

2009 BMW 7 Series (F01/F02/F03/F04)



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (40A)	+	Car Access System, 41 pin plug, pin 21
Second 12 Volts	N/A		
Starter	black (for starter kill only)	+ low curr	Car Access System, 41 pin plug, pin 22
Second Starter	N/A		
Ignition	green (for ignition sense only)	+ low curr	Car Access System, 41 pin plug, pin 1
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	N/A		
Second Accessory	N/A		
Third Accessory	N/A		
Key Sense	N/A		
Data Bus	N/A		
Can Bus High	yellow/red	data	Car Access System, 41 pin plug, pin 35
Can Bus Low	yellow/brown	data	Car Access System, 41 pin plug, pin 26
Can Bus Sw	N/A		
Power Lock	yellow/red	-	Car Access System, 26 pin plug (2B), pin 3
Power Unlock	same as power lock		
Lock Motor	purple or black	5 wire	Electronics Junction Box, rear, 47 pin plug, pin 36 or 14
Unlock Motor	orange	5 wire	Electronics Junction Box, rear, 47 pin plug, pin 18
Disarm Defeat	yellow/white	5 wire	Electronics Junction Box, rear, 47 pin plug, pin 19
Parking Lights (+)	black/brown (LF); black/blue (RF)	+	Footwell Module, 51 pin plg (3B), pin 50; 51 pin plg (2B), pin 8
Parking Lights (-)	(LIN bus)		
Hazards	brown/blue	-	Footwell Module, 26 pin plug, pin 18
Turn Signal (Left)	white/purple (F), blue/green (R)	+	Footwell Module, 51 pin plug (3B), pins 6 and 45
Turn Signal (Right)	white/black (F), blue/brown (R)	+	Footwell Module, 51 pin plug (2B), pins 4 and 12

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	yellow/green (L); yellow/blue (R)	+	Footwell Module, 51 pin plg (2B), pin 6; 51 pin plg (3B), pin 38
AutoLights			
Reverse Light	yellow/brown	+	Footwell Module, 51 pin plug (3B), pin 47
Left Front Door Trigger	purple/blue	-	Footwell Module, 51 pin plug (3B), pin 24
Right Front Door Trigger	orange	-	Footwell Module, 51 pin plug (3B), pin 13
Left Rear Door Trigger	gray/yellow	-	Footwell Module, 51 pin plug (3B), pin 26
Right Rear Door Trigger	green/yellow	-	Footwell Module, 51 pin plug (3B), pin 15
Dome Supervision	red/blue	+	Footwell Module, 51 pin plug (2B), pin 35
Trunk/Hatch Pin	gray/brown	- N.C.	Electronics Junction Box, 54 pin plug, pin 11
Rear Glass Pin	N/A		
Hood Pin	purple/green	-	Car Access System, 41 pin plug, pin 38
Trunk Hatch/Release	green/black	-	Car Access System, 41 pin plug, pin 39
Trunk Release Motor	gray/green	5 wire	Electronics Junction Box, rear, 47 pin plug, pin 12
Fuel Door Release	unlocks along with driver door		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	white/yellow	-	Footwell Module, 51 pin plug (3B), pin 42
Factory Alarm Disarm	white/blue (double pulse)	-	Footwell Module, 51 pin plug (3B), pin 46
Disarm No Unlock	Transponder and push-button start		
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	N/A		
Fuel Pump	red/green	+	Fuel Pump Control, 16 pin plug, pin 1
Rear Defroster	blue/yellow	+ latched	Electronics Junction Box, rear, 47 pin plug, pin 4
Mirror Defroster	(LIN bus)		
Left Front Heated Seat	(CAN bus)		
Right Front Heated Seat	(CAN bus)		

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	yellow/purple	ac	Car Access System, 41 pin plug, pin 31
Brake Wire	brown/gray (functions with ignition on only)	+	Car Access System, 41 pin plug, pin 32
Parking Brake	(electric parking brake)		
Horn Trigger	red/brown	+	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	(LIN bus)		
Radio 12V	red/white	+	radio, 16 pin plug, pin 15
Radio Ground	brown	-	radio, 16 pin plug, pin 12
Radio Ignition	(CAN bus)		
Radio Illumination	(CAN bus)		
Factory Amp Turn-on	same as power antenna (HIFI), MOST bus (Top HIFI)		
Power Antenna	black/white	+	radio, 16 pin plug, pin 13
Left Front Speaker (+/-)	yellow/red - yellow/brown (preamp on HIFI)	+,-	radio, 16 pin plug, pins 3 and 7
Right Front Speaker (+/-)	purple/red - purple/brown (preamp on HIFI)	+,-	radio, 16 pin plug, pins 2 and 6
Left Rear Speaker (+/-)	brown/red - brown/blue (preamp on HIFI)	+,-	radio, 16 pin plug, pins 4 and 8
Right Rear Speaker (+/-)	green/red - green/brown (preamp on HIFI)	+,-	radio, 16 pin plug, pins 1 and 5
Center Channel (+/-)	black/white - black/purple	+,-	amplifier, 40 pin plug, pins 39 and 40 (HIFI)
Subwoofer (+/-)	black/red - black/brn (L); blue/red - blue/brn (R)	+,-	amplifier, 40 pin plug, pins 4 and 3; 23 and 22 (HIFI)
Aux. Audio Input Left (+/-)	red - (shield)	+,-	radio, 10 pin plug, pins 2 and 8
Aux. Audio Input Right (+/-)	white - (shield)	+,-	radio, 10 pin plug, pins 7 and 8
RSE Video (+/-)	blue - white	+,-	radio, 12 pin plug, pins 5 and 8
RSE Audio Left (+/-)	(MOST bus)		
RSE Audio Right (+/-)	(MOST bus)		
Satellite Radio 12 Volts	red/purple	+	Satellite Tuner, 3 pin plug, pin 1

