

## 2009 BMW 1 Series (E81/E82/E87/E88)



## Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red/green (40A)	+	Footwell Module in driver kick, 51 pin plug (X14260), pin 2
<b>Second 12 Volts</b>	red/purple (40A)	+	Footwell Module, 51 pin plug (X14261), pin 34
<b>Starter</b>	black (for starter kill only)	+ low curr	Car Access System under driver dash, 41 pin plug, pin 22
<b>Second Starter</b>	N/A		
<b>Ignition</b>	green (for ignition sense only)	+ low curr	Car Access System under driver dash, 41 pin plug, pin 8
<b>Second Ignition</b>	N/A		
<b>Third Ignition</b>	N/A		
<b>Accessory</b>	N/A		
<b>Second Accessory</b>	N/A		
<b>Third Accessory</b>	N/A		
<b>Key Sense</b>	N/A		
<b>Data Bus</b>	IMMOBILIZER AND IGNITION INTERFACE REQUIRED FOR RS		
<b>Can Bus High</b>	orange/green	data	Footwell Module in driver kick, 51 pin plug (X14260), pin 46
<b>Can Bus Low</b>	green	data	Footwell Module in driver kick, 51 pin plug (X14260), pin 45
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	yellow/red (center dash switch)	-	Car Access System under driver dash, 41 pin plug, pin 29
<b>Power Unlock</b>	same as power lock		
<b>Lock Motor</b>	white or black	5 wire	driver kick or pass dash fuse box ECU, 47 pin plug, pin 36 or 14
<b>Unlock Motor</b>	blue	5 wire	driver kick or pass dash fuse box ECU, 47 pin plug, pin 18
<b>Disarm Defeat</b>	blue	5 wire	passenger kick or pass dash fuse box ECU, 47 pin plug, pin 19
<b>Parking Lights (+)</b>	black/green (LF); black/blue (RF)	+	Footwell Mod, 51P plug (X14261), pin 50; 51P plug (X14260), pin 8
<b>Parking Lights (-)</b>	black	-	Footwell Module in driver kick, 26 pin plug, pin 1
<b>Hazards</b>	brown/blue	-	Footwell Module in driver kick, 26 pin plug, pin 18
<b>Turn Signal (Left)</b>	blue/green (F); blue/green (R)	+	Footwell Mod, 51P plug (X14260), pin 13; 51P plug (X14261), pin 45

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DirectWire Vehicle Information - 2/25/2014 6:15:01 AM Turn Signal (Right)	blue/brown (F); blue/brown (R)	+	Footwell Mod, 51P plug (X14261), pin 40; 51P plug (X14260), pin 12
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## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	yellow/green (L); yellow/blue (R)	+	Footwell Mod, 51P plug (X14260), pin 6; 51P plug (X14261), pin 38
<b>AutoLights</b>			
<b>Reverse Light</b>	black/purple	+	Footwell Module in driver kick, 51 pin plug (X14261), pin 47
<b>Left Front Door Trigger</b>	brown/gray/white	-	Footwell Module in driver kick, 51 pin plug (X14261), pin 24
<b>Right Front Door Trigger</b>	brown/gray/yellow	-	Footwell Module, 51 pin plug (X14261), pin 13
<b>Left Rear Door Trigger</b>	brown/gray	-	Footwell Module, 51 pin plug (X14261), pin 26
<b>Right Rear Door Trigger</b>	brown/white	-	Footwell Module, 51 pin plug (X14261), pin 15
<b>Dome Supervision</b>	red/blue (without Roof Function Cntrl Center only)	+	Footwell Module in driver kick, 51 pin plug (X14260), pin 35
<b>Trunk/Hatch Pin</b>	gray/brown	-	passenger dash fuse box ECU, 54 pin plug, pin 11
<b>Rear Glass Pin</b>	brown/yellow	-	passenger dash fuse box ECU, 54 pin plug, pin 50
<b>Hood Pin</b>	purple/green	-	Car Access System under driver dash, 41 pin plug, pin 38
<b>Trunk Hatch/Release</b>	gray/brown	-	Car Access System under driver dash, 41 pin plug, pin 39
<b>Trunk Release Motor</b>	gray/green (trunk/hatch); brown/red (glass; wagon)	5 wire	passenger dash fuse box ECU, 47 pin plug, pins 12, 39
<b>Fuel Door Release</b>	unlocks along with driver door		
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>	N/A		
<b>Factory Alarm Arm</b>	black/blue (driver door key lock)	-	Footwell Module in driver kick, 51 pin plug (X14261), pin 42
<b>Factory Alarm Disarm</b>	white/black (driver door key unlock)	-	Footwell Module in driver kick, 51 pin plug (X14261), pin 46
<b>Disarm No Unlock</b>			
<b>Trunk Alarm Shunt</b>	N/A		
<b>Tachometer</b>	black	ac	data link connector, 16 pin plug, pin 9
<b>Wait to Start</b>	N/A		
<b>Neutral Safety</b>	N/A		
<b>Clutch Pedal</b>	blue/black	-	Car Access Sys under dr dash, 41 pin plug, pin 41
<b>Fuel Pump</b>	red/white	+	fuel pump under right rear seat
<b>Rear Defroster</b>	black	+ latched	passenger dash fuse box, plug (X11006), pin 6
<b>Mirror Defroster</b>	green/yellow (L), green/yellow (R)	5 wire	passenger dash fuse box ECU, 47 pin plug, pins 29, 32
<b>Left Front Heated Seat</b>			

