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## THE 2005 MINI CONVERTIBLES

The MINI Cooper Convertible and MINI Cooper S Convertible  
bring the fun of open top motoring to the MINI brand

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## **OVERVIEW**

### **The MINI Cooper Convertible & MINI Cooper S Convertible: Genuine MINI**

Since MINI debuted in the U.S. market in 2002, not only has it been producing and selling cars at a rate far exceeding early estimates, but MINI is now introducing its second body style in the form of the MINI Cooper Convertible and the MINI Cooper S Convertible. These two new models further expand the product range and MINI's presence in the marketplace as an established brand with a growing portfolio of products.

The MINI Cooper Convertible and MINI Cooper S Convertible are authentic four-passenger convertibles, engineered from the ground up to be fun-to-drive cars while offering a high level of safety and practicality. The design of the MINI Convertible does not compromise appearance, functionality and engineering, and remains honest to the MINI concept of go-kart-like performance and a truly recognizable "MINI" appearance from every angle.

### **Cool Convertible Concept**

Following Alec Issigonis's concept that he used as his blueprint for the first generation Mini in 1959, the MINI Convertible utilizes its compact exterior dimensions while making optimum use of its surprisingly spacious four-passenger interior. And the stiff body/chassis package, combined with its sport tuned suspension, gives the MINI Convertible superior handling and agility.

The MINI Convertible is packed with sophisticated technology that reinforces MINI's premium positioning within its market segment, most notably the fully automatic roof with a truly unique integrated sliding sunroof function and the expandable easy loading system to maximize accessibility to the rear cargo area. Other technology includes multi-arm rear suspension, runflat tires with a tire monitoring system and an available navigation system. As a global product, the major markets for the MINI Convertible are primarily the United States, England and Germany followed by other Western European and Asian countries.

## **The MINI Convertible Roof – Two Ways To Enjoy Open Motoring**

The MINI Convertible comes on the scene with a unique offering in the convertible market – a fully automatic convertible roof with a power sunroof integrated into the top.

The sliding sunroof on the MINI Convertible is designed with a rigid panel under the first section of the canvas. When the top button is first pressed, the section slides back along the top rails to create an opening overhead of 15 3/4 inches. The sliding sunroof can be operated while the vehicle is in motion up to speeds of 75 mph, offering open-air motoring while on the go. With the sunroof open, or the top fully lowered, the MINI Convertible is “Always Open” to the elements.

In its standard mode, the MINI Convertible’s roof goes from closed to open, in just over 15 seconds. The roof operates at the touch of a button and does not require the manual release of any latches.

Powered by an electro-hydraulic system, the top’s frame mechanism automatically unlatches and retracts. The four side windows lower automatically as the soft top folds neatly to the rear.

The ingenious and compact “z”-shaped folding mechanism lets the roof fold compactly to store behind the rear seats. Also, there is no need for a tonneau cover when the top is folded because the front section of the roof provides protection when the soft top is down.

The top operation can also be controlled by ingenious features built into the remote locking system. The key-operated remote locking system not only operates the doors, trunk and fuel door, but can open the roof and side windows from a distance up to 49 feet.

The first press of the unlock button on the key fob unlocks the driver door. When the button is pressed and released a second time, the passenger door, fuel filler flap and rear boot lid all unlock. If the button is pressed the second time and held, all four windows lower and the sunroof opens up. Lastly, if the key fob button is released, then pressed and held for the third time, the convertible top will fully retract – all this can be done without opening a door.

The top can also be fully closed from outside the car. By inserting the key into the driver's door lock, turning and then holding it in the locked position, the top will raise and fully latch, all four windows will close simultaneously and the doors and rear boot will automatically lock.

To top it off, the MINI Convertible top comes standard with a heated glass rear window that helps to maintain a clear view even in inclement weather; the top comes in three colors, blue, black and green.

### **Room to Haul**

Another truly unique feature of the MINI Convertible top is the easy load system. This feature allows the car to swallow up cargo through the rear boot in a very ingenious way:

With the top up, the lower rear edge of the top can be unlatched from inside the cargo area. This allows the rear edge to swing up 35 degrees to increase the size of the rear opening, easily allowing large items to pass into the cargo area. Due to the MINI Convertible's very rigid body structure, there is no need for a cross member at the top of the rear boot opening, nor a need for a rear bulkhead behind the rear seats. This allows for 50/50 split rear folding seats that can easily accommodate large or awkward sized items.

With the top in the up position, trunk capacity is 5.8 cubic feet, and even with the top down, the trunk provides 4.2 cubic feet of luggage space. With the rear seats folded down, cargo capacity is increased to a remarkable 21.3 cubic feet. Maximum load capacity is 771 pounds. While the top is down, the rear seatbacks are lockable in their upright position, so luggage in the trunk is protected from theft.

