CT4-V and CT5-V Blackwing MODELS TRACK PREPARATION

The CT4-V Blackwing and CT5-V Blackwing have been built for track performance in sanctioned racing events. But before unleashing their acceleration, cornering and braking capability, there are several key procedures and steps that must be taken in order to properly experience their track dominance. For full details and information, see the CT4/5 Owner's Manual.

Please note: It is the driver's responsibility to obey all applicable traffic laws at all times. This supplement is for the purpose of racing enthusiasts for sanctioned racing events. Track events or competitive driving may affect the vehicle warranty. See the warranty manual before using the vehicle for racing or other competitive driving.

1. ATTAIN THE RIGHT MILEAGE

NEW VEHICLE BREAK-IN

Models: CT4-V Blackwing and CT5-V Blackwing

All models have a required break-in period during the first 1,500 miles (2414 km) that can help with the life of their performance.

PART/DRIVING BEHAVIOR	TIME PERIOD	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 1,500 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 1,500 miles (800 km)	Avoid cruise control or driving at one constant speed
Letting the engine labor or lugging the engine	First 1,500 miles (800 km)	Avoid letting the engine labor or lugging the engine. With a manual transmission, shift to the next lower gear (this rule applies at all times, not just during the break-in period)
Vehicle Speed	First 1,500 miles (800 km)	Do not drive above 80mph
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) Please note: It is recommended that the first oil change occur at 500 miles.

For full details and information, see the vehicle's Owner's Manual.

2. SEASON THE BRAKES

BRAKE BURNISH PROCEDURE

Models: CT4-V Blackwing, CT5-V Blackwing

1. From a stop, accelerate as rapidly as possible without activating traction control to a speed of 60mph.
2. Using the G-Force Gauge in the HUD display, use enough pedal force to completely stop the vehicle in four to five seconds. If ABS activates, braking is too hard.
3. Repeat the first two steps 20 consecutive times, this should take about five minutes.
4. After completing the 20 stops, cool the brakes by driving for 5mi at 60mph.

Please note: During the burnishing procedure, the brake pads will smoke and produce an odor. The braking force and pedal travel may increase. After the procedure is complete, the brake pads may appear white at the rotor contact.

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BRAKE COOLING PREPARATION

Model: CT4-V Blackwing, CT5-V Blackwing

Prior to any track event, high speed driving event, or competitive driving, complete the following:

1. Ensure all the brake cooling parts are correctly secured and installed.
2. Inspect and replace and deflectors that have damage.
3. Inspect for blockage in the front brake cooling duct prior to every event.
4. Remove front tire deflector (if equipped).

If improved brake cooling is desired on Blackwings with cast-iron brakes (JGH) install the ball joint protector front shield, remove both upper and lower rear rotor shields, and install the rear lower control arm cooling deflectors per the instruction in the brake cooling kit.

For full details on how to install, see the Owner's Manual (pages 194-195).

3. ADJUST THE FOUR CORNERS AND VEHICLE COMPONENTS

TIRE PRESSURE AND WHEEL ALIGNMENT

Tire pressure specifications are listed in psi (kPa). Limit the vehicle weight to a maximum of the driver and one passenger, with no additional cargo.

MODEL	AXLE	ROAD COURSE COLD STARTING PRESSURES[2]	ROAD COURSE TARGET HOT PRESSURES[2]	DRAG STRIP COLD STARTING PRESSURES	SUSTAINED HIGH-SPEED COLD STARTING PRESSURES
CT5-V Blackwing	Front	28 psi	35-38 psi	N/A	41 psi
	Rear	28 psi	35-38 psi	N/A	42 psi
CT4-V Blackwing	Front	30 psi	35-38 psi	N/A	44 psi
	Rear	28 psi (190 kPa)	37-39 psi (255-270 kPa)	26 psi (180 kPa)	44 psi

