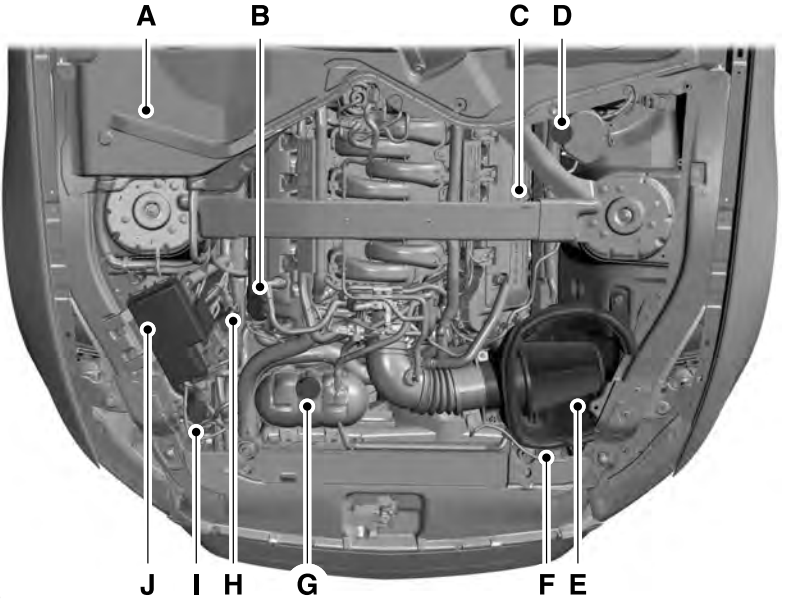
UNDER HOOD OVERVIEW



A Battery.
B Engine oil filler cap.
C Engine oil dipstick.
D Brake fluid reservoir.
E Air filter assembly.
F Cold air induction system.
G Engine coolant reservoir.
H Powertrain control module.
I Windshield washer reservoir.
J Power distribution box.

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ENGINE OIL CHECK

See the scheduled maintenance information (including the "Protecting Your Investment" section) for the appropriate intervals for checking the engine oil.

Note: *For operating your vehicle on a track, follow the recommended instructions for engine oil changes. See* ***Track Use*** *(page 33).*

1. Make sure the vehicle is on level ground.
2. Turn the engine off and wait 15 minutes for the oil to drain into the oil pan.
3. Set the parking brake and make sure that the transmission is in park (P).
4. Open the hood. Protect yourself from engine heat.
5. Locate and carefully remove the engine oil level dipstick.
6. Wipe the dipstick clean. Insert the dipstick fully, then remove it again.
7. Put the dipstick back in and make sure it is fully seated.

- If the oil level is between the lower and upper holes, the oil level is acceptable. DO NOT ADD OIL.
- If the oil level is below the lower hole, add enough oil to raise the level within the lower and upper holes.

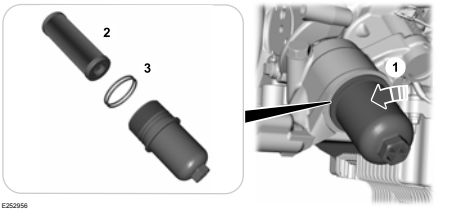
Engine Oil Recommendation

Use Motorcraft SAE 5W-50 full synthetic or an equivalent SAE 5W-50 full synthetic oil meeting Ford specification WSS-M2C931-C.

Do not use supplemental engine oil additives, cleaners or other engine treatments. They are unnecessary and could lead to engine damage that is not covered by Ford warranty.

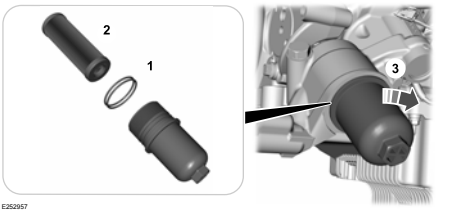
Change your engine oil and filter according to the appropriate schedule listed. See **Scheduled Maintenance** (page 56).

CHANGING THE ENGINE OIL AND OIL FILTER



1. Loosen the oil filter housing and allow the oil to drain.
2. Remove the oil filter housing and discard the oil filter element.
3. Remove and discard the O-ring seals.
4. Wipe the O-ring seal surfaces and threads with a clean rag.

Inspect the oil filter housing and stem for damage including cracks or separation of the stem from the housing. If damaged, you must install a new oil filter housing assembly. Also, make sure you remove all components of the oil filter from the housing and oil filter adapter.



1. Install new O-ring seals on the oil filter housing and lubricate with clean engine oil.

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Note: *Failure to install new oil filter housing-to-engine oil filter adapter seals may result in oil leakage.*

Note: *The smallest o-ring that comes with the filter is not used in this application.*

2. Install a new oil filter element.
3. Install the oil filter housing. Torque to 16–19 lb.ft (22–26 Nm) using a torque wrench.

Note: *Use only a Motorcraft FL-2087 oil filter for maximum performance, reliability and durability.*

Note: *The use of any oil filter other than the dealer supplied oil filter may cause engine damage.*

See the Engine Oil Check section in the Maintenance chapter of your Owner's Manual for information on checking the engine oil.

ENGINE COOLANT CHECK

The concentration and level of engine coolant should be checked at the mileage intervals listed in the scheduled maintenance information.

Note: *Make sure that the level is between the **MIN** and **MAX** marks on the engine and coolant reservoirs.*

Note: *Coolant expands when it is hot. The level may extend beyond the **MAX** mark. If the level is at the **MIN** mark, add coolant immediately.*

The coolant concentration should be maintained within 48% to 50%, which equates to a freeze point between -30ºF (-34ºC) and -34ºF (-37ºC).

Note: *For best results, coolant concentration should be tested with a refractometer such as Rotunda tool 300-ROB75240 available from your dealer. We do not recommend the use of hydrometers or coolant test strips for measuring coolant concentrations.*

Be sure to read and understand Precautions in your Owner's Manual. If the coolant has not been checked at the recommended interval, the engine coolant reservoir may become low or empty. If the reservoir is low or empty, add coolant to the reservoir. See Adding Engine Coolant in this chapter.

Note: *Automotive fluids are not interchangeable. Do not use engine coolant, antifreeze or windshield washer fluid outside of its specified function and vehicle location. For more information about engine coolant, see the Maintenance chapter of the Owner's Manual.*

Adding Engine Coolant

WARNING: Do not add engine coolant when the engine is on or the cooling system is hot. Failure to follow this instruction could result in personal injury.

WARNING: Do not put coolant in the windshield washer reservoir. If sprayed on the windshield, coolant could make it difficult to see through the windshield.

WARNING: To reduce the risk of personal injury, make sure the engine is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure. Steam and hot liquid can come out forcefully when you loosen the cap slightly.

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WARNING: Do not add coolant further than the ***MAX*** mark.

Note: *Do not use stop leak pellets, cooling system sealants, or additives as they can cause damage to the engine cooling or heating systems. This damage would not be covered under your vehicle's warranty.*

Note: *During normal vehicle operation, the engine coolant may change color from orange to pink or light red. As long as the engine coolant is clear and uncontaminated, this color change does not indicate the engine coolant has degraded nor does it require the engine coolant to be drained, the system to be flushed, or the engine coolant to be replaced.*

- DO NOT MIX different colors or types of coolant in your vehicle. Make sure the correct coolant is used. Mixing of engine coolants may harm your engine's cooling system. The use of an improper coolant may harm engine and cooling system components and may void the warranty.
- In case of emergency, a large amount of water without engine coolant may be added in order to reach a vehicle service location. In this instance, the cooling system must be drained, chemically cleaned with Motorcraft® Premium Cooling System Flush, and refilled with prediluted coolant as soon as possible. Water alone without engine coolant can cause engine damage from corrosion, overheating or freezing.