A rear parcel shelf is provided for safety and security. With the top lowered, the rear parcel shelf acts as a shield for the rear glass window to protect from possible damage by cargo in the rear boot. The top has a safety feature whereby the top will not lower unless the rear parcel shelf is properly installed.

With the top in the up position, the parcel shelf obstructs the view into the rear cargo area so valuables can be securely stowed out of view. The cargo shelf can be easily taken out when maximum cargo space is needed.

Taken from classic Mini design, the Convertible has externally mounted hinges on the rear bootlid that is designed to swing down to open. These signature MINI hinges are further accentuated with the optional exterior chrome trim package. When open, the boot lid is held in position by two supports, creating a practical loading platform capable of carrying up to 175 pounds – making the open bootlid a perfect place to hold a cooler or snacks when tailgating.

An added benefit that the boot lid opens downward is that it offers easier visibility and access to the rear cargo area without the need to bend down or duck under the open lid. The MINI Convertible also comes with a soft-touch electric latch release located in the boot handle.

## **EXTERIOR**

### **Always a MINI, Top Up or Down**

The MINI Convertible design combines sporty muscular styling with the functionality of a true four-seater, and yet looks like a MINI, top up or down. When closed, the roof of the MINI Convertible is slightly lower than the roof of the MINI hardtop, however the car still retains the signature MINI upright silhouette.

Due to the rigid structure of the car's body, the MINI Convertible does not require a protruding B-pillar or a "basket handle" structure behind the doors. Additionally the windshield is at an upright angle, providing more open space overhead. These design elements lend a feeling of spaciousness when the top is open and underscoring that the MINI Convertible is a true open-top car.

### **British Bulldog**

Like all Coopers, the MINI Convertible's most recognizable aspect is its face. The MINI Cooper Convertible has a completely re-designed front bumper, headlights and front grille. The front bumper has been enhanced with fewer crease lines and comes with chrome accents, which, along with newly integrated fog lamps, add a look of elegance, all while retaining MINI's signature bulldog look. The headlights are redesigned with new a new reflector and bezel design under the crystal and the grille is a new three slat design that compliments the overall changes to the MINI Convertible's instantly recognizable face.

The MINI Cooper S Convertible also offers design enhancements in front end styling with the addition of the new lights and a body-colored grille design. The MINI Cooper S Convertible continues to be distinguished by its design cues that underscore the performance the Cooper S provides under the hood. The air intake scoop on the hood, not only gives a muscular appearance, but provides fresh air to the supercharged engine's intercooler. The intercooler sits below a slight bulge in the bonnet, which is 1.6-inches higher than the standard hood. The S Convertible also features distinctive body-color bumpers and black, honeycomb grilles integrated into the lower valences.

The newly designed front headlights provide significantly more light for night driving, in addition to adding a striking design element to the Convertible. The light produced by the

halogen lamps is deflected through a special reflector system which helps increase light efficiency compared to the previous design. Also, when the “Pathway Lighting” feature is activated, the headlights remain lit for 30 seconds after the driver has left the vehicle. Optional Xenon headlights with automatic leveling make the transition from bright light to darkness more gradual.

### **Rear Quarters**

The Convertible’s short rear overhang is integrated with the curves of the quarter panels and black wheel arches and gives the car a rear angle, a sporting character. The back-up light is incorporated into the newly designed taillights which feature clear covers. A honeycomb trim insert replaces the previous reverse light location between the two chrome strips on the rear bumper, a perfect space reserved for the optional rear accessory fog lamp.

With the top fully lowered and stowed snugly behind the rear seats, the Convertible takes on the look of a muscular sports car. The standard high-strength aluminum roll bars are visible just above the rear seats, adding to the car’s “street racer” appearance. The roll bars feature integrated rear headrests can be trimmed in chrome when the optional exterior chrome package is selected on the MINI Cooper S Convertible. The MINI Cooper S Convertible comes standard with the roll bars trimmed in chrome and a set of centrally located, twin chrome-plated tailpipes integrated into the rear bumper.

Speaking of chrome, the optional exterior chrome trim package adds chrome to the mirror caps, rear boot lid hinges and handle along with chrome trim strips in the front and rear bumpers. On the MINI Cooper Convertible the roll bars are trimmed in chrome as part of the package.

