

## 2009 BMW 3 Series (E90/91/92/93)



## Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red/green (40A), red/purple (40A)	+	FRM, 51 pin plug (X14260), pin 2; 51 pin plug (X14261), pin 34
<b>Second 12 Volts</b>	red (30A), red/yellow (30A)	+	FRM, 51 pin plug (X14261), pins 1 and 3
<b>Starter</b>	black (for starter kill only)	+ low curr	CAS, 41 pin plug (X13376), pin 22
<b>Second Starter</b>	N/A		
<b>Ignition</b>	green (for ignition sense only)	+ low curr	CAS, 41 pin plug (X13376), 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>	use KIBMW interface module		
<b>Can Bus High</b>	orange/green	data	FRM, 51 pin plug (X14260), pin 46
<b>Can Bus Low</b>	green	data	FRM, 51 pin plug (X14260), pin 45
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	yellow/red	-	central lock switch or CAS, 41 pin plug (X13376), pin 29
<b>Power Unlock</b>	same as power lock		
<b>Lock Motor</b>	white or black	5 wire	driver kick or JBE, 47 pin plug (X14270), pin 36 or 14
<b>Unlock Motor</b>	blue	5 wire	driver kick or JBE, 47 pin plug (X14270), pin 18
<b>Disarm Defeat</b>	blue	5 wire	passenger kick or JBE, 47 pin plug (X14270), pin 19
<b>Parking Lights (+)</b>	black/green (LF), black/blue (RF)	+	FRM, 51 pin plug (X14261), pin 50; 51 pin plug (X14260), pin 8
<b>Parking Lights (-)</b>	black	-	FRM, 26 pin plug (X14259), pin 1
<b>Hazards</b>	brown/blue	-	hazard switch or FRM, 26 pin plug (X14259), pin 18
<b>Turn Signal (Left)</b>	blue/green (F), blue/green (R)	+	FRM, 51 pin plug (X14260), pin 13; 51 pin plug (X14261), pin 45
<b>Turn Signal (Right)</b>	blue/brown (F), blue/brown (R)	+	FRM, 51 pin plug (X14261), pin 40; 51 pin plug (X14260), pin 12

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	yellow/green (L), yellow/blue (R)	+	FRM, 51 pin plug (X14260), pin 6; 51 pin plug (X14261), pin 38
<b>AutoLights</b>			
<b>Reverse Light</b>	black/purple	+	FRM, 51 pin plug (X14261), pin 47
<b>Left Front Door Trigger</b>	brown/white to brown/gray/white	-	driver kick or FRM, 51 pin plug (X14261), pin 24
<b>Right Front Door Trigger</b>	brown/gray to brown/gray/yellow	-	passenger kick or FRM, 51 pin plug (X14261), pin 13
<b>Left Rear Door Trigger</b>	brown/gray	-	driver kick or FRM, 51 pin plug (X14261), pin 26
<b>Right Rear Door Trigger</b>	brown/white	-	passenger kick or FRM, 51 pin plug (X14261), pin 15
<b>Dome Supervision</b>	red/blue (without Roof Function Cntrl Center only)	+	FRM, 51 pin plug (X14260), pin 35
<b>Trunk/Hatch Pin</b>	gray/brown	-	JBE, 54 pin plug (X14271), pin 11
<b>Rear Glass Pin</b>	brown/yellow	-	JBE, 54 pin plug (X14271), pin 50
<b>Hood Pin</b>	purple/green	-	hood switch or CAS, 41 pin plug (X13376), pin 38
<b>Trunk Hatch/Release</b>	gray/brown	-	release switch or CAS, 41 pin plug (X13376), pin 39
<b>Trunk Release Motor</b>	gray/green	5 wire	JBE, 47 pin plug (X14270), pin 12
<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 kick or FRM, 51 pin plug (X14261), pin 42
<b>Factory Alarm Disarm</b>	white/black	-	driver kick or FRM, 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>	brown/black (in), blue/black (out)	-	clutch switch, 4 pin plug, pins 1 and 4
<b>Fuel Pump</b>	red/white	+	fuel pump under right rear seat
<b>Rear Defroster</b>	black	+ latched	Junction Box, plug (X11006), pin 6
<b>Mirror Defroster</b>	green/yellow (L), green/yellow (R)	5 wire	JBE, 47 pin plug (X14270), pins 29 and 32
<b>Left Front Heated Seat</b>			
<b>Right Front Heated Seat</b>			

