

DINAN E39 M5

2000-2003



Performance Without Sacrifice

DINAN SIGNATURE SERIES PACKAGES



4 Year / 50,000 Mile Warranty

Contact a Dinan Representative or visit dinancars.com for information on the most extensive line of M5 performance products available, all backed by the only guarantee that matches the new car warranty coverage up to 4 years or 50,000 miles.

"...Dinan builds cars by examining each area of performance, applying sound engineering principles and executing them with a precision found only at the world's finest tuners. Then as now, I'm in awe."

- european car

Inspired by 29 years of BMW performance tuning and racing experience, the Dinan Signature Series features carefully engineered, balanced high performance solutions for the M5 driver, backed by the only guarantee that matches the new car warranty coverage for up to 4 years/50,000 miles. The enhanced performance can be enjoyed without compromising warranty coverage or the reliability you expect from a BMW automobile.

Each Dinan Signature Series M5 is adorned with the handsome Dinan deck lid badge, as well as a serial numbered plaque, verifying authenticity and making the cars that much more exclusive. As a final touch, Dinan aluminum pedal pads are included, adding a subtle performance look to the interior.

"...a thoughtfully engineered package that feels as though it could have come from the factory." *-Car and Driver*

Dinan S-M5 402 hp @ 6500 rpm / 375 lb-ft torque @ 4500 rpm

Includes: Stage 2 Engine Software; High Flow Cold Air Intake; Free Flow Exhaust; Front Strut Tower Brace; Dinan Pedal Pad Set; Dinan Deck Lid Badge; Serial Numbered Dinan S Plaque

Dinan S1-M5 402 hp @ 6500 rpm / 375 lb-ft torque @ 4500 rpm

Includes: Stage 2 Engine Software; High Flow Cold Air Intake; Free Flow Exhaust; Front Strut Tower Brace; Rear Shock Tower Brace; Stage 1 Suspension System-Koni (Dinan Mono-Tube shocks available as an option); Dinan Pedal Pad Set; Serial Numbered S1 Plaque; Dinan Deck Lid Badge



Dinan S2-M5 481 hp @ 6900 rpm / 419 lb-ft torque @ 5000 rpm

"Dinan's car is a rocket ...and we did not find a downside or any quirky behavior, with the increased performance."

-Car and Driver

Includes: Stage 6 Engine Software; High Flow Cold Air Intake; High Flow Air Mass Meters; High Flow Throttle Bodies & Velocity Stacks; Header System; Free Flow Exhaust; Performance Cam Shafts; Strut and Shock Tower Braces; Stage 2 Suspension System-Koni (Dinan Mono-Tube shocks available as an option); 3.45 Limited Slip Differential; Dinan Pedal Pad Set; Serial Numbered S2 Plaque; Dinan Deck Lid Badge

Dinan S3-M5 621 hp @ 7000 rpm / 502 lb-ft torque @ 4500 rpm

"The bottom line is how drivable the S3 is. When you get in and start it up, there's no indication of the beast you've awakened."

-european car

Includes: S3-M5 Supercharger System; S3 Engine Management Software and Electronics; High Flow-Ram Air Intake; High Flow Throttle Bodies and Tuned Velocity Stacks; 4:2:1 Stainless Steel Headers; Free Flow Exhaust; Strut and Shock Tower Braces; Stage 3 Suspension System-Koni (Dinan Mono-Tube shocks available as an option); Rear Subframe Reinforcement; Dinan/Brembo Brake Conversion; Dinan Lightweight Forged Wheels: Front 18 x 9" (275/35-18 Tires Sold Separately); Rear: 18 x 9.5" (285/35-18 Tires Sold Separately); S3-M5 Clutch Package (including Flywheel, Disc/Pressure Plate and Slave Cylinder); 3.45 Limited Slip Differential; Dinan Pedal Pad Set; Serial Numbered S3-M5 Factory Works Plaque; Dinan Deck Lid Badge

Signature Package Components available separately.

ENGINE PERFORMANCE

Performance Engine Software

2 badge points

Dinan recalibrates the M5 engine management system for improved power output and drivability. Safely raises the factory rev-limit by 250 rpm and removes the top speed governor. Throttle response is more immediate in both the standard and sport modes. Different stages of Dinan software are available in order to optimize performance and drivability from specific combinations of Dinan engine enhancements. **+5 hp / +5 lb-ft torque**

High Flow Cold Air Intake System

3 badge points

Ensures that the powerful M5 engine is breathing plenty of cool, oxygen rich air for maximum performance under varying driving conditions. Replaces the factory air-boxes with twin high flow air filters feeding large diameter intake plumbing, carefully designed to minimize air turbulence for optimum intake air-flow. The filters are relocated outside of the engine compartment, insulating the intake from under-hood heat. Additional heat shields are incorporated to block the flow of power-robbing hot air passing over the radiator. The system also includes modified fog light trim rings in order to take advantage of the ram air effect at speed. The stock air temperature sensor location within the Air Mass Meter feeds the engine management system with an artificially high reading, resulting in reduced power output. An air temperature sensor relocation kit is included, providing a more accurate reading for consistent performance. Dinan Stage 2 Engine Software is highly recommended, ensuring optimum power and drivability.

