

## 2006 BMW X5 (E53)



## Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red (80A on 3.0L) (5A on 4.4L and 4.8L)	+	ignition switch, 11 pin plug, pin 5
<b>Second 12 Volts</b>	red (50A)	+	ignition switch, 11 pin plug, pin 6
<b>Starter</b>	black/yellow	+	ignition switch, 11 pin plug, pin 8
<b>Second Starter</b>	N/A		
<b>Ignition</b>	green	+	ignition switch, 11 pin plug, pin 9
<b>Second Ignition</b>	purple/black (needs to be powered before ignition)	+	ignition switch, 11 pin plug, pin 2
<b>Third Ignition</b>	purple/white	+	ignition switch, 11 pin plug, pin 10
<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>	white/red/yellow (instrument bus)	data	Immobilizer Control Unit, 13 pin plug, pin 13
<b>Can Bus High</b>	yellow/black (powertrain bus)	data	instrument cluster, 26 pin plug, pin 24 or 8
<b>Can Bus Low</b>	yellow/brown (powertrain bus)	data	instrument cluster, 26 pin plug, pin 26 or 9
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	yellow/red	-	General Module, white 26 pin plug, pin 24
<b>Power Unlock</b>	same as power lock		
<b>Lock Motor</b>	white or black	5 wire	General Module, black 20 pin plug, pin 13 or 6
<b>Unlock Motor</b>	blue	5 wire	Driver Door Module, 12 pin plug, pin 12
<b>Disarm Defeat</b>	blue	5 wire	General Module, black 20 pin plug, pin 14
<b>Parking Lights (+)</b>	gray/green (LF); gray/blue (RF)	+	Light Module, black 54 pin plug, pin 18; black 14 pin plug, pin 3
<b>Parking Lights (-)</b>	black (interrupt to turn on parking lights)	-	headlight switch or Light Module, black 54 pin plug, pin 51
<b>Hazards</b>	brown/blue	-	Light Module, black 54 pin plug, pin 7
<b>Turn Signal (Left)</b>	blue/green (F); blue/green (R)	+	Light Module, white 15 pin plug, pin 11; black 14 pin plug, pin 8
<b>Turn Signal (Right)</b>	blue/brown (F); blue/brown (R)	+	Light Module, black 14 pin plug, pin 6; white 15 pin plug, pin 12

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	yellow/green (L); yellow/blue (R)	+	Light Module, black 14 pin plug, pin 11; white 15 pin plug, pin 3
<b>AutoLights</b>			
<b>Reverse Light</b>	blue/yellow	+	Light Module, white 15 pin plug, pin 10
<b>Left Front Door Trigger</b>	brown/white	-	Driver Door Module, 12 pin plug, pin 11
<b>Right Front Door Trigger</b>	brown/white	-	Passenger Door Module, 12 pin plug, pin 11
<b>Left Rear Door Trigger</b>	brown/gray	-	General Module, white 26 pin plug, pin 7
<b>Right Rear Door Trigger</b>	brown/white	-	General Module, white 26 pin plug, pin 6
<b>Dome Supervision</b>	red/blue	+	General Module, black 20 pin plug, pin 20
<b>Trunk/Hatch Pin</b>	gray/white	- N.C.	General Module, white 26 pin plug, pin 19
<b>Rear Glass Pin</b>	N/A		
<b>Hood Pin</b>	purple/green	-	General Module, white 26 pin plug, pin 19
<b>Trunk Hatch/Release</b>	gray/brown	-	General Module, black 26 pin plug, pin 11
<b>Trunk Release Motor</b>	yellow/brown (top), brown/yellow (bottom)	5 wire	General Module, black 20 pin plug, pins 3 and 7
<b>Fuel Door Release</b>	unlocks along with rear doors		
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>	N/A		
<b>Factory Alarm Arm</b>	blue/red	-	Driver Door Module, 12 pin plug, pin 4
<b>Factory Alarm Disarm</b>	white/black (double pulse)	-	Driver Door Module, 12 pin plug, pin 3
<b>Disarm No Unlock</b>	Transponder and ignition		
<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>	white/blue	+	dash fuse box, rear, black 10 pin plug, pin 8
<b>Rear Defroster</b>	blue/brown	- latched	Heating and A/C Control Module, 26 pin plug, pin 7
<b>Mirror Defroster</b>	N/A		
<b>Left Front Heated Seat</b>	green/yellow	5 wire	center console switch, pin 1
<b>Right Front Heated Seat</b>	green/yellow	5 wire	center console switch, pin 13