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DirectWire Vehicle Information - 7/3/2012 2:06:01 AM			
Satellite Radio Ground	brown	-	Satellite Tuner, 3 pin plug, pin 3
Satellite Radio Ignition	(MOST bus)		
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	(MOST bus)		
Satellite Audio Right (+/-)	(MOST bus)		

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What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker			left front door
Left Front Tweeter			left front door
Right Front Speaker			right front door
Right Front Tweeter			right front door
Left Rear Speaker			left rear deck; left rear door
Left Rear Tweeter			left rear deck; left rear door
Right Rear Speaker			right rear deck; right rear door
Right Rear Tweeter			right rear deck; right rear door
Center Channel			top center of dash
Subwoofer			under left and right front seats
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			left side of luggage compartment

Additional Wiring Notes

Item	Note
12 Volts	The Car Access System is to the right of the steering column.
Turn Signal (Left)	The Footwell Module is in the driver kick.
Turn Signal (Right)	The Footwell Module is in the driver kick.
Headlight	The Footwell Module is in the driver kick.
Dome Supervision	The Footwell Module is in the driver kick.
Trunk Release Motor	The Electronics Junction Box is behind the glove box, attached to the right side of the dash fuse box.
Satellite Radio 12 Volts	The Satellite Tuner is in the left side of the luggage compartment.
Center Channel (+/-)	The amplifier is in the left side of the luggage compartment. On Top HIFI systems, they are in the 20 pin plug, pins 5 and 15.
Subwoofer (+/-)	The amplifier is in the left side of the luggage compartment. On Top HIFI systems, they are in the 20 pin plug, pins 8 and 18; 6 and 16.
Left Front Speaker (+/-)	The amplifier is in the left side of the luggage compartment. The speaker wires are black/red - black/brown at the amplifier, 40 pin plug, pins 33 and 34 (HIFI), or 20 pin plug, pins 19 and 9 (Top HIFI).
Right Front Speaker (+/-)	The amplifier is in the left side of the luggage compartment. The speaker wires are blue/red - blue/brown at the amplifier, 40 pin plug, pins 11 and 12 (HIFI), or 20 pin plug, pins 17 and 7 (Top HIFI).
Left Rear Speaker (+/-)	The amplifier is in the left side of the luggage compartment. The deck speaker wires are white/red - white/brown at the amplifier, 40 pin plug, pins 31 and 32 (HIFI), or 20 pin plug, pins 14 and 4 (Top HIFI). The door speaker wires are yellow/red - yellow/brown at the amplifier, 20 pin plug, pins 1 and 11 (Top HIFI).
Right Rear Speaker (+/-)	The amplifier is in the left side of the luggage compartment. The deck speaker wires are gray/red - gray/brown at the amplifier, 40 pin plug, pins 13 and 21 (HIFI), or 20 pin plug, pins 13 and 3 (Top HIFI). The door speaker wires are purple/red - purple/brown at the amplifier, 20 pin plug, pins 12 and 2 (Top HIFI).
Trunk/Hatch Pin	The Electronics Junction Box is behind the glove box, attached to the right side of the dash fuse box.
Reverse Light	The Footwell Module is in the driver kick.
Hazards	The Footwell Module is in the driver kick.
Parking Lights (+)	The Footwell Module is in the driver kick. The LR - RR wires are gray/purple - gray/yellow at the Footwell Module, 51 pin plug (2B), pins 16 and 18.
Rear Defroster	The Electronics Junction Box is behind the glove box, attached to the right side of the dash fuse box.
Fuel Pump	The Fuel Pump Control is in the right rear luggage compartment floor.
Starter	The Car Access System is to the right of the steering column.
Ignition	The Car Access System is to the right of the steering column.
Can Bus High	The Car Access System is to the right of the steering column.
Can Bus Low	The Car Access System is to the right of the steering column.
Speed Sense	The Car Access System is to the right of the steering column.
Hood Pin	The Car Access System is to the right of the steering column.
Brake Wire	The Car Access System is to the right of the steering column.
Trunk Hatch/Release	The Car Access System is to the right of the steering column.
Left Front Door Trigger	The Footwell Module is in the driver kick.
Right Front Door Trigger	The Footwell Module is in the driver kick.
Left Rear Door Trigger	The Footwell Module is in the driver kick.
Right Rear Door Trigger	The Footwell Module is in the driver kick.