+5 hp @ 7000 rpm / +4 lb-ft torque @ 7000 rpm



Free Flow Rear Mufflers

3 badge points



Increases power output without the excessive noise and "boominess" associated with typical aftermarket exhausts. Manufactured from 20 gauge-304 stainless steel, featuring Dinan's Tuned Resonance Chamber Technology for the optimum balance between maximum power gains and a sporty exhaust note. At just 37.6 lbs., weight is reduced by nearly 29 lbs. Dual 3" diameter polished stainless tips give the cars a tasteful performance look as well.

+6 hp @ 6500 rpm / +5 lb-ft torque @ 6500 rpm

*"The exhaust system delightfully burbles at idle and emits a satisfying rasp at full throttle, but it settles into a subdued hum when cruising."
-Car and Driver*

High Flow Air Mass Meter Housings

2 badge points

Larger housings compliment the intake system by further improving the engine's ability to breathe. A larger internal diameter enables air to flow more freely to the intake plenum for increased power. Stage 3 Engine Software optimizes power gains and drivability.

+6 hp @ 7000 rpm / +5 lb-ft torque @ 7000 rpm



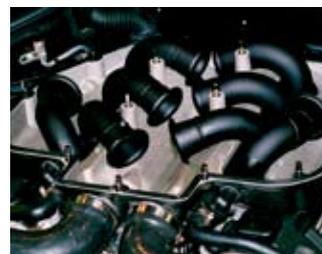
Exhaust Header System

3 badge points

4:2:1 anti-reversion headers produce significant power gains, featuring CNC machined flanges, the finest materials and state of the art welding techniques. Matching Stage 4 Engine Software ensures maximum power output.

+28 hp @ 5500 rpm / +29 lb-ft torque @ 4500 rpm

"Perhaps the most gorgeous set of headers ever to grace a BMW" -european car



High Flow Throttle Bodies & Tuned Velocity Stacks

2 badge points

Stock throttle bodies are bored to a larger internal diameter, further improving airflow for increased power and crisp throttle response. Stock velocity stacks are replaced with spun aluminum units, shaped and sized for maximum power gains. Stage 5 Engine Software optimizes power output and drivability.

+39 hp @ 6900 rpm / +30 lb-ft torque @ 7000 rpm

High Performance Cams

2 badge points

Performance cams are available for use with the S2 engine components, adding 11 horsepower at 7000 rpm. Stage 6 Engine Software re-calibrates the engine management system specifically for the cams, maximizing power output.

+11 hp @ 7000 rpm



Supercharger System

10 badge points

Producing an incredible 621 horsepower and 502 lb-ft torque, the supercharged M5 is one of the most shining examples to date of what makes a Dinan BMW so much more than typical "tuner cars", sure to exceed even the wildest expectations for performance, drivability and durability.

For maximum output, the high flow throttle bodies, header system and free flow mufflers have been incorporated into the system. Structural enhancements are included enabling the driver to take full advantage of the enormous power by addressing the stresses 502 lb-ft torque place on the vehicle's drive train and chassis. A high-torque capacity clutch is included as well. As you would expect for a car producing this kind of power, a Dinan suspension, larger wheels with sticky tires, as well as the big brake conversion are highly recommended. The supercharger system is backed by a 12 month/12,000 mile warranty (whichever occurs first).

*"It's literally like Nirvana... it gives you everything you need. There is always more power, more acceleration and endless thrill."
-european car*

High Performance S62 Engine

A cost effective, high performance solution for those facing an engine replacement or rebuild. Employing technology that has made Dinan's Grand-Am Daytona Prototype version of the S62 engine both competitive and reliable ensures optimum performance along with race-proven durability. The enhanced S62 engines are balanced and blue-printed, featuring lightweight, low friction pistons and performance cams. Producing 415 horsepower, output can be increased to 490 hp with the addition of the Dinan intake, exhaust, headers and throttle bodies (S2 engine components). Backed by a 2 year, unlimited mileage warranty.