All MINI Convertibles come standard with PDC – Park Distance Control mounted in the rear bumper for added safety and convenience. The PDC sensors located in the rear bumper measure the distance from the rear of the car to other objects such as a building or another parked car. As the driver backs closer to these objects, the system will sound an alert inside the car that beeps more rapidly as the car gets closer to the object. The tone becomes constant at a threshold prior to the rear bumper making contact with the object. This feature makes the already easy-to-maneuver MINI Convertible even easier to park in tight confines.

## **Windows to the World**

Like all MINI models, the MINI Convertibles feature frameless power windows. The convertible models are also equipped with a one-button express operation of all four windows. With the touch of a button located at the top of the windshield, all four windows can be raised or lowered simultaneously making quick work of opening up the car to the elements. To ensure a tight, moisture-free seal, each side-door window, lowers slightly when the door is opened, and then rises again when the door is shut. And as expected, all windows are tinted to minimize glare.

## **MINI Colors**

The MINI Convertibles are available in 10 exterior colors, including exclusive to the Convertibles – Hot Orange and Cool Blue. The Convertible’s side-view mirrors come in body color. With the three colors of the convertible top – black, blue and green – and there is quite a number of choices for customers to personalize the color combination of their MINI Convertible.

## **Hot Wheels**

The MINI Cooper Convertible comes standard with 15-inch light alloy wheels with a 5-spoke “rocket” design, mounted with standard, non-runflat 175/65 R15 tires. The MINI Cooper Convertible also come with optional 16-inch 5-spoke “star” design light alloy wheels mounted with 195/55 R16 run-flat tires.

The MINI Cooper S Convertible comes standard with 16-inch 7-spoke “fin” design light alloy wheels mounted with 195/55 R16 run-flat tires. And optional for the MINI Cooper S Convertible is a set of sporty 17-inch 5-spoke “bullet” design light-alloy wheels with 205/45 R17 run-flat tires. All MINI wheel sizes can be specified with either sport or all season tires.



## **INTERIOR**

### **A Sporty Cockpit**

The interior in the MINI Convertible and the MINI Cooper S Convertible have received the same attention to detail as the exterior. The highest-grade fabrics and surfaces complement the Convertible's sporting characteristics.

The MINI Convertibles offer multiple interior colors including a new Sunrise Dark Blue cloth/leather upholstery that is water-resistant – a perfect choice for a car which will likely spend most of the time with its top down. There are eight different upholstery choices for the MINI Cooper Convertible and seven different for the MINI Cooper S Convertible. Other upholstery materials include cloth, leather and leatherette,

The dashboard and door-panel inserts are available in silver, anthracite and aluminum-style trim. If the Convertible is ordered in one of five designated exterior colors, the dashboard and door panels can be ordered in body color at no charge. The door panels have a contoured handle and at night the interior door handles are back lit for ease of locating them in the dark.

The large speedometer at the center of the dashboard is reminiscent of the Classic Mini and continues on the MINI Convertibles. In addition to a speed read-out, the center gauge cluster incorporates warning lights, coolant and fuel level indicators, and service-interval and tire monitoring system indicators.

In true sports car fashion, the tachometer is located directly in front of the driver on the steering column. If the car is equipped with the optional navigational system, the screen is located in the center gauge cluster and the speedometer is relocated adjacent to the tachometer on the steering column.

An optional Chrono Gauge Package is available and houses analog readouts for fuel level, coolant temperature, oil pressure and oil temperature. The gauge package is located in the center of the dash and is designed with contrasting sized and colored gauges, reminiscent of a fine chronograph watch. This option gauge package also requires the speedometer to be relocated next to the tach.

Adding an elegant touch reminiscent of classic British motorcars is the optional Chrome Line interior trim package that adds chrome around the gauges, air outlets, select dash switches, the parking brake handle and the cup holders.

A new three-spoke leather-wrapped steering wheel, mounted on a height-adjustable column, adds to the sporting feel inside the Convertible. An optional multi-function sports wheel allows the driver to operate cruise control and radio functions without removing his or her hands from the steering wheel.

Front seat occupants get a supportive seat design with manual adjustments for height, fore/aft, rake and head-rest height. Contoured sport seats are available on the MINI Cooper Convertible and come standard on the MINI Cooper S Convertible.

Despite its small overall size, the MINI Convertible offers ample seating for four adults. Access to the rear seats is facilitated by wide-opening doors, as well as manual memory function front seats that move far forward. The rear seats are also ergonomically designed and utilize three-point safety belts.

Standard child-seat mounting latch points are also conveniently located in the rear seating area for the safe installation of one or two child seats.

