2009 BMW X3 (E83)

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/blue (50A)	+	ignition switch, 11 pin plug, pin 5
Second 12 Volts	red/green (50A)	+	ignition switch, 11 pin plug, pin 6
Starter	black/blue	+	ignition switch, 11 pin plug, pin 8
Second Starter	N/A		
Ignition	green	+	ignition switch, 11 pin plug, pin 9
Second Ignition	purple	+	ignition switch, 11 pin plug, pin 2
Third Ignition	red/black or red/blue	+	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/red (powertrain bus)	data	data link connector, 16 pin plug, pin 6
Can Bus Low	yellow/brown (powertrain bus)	data	data link connector, 16 pin plug, pin 14
Can Bus Sw	N/A		
Power Lock	yellow/red	-	central locking switch or GMCU, 54 pin plug, pin 7
Power Unlock	same as power lock		
Lock Motor	white or white/yellow	5 wire	GMCU, 54 pin plug, pin 13
Unlock Motor	blue or blue/brown	5 wire	GMCU, 54 pin plug, pin 51
Disarm Defeat	blue or blue/gray	5 wire	GMCU, 54 pin plug, pin 33
Parking Lights (+)	black/green (LF), black/blue (RF)	+	Light Module, 76 pin plug, pins 49 and 3
Parking Lights (-)	blue/brown	open	light switch, pin 2 or Light Module, 76 pin plug, pin 36
Hazards	brown/blue	-	hazard switch or Light Module, 76 pin plug, pin 52
Turn Signal (Left)	blue/green (F), blue/green (R)	+	Light Module, 76 pin plug, pins 67 and 24
Turn Signal (Right)	blue/brown (F), blue/brown (R)	+	Light Module, 76 pin plug, pins 23 and 68

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	yellow/green (L), yellow/blue (R)	+	Light Module, 76 pin plug, pins 53 and 15
AutoLights			
Reverse Light	blue/yellow	+	instrument cluster, 26 pin plug, pin 22
Left Front Door Trigger	brown/gray/yellow	-	GMCU, 54 pin plug, pin 26
Right Front Door Trigger	brown/gray/yellow or purple/black	-	GMCU, 54 pin plug, pin 25
Left Rear Door Trigger	brown/gray	-	GMCU, 54 pin plug, pin 24
Right Rear Door Trigger	brown/gray or yellow/green	-	GMCU, 54 pin plug, pin 23
Dome Supervision	red/blue	+	GMCU, 54 pin plug, pin 18
Trunk/Hatch Pin	white/brown	-	luggage compartment light
Rear Glass Pin	N/A		
Hood Pin	purple/green	-	GMCU, 26 pin plug, pin 7
Trunk Hatch/Release	gray/red or gray/yellow	-	GMCU, 54 pin plug, pin 44
Trunk Release Motor	gray/green	5 wire	GMCU, 54 pin plug, pin 17
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 or brown/yellow	-	GMCU, 54 pin plug, pin 22
Factory Alarm Disarm	white/black	-	GMCU, 54 pin plug, pin 20
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	red/white	+	fuel pump under rear seat
Rear Defroster	blue/brown	- latched	Heating and A/C System, 6 pin plug, pin 3
Mirror Defroster	N/A		
Left Front Heated Seat	green/purple	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	yellow/green	ac	instrument cluster, 26 pin plug, pin 6
Brake Wire	brown/gray or blue/red (function with ign on only)	+	brake switch or Light Module, 76 pin plug, pin 51
Parking Brake	blue/brown/yellow	-	large harness near gas pedal or instr cluster, 26 pin plug, pin 2
Horn Trigger	purple/blue	+	horn relay behind fuse box, behind glove box
Wipers	black/white (L), black/blue (H)	-	wiper switch or GMCU, 54 pin plug, pins 3 and 1
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)	yellow/grn and yel/wht (function with ign on only)	1 sec (-)	moonroof switch, 6 pin plug, pins 4 and 3
Sun Roof (Limit/Close)	gray/black and yel/wht (function with ign on only)	1 sec (-)	moonroof switch, 6 pin plug, pins 5 and 3
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, 16 pin plug, pins 3 and 7
Right Front Speaker (+/-)	blue/red - blue/brown or blue/red - brown/orange	+,-	radio, 16 pin plug, pins 2 and 6
Left Rear Speaker (+/-)	yellow/black - yellow/brown or yellow/bk - brn/org	+,-	radio, 16 pin plug, pins 4 and 8
Right Rear Speaker (+/-)	yellow/purple - yellow/gray or blue/blk - brn/org	+,-	radio, 16 pin plug, pins 1 and 5
Center Channel (+/-)	N/A		
Subwoofer (+/-)	red/wht - brown/org (L), red/blue - brown/grn (R)	+,-	amplifier, 42 pin plug, pins 4 and 3 (L), 23 and 22 (R)
Aux. Audio Input Left (+/-)	black - (shield)	+,-	radio, 12 pin plug, pins 3 and 10
Aux. Audio Input Right (+/-)	yellow - (shield)	+,-	radio, 12 pin plug, pins 4 and 10
RSE Video (+/-)			
RSE Audio Left (+/-)			

RSE Audio Right (+/-)			
Satellite Radio 12 Volts			
Satellite Radio Ground			
Satellite Radio Ignition			
Satellite Radio Antenna			
Satellite Audio Left (+/-)			
Satellite Audio Right (+/-)			

What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	4		left front door
Left Front Tweeter			left front door
Right Front Speaker	4		right front door
Right Front Tweeter			right front door
Left Rear Speaker	4		left rear door
Left Rear Tweeter			left rear door
Right Rear Speaker	4		right rear door
Right Rear Tweeter			right rear door
Center Channel	N/A		
Subwoofer			
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			driver side rear quarter panel

Smart Starter Kill Relay

There is currently no photo for this relay.

Relay Type:	n/a
Part #:	n/a
OE Relay Part #:	
Location:	n/a

Notes:
n/a

Alternate Part Notes:
n/a

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 GMCU, 26 pin plug, pin 23. The GMCU (General Module Control Unit) is behind the glove box.
Factory Alarm Arm	The GMCU (General Module Control Unit) is behind the glove box. Meter this wire while turning the key in the driver door key cylinder.
Factory Alarm Disarm	The GMCU (General Module Control Unit) is behind the glove box. Meter this wire while turning the key in the driver door key cylinder.
Left Front Door Trigger	The GMCU (General Module Control Unit) is behind the glove box.
Right Front Door Trigger	The GMCU (General Module Control Unit) is behind the glove box.
Lock Motor	The GMCU (General Module Control Unit) is behind the glove box.
Driver Unlock Motor	The GMCU (General Module Control Unit) is behind the glove box.
Passenger Unlock Motor	The GMCU (General Module Control Unit) is behind the glove box.
Power Lock	The GMCU (General Module Control Unit) is behind the glove box.
Left Rear Door Trigger	The GMCU (General Module Control Unit) is behind the glove box.
Right Rear Door Trigger	The GMCU (General Module Control Unit) is behind the glove box.
Trunk Hatch/Release	The GMCU (General Module Control Unit) is behind the glove box. Meter this wire while opening the liftgate from the handle on the rear of the vehicle.
Trunk Release Motor	The GMCU (General Module Control Unit) is behind the glove box.
Dome Supervision	The GMCU (General Module Control Unit) is behind the glove box.
Wipers	The GMCU (General Module Control Unit) is behind the glove box.
Parking Lights (+)	The Light Module is under the driver dash. The LR - RR wires are gray/purple - gray/yellow at the Light Module, 76 pin plug, pins 64 and 10.
Subwoofer (+/-)	If equipped, the amplifier is in the driver side rear quarter panel. On some models, the wires are in pins 2 and 1 (L), 25 and 24 (R).
Left Front Speaker (+/-)	If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are yellow/red - yellow/brown at the amplifier, 42 pin plug, pins 33 and 34, or 40 and 39. The tweeter wires are blue/black - blue/gray at the amplifier, 42 pin plug, pins 33 and 34.
Right Front Speaker (+/-)	If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are blue/red - blue/brown at the amplifier, 42 pin plug, pins 11 amd 12, or 42 and 41. The tweeter wires are black/white - black/brown at the amplifier, 42 pin plug, pins 11 and 12.
Left Rear Speaker (+/-)	If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are yellow/black - yellow/brown at the amplifier, 42 pin plug, pins 31 and 32. The tweeter wires are blue - brown at the amplifier, 42 pin plug, pins 4 and 3.
Right Rear Speaker (+/-)	If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are yellow/purple - yellow/gray at the amplifier, 42 pin plug, pins 13 and 21. The tweeter wires are gray/yellow - gray/green at the amplifier, 42 pin plug, pins 23 and 22.
Sun Roof (Open/Close)	Diode isolate these wires from each other.
Sun Roof (Limit/Close)	Diode isolate these wires from each other.
Second Ignition	This wire needs to be powered before ignition. Use status or ground when running to trigger.
Brake Wire	The Light Module is under the driver dash.
Parking Lights (-)	The Light Module is under the driver dash.
Hazards	The Light Module is under the driver dash.
Turn Signal (Left)	The Light Module is under the driver dash.
Turn Signal (Right)	The Light Module is under the driver dash.
Headlight	The Light Module is under the driver dash.
Hood Pin	The GMCU (General Module Control Unit) is behind the glove box.