

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



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/green (40A), red/purple (40A)	+	FRM, 51 pin plug (X14260), pin 2; 51 pin plug (X14261), pin 34
Second 12 Volts	red (30A), red/yellow (30A)	+	FRM, 51 pin plug (X14261), pins 1 and 3
Starter	black (for starter kill only)	+ low curr	CAS, 41 pin plug (X13376), pin 22
Second Starter	N/A		
Ignition	green (for ignition sense only)	+ low curr	CAS, 41 pin plug (X13376), pin 8
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	N/A		
Second Accessory	N/A		
Third Accessory	N/A		
Key Sense	N/A		
Data Bus	use KIBMW interface module		
Can Bus High	orange/green	data	FRM, 51 pin plug (X14260), pin 46
Can Bus Low	green	data	FRM, 51 pin plug (X14260), pin 45
Can Bus Sw	N/A		
Power Lock	yellow/red	-	central lock switch or CAS, 41 pin plug (X13376), pin 29
Power Unlock	same as power lock		
Lock Motor	white or black	5 wire	driver kick or JBE, 47 pin plug (X14270), pin 36 or 14
Unlock Motor	blue	5 wire	driver kick or JBE, 47 pin plug (X14270), pin 18
Disarm Defeat	blue	5 wire	passenger kick or JBE, 47 pin plug (X14270), pin 19
Parking Lights (+)	black/green (LF), black/blue (RF)	+	FRM, 51 pin plug (X14261), pin 50; 51 pin plug (X14260), pin 8
Parking Lights (-)	black	-	FRM, 26 pin plug (X14259), pin 1
Hazards	brown/blue	-	hazard switch or FRM, 26 pin plug (X14259), pin 18
Turn Signal (Left)	blue/green (F), blue/green (R)	+	FRM, 51 pin plug (X14260), pin 13; 51 pin plug (X14261), pin 45
Turn Signal (Right)	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
Headlight	yellow/green (L), yellow/blue (R)	+	FRM, 51 pin plug (X14260), pin 6; 51 pin plug (X14261), pin 38
AutoLights			
Reverse Light	black/purple	+	FRM, 51 pin plug (X14261), pin 47
Left Front Door Trigger	brown/white to brown/gray/white	-	driver kick or FRM, 51 pin plug (X14261), pin 24
Right Front Door Trigger	brown/gray to brown/gray/yellow	-	passenger kick or FRM, 51 pin plg (X14261), pin 13
Left Rear Door Trigger	brown/gray	-	driver kick or FRM, 51 pin plug (X14261), pin 26
Right Rear Door Trigger	brown/white	-	passenger kick or FRM, 51 pin plg (X14261), pin 15
Dome Supervision	red/blue (without Roof Function Cntrl Center only)	+	FRM, 51 pin plug (X14260), pin 35
Trunk/Hatch Pin	gray/brown	-	JBE, 54 pin plug (X14271), pin 11
Rear Glass Pin	brown/yellow	-	JBE, 54 pin plug (X14271), pin 50
Hood Pin	purple/green	-	hood switch or CAS, 41 pin plug (X13376), pin 38
Trunk Hatch/Release	gray/brown	-	release switch or CAS, 41 pin plug (X13376), pin 39
Trunk Release Motor	gray/green	5 wire	JBE, 47 pin plug (X14270), pin 12
Fuel Door Release	unlocks along with driver door		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	black/blue	-	driver kick or FRM, 51 pin plug (X14261), pin 42
Factory Alarm Disarm	white/black	-	driver kick or FRM, 51 pin plug (X14261), pin 46
Disarm No Unlock			
Trunk Alarm Shunt	N/A		
Tachometer	black	ac	data link connector, 16 pin plug, pin 9
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	brown/black (in), blue/black (out)	-	clutch switch, 4 pin plug, pins 1 and 4
Fuel Pump	red/white	+	fuel pump under right rear seat
Rear Defroster	black	+ latched	Junction Box, plug (X11006), pin 6
Mirror Defroster	green/yellow (L), green/yellow (R)	5 wire	JBE, 47 pin plug (X14270), pins 29 and 32
Left Front Heated Seat			
Right Front Heated Seat			

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 - 10/17/2012 1:55:27 AM	red/blue		
Satellite Radio 12 Volts		+	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
Headunit	irregular		center of dash
Left Front Speaker	3.9		left front door
Left Front Tweeter	1		left front door
Right Front Speaker	3.9		right front door
Right Front Tweeter	1		right front door
Left Rear Speaker	3.9		left rear door; left rear deck
Left Rear Tweeter	1		left rear door; left rear deck
Right Rear Speaker	3.9		right rear door; right rear deck
Right Rear Tweeter	1		right rear door; right rear deck
Center Channel	3.9		top center of dash
Subwoofer	8.5		under front seats
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			under luggage compartment floor

Additional Wiring Notes

Item	Note
Parking Lights (-)	The FRM (Footwell Module) is in the driver kick.
Can Bus High	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.
Can Bus Low	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.
Reverse Light	The FRM (Footwell Module) is in the driver kick.
Hazards	The FRM (Footwell Module) is in the driver kick.
Brake Wire	The CAS (Car Access System) is under the driver dash.
Parking Lights (+)	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.
Turn Signal (Left)	The FRM (Footwell Module) is in the driver kick.
Turn Signal (Right)	The FRM (Footwell Module) is in the driver kick.
Headlight	The FRM (Footwell Module) is in the driver kick.
Trunk Hatch/Release	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.
Trunk Release Motor	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.
Trunk/Hatch Pin	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
12 Volts	The FRM (Footwell Module) is in the driver kick.
Second 12 Volts	The FRM (Footwell Module) is in the driver kick.
Starter	The CAS (Car Access System) is under the driver dash. USE INTERFACE MODULE FOR REMOTE START!
Lock Motor	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
Driver Unlock Motor	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
Passenger Unlock Motor	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
Hood Pin	The CAS (Car Access System) is under the driver dash.
Factory Alarm Arm	The FRM (Footwell Module) is in the driver kick. Meter this wire while turning the key in the driver door key cylinder.
Factory Alarm Disarm	The FRM (Footwell Module) is in the driver kick. Meter this wire while turning the key in the driver door key cylinder.
Left Front Door Trigger	The FRM (Footwell Module) is in the driver kick.
Right Front Door Trigger	The FRM (Footwell Module) is in the driver kick.
Left Rear Door Trigger	The FRM (Footwell Module) is in the driver kick.
Right Rear Door Trigger	The FRM (Footwell Module) is in the driver kick.
Ignition	The CAS (Car Access System) is under the driver dash.
Dome Supervision	The FRM (Footwell Module) is in the driver kick. On vehicles with Roof Function Control Center it is CAN BUS controlled.
Speed Sense	The CAS (Car Access System) is under the driver dash.
Mirror Defroster	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.
Parking Brake	The JBE (Junction Box Electronics) is behind the glove box, attached to the bottom of the Junction Box.

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