

**DINAN E63/64 6 Series**

**2004-2008**



***Performance Without Sacrifice***

# DINAN SIGNATURE SERIES PACKAGES



## 4 Year / 50,000 Mile Warranty

Contact a Dinan Representative or visit [dinancars.com](http://dinancars.com) for information on the most extensive line of 6 Series performance products available, all backed by the only guarantee that matches the new car warranty coverage up to 4 years or 50,000 miles.

*"Performance without the compromise to drivability or the refinement expected by a BMW owner. This is a Dinan Hallmark."*

*European Car*

## Dinan S-645 and 650

Includes: Stage 2 Engine Software; High Flow Air Intake; Free Flow Exhaust; Front Strut Tower Brace; Dinan Pedal Pads; Dinan Deck-Lid Badge and Serial Numbered Dinan S Plaque.

Dinan S-645: 349 hp @ 6500 rpm / 343 lb-ft torque @ 4000 rpm

Dinan S-650: 385 hp @ 6500 rpm / 374 lb-ft torque @ 4000 rpm

## Dinan S1-645 and 650

Includes: Stage 3 Engine Software; High Flow Air Intake; Free Flow Exhaust; High Flow Throttle Body; Front Strut Tower Brace; Rear Shock Tower Brace; Stage 1 Suspension; Dinan Pedal Pads; Dinan Deck-Lid Badge and Serial Numbered Dinan S1 Plaque.

Dinan S1- 645: 354 hp @ 6500 rpm / 346 lb-ft torque @ 4000 rpm

Dinan S1- 650: 390 hp @ 6500 rpm / 374 lb-ft torque @ 4000 rpm



## Dinan S2-645 and 650 (Manual or SMG Transmissions)

Includes: Stage 3 Engine Software; High Flow Air Intake; Free Flow Exhaust; High Flow Throttle Body; Front Strut Tower Brace; Rear Shock Tower Brace; Stage 2 Suspension; Lightweight Flywheel, 3.45 Differential; Dinan Pedal Pads; Dinan Deck-Lid Badge and Serial Numbered Dinan S2 Plaque.

Dinan S2- 645: 354 hp @ 6500 rpm / 346 lb-ft torque @ 4000 rpm

Dinan S2- 650: 390 hp @ 6500 rpm / 374 lb-ft torque @ 4000 rpm

*Components available separately.*



# ENGINE PERFORMANCE

## Performance Engine Software

2 badge points

Dinan Performance Engine Software extracts additional power as well as speeding up throttle response. The software safely raises the rev-limiter by 250 rpm, enabling you to carry more road speed in each gear as well as optimize shift points for maximum acceleration. The top speed governor is removed, enabling the cars to reach their natural top speed. Additional stages of Dinan Engine Software are available, calibrated for use with specific combinations of the other Dinan engine products in order to ensure optimum performance, reliability and drivability.

645: +8 hp @ 6600 rpm / +6 lb-ft torque @ 6600 rpm

650: +8 hp @ 6500 rpm / +6 lb-ft torque @ 6500 rpm

*\*Dyno results when tested in conjunction with a K&N free flow air filter.*



## High Flow Air Intake System

3 badge points

The performance intake systems take full advantage of the ram-air effect by adding a second inlet that force-feeds more cool, oxygen rich air to the engines. The systems feature an enhanced replacement air box and cover that increase total volume as well as accommodate the additional air inlet and larger high flow filter element. The air box and cover are manufactured from injection-molded plastic, providing the most effective insulation against power robbing under-hood heat. The sealed design pressurizes the intake system for maximum power gains and further reduction of intake air temperatures. Air from the added inlet is channeled through a carbon fiber duct, offering a tasteful high performance look

under the hood. The 650 system also includes a replacement air mass meter housing and adaptor. Matching Stage 2 Engine Software is highly recommended for optimum performance and drivability.

645: +17 hp @ 6500 rpm / +14 lb-ft torque @ 6500 rpm

650: +18 hp @ 6500 rpm / +15 lb-ft torque @ 6500 rpm



## Free Flow Exhaust

3 badge points

Reduced weight, 100% 304-stainless steel construction, a great sporty exhaust note and superior flow make for the best performing 6 Series mufflers on the market. Larger polished stainless steel tips give the cars a tasteful high performance look unlike any other. Careful attention to detail ensures a perfect fit using the factory hangers.

645: +6 hp @ 6600 rpm / +5 lb-ft torque @ 6600 rpm

650: +6 hp @ 6500 rpm / +5 lb-ft torque @ 6500 rpm



## High Flow Throttle Body

2 badge points

Dinan carefully bores the stock throttle body, increasing the internal diameter for greater air-flow area. The larger bore further improves air-flow for increased power output and more immediate throttle response. Matching Stage 3 Engine Software is recommended for optimum performance and drivability.

645: +5 hp @ 6500 rpm / +4 lb-ft torque @ 5500 rpm

650: +4 hp @ 6500 rpm / +3 lb-ft torque @ 6100 rpm

# SUSPENSION AND CHASSIS

## Carbon Fiber Front Strut Tower Brace

2 badge points

Dinan's strong yet incredibly lightweight carbon fiber front strut tower brace effectively enhances chassis rigidity for improved handling and sharper steering response. Forged aluminum ends ensure maximum strength and bolt directly to the stock locations for a clean and simple installation. May be installed with any Dinan suspension system or the stock components.



## Carbon Fiber Rear Shock Tower Brace - Coupe

1 badge point

The matching carbon fiber shock tower brace provides increased chassis rigidity at the rear of the cars, further improving the 6 Series' handling capabilities. Made from the same tubular carbon fiber as the front brace with forged aluminum ends for maximum strength.

