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## BMW X5 4.4i 2005



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**Technical Specs:** All Technical Specs are before vehicle armoring

### Engine

Standard Engine	4.4L V8
Standard Transmission	5 Speed Automatic
Cylinders	8
Horsepower @ RPM	315@5400
Fuel Economy Cty/Hwy	16 / 22
Combined Fuel Economy	18
EPA Class	Four Wheel Drive SUV
Number of Valves	32
Torque @ RPM	324@3600
Fuel Type/System	Gas Engine / Sequential Electronic Fuel Injected
Turbo (yes/no)	No
Overdrive Transmission	Yes
Battery Output	N/A
Compression	10.0
Displacement	4398 / 268
Bore X Stroke	3.62x3.26
Cruising Range	437.4



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### Engine Continued

Final Drive Gear Ratio Opt	N/A
Power To Weight Ratio	15.6
Final Drive Ratio	4.10
Valves Configuration	Dual Overhead Cam/Twin Overhead Cam
Supercharged	No
Electric HorsePower RPM	N/A
Electric Torque Feet Per Pound	N/A
Electric Torque RPM	N/A
Electric HorsePower BHP	N/A

### Capacity & Volume

Cargo Volume (EPA)	N/A
Cargo Volume (MFR)	23.8
Fuel Capacity	24.3
Passenger Volume (EPA)	N/A
Passenger Volume (MFR)	97.6
Box/Cargo Height	Not Listed
Box/Cargo Length	Not Listed
Box/Cargo Width (Wheel)	Not Listed
Box/Cargo Width (Wall)	Not Listed
GVWR Standard	6008
GVWR Maximum	6008
Payload Standard	1081
Payload Maximum	1081

### Brakes, Steering, Suspension & Tires

Brakes (Front)	Disc
Brakes (Rear)	Disc
Driveline	All Wheel Drive
Driveline (Opt)	N/A
Steering	Rack & Pinion
Steering Diameter Left	39.7
Steering Diameter Right	39.7
Suspension (Front)	Independent
Suspension (Rear)	Independent
Tire Type	Passenger



**Brakes, Steering, Suspension & Tires Continued**

Tire Width	255
Tire Aspect Ratio	55
Tire Construction	Radial
Tire Wheel Diameter	18

**Interior Dimensions**

Seating (Standard)	5
Seating (Optional)	N/A
Tow Capacity (Standard)	6000
Tow Capacity (Maximum)	6000
Headroom (Front)	39.9
Headroom (Row 2)	38.5
Hiproom (Front)	Not Listed
Hiproom (Row 2)	Not Listed
Legroom (Front)	39.3
Legroom (Row 2)	35.4
Shoulder Room (Front)	58.0
Shoulder Room (Row 2)	57.2
Seating (Maximum)	5
Headroom (Row 3)	N/A
Hiproom (Row 3)	N/A
Legroom (Row 3)	N/A
Shoulder Room (Row 3)	N/A

**Exterior Dimensions & Weight**

Curb Weight MT	N/A
Curb Weight AT	4927
Ground Clearance	7.1
Height	69.0
Length	183.7
Top Type (Standard)	Hard Fixed
Top Type (Optional)	Not Applicable
Track (Front)	61.4
Track (Rear)	61.4
Weight Distribution AT (Front)	50
Weight Distribution AT (Rear)	50
Weight Distribution MT (Front)	N/A
Weight Distribution MT (Rear)	N/A



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### Exterior Dimensions & Weight Continued

Wheelbase	111.0
Width	73.7
Doors (Standard)	4
Doors (Maximum)	4

### Crash Test Ratings, Sales & Origin

Where Built	U.S.A.
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### Standard Features:

#### Transmission

- 5-Speed Electronically Controlled Adaptive, Manually Interactive Automatic Transmission With Overdrive
- Adaptive Transmission Control (ATC) Adaptive Automatic Transmission
- Steptronic Manually Interactive Transmission