Note: *Do not use alcohol, methanol or brine or any engine coolants mixed with alcohol or methanol antifreeze coolant. Alcohol and other liquids can cause engine damage from overheating or freezing.*

Note: *Do not add extra inhibitors or additives to the coolant. These can be harmful and compromise the corrosion protection of the engine coolant.*

Unscrew the cap slowly. Any pressure could escape as you unscrew the cap.

Add prediluted engine coolant meeting our specification. See the Capacities and Specifications chapter of the Owner's Manual for more information. Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add enough prediluted coolant to bring the coolant level to the proper level.

Coolant Refill Procedure

The following procedure should be used when refilling the cooling system after it has been drained or become extremely low.

1. Remove the pressure relief cap from the coolant reservoir as previously outlined.
2. Slowly add prediluted coolant to the coolant reservoir until the coolant level is between the ***MIN*** and ***MAX*** marks on the reservoir.
3. Reinstall the pressure relief cap.
4. Start and idle the engine until the upper radiator hose is warm, which indicates the thermostat is open and coolant is flowing through the entire system.
5. Shut the engine off and let it cool.
6. Remove the pressure relief cap from the coolant reservoir as previously outlined.
7. Add prediluted coolant to the coolant reservoir until the coolant level is between the MIN and MAX marks on the reservoir.
8. Reinstall the pressure relief cap.

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9. Check the coolant level in the reservoir before you drive your vehicle the next few times with the engine cool.
10. If necessary, add prediluted coolant to the coolant reservoir until the coolant level is between the ***MIN*** and ***MAX*** marks on the reservoir.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add prediluted coolant to bring the coolant level to the proper level.

If you have to add more than 1 qt (1 L) of coolant per month, have your dealer check the cooling system. Your cooling system may have a leak. Operating an engine with a low level of coolant can result in engine overheating and possible engine damage.

CHANGING THE WIPER BLADES

To service the windshield wipers, we recommend the following for easier access to the wiper blades.

1. Switch the ignition to accessory mode.
2. Switch the wipers on and switch the ignition off when the wiper blades are in the middle of the windshield.
3. Service the wiper blades. See the Changing Wiper Blades section in the Mustang Owner's Manual for more information.
4. Switch the ignition to accessory mode and switch the wipers off.
5. Switch the ignition off.

CHANGING THE ENGINE AIR FILTER

WARNING: To reduce the risk of vehicle damage or personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

See the scheduled maintenance information for the appropriate intervals for changing the air filter element.

When changing the air filter element, use only the Motorcraft™ air filter element listed. See the Motorcraft part numbers in the Capacities and Specifications chapter.


E193856

1. Loosen the air filter clamp bolt enough to allow the air filter to slip off the air filter housing easily.
2. Slip the air filter off from the air filter housing.
3. Wipe the air filter housing clean to remove any dirt or debris.
4. Install the new air filter taking care not to damage the air filter element. Align the tab on the closed end of the filter with the notch in the air filter housing.
5. Tighten the air filter clamp bolt.

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WARNING: ***Track Apps™*** is for track use only. Remember that even advanced technology cannot defy the laws of physics. It is always possible to lose control of a vehicle due to inappropriate driver input for the conditions. Aggressive driving on any road condition can cause you to lose control of your vehicle increasing the risk of personal injury or property damage.

Note: *Your vehicle is equipped with electronic controls that, if required, reduces power and limits RPM in order to control powertrain temperatures.*

Note: *For track day use by a highly skilled driver, we recommend that you add aftermarket sealed oil separators (catch cans) to the PCV lines on both banks of the engine.*

Operating at High Speeds and on Track Days

Your vehicle is capable of sustained high speeds and track day driving.

Note: *Obey all traffic laws and only operate your vehicle at locations designed to do so safely.*

Before operating your vehicle at high speeds, follow these guidelines:

- Inspect wheels and tires for wear and damage. Replace any damaged wheels or tires.
- Verify your tires have the correct tire pressure. See **Tires** (page 43).
- Do not operate your vehicle at high speeds with more than two passengers or while carrying cargo.
- Your vehicle has electronic controls to reduce power and/or limit RPM to reduce powertrain temperatures if required.
- Perform the brake burnish procedure found later in this section.

Prior to track or other events at high speed:

- Change the engine oil with fresh Motorcraft/Ford SAE 5W-50 Full Synthetic Motor Oil and replace the engine oil filter prior to the event. Change the engine oil and filter again after every four hours of track time.
- Replace the brake fluid with fresh Motorcraft/Ford DOT 4 LV High Performance Brake Fluid or other DOT compliant fluid with a dry boiling point greater than 500ºF (260ºC) from a sealed container. Do not use silicone or DOT 5 brake fluids.

Regularly check the engine oil level during the event. If the oil level is between the lower and upper holes, the oil level is acceptable. DO NOT ADD OIL. If the oil level is below the lower hole, add enough oil to raise the level within the lower and upper holes. See **Engine Oil Check** (page 29).

Replace the rear axle fluid after 500 mi (800 km) of track use or when a message appears in the information display stating that the axle fluid is over temperature.

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Track Apps™

E292611

This feature provides a suite of menu options to record and optimize your track performances. See **General Information** (page 12).

Note: ***Track Apps™*** *are for track use only. Do not use them under any other driving conditions.*

Note: *You cannot view or clear your results unless your vehicle is at a complete stop with the right arrow on the display menu inactive. If your vehicle does not reach 100 mph (160 km/h) during the track run, your display may not show your selected interval's results.*

Note: *The pre-collision assist system turns off when using* ***Track Apps™*** *or when you switch off your stability control system.*

Acceleration Timer

E212292

Displays your vehicle's rate of acceleration for a given speed or distance range.

Accelerometer

E212428

Displays your vehicle's rate of acceleration or deceleration. A dot moves toward the area of acceleration or deceleration.

LEFT Acceleration or Deceleration

When accelerating or decelerating left, the dot moves to the right on the accelerometer.

RIGHT Acceleration or Deceleration

When accelerating or decelerating right, the dot moves to the left on the accelerometer.

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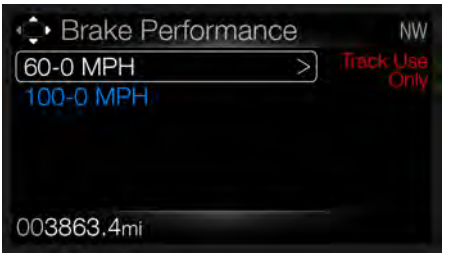
Brake Performance



E212296

Displays your vehicle's rate of deceleration for a given speed range.

Exhaust Mode

E212287

Gives the driver the ability to choose the vehicle's exhaust mode.

Lap Timer

E212294

Gives you the ability to record lap times at three separate tracks.

Launch Control

E212284

Maximizes your vehicle's traction from a standing start.

To use Launch Control, follow these steps:

1. Bring your vehicle to a complete stop.
2. Make sure Launch Control is enabled. The indicator illuminates in the instrument display when Launch Control is enabled.
3. Fully depress the clutch pedal.
4. Shift the transmission into 1st gear.
5. Fully depress the accelerator pedal and allow the engine RPM to stabilize.
6. Release the clutch pedal.

