

BMW · G83 · S58

M4 COMPETITION

QT1000

BUILT ENGINE · SINGLE TURBO · PORT INJECTION

6870
PRECISION SINGLE TURBO

E85
FLEX FUEL · REFLEX+

S58
BUILT ENGINE

BMW M4 COMPETITION · G83

OVERVIEW

M4 Competition xDrive Convertible on the QT1000 package: a built S58 with CP and CP-Carrillo Pro-Xtreme internals and Kelford Camshafts, a Precision 6870 Single Turbo, CSF charge air cooling, Motiv Reflex+ port injection and an R44 Titanium Cat-Back Exhaust, with custom engine and transmission calibrations.

6870	E85	ID1050x
PRECISION SINGLE TURBO	FLEX FUEL · REFLEX+	PORT INJECTION

VEHICLE	BMW M4 Competition xDrive Convertible (G83)
ENGINE	S58 · CP Forged Pistons · CP-Carrillo Rods · Kelford Camshafts
PACKAGE	QT1000
TURBO	Precision 6870 Single Turbo · 1.15 A/R · T51R Mod Wastegate
CHARGE AIR	CSF Intake Manifold · CSF Front Mount Heat Exchanger
FUEL	Motiv Reflex+ · ID1050x Port Injectors · Precision Raceworks LPFP
EXHAUST	Catless Downpipe · R44 Titanium Midpipe & Muffler · OPF Removed
ENGINE CALIBRATION	Custom Flex Fuel Calibration · Rolling Anti-Lag
TRANSMISSION	8-speed M Steptronic · XHP Stage 3 Custom TCU Calibration





03 / ENGINE · INTERNALS

ENGINE

The S58 is built with CP Forged Pistons (84 mm, 9.3:1) and CP-Carrillo Connecting Rods from the Pro-Xtreme range. The cylinder head carries Kelford Camshafts, Ferrea Valves and Kelford Valve Springs, with NGK Spark Plugs gapped to 0.023".

CP FORGED PISTONS	Pro-Xtreme · 84 mm · 9.3:1
CP-CARRILLO CONNECTING RODS	Pro-Xtreme
KELFORD CAMSHAFTS	S58
FERREA VALVES	30.1 mm in / 28.5 mm ex
KELFORD VALVE SPRINGS	110 lbs
NGK SPARK PLUGS	SILZKGR8E8S

FORGED PISTONS · FORGED RODS · KELFORD CAMS · FERREA VALVES

04 / FORCED INDUCTION

TURBO

The factory twin-turbo layout is replaced by a Precision 6870 Single Turbo with a 1.15 A/R turbine housing. Boost is controlled through a T51R Mod Wastegate on a 14 psi spring, driven by Dual MAC Solenoids.

PRECISION 6870 SINGLE TURBO	1.15 A/R
T51R MOD WASTEGATE	14 psi spring
DUAL MAC SOLENOIDS	Boost control

SINGLE TURBO · PRECISION 6870 · T51R MOD





05 / CHARGE AIR COOLING

CHARGE AIR

Charge air is cooled by the CSF Intake Manifold with its integrated charge air cooler, supported by a CSF Front Mount Heat Exchanger.