1 *Do not use summer-only tires in winter conditions, as it would adversely affect vehicle safety, performance and durability. Use only GM-approved tire and wheel combinations. Unapproved combinations may change the vehicle's performance characteristics. For important tire and wheel information, go to https://my.chevrolet.com/learnAbout/chevrolettires or see your dealer for details.*

2 *Value will vary based on driving style, track, temperature and weather conditions.*

Please note: The CT4-V Blackwing and CT5-V Blackwing are equipped with high performance summer-only tires. These tires have a special tread and compound that are optimized for maximum dry and wet road performance. This special tread and compound will have decreased performance in cold climates, and on ice and snow. It is recommended that winter tires be installed on the vehicle if frequent driving at temperatures below approximately 40°F (5° C) or on ice- or snow-covered roads is expected.

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WHEEL ALIGNMENT

Wheel alignment settings should be set as follows for optimized road course usage.

MODEL	AXLE	CASTER (NOT ADJUSTABLE)		CAMBER		TOTAL TOE	STEERING WHEEL ANGLE	THRUST ANGLE
		LEFT	RIGHT	LEFT	RIGHT	(LEFT + RIGHT)		(LEFT – RIGHT/2)
CT5-V Blackwing Track Alignment Settings	Front	7.9°	7.9°	-2.5° ± 0.15°	-2.5° ± 0.15°	0.1° ± 0.05°	0.0° ± 3.5°	—
	Rear	—	—	-1.5° ± 0.15°	-1.5° ± 0.15°	0.1° ± 0.05°	—	0.0° ± 0.1°
CT5-V Track Alignment Settings	Front	6.9°	6.9°	-2.0° ± 0.15°	-2.0° ± 0.15°	0.1° ± 0.05°	0.0° ± 3.5°	—
	Rear	—	—	-1.7° ± 0.15°	-1.7° ± 0.15°	0.1° ± 0.05°	—	0.0° ± 0.1°
CT4-V Blackwing Track Alignment Settings	Front	6.9°	6.9°	-2.4° ± 0.15°	-2.4° ± 0.15°	0.1° ± 0.05°	0.0° ± 3.5°	—
	Rear	—	—	-1.8° ± 0.15°	-1.8° ± 0.15°	0.1° ± 0.05°	—	0.0° ± 0.1°
CT4-V Track Alignment Settings	Front	6.9°	6.9°	-2.0° ± 0.15°	-2.0° ± 0.15°	0.2° ± 0.05°	0.0° ± 3.5°	—
	Rear	—	—	-1.7° ± 0.15°	-1.7° ± 0.15°	0.2° ± 0.05°	—	0.0° ± 0.1°

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4. CHECK YOUR FLUIDS

Models: CT4-V Blackwing, CT5-V Blackwing

Be sure to follow all service procedures before driving your Blackwing on the track or competitively.

FLUID/LUBRICANT	TO DO	WHEN
Engine Oil CT4-V Blackwing: dexos1Gen3 5w-30 CT5-V Blackwing dexosR 0w-40 (Currently only Mobil 1 Supercar)	Check the oil level and keep it at or near the upper mark that shows the proper operating range on the engine oil dipstick.	Often (before, during and after every track event or competitive driving session) Please note: If you use the vehicle for racing or other competitive driving, the engine may use more oil than it would with normal use. Low oil levels can damage the engine. Be sure to check the oil level often during racing or other competitive driving and keep the level at or near the upper mark that shows the proper operating range on the engine oil dipstick.
Automatic Transmission Fluid – CT4V-Blackwing and CT5-V Blackwing (DEXRON® ULV Automatic Transmission Fluid)	Change after track usage.	Every 15 hours
DOT-4 Brake Fluid	For track events or competitive driving, it is recommended that the brake fluid be replaced with a high-performance brake fluid that has a dry boiling point greater than >310° C (590° F). After conversion to the high-performance brake fluid, follow the brake fluid service recommendations outlined by the fluid manufacturer. Do not use silicone or DOT-5 brake fluids.	Before every track event or competitive driving session
Rear Differential Fluid CT5-V Blackwing SAE 75W-85 API GL5 AC Delco 19418501	Change after 1,500 miles prior to first track event.	Change every 24 track hours

