

MOSSELMAN

TURBO SYSTEMS



High-end performance parts for BMW and Mini.



In-house designed and manufactured performance parts.



Serious Performance only.

Mosselman Turbo Systems,

Is a Dutch manufacturer of high quality performance parts designed specifically for use in BMW and Mini cars. If you own a BMW or a Mini, you can bet your bottom dollar we have the parts you need to make it go faster. Whether it's ECU remaps, turbochargers, oil thermostats, engine management systems or even full exhausts systems, Mosselman Turbo Systems has a wide selection of carefully made performance parts for your car.

Furthermore, Mosselman Turbo Systems has been in the tuning business for over 40 years and the vast majority of our products has been designed, tested and manufactured in-house. These are our products and we stand by them.

If you have any questions about the Mosselman parts catalogue or want to know more about tuning your car, do not hesitate to contact us. Careful though, odds are we're just as crazy about your BMW or Mini as you are. Don't say we didn't warn you.



Our Products

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Our thoughts on performance

Tuning a car is a delicate thing. Whether it's an ECU remap, a new turbo or a full-on stage three tuning, you need to make sure each component is working at optimal efficiency under careful supervision of a sufficiently smart engine management system. After all, you're looking to create a symphony and that's hard to do when one of the instruments is off. That's why all of our products are designed and built in-house. Professional tuning requires a steady hand and we want to be solely responsible for getting the most out of your car.

So where do you start?

Because most modern engines are heavily restricted due to emission regulations, an ECU remap or installation of an engine control unit is always the first step towards unlocking the performance your BMW or Mini is capable of. However, as our name implies, we do have upgraded turbos, should you be in the market for one.

In addition, Mosselman Turbo Systems offers more efficient intake and exhaust systems, thermostats, oil coolers and intercoolers. So if you're looking for more performance, you've come to the right place.

Manufacturer of high-end BMW performance parts







BA-31350
A/C/A/4
SP/VC

M-BATTEN
M-BATTEN
M-BATTEN

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ECU Remap

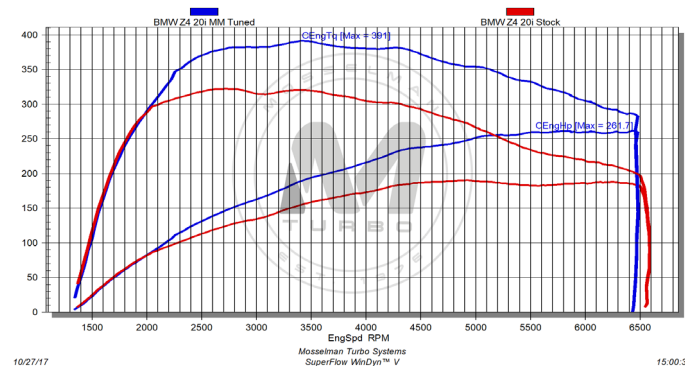
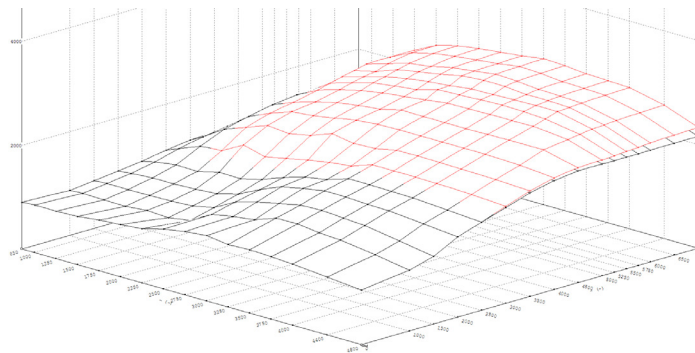
Remapping or reflashing remains one of the most popular ways of increasing the performance of a turbocharged car. However, at Mosselman Turbo Systems we don't just carelessly remap every car we get our hands on. Before we add an ECU Remap to our line-up, we make sure it's tested thoroughly. After all, we want to deliver a noticeable increase in performance without putting your engine at risk.

