

2009 Mercedes Benz CLS Class (W219)



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (20A)	+	Electronic Ignition Switch, 5 pin plug (C), pin 1
Second 12 Volts	red (150A)	+	driver dash fuse box
Starter	purple/white (for starter kill only)	+	underhood fuse box, 6 pin plug (B2), pin 5
Second Starter	N/A		
Ignition	pink/red (for ignition sense only)	+ low curr	Electronic Ignition Switch, 5 pin plug (C), pin 2
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	brown/red	data	Central Gateway Module, 10 pin plug, pin 10
Can Bus Low	brown	data	Central Gateway Module, 10 pin plug, pin 9
Can Bus Sw	N/A		
Power Lock	(CAN bus)		
Power Unlock	(CAN bus)		
Lock Motor	black	5 wire	Left Front Door Module, plug (C5), pin 3
Unlock Motor	red	5 wire	Left Front Door Module, plug (C5), pin 2
Disarm Defeat	red	5 wire	Right Front Door Module, plug (C5), pin 2
Parking Lights (+)	gray/black (LF), gray/red (RF)	+	underhood fuse box, 4 pin plug (I12), pins 1 and 2
Parking Lights (-)			
Hazards	(CAN bus)		
Turn Signal (Left)	black/white (LF)	+	underhood fuse box, 10 pin plug (M3), pin 5
Turn Signal (Right)	black/green (RF)	+	Passenger Side SAM Module, 6 pin plug (I3), pin 1

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	yellow/black (L)	+	underhood fuse box, 10 pin plug (M3), pin 2
AutoLights			
Reverse Light	gray/yellow	+	trunk fuse box, 14 pin plug (C14), pin 8
Left Front Door Trigger	brown/yellow	-	trunk fuse box, 12 pin plug (C2), pin 9
Right Front Door Trigger	brown/white	-	trunk fuse box, 12 pin plug (C2), pin 8
Left Rear Door Trigger	brown/blue	-	trunk fuse box, 12 pin plug (C2), pin 11
Right Rear Door Trigger	brown/purple	-	trunk fuse box, 12 pin plug (C2), pin 10
Dome Supervision	(CAN bus)		
Trunk/Hatch Pin	green	-	trunk fuse box, 28 pin plug (C21), pin 4
Rear Glass Pin	N/A		
Hood Pin	brown/red	-	trunk fuse box, 6 pin plug (C4), pin 1
Trunk Hatch/Release	gray/yellow	-	trunk fuse box, 28 pin plug (C21), pin 5
Trunk Release Motor	red/brown or gray/pink	5 wire	trunk fuse box, 28 pin plug (C21), pin 11 or 7
Fuel Door Release	brown or red/yellow	5 wire	trunk fuse box, 4 pin plug (C13), pin 2 or 3
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	factory remote only		
Factory Alarm Disarm	factory remote only		
Disarm No Unlock			
Trunk Alarm Shunt	N/A		
Tachometer	white/stripes	ac	any fuel injector
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	N/A		
Fuel Pump	red/green	+	trunk fuse box, 7 pin plug (C1), pin 3
Rear Defroster	red	+ latched	trunk fuse box, 5 pin plug (C20), pin 5
Mirror Defroster	(CAN bus)		
Left Front Heated Seat	white/green (without seat ventilation)	5 wire	Passenger Side SAM Module, 4 pin plug (I5), pin 1
Right Front Heated Seat	white/gray (without seat ventilation)	5 wire	Passenger Side SAM Module, 4 pin plug (I5), pin 3

