

2019 **MUSTANG** Supplement Performance Package Level 2

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 duplication. 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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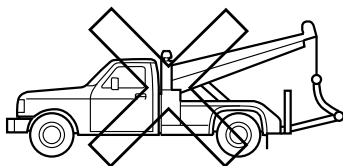
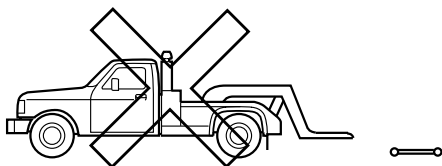
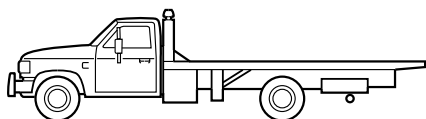
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Towing

TRANSPORTING THE VEHICLE



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

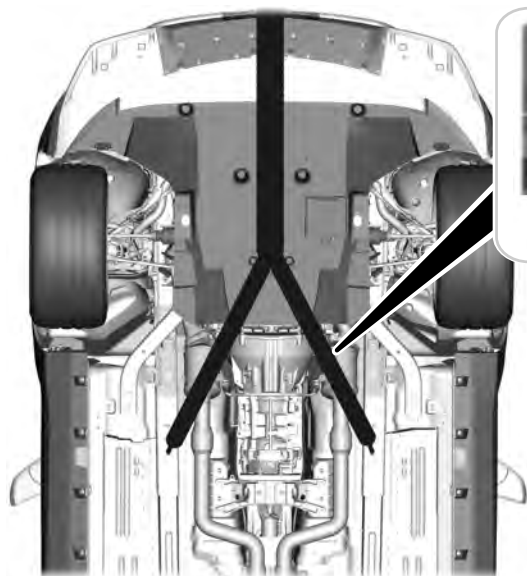
We recommend that your vehicle be towed with flatbed equipment only. When towing with a flatbed, race ramps or wood ramps must be used when loading or unloading your vehicle. Wheel baskets are required when flat bed towing.

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.

Towing

Transportation Instructions



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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.

BREAKING-IN

Ground Clearance



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Since ground clearance is reduced, use caution when approaching curbs or curb stops from the front and rear as vehicle damage may occur. Additionally, when crossing speed bumps or driveway curbs, you should approach 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.

Track Use



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.

Appropriately change the engine oil for racing and other track events:

- 5.0L: Drain the engine oil, replace the oil filter and change the engine oil to 5W-30. After the track event, drain the engine oil, replace the oil filter and refill with 5W-20.

Regularly check the engine oil level during the event. Maintain the engine oil level at or near the max mark on the engine oil dipstick.

Using your vehicle on a dedicated road course may result in degraded function and failure of major systems such as the engine, transmission and rear axle due to the overheating of these systems. If you intend to use your vehicle on a dedicated road course, it is suggested that you equip your vehicle with racing-type coolers to protect these systems.

In addition, if your vehicle is subjected to dedicated road course use, we recommend the following vehicle durability maintenance:

- Change the axle lubricant and friction modifier after the first hour of high-speed operation; thereafter change the axle lubricant and friction modifier every 12 hours when under these conditions.
- Change your transmission oil after each event where your vehicle is subjected to individual on-track sessions exceeding 15 minutes.
- Change your engine oil and filter after each event.

Additionally, perform a multi-point inspection on items specified in the scheduled maintenance section of the owner's manual before and after dedicated road course use. See the service manual for removal and installation procedures. Replace with Genuine Ford and Motorcraft™ service parts as needed.

These actions may not necessarily protect the powertrain from damage in dedicated road course use. Subjecting your vehicle to dedicated road course use even with these proposed precautions may render repairs non-reimbursable under the warranty.

Track Apps™

This information display driven feature provides a suite of menu options to record and optimize your track performances.

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

Track Use

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

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

Accelerometer

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.

Brake Performance

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

Exhaust Mode

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

Note: The **Track Exhaust Mode** setting is only for use at tracks and not for use on public roadways. Use of this setting results in increased exterior noise, which may not meet state and local laws and regulations. It is the obligation of the driver to operate the vehicle in a manner that complies with state and local requirements. Only use the **Track Exhaust Mode** setting at a competition track or an off-road course where elevated exterior vehicle noise is acceptable.