Exclusively for BMW and MINI

Developing the best possible ECU Remap for a car requires time and intimate knowledge of the vehicle you're tuning. In order to provide high quality ECU Remaps and nothing else, our mappings are developed exclusively for BMW and MINI cars.

No flat spots

Our software is engineered to create a smooth power delivery that keeps going till the redline. Stage 2 and stage 3 Mosselman Turbo mappings are designed to get the most out of our MSL Performance upgrades (also featured in this brochure).



Meet the Oracle

Any tuner that's worth his salt needs an accurate rolling road. That's why the Mosselman Turbo Systems facility is equipped with a Superflow 880 dynamometer. This is a state-of-the-art 4WD chassis dyno that can handle a whopping 1500hp. Around the facility, it has earned the nickname 'The Oracle' (on account of its brutal honesty).

However, honesty is a good thing when you're developing top of the line performance parts that need to deliver what they promise. The Superflow is coupled with a sophisticated data acquisition system that provides us with real-time information on boost, temperatures, torque, horsepower and other useful parameters.



For BMW and Mini engines, Mosselman Turbo Systems has created the iTronic Engine Controller. As far as intelligent engine control units go, this is the benchmark. Depending on your engine type, Stage 1 will add around 35 to 75 horsepower to your car's stock performance and it will do so safely. Best of all, it's designed to work with your existing motor management system.

The iTronic requires no reflashing, no wire-cutting, no soldering, no alterations of any kind. It's 100% plug and play.

The iTronic is also equipped with a powerful dual core processor and protected by a carefully machined aluminium housing. Add to that the ability to receive new features and settings through software updates and you have an engine control unit that will last you a lifetime.

Plug in Power!



What does our dyno say?

Measured results on our dynamometer

	Stock hp	iTronic hp	Stock Nm	iTronic Nm
BMW 118i	136 hp	173 hp	220 Nm	323 Nm
BMW X5 30d	258 hp	300,5 hp	560 Nm	665 Nm
BMW M550i G30	462 hp	533,5 hp	650 Nm	801 Nm

The next level of intelligent engine control



Future proof

Compatible with latest and future BMW and Mini engines.

Blistering performance

Stage 1 increases output around 35 to 75 horsepower.*

*depending on engine type.

Plug and play

Easy installation and leave-no-trace removal.

Rock solid housing

The iTRONIC is built to last.