SUSPENSION AND CHASSIS

Strut and Shock Tower Braces



Strut and Shock Tower Braces maintain the structural integrity of the towers over the life of the vehicle as well as providing sharper steering response by reducing flex under harder cornering conditions. The attractive brushed aluminum and carbon fiber braces may be installed in conjunction with any of the Dinan Suspension Systems or the stock components.

Front: 2 badge points / Rear: 1 badge point

Dinan 18" Lightweight Forged Wheels

Dinan's 18 x 9.5" rear and 18 x 9" front spread-forged wheels are the lightest and strongest available, weighing a mere 18 lbs. each. Every surface is machined, eliminating unnecessary material for a dramatic reduction of un-sprung weight, improving handling, acceleration, braking and even ride quality. The wheels accommodate huge 285/35-18 and 275/35-18 tires, improving overall grip as well as dramatically reducing under steer.

5 badge points / set



Mono-Ball Lower Control Arm Bearings



Dinan's robust mono ball lower control arm bearings address the excessive deflection associated with the stock bushings which negatively affects steering response as well as exacerbating the effects of brake shimmy. Ride quality is also improved as the mono ball bearings are actually more compliant. Featuring racing quality spherical bearings in precision machined aluminum housings, the bearings are substantially larger than competing products for greater load handling capabilities and durability. A special Teflon lining ensures quiet operation, providing the benefits of greatly reduced deflection without the annoying clanking that is common among lesser quality products.

1 badge point

Suspension Systems

5 badge points

Dinan offers the grip that enthusiasts demand for handling that is precise and predictable while at the same time maintaining an almost surprising level of ride comfort and civility. Dinan offers three complete suspension systems for the M5, each providing increasing levels of performance handling that will exceed even the most aggressive driver's expectations. Koni rebound adjustable shocks and struts are employed in each system. Proprietary Dinan mono-tube racing type shocks are available as an option with each suspension system.

"...the most remarkable handling mid-size sport sedan this writer has ever driven ...like the world's biggest formula car.."

-european car



Stage 1

Comprised of carefully matched performance springs and custom-tuned Koni struts and shocks (Dinan mono-tube shocks available as an option at additional cost), the system reduces the pitch and roll associated with the stock suspension for faster and more predictable cornering capabilities. The lower ride height gives the M5 an even more aggressive stance, as well as improving suspension geometry.

Stage 2

Adds a larger 28mm front and 17mm adjustable rear anti-roll bar to the Stage 1 springs and shocks, further reducing body roll for increased grip and reduction of under steer.

Stage 3

Adds front Camber Plates to the Stage 2 springs, shocks and anti-roll bars. Camber Plates dramatically reduce under steer or the car's tendency to "plow" the front end, providing a more neutral balance and razor sharp turn-in.



Dinan Performance Brakes by Brembo

3 badge points

Dinan and Brembo offer ultimate stopping power for the M5 while maintaining the quiet operation, pedal feel and wear indicator systems that are appropriate for street applications. Featuring massive 4-piston aluminum calipers (black or red) and two-piece slotted or drilled rotors measuring 355mm in the front and 345mm at the rear (stock rotors: 345mm front / 328mm rear). Goodridge stainless steel brake lines are included, further improving pedal feel.

DRIVELINE & ACCESSORIES

3.45 Limited Slip Differential

Lowers the stock 3.15 final drive ratio to 3.45 for a 9.5% increase in torque delivered to the road. The result is dramatically improved acceleration in every gear, with only a minor increase in engine speeds at cruise and no effective reduction in top speed potential.

2 badge points



Lightened Flywheel

Dinan lightens the stock dual-mass flywheels for a 40% reduction of rotational mass providing faster engine revs and acceleration, as well as improved throttle response. The enhanced performance is provided without compromising the durability and smooth engagement of the stock clutch and there's no annoying noises to contend with as with typical lightweight flywheels.

2 badge points

Short Shift Kit

Reduces the amount of throw necessary to shift gears for a sportier feel. The nylon pivot ball and shifter bushing are retained, providing the same smooth and quiet operation as the original shifter. Other short shifters employ metal components that tend to be noisy and induce a notchy feel. The short-shifters are rubber isolated for factory-like, vibration free operation. Reduces throw by 17% and lowers the shift knob by 1/2".

1 badge point

Dinan Pedal Pads

Stylish spun aluminum pedal pads with anti-slip rubber inserts feature the Dinan logo, adding a great high performance look to the interior of your M5. Available for manual and automatic applications.

1 badge point



The Dinan Badge

The Dinan badge cannot be purchased but rather is provided at no charge when your Dinan performance selections total 10 points, making your Dinan enhanced BMW M5 as exclusive as it is exciting to drive.

Signature Floor Mats

Floor-mat sets feature the Dinan logo and are available in colors to match your BMW carpet.



DINAN

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