

## 2004 BMW Z4



## Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red/blue (40A), red/grn (50A)	+	ignition harness
<b>Second 12 Volts</b>			
<b>Starter</b>	black/blue	+	ignition harness
<b>Second Starter</b>	N/A		
<b>Ignition</b>	green	+	ignition harness
<b>Second Ignition</b>	purple	+	ignition harness
<b>Third Ignition</b>	N/A		
<b>Accessory</b>	N/A		
<b>Second Accessory</b>	N/A		
<b>Third Accessory</b>			
<b>Key Sense</b>	N/A		
<b>Data Bus</b>			
<b>Can Bus High</b>			
<b>Can Bus Low</b>			
<b>Can Bus Sw</b>			
<b>Power Lock</b>	yellow/red	-	General Module, middle plug, pin 7
<b>Power Unlock</b>	same as power lock wire		
<b>Lock Motor</b>	white	5wi	General Module, middle plug, pin 13
<b>Unlock Motor</b>	blue	5wi	General Module, middle plug, pin 51
<b>Disarm Defeat</b>	blue	5wi	General Module, middle plug, pin 33
<b>Parking Lights (+)</b>	gray/purple (L), gray/yel (R)	+	light switch module, pins 30, 29
<b>Parking Lights (-)</b>	see Tech Doc 1055		
<b>Hazards</b>	brown/blue	-	sw or light switch module, pin 24
<b>Turn Signal (Left)</b>	blue/green (F), blue/green (R)	+	light switch module, pins 50, 1
<b>Turn Signal (Right)</b>	blue/brown (F), blue/brown (R)	+	light switch module, pins 11, 43

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	yellow/grn (L), yellow/blu (R)	+	light switch module, pins 7, 34
<b>AutoLights</b>			
<b>Reverse Light</b>	blue/yellow	+	kick panel or cluster, pin 22
<b>Left Front Door Trigger</b>	brn/gry/yel(D), brn/gry/yel(P)	-	General Mod, middle plg, pins 26, 25
<b>Right Front Door Trigger</b>			
<b>Left Rear Door Trigger</b>			
<b>Right Rear Door Trigger</b>			
<b>Dome Supervision</b>	red/blue	+	General Module, middle plug, pin 18
<b>Trunk/Hatch Pin</b>	white/brown	-	driver kick or light in trunk
<b>Rear Glass Pin</b>			
<b>Hood Pin</b>	purple/green	-	General Module, left plug, pin 7
<b>Trunk Hatch/Release</b>	gray/brown	-	General Module, middle plug, pin 6
<b>Trunk Release Motor</b>			
<b>Fuel Door Release</b>			
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>			
<b>Factory Alarm Arm</b>	blue/red	-	General Module, middle plug, pin 22
<b>Factory Alarm Disarm</b>	white/black	-	General Module, middle plug, pin 20
<b>Disarm No Unlock</b>			
<b>Trunk Alarm Shunt</b>			
<b>Tachometer</b>	black	ac	OBD socket under driver dash, pin 9
<b>Wait to Start</b>	N/A		
<b>Neutral Safety</b>			
<b>Clutch Pedal</b>			
<b>Fuel Pump</b>			
<b>Rear Defroster</b>			
<b>Mirror Defroster</b>			
<b>Left Front Heated Seat</b>			
<b>Right Front Heated Seat</b>			

