

## 2015 BMW 3 Series (F30/F31) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	red/blue (40A)	+	Front Electronic Module in pass kick, black 54 pin plug (3B), pin 33
Starter	black (for starter kill only)	+	Front Electronic Module in pass kick, black 42 pin plug (2B), pin 1
Ignition	green/gray (for ignition sense only)	+ low curr	Front Electronic Module in pass kick, black 54 pin plug (3B), pin 20
PTS 1	green/blue or blue/white	- resistor	Front Electronic Module in pass kick, white 54 pin plug (7B), pin 45
PTS 2	white/blue or blue/white	- resistor	Front Electronic Module in pass kick, white 54 pin plug (7B), pin 49
CAN Bus High	yellow/red (K CAN)	data	Front Electronic Module in pass kick, black 54 pin plug (8B), pin 50
CAN Bus Low	yellow/brown (K CAN)	data	Front Electronic Module in pass kick, black 54 pin plug (8B), pin 49
IMMO Data	(immobilizer antenna ring is in steering column)		
Keyless Data	white/blue (LIN bus)	data	Front Electronic Module in pass kick, white 54 pin plug (4B), pin 15
Power Lock	yellow/brown (center dash switch)	-	Front Electronic Module in pass kick, white 54 pin plug (7B), pin 27
Power Unlock	(same as power lock)		
Lock Motor	white or black	5 wire	Front Electronic Mod in pass kick, wht 54 pin plug (4B), pin 30 or 20
Driver Unlock Motor	yellow/green	5 wire	Front Electronic Module in pass kick, white 54 pin plug (4B), pin 29
Passenger Unlock Motor	blue	5 wire	Front Electronic Module in pass kick, white 54 pin plug (4B), pin 28
Factory Alarm Arm	(factory remote only)		
Factory Alarm Disarm	(see disarm no unlock)		
Disarm No Unlock	(proximity key and push-button)		
Parking Lights (+)	black/green (LF); black/blue (RF) (w/o LED hdlght)	+	Front Electronic Mod in pass kick, black 54 pin plug (3B), pins 51, 39
Parking Lights (-)	(LIN bus)		

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Item	Wire Color	Polarity	Wire Location
Hazards	brown/blue or blue/white	-	Front Electronic Module in pass kick, white 54 pin plug (7B), pin 31
Turn Signal (Left)	blue/green (F); black/white (R)	+	Frnt Elct Mod, 54P plg (3B), pin 48; Rr Elct Mod, 26P plg (12B), pin 17
Turn Signal (Right)	blue/brown (F); black/gray (R)	+	Frnt Elct Mod, 54P plg (3B), pin 36; Rr Elct Mod, 54P plg (14B), pin 12
Headlight	yellow/green (L); yellow/blue (R) (w/o LED hdlght)	+	Front Electronic Mod, 54 pin plug (3B), pin 35; 42 pin plg(2B), pin 25
AutoLights	(LIN bus)		
Reverse Light	black/purple	+	Rear Electronic Module in trunk R side, wht 26 pin plug (13B), pin 16
Left Front Door Trigger	gray/white	-	Front Electronic Module in pass kick, black 42 pin plug (2B), pin 30
Right Front Door Trigger	brown/yellow	-	Front Electronic Mod, blk 42 pin plug (2B), pin 31
Left Rear Door Trigger	brown/purple	-	Front Electronic Mod, blk 42 pin plug (2B), pin 38
Right Rear Door Trigger	brown/white	-	Front Electronic Mod, blk 42 pin plug (2B), pin 39
Dome Light	gray/purple	-	Front Electronic Module in pass kick, black 54 pin plug (3B), pin 21
Trunk/Hatch Pin	brown/green or brown/orange	-	Rear Electronic Module in trunk R side, wht 26 pin plug (13B), pin 26
Hood Pin	purple/green or purple/red	-	Front Electronic Module in pass kick, black 42 pin plug (2B), pin 40
Trunk/Hatch Release	green/black	-	release switch or Front Electronic Mod, blk 42 pin plug (2B), pin 37
Trunk Release Motor	gray/green	5 wire	Rear Electronic Module in trunk R side, wht 26 pin plug (13B), pin 19
Fuel Door Release	blue or purple/red (unlock only)	5 wire	Front Electronic Module in pass kick, white 54 pin plug (4B), pin 45
Tachometer	black/red or black	ac	data link connector, 16 pin plug, pin 9
Clutch Pedal	blue/brown		Front Electronic Mod, blk 54 pin plug (3B), pin 23
Fuel Pump	red/green	+	rear fuse holder in trunk R side, plg (11B), pin 2