#### Steering

- Power Telescopic Steering Wheel
- Power Engine Speed Sensitive Rack and Pinion Variable Assisted Steering
- Automatic Tilt Away Steering Column
- 3-Position Memory Steering Column
- Power Tilt Steering Wheel

#### Suspension

- Rear Automatic Load-Leveling
- Independent Double Pivot Strut-Type Front Suspension With Coil Springs and Twin Tube Gas Pressure Shock Absorbers
- Independent 4-Link Integrated Rear Suspension With Air Springs and Twin Tube Gas Pressure Shock Absorbers
- Rear Stabilizer Bar

#### Electrical

- Audio Prewiring
- 140-Amp Alternator
- Rear Seat Power Outlet Integrated With Cigarette Lighter and 2 Cargo Area Power Outlets
- Front and Rear Cigarette Lighters With Rear Ashtrays



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- 80-Amp/Hours Battery
- Battery Saver
- Delayed Power Retention Operates Windows
- Front Power Outlet Integrated With Cigarette Lighter

### Braking & Traction

- All-Season 4-Wheel Traction Control Controlled By ABS and Engine Management
- xDrive All-Wheel Drive
- Dynamic Stability Control System (DSC-X) Operated Via Engine Power Reduction and ABS Traction Control Measures Steering Wheel Angle/Direction, Wheel Speed, Yaw Rate, Lateral Acceleration and Brake Pressure
- Hill Descent Control (HDC)
- 4-Wheel Anti-Lock Brakes
- Front Power 333-mm X 30-mm Ventilated Disc and Rear Power 325-mm X 12-mm Ventilated Disc Brakes
- Electronic Brake Assistance
- Electronic Brake Force Distribution

### Safety

- Front and Rear Head Side Head Curtain Airbags Protection System (HPS) Located In Headliner and Roof
- Front and Rear Electronic Parking Aid With Alarm and 8 Ultrasonic Sensors
- Door Mounted Front Side Airbags
- Driver Airbag With Dual Stage Deployment
- Passenger Airbag Cutoff Sensor Activated By Passenger Weight
- Front Passenger Airbag With Dual Stage Deployment
- Automatic Locking Retractors On All Passenger Seatbelts
- Emergency Fuel Shut-Off Device
- Front and Rear Crumple Zones
- Front Seatbelt Height Adjusters
- Rear 3-Point Center Seatbelt
- Front and Rear 3-Point Seatbelts
- Front Pretensioners With Force Limiters
- Side Guard Door Beams

### Anti-Theft & Locks

- Radio Anti-Theft
- Child Safety Door Locks
- Locking Fuel Filler Door
- Power Tailgate Lock/Unlock Via Remote or Interior Switch
- Power Door Locks



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- Selective Locking/Unlocking Via Remote Keyless Entry
- Vehicle Anti-Lockout
- Vehicle Anti-Theft Via Double Locking, Alarm, Anti-Lift Sensor, Engine Immobilizer, Exterior Monitoring and Interior Monitoring

### Remote Controls & Remote Releases

- Remote Tailgate Release Located Inside Vehicle and On Multi-Function Remote
- Remote Fuel Door Release Located On Multi-Function Remote
- 3-Function Universal Garage Door Opener Located On Overhead Console Works With Available HomeLink(R) Lighting Accessories
- Keyless Entry Operated Via Key Fob
- Programmable Multi-Function Remote Operates Anti-Theft, Door Lock/Unlock, Exterior Lights, Fuel Door, Illuminated Entry, Panic Alarm, Power Windows and Liftgate
- Panic Alarm

### Seats

- Front Power Driver Seat Adjusts 8 Ways Total
- Dakota Leather Seats
- Front Power Passenger Seat Adjusts 8 Ways Total
- Front Dual Reclining Bucket Seats With 3-Position Driver Power Memory, Adjustable Seat Height and Adjustable Headrests
- Rear 60/40 Split Folding Bench Seat With Three 2-Way Manually Adjustable Headrests and Fold-Down Center Armrest