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Line Lock

E212282

Line lock is a feature intended for use at tracks only and should not be used on public roadways. Use of this feature may result in significantly increased rear tire wear. It is intended to condition the rear tires to maximize traction prior to track use. Line lock maintains brake force at the front wheels, allowing the rear wheels to spin with minimal vehicle movement.

This feature is located in the ***Track Apps™*** menu. Make selections through the 5-way information display control and **OK** button on the steering wheel.

Using Line Lock

There are three line lock stages:

- Initiated.
- Engaged.
- Off.

Initiating Line Lock

The initiation stage verifies that the vehicle is ready for line lock function, and confirms driver intent. Follow the prompts in the information display to initiate line lock.

The following conditions must be met to initialize line lock:

- The vehicle is on a level surface.
- The engine is running.
- The vehicle is traveling less than 25 mph (40 km/h).
- Selectable drive mode is not in wet mode (if equipped).
- There are no electronic stability control faults.

If you want to cancel line lock once it is initialized, press the left information display control. Once initiated, line lock is prepared for activation and remains initiated up to 25 mph (40 km/h). If vehicle speed exceeds 25 mph (40 km/h), line lock automatically cancels.

Engaging Line Lock

Follow the prompts in the information display to engage line lock after it is initialized. To engage, firmly apply the brakes. Then press the OK button. Once engaged, release the brake pedal. The front brakes remain applied and the rear brakes release. At this point, the engagement timer is initiated and shown on the driver information display.

The following conditions must be met to engage line lock:

- The vehicle is on a level surface.
- The engine is running.
- The vehicle is stopped.
- The parking brake is not applied.
- The driver door is closed.
- The transmission is in a forward gear.
- Selectable drive mode is not in slippery mode.
- There are no electronic stability control faults.
- The steering wheel must be in the straight ahead position.

Releasing Line Lock

While line lock is engaged, you can exit (release) the feature using the OK button. When you press the OK button, line lock releases immediately and normal vehicle function resumes. When line lock engages, a countdown timer shows the remaining time before line lock is released automatically. If you exceed the time limit, or another vehicle condition requires line lock to release, the system safely disengages and normal vehicle function resumes.

Note: *If you apply the brake pedal while line lock is engaged, line lock automatically cancels and normal brake function resumes.*

Performance Shift Indicator

E212289

The performance shift indicator consists of a light bar on the dash that reflects an image onto the windshield displaying a row of LEDs representing engine RPM.

The performance shift indicator menu allows you to:

- Set shift point within allowable RPM range in increments of 100.
- Enable or disable associated shift tone, based on the set shift point.
- Set mode between Off, Change with Drive Mode, Tach, Track and Drag.
- Set the light intensity. The intensity automatically adjusts between day time and night time.

Status Screen

E212280

The status screen provides a snapshot of the current status of the Drive Mode, AdvanceTrac, Exhaust Mode, Steering Effort, Launch Control and Damper features.

View/Clear Results

E212298

Allows you to view and clear the last and saved results of the ***Acceleration Timer***, ***Brake Performance***, and ***All Time Best*** results.

Road Course Alignment Recommendations

Note: *After your track day is complete, return your car to the street alignment and tire pressures.*

If you plan to participate in road course track days with your GT350 or GT350R, we recommend the following chassis settings for optimal tire wear and handling performance.

All settings are at curb loading condition.

Requires adjustable camber front strut top mounts.

GT350

Front	Track	Street
Camber	-2.00°	-1.10°
Caster	6.83°	6.83°
Toe - Total	-0.10° (toe out)	-0.10° (toe out)

Rear	Track	Street
Camber	-2.20°	-1.20°
Toe - Total	0.30° toe in	0.30° toe in

GT350R

Front	Track	Street
Camber	-2.20°	-1.16°
Caster	7.88°	7.88°
Toe - Total	-0.10° (toe out)	-0.10° (toe out)

Rear	Track	Street
Camber	-1.60°	-1.20°
Toe - Total	0.30° toe in	0.30° toe in

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Track Tire Pressures

Cold Tire Pressures

Tire pressure	Front	Rear
GT350	28 psi (1.93 bar)	28 psi (1.93 bar)
GT350R		

Hot Tire Pressures

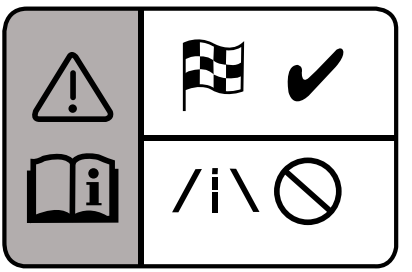
Tire pressure	Front	Rear
GT350	38 psi (2.62 bar)	36 psi (2.48 bar)
GT350R		

Adjustable Camber Front Strut Top Mounts (If Equipped)

Your vehicle has adjustable strut mounts which you can use to adjust the camber of your vehicle before and after a track event to the specifications listed in the Road Course Alignment Recommendations table previously shown.

Note: *After your track day is complete, return your car to the street alignment and tire pressures.*

Aerodynamics (If Equipped)



The rear Gurney flap must be removed for on-road driving.

Your vehicle may include a removable Gurney flap in the luggage compartment. The Gurney flap greatly enhances high speed stability and performance on the track. It is recommended that you use the Gurney flap at all tracks featuring high speed corners and can be used at any track regardless of cornering speeds.

Smaller tracks with maximum cornering speeds below 70 mph (112 km/h) may benefit from the removal of the Gurney flap to improve low speed balance. It is recommended that the user attaches the Gurney flap for all track events and carefully assess both the vehicle's condition and the users capability before removal.

Note: *The Gurney flap comes with longer size bolts to install it onto the rear spoiler.* ***Do not use the longer size bolts without the Gurney flap attached or damage to the spoiler may occur.***

Brake Burnishing

Your brakes should be properly burnished prior to heavy track use. Excessive brake noise may occur after the track burnish or track use. Perform this procedure in a safe manner on dry pavement, and in compliance with all local and state ordinances and laws regarding motor vehicle operation.

To burnish your brakes for track use:

- Initial low temperature bedding:
  - If your brakes already have 200 miles or more of city driving, skip this step and go directly to the high temperature bedding cycle procedure. Otherwise, perform at least 30 stops from approximately 50 mph (80 km/h) at 1/3 g deceleration with 0.75 mi (1.2 km) spacing between stops. A deceleration gauge can be accessed through the TrackApps menu in your instrument display.
- High temperature bedding cycle:
  - Beginning with cool brakes, perform 15 consecutive stops back to back, accelerating at 3/4 throttle to 80 mph (128 km/h) and braking to 20 mph (32 km/h) at 1.0 g deceleration. The brakes may omit an odor or smoke during this part of the procedure.
- Cool down:
  - Cool the brakes down by driving 1-2 laps [5 mi / 8 km] at 60 mph (96 km/h) with minimal to no brake usage.
- Recovery low temperature bedding (if time allows):
  - Perform at least 30 stops from approximately 50 mph (80 km/h) at 1/3 g deceleration with 0.75 mi (1.2 km) spacing between stops.

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CLEANING THE EXTERIOR

Washing Your Vehicle

Do not drive your vehicle through an automated, commercial car wash due to the vehicle's low ground clearance and tire width. Wash your vehicle by hand, or by using a touchless commercial wash with no mechanical tracks on the floor. Do not use a power washer or high pressure wand.

To maintain proper cooling and aerodynamics at high speeds, your vehicle has heat exchangers integrated with the front fascia designed to maximize performance. Do not use a power washer or high powered spray nozzle as damage to the cooling fins could occur.