Steering wheel control

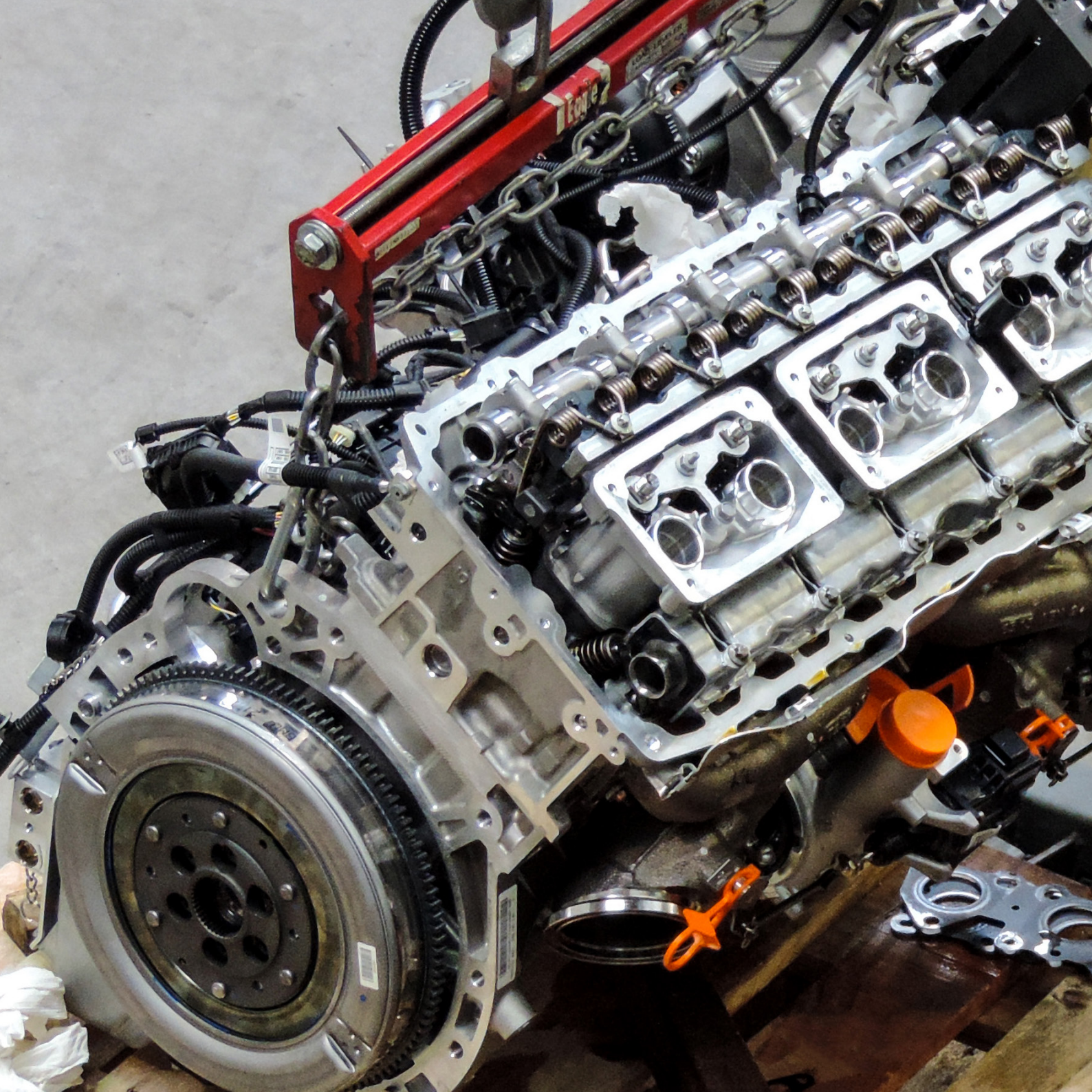
Control the iTRONIC with the steering wheel buttons.

Optional features for the iTRONIC:

- Exhaust valve control regardless of BMW performance setting
- Deactivate start/stop system
- Needle swipe upon startup
- Optional boost gauge next to odometer

Stage 2 options:

- Catless downpipe
- Water/Methanol injection



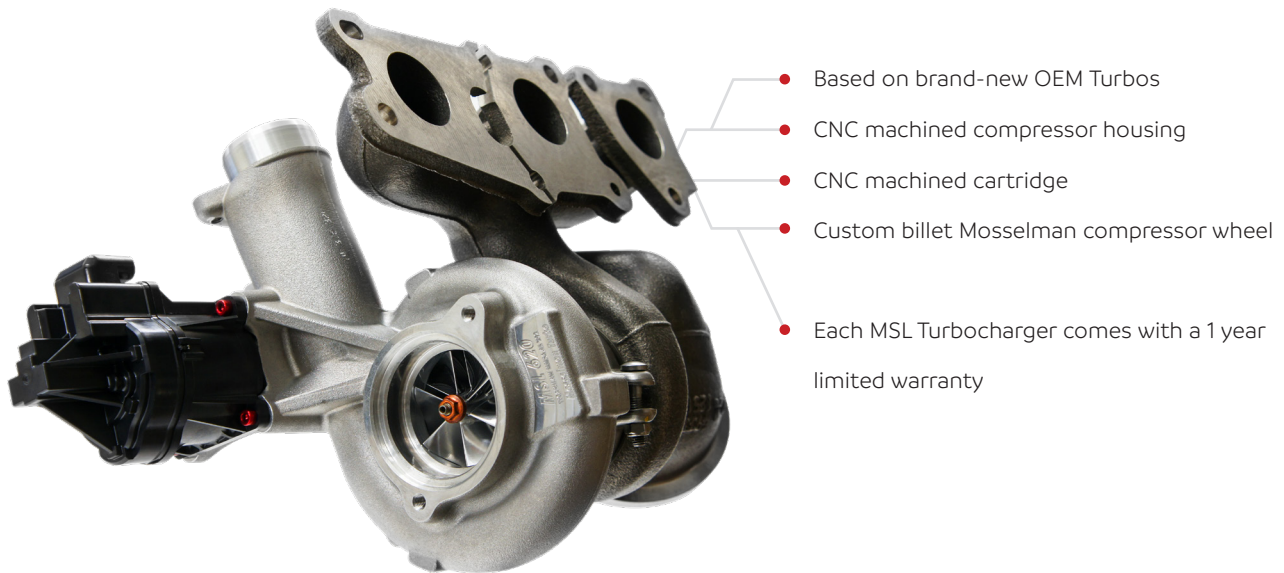


MSL Turbos

Looking for that next step in performance? Our MSL Turbochargers offer a huge boost in performance. By increasing the airflow and reducing backpressure, these turbos increase performance levels significantly without sacrificing reliability. To ensure maximum compatibility, they're based on OEM quality turbos, but with several components of our own design to ensure the highest quality and reliability.

Plug and play

Thanks to their OEM origins, the MSL Turbochargers are easy to install and require no additional modification. Of course, they work beautifully with our ECU Remaps, iTronic Engine Controllers and the other high performance parts in our line-up. Each MSL Turbocharger is manufactured according to Poka Yoke and ISO standards on the in-house production line. They are subjected to rigorous quality control and VSR reports and come with a limited 1 year warranty.



Manufactured in-house

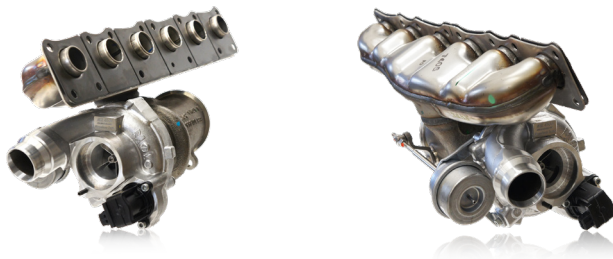
Each Mosselman Turbo upgrade is carefully designed and manufactured at the Mosselman Turbo Systems facility in the Netherlands.

Low-lag, high-boost

MSL Turbochargers feature fast spool-up combined with high flow-rates to guarantee a low amount of lag and a wide power band.

Plug and play installation

Our turbos are designed for plug and play installation. Any automotive mechanic should be able to replace a stock turbo with one of our high-end units.



AVAILABLE ENGINES

MSL35-45 N20

Hybrid-turbocharger for the BMW N20 engine.



MSL50-65 N54

Hybrid-turbocharger for the BMW N54 engine.



MSL42-54 N55

Hybrid-turbocharger for the BMW N55 engine.



MSL62-75 S55

Hybrid-turbocharger for the BMW M3/M4 S55 engine.



MSL48-55 M50d N57

Hybrid-turbocharger for the BMW M50d N57 engine.





