



GTB SERIES RACE CARS



MAINTENANCE MANUAL

RACE CAR MAINTENANCE

Bilt Racing Service recommends that the following minimum maintenance work is carried out after the corresponding mileage or operation time. These recommendations are based on normal wear and tear for a street car in race use. Damage to the vehicle and its sub-systems in the course of operation either due to crash damage or any other damage may require additional repairs above and beyond those listed in this schedule.

See following pages for detailed maintenance sheets. The use of checklists is not mandatory, but recommended - It will help keeping track of your vehicle maintenance history. For your convenience, the sheets can be downloaded / printed at:

<http://docs.biltracingservice.com>

ENGINE OIL CHANGE SERVICE

Suggested oil change interval is after every track event and not to exceed 10 hours track time. BRS exclusively recommends Driven XP7 #01707 (semi-synthetic) or XP9 #03207 (full synthetic) race oil along with Genuine Porsche or OEM oil filter #9A1 107 224 00. The LN Engineering Magnetic drain plug #106-07 should be changed every year and torqued to 19 ft/lb.

Always inspect filter and drain plug magnet for debris. Used oil analysis is recommended to monitor overall engine health at every oil change service. Contact Bilt Racing Service for pre-paid oil analysis monitoring.

FUEL SYSTEM MAINTENANCE

Regular use of fuel system cleaner will help control combustion chamber deposits and keep injectors clean. We use and recommend Driven Carb Defender #70040 after every race weekend or three tanks of fuel.

There is no serviceable fuel filter in your vehicle. The fuel pump has an integrated screen on the pickup that serves as the fuel filter.

VEHICLE STORAGE

Always put your race car into storage with clean oil. Do not store your engine with used oil that has already seen track use. If your car is going to sit more than 30 days without use, we recommend using Driven Storage Defender Fuel & Oil Kit # 80004, which includes storage additives for both the oil and fuel system.



INITIAL CHECK - AFTER APPROX. 75 MILES AND/OR FIRST TEST

DATE:

CHECKLIST

- ☐ A. Visual inspection of all systems, hoses, and cables etc. for leakage, damage, and/or chafing

- ☐ B. Tighten all fasteners to the defined torque specified by Porsche or the component manufacturer
 - ☐ All suspension mounting bolts
 - ☐ Driveshafts
 - ☐ Engine mountings
 - ☐ Gearbox mountings

NOTES



AFTER EVERY SESSION

CUMULATIVE SESSION NUMBER:

DATE:

CHECKLIST

- | | |
|--|---|
| ☐ Visual inspection of all systems, hoses, and cables etc. for noises, excessive wear or play, leakage, damage, and/or chafing. | ☐ Clean pedal box area and check functionality |
| ☐ Check the specified torque setting of every safety relevant fastener | ☐ Clean and inspect wheels and wheel safety mechanism |
| ☐ Check dampers for leakage | ☐ Check oil level (should be set to lowest bar on the level indicator) |
| ☐ Drain the fuel and calculate the fuel consumption if equipped with optional pump out | ☐ Check coolant level |
| ☐ Check all suspension bearing for play | ☐ Check driveshaft rubber boots for amage |
| ☐ Clean coolers and radiators | ☐ Check steering system rubber boots for damage |
| ☐ Clean dust and rubber pick-up from brake discs + calipers | ☐ Check all systems for leakage |
| ☐ Clean and inspect wheels/tires and inspect wear indicators, check for flat spots, cuts, cording etc. | ☐ Check brake lights |
| ☐ Bleed brake system with Motul RBF 660 (101667) | ☐ Check body panel safety pins |
| ☐ Bleed clutch (manual gearbox only, once per weekend) | ☐ Check gear cooler pump for operation |
| ☐ Check brake/clutch fluid levels | ☐ Check cool suit and helmet/defrost blowers for flow |
| ☐ Check power steering fluid level | ☐ Check radio system for communication |
| ☐ Inspect/replace brake pad/rotors/hoses | ☐ Check tire pressures |