Note: *For heavy accumulation of debris or dirt, clean with a non-metallic soft bristle car wash brush and warm soapy water as needed.*

Stripes (If Equipped)

Hand washing your vehicle is preferred however, pressure washing may be used under the following conditions:

- Do not use water pressure higher than 2,000 psi (14,000 kPa).
- Do not use water hotter than 179ºF (82ºC).
- Use a spray with a 40º wide spray angle pattern.
- Keep the nozzle at a 12 in (305 mm) distance and 90º angle to your vehicle's surface.

Note: *Holding the pressure washer nozzle at an angle to the vehicle's surface may damage the stripes and cause the edges to peel away from the vehicle's surface.*

CLEANING THE ENGINE

Note: *Do not allow water or cleaning solutions to contact the exposed air filter element. Cover the air filter assembly and avoid spraying water at it.*

CLEANING THE WINDOWS AND WIPER BLADES

Note: *Pulling the wiper blade and arm away from the windshield when it is in the park position could cause damage to the hood.*

To clean the windshield and wiper blades:

1. Switch the ignition on.
2. Switch the wipers on. When the wiper blades reach the middle of the windshield, switch the ignition off.
3. Pull the wiper blade and arm away from the glass.
4. Clean the wiper blades and windshield with washer fluid or water applied with a soft sponge or cloth.
5. Lower the wiper blade and arm back to its normal position.

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WHEELS

Your vehicle has unique wheels matched to the tires. These wheels are more susceptible to damage due to their diameter, width and low profile tires.

To avoid damage to your wheels:

- Maintain proper tire pressure (see Tires in this supplement).
- When installing wheels, always torque lug nuts to specification with a torque wrench.
- Inspect your wheels for damage on a regular basis. If a wheel is damaged, replace it immediately.
- In the event that you encounter an abnormally harsh impact, inspect the outer diameter of your wheels, both inside and out, for damage.

Use Motorcraft™ Wheel and Tire Cleaner to maintain your wheels. See your Owner's Manual for information on other cleaning products and vehicle care.

Wheel Lug Nut Torque Specifications

WARNING: When you install a wheel, always remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Make sure to secure any fasteners that attach the rotor to the hub so they do not interfere with the mounting surfaces of the wheel. Installing wheels without correct metal-to-metal contact at the wheel mounting surfaces can cause the wheel nuts to loosen and the wheel to come off while your vehicle is in motion, resulting in loss of vehicle control, personal injury or death.

Retighten the lug nuts to the specified torque at 500 mi (800 km) after any wheel disturbance (tire rotation, changing a flat tire or wheel removal).

Lug nut size	lb-ft (Nm)*
M14 x 1.5	150 ± 15 (200 ± 20)

*Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners.

Carbon Fiber Wheels

The GT350R comes standard with carbon fiber wheels. These wheels offer significant weight savings, while maintaining the structural integrity of aluminum or steel wheels. These wheels have been specifically designed for the R package, and are not recommended for use on other vehicles or Mustang variants. Due care should be taken when mounting and balancing new tires to avoid damage. Ford Performance recommends only using your Ford authorized dealer for service.

The front carbon fiber wheels have a thermal barrier coating on the back of the spokes and on the inner rim barrel. The coating works best when clean. Maintain these areas with Motorcraft Tire and Wheel Cleaner and warm soapy water.

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TIRES

WARNING: Only use replacement tires and wheels that are the same size, load index, speed rating and type (such as P-metric versus LT-metric or all-season versus all-terrain) as those originally provided by Ford. The recommended tire and wheel size may be found on either the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or the Tire Label which is located on the B-Pillar or edge of the driver's door. If this information is not found on these labels, then you should contact your authorized dealer as soon as possible. Use of any tire or wheel not recommended by Ford can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

Note: *Do not use tire chains on your vehicle. The use of any type of tire chain on these tires may damage your vehicle.*

Note: *For information on tire sizes,* *See* ***Changing a Road Wheel*** *(page 44).*

Your vehicle is equipped with low profile, high performance tires that are designed to optimize the driving dynamics you expect in a Ford Performance vehicle. These tires are not optimized for off-road or winter (snow or cold weather) performance, and their ride, noise and wear characteristics are different than non-performance tires. Also, because of their lower profile, the tires are more susceptible to damage due to potholes and rough roads.

To make sure that your tires perform as intended, it is important that you maintain your tires properly:

- Your original equipment tires are optimized for performance in both wet and dry conditions. We do not recommend using the original equipment tires when temperatures drop to about 45ºF (7ºC) or below (depending on tire wear and environmental conditions) or in snow and ice conditions.
- The tires were designed for track use and may exhibit significantly reduced tread life and increased tire noise compared to the standard equipment tires under normal driving conditions. Increasing the front camber settings beyond the factory settings may further accelerate tread wear and induce tire noise.
- For tire pressures, see the placard located on the B-pillar inside the driver door.
- Always maintain your tire pressures according to the tire information placard on the driver door jamb, using an accurate gauge.
- Tire pressures are specified cold and should be checked after the vehicle has been parked for at least three hours. Do not reduce pressure of warm tires.
- Check your tire pressure often to maintain it properly. Tire pressure can diminish over time and fluctuate with temperature.
- Do not overload your vehicle. Maximum vehicle and axle weights are listed on the tire information placard.
- Extra caution should be taken when operating the vehicle near its maximum load, including assuring proper tire pressure and reducing speeds.

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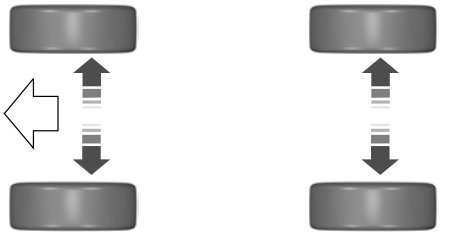
- Extra caution should be taken when operating on rough roads to avoid impacts that could cause tire damage.
- In the event that you encounter an abnormally harsh impact, inspect your tires for damage.
- Inspect your tires for damage on a regular basis. If a tire is damaged, replace it immediately.
- Proper suspension alignment is critical for maximum performance and optimal tire wear. If you notice uneven tire wear, have your alignment checked.
- When replacing tires, the only way to maintain original performance is to use the original equipment tire. If a different tire is used, it should be the same size, speed rating and load rating and be replaced as a set of four. Never mix tire brands.
- Rotate tires as recommended in the tire rotation information. The tires on your vehicle are staggered and should be rotated from side to side only, not from front to back. See your owner's manual for more information.



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USING WINTER TIRES

The original equipment tires on your vehicle are designed to optimize its performance in dry or wet summer road conditions. They are not optimized for off-road or winter performance and you must not use them with snow chains. The use of any type of snow chains with the original equipment wheels and tires of your vehicle may cause damage not covered by the vehicle warranty. We do not recommend using the original equipment tires when temperatures drop below 44.6ºF (7ºC) or in snow and ice conditions.

Note: *We recommend that you use winter or all-season tires when temperatures drop below 44.6ºF (7ºC) or in snow and ice conditions.*

- Use winter tires with the same load index as the summer tires originally equipped with your vehicle.
- If you fit winter tires with a speed rating less than the original equipment tires, do not exceed the maximum speed rating for the tire.Do not operate your vehicle above posted speed limits while using winter tires. Never perform high speed driving with winter tires.

Please call the Ford Performance Info Center at 1-800-367-3788 for specific winter tire recommendations.

CHANGING A ROAD WHEEL

Your vehicle has two tire sizes. Install the correct size when changing a road wheel. See your owner's manual for instruction on changing a road wheel.

