

## 2012 BMW 5 Series (F10/F11)



## Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red (40A)	+	Car Access System under driver dash, 41 pin plug, pin 21
<b>Second 12 Volts</b>	N/A		
<b>Starter</b>	black (for starter kill only)	+ low curr	Car Access System under driver dash, 41 pin plug, pin 22
<b>Second Starter</b>	orange (SS1), black/white (SS2)	- resistor	start/stop btn or Car Access System under dr dash, 26 pin plg, pins 8,7
<b>Ignition</b>	green (for ignition sense only)	+ low curr	Car Access System under driver dash, 41 pin plug, pin 1
<b>Second Ignition</b>	N/A		
<b>Third Ignition</b>	N/A		
<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>	(immobilizer antenna ring is in steering column)		
<b>Can Bus High</b>	yellow/red (K CAN)	data	Car Access System under driver dash, 41 pin plug, pin 35
<b>Can Bus Low</b>	yellow/brown (K CAN)	data	Car Access System under driver dash, 41 pin plug, pin 26
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	yellow/red (center dash switch)	-	Car Access System under driver dash, 26 pin plug, pin 3
<b>Power Unlock</b>	(same as power lock)		
<b>Lock Motor</b>	purple or black	5 wire	driver kick or Pass Dash Fuse Box ECU, 47 pin plug, pin 36 or 14
<b>Unlock Motor</b>	orange	5 wire	driver kick or Pass Dash Fuse Box ECU, 47 pin plug, pin 18
<b>Disarm Defeat</b>	yellow/white	5 wire	passenger kick or Pass Dash Fuse Box ECU, 47 pin plug, pin 19
<b>Parking Lights (+)</b>	(LIN bus - Front); gray/pur (LR); gray/yel (RR)	+	Footwell Module in driver kick, 51 pin plug (2B), pins 16, 18
<b>Parking Lights (-)</b>	(LIN bus)		
<b>Hazards</b>	brown/blue	-	Footwell Module in driver kick, 26 pin plug, pin 18
<b>Turn Signal (Left)</b>	blue/green (F); blue/green (R)	+	Footwell Mod in dr kick, 51P plug (2B), pin 13; 51P plug (3B), pin 45
<b>Turn Signal (Right)</b>	blue/brown (F); blue/brown (R)	+	Footwell Mod in dr kick, 51P plug (3B), pin 40; 51P plug (2B), pin 12

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	yellow/green (L); yellow/blue (R)	+	Footwell Mod in dr kick, 51P plug (2B), pin 6; 51P plug (3B), pin 38
<b>AutoLights</b>	(LIN bus)		
<b>Reverse Light</b>	yellow/brown	+	Footwell Module in driver kick, 51 pin plug (3B), pin 47
<b>Left Front Door Trigger</b>	purple/blue	-	Footwell Module in driver kick, 51 pin plug (3B), pin 24
<b>Right Front Door Trigger</b>	orange	-	Footwell Mod in driv kick, 51 pin plg (3B), pin 13
<b>Left Rear Door Trigger</b>	gray/yellow	-	Footwell Mod in driv kick, 51 pin plg (3B), pin 26
<b>Right Rear Door Trigger</b>	green/yellow	-	Footwell Mod in driv kick, 51 pin plg (3B), pin 15
<b>Dome Supervision</b>	red/blue	+	Footwell Module in driver kick, 51 pin plug (2B), pin 35
<b>Trunk/Hatch Pin</b>	gray/brown	- N.C.	Passenger Dash Fuse Box ECU, 54 pin plug, pin 11
<b>Rear Glass Pin</b>	N/A		
<b>Hood Pin</b>	purple/green	-	Car Access System under driver dash, 41 pin plug, pin 38
<b>Trunk Hatch/Release</b>	green/black	-	Car Access System under driver dash, 41 pin plug, pin 39
<b>Trunk Release Motor</b>	gray/green	5 wire	Passenger Dash Fuse Box ECU, 47 pin plug, pin 12
<b>Fuel Door Release</b>	(locks/unlocks along with doors)		
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>	N/A		
<b>Factory Alarm Arm</b>	white/yellow (driver door key lock)	-	Footwell Module in driver kick, 51 pin plug (3B), pin 42
<b>Factory Alarm Disarm</b>	white/blue (driver door key unlock)	double -	Footwell Module in driver kick, 51 pin plug (3B), pin 46
<b>Disarm No Unlock</b>	(transponder and push-button start)		
<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>	blue	+	Car Access Sys under dr dash, 41 pin plug, pin 41
<b>Fuel Pump</b>	red/green	+	rear fuse holder, plug (5B), pin 1
<b>Rear Defroster</b>	blue/yellow	+ latched	Passenger Dash Fuse Box ECU, 47 pin plug, pin 4
<b>Mirror Defroster</b>	(LIN bus)		
<b>Left Front Heated Seat</b>	(LIN bus or K CAN)		
<b>Right Front Heated Seat</b>	(LIN bus or K CAN)		