## **SAFETY**

### **F.I.R.S.T. – Fully Integrated Road Safety Technology**

The extremely stiff body of the MINI Convertibles offer occupants a high level of protection when combined with the standard safety features. These safety features include intelligent front airbags, seatbelt latch tensioners, belt force limiters, head / thorax side airbags, reinforced A-pillars, door beams and strong roll bars. This technology in combination with a design that is engineered to manage the absorption of impact energy offers fully integrated crash protection and occupant safety.

### **Extra Stiff**

The stiff body structure on the Convertible does more than just provide excellent driving and handling characteristics; it is designed to redirect and absorb much of the impact energy away from the passengers and through the body in the event of a collision.

To enhance the already stiff chassis design of the MINI Convertibles, the floor and side sills are specially reinforced. These components are larger and even sturdier in the MINI Convertible, primarily through the use of additional lower B-pillar crossbars and floor pan stiffeners. High strength door beams are also incorporated into the vehicle structure to help reduce intrusion into the passenger compartment during a side impact.

High strength aluminum roll-over hoops behind the rear seats along with a reinforced A pillar windshield surround helps to protect occupants in the event of a roll-over. Through these additional reinforcements, the Convertible offers a high level of passenger protection while retaining precise and nimble driving dynamics.

In high-force frontal crashes, the MINI Convertible powertrain is engineered to “break away” and be pushed under the car as the impact forces are absorbed. This design helps channel energy away from the occupants and reduces the likelihood of intrusion into the passenger compartment.

### **Airbag Protection**

The MINI Convertible comes standard with four airbags. In addition to the two front-mounted airbags, the MINI Convertibles’ two side airbags protect occupants in the event of side impact.

These head/thorax airbags are concealed within the Convertible's seat upholstery and are deployed to protect the occupant's head and upper body in the event of a side impact.

Additionally, the seat belt latch tensioners activate in the event of an impact and tighten the belts to reduce excessive movement of the belted occupants. The front belts fasten to the Convertible's reinforced lower B-pillar; the rear belts attach to the high-strength rear roll bars.

### **Give Me A Brake**

The MINI Cooper Convertible and the MINI Cooper S Convertible feature 10.9-inch disc brakes in the front and 10.2-inch disc brakes in the rear, providing optimum stopping power, with standard Anti-Lock Brakes (ABS).

Also standard are two other electronic brake control and stability systems that offer excellent directional and driving stability, even in extreme situations. These systems include: Electronic Brake Force Distribution (EBD), which distribute brake forces between front and rear wheels, and, Cornering Brake Control (CBC), which prevents unstable conditions caused by lateral wheel load alterations in cornering situations .

Optional control systems include Dynamic Stability Control (DSC), which, when working in concert with the engine management system and braking system, helps to keep the vehicle from losing lateral adhesion when pushed to its limits. Working with the ABS system, DSC is able to monitor and intervene in critical situations by applying varied brake forces on individual wheels and changing engine torque through the engine management system.

### **Runflat Technology**

Both the MINI Cooper Convertible and the MINI Cooper S Convertible offer runflat tire technology. The reinforced sidewalls of the runflat tires, along with heat-resistant rubber compounds help maintain the tire's integrity even with a loss of air pressure. This technology helps to keep the deflated tire from completely collapsing or jumping off the rim while keeping frictional heat at a minimum.

The MINI Cooper Convertible comes with runflat tires when the vehicle is equipped with the optional 16-inch wheels. The MINI Cooper S Convertible comes standard with runflat tires when the car is equipped with either the standard 16 inch wheels or the optional 17 inch

wheels. The MINI Convertible can continue for up to 90 miles at speeds up to 50 mph with no air pressure in the tires.

As an additional tire safety measure, the MINI Cooper Convertible and the MINI Cooper S Convertible both come standard with a tire monitoring system. This system alerts the driver to any potential issue with regard to integrity of one or more tires.

When a tire loses pressure, its roll radius and circumference changes, which causes the wheel to rotate at a higher speed. The tire monitoring system uses the ABS sensors to compare the average rotational speed of each wheel in relation to the other wheels. If the average rotational speed of one wheel differs enough to fall out of the rotation average of all wheels – such as in the event of a loss of pressure - the tire monitoring system will alert the driver. The alert comes in the form of an audible chime and an amber blinking indicator light in the gauge cluster.

## **POWER TO THE PEOPLE**

### **Get Your Motor Running**

The 1.6 liter four cylinder engines that power the MINI Cooper and MINI Cooper S hardtops are shared with their new Convertible counterparts.

The engine block in both models is constructed of sturdy cast iron, which reduces engine noise and vibration. The cylinder head is aluminum, and features four hydraulically compensated valves per cylinder that are driven by an overhead camshaft with roller-type rocker arms.