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Wheel and Tire Sizes

Tires	Wheels
GT350 295/35R19 front, 305/35R19 rear	19 in. x 10.5 in. front, 19 in. x 11 in. rear
GT350R 305/30R19 front, 315/30R19 rear	19 in. x 11 in. front, 19 in. x 11.5 in. rear

ENGINE SPECIFICATIONS

Item	Description
Configuration.	90 degree V8
Bore x stroke.	94mm bore x 93mm stroke (3.70 in. x 3.66 in.)
Displacement.	5163 cubic centimeters (315 cubic inches)
Compression ratio.	12:1
Spark plug gap.	0.035–0.039 in (0.9–1 mm)
Horsepower.	526
Torque.	429 ft-lbs
Redline.	8250 RPM[1]
Valvetrain.	Overhead cams - roller finger followers
Ignition.	Coil on plug
Throttle body.	87 mm (3.4 in.)
Pistons.	Forged aluminum
Crankshaft.	Forged steel flat plane
Connecting rods.	Forged steel I-beam
Induction.	Naturally aspirated cold air induction
Exhaust system.	High flow dual exhaust with X-pipe and dual mode mufflers.

[1] Redline limited to 8000 RPM until the engine oil temperature exceeds 190°F (88°C).

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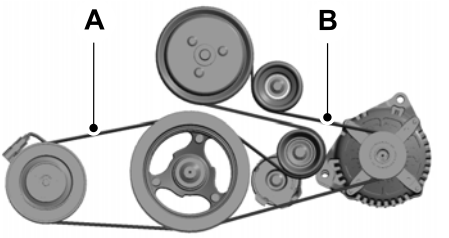
Drivebelt Routing



A. A/C drive belt - shorter drive belt on inner sheave closest to the engine. 6 ribbed belt.
B. Alternator drive belt - longer drive belt on outer sheave farthest from the engine. 6 ribbed belt.

BRAKE SYSTEM SPECIFICATIONS

Front

Description	Specification
Rotor diameter.	15.5 in (394 mm)
Rotor width.	1.4 in (36 mm)
Rotor swept area.	121.7 in² (785.5 cm²)
Caliper piston sizes.	1.3 in (34 mm)
	1.4 in (36 mm)
	1.5 in (38 mm)

Rear

Description	Specification
Rotor diameter.	15.0 in (380 mm)
Rotor width.	1.0 in (26 mm)
Rotor swept area.	79.7 in² (514 cm²)
Caliper piston sizes.	1.2 in (30 mm)
	1.3 in (32 mm)

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SUSPENSION SPECIFICATIONS

Item	Description
Front suspension.	MacPherson strut, double ball-joint
Rear suspension.	Multi-link
Front spring rate.	GT350 37 N/mm (211 lb/in)
	GT350R 42 N/mm (240 lb/in)
Rear spring rate.	GT350 150 N/mm (857 lb/in)
	GT350R 160 N/mm (914 lb/in)
Front stabilizer bar.	GT350 34mm DIA x 5.7mm wall (1.34 x 0.22 in)
	GT350R 34mm DIA x 4.8mm bonded wall (1.34 x 0.19 in)
Rear stabilizer bar.	GT350 24mm DIA x 3.6mm wall (0.94 x 0.14 in)
	GT350R 24mm DIA x 3.6mm wall (0.94 x 0.14 in)

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MOTORCRAFT PARTS

Component	5.2L engine
Air filter.	FA-1922
Oil filter.	FL-2087
Battery.	BXT-99RT4-A
Fuel filter.	FG-1152
Spark plugs.	SP-581
Cabin air filter.	FP-78
Windshield wiper blade.	WW-2160 (driver side) WW-1964 (passenger side)

Note: *The use of any oil filter other than the dealer supplied oil filter may cause engine damage. Use the listed Motorcraft oil filter for maximum performance, reliability and durability.*

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CAPACITIES AND SPECIFICATIONS

Use oil and fluid that meets the defined specification and viscosity grade.

If you do not use oil and fluid that meets the defined specification and viscosity grade, it could result in:

- Component damage not covered by the vehicle warranty.
- Longer engine cranking periods.
- Increased emission levels.
- Reduced engine performance.
- Reduced fuel economy.
- Reduced brake performance.

Air Conditioning System

WARNING: The air conditioning refrigerant system contains refrigerant under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Capacities

Variant	Refrigerant	Refrigerant Oil
All.	23.99 oz (0.68 kg)	4.06 fl oz (120 ml)

Materials

Name	Specification
Motorcraft® R-134a Refrigerant (U.S.) R-134a Refrigerant / Frigorigène R-134a (Canada) YN-19 (U.S.) CYN-19-R (Canada)	WSH-M17B19-A
Motorcraft® PAG Refrigerant Compressor Oil (U.S.) Motorcraft® PAG Refrigerant Compressor Oil / Huile PAG pour compresseur frigorifique Motorcraft® (Canada) YN-12-D (U.S. & Canada)	WSH-M1C231-B

Transmission

Capacities

Variant	Quantity
All.	2.5 qt (2.4 L)

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Materials

Name	Specification
Motorcraft® MERCON® LV Automatic Transmission Fluid (U.S.) Motorcraft® MERCON® LV Automatic Transmission Fluid / Huile pour boîte automatique MERCON® LV Motorcraft® (Canada) XT-10-QLVC (U.S.) CXT-10-LV6 (Canada)	MERCON® LV WSS-M2C938-A

Engine Coolant

Capacities

Variant	Quantity
All.	15.2 qt (14.4 L)

Materials

Name	Specification
Motorcraft® Orange Prediluted Antifreeze/Coolant (U.S.) Motorcraft® Orange Prediluted Antifreeze/Coolant / Antigel/liquide de refroidissement prédilué orange Motorcraft® (Canada) VC-3DIL-B (U.S.) CVC-3DIL-B (Canada)	WSS-M97B44-D2

Engine Oil

Your engine has been designed to use engine oil that meets our specification or an equivalent engine oil of the recommended viscosity grade that meets API SN requirements for gasoline engines.

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that your vehicle warranty does not cover.

Capacities

Variant	Quantity
All.	10.0 qt (9.5 L)

Materials

Name	Specification
Motorcraft® SAE 5W-50 Full Synthetic Motor Oil (U.S.) Motorcraft® SAE 5W-50 Full Synthetic Motor Oil / Huile moteur synthétique SAE 5W-50 Motorcraft® (Canada) XO-5W50-QGT (U.S. & Canada)	WSS-M2C931-C

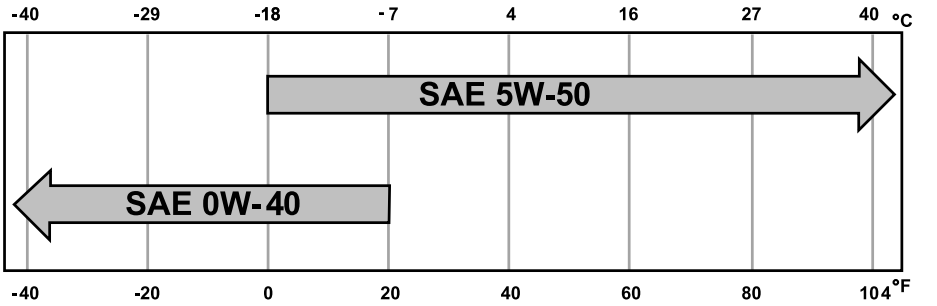
Note: *Oil must meet specification WSS-M2C931-C or use SAE 5W-50 oil that meet API SN requirements.*

Alternative Engine Oil for Extremely Cold Climates

To improve engine cold start performance, we recommend that you use the following alternative engine oil in extremely cold climates, where the ambient temperature reaches 20ºF (–7ºC) or below.