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	yellow/purple	ac	Parking Brake Control Module in trunk center rear, 22 pin plg, pin 7
Brake Wire	brown/gray (functions with ignition on only)	+	Car Access System under driver dash, 41 pin plug, pin 32
Parking Brake	(electric parking brake)		
Horn Trigger	red/brown	+	passenger dash fuse box, plug (8B), pin 6
Wipers	(LIN bus)		
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	(LIN bus)		
Memory Seat 2	(LIN bus)		
Memory Seat 3	N/A		
Radio 12V	red/white	+	radio, 40 pin plug, pin 15
Radio Ground	brown	-	radio, 40 pin plug, pin 12
Radio Ignition	(K CAN)		
Radio Illumination	N/A		
Factory Amp Turn-on	(same as power ant - HiFi); (MOST bus - Top HiFi)		
Power Antenna	black/white	+	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/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
Center Channel (+/-)	black/white - black/purple	+,-	amp, 42 pin plg, pins 39-40 (HiFi), or 20 pin plg, pins 5-15 (Top HiFi)
Subwoofer (+/-)	N/A		
Aux. Audio Input Left (+/-)	gray - brown	+,-	radio, 40 pin plug, pins 30 - 36
Aux. Audio Input Right (+/-)	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)		

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DirectWire Vehicle RSE Audio Right (+/-)	Information - 6/23/2014 3:16:11 AM (MOST bus)		
Satellite Radio 12 Volts	(built into radio)		
Satellite Radio Ground	N/A		
Satellite Radio Ignition	N/A		
Satellite Radio Antenna	N/A		
Satellite Audio Left (+/-)	N/A		
Satellite Audio Right (+/-)	N/A		

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*What Fits*

Item	Size	Depth	Location
<b>Headunit</b>	irregular		center of dash
<b>Left Front Speaker</b>	8.54		under left front seat
<b>Left Front Tweeter</b>	0.98 (tweeter); 3.94 (midrange)		left front door
<b>Right Front Speaker</b>	8.54		under right front seat
<b>Right Front Tweeter</b>	0.98 (tweeter); 3.94 (midrange)		right front door
<b>Left Rear Speaker</b>	3.94 (midrange); 3.94 (midrange)		left rear deck; left rear door (Top HiFi)
<b>Left Rear Tweeter</b>	0.98 (tweeter); 0.98 (tweeter)		left rear deck; left rear door (Top HiFi)
<b>Right Rear Speaker</b>	3.94 (midrange); 3.94 (midrange)		right rear deck; right rear door (Top HiFi)
<b>Right Rear Tweeter</b>	0.98 (tweeter); 0.98 (tweeter)		right rear deck; right rear door (Top HiFi)
<b>Center Channel</b>	0.98 (tweeter); 3.94 (midrange)		top center of dash
<b>Subwoofer</b>	N/A		
<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>	(built into radio)		

*Additional Wiring Notes*

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