CSF INTAKE MANIFOLD	Charge air cooler
CSF FRONT MOUNT HEAT EXCHANGER	Front mount

CSF · INTAKE MANIFOLD · HEAT EXCHANGER

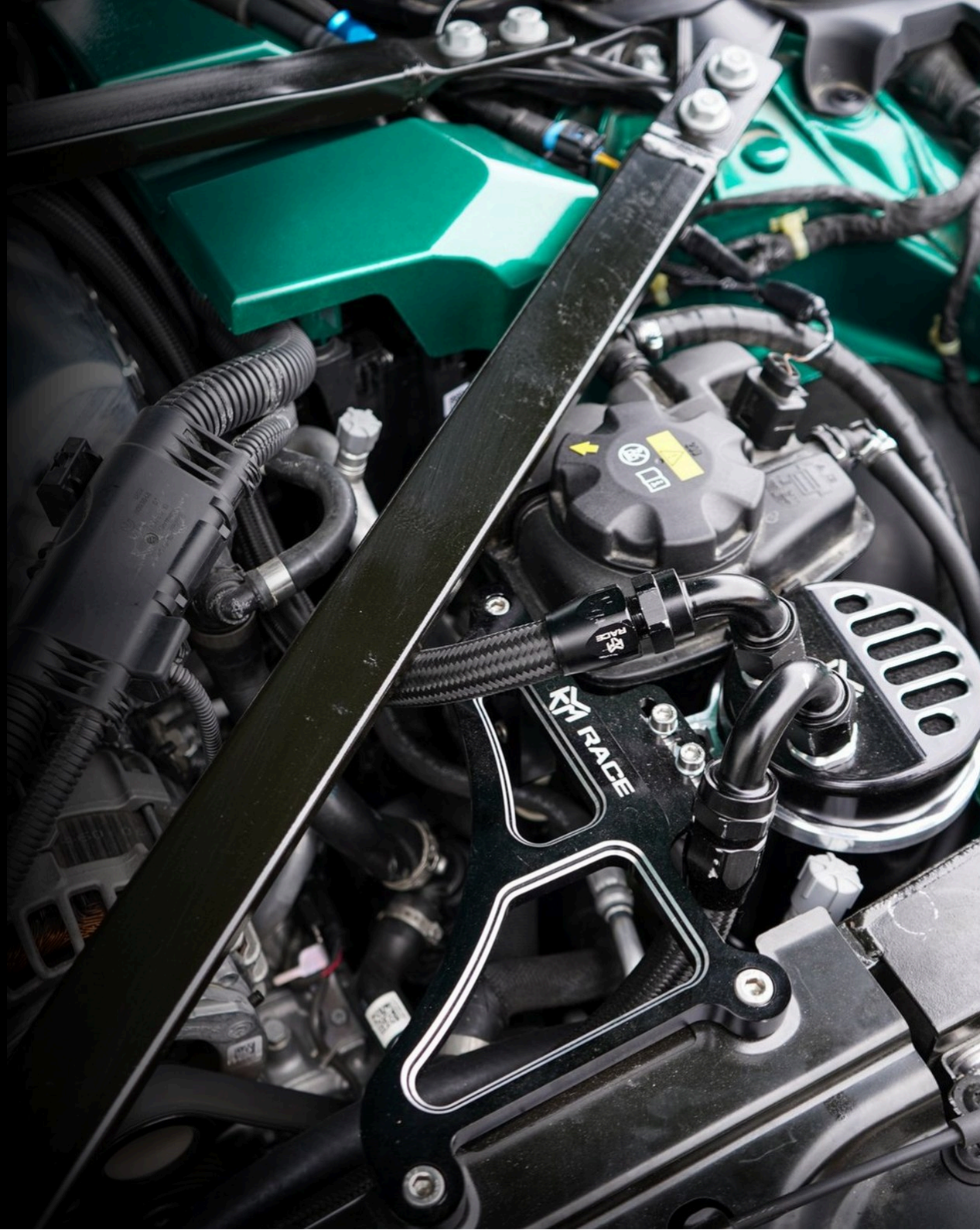
06 / FUEL · PORT INJECTION

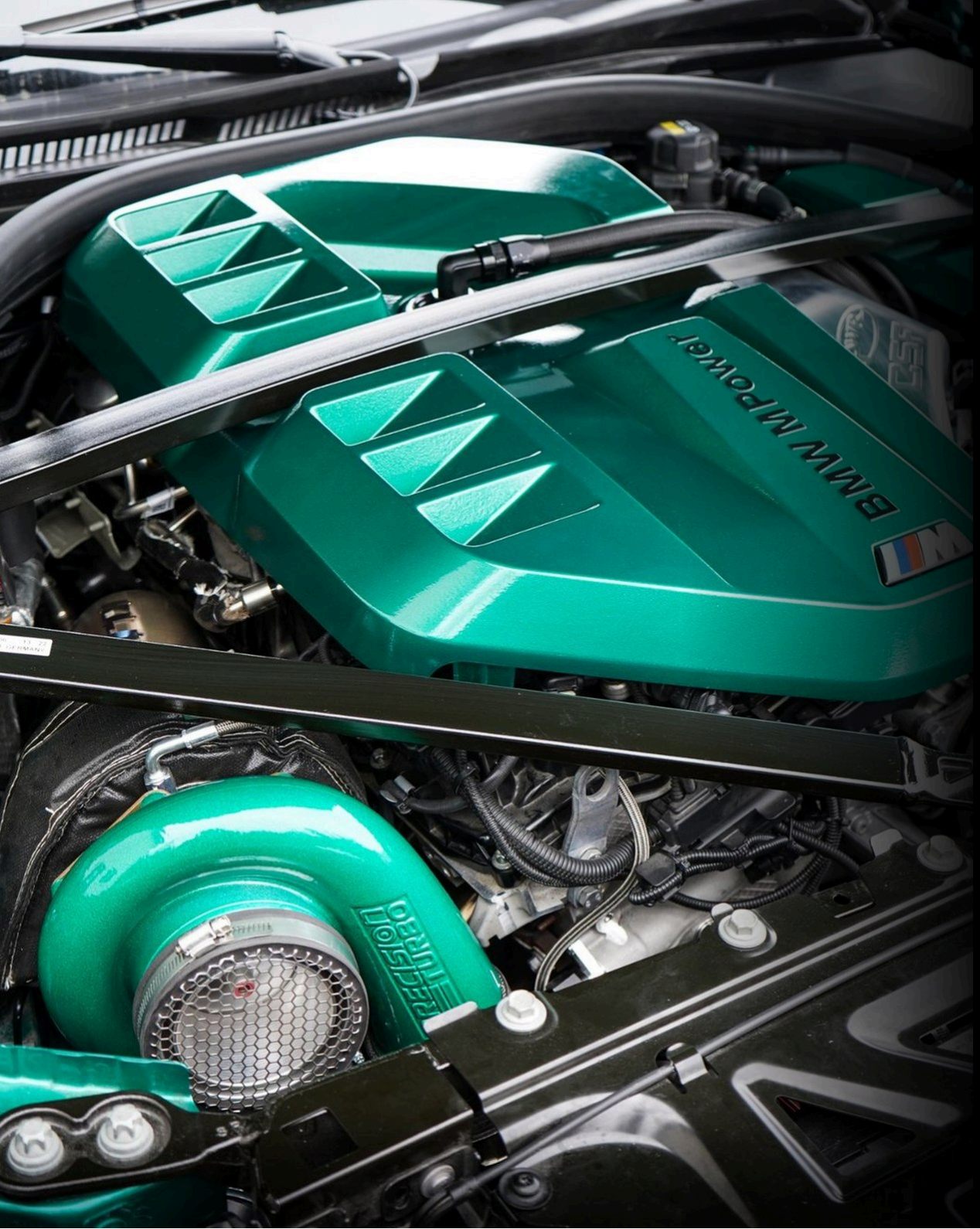
FUEL SYSTEM

Motiv Reflex+ reads ethanol content and controls the port injection: ID1050x Port Injectors on a CSF Fuel Rail, fed by a Precision Raceworks Stage 2.5 525 LPFP Add-On. Fuel pressure is monitored with a Precision Raceworks Fuel Pressure Sensor, without a pressure regulator.

MOTIV REFLEX+	Flex fuel · PI control
ID1050X PORT INJECTORS	CSF Fuel Rail
PRECISION RACEWORKS LPFP	Stage 2.5 · 525 add-on
FUEL PRESSURE SENSOR	Precision Raceworks