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MICHELIN

MICHELIN

BC07



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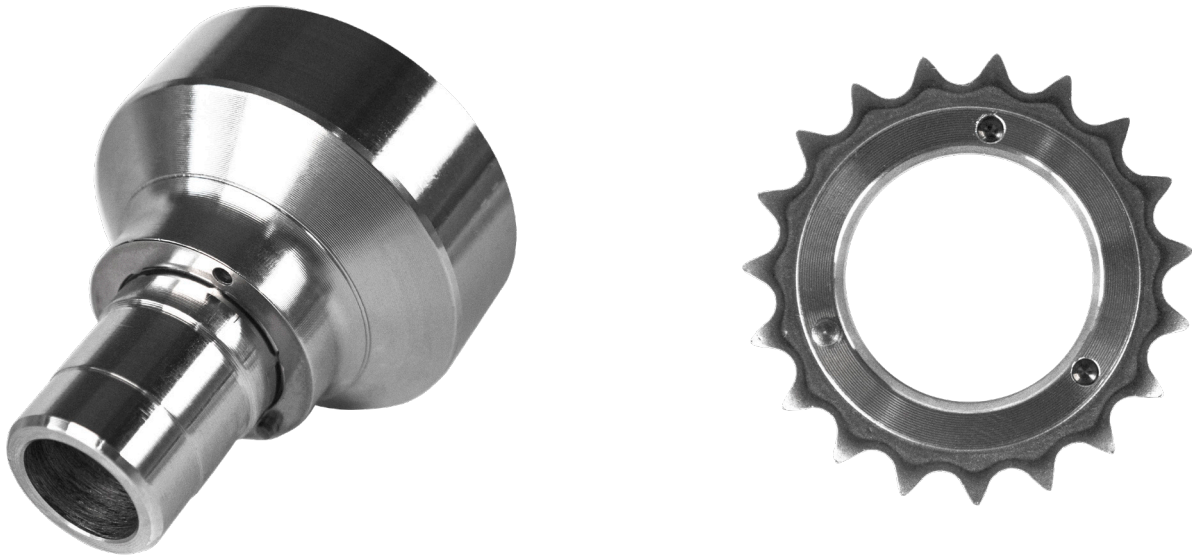
EST. 1976
M3

MSL Crank hub

In the BMW S55 engine, camshafts are connected to the crankshaft via a camshaft chain. This chain, in turn, is connected to a sprocket that's mounted on the crank hub. In stock form, this sprocket is not fixed on the crank hub, putting tuned engines at considerable risk of failure. If the sprocket shifts out of alignment due to increased power, so does the engine's timing.

The fix: Mosselman Crank Hub Modification

Mosselman has developed a modification that fixes the sprocket securely to the crank hub using 3 lock pins. This dramatically reduces the risk of the cam timing shifting out of alignment.



 **Better-than-stock**

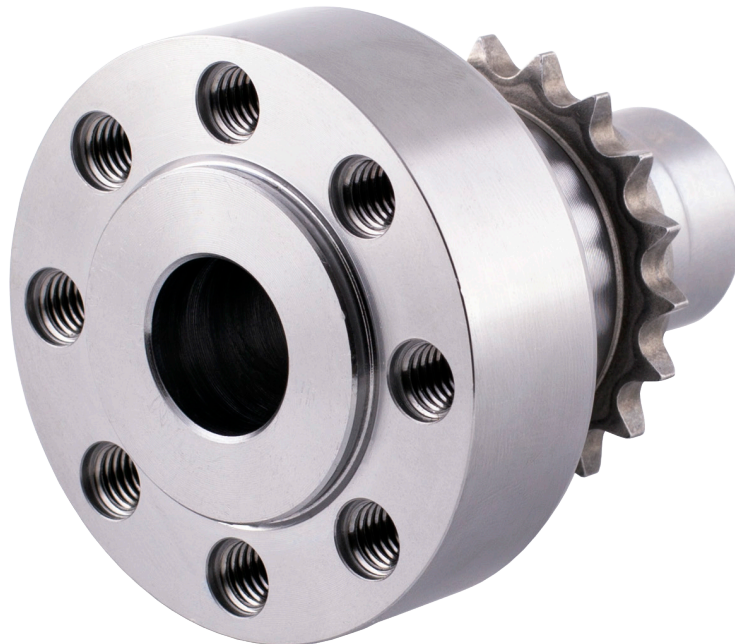
The Mosselman crank hub modification offers a vast improvement in terms of engine safety.

 **Recommended for Stage 3 tuning**

We recommend the crank hub modification for heavily tuned engines that put increased levels of strain on the crank hub and sprocket.

 **Precision engineering**

This modification is designed and built with the highest precision.







MSL Oil Thermostat

The MSL Oil Thermostat is a highly recommended upgrade for N54, N55 and S55 engines, especially when they're tuned. Instead of opening at 105°C, the MSL Oil Thermostat opens at 85°C which results in a operational oil temperature 20°C lower than OEM. The MSL Oil Thermostat allows the engine to reach operating temperature in the same time as a stock thermostat. Exact temperatures can differ slightly depending on engine type.

