

2014 Mercedes Benz CLA Class (C117)



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/green (40A)	+	SAM Control Unit under driver dash, 4 pin plug, pin 1
Second 12 Volts	N/A		
Starter	purple/white (for starter kill only)	+	underhood fuse box, plug (MR1), pin 13
Second Starter	N/A		
Ignition	black/blue (for ignition sense only)	+	SAM Control Unit under driver dash, 24 pin plug (UH2), pin 5
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 (CAN-B)	data	SAM Control Unit under driver dash, 48 pin plug (B2), pin 47
Can Bus Low	brown (CAN-B)	data	SAM Control Unit under driver dash, 48 pin plug (B2), pin 46
Can Bus Sw	N/A		
Power Lock	gray/blue	- resistor	Left Front Door Control Unit, plug (C5), pin 4
Power Unlock	(same as power lock)	-	
Lock Motor	pink/yellow	5 wire	SAM Control Unit under driver dash, 48 pin plug (B2), pin 41
Unlock Motor	green	5 wire	Left Front Door Control Unit, plug (C7), pin 6
Disarm Defeat	pink/blue	5 wire	SAM Control Unit under driver dash, 48 pin plug (B2), pin 39
Parking Lights (+)	blue/black (LF); blue/red (RF)	+	SAM Cntrl Unit, 24 pin plug (UH1), pin 21; 24 pin plug (UH2), pin 10
Parking Lights (-)	(CAN bus)		
Hazards	(LIN bus)		
Turn Signal (Left)	black/white (F); yellow/white (R)	+	SAM Cntrl Unit, 24 pin plug (UH1), pin 4; 47 pin plug (B1), pin 39
Turn Signal (Right)	black/green (F); gray/red (R)	+	SAM Cntrl Unit, 24 pin plug (UH2), pin 24; 48 pin plug (B2), pin 3

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	yellow (L); yellow (R)	+	SAM Cntrl Unit, 24 pin plug (UH2), pin 15; 24 pin plug (UH1), pin 3
AutoLights	(CAN bus)		
Reverse Light	gray/yellow	+	SAM Control Unit under driver dash, 47 pin plug (B1), pin 25
Left Front Door Trigger	brown/pink	-	Left Front Door Control Unit, plug (C7), pin 9
Right Front Door Trigger	brown/pink	-	Right Front Door Control Unit, plug (C7), pin 9
Left Rear Door Trigger	pink/white	-	SAM Control Unit, 47 pin plug (B1), pin 23
Right Rear Door Trigger	white	-	SAM Control Unit, 47 pin plug (B1), pin 19
Dome Supervision	(LIN bus)		
Trunk/Hatch Pin	yellow/green	-	SAM Control Unit under driver dash, 47 pin plug (B1), pin 21
Rear Glass Pin	N/A		
Hood Pin	N/A		
Trunk Hatch/Release	gray/black (rear handle switch)	-	SAM Control Unit under driver dash, 47 pin plug (B1), pin 9
Trunk Release Motor	purple	5 wire	SAM Control Unit under driver dash, 48 pin plug (B2), pin 1
Fuel Door Release	yellow/blue or yellow/green(fuel door lock/unlock)	5 wire	SAM Control Unit under driv dash, 48 pin plug (B2), pin 28 or 40
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	N/A		
Trunk Alarm Shunt	N/A		
Tachometer	brown/black, black/red, brown/blue, or blue/green	ac	any fuel injector, 2 pin plug, pin 2
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	N/A		
Fuel Pump	black/purple	+	passenger kick fuse box, plug (P2), pin 8
Rear Defroster	yellow/red	+ latched	passenger kick fuse box, plug (P3), pin 12
Mirror Defroster	(CAN bus)		
Left Front Heated Seat	(LIN bus)		
Right Front Heated Seat	(LIN bus)		

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	(wheel speed sensor)		
Brake Wire	black/red	+	SAM Control Unit under driver dash, 24 pin plug (UH2), pin 3
Parking Brake	(electric parking brake)		
Horn Trigger	yellow/black	+	SAM Control Unit under driver dash, 24 pin plug (UH2), pin 17
Wipers	yellow/purple	+	SAM Control Unit under driver dash, 24 pin plug (UH2), pin 18
Left Front Window (Up/Down)	(not recommended because of factory auto up/down)		
Right Front Window (Up/Down)	(not recommended because of factory auto up/down)		
Left Rear Window (Up/Down)	(not recommended because of factory auto up/down)		
Right Rear Window (Up/Down)	(not recommended because of factory auto up/down)		
Sun Roof (Open/Close)	(LIN bus)		
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	(LIN bus)		
Memory Seat 2	(LIN bus)		
Memory Seat 3	(LIN bus)		
Radio 12V	red/green	+	radio, 16 pin plug, pin 15
Radio Ground	brown	-	radio, 16 pin plug, pin 12
Radio Ignition	(CAN bus)		
Radio Illumination	N/A		
Factory Amp Turn-on	(MOST bus)		
Power Antenna	N/A		
Left Front Speaker (+/-)	brown/green - green	+,-	radio, 8 pin plug, pins 3 - 7
Right Front Speaker (+/-)	brown/orange - orange	+,-	radio, 8 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	white - brown/white	+,-	radio, 8 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	pink - brown/pink	+,-	radio, 8 pin plug, pins 1 - 5
Center Channel (+/-)	gray - brown/gray or blue/gray	+,-	amplifier in trunk right side, 32 pin plug, pins 23 - 28
Subwoofer (+/-)	blue - brown/blue (1); red - brown/red (2)	+,-	amplifier in trunk right side, 32 pin plug, pins 3 - 15; 4 - 16
Aux. Audio Input Left (+/-)	black - brown	+,-	radio, 12 pin plug, pins 4 - 11
Aux. Audio Input Right (+/-)	yellow - brown	+,-	radio, 12 pin plug, pins 10 - 11
RSE Video (+/-)	(digital video)		
RSE Audio Left (+/-)	(MOST bus)		
RSE Audio Right (+/-)	(MOST bus)		
Satellite Radio 12 Volts	brown	+	satellite radio, 4 pin plug, pin 2
Satellite Radio Ground	brown	-	satellite radio, 4 pin plug, pin 1
Satellite Radio Ignition	(MOST bus)		
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 (tweeter); rear deck (surround)
Right Rear Speaker			right rear door
Right Rear Tweeter			right rear door (tweeter); rear deck (surround)
Center Channel			top center of dash
Subwoofer			rear deck
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			

Additional Wiring Notes

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are brown/green - green at the amplifier in trunk right side, 32 pin plug, pins 6 - 18.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are brown/orange - orange at the amplifier in trunk right side, 32 pin plug, pins 5 - 17.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are purple - brown/purple (door); yellow - brown/yellow (surround) at the amplifier in trunk right side, 32 pin plug, pins 8 - 20; 10 - 22.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are white - brown/white (door); pink - brown/pink (surround) at the amplifier in trunk right side, 32 pin plug, pins 7 - 19; 9 - 21.
Parking Lights (+)	The LR - RR are black/orange - gray/pink (+) at the SAM Control Unit under driver dash, 48 pin plug (