FLEX FUEL | PORT INJECTION | REFLEX+ | E85





07 / ENGINE · TRANSMISSION

CALIBRATION

The engine runs a Custom Flex Fuel Calibration on MHD with Rolling Anti-Lag. The 8-speed M Steptronic runs an XHP Stage 3 Custom TCU Calibration.

CUSTOM FLEX FUEL CALIBRATION	MHD
ROLLING ANTI-LAG	Enabled
CUSTOM TCU CALIBRATION	XHP Stage 3

MHD · ANTI-LAG · XHP STAGE 3

08 / EXHAUST

EXHAUST

A Catless Downpipe leads into an R44 Titanium Race Cat-Back Exhaust with Titanium Midpipe and Muffler, finished with carbon fibre tail pipes. The OPF has been removed.

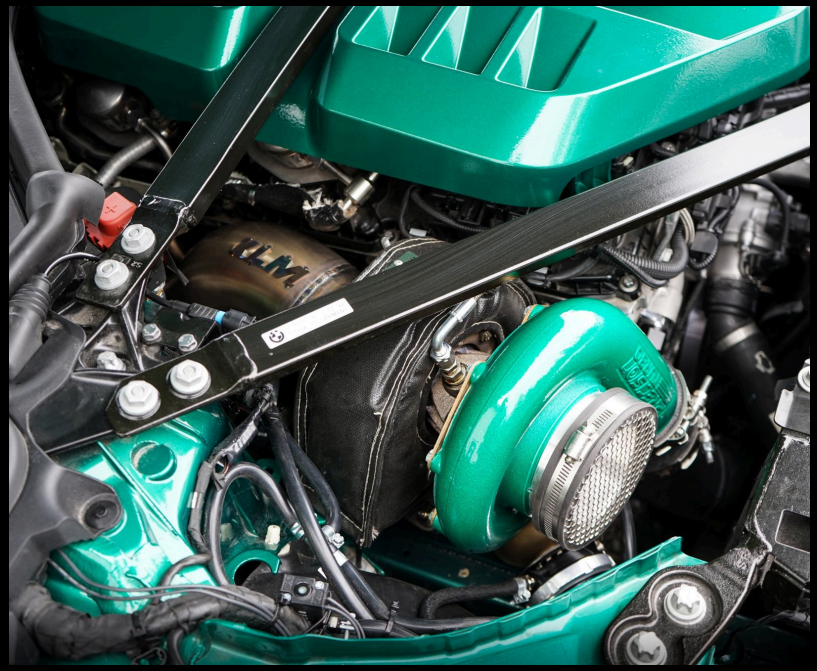
CATLESS DOWNPIPE	Single turbo
R44 TITANIUM MIDPIPE	Race cat-back
R44 TITANIUM MUFFLER	Carbon fibre tips
OPF REMOVED	Particulate filter