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Item	Wire Color	Polarity	Wire Location
Rear Defroster	red	+ latched	Rear Electronic Module in trunk R side, blk 26 pin plug (12B), pin 26
Mirror Defroster	(LIN bus)		
Left Front Heated Seat	(LIN bus or K CAN)		
Right Front Heated Seat	(LIN bus or K CAN)		
Speed Sense	(wheel speed sensor)		
Brake Wire	blue/red	-	brake switch or Front Electronic Mod, blk 54 pin plug (3B), pin 22
Parking Brake	yellow/blue	-	park brake sw or Front Electronic Mod, blk 54 pin plug (3B), pin 10
Horn Trigger	purple/blue or purple/white (LO); purple/blue (HI)	+	Front Electronic Mod in pass kick, black 42 pin plug (2B), pins 2, 3
Wipers	red/green (LO); red/yellow (HI)	+	Front Electronic Mod in pass kick, black 42 pin plug (2B), pins 22, 23
Left Front Window (Up/Down)	(not recommended because of factory auto up/down)		
Right Front Window (Up/Down)	(not recommended because of factory auto up/down)		
Left Rear Window (Up/Down)	(not recommended because of factory auto up/down)		
Right Rear Window (Up/Down)	(not recommended because of factory auto up/down)		
Sun Roof (Open/Close)	green - blue	reverse	overhead console, plug (3B), pins 3 - 4
Radio 12V	red/yellow	+	radio, 40 pin plug, pin 15
Radio Ground	brown	-	radio, 40 pin plug, pin 12
Radio Ignition	(K CAN)		
Radio Illumination	gray/red (dimmer)	+	radio, 40 pin plug, pin 14
Factory Amp Turn-on	(same as power ant - HiFi); (MOST bus - Top HiFi)		
Power Antenna	black	+	radio, 40 pin plug, pin 13
Left Front Speaker (+/-)	black/red - black/brown or yellow/red - yellow/brn	+,-	radio, 40 pin plug, pins 3 - 7
Right Front Speaker (+/-)	blue/red - blue/brown or purple/red - purple/brown	+,-	radio, 40 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	white/red - white/brown or brown/blue - brown/red	+,-	radio, 40 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	gray/red - gray/brown or green/brown - green/red	+,-	radio, 40 pin plug, pins 1 - 5

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Item	Wire Color	Polarity	Wire Location
Center Channel (+/-)	black/white - black/purple	+,-	amp, 42 pin plg, pins 39-40 (HiFi) or 20 pin plg, pins 5-15 (Top HiFi)
Aux. Audio Input Left (+/-)	white/red - purple or gray - brown	+,-	radio, 40 pin plug, pins 30 - 36
Aux. Audio Input Right (+/-)	white/green - purple or blue - brown	+,-	radio, 40 pin plug, pins 35 - 36
RSE Video (+/-)	white - (shield) (DVD changer)	+,-	radio, 40 pin plug, pins 24 - 23
RSE Audio Left (+/-)	(MOST bus)		
RSE Audio Right (+/-)	(MOST bus)		
Satellite Radio 12 Volts	(built into radio)		

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***What Fits***

Item	Size	Depth	Location
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**Additional Wiring Notes**

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the speaker wire are black/red - black/brown (woofer); black/red - black/brown (tweeter/midrange) at the amplifier in trunk L side, 42 pin plug, pins 4 - 3; 33 - 34 (HiFi) or 20 pin plug, pins 8 - 18; 19 - 9 (Top HiFi).
Left Rear Speaker (+/-)	On models with amplifier, the speaker wire are white/red - white/brown at the amplifier in trunk L side, 42 pin plug, pins 31 - 32 (HiFi) or 20 pin plug, pins 1 - 11 (Top HiFi). The speaker 2 wires are yellow/red - yellow/brown at the amplifier, 20 pin plug, pins 14 - 4 (Top HiFi).
Parking Lights (+)	The LR - RR are gray/purple - gray/yellow at the Rear Electronic Module in trunk R side, black 26 pin plug (12B), pin 12; black 54 pin plug (14B), pin 24.
Right Front Speaker (+/-)	On models with amplifier, the speaker wire are blue/red - blue/brown (woofer); blue/red - blue/brown (tweeter/midrange) at the amplifier in trunk L side, 42 pin plug, pins 23 - 22; 11 - 12 (HiFi) or 20 pin plug, pins 6 - 16; 17 - 7 (Top HiFi).
Right Rear Speaker (+/-)	On models with amplifier, the speaker wire are gray/red - gray/brown at the amplifier in trunk L side, 42 pin plug, pins 13 - 21 (HiFi) or 20 pin plug, pins 12 - 2 (Top HiFi). The speaker 2 wires are purple/red - purple/brown at the amplifier, 20 pin plug, pins 13 - 3 (Top HiFi).