Materials

Name	Specification
Engine Oil - SAE 0W-40	WSS-M2C937-A



Fuel Tank

Capacities

Variant	Quantity
All.	16.0 gal (60.55 L)

Hydraulic Brake System

Use only Motorcraft DOT 4 LV High Performance Brake Fluid or equivalent meeting WSS-M6C65-A2 and ISO 4925 Class 6. Use of any fluid other than the recommended fluid could cause brake system damage. Prior to track use, replace brake fluid with fresh Motorcraft DOT 4 LV High Performance Brake Fluid or other DOT compliant fluid with a dry boiling point greater than 500ºF (260ºC) from a sealed container. Do not use silicone or DOT 5 brake fluids.

Materials

Name	Specification
Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid (U.S.) Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid / Liquide de frein automobile haute performance DOT 4 LV Motorcraft® (Canada) PM-20 (U.S. & Canada)	WSS-M6C65-A2

Rear Axle

Capacities

Variant	Quantity
All.	2.0 qt (1.9 L) [1]

[1] For complete refill of our limited slip axles, add 4.22 fl oz (125 ml) of Additive Friction Modifier XL-3 or equivalent meeting specification EST-M2C118-A. Include this friction modifier in the total fluid capacity. Our rear axles contain a synthetic lubricant that does not require changing unless you submerge the axle in water.

Materials

Name	Specification
Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant (U.S.) Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / Huile synthétique de haute qualité pour engrenages hypoïdes SAE 75W-85 Motorcraft® (Canada) XY-75W85-QL (U.S. & Canada)	WSS-M2C942-A
Motorcraft® Additive Friction Modifier (U.S.) Motorcraft® Additive Friction Modifier / Additif modificateur de friction Motorcraft® (Canada) XL-3 (U.S.) CXL-3 (Canada)	EST-M2C118-A

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BASE WARRANTY

The GT500 carries the same warranty as other Ford Mustang models. This information is covered in its entirety in the warranty information.

Warranty service for the GT500 or any Ford Performance vehicle can be obtained at any Ford dealer nationwide.

We do not recommend modifying or racing (for competition or time) Ford Performance vehicles, as they are designed and built to be driven as delivered from the factory. The warranty information discusses vehicle usage and the installation of aftermarket parts and their effect on warranty coverage.

Additionally, perform multi-point inspection and the maintenance outlined in the 150000 mile (240000 kilometer) normal maintenance schedule of the scheduled maintenance before and after track use. See the vehicle service manual for removal and installation procedures. Replace with Genuine Ford and Motorcraft® service parts as needed.

Subjecting your vehicle to competition conditions may render repairs non-reimbursable under the warranty.

What is Not Covered Under the New Vehicle Limited Warranty?

Damage caused by:

- Abuse, competition, racing, track use or other events.
- Accidents, collision or objects striking the vehicle (including driving through a car wash).
- Theft, vandalism or riot.
- Fire or explosion.
- Using contaminated or improper fuel/fluids.
- Customer-applied chemicals or accidental spills.
- Driving through water deep enough to cause water to be ingested into any component, for example powertrain components.
- Misuse of the vehicle, such as driving over curbs, overloading or using the vehicle as a permanent stationary power source.

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GENERAL MAINTENANCE INFORMATION

Why Maintain Your Vehicle?

Carefully following the maintenance schedule helps protect against major repair expenses resulting from neglect or inadequate maintenance and may help to increase the value of your vehicle when you sell or trade it. Keep all receipts for completed maintenance with your vehicle.

We have established regular maintenance intervals for your vehicle based upon rigorous testing. It is important that you have your vehicle serviced at the proper times. These intervals serve two purposes; one is to maintain the reliability of your vehicle and the second is to keep your cost of owning your vehicle down.

It is your responsibility to have all scheduled maintenance performed and to make sure that the materials used meet the specifications identified in this owner's manual. See **Capacities and Specifications** (page 46).

Failure to perform scheduled maintenance invalidates warranty coverage on parts affected by the lack of maintenance.

Why Maintain Your Vehicle at Your Dealership?

Factory-Trained Technicians

Service technicians participate in extensive factory-sponsored certification training to help them become experts on the operation of your vehicle. Ask your dealership about the training and certification their technicians have received.

Genuine Ford and Motorcraft® Replacement Parts

Dealerships stock Ford, Motorcraft and Ford-authorized branded re-manufactured replacement parts. These parts meet or exceed our specifications. Parts installed at your dealership carry a nationwide 24-month or unlimited mile (kilometer) parts and labor limited warranty.

If you do not use Ford authorized parts they may not meet our specifications and depending on the part, it could affect emissions compliance.

Convenience

Many dealerships have extended evening and Saturday hours to make your service visit more convenient and they offer one stop shopping. They can perform any services that are required on your vehicle, from general maintenance to collision repairs.

Note: *Not all dealers have extended hours or body shops. Please contact your dealer for details.*

Protecting Your Investment

Maintenance is an investment that pays dividends in the form of improved reliability, durability and resale value. To maintain the proper performance of your vehicle and its emission control systems, make sure you have scheduled maintenance performed at the designated intervals.

Your vehicle is equipped with an intelligent oil-life monitor that determines oil life based on engine operating conditions.

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- Under normal operating conditions, a message appears in the information display to indicate the regular oil change interval.
- Under severe operating conditions, the oil change intervals reduce, and the message interval adjusts accordingly.

You can drive high performance vehicles in such a way that may lead to higher oil consumption (this includes extended time at high engine speeds, high loads, engine braking, hard cornering maneuvers, and track use). Under these conditions, oil consumption of approximately 1 quart per 500 miles (1 liter per 800 km) is possible. As a result, you need to check the engine oil level at every refueling and adjust to maintain proper levels to avoid engine damage.

Note: *Oil level should not exceed the maximum mark on the indicator. See* ***Engine Oil Check*** *(page 29).*

When the oil change message appears in the information display, it is time for an oil change. Make sure you perform the oil change within two weeks or 500 mi (800 km) of the message appearing. Make sure you reset the Intelligent Oil-Life Monitor after each oil change.

If your information display resets prematurely or becomes inoperative, you should perform the oil change interval. See **Normal Scheduled Maintenance** (page 59).

Your vehicle is very sophisticated and built with multiple, complex, performance systems. Every manufacturer develops these systems using different specifications and performance features. That is why it is important to rely upon your dealership to properly diagnose and repair your vehicle.

Ford Motor Company has recommended maintenance intervals for various parts and component systems based upon engineering testing. Ford Motor Company relies upon this testing to determine the most appropriate mileage for replacement of oils and fluids to protect your vehicle at the lowest overall cost to you and recommends against maintenance schedules that deviate from the scheduled maintenance information.

We strongly recommend the use of only genuine Ford, Motorcraft or Ford-authorized re-manufactured replacement parts engineered for your vehicle.

Additives and Chemicals

This owner's manual and the Ford Workshop Manual list the recommended additives and chemicals for your vehicle. We do not recommend using chemicals or additives not approved by us as part of your vehicle's normal maintenance. Please consult your warranty information.

Oils, Fluids and Flushing

In many cases, fluid discoloration is a normal operating characteristic and, by itself, does not necessarily indicate a concern or that the fluid needs to be changed. However, a qualified expert, such as the factory-trained technicians at your dealership, should inspect discolored fluids that also show signs of overheating or foreign material contamination immediately.