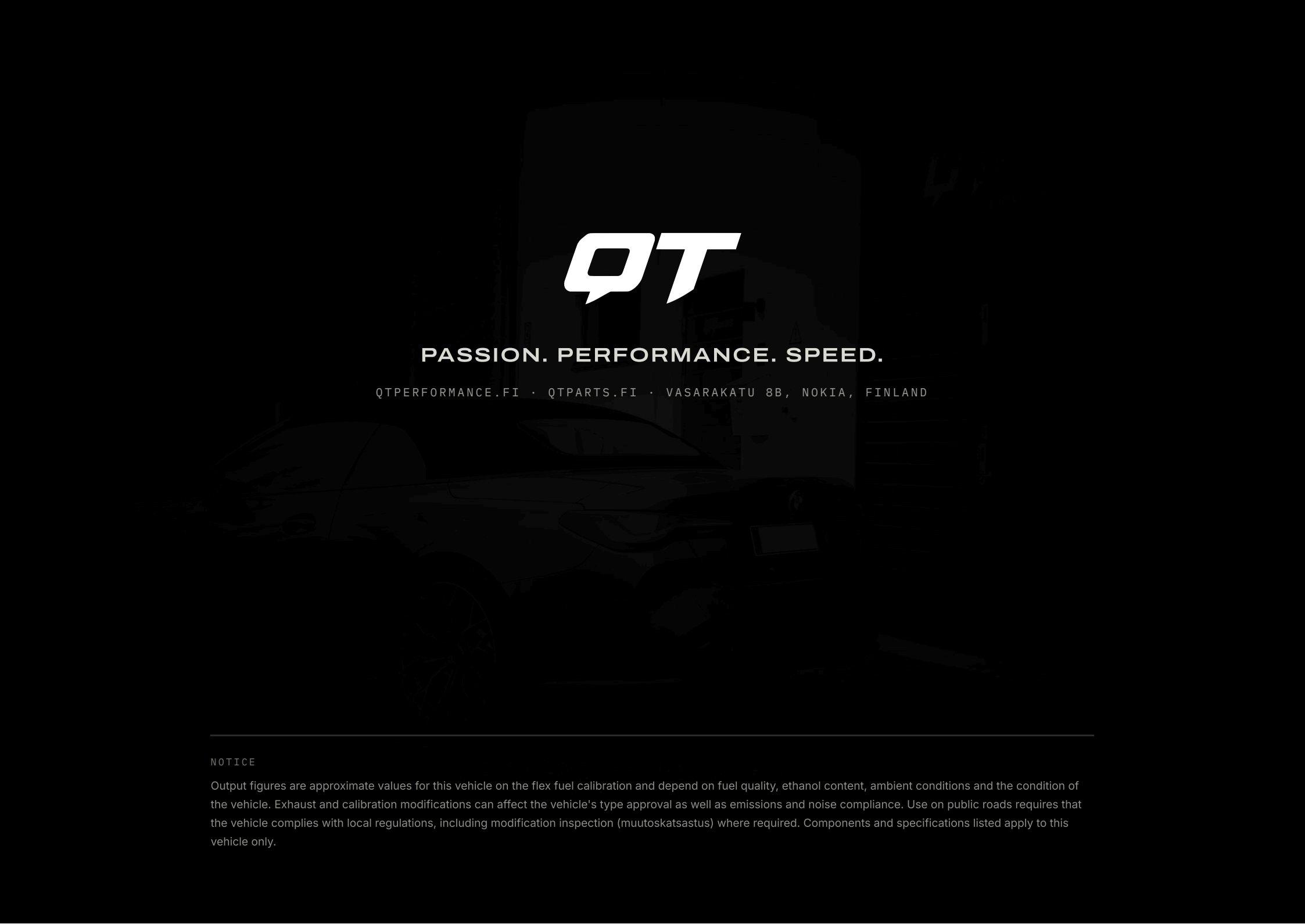
R44 · TITANIUM · CATLESS




ADVAN Sport
M4 competition


BMW
M4 competition





PASSION. PERFORMANCE. SPEED.

QTPERFORMANCE.FI · QTPARTS.FI · VASARAKATU 8B, NOKIA, FINLAND

NOTICE

Output figures are approximate values for this vehicle on the flex fuel calibration and depend on fuel quality, ethanol content, ambient conditions and the condition of the vehicle. Exhaust and calibration modifications can affect the vehicle's type approval as well as emissions and noise compliance. Use on public roads requires that the vehicle complies with local regulations, including modification inspection (muutoskatsastus) where required. Components and specifications listed apply to this vehicle only.