

2004 BMW X5 (E53)



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (80A on 3.0L) (5A on 4.4L and 4.8L)	+	ignition switch, 11 pin plug, pin 5
Second 12 Volts	red (50A)	+	ignition switch, 11 pin plug, pin 6
Starter	black/yellow	+	ignition switch, 11 pin plug, pin 8
Second Starter	N/A		
Ignition	green	+	ignition switch, 11 pin plug, pin 9
Second Ignition	purple/black (needs to be powered before ignition)	+	ignition switch, 11 pin plug, pin 2
Third Ignition	purple/white	+	ignition switch, 11 pin plug, pin 10
Accessory	N/A		
Second Accessory	N/A		
Third Accessory	N/A		
Key Sense	N/A		
Data Bus	white/red/yellow (instrument bus)	data	Immobilizer Control Unit, 13 pin plug, pin 13
Can Bus High	yellow/black (powertrain bus)	data	instrument cluster, 26 pin plug, pin 24 or 8
Can Bus Low	yellow/brown (powertrain bus)	data	instrument cluster, 26 pin plug, pin 26 or 9
Can Bus Sw	N/A		
Power Lock	yellow/red	-	General Module, white 26 pin plug, pin 24
Power Unlock	same as power lock		
Lock Motor	white or black	5 wire	General Module, black 20 pin plug, pin 13 or 6
Unlock Motor	blue	5 wire	Driver Door Module, 12 pin plug, pin 12
Disarm Defeat	blue	5 wire	General Module, black 20 pin plug, pin 14
Parking Lights (+)	gray/green (LF); gray/blue (RF)	+	Light Module, black 54 pin plug, pin 18; black 14 pin plug, pin 3
Parking Lights (-)	black (interrupt to turn on parking lights)	-	headlight switch or Light Module, black 54 pin plug, pin 51
Hazards	brown/blue	-	Light Module, black 54 pin plug, pin 7
Turn Signal (Left)	blue/green (F); blue/green (R)	+	Light Module, white 15 pin plug, pin 11; black 14 pin plug, pin 8
Turn Signal (Right)	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
Headlight	yellow/green (L); yellow/blue (R)	+	Light Module, black 14 pin plug, pin 11; white 15 pin plug, pin 3
AutoLights			
Reverse Light	blue/yellow	+	Light Module, white 15 pin plug, pin 10
Left Front Door Trigger	brown/white	-	Driver Door Module, 12 pin plug, pin 11
Right Front Door Trigger	brown/white	-	Passenger Door Module, 12 pin plug, pin 11
Left Rear Door Trigger	brown/gray	-	General Module, white 26 pin plug, pin 7
Right Rear Door Trigger	brown/white	-	General Module, white 26 pin plug, pin 6
Dome Supervision	red/blue	+	General Module, black 20 pin plug, pin 20
Trunk/Hatch Pin	gray/white	- N.C.	General Module, white 26 pin plug, pin 19
Rear Glass Pin	N/A		
Hood Pin	purple/green	-	General Module, white 26 pin plug, pin 19
Trunk Hatch/Release	gray/brown	-	General Module, black 26 pin plug, pin 11
Trunk Release Motor	yellow/brown (top), brown/yellow (bottom)	5 wire	General Module, black 20 pin plug, pins 3 and 7
Fuel Door Release	unlocks along with rear doors		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	blue/red	-	Driver Door Module, 12 pin plug, pin 4
Factory Alarm Disarm	white/black (double pulse)	-	Driver Door Module, 12 pin plug, pin 3
Disarm No Unlock	Transponder and ignition		
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	white/blue	+	dash fuse box, rear, black 10 pin plug, pin 8
Rear Defroster	blue/brown	- latched	Heating and A/C Control Module, 26 pin plug, pin 7
Mirror Defroster	N/A		
Left Front Heated Seat	green/yellow	5 wire	center console switch, pin 1
Right Front Heated Seat	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			

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DirectWire Vehicle Satellite Radio Ground	Information - 8/31/2012 12:25:12 AM		
Satellite Radio Ignition			
Satellite Radio Antenna			
Satellite Audio Left (+/-)			
Satellite Audio Right (+/-)			

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What Fits

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

Additional Wiring Notes

Item	Note
Data Bus	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.
Reverse Light	The Light Module is in the passenger kick.
Hazards	The Light Module is in the passenger kick.
Parking Lights (+)	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.
Turn Signal (Left)	The Light Module is in the passenger kick.
Turn Signal (Right)	The Light Module is in the passenger kick.
Parking Lights (-)	The Light Module is in the passenger kick.
Headlight	The Light Module is in the passenger kick.
Dome Supervision	The General Module is behind the glove box.
Left Front Speaker (+/-)	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).
Right Front Speaker (+/-)	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).
Left Rear Speaker (+/-)	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).
Right Rear Speaker (+/-)	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).
Power Lock	The General Module is behind the glove box.
Lock Motor	The General Module is behind the glove box.
Passenger Unlock Motor	The General Module is behind the glove box.
Left Rear Door Trigger	The General Module is behind the glove box.
Right Rear Door Trigger	The General Module is behind the glove box.
Trunk/Hatch Pin	The General Module is behind the glove box.
Hood Pin	The General Module is behind the glove box.
Trunk Release Motor	The General Module is behind the glove box.
Factory Alarm Arm	Meter this wire while turning the key in the driver door key cylinder.
Factory Alarm Disarm	Meter this wire while turning the key in the driver door key cylinder.
Trunk Hatch/Release	The General Module is behind the glove box.
Subwoofer (+/-)	If equipped, the amplifier is in the left side of the luggage compartment.
Radio 12V	The radio is in the luggage compartment floor.
Wipers	The General Module is behind the glove box.