2020 Corvette Stingray Track Preparation

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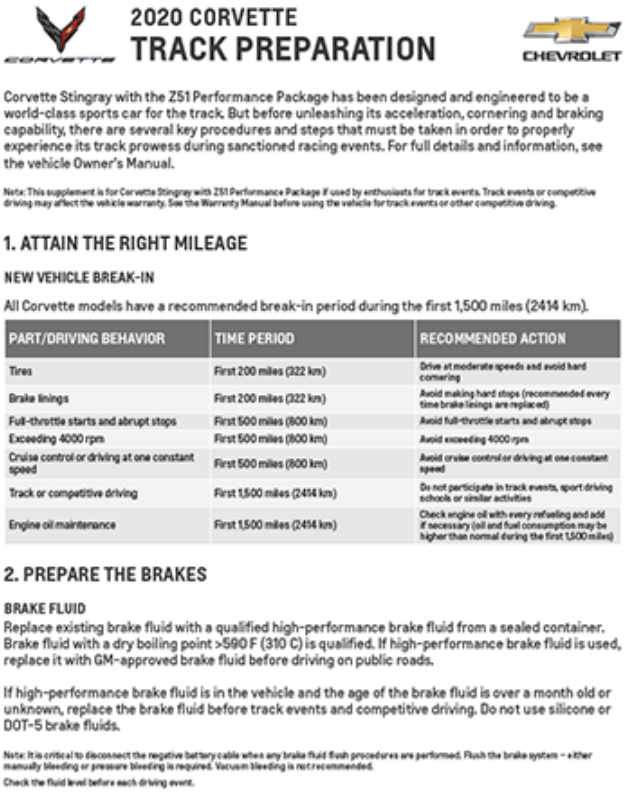
May 29, 2020
GM TechLink

The all-new 2020 Corvette Stingray is the fastest and most powerful entry-level Corvette ever produced. It's mid-engine proportions and rear weight bias along with a race car-like view and driver's seat positioning all enhance performance on the track. But before owners take their vehicles out on a closed course, there are a number of items to be checked and adjusted, including several key procedures that must be completed in order to properly prepare the Corvette Stingray for a day at a sanctioned racing event. (Fig. 1)

Fig. 1

The track prep requirements that should be undertaken before and after a track event are summarized in the recently released **2020 Corvette Track Preparation pdf** (Fig. 2) on GM GlobalConnect (U.S.). The supplement is for the Corvette Stingray with the Z51 Performance Package. For full details, refer owners to the vehicle Owner's Manual.



2020 CORVETTE
TRACK PREPARATION

CHEVROLET

Corvette Stingray with the Z51 Performance Package has been designed and engineered to be a world-class sports car for the track. But before unleashing its acceleration, cornering and braking capability, there are several key procedures and steps that must be taken in order to properly experience its track prowess during sanctioned racing events. For full details and information, see the vehicle Owner's Manual.

Note: This supplement is for Corvette Stingray with Z51 Performance Package if used by enthusiasts for track events. Track events or competitive driving may affect the vehicle warranty. See the Warranty Manual before using the vehicle for track events or other competitive driving.

1. ATTAIN THE RIGHT MILEAGE

NEW VEHICLE BREAK-IN

All Corvette models have a recommended break-in period during the first 1,500 miles (2414 km).

PART/DRIVING BEHAVIOR	TIME PERIOD	RECOMMENDED ACTION
Tires	First 200 miles (322 km)	Drive at moderate speeds and avoid hard cornering
Brake linings	First 200 miles (322 km)	Avoid making hard stops (recommended every time brake linings are replaced)
Full-throttle starts and abrupt stops	First 500 miles (800 km)	Avoid full-throttle starts and abrupt stops
Exceeding 4000 rpm	First 500 miles (800 km)	Avoid exceeding 4000 rpm
Cruise control or driving at one constant speed	First 500 miles (800 km)	Avoid cruise control or driving at one constant speed
Track or competitive driving	First 1,500 miles (2414 km)	Do not participate in track events, sport driving schools or similar activities
Engine oil maintenance	First 1,500 miles (2414 km)	Check engine oil with every refueling and add if necessary (oil and fuel consumption may be higher than normal during the first 1,500 miles)

2. PREPARE THE BRAKES

BRAKE FLUID

Replace existing brake fluid with a qualified high-performance brake fluid from a sealed container. Brake fluid with a dry boiling point >590 F (310 C) is qualified. If high-performance brake fluid is used, replace it with GM-approved brake fluid before driving on public roads.

If high-performance brake fluid is in the vehicle and the age of the brake fluid is over a month old or unknown, replace the brake fluid before track events and competitive driving. Do not use silicone or DOT-5 brake fluids.

Note: It is critical to disconnect the negative battery cable when any brake fluid flush procedures are performed. Flush the brake system – either manually bleeding or pressure bleeding is required. Vacuum bleeding is not recommended.

Check the fluid level before each driving event.

Fig. 2

TIP: The service items covered in the Track Preparation supplement are the responsibility of the customer and should not be submitted under warranty. Failure to follow the recommendations may void the vehicle's warranty.

The 2020 Corvette Track Preparation pdf includes:

1. Attain the Right Mileage – New vehicle break-in periods for various components and systems.

Vehicles must have over 1,500 miles (2,414 km) before participating in any track events, sport driving schools, or similar activities.

2. Prepare the Brakes – High-performance brake fluid use, the Brake Fade Warning Assist system, new brake pad burnishing procedure, and installing and removing the brake cooling kit.

Brake fluid flushing before and after a track event is critical. The battery must be disconnected prior to any brake service. If the brake pads on the vehicle need to be replaced, use GM-approved brake pads to ensure that the Brake Fade Warning Assist system functions properly.

3. Adjust Four Corners and Alignment – Shock spring seat adjustment, tire pressures for road courses, and racing and competitive driving wheel alignment settings.

4. Fluid Levels – Engine oil and dual clutch transmission (DCT) fluid and filter requirements.

0W-40 dexos2 engine oil is approved for both track and street use. The DCT transmission must have an additional 2 quarts (2 liters) of fluid added to the transmission prior to track use. The added fluid will help with possible low pump pressure due to the fluid being pushed up the side of the transmission case. It is not required to remove the additional DCT fluid.

5. Driver Mode and PTM Settings – Using the Driver Mode selector, Competitive Driving Mode settings and Performance Traction Management (PTM) settings.

After the track event, the Corvette Stingray should be returned back to the original factory settings using the proper fluids before normal street driving.

– Thanks to Jeff Strausser

Online URL:
https://www.corvetteactioncenter.com/tech/knowledgebase/article/2020-corvette-stingray-track-preparation-1425.html