## 19" Lightweight Forged Wheels

5 badge points – set of four

Dinan 19x9" front and 19x10" rear wheels accommodate the largest tires possible, 285/35-19 in the rear and 265/35-19s up front, dramatically increasing overall grip as well as reducing under steer for razor sharp turn-in. At just 20 lbs. each, they are the lightest 19" wheels to be found, improving handling, braking and even ride quality, improving handling, braking and even ride quality.



## Suspension Systems

5 badge points

Dinan suspension systems offer the grip that enthusiasts demand while maintaining a comfortable, well-dampened ride. Comprised of fully matched proprietary springs designed to work in conjunction with the stock struts/shocks, Dinan's unique front and rear Roll Control Systems and camber plates, the systems provide comprehensive, pre-tuned suspension solutions that take the guesswork out of superior handling from the 6 Series without compromising civilized ride quality.

**Stage 1 Suspension: Performance Spring Set, Matching Bump Stops.**

**Stage 2 Suspension: Adds front and rear Roll Control Systems to Stage 1 components for cars equipped with "Dynamic Drive", providing greater control over body roll while retaining the stock antiroll bars and self adjusting feature. The rear Roll Control System also provides adjustability for a closer to neutral balance.**

**Stage 3 Suspension: Adds Front Camber Plates to the Stage 2 components, inducing 1/2 degree additional negative camber for greater grip in the turns, reducing understeer and providing razor sharp turn-in. Camber plates may be installed with the Stage 1 System for cars that are not equipped with the "Dynamic Drive" self adjusting antiroll bars.**



## Mono Ball Lower Control Arm Bearings

1 badge point

Mono Ball lower control arm bearings address the excessive deflection associated with the stock bushings that negatively affect steering response as well as exacerbating the effects of brake shimmy, which can be particularly noticeable when larger brakes are installed. 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. The Dinan mono ball kit provides the benefits of greatly reduced deflection without the annoying clanking that is common among lesser quality products.



## Dinan Performance Brakes by Brembo

3 badge points

Dinan and Brembo, the world leader in high performance brake systems, offer ultimate stopping power while maintaining the quiet operation, pedal feel and wear indicator systems that are appropriate for street applications. For the 6 Series, the front brakes feature impressive 6-piston aluminum calipers with 380mm two-piece rotors (stock rotors: 348mm). The rear brakes feature 4-piston calipers as well with 345mm two-piece rotors. The systems also include Goodridge stainless steel brake lines. Kits are available for all four wheels or the front only in your choice of black or red calipers and slotted or drilled rotors.



## DRIVELINE



### Lightweight Flywheel (Manual and SMG Transmissions) 2 badge points

Lightened dual-mass flywheel improves driveline efficiency for faster acceleration and more immediate throttle response. The flywheel has been relieved of 7 lbs. for an 18% reduction in weight and a 40% reduction in rotational inertia. SMG equipped cars receive the added benefit of a reduction in shifting time, providing smoother gear changes in both the manual and "automatic" modes.



### 3.45 Differential (Manual and SMG Transmissions) 2 badge points

Lowers the stock 2.93 final drive ratio for a substantial 17.7% increase in torque delivered to the wheels. Provides faster acceleration in every gear with only a minor increase in engine speed at cruise.

## ACCESSORIES



### Dinan Pedal Pads

1 badge point

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 6 Series. Available for manual and automatic applications.

### Signature Floor Mats

Signature floor-mat sets featuring an embroidered Dinan logo are available for the 6 Series in your choice of carpet and logo colors.



### 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 as exclusive as it is exciting to drive.



## Dinan Engineering, North America's BMW Tuner

Founded in 1979, Dinan is well established as North America's premiere BMW tuner. Dinan develops and manufactures the most comprehensive line of BMW high performance products and systems for the street as well as the track, most recently powering Daytona Prototypes to victory in the Grand American Road Racing Series.

Dinan's products are distributed through a substantial network of Authorized Dinan BMW dealerships throughout the US and Canada. Dinan's industry leading warranty program, quality products and solid engineering have helped to make Dinan a household word among BMW driving enthusiasts. Road tests conducted by major automotive enthusiast publications over the last 29 years place Dinan enhanced BMWs on a performance level with some of the most exotic sports cars in the world. At the same time, Dinan BMWs are widely renowned for being civilized and reliable, providing a high performance BMW-like driving experience without equal.

Dinan's comprehensive warranty program, introduced in 1998 with the cooperation of BMW of North America, provides BMW owners with matching coverage to that offered by BMW's new car warranty, ensuring that Dinan performance enhancements and the BMW they have been installed in are

covered for up to 4 years or 50,000 miles. BMW automobiles can be performance-tuned without the associated concern of negatively affecting the new car warranty coverage.

As a serious BMW Tuner, Dinan's objective is to offer complete performance solutions for the entire range of BMW models. From faster acceleration to improved cornering capabilities and stopping power, Dinan takes the guess-work out of creating the high performance BMW of the enthusiasts dreams with complete, balanced performance systems. A choice of several complete Signature Series programs are available for each BMW model in order to meet a broad range of performance requirements and budgets. In addition to stunning performance, you will also enjoy the exclusivity of owning a serial numbered Dinan Signature BMW, registered with both BMW and Dinan.

Dinan offers the means to make your BMW driving experience even more exciting, without sacrificing warranty coverage or the civility you expect from a BMW automobile. Your Authorized Dinan BMW dealership is fully prepared to help you begin driving the high performance BMW of your dreams today.



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