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## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	yellow/purple or yellow/red	ac	Car Access System under driver dash, 41 pin plug, pin 31
Brake Wire	brown/gray (functions with ignition on only)	+	brake switch or Car Access System under driver dash, 41 pin plug, pin 32
Parking Brake	blue/brown/yellow	-	parking brake sw or passenger dash fuse box ECU, 54 pin plug, pin 13
Horn Trigger	purple/blue	+	passenger dash fuse box, plug (X11007), pin 6
Wipers	black/green (L), black/brown (H)	+	passenger dash fuse box, plug (X11010), pins 7, 8
Left Front Window (Up/Down)	use factory alarm arm/disarm		
Right Front Window (Up/Down)	see left front window		
Left Rear Window (Up/Down)	see left front window		
Right Rear Window (Up/Down)	see left front window		
Sun Roof (Open/Close)	use factory alarm arm/disarm		
Sun Roof (Limit/Close)	N/A		
Memory Seat 1			
Memory Seat 2			
Memory Seat 3			
Radio 12V	red/green	+	radio, 16 pin plug, pin 15
Radio Ground	brown	-	radio, 16 pin plug, pin 12
Radio Ignition	(CAN BUS)		
Radio Illumination	gray/red (dimmer)	+	radio, 16 pin plug, pin 14
Factory Amp Turn-on	same as power antenna (HiFi); (MOST BUS, Top HiFi)		
Power Antenna	black	+	radio, 16 pin plug, pin 13
Left Front Speaker (+/-)	blue/white - blue/brown or yellow/red - brown/org	+,-	radio, 16 pin plug, pins 3 - 7
Right Front Speaker (+/-)	blue/black - blue/brown or blue/red - brown/orange	+,-	radio, 16 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	yellow/red - yellow/brown or yellow/blk - brn/org	+,-	radio, 16 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	blue/green - blue/brown or blue/black - brown/org	+,-	radio, 16 pin plug, pins 1 - 5
Center Channel (+/-)	black/white - black/brown	+,-	amplifier in left side of trunk, 20 pin plug, pins 5 - 15
Subwoofer (+/-)	red/wht - brown/yel (L), red/blue - brown/wht (R)	+,-	amplifier, 42 pin plug, pins 4-3; 23-22, or 20 pin plug, pins 8-18; 6-16
Aux. Audio Input Left (+/-)	white - (shield)	+,-	radio, 12 pin plug, pins 2 - 8
Aux. Audio Input Right (+/-)	gray - (shield)	+,-	radio, 12 pin plug, pins 7 - 8

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DirectWire Vehicle Information - 2/25/2014 6:15:01 AM			
RSE Video (+/-)			
RSE Audio Left (+/-)			
RSE Audio Right (+/-)			
Satellite Radio 12 Volts	red/blue	+	Sat Radio in left side of trunk, 3 pin plug, pin 1
Satellite Radio Ground	brown	-	Sat Radio in left side of trunk, 3 pin plug, pin 3
Satellite Radio Ignition	(MOST BUS)		
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	(MOST BUS)		
Satellite Audio Right (+/-)	(MOST BUS)		

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*What Fits*

Item	Size	Depth	Location
<b>Headunit</b>	irregular		center of dash
<b>Left Front Speaker</b>	3.9		left front door
<b>Left Front Tweeter</b>	1		left front door
<b>Right Front Speaker</b>	3.9		right front door
<b>Right Front Tweeter</b>	1		right front door
<b>Left Rear Speaker</b>	3.9		left rear deck or side panel
<b>Left Rear Tweeter</b>	1		left rear deck or side panel
<b>Right Rear Speaker</b>	3.9		right rear deck or side panel
<b>Right Rear Tweeter</b>	1		right rear deck or side panel
<b>Center Channel</b>	3.9		top center of dash
<b>Subwoofer</b>	8.5		under front seats
<b>Left Front Headrest</b>			
<b>Right Front Headrest</b>			
<b>Left Right Headrest</b>			
<b>Right Rear Headrest</b>			
<b>Satellite Radio Tuner</b>			left side of trunk

*Additional Wiring Notes*

Item	Note
<b>Trunk Hatch/Release</b>	On the wagons, the rear glass release is brown/red (-) at the passenger dash fuse box ECU, 54 pin plug, pin 32.
<b>Parking Lights (+)</b>	The LR - RR are gray/purple - gray/yellow at the Footwell Module in driver kick, 51 pin plug (X14260), pins 16 - 18.
<b>Left Front Speaker (+/-)</b>	On models with amplifier, the speaker wires are blue/white - blue/brown at the amplifier in left side of trunk, 42 pin plug, pins 33 - 34, or 20 pin plug, pins 19 - 9.
<b>Right Front Speaker (+/-)</b>	On models with amplifier, the speaker wires are blue/black - blue/brown at the amplifier in left side of trunk, 42 pin plug, pins 11 - 12, or 20 pin plug, pins 17 - 7.
<b>Left Rear Speaker (+/-)</b>	On models with amplifier, the side panel speaker wires are yellow/red - yellow/brown at the amplifier in left side of trunk, 42 pin plug, pins 31 - 32, or 20 pin plug, pins 1 - 11. The rear speaker wires are yellow/red - yellow/brown at the amplifier, 20 pin plug, pins 14 - 4.
<b>Right Rear Speaker (+/-)</b>	On models with amplifier, the side panel speaker wires are blue/green - blue/brown at the amplifier in left side of trunk, 42 pin plug, pins 13 - 21, or 20 pin plug, pins 12 - 2. The rear speaker wires are brown/green - blue/brown at the amplifier, 20 pin plug, pins 13 - 3.