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Make sure to change your vehicle's oils and fluids at the specified intervals or in conjunction with a repair. Flushing is a viable way to change fluid for many vehicle sub-systems during scheduled maintenance. It is critical that systems are flushed only with new fluid that is the same as that required to fill and operate the system or using a Ford-approved flushing chemical.

Owner Checks and Services

Make sure you perform the following basic maintenance checks and inspections every month or at six-month intervals.

Check Every Month
Engine oil level (normal vehicle use).
For severe use, (high engine speed and engine loads, engine braking and track use) check engine oil level every fuel fill-up.
Function of all interior and exterior lights.
Tires; for wear and proper pressure.
Windshield washer fluid level.

Check Every Six Months
Battery connections. Clean if necessary.
Body and door drain holes for obstructions. Clean if necessary.
Cooling system fluid level and coolant strength.
Door weatherstrips for wear. Lubricate if necessary.
Hinges, latches and outside locks for proper operation. Lubricate if necessary.
Parking brake for proper operation.
Safety belts and seat latches for wear and function.
Safety warning lamps (brake, ABS, airbag and safety belt) for operation.
Washer spray and wiper operation. Clean or replace blades as necessary.

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Multi-Point Inspection

In order to keep your vehicle running right, it is important to have the systems on your vehicle checked regularly. This can help identify potential issues and prevent major problems. We recommend having the following multi-point inspection performed at every scheduled maintenance interval to help make sure your vehicle keeps running great.

Multi-Point Inspection	
Accessory drive belt(s)	Hazard warning system operation
Battery performance	Horn operation
Engine air filter	Radiator, cooler, heater and air conditioning hoses
Exhaust system	Suspension components for leaks or damage
Exterior lamps operation	Steering and linkage
Fluid levels[1]; fill if necessary	Tires; for wear and proper pressure[2]
For oil and fluid leaks	Windshield for cracks, chips or pits
Half-shaft dust boots	Washer spray and wiper operation

[1] Brake, coolant recovery reservoir and window washer

[2] If your vehicle is equipped with a temporary mobility kit, check the tire sealant expiration Use By date on the canister. Replace as needed.

Be sure to ask your dealership service advisor or technician about the multi-point vehicle inspection. It is a comprehensive way to perform a thorough inspection of your vehicle. Your checklist gives you immediate feedback on the overall condition of your vehicle.

NORMAL SCHEDULED MAINTENANCE

Intelligent Oil-Life Monitor®

Your vehicle has an Intelligent Oil-Life Monitor that determines when you should change the engine oil based on how you use your vehicle. By using several important factors in its calculations, the monitor helps reduce the cost of owning your vehicle and reduces environmental waste at the same time.

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This means you do not have to remember to change the oil on a mileage-based schedule. Your vehicle lets you know when an oil change is due by displaying a message in the information display.

The following table provides examples of vehicle use and its impact on oil change intervals. It is a guideline only. Actual oil change intervals depend on several factors and generally decrease with severity of use.

When to expect the OIL CHANGE REQUIRED Message	
Interval	**Vehicle Use and Example**
5,000–7,500 mi (8,000–12,000 km)	**Normal**
	Normal commuting with highway driving Normal to moderate load Flat to moderately hilly roads No extended idling
3,000–5,000 mi (4,800–8,000 km)	**Severe or Extreme**
	Moderate to heavy load Mountainous conditions Extended idling Extended hot or cold operation Maximum load or track use Extreme hot or cold operation High engine speed

Normal Maintenance Intervals

Note: *You must use the proper replacement parts or you may void your vehicles warranty.*

At Every Oil Change Interval as Indicated by the Information Display[1]
Change engine oil and filter.[2]
Rotate tires, inspect tire wear and measure tread depth.
Perform a multi-point inspection, recommended.
Inspect the brake pads, shoes, rotors, brake linings, hoses and parking brake.
Inspect the engine cooling system strength and hoses.
Inspect the exhaust system and heat shields.
Inspect rear axle and U-joints. Lubricate, if it has grease fittings.
Inspect the half-shaft boots.

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At Every Oil Change Interval as Indicated by the Information Display[1]
Inspect the steering linkage, ball joints, suspension, tie-rod ends, driveshaft and U-joints. Lubricate any areas with grease fittings.
Inspect the wheels and related components for abnormal noise, wear, looseness or drag.

[1] Do not exceed one year or 10,000 mi (16,000 km) between service intervals.
[2] Reset the Intelligent Oil-Life Monitor after engine oil and filter changes.

Other Maintenance Items[1]	
Every 20,000 mi (32,000 km)	Replace the cabin air filter.
Every 30,000 mi (48,000 km)	Replace the engine air filter.
Every 60,000 mi (96,000 km)	Replace the fuel filter.
At 100,000 mi (160,000 km)	Change the engine coolant if your vehicle has orange-colored coolant.[2]
Every 100,000 mi (160,000 km)	Replace the spark plugs.
	Inspect the accessory drive belt(s).[3]
Every 150,000 mi (240,000 km)	Change the manual transmission fluid.
	Change the differential fluid.
	Replace the accessory drive belt(s).
At 200,000 mi (322,000 km)	Change the engine coolant if your vehicle has yellow-colored coolant.[4]

[1] Perform these maintenance items within 3,000 mi (4,800 km) of the last engine oil and filter change. Do not exceed the designated distance for the interval.
[2] Initial replacement at six years or 100,000 mi (160,000 km), then every three years or 50,000 mi (80,000 km).
[3] After initial inspection, inspect every other oil change until replaced.
[4] Initial replacement at 10 years or 200,000 mi (322,000 km), then every five years or 100,000 mi (160,000 km).

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Track Use Maintenance Intervals

Follow these maintenance intervals for when you use your vehicle on a track or in a high speed event.

Interval	Vehicle Use and Example
One track weekend or approximately 4 hours of track use	Change the engine oil and filter
Every 500 mi (800 km)	Change the rear axle fluid[1]

[1] Change the fluid every 500 mi (800 km) or when a message appears in the information display stating that the axle fluid is over temperature.

SPECIAL OPERATING CONDITIONS SCHEDULED MAINTENANCE

If you operate your vehicle **primarily** in any of the following conditions, you need to perform extra maintenance, as indicated. If you operate your vehicle **occasionally** under any of these conditions, it is not necessary to perform the extra maintenance. For specific recommendations, see your dealership service advisor or technician.

Perform the services shown in the following tables when specified or within 3,000 mi (4,800 km) of a message appearing in the information display prompting you to change your oil.

- **Example 1**: The message comes on at 28,751 mi (46,270 km). Perform the 30,000 mi (48,000 km) automatic transmission fluid replacement.
- **Example 2**: The message has **not** come on, but the odometer reads 30,000 mi (48,000 km) (for example, the Intelligent Oil-Life Monitor was reset at 25,000 mi (40,000 km)). Perform the engine air filter replacement.

Extensive idling or low-speed driving for long distances	
As required	Change engine oil and filter as indicated by the information display and perform services listed in the Normal Scheduled Maintenance chart.
Inspect frequently, service as required	Replace cabin air filter.
Every 15,000 mi (24,000 km)	Inspect engine air filter. Replace as required.
Every 60,000 mi (96,000 km)	Replace spark plugs.

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Operating in dusty or sandy conditions (such as unpaved or dusty roads)	
Inspect frequently, service as required	Replace cabin air filter.
Every 15,000 mi (24,000 km)	Inspect engine air filter. Replace as required.
Every 5,000 mi (8,000 km)	Inspect the wheels and related components for abnormal noise, wear, looseness or drag.
	Rotate tires, inspect tires for wear and measure tread depth.
Every 5,000 mi (8,000 km) or six months	Change engine oil and filter.*
Every 50,000 mi (80,000 km)	Change manual transmission fluid.