Lasting quality

The MSL Oil Thermostat is beautifully designed and made out of a solid block of high-grade aluminium at our own facility. The thermostat is an important part of the complete MSL Oil Cooler Kit for the E-series, but can also be combined with the standard oil cooler on F-series N55 and S55 engines.

Rock solid housing

CNC machined housing.

Essential for tuners

Keeps your engine cool and safe.

20°C lower than stock

Operating temperature 20°C lower than stock.

Quick install

Takes only 30 minutes to install.

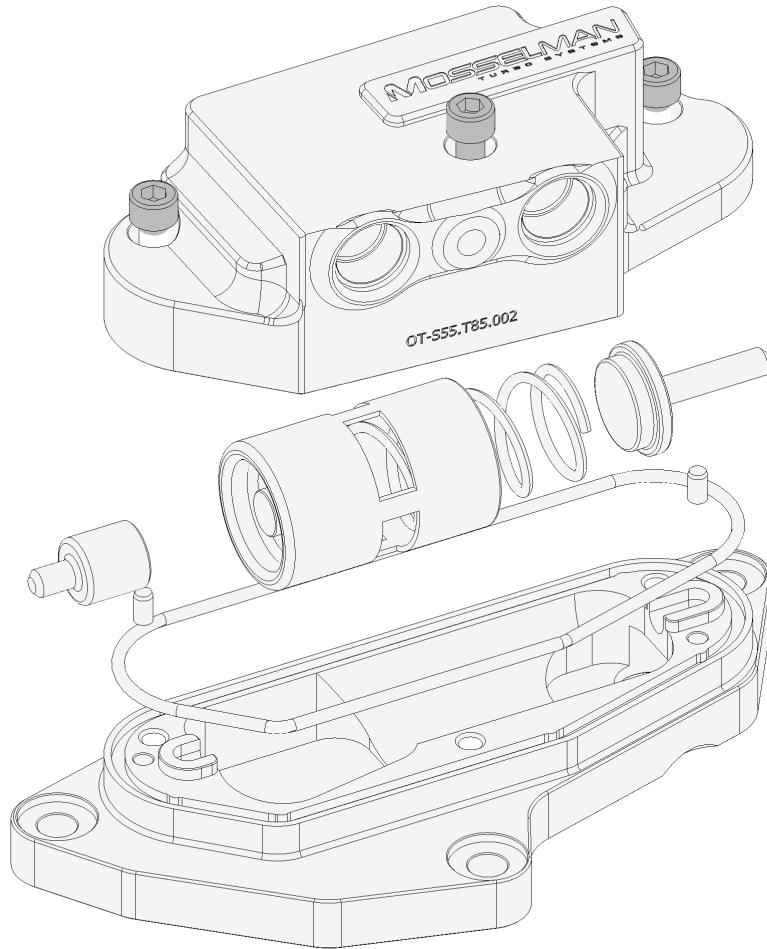
Real thermostat

Equipped with a real thermostat, not an always open solution. *

*(for use in hot and cold climates)



The next level of temperature control



N54

Available for the BMW N54 engine.



N55

Available for the BMW N55 engine.



S55

Available for the BMW M3/M4 S55 engines.



AVAILABLE ENGINES

MSL Oil Cooler Kit

The E-series N54 and N55 engines are no strangers to oil cooling problems. That's why we have included the MSL Oil Thermostat in the Oil Cooler Kit. Along with the higher capacity oil coolers, the improved thermostat ensures that E-series models equipped with N54 and N55 engines stay cool, even during heated conditions.

Lower operating temperatures

As mentioned in the 'MSL Oil Thermostat' section, the exact temperatures differ slightly depending on engine type, but use of the MSL Oil Cooler kit and Thermostat will result in an operating temperature of around 20°C lower than stock, whatever you're doing.

What's in the kit?

The MSL Oil Cooler Kits are available as single or twin cooler kits. The single cooler kit replaces the OEM cooler on the right side of the car. Like all of our products, the kit is plug and play and comes with the MSL Oil Thermostat, a Setrab 19 row oil cooler, a stainless MSL bracket and a Goodridge hose kit.