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense			
Brake Wire	black/pink (functions with ignition on only)	+	trunk fuse box, 28 pin plug (C21), pin 22
Parking Brake	brown/white	-	parking brake switch, 2 pin plug, pin 1
Horn Trigger	yellow	+	underhood fuse box, 14 pin plug (M2), pin 10
Wipers	(data bus)		
Left Front Window (Up/Down)			
Right Front Window (Up/Down)			
Left Rear Window (Up/Down)			
Right Rear Window (Up/Down)			
Sun Roof (Open/Close)			
Sun Roof (Limit/Close)			
Memory Seat 1	(data bus)		
Memory Seat 2	(data bus)		
Memory Seat 3	(data bus)		
Radio 12V	red/yellow	+	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	pink (MOST wake up)		radio, 16 pin plug, pin 16
Power Antenna	N/A		
Left Front Speaker (+/-)	red - brown/red	+,-	amplifier, 32 pin plug, pins 6 and 18
Right Front Speaker (+/-)	white - brown/white	+,-	amplifier, 32 pin plug, pins 5 and 17
Left Rear Speaker (+/-)	yellow - brown/yellow	+,-	amplifier, 32 pin plug, pins 8 and 20
Right Rear Speaker (+/-)	pink - brown/pink	+,-	amplifier, 32 pin plug, pins 7 and 19
Center Channel (+/-)	blue - brown/blue	+,-	amplifier, 32 pin plug, pins 23 and 28
Subwoofer (+/-)	white - brown	+,-	amplifier, 32 pin plug, pins 24 and 29
Aux. Audio Input Left (+/-)	black - brown	+,-	radio, 12 pin plug, pins 4 and 9
Aux. Audio Input Right (+/-)	yellow - brown	+,-	radio, 12 pin plug, pins 10 and 9
RSE Video (+/-)	N/A		
RSE Audio Left (+/-)	N/A		
RSE Audio Right (+/-)	N/A		
Satellite Radio 12 Volts	red/green	+	Satellite Radio Control Unit, 3 pin plug, pin 2
Satellite Radio Ground	brown	-	Satellite Radio Control Unit, 3 pin plug, pin 1
Satellite Radio Ignition	pink (MOST wake up)		Satellite Radio Control Unit, 3 pin plug, pin 3
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	(MOST bus)		
Satellite Audio Right (+/-)	(MOST bus)		

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 door
Left Rear Tweeter			left rear door; left rear deck (surround)
Right Rear Speaker			right rear door
Right Rear Tweeter			right rear door; right rear deck (surround)
Center Channel			top center of dash
Subwoofer			top center of rear deck
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			right side of luggage compartment

Additional Wiring Notes

Item	Note
Trunk Hatch/Release	Meter this wire while opening the luggage compartment from the handle on the rear of the vehicle.
Turn Signal (Right)	The Passenger Side SAM Module is on the front passenger floorboard. The RR wire is blue/black at the trunk fuse box, 14 pin plug (C14), pin 3.
Parking Lights (+)	The LR - RR wires are gray/black - gray/red at the trunk fuse box, 14 pin plug (C14), pins 9 and 12.
Turn Signal (Left)	The LR wire is green/black at the trunk fuse box, 14 pin plug (C14), pin 11.
Headlight	The R headlight wire is yellow at the Passenger Side SAM Module, 6 pin plug (I3), pin 6. The Passenger Side SAM Module is on the front passenger floorboard.
Left Front Heated Seat	The Passenger Side SAM Module is on the front passenger floorboard.
Right Front Heated Seat	The Passenger Side SAM Module is on the front passenger floorboard.
Subwoofer (+/-)	The amplifier is in the left side of the luggage compartment. The subwoofer amp turn on wire is purple at the amplifier, 32 pin plug, pin 31.
Can Bus High	The Central Gateway Module is under the driver dash.
Can Bus Low	The Central Gateway Module is under the driver dash.
Left Rear Speaker (+/-)	The amplifier is in the left side of the luggage compartment. The surround speaker wires are green - brown/green at the amplifier, 32 pin plug, pins 10 and 22.
Right Rear Speaker (+/-)	The amplifier is in the left side of the luggage compartment. The surround speaker wires are gray - brown/gray at the amplifier, 32 pin plug, pins 9 and 21.
Left Front Speaker (+/-)	The amplifier is in the left side of the luggage compartment.
Right Front Speaker (+/-)	The amplifier is in the left side of the luggage compartment.
Center Channel (+/-)	The amplifier is in the left side of the luggage compartment.
Satellite Radio 12 Volts	The Satellite Radio Control Unit is in the right side of the luggage compartment.