*Reset your Intelligent Oil-Life Monitor after each engine oil and filter change.

Operating at High Speeds and Track Days

Your vehicle is capable of sustained high speeds and track day driving.

Before operating your vehicle at high speeds:

- Verify your tires have the correct pressures.
- Inspect wheels and tires for wear and damage. Replace any damaged wheels and tires.
- Check and set lug nut torque. See **Wheels** (page 42).
- Verify fluid levels for oil, coolant, brake, and hydraulic fluid. See **Capacities and Specifications** (page 50).
- Change the oil and filter prior to use on the track.

After operating your vehicle at high speeds or track day driving, do the following:

- Set tire pressures to the proper specification.
- Check and set the lug nut torque. See **Wheels** (page 42).
- Check all fluid levels.
- Refer to the Track Maintenance Interval Chart. See **Normal Scheduled Maintenance** (page 59).

Exceptions

There are several exceptions to the Normal Schedule:

Axle Maintenance

Change the axle fluid anytime an axle is submerged in water.

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If you receive an axle overtemp warning message in the information display and a wrench warning indicator appears, you should change the rear axle fluid at the next convenient time. The wrench warning indicator turns off when you switch off your vehicle.

Timing Chain

If you use your vehicle extensively at a race track or at high rpm, it is possible to exceed the service life of the engine timing chain. A wrench indicator light will illuminate when it is time for you to replace your chain. See an authorized dealer.

California Fuel Filter Replacement

If you register your vehicle in California, the California Air Resources Board has determined that the failure to perform this maintenance item does not nullify the emission warranty or limit recall liability before the completion of your vehicle's useful life. Ford Motor Company, however, urges you to have all recommended maintenance services performed at the specified intervals and to record all vehicle service.

Hot Climate Oil Change Intervals

Vehicles operating in the Middle East or locations with similar climates using an American Petroleum Institute (API) Certified for Gasoline Engines (Certification mark) oil of SM or SN quality, the normal oil change interval is 3,000 mi (4,800 km).

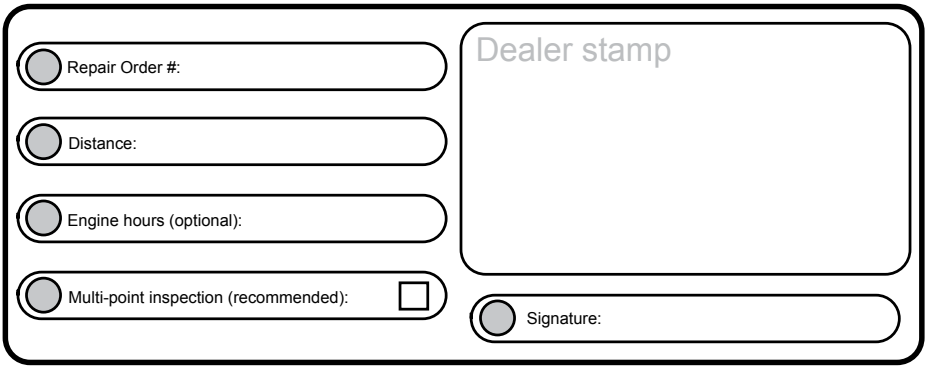
If the available API SM or SN oils are not available, then the oil change interval is 1,800 mi (2,900 km).

Engine Air Filter and Cabin Air Filter Replacement

The life of the engine air filter and cabin air filter is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the engine air filter and cabin air filter.

SCHEDULED MAINTENANCE RECORD

After the scheduled maintenance services are performed, record the Repair Order #, Distance and Engine Hours in the boxes provided.



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Repair Order #:

Distance:

Engine hours (optional):

Multi-point inspection (recommended):

Dealer stamp

Signature:

Repair Order #:

Distance:

Engine hours (optional):

Multi-point inspection (recommended):

Dealer stamp

Signature:

Repair Order #:

Distance:

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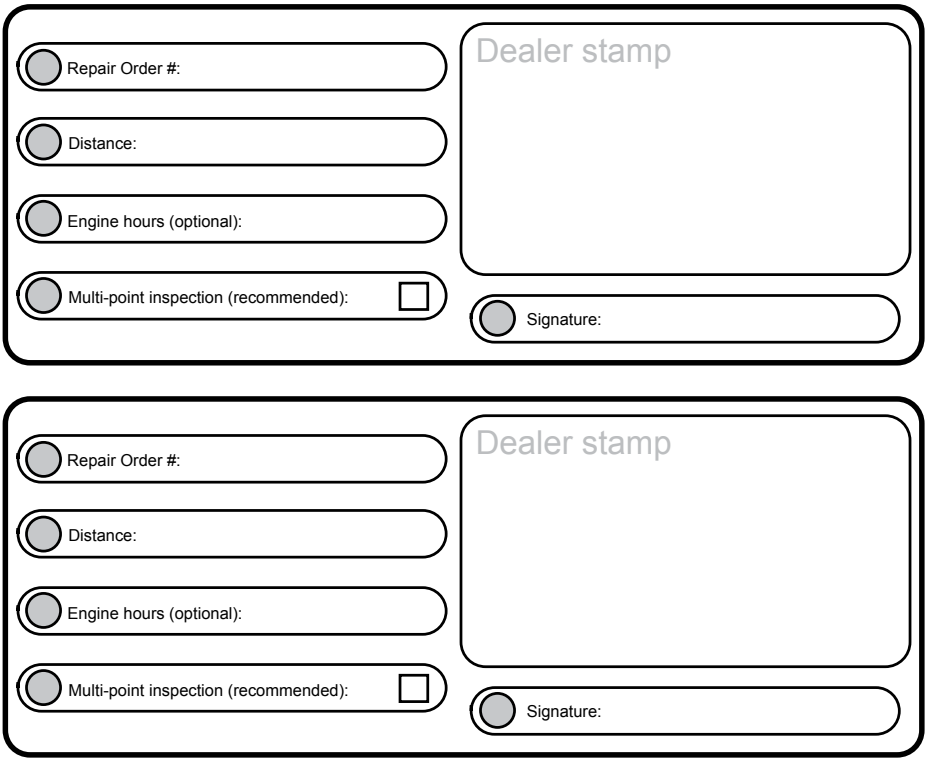

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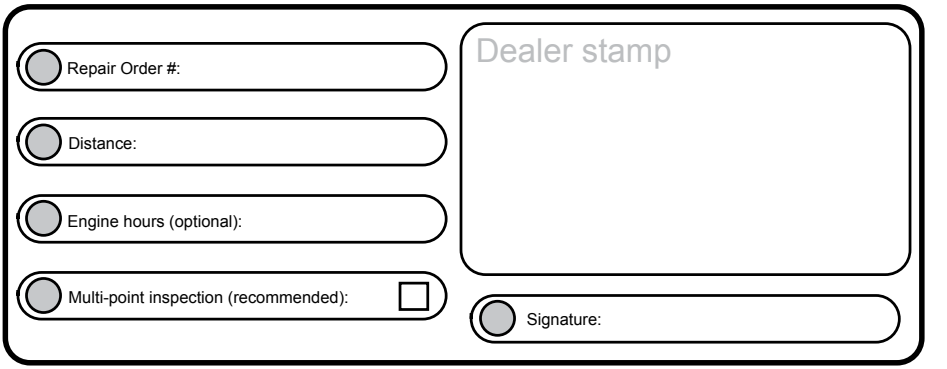
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Engine hours (optional):
Multi-point inspection (recommended):
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