

## 2003 BMW 5 Series

### Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red	+	ignition harness
Second 12 Volts			
Starter	black/yellow	+	ignition harness
Second Starter			
Ignition	green	+	ignition harness
Second Ignition	purple	+	ignition harness
Third Ignition			
Accessory			
Second Accessory			
Third Accessory			
Key Sense			
Data Bus			
Can Bus High			
Can Bus Low			
Can Bus Sw			
Power Lock	blue/red	+	driver door module in door
Power Unlock	black/white (double pulse)	+	driver door module in door
Lock Motor			
Unlock Motor			
Disarm Defeat			
Parking Lights (+)			
Parking Lights (-)	black		headlight switch
Hazards			
Turn Signal (Left)			
Turn Signal (Right)			

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>			
<b>AutoLights</b>			
<b>Reverse Light</b>			
<b>Left Front Door Trigger</b>	blue/red	+	dome light
<b>Right Front Door Trigger</b>			
<b>Left Rear Door Trigger</b>			
<b>Right Rear Door Trigger</b>			
<b>Dome Supervision</b>	comes on with unlock		
<b>Trunk/Hatch Pin</b>	brown/white	-	trunk pin switch
<b>Rear Glass Pin</b>			
<b>Hood Pin</b>			
<b>Trunk Hatch/Release</b>	gray/black	-	trunk release switch
<b>Trunk Release Motor</b>			
<b>Fuel Door Release</b>			
<b>Power Sliding Door (Left)</b>			
<b>Power Sliding Door (Right)</b>			
<b>Factory Alarm Arm</b>	arms with lock		
<b>Factory Alarm Disarm</b>	disarms with unlock		
<b>Disarm No Unlock</b>			
<b>Trunk Alarm Shunt</b>			
<b>Tachometer</b>	black	ac	round diagnostic plug under hood
<b>Wait to Start</b>			
<b>Neutral Safety</b>			
<b>Clutch Pedal</b>			
<b>Fuel Pump</b>			
<b>Rear Defroster</b>			
<b>Mirror Defroster</b>			
<b>Left Front Heated Seat</b>			
<b>Right Front Heated Seat</b>			

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
Speed Sense			
Brake Wire	brown/gray	+	brake pedal switch
Parking Brake			
Horn Trigger			
Wipers			
Left Front Window (Up/Down)	see notes		
Right Front Window (Up/Down)			
Left Rear Window (Up/Down)			
Right Rear Window (Up/Down)			
Sun Roof (Open/Close)	see notes		
Sun Roof (Limit/Close)			
Memory Seat 1			
Memory Seat 2			
Memory Seat 3			
Radio 12V			
Radio Ground			
Radio Ignition			
Radio Illumination			
Factory Amp Turn-on			
Power Antenna			
Left Front Speaker (+/-)			
Right Front Speaker (+/-)			
Left Rear Speaker (+/-)			
Right Rear Speaker (+/-)			
Center Channel (+/-)			
Subwoofer (+/-)			
Aux. Audio Input Left (+/-)			
Aux. Audio Input Right (+/-)			
RSE Video (+/-)			
RSE Audio Left (+/-)			
RSE Audio Right (+/-)			
Satellite Radio 12 Volts			
Satellite Radio Ground			
Satellite Radio Ignition			
Satellite Radio Antenna			
Satellite Audio Left (+/-)			
Satellite Audio Right (+/-)			

*What Fits*

Item	Size	Depth	Location
Headunit			
Left Front Speaker			
Left Front Tweeter			
Right Front Speaker			
Right Front Tweeter			
Left Rear Speaker			
Left Rear Tweeter			
Right Rear Speaker			
Right Rear Tweeter			
Center Channel			
Subwoofer			
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			

*Smart Starter Kill Relay*

Relay Type:	n/a
Part #:	n/a
OE Relay Part #:	
Location:	n/a

<b>Notes:</b>
n/a

<b>Alternate Part Notes:</b>
n/a

*Immobilizer Bypass Module*

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<b>Required:</b>	<b>Yes</b>
<b>Type:</b>	<b>EWS III</b>
<b>Part #:</b>	<b>556UW</b>
<b>Alternate Part #'s:</b>	<b>DesignTech 20402, DesignTech 29402</b>

<b>Notes:</b>

*Additional Wiring Notes*

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Item	Note
<b>Parking Lights (-)</b>	Cutting this wire turns on the parking lights. Use a relay to interrupt the wire to flash the parking lights. See Tech Doc 1055 for wiring information.
<b>Left Front Window (Up/Down)</b>	Extended triggers on the door lock wires will roll the windows up/down and open/close the sunroof. Use validity channels to control.
<b>Sun Roof (Open/Close)</b>	Extended triggers on the door lock wires will roll the windows up/down and open/close the sunroof. Use validity channels to control.