Proven in the MINI Cooper hardtop, the engine in the MINI Cooper Convertible provides responsive power and motoring fun. The normally aspirated 1.6-liter unit in the MINI Cooper Convertible generates a maximum output of 115 horsepower at 6,000 rpm and develops maximum torque of 111 lb.-ft. at 4,500 rpm

### **Convertible “S” Power**

The MINI Cooper S Convertible features a 1.6 liter supercharged power plant that has been enhanced for 2005. Performance improves with modifications to the supercharger along with the addition of a lower restriction exhaust and modified gear ratios. Power has been increased to 168 horsepower @6,000. This allows the S Convertible to accelerate from zero to 60 in just 7.0 seconds and achieve a top speed of 138 mph.

In the MINI Cooper S, this 16-valve unit’s performance is further enhanced by a mechanically driven supercharger and intercooler. The supercharger compresses the fresh air drawn in by the engine to a pressure of 0.8 bar. Since the air warms up in this compression process, it is then cooled by an intercooler before entering the combustion chambers, thus ensuring a significant increase in engine charge, output, and performance.

Delivering the performance required in a MINI Cooper S results in increased thermal and mechanical loads on the power unit. Therefore a number of components such as the crankshaft, pistons, valves, radiator, and engine management parameters have been specially modified for this model.

Driven by a toothed belt, the compressor, unlike an exhaust gas turbocharger, does not have the usual time-lag in its response, but rather builds up torque until peaking at 162 lb-ft at a very useable 4,000 rpm.

The MINI Cooper S Convertible has a Getrag six-speed gearbox with performance-enhancing modifications to its gearing. By reducing the ratio of the first, second and third to fifth gears, a sprint from 50 mph to 75 mph in fourth gear takes just 6.1 seconds. The same exercise in fifth gear takes just 7.7 seconds.

Fuel consumption for the MINI Cooper Convertible is 27/30 mpg city/highway for a combined fuel economy rating of 35 mpg. The MINI Cooper S Convertible is 25/27 mpg city/highway. The MINI Convertibles naturally exceed government emissions standards and are clean enough that they do not require a complex exhaust gas recirculation system.

### **Drive-By-Wire**

All MINIs utilize drive-by-wire technology, which converts gas pedal actuation into an electrical signal. This signal, in turn, is transferred to a drivetrain control unit, which ensures maximum performance and minimum emissions under all operating conditions. The system also optimizes torque, which makes the engine extremely responsive to driver inputs.

### **Service Interval Indicator**

The time between service intervals depends on each individual's driving style. In some cases drivers can travel up to 15,000 miles before the next service is required. The system gathers data on the vehicle's operating conditions, including things such as fuel consumption and average speed. When the system reaches its threshold, a light on the dashboard informs the driver when a service is necessary.

### **Warranty Coverage**

All MINIs come with a four-year/50,000 mile new vehicle warranty, with a 12 year/unlimited mileage corrosion rust-through warranty. Also part of the warranty package is MINI's free maintenance program for a period of 3 years, 36,000 miles.

### **Automatic MINI: Continuously Variable Transmission with Steptronic**

The automatic transmission offered by MINI is an easy-to-operate continuously variable transmission (CVT), which also contains Steptronic control. This means that the driver can choose between normal automatic mode, which makes driving in city traffic easier, and a more sporty driving mode with a six-stepped semi-automatic transmission. While being responsive to drive, the continuously variable transmission is compact and lighter than a conventional automatic transmission.

A Continuously variable transmission (CVT) is different than a conventional automatic transmission. Where conventional systems need a torque converter, the CVT uses an oil bath multi-disc coupling that is electronically-controlled.

The transmission itself uses a fixed-length steel drive belt to connect two double cone-shaped belt pulleys which transmit the drive output from the engine, essentially offering infinitely variable transmission ratios.

The powertrain control unit continuously monitors the position of the belt pulleys and guarantees that the most suitable transmission ratio is provided for the current driving conditions. The CVT gearbox has been designed to incorporate six 'steps', which simulate the gear change of a conventional automatic box.

The CVT gear stick has positions for park, reverse, neutral and drive mode. These settings are indicated by the letters P, R, N and D, and an LED next to each letter shows where the selector position is at the time.

The CVT also has a Sports driving mode, engaged by moving the gear lever from position "D" leftwards to position "S". Sports mode contains a sporty tuning of the continuously variable operation. Within the CVT Sports mode, the driver can also select Steptronic for greater involvement in gear selection.

The transmission automatically changes from Sports mode to the Steptronic mode when the driver changes gear manually by moving the gear lever forwards or back. The shift status in Steptronic transmission is also shown on an LED display integrated into the speedometer.