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
<b>Speed Sense</b>	yellow/green		ABS mod, pin 10 or cluster, pin 6
<b>Brake Wire</b>	brown/gray (functions with ignition on only)	+	brake switch, 4 pin plug, pin 3
<b>Parking Brake</b>	blue/brown/yellow	-	parking brake sw or cluster, pin 2
<b>Horn Trigger</b>	purple/blue	+	horns under the hood
<b>Wipers</b>	black/white	-	General Module, middle plug, pin 3
<b>Left Front Window (Up/Down)</b>	black/green - blue/gray		General Mod, right plug, pins 14, 7
<b>Right Front Window (Up/Down)</b>	black/purple - blue/purple		General Mod, right plug, pins 13, 6
<b>Left Rear Window (Up/Down)</b>	N/A		
<b>Right Rear Window (Up/Down)</b>	N/A		
<b>Sun Roof (Open/Close)</b>	brown/red - brown/purple	-	convertible top switch
<b>Sun Roof (Limit/Close)</b>	N/A		
<b>Memory Seat 1</b>	N/A		
<b>Memory Seat 2</b>	N/A		
<b>Memory Seat 3</b>	N/A		
<b>Radio 12V</b>	red/yellow	+	radio harness
<b>Radio Ground</b>	brown	-	radio harness
<b>Radio Ignition</b>	purple/white	+	radio harness
<b>Radio Illumination</b>	gray/red (dimmer)	+	radio harness
<b>Factory Amp Turn-on</b>	same as power antenna wire		
<b>Power Antenna</b>	white	+	radio harness
<b>Left Front Speaker (+/-)</b>	yellow/red - yellow/brown	+,-	radio harness
<b>Right Front Speaker (+/-)</b>	blue/red - blue/brown	+,-	radio harness
<b>Left Rear Speaker (+/-)</b>	yellow/purple - yellow/gray	+,-	radio harness
<b>Right Rear Speaker (+/-)</b>	blue/purple - blue/gray	+,-	radio harness
<b>Center Channel (+/-)</b>			
<b>Subwoofer (+/-)</b>			
<b>Aux. Audio Input Left (+/-)</b>			
<b>Aux. Audio Input Right (+/-)</b>			
<b>RSE Video (+/-)</b>			
<b>RSE Audio Left (+/-)</b>			
<b>RSE Audio Right (+/-)</b>			
<b>Satellite Radio 12 Volts</b>			
<b>Satellite Radio Ground</b>			
<b>Satellite Radio Ignition</b>			
<b>Satellite Radio Antenna</b>			
<b>Satellite Audio Left (+/-)</b>			
<b>Satellite Audio Right (+/-)</b>			

*What Fits*

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Item	Size	Depth	Location
<b>Headunit</b>			
<b>Left Front Speaker</b>			
<b>Left Front Tweeter</b>			
<b>Right Front Speaker</b>			
<b>Right Front Tweeter</b>			
<b>Left Rear Speaker</b>			
<b>Left Rear Tweeter</b>			
<b>Right Rear Speaker</b>			
<b>Right Rear Tweeter</b>			
<b>Center Channel</b>			
<b>Subwoofer</b>			
<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>			

*Additional Wiring Notes*

Item	Note
<b>Power Lock</b>	Negative pulses on this wire will alternate between lock and unlock. Can also use the factory alarm arm and disarm wires. The General Module is behind the glovebox.
<b>Left Front Speaker (+/-)</b>	If equipped, the amplifier is in the passenger side of the trunk.
<b>Trunk Hatch/Release</b>	The trunk release motor wire is gray/green (+) at the General Module, middle plug, pin 17. The General Module is behind the glovebox.
<b>Lock Motor</b>	The General Module is behind the glovebox.
<b>Passenger Unlock Motor</b>	The General Module is behind the glovebox.
<b>Left Front Door Trigger</b>	Use both wires and diode isolate each. The General Module is behind the glovebox.
<b>Right Front Window (Up/Down)</b>	The General Module is behind the glovebox.
<b>Parking Lights (+)</b>	The light switch module is attached to the back of the headlight switch.
<b>Turn Signal (Right)</b>	The light switch module is attached to the back of the headlight switch.
<b>Turn Signal (Left)</b>	The light switch module is attached to the back of the headlight switch.
<b>Factory Alarm Arm</b>	Meter this wire while turning the key in the driver door key cylinder. This wire will also lock the doors. The General Module is behind the glovebox.
<b>Factory Alarm Disarm</b>	Meter this wire while turning the key in the driver door key cylinder. This wire will also unlock the doors. The General Module is behind the glovebox.
<b>Sun Roof (Open/Close)</b>	These wires will only function with the ignition on.
<b>Driver Unlock Motor</b>	The General Module is behind the glovebox.
<b>Dome Supervision</b>	The General Module is behind the glovebox.
<b>Wipers</b>	The General Module is behind the glovebox.
<b>Left Front Window (Up/Down)</b>	The General Module is behind the glovebox.
<b>Hood Pin</b>	The General Module is behind the glovebox.
<b>Hazards</b>	The light switch module is attached to the back of the headlight switch.
<b>Speed Sense</b>	The ABS module is in the rear driver side of the engine compartment.
<b>Headlight</b>	The light switch module is attached to the back of the headlight switch.