

2004 Mini Cooper



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (x2)(common 50A)	+	ignition harness
Second 12 Volts			
Starter	black/blue	+	ignition harness
Second Starter	N/A		
Ignition	green	+	ignition harness
Second Ignition	purple/black	+	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	-	GMCU, blue plug, pin 44
Power Unlock	yellow/brown	-	GMCU, blue plug, pin 42
Lock Motor	black	5wi	GMCU, black plug, pin 9
Unlock Motor	blue	5wi	GMCU, black plug, pin 20
Disarm Defeat	blue	5wi	GMCU, black plug, pin 38
Parking Lights (+)	each controlled separately		
Parking Lights (-)	black	-	GMCU, blue plug, pin 27
Hazards			
Turn Signal (Left)	blue/green (F), blue/green (R)	+	GMCU, white plug, pins 16 and 18
Turn Signal (Right)	blue/brown (F), blue/brown (R)	+	GMCU, white plug, pins 5 and 8

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	white	-	GMCU, blue plug, pin 6
AutoLights			
Reverse Light	blue/yellow	+	kick panel, harness to rear
Left Front Door Trigger	brn/gry/yel(D), brn/gry/yel(P)	-	GMCU, black plug, pins 22 and 42
Right Front Door Trigger			
Left Rear Door Trigger			
Right Rear Door Trigger			
Dome Supervision	brown/yellow	+	GMCU, black plug, pin 7
Trunk/Hatch Pin	gray/brown	-	GMCU, black plug, pin 6
Rear Glass Pin			
Hood Pin	purple/green	-	GMCU, black plug, pin 40
Trunk Hatch/Release	gray/brown	-	GMCU, black plug, pin 24
Trunk Release Motor			
Fuel Door Release			
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)			
Factory Alarm Arm	blue/red	-	GMCU, black plug, pin 21
Factory Alarm Disarm	white/black	-	GMCU, black plug, pin 3
Disarm No Unlock			
Trunk Alarm Shunt			
Tachometer	NOT red or red/stripe	ac	ignition coil or any fuel injector
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 module, pin 8
Brake Wire	blue/red or brown/gray	+	brake pedal switch
Parking Brake	blue/brown/yellow	-	parking brake switch
Horn Trigger	brown/yellow	-	horn switch
Wipers	black/green (L), black/brn (H)	+	windshield wiper motor
Left Front Window (Up/Down)	see notes		
Right Front Window (Up/Down)	see LF window up/dn notes		
Left Rear Window (Up/Down)	N/A		
Right Rear Window (Up/Down)	N/A		
Sun Roof (Open/Close)	see LF window up/dn notes		
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	red/brown	+	radio harness
Radio Ground	brown	-	radio harness
Radio Ignition	purple/blue	+	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 (+/-)	brown/black - blue/brown	+,-	radio harness
Left Rear Speaker (+/-)	yellow/black - 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
Power Lock	Meter this wire while pressing the door lock switch on the center dash. The GMCU (General Module Control Unit) is in the passenger kick panel.
Driver Unlock Motor	The GMCU (General Module Control Unit) is in the passenger kick panel.
Left Front Door Trigger	Use both wires and diode isolate each. The GMCU (General Module Control Unit) is in the passenger kick panel.
Factory Alarm Disarm	Meter this wire while turning the key in the driver door key cylinder. This wire will also unlock the doors. The GMCU (General Module Control Unit) is in the passenger kick panel.
Left Front Window (Up/Down)	Extended triggers on the factory alarm arm/disarm wires will roll the windows up/down and close the sunroof. Use validity channels to control.
Lock Motor	The GMCU (General Module Control Unit) is in the passenger kick panel.
Passenger Unlock Motor	The GMCU (General Module Control Unit) is in the passenger kick panel.
Turn Signal (Right)	The GMCU (General Module Control Unit) is in the passenger kick panel.
Headlight	The GMCU (General Module Control Unit) is in the passenger kick panel.
Dome Supervision	The GMCU (General Module Control Unit) is in the passenger kick panel.
Trunk/Hatch Pin	The GMCU (General Module Control Unit) is in the passenger kick panel.
Factory Alarm Arm	Meter this wire while turning the key in the driver door key cylinder. This wire will also lock the doors. The GMCU (General Module Control Unit) is in the passenger kick panel.
Power Unlock	Meter this wire while pressing the door lock switch on the center dash. The GMCU (General Module Control Unit) is in the passenger kick panel.
Parking Lights (-)	The GMCU (General Module Control Unit) is in the passenger kick panel.
Turn Signal (Left)	The GMCU (General Module Control Unit) is in the passenger kick panel.
Hood Pin	The GMCU (General Module Control Unit) is in the passenger kick panel.
Trunk Hatch/Release	Meter this wire while opening the hatch from the handle on the hatch. The hatch release motor wire is gray/green (+) at the GMCU, black plug, pin 2. The GMCU (General Module Control Unit) is in the passenger kick panel.
Left Front Speaker (+/-)	If equipped, the amplifier is in the passenger side of the cargo area.
Speed Sense	The ABS module is in the rear passenger side of the engine compartment.