In Steptronic mode, the main differences from “D” or “S” mode are the fact that six fixed ‘ratios’ are provided. These “gears” are created by the fact that the CVT transmission is set electronically to include these six steps.

The Steptronic function offers a more responsive driving feel, since the engine can run at up to 6,000 rpm. Failsafe protective switching prevents errors, which could damage the engine or transmission.

## **SUSPENSION**

### **Low, Wide and Agile**

The precise handling characteristics of MINI Convertibles are a result of having a low center of gravity, a wide track, a stiff body, a multi-arm rear axle with anti-roll bars and direct, quick-ratio steering. The MINI is a direct descendant of the classic Mini's design philosophy, which was the first production vehicle to be engineered with a space-saving transverse-mounted power unit driving the front wheels. This design results in a low center of gravity and favorable 60-percent front/40-percent rear weight distribution.

### **Chassis and Suspension**

As expected, the MINI Convertibles exhibit responsive handling due to the chassis design, which places the four wheels as far out to the corners as possible. Up front, the MINI Convertible features McPherson struts and a firm anti-roll bar, which allows it to track with confidence. Additionally, through the use of an additional axle bearing which allows both axles to be identical in length, the MINI doesn't exhibit unpleasant "torque steer" when driven aggressively.

The MINI Convertible features a sophisticated multi-arm rear axle which keeps the wheels in full contact with the road at all times. And the rear anti-roll bar provides excellent road holding even under hard cornering and on uneven road surfaces, adding to the neutral driving characteristics of the car.

### **Go-Kart-Like Steering**

Both the Cooper and the Cooper S Convertibles feature electro-hydraulic power-assist rack-and-pinion steering (EHPAS), which features quick ratio steering with just 2.5 turns lock-to-lock and offers drivers immediate response to steering input. The EHPAS is operated by a small electric motor and is different from traditional hydraulic pump systems in that it only produces power-assist when the steering wheel is turned. This reduces the need for the engine to constantly drive the hydraulic pump via a belt, thereby adding to performance and reducing fuel consumption.

## **HIGH TECH DROP TOP**

### **Electronic Systems**

Despite the Convertible's small outer dimensions, the car is packed with sophisticated technology. A high-tech data bus system or k-bus system is incorporated to enhance reliability and reduce the amount of cables, wires and connectors,

The k-bus system reduces the number of wires and cables by using the same wires and cables for different systems, called mutual data transmission. Besides reliability, the k-bus system makes assembly much easier, reduces weight and allows for the integration of additional functions such as rain sensors.

Other high-tech systems not usually found in cars of this class include an optional navigation system with a color display, PDC Park Distance Control (standard on the Convertible) and the multi-function steering wheel. Additional options also include an interior mirror with anti-dazzle and rain sensing function for the windshield wipers.

### **Effective Anti-Theft**

The MINI Convertibles come with Coded Driveaway Protection that all but eliminates theft of the car without the key. Unless the computer chip in the key recognizes a random, rolling code in the car's memory system, the car will not start. This system, when combined with the optional alarm system, will help reduce the chance of theft of a MINI Convertible.

The alarm system has its own power supply which is set off upon forced entry through the doors or windows, or by attempting to lift or push the car. The system works even if the roof is in its lowered position. If an unauthorized person attempts to enter the car, the hazard warning lights come on and the horn sounds for 30 seconds.

### **Crank Up the Tunes**

The Convertible's sound system has been designed to deliver quality sound performance ideally suited for the car's interior size and shape. The basic system features six speakers – four in the front doors and two in the rear side panels.

An optional harmon/kardon system, featuring eight specially designed speakers and a digital amplifier, is available for audiophiles. When accompanied with the Digital Sound Processor, the system allows the driver to choose different quality audio patterns for each seat.

An array of audio options is available for the Convertible, from the trunk-mounted six-CD changer, to the 600 watt Digital Sound Module, sure to satisfy the true audio enthusiast.

## **CRAFTED IN OXFORD**

### **Volume and Flexibility**

The MINI Convertibles are produced in Oxford, England on the same assembly line as the MINI hardtops. A workforce of 4,500 people work two weekday shifts and one weekend shift to produce 3,500 MINIs per week. In 2003, more than 170,000 MINIs came off the assembly line. Of all those MINIs, the probability of two MINIs being produced exactly alike is well above 100,000 to 1.

More than 250 robots, 20 of which were designed specifically for Convertible production, assist in the production of each MINI's basic body shell. Weighing just 540 pounds, the shell is composed of more than 300 sheet metal components, about 100 of which are exclusive to the Convertible.