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	yellow/red or yellow/purple	ac	CAS, 41 pin plug (X13376), pin 31
Brake Wire	brown/gray (functions with ignition on only)	+	brake switch or CAS, 41 pin plug (X13376), pin 32
Parking Brake	blue/brown/yellow	-	parking brake switch or JBE, 54 pin plug (X14271), pin 13
Horn Trigger	purple/blue	+	Junction Box, plug (X11007), pin 6
Wipers	black/green (L), black/brown (H)	+	Junction Box, plug (X11010), pins 7 and 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		
Power Antenna	black or white/purple	+	radio, 16 pin plug, pin 13
Left Front Speaker (+/-)	blue/white - blue/brown or yellow/red - brown/org	+,-	radio, 16 pin plug, pins 3 and 7
Right Front Speaker (+/-)	blue/black - blue/brown or blue/red - brown/orange	+,-	radio, 16 pin plug, pins 2 and 6
Left Rear Speaker (+/-)	yellow/red - yellow/brown or yellow/blk - brn/org	+,-	radio, 16 pin plug, pins 4 and 8
Right Rear Speaker (+/-)	blue/green - blue/brown or blue/black - brown/org	+,-	radio, 16 pin plug, pins 1 and 5
Center Channel (+/-)	black/white - black/brown	+,-	amplifier, 20 pin plug, pins 5 and 15
Subwoofer (+/-)	red/wht - brown/yel (L), red/blue - brown/wht (R)	+,-	amplifier, 42 pin plug, pins 4 and 3 (L), 23 and 22 (R)
Aux. Audio Input Left (+/-)	white - (shield) or black - (shield)	+,-	radio, 12 pin plug, pins 2 and 8
Aux. Audio Input Right (+/-)	gray - (shield) or yellow - (shield)	+,-	radio, 12 pin plug, pins 7 and 8
RSE Video (+/-)			
RSE Audio Left (+/-)			
RSE Audio Right (+/-)			

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DirectWire Vehicle Information - 10/23/2011 7:29:31 AM			
Satellite Radio 12 Volts	red/blue	+	Satellite Receiver, 3 pin plug, pin 1
Satellite Radio Ground	brown	-	Satellite Receiver, 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 door; left rear deck
<b>Left Rear Tweeter</b>	1		left rear door; left rear deck
<b>Right Rear Speaker</b>	3.9		right rear door; right rear deck
<b>Right Rear Tweeter</b>	1		right rear door; right rear deck
<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>			under luggage compartment floor

*Additional Wiring Notes*

Item	Note
<b>Parking Lights (-)</b>	The FRM (Footwell Module) is in the driver kick.
<b>Can Bus High</b>	The FRM (Footwell Module) is in the driver kick. Also found at the CAS, 41 pin plug (X13376), pin 35. The CAS (Car Access System) is under the driver dash.
<b>Can Bus Low</b>	The FRM (Footwell Module) is in the driver kick. Also found at the CAS, 41 pin plug (X13376), pin 26. The CAS (Car Access System) is under the driver dash.
<b>Reverse Light</b>	The FRM (Footwell Module) is in the driver kick.
<b>Hazards</b>	The FRM (Footwell Module) is in the driver kick.
<b>Brake Wire</b>	The CAS (Car Access System) is under the driver dash.
<b>Parking Lights (+)</b>	The FRM (Footwell Module) is in the driver kick. The LR - RR wires are yellow/black - yellow/purple at the FRM, 51 pin plug (X14260), pins 16 and 18.
<b>Turn Signal (Left)</b>	The FRM (Footwell Module) is in the driver kick.
<b>Turn Signal (Right)</b>	The FRM (Footwell Module) is in the driver kick.
<b>Headlight</b>	The FRM (Footwell Module) is in the driver kick.
<b>Trunk Hatch/Release</b>	The CAS (Car Access System) is under the driver dash. On the wagons, the rear glass release is brown/red (-) at the JBE, 54 pin plug (X14271), pin 32. The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
<b>Trunk Release Motor</b>	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box. On the wagons, the rear glass release motor is brown/red (5 wire) at the JBE, 47 pin plug (X14270), pin 39.
<b>Trunk/Hatch Pin</b>	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
<b>12 Volts</b>	The FRM (Footwell Module) is in the driver kick.
<b>Second 12 Volts</b>	The FRM (Footwell Module) is in the driver kick.
<b>Starter</b>	The CAS (Car Access System) is under the driver dash. USE INTERFACE MODULE FOR REMOTE START!
<b>Lock Motor</b>	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
<b>Driver Unlock Motor</b>	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
<b>Passenger Unlock Motor</b>	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
<b>Hood Pin</b>	The CAS (Car Access System) is under the driver dash.
<b>Factory Alarm Arm</b>	The FRM (Footwell Module) is in the driver kick. Meter this wire while turning the key in the driver door key cylinder.
<b>Factory Alarm Disarm</b>	The FRM (Footwell Module) is in the driver kick. Meter this wire while turning the key in the driver door key cylinder.
<b>Left Front Door Trigger</b>	The FRM (Footwell Module) is in the driver kick.
<b>Right Front Door Trigger</b>	The FRM (Footwell Module) is in the driver kick.
<b>Left Rear Door Trigger</b>	The FRM (Footwell Module) is in the driver kick.
<b>Right Rear Door Trigger</b>	The FRM (Footwell Module) is in the driver kick.
<b>Ignition</b>	The CAS (Car Access System) is under the driver dash.
<b>Dome Supervision</b>	The FRM (Footwell Module) is in the driver kick. On vehicles with Roof Function Control Center it is CAN BUS controlled.
<b>Speed Sense</b>	The CAS (Car Access System) is under the driver dash.
<b>Mirror Defroster</b>	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
<b>Parking Brake</b>	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.

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