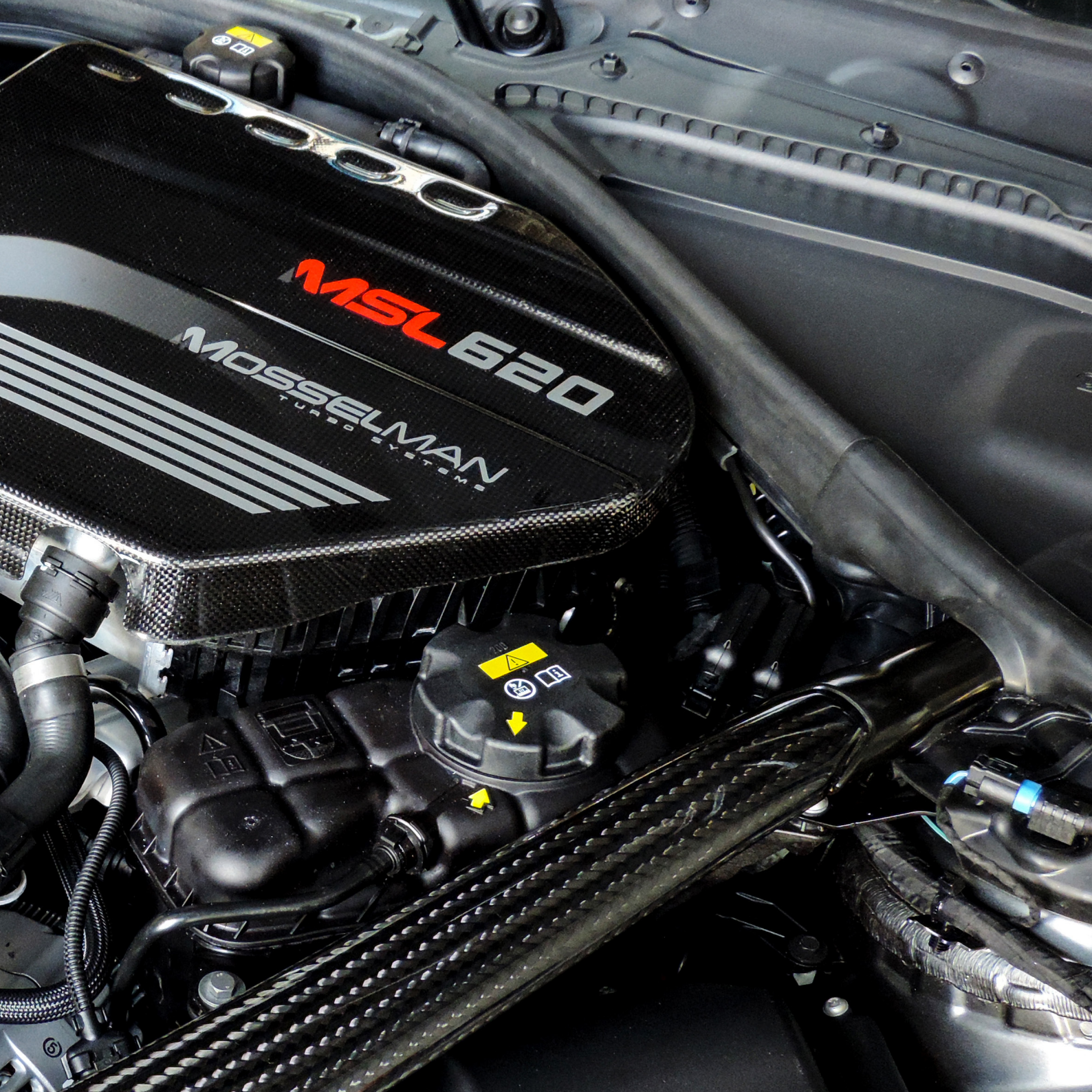
The next level of temperature control





M Power





MSL 620
MOSSELMAN
TURBO SYSTEM



Disclaimer

Your safety is our number one priority. Please drive your car responsibly, safely and always obey local traffic rules.

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General Note

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