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	black/white	ac	instrument cluster, 26 pin plug, pin 14, or 18 pin plug, pin 3
Brake Wire	brown/gray (functions with ignition on only)	+	brake switch, 4 pin plug, pin 3
Parking Brake	blue/brown/yellow	-	parking brake switch
Horn Trigger	purple/gray	+	dash fuse box, rear, black 10 pin plug, pin 3
Wipers	brown/blue	-	General Module, black 26 pin plug, pin 15
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	switch part of module		
Memory Seat 2	switch part of module		
Memory Seat 3	switch part of module		
Radio 12V	red/green	+	radio, 16 pin plug, pin 15
Radio Ground	brown	-	radio, 16 pin plug, pin 12
Radio Ignition	purple/white	+	radio, 16 pin plug, pin 16
Radio Illumination	gray/red (dimmer)	+	radio, 16 pin plug, pin 14
Factory Amp Turn-on	same as power antenna		
Power Antenna	white	+	radio, 16 pin plug, pin 13
Left Front Speaker (+/-)	yellow/red - yellow/brown or yellow/red - brn/org	+,-	radio, 8 pin plug, pins 3 and 7
Right Front Speaker (+/-)	blue/red - blue/brown or blue/red - brown/orange	+,-	radio, 8 pin plug, pins 2 and 6
Left Rear Speaker (+/-)	yellow/purple - yellow/gry or yellow/blk - brn/org	+,-	radio, 8 pin plug, pins 4 and 8
Right Rear Speaker (+/-)	blue/purple - blue/gray or blue/black - brown/org	+,-	radio, 8 pin plug, pins 1 and 5
Center Channel (+/-)	N/A		
Subwoofer (+/-)		+,-	amplifier, 15 pin plug (Top HIFI)
Aux. Audio Input Left (+/-)	yellow - brown	+,-	radio, 12 pin plug, pins 3 and 10
Aux. Audio Input Right (+/-)	black - brown	+,-	radio, 12 pin plug, pins 4 and 10
RSE Video (+/-)	N/A		
RSE Audio Left (+/-)	white/red - white/brown (CD changer audio)		radio, 12 pin plug, pins 8 and 2
RSE Audio Right (+/-)	white/blue - white/brown (CD changer audio)		radio, 12 pin plug, pins 9 and 2
Satellite Radio 12 Volts			

Copyright © 2011 Directed Electronics. All Rights Reserved. DirectWire and its vehicle information are for the sole use of authorized Directed Electronics personnel and its participating dealers and distributors. The information contained on these pages may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited.

DirectWire Vehicle Satellite Radio Ground	Information - 9/22/2011 2:48:34 AM		
Satellite Radio Ignition			
Satellite Radio Antenna			
Satellite Audio Left (+/-)			
Satellite Audio Right (+/-)			

Copyright © 2011 Directed Electronics. All Rights Reserved. DirectWire and its vehicle information are for the sole use of authorized Directed Electronics personnel and its participating dealers and distributors. The information contained on these pages may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited.

*What Fits*

Item	Size	Depth	Location
<b>Headunit</b>	irregular		center of dash
<b>Left Front Speaker</b>	6.5		left front door
<b>Left Front Tweeter</b>			left front door (tweeter), front dash (midrange)
<b>Right Front Speaker</b>	6.5		right front door
<b>Right Front Tweeter</b>			right front door (tweeter), front dash (midrange)
<b>Left Rear Speaker</b>	6.5		left rear door
<b>Left Rear Tweeter</b>			left rear door (midrange)
<b>Right Rear Speaker</b>	6.5		right rear door
<b>Right Rear Tweeter</b>			right rear door (midrange)
<b>Center Channel</b>	N/A		
<b>Subwoofer</b>			right side of luggage compartment
<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>			

*Additional Wiring Notes*

Item	Note
<b>Data Bus</b>	The Immobilizer Control Unit is above the driver kick. The security light wire is gray/black/yellow (-) at the General Module, black 26 pin plug, pin 19. The General Module is behind the glove box.
<b>Reverse Light</b>	The Light Module is in the passenger kick.
<b>Hazards</b>	The Light Module is in the passenger kick.
<b>Parking Lights (+)</b>	The Light Module is in the passenger kick. The LR - RR wires are black/green - black/white at the Light Module, white 15 pin plug, pins 5 and 13.
<b>Turn Signal (Left)</b>	The Light Module is in the passenger kick.
<b>Turn Signal (Right)</b>	The Light Module is in the passenger kick.
<b>Parking Lights (-)</b>	The Light Module is in the passenger kick.
<b>Headlight</b>	The Light Module is in the passenger kick.
<b>Dome Supervision</b>	The General Module is behind the glove box.
<b>Left Front Speaker (+/-)</b>	If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the high range wires are yellow/red - yellow/brown at the amplifier, 42 pin plug, pins 33 and 34 (HIFI), or 26 pin plug, pins 14 and 15 (Top HIFI). The mid range wires are gray/black - gray/brown at the amplifier, 42 pin plug, pins 40 and 39 (HIFI), or 26 pin plug, pins 5 and 10 (Top HIFI). The low range wires are blue/white - blue/brown at the amplifier, 42 pin plug, pins 4 and 3 (HIFI), or 26 pin plug, pins 1 and 2 (Top HIFI).
<b>Right Front Speaker (+/-)</b>	If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the high range wires are blue/black - blue/brown at the amplifier, 42 pin plug, pins 11 and 12 (HIFI), or 26 pin plug, pins 12 and 25 (Top HIFI). The mid range wires are blue/yellow - brown at the amplifier, 42 pin plug, pins 42 and 41 (HIFI), or 26 pin plug, pins 9 and 4 (Top HIFI). The low range wires are blue/red - blue/brown at the amplifier, 42 pin plug, pins 23 and 22 (HIFI), or 26 pin plug, pins 13 and 26 (Top HIFI).
<b>Left Rear Speaker (+/-)</b>	If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the high/mid range wires are yellow/black - yellow/gray at the amplifier, 42 pin plug, pins 31 and 32 (HIFI), or 26 pin plug, pins 19 and 16 (Top HIFI). The low range wires are yellow - brown at the amplifier, 42 pin plug, pins 2 and 1 (HIFI), or 15 pin plug, pins 3 and 11 (Top HIFI).
<b>Right Rear Speaker (+/-)</b>	If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the high/mid range wires are white/black - white/brown at the amplifier, 42 pin plug, pins 13 and 21 (HIFI), or 26 pin plug, pins 11 and 24 (Top HIFI). The low range wires are blue - brown at the amplifier, 42 pin plug, pins 25 and 24 (HIFI), or 15 pin plug, pins 12 and 5 (Top HIFI).
<b>Power Lock</b>	The General Module is behind the glove box.
<b>Lock Motor</b>	The General Module is behind the glove box.
<b>Passenger Unlock Motor</b>	The General Module is behind the glove box.
<b>Left Rear Door Trigger</b>	The General Module is behind the glove box.
<b>Right Rear Door Trigger</b>	The General Module is behind the glove box.
<b>Trunk/Hatch Pin</b>	The General Module is behind the glove box.
<b>Hood Pin</b>	The General Module is behind the glove box.
<b>Trunk Release Motor</b>	The General Module is behind the glove box.
<b>Factory Alarm Arm</b>	Meter this wire while turning the key in the driver door key cylinder.
<b>Factory Alarm Disarm</b>	Meter this wire while turning the key in the driver door key cylinder.
<b>Trunk Hatch/Release</b>	The General Module is behind the glove box.
<b>Subwoofer (+/-)</b>	If equipped, the amplifier is in the left side of the luggage compartment.
<b>Radio 12V</b>	The radio is in the luggage compartment floor.
<b>Wipers</b>	The General Module is behind the glove box.