NOTES:



SERVICE A / B[!] - AFTER EVERY RACE EVENT

not to exceed 500 miles or 10 hours cumulative running time

CUMULATIVE EVENT NUMBER:

DATE:

! for odd numbers SERVICE B is also required

CHECKLIST

☐ All points of AFTER SESSION inspection

- ☐ Perform vehicle interrogation with PIWIS to check for pending or present faults in vehicle
- ☐ Flush brake system (Motul RBF 660)
- ☐ Check brake balance system and settings (manual transmission only)
- ☐ Engine oil and filter change using Driven XP9 (03206) and oil filter (9A1 107 224 00)
- ☐ Check and correct coolant level with distilled water and Driven CSP (50030)
- ☐ PDK fluid service (no filter change) using Pentosin DCT Fluid (000 043 207 29)
- ☐ Perform steering angle calibration procedure with PIWIS
- ☐ Verify operation of sport, sport plus, and psm switches with PIWIS
- ☐ Check for clutch wear
- ☐ Inspect polyrib drive belt
- ☐ Check for wheel bearing play

- ☐ Inspect driveshafts for wear/play/plunge/leakage
- ☐ Check air-jacks for leakage and if seated correctly
- ☐ Check throttle, brake, clutch pedal(s) for breakage or looseness
- ☐ Check seat and safety harnesses
- ☐ Check fire system
- ☐ Test electric cut-off switch
- ☐ Download data and check data system for proper operation including camera, GPS, etc.
- ☐ Verify vehicle alignment and setup and correct or adjust per track or driver request.

! SERVICE B - AFTER EVERY OTHER RACE EVENT:

- ☐ In addition to PDK fluid service, replace filter (9G1 321 025 00)
- ☐ Gear fluid change using Driven Go 75w90 Limited Slip Gear Oil (04230)
- ☐ Change power steering fluid with Driven PSF (01306)
- ☐ Clean/replace air filter (987 110 133 00)



RACE EVENT NOTES

CUMULATIVE EVENT NUMBER:

DATE:

NOTES:



SERVICE C - AFTER ONE RACE SEASON

not to exceed 25 hours running time

RACE SEASON:

DATE:

CHECKLIST

☐ All points of AFTER SESSION and AFTER EVENT A + B inspection

☐ Perform Compression/Leakdown Test (should not exceed 10% leakdown and compression numbers should not exceed 10 lbs difference between any one cylinder)

☐ Replace spark plugs and inspect/replace ignition coils

☐ for any cracks or carbon traces

☐ Inspect/replace fuel pump and filter

☐ Clean/replace mass air flow sensor

☐ Replace primary oxygen sensors

☐ Replace wheel bearings

☐ Replace engine coolant with fresh distilled water and Driven CSP (50030)

☐ Inspect/replace water pump and thermostat

☐ Replace polyrib drive belt

☐ Inspect/rebuild brake calipers

☐ Inspect/rebuild dampers

☐ Rebuild / replace driveshafts

☐ Replace drop links

☐ Replace wheel studs and nuts

NOTES:



SERVICE D / E - AFTER TWO RACE SEASONS / 100HRS

not to exceed 50 hours cumulative running time or 25 hours in one season

RACE SEASON:

DATE:

SERVICE D - AFTER TWO RACE SEASONS:

- ☐ All points of AFTER SESSION, AFTER EVENT A + B and AFTER ONE RACE SEASON services
- ☐ Replace radiators
- ☐ Replace toe rods
- ☐ Replace control arms
- ☐ Replace monoball ends

NOTES:

SERVICE E - AFTER 100 HOURS RUNNING TIME:

- ☐ All points of AFTER SESSION, AFTER EVENT A + B, AFTER ONE SEASON and AFTER TWO SEASONS services
- ☐ Replace radiators
- ☐ Replace toe rods
- ☐ Replace control arms
- ☐ Replace monoball ends

NOTES:





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