In a 100-percent automated process, robots are responsible for more than 4,000 spot welds in the assembly of the substructure, roof, cowl, doors, hood and trunk lid. In addition to spot welding and brazing, more than 12-feet of MIG welding goes into each MINI. More than 168 feet of special adhesive technologies are used during MINI production. In all, more than 4,700 parts and components make up a MINI Convertible.

### **Body Armor**

Each Convertible travels more than three and a half miles on the assembly line as it undergoes a multi-stage finishing process of corrosion protection, color and shine. Each body is dipped in phosphate, which helps reduce the chance of corrosion. Afterwards, each body receives a coat of surface primer before receiving a color top coat. Finally, a two-part clear coat is applied to add shine and protect against adverse environmental influences.

The entire painting process takes about 10 hours, including drying time, and uses environmentally friendly technology. For instance, use of water-based paint technology has led to a dramatic reduction in the use of solvents.

### **Complex Engineering**

Complex logistics and processes go into the manufacture of every MINI. For instance, the MINI cockpit and instrument panel is one of the most complex pre-assembled modules in the

automotive industry. The instrument panel, steering wheel and column, heating, switches, control stalk and wiring harness are fitted as one part. In theory, nearly 2 million different cockpit layouts are possible when every variation is taken into consideration.

### **Quality Assured**

A team of 250 people are responsible for the quality checks and measurements on each MINI Convertible. For example, each Convertible is exposed to a “tropical storm” test in order to ensure tight weather sealing of each convertible top. Pertinent data is collected on each car under the KISS system (core production integrating control system), which assures that each car meets the high standards required by the BMW Group before it leaves the factory.

### **MINI and the BMW Group in the United States**

BMW of North America, LLC has been present in the United States since 1975. ROLLS-ROYCE Motor Cars NA, LLC began distributing vehicles in 2003. The BMW Group in the United States has grown to include marketing, sales, and financial service organizations for the BMW brand, the MINI brand, and the ROLLS-ROYCE brand of Motor Cars; DesignworksUSA, an industrial design firm in California; a technology office in Silicon Valley and various other operations throughout the country.

BMW Manufacturing Co., LLC in South Carolina is part of BMW Group's global manufacturing network and is the exclusive manufacturing plant for all Z4 Roadster and X5 Sports Activity Vehicles. The BMW Group sales organization is represented in the U.S. through networks of 340 BMW passenger car centers, 327 BMW Sports Activity Vehicle centers, 148 BMW motorcycle retailers, 76 MINI passenger car dealers, and 25 ROLLS-ROYCE Motor Car dealers. BMW (US) Holding Corp., the BMW Group's sales headquarters for North, Central and South America, is located in Woodcliff Lake, New Jersey.

Information about BMW Group products is available to consumers via the Internet at:

[www.bmwusa.com](http://www.bmwusa.com)

[www.bmwmotorradusa.com](http://www.bmwmotorradusa.com)

[www.miniusa.com](http://www.miniusa.com)

[www.rolls-roycemotorcars.com](http://www.rolls-roycemotorcars.com)

## **STANDARD AND OPTIONAL EQUIPMENT**

The MINI Convertible comes standard with these items:

- Fully automatic convertible top with sliding sunroof
- Four airbags
- Four disc brakes with ABS, CBC, EBD
- Electro-hydraulic power steering
- 15-inch light alloy wheels
- Tire monitoring system
- Heated glass rear window
- Rear seat backrests that fold forward in 50/50 split configuration and lockable in position
- Easy-load function
- Lockable glove compartment
- Park Distance Control (PDC)
- Tachometer
- Central locking with remote control
- Front and rear electric windows
- Electrically operated exterior mirrors
- Body colored bumpers
- Locking fuel filler cap

The MINI Cooper S Convertible features the items above, with the following upgrades:

- Six-speed manual gearbox
- 16-inch light alloy wheels
- Sports suspension
- Body colored front grille
- ASC+T (Automatic Stability Control + Traction)

### **Optional Equipment**

- Interior mirror with automatic anti-dazzle function
- Chrome Line Interior Package
- Chrome Line Exterior Package
- Chrono Gauge Package
- Dynamic Stability Control (DSC)
- Audio systems - harmon/kardon, CD changer,
- Child seats (ISOFIX)
- Automatic climate control
- A variety of 16- and 17-inch light alloy wheels
- Multifunction steering wheel
- Rain sensor
- Automatic Stability Control + Traction (ASC+T) (Standard on Cooper S)
- navigation system with color display
- Chrome-plated roll bars
- Wind deflector
- Xenon headlights



## MINI Convertible 2005 Model Year U.S. Suggested Retail Prices

ZSP = Sport Package, ZPP = Premium Package, ZCW = Cold Weather package

Description	Cooper Convertible	Cooper S Convertible
Base Price	\$20,950	\$24,400
Destination & Handling	\$550	\$550
<b>Optional Equipment</b>		
Continuously Variable Auto Trans (CVT)	\$1300	NA
Dynamic Stability Control (DSC)	\$500/ZSP	\$500/ZSP
Sport Suspension	\$500	STD
Sport Suspension Plus	NA	NA
Multifunction Steering Wheel	\$250/ZPP	\$250/ZPP
Alloy Wheels 15" 7-hole (all-season tires)	NC	NA
Alloy Wheels 16" 5-star (run-flat performance tires)	\$600/ZSP	NA
Alloy Wheels 16" V-spoke (all-season tires)	NA	NC
Alloy Wheels 17" 5-spoke Bullet	NA	\$600/ZSP
Alloy Wheels 17" S-Lite (all-season tires)	NA	\$600/ZSP
Bonnet Stripes (Black or White)	NA	\$100/ZSP
Chrome Line Interior	\$200/ZPP	\$200/ZPP
Chrome Mirror Caps (and Hinges on Convertible)	\$120	\$120
Chrome Line Exterior (including Chrome Mirror Caps)	\$250	\$250
Mirror Caps in Body Color	STD	STD
Alloy Wheels and Mirror Caps in White	NC	NC
Interior Surface Silver	STD	NC
Interior Surface Alloy Patina	NA	STD
Interior Surface Anthracite	NC	NC
Interior Surface Body Color	NC	NC
Universal Garage Door Opener	\$200	\$200
Rain Sensor Auto-Dimming Mirror	\$150	\$150
Sport Seats	\$270/ZSP	STD
Heated Front Seats	\$270/ZCW	\$270/ZCW
Park Distance Control (PDC)	STD	STD
Fog Lamps	\$140/ZSP	\$140/ZSP
Xenon Headlights (with Power wash)	\$550	\$550/ZSP
Automatic Air Conditioning (with carbon filter)	\$300/ZPP	\$300/ZPP
Cockpit Chrono Gauge Pack	\$250	\$250

	<b>Cooper Convertible</b>	<b>Cooper S Convertible</b>
On-Board Computer	\$200/ZPP	\$200/ZPP
Navigation System	\$1700	\$1700
8-spkr harmon kardon sound with DSP	\$550/ZPP	\$550/ZPP
AM/FM Stereo Cassette (in place of CD player)	NC	NC
Sunrise/Dark Blue Cloth-Leather Combo Interior	\$800	\$800
Leather Upholstery	\$1,300	\$1,300
Metallic Paint	\$420	\$420

## MINI 2005 Model Year U.S. Option Packages For MINI Convertibles

	<b>Cooper Convertible</b>	<b>Cooper S Convertible</b>
Sport Package (ZSP)	<b>\$1350</b> <ul style="list-style-type: none"> <li>• Dynamic Stability Control (DSC)</li> <li>• 16" 5-Star wheels with performance tires</li> <li>• Sport seats</li> <li>• Front fog lights</li> </ul>	<b>\$1350</b> <ul style="list-style-type: none"> <li>• Dynamic Stability Control (DSC)</li> <li>• 17" Alloy wheels with performance tires</li> <li>• Headlamp power wash</li> <li>• Front fog lights</li> <li>• Xenon Headlights</li> <li>• Black or white bonnet stripes</li> </ul>
Premium Package (ZPP)	<b>\$1350</b> <ul style="list-style-type: none"> <li>• Cruise Control</li> <li>• Multi-function Steering Wheel</li> <li>• Chrome Line Interior</li> <li>• Automatic Air Conditioning</li> <li>• On Board Computer</li> <li>• harmon/kardon Premium Sound</li> </ul>	<b>\$1350</b> <ul style="list-style-type: none"> <li>• Cruise Control</li> <li>• Multi-function Steering Wheel</li> <li>• Chrome Line Interior</li> <li>• Automatic Air Conditioning</li> <li>• On Board Computer</li> <li>• harmon/kardon Premium Sound</li> </ul>
Cold Weather Package (ZCW)	<b>\$300</b> <ul style="list-style-type: none"> <li>• Heated Front Seats</li> <li>• Heated Side-View Mirrors</li> <li>• Heated Washer Jets</li> </ul>	<b>\$300</b> <ul style="list-style-type: none"> <li>• Heated Front Seats</li> <li>• Heated Side-View Mirrors</li> <li>• Heated Washer Jets</li> </ul>

