

2009 BMW X5 (E70)



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 (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 (+)	blue (LF), black/green (RF)	+	FRM, 51 pin plug (X14261), pin 50; 51 pin plug (X14260), pin 8
Parking Lights (-)	black	-	headlight switch or 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	yellow/brown	+	FRM, 51 pin plug (X14261), pin 47
Left Front Door Trigger	gray to brown/gray/yellow	-	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 50
Rear Glass Pin	N/A		
Hood Pin	purple/green	-	hood switch or CAS, 41 pin plug (X13376), pin 38
Trunk Hatch/Release	gray/yellow	-	release switch or JBE, 54 pin plug (X14271), pin 44
Trunk Release Motor	gray/green	5 wire	JBE, 47 pin plug (X14270), pin 39
Fuel Door Release	unlocks along with driver door		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	blue/red	-	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	N/A		
Fuel Pump	red/white or white/blue	+	fuel pump under left rear seat
Rear Defroster	black	+ latched	Junction Box, plug (X11003), pin 1
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/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			
Horn Trigger	purple/blue	+	Junction Box, plug (X11002), pin 9
Wipers	black/blue (L), black/brown (H)	+	Junction Box, plug (X11006), pins 9 and 10
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	+	radio, 16 pin plug, pin 13
Left Front Speaker (+/-)	red/white - brown/yellow or yellow/red - brown/org	+,-	radio, 16 pin plug, pins 3 and 7
Right Front Speaker (+/-)	red/blue - brown/white or blue/red - brown/org	+,-	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, 42 pin plug, pins 39 and 40, or 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 (+/-)			
Aux. Audio Input Right (+/-)			
RSE Video (+/-)			
RSE Audio Left (+/-)			
RSE Audio Right (+/-)			

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DirectWire Vehicle Information - 12/15/2011 3:22:20 AM	red/purple	+	Satellite Receiver, 3 pin plug, pin 1
Satellite Radio 12 Volts			
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 pillar
Left Rear Tweeter	1		left rear door; left rear pillar
Right Rear Speaker	3.9		right rear door; right rear pillar
Right Rear Tweeter	1		right rear door; right rear pillar
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			driver side of the luggage compartment

Additional Wiring Notes

Item	Note
Wipers	The Junction Box is behind the glove box.
Satellite Radio 12 Volts	If equipped, the Satellite Receiver is in the driver side of the luggage compartment.
Center Channel (+/-)	If equipped, the amplifier is in the driver side of the luggage compartment.
Subwoofer (+/-)	If equipped, the amplifier is in the driver side of the luggage compartment. On some models, they are in the 20 pin plug, pins 8 and 18 (L), 6 and 16 (R).
Left Front Speaker (+/-)	If equipped, the amplifier is in the driver side of the luggage compartment. On vehicles with amplifier, the speaker wires are blue/white - blue/brown at the amplifier, 42 pin plug, pins 33 and 34, or 20 pin plug, pins 19 and 9.
Right Front Speaker (+/-)	If equipped, the amplifier is in the driver side of the luggage compartment. On vehicles with amplifier, the speaker wires are blue/black - blue/brown at the amplifier, 42 pin plug, pins 11 and 12, or 20 pin plug, pins 17 and 7.
Left Rear Speaker (+/-)	If equipped, the amplifier is in the driver side of the luggage compartment. On vehicles with amplifier, the door speaker wires are yellow/red - yellow/brown at the amplifier, 42 pin plug, pins 31 and 32, or 20 pin plug, pins 14 and 4. The rear pillar speaker wires are yellow/red - yellow/brown at the amplifier, 20 pin plug, pins 1 and 11.
Right Rear Speaker (+/-)	If equipped, the amplifier is in the driver side of the luggage compartment. On vehicles with amplifier, the door speaker wires are blue/green - blue/brown at the amplifier, 42 pin plug, pins 13 and 21, or 20 pin plug, pins 13 and 3. The rear pillar speaker wires are blue/green - blue/brown at the amplifier, 20 pin plug, pins 12 and 2.
Rear Defroster	The Junction Box is behind the glove box.
Power Lock	The CAS (Car Access System) is under the driver dash.
Trunk Hatch/Release	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.
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.
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.

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