

2019 BMW X1 (F48) - North America

Item	Wire Color	Polarity	Wire Location
12 Volts	Red/Blue (40A)	+	BDC in passenger kick, black 54 pin plug (3B), pin 33
Ground	(chassis ground)		
Starter Kill	Black	+	BDC in passenger kick, black 42 pin plug (2B), pin 1
Ignition Sense	Green/Gray or Black/Green	+	BDC in passenger kick, black 54 pin plug (3B), pin 20
PTS 1	Gray	-	BDC in passenger kick, white 54 pin plug (7B), pin 45
PTS 2	White	-	BDC in passenger kick, white 54 pin plug (7B), pin 49
CAN Bus High	Red (K CAN)	Data	BDC in passenger kick, black 54 pin plug (8B), pin 50
CAN Bus Low	Yellow (K CAN)	Data	BDC in passenger kick, black 54 pin plug (8B), pin 49
CAN Bus High 2	Gray (DIAG CAN)	Data	BDC in passenger kick, black 54 pin plug (8B), pin 46
CAN Bus Low 2	Blue (DIAG CAN)	Data	BDC in passenger kick, black 54 pin plug (8B), pin 45
CAN Bus High 3	Gray (DIAG CAN)	Data	OBD-Data Link Connector, 16 pin plug, pin 6
CAN Bus Low 3	Blue (DIAG CAN)	Data	OBD-Data Link Connector, 16 pin plug, pin 14
OBD 12 Volts	Red/Black (7.5A)	+	OBD-Data Link Connector, 16 pin plug, pin 16
OBD Ground	Brown	-	OBD-Data Link Connector, 16 pin plug, pin 4
Keyless Data	Red (LIN)	Data	BDC in passenger kick, white 54 pin plug (4B), pin 15
Power Lock	Green	MUX	BDC in passenger kick, black 42 pin plug (2B), pin 28
Power Unlock	(same as power lock)		
Lock Motor	White or Black	Reverse	BDC in passenger kick, white 54 pin plug (4B), pin 30 or 20
Driver Unlock Motor	Blue	Reverse	BDC in passenger kick, white 54 pin plug (4B), pin 29
Passenger Unlock Motor	Blue	Reverse	BDC in passenger kick, white 54 pin plug (4B), pin 28
Factory Alarm Arm	(factory remote only)		
Factory Alarm Disarm	(proximity key and push button)		
Parking Lights	Black/Green (LF); Black/Blue (RF) (w/o LED headlight); (LIN - w/LED headlight)	+	BDC in passenger kick, black 54 pin plug (3B), pin 51 (LF); pin 39 (RF)
Parking Lights 2	Gray/Violet (LR); Gray/Violet (RR)	+	BDC in passenger kick, gray 42 pin plug (5B), pin 42 (LR); black 54 pin plug (3B), pin 42 (RR)
Parking Lights -	(LIN)		
Hazards	Orange	-	BDC in passenger kick, white 54 pin plug (7B), pin 31
Turn Signal (Left)	Blue/Green (LF); Black/White (LR)	+	BDC in passenger kick, black 54 pin plug (3B), pin 48 (LF); gray 42 pin plug (5B), pin 19 (LR)
Turn Signal (Right)	Brown/Blue (RF); Blue/Gray (RR)	+	BDC in passenger kick, black 54 pin plug (3B), pin 36 (RF); gray 42 pin plug (5B), pin 11 (RR)
Headlight	Yellow/Green (L); Yellow/Blue (R) (w/o LED); (LIN - w/LED)	+	BDC in passenger kick, black 54 pin plug (3B), pin 35 (L); black 42 pin plug (2B), pin 25 (R)
AutoLights	(LIN)		
Reverse Light	Gray/Blue	+	BDC in passenger kick, gray 42 pin plug (5B), pin 21
Left Front Door Trigger	Gray	-	BDC in passenger kick, black 42 pin plug (2B), pin 30
Right Front Door Trigger	Yellow or White/Green	-	BDC in passenger kick, black 42 pin plug (2B), pin 31