Please note: Chevrolet recommends the use of TOP TIER™ Detergent Gasoline to keep the engine cleaner and reduce engine deposits. Visit www.toptiergas.com for a list of TOP TIER Detergent Gasoline marketers. Use premium unleaded gasoline meeting ASTM specification D4814 with a posted octane rating of 93. If unavailable, unleaded gasoline with a posted octane rating of 91 may be used but with reduced performance and fuel economy.

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5. ADJUST THE SUSPENSION

Models: **CT4-V Blackwing**.

Track Prep – Camber

To achieve the maximum camer setting for track use, follow this procedure prior to the final track alignment.

1. Remove the Upper Radiator Baffle and both front tower shock braces
2. Remove strut rebound top
3. Using a punch, tap out the strut top mount alignment pins. Use compressed air or other method to ensure no debris remains between top mount and upper spring seat
4. Loosen the final strut top mount fastener. Do not completely remove this fastener
5. Reposition the suspension/strut assembly so that the strut top mount is located as close to the center of the vehicle as possible (inboard)
6. With the suspension located as far inboard as possible, retitghten the loose fastener and torque it to 194 in-lbs
7. With the car on the ground, reinstall the strut rebound stop and torque it to 212 in-lbs
8. With the car on the ground, reinstall the Upper Radiator Baffle and both front shock tower braces. Torque the fasteners as follows:
    a. Front tower brace mounting bolts to 194 in-lbs
    b. Front strut top mount nuts to 194 in-lbs
9. Complete setting the track alignment per the track specifications

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6. CUSTOMIZE YOUR PERFORMANCE

DRIVER MODE SELECTOR

Models: **CT4-V Blackwing and CT5-V Blackwing**

When maximum vehicle handling is desired for track use or competitive driving, Track Mode should be selected using the Driver Mode Selector switch. When in Track Mode, the accelerator pedal is adjusted to give maximum control during the highest level of spirited driving. If the vehicle is equipped with Magnetic Ride Control™, it will be set to optimum level for vehicle responsiveness. If the vehicle is equipped with Active Exhaust, the exhaust valves will be open.

CUSTOM LAUNCH CONTROL

Models: **V-Series Blackwings**. Custom Launch Control allows the Launch RPM, Slip Target (5%-15%) and Surface Type parameters for Launch Control to be modified.

To adjust Launch RPM:

- The vehicle must be in Track Mode
- Performance Traction Management (PTM) Mode must be enabled
- The steering wheel must be straight and the driver door closed
- The transmission must be in a gear other than R (Reverse). It will work in P (Park) or N (Neutral)
- The parking brake must not be engaged

Using the steering wheel 5-way controller, scroll to "Options" on the Driver Information Center menu to select your Surface, Launch RPM and desired Slip Target. For full details and information, see Owner's Manual.

LINE LOCK

Models: **V-Series Blackwings**.

Line Lock allows for locking the front brakes independently of the rear brakes. This allows the rear tires to spin when the throttle is applied. To enter Line Lock, all of these conditions must be met:

- The vehicle must be in Track Mode
- Performance Traction Management (PTM) Mode must be enabled
- The steering wheel must be straight and the driver door closed
- The vehicle must be in D (Drive) for automatic transmission or 1st (First) gear for manual transmission • The parking brake must not be engaged
- The vehicle must be stopped on level ground and the accelerator pedal must not be applied

Using the buttons on the right side of the steering wheel, scroll to "Launch Control" on the Driver Information Center menu to select an Automatic or Custom launch. From there:

- Select Line Lock, then press the brake pedal firmly to move the bar graph to 100%
- Release the brake pedal. There are 15 seconds to complete the burnout and exit
- To release the brakes and roll out, press the tachometer symbol and SEL at the same time

For full details, see the Owner's Manual.