### Storage

- Lockable and Illuminated Glovebox With Rechargeable Take-Out Flashlight
- Front Dual Seatback Storage Pockets
- Overhead Console Storage
- Cargo Net
- Retractable Cargo Cover
- Covered Lower Console Storage Located On Floor
- Cargo Area Tiedowns
- Coinholder
- 2 Front and 2 Rear Cupholders, 4 Cupholders Total
- Front Dual and Rear Door Mounted Storage
- Roof Rails



## **Instrumentation**

- Cruise Control
- Steering Wheel Mounted Controls For Air Conditioning, Audio and Cruise Control
- Service Interval Indicator
- Exterior Temperature Gauge
- Trip Computer With Average Speed, Average Fuel Consumption and Miles To Empty
- Digital Clock
- Check Control Vehicle Monitor With Pictogram Display Of Release Parking Brake, Overheated Engine Coolant, Brake Fluid, Speed Limit, Trunklid Open, Door Open, Fasten Seatbelts, Low Windshield Washer Fluid, Engine Oil, Brakelights and Headlights
- Tachometer

## **Interior Lighting**

- Interior Load Area Light
- Delayed Courtesy Lights
- Courtesy Lights Include BMW Ambiance Lighting, Front Stepwell, Side Stepwell and Door Handles
- Front and Rear Dual Reading Lights

## **Exterior Lighting**

- Automatic Headlights With Automatic On, Automatic Off and Dusk Sensor
- Adaptive High Beam and Low Beam Xenon High Intensity Discharge Headlights With Auto Leveling
- Variable Intensity Brake Lights
- Front Halogen Foglights
- Perimeter Lighting

## **Entertainment, Communication & Navigation**

- Radio Data System (RDS)
- AM/FM Radio With 10 Speakers Total; CD Player
- Diversity Radio Antenna

## **Heating, Ventilation & Air Conditioning**

- Separate Driver/Front Passenger Climate Controls
- Rear Seat HVAC Controls
- Automatic Climate Control
- Interior Active Charcoal Air Filter
- HVAC Rest Mode



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- Rear HVAC Ducts Located On Rear Of Center Console and Under Seats

### **Interior, Design, Decor & Floor Covering**

- Second Row Carpeted Floor Mats
- Front Carpeted Floor Mats
- Leather Steering Wheel
- Tool Kit
- Dark Poplar Genuine Wood Trim Located On Instrument Panel, Doors and Center Floor Console
- Carpet Located In Passenger Cabin and Cargo Area
- Leather Located On Shift Knob

### **Doors**

- Latching Power Liftgate
- Fold-Down Tailgate

### **Wheels & Tires**

- Alloy Wheels, 18-In. X 8.5-In.
- SBRP255/55HR18 All-Season Tires
- Full-Size Spare Tire
- Interior Spare Tire

### **Windows, Mirrors & Wipers**

- Dual Power Adjustable Heated Folding Exterior Rearview Mirrors With 3-Position Memory
- Heated Washer System
- Flip-Up Liftgate Window
- Front Dual Illuminated Vanity Mirrors
- Power Window Lockout
- Power Windows With One-Touch Up, One-Touch Down and Pinch Protection
- Rear Window Defroster
- Front Green Tinted Glass
- Front Dual Sunvisors
- Rain Sensing Vehicle Speed Sensitive Windshield Wipers With Variable Delay
- Intermittent Rear Window Wiper/Washer

### **Exterior, Design, Paint & Finish**

- Front and Rear Black and Body Color Impact Absorbing Bumpers
- Black Running Boards
- Rear Air Dam
- Skid Plates Located On Fuel Tank and Engine



- Front Air Dam
- Metallic Paint (If Selected)
- Body Color Exterior Door Handles and Trim

## **MAINTENANCE**

### **1.1 MAINTENANCE Package (Optional)**

#### **1.1.1 Maintenance Levels**

The System Operators or Technical Personnel are responsible for the following Maintenance tasks and include the following:

- i. Preventive Maintenance such as Inspections.
- ii. Preventive Maintenance such as Cleaning.
- iii. Preventive Maintenance such as Services.
- iv. Corrective Maintenance such as Replacement of Items with a High Failure Rate or Wear-out Rate and which can be replaced with ease.
- v. Corrective Maintenance by Replacement of LRU's (Line Replaceable Units, Assemblies, Sub-assemblies etc.) with a High Failure Probability, High Criticality and which are within the Capability.
- vi. Recovery of Equipment from the Deployment or Units to a maintenance level for Corrective Maintenance.