Lap Timer

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

Launch Control (If Equipped)

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 you enable launch control. The indicator illuminates in the instrument display.
3. Fully press the clutch pedal.
4. Shift the transmission into first gear.
5. Fully press the accelerator pedal and allow the engine RPM to stabilize.
6. Release the clutch pedal.

Line Lock

The intended use for line lock is at tracks only and should not be used on public roadways. Use of this feature may result in significantly increased rear tire wear. This feature conditions 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.

Track Use

This feature is 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 in to initiate line lock.

To initialize line lock, follow these conditions:

- 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 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.

To engage line lock, follow these conditions:

- 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 wet mode (if equipped).
- 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 immediately releases and normal vehicle function resumes. When line lock engages, a countdown timer shows the remaining time before line lock releases. 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 when line lock is engaged, line lock cancels and normal brake function resumes.*

Track Use

Start Option

Allows you to select the type of countdown the information display shows before starting an event.

Status Screen

Provides the status of your chosen performance-related settings.

View/Clear Results

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

Wheels and Tires

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) ¹
M14 x 1.5	150 ± 15 (200 ± 20)

¹ Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners.

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

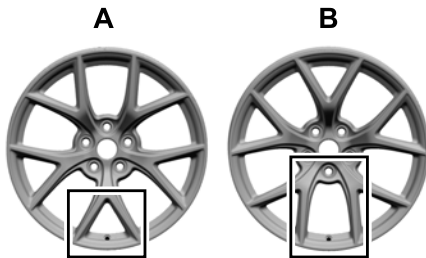
Wheels and Tires

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.

Your vehicle has low profile, high performance tires that are designed to optimize the driving dynamics you expect in a Ford 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.

Tires	Wheels
305/30R19 - front and rear	19 in. x 10.5 in. front, 19 in. x 11 in. rear

Note: As outlined in the previous table, there is one tire size for this vehicle. There are, however, different sized wheels on the front and rear positions. In order to identify that wheels are in their correct position, check the valve hole location as indicated in the following chart:



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- A 19 in. x 10.5 in. front wheel, with the valve hole in a smaller window.
- B 19 in. x 11 in. rear wheel, with the valve hole in a larger window.

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

- 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 45°F (7°C) 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.

Wheels and Tires

- 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.
- 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, immediately replace it.
- Proper suspension alignment is critical for maximum performance and optimal tire wear. If you notice uneven tire wear, have your alignment checked.
- Rotate tires as recommended in the tire rotation information. See Tire Care, in the Wheels and Tires Chapter of the Owner's Manual.
- Follow the rotation pattern for "Vehicles equipped with different size tires on the front and rear axle".
- 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.

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

USING WINTER TIRES

The original equipment tires on your Ford vehicle are designed for maximum performance in dry and wet summer conditions. They are not designed for winter use on ice or snow and cannot be used with tire chains. If you're operating your vehicle in these conditions, winter or all-season tires must be used.

- Use winter tires with the same load index as the summer tires originally equipped with your vehicle.
- Do not operate your vehicle above posted speed limits while using winter tires. Never perform high speed driving with winter tires.
- Do not exceed the speed rating of your tire.

Capacities and Specifications

VEHICLE PERFORMANCE SPECIFICATIONS

Performance Pack Level 2 Road Course Alignment Recommendations

Note: If you plan to participate in road course track days with your Performance Pack Level 2, we recommend the following chassis settings for optimal tire wear and handling performance.

Front	Performance Pack Level 2
Front camber	-1.5 –0/+0.75°

Tire Pressure (Cold)	Performance Pack Level 2
Front	28.0 psi (1.93 bar)
Rear	

Tire Pressure (Hot)	Performance Pack Level 2
Front	36.0 psi (2.48 bar)
Rear	

All settings are at curb loading condition.

Note: Tire pressure is measured after track use (hot). We recommend starting at 28.0 psi (1.93 bar)(cold).

Note: For track day use with Performance Pack Level 2, we recommend that you add aftermarket transmission and differential coolers. Your vehicle comes with electronic controls that, if required, reduces power and limits RPM to control powertrain temperatures.

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

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