

2005 BMW Z4



Wiring Information

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

Wiring Information (Continued)

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

Wiring Information (Continued)

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

What Fits

Item	Size	Depth	Location
Headunit			
Left Front Speaker			
Left Front Tweeter			
Right Front Speaker			
Right Front Tweeter			
Left Rear Speaker			
Left Rear Tweeter			
Right Rear Speaker			
Right Rear Tweeter			
Center Channel			
Subwoofer			
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			

Additional Wiring Notes

Item	Note
Driver Unlock Motor	The General Module is behind the glovebox.
Passenger Unlock Motor	The General Module is behind the glovebox.
Parking Lights (+)	The light switch module is attached to the back of the headlight switch.
Turn Signal (Left)	The light switch module is attached to the back of the headlight switch.
Left Front Door Trigger	Use both wires and diode isolate each. The General Module is behind the glovebox.
Hood Pin	The General Module is behind the glovebox.
Speed Sense	The ABS module is in the rear driver side of the engine compartment.
Left Front Window (Up/Down)	The General Module is behind the glovebox.
Left Front Speaker (+/-)	If equipped, the amplifier is in the passenger side of the trunk.
Power Lock	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.
Hazards	The light switch module is attached to the back of the headlight switch.
Factory Alarm Disarm	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.
Wipers	The General Module is behind the glovebox.
Lock Motor	The General Module is behind the glovebox.
Turn Signal (Right)	The light switch module is attached to the back of the headlight switch.
Dome Supervision	The General Module is behind the glovebox.
Trunk Hatch/Release	The trunk release motor wire is gray/green (+) at the General Module, middle plug, pin 17. The General Module is behind the glovebox.
Sun Roof (Open/Close)	These wires will only function with the ignition on.
Headlight	The light switch module is attached to the back of the headlight switch.
Factory Alarm Arm	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.
Right Front Window (Up/Down)	The General Module is behind the glovebox.