#### **1.1.2 Maintenance Equipment**

Available at all repair facilities

- i. Operating Equipment and Accessories.
- ii. Maintenance Equipment. (Toolboxes)
- iii. Maintenance Items.(Service Packages)
- iv. Spares as required.
- v. Support Equipment as required.
- vi. Special Support and Test Equipment as required.
- vii. Common Support and Test Equipment as required.



## **1.2 MAINTENANCE ELEMENTS**

### **1.2.1 Documentation**

The following documentation is used for vehicle Maintenance:

- i. Operators Maintenance Manual (OMM) for the Operators Maintenance Tasks.
- ii. Maintenance Schedule for the definition of all Preventive Maintenance.
- iii. Workshop Repair Manual (WRM) for Technical Maintenance Tasks.
- iv. Illustrated Parts Breakdown (IPB) to identify Spare Parts.
- v. Illustrated Stock List (ISL) to identify Support Equipment and Spares.

### **1.2.2 Support Equipment**

The following types of support equipment are used for Maintenance:

- i. Support Equipment carried in the Equipment ETS Boxes including Operating Equipment, Accessories and Maintenance Equipment.
- ii. Support Equipment as required for Preventive and Corrective Maintenance.
- iii. Support Equipment required and consists of Special Tools and Common Equipment which are within the Capability.

### **1.2.3 Spares**

The following types of spares are required for Maintenance:

- i. Spares kept in the Equipment ETS Boxes.
- ii. Preventive and Corrective Maintenance Spares.

### **1.2.4 Personnel**

The following operating and or technical personnel are located at all repair facilities:

- i. Auto Electricians for Vehicle and PSU Electrical.
- ii. Auto Mechanics for diesel and petrol engines.



## Armoring

Vehicle Armoring is available in all different levels depending on customer preferences. For more information on armoring levels please visit [www.mushriquiconsulting.com/armorlev.htm](http://www.mushriquiconsulting.com/armorlev.htm)

### B5 Armored Vehicles

<p>Certification</p>	<ul style="list-style-type: none"> <li>• H. P. WHITE LABORATORIES U.S.A</li> <li>• UNITED STATES LABORATORY</li> </ul> <p>THE COMPLETE TESTING STANDARDS SET OUT IN THE GUIDELINES REFERRED TO, AS WELL AS THE TEST PROTOCOL AND ALL CERTIFICATES, MAY BE VIEWED.</p>
<p>Suspension &amp; Braking System</p>	<p><b>REAR STABILISER BAR</b> UPGRADED TO A HEAVY DUTY MODEL</p> <p><b>BRAKING SYSTEM</b> IS FULLY MODIFIED TO PERFORM UNDER ADDITIONAL ARMoured VEHICLE BODY.</p> <p><b>TIRES AND RIMS</b> FITTED ARE FULLY APPROVED FOR THE HIGHER VEHICLE WEIGHT RATIO ACCORDING TO TÜV / MOT (DOT EQUIVALENT) TYPE RECOMMENDATIONS AND LEGAL REQUIREMENTS.</p> <p><b>MODIFICATIONS</b> ARE CARRIED OUT TO ASSURE THAT THE VEHICLE PASSES THE VERY EXACT GERMAN TYPE APPROVAL.</p>
<p>Extra Security Equipment Fitted as a Standard to Vehicle</p>	<p><b>REINFORCED HINGES:</b> SPECIALLY DESIGNED REINFORCED STRENGTHENED HEAVY DUTY DOOR HINGES A MINIMUM OF TWO EXTRA HINGES PER DOOR</p> <p><b>PROTECTED FUEL TANK:</b> COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS WITH LEVEL CEN B5. UTILIZING ARMoured STEEL</p> <p><b>PROTECTED VEHICLE MANAGEMENT SYSTEM (BLACK BOX):</b> COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS UTILIZING LEVEL CEN B5. WITH ARMoured STEEL</p>



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	<p><b>RUN-FLAT TIRE SYSTEM:</b> 50 KM DISTANCE AT 50 Km/H SPEED.</p> <p><b>REAR CARGO:</b> 100% PROTECTION AGAINST FOREIGN PROJECTILES AND SPLINTERS. THE TRANSPARENT ARMOUR AREA PROVIDES REAR VIEW VISION WITH MINIMAL OBSTRUCTION.</p> <p><b>VEHICLE SUSPENSION STABILISING BARS:</b> ROBUST HEAVY DUTY HARD WEARING COIL SYSTEM. OEM COMFORT STANDARDS ARE MAINTAINED WITH THIS FEATURE.</p>
Optional Security Extras	<ul style="list-style-type: none"> <li>• ALARM SIREN</li> <li>• BATTERY PROTECTION</li> <li>• BEACON CONNECTOR</li> <li>• BULL BAR</li> <li>• CENTRAL DOOR LOCKING</li> <li>• FIRE EXTINGUISHER SYSTEM</li> <li>• FLAG POLES</li> <li>• FOG LAMPS</li> <li>• HEAVY DUTY CAR JACK</li> <li>• 10 TON WRENCH</li> <li>• 4 WINDOW OPERABLE LIFTERS</li> <li>• INTERCOM / PUBLIC ADDRESSING SYSTEM</li> <li>• MAGNETIC BEACON             <ul style="list-style-type: none"> <li>• RADIO/CD COMBINATION</li> <li>• STALK MOUNTED MAP READING LAMP</li> </ul> </li> </ul>
Service Package	<p>Local Service Provided in Iraq (Baghdad, at Camp Victory &amp; Camp Brooklyn and for all other locations in Iraq like Mosul, Tikrit, Basrah and Balad a team of engineers &amp; technicians will be sent on a secure military base) Kuwait , Jordan, Egypt, U.A.E. , U.S.A. , Canada, Russia, Brazil, Mexico, Turkey, Sweden, France, Italy, Afghanistan, and Germany. All other countries are available upon request, All the above have the ability to conduct full warranty, maintenance &amp; service for ballistic and non ballistic needs</p>
Strobe Lights	<p>BLUE OR RED LIGHTS VISIBLE OR NON-VISIBLE EXCEPT WHEN TURNED ON CAN BE MOUNTED TO THE VEHICLE TO DRAW ATTENTION IN STANDARD TRAFFIC SITUATIONS.</p>









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Telephone / Radio Cable Preparation	PRE-WIRING HAS BEEN LAID THROUGHOUT THE VEHICLE TO ASSIST FURTHER INSTALLMENT OF COMMUNICATION EQUIPMENT FOR ON BOARD TELEPHONE.
Toolbox	Standard Tools included for emergency situations

### Warranty

- 3 YEARS OR 60,000 KM WHICHEVER COMES FIRST
- WARRANTY FOR DEFECTS IN MATERIALS AND WORKMANSHIP AFTER TRANSFER OF RISK.
- SERVICES UNDER THE WARRANTY SHALL ONLY BE PROVIDED FREE OF CHARGE IF THE DEFECTS ARE PROVEN IN DESIGN, MATERIALS OR WORKMANSHIP.
- THE WARRANTY IS EXTENDED TO ANY PARTS INSTALLED WHEN REMEDYING THE DEFECTS UNTIL EXPIRE OF THE WARRANTY PERIOD.

### SAMPLE (Pictures doesn't reflect car type)

		
REAR HATCH DOOR	BATTERY COMPARTMENT	DOORS
		
ROOF	FRONT COMPARTMENT	RUNFLATS