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Left Rear Door Trigger	Violet	-	BDC in passenger kick, black 42 pin plug (2B), pin 38
Right Rear Door Trigger	White	-	BDC in passenger kick, black 42 pin plug (2B), pin 39
Dome Light	Red (basic version); (LIN - high version)	+	BDC in passenger kick, black 42 pin plug (2B), pin 42
Trunk/Hatch Pin	Black	- N.C.	BDC in passenger kick, violet 54 pin plug (6B), pin 8
Hood Pin	Blue	-	BDC in passenger kick, black 42 pin plug (2B), pin 40
Trunk/Hatch Release	Orange (rear handle switch)	-	BDC in passenger kick, violet 54 pin plug (6B), pin 7
Trunk Release Motor	Gray/Green	Reverse	BDC in passenger kick, violet 54 pin plug (6B), pin 6
Fuel Door Release	Black - Blue (lock/unlock)	Reverse	BDC in passenger kick, white 54 pin plug (4B), pins 16, 45
Tachometer	Black	AC	OBD-Data Link Connector, 16 pin plug, pin 9
Fuel Pump	Red/White	+	Front Power Distribution Box behind glove box, plug (4B), pin 25 (Fuse 66)
Rear Defroster	Red	+ Latched	BDC in passenger kick, gray 42 pin plug (5B), pin 22
Mirror Defroster	(LIN)		
Left Front Heated Seat	(K CAN)		
Right Front Heated Seat	(K CAN)		
Speed Sense	(wheel speed sensor)		
Brake Wire	Blue	-	BDC in passenger kick, black 54 pin plug (3B), pin 22
Parking Brake	(electric parking brake)		
Horn Trigger	Violet/Yellow	+	BDC in passenger kick, black 42 pin plug (2B), pin 2
Horn - Factory Alarm	(LIN - siren)		
Wipers	Red/Green (LO); Red/Yellow (HI)	+	BDC in passenger kick, black 42 pin plug (2B), pin 22 (LO); pin 23 (HI)
All Windows Up-Down	(not recommended because of factory auto up/down)		
Sun Roof (Open/Close)	(not recommended because of factory auto open/close)		
Radio 12V	Red/Yellow	+	Radio, 40 pin plug, pin 15
Radio Ground	Brown/Orange or Brown	-	Radio, 40 pin plug, pin 12
Radio Ignition	(K CAN)		
Radio Illumination	Gray/Red	+	Radio, 40 pin plug, pin 14
Factory Amp Turn-on	Black	+	Radio, 40 pin plug, pin 13
Left Front Speaker (+/-)	Black/Red - Black/Brown or Yellow/Red - Yellow/Brown	+,-	Radio, 40 pin plug, pins 3 - 7
Right Front Speaker (+/-)	Blue/Red - Blue/Brown or Violet/Red - Violet/Brown	+,-	Radio, 40 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	White/Red - White/Brown or Brown/Red - Brown/Blue	+,-	Radio, 40 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	Gray/Red - Gray/Brown or Green/Red - Green/Brown	+,-	Radio, 40 pin plug, pins 1 - 5
Left Front Speaker - With Amp	Black/Red - Black/Brown	+,-	Amplifier in left rear quarter panel, 42 pin plug, pins 4 - 3
Right Front Speaker - With Amp	Blue/Red - Blue/Brown	+,-	Amplifier in left rear quarter panel, 42 pin plug, pins 23 - 22
Left Front Tweeter - With Amp	White/Red - White/Brown	+,-	Amplifier in left rear quarter panel, 42 pin plug, pins 33 - 34

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Right Front Tweeter - With Amp	Blue/Red - Blue/Brown	+,-	Amplifier in left rear quarter panel, 42 pin plug, pins 11 - 12
Left Rear Speaker - With Amp	White/Red - White/Brown	+,-	Amplifier in left rear quarter panel, 42 pin plug, pins 31 - 32
Right Rear Speaker - With Amp	Gray/Red - Gray/Brown	+,-	Amplifier in left rear quarter panel, 42 pin plug, pins 13 - 21
Center Channel - With Amp	Black/White - Black/Violet	+,-	Amplifier in left rear quarter panel, 42 pin plug, pins 39 - 40
Aux. Audio Input Left (+/-)	White/Red - Violet	+,-	Radio, 40 pin plug, pins 30 - 36
Aux. Audio Input Right (+/-)	White/Green - Violet	+,-	Radio, 40 pin plug, pins 35 - 36
Rearview Camera Video	White - (shield)	+,-	Radio, 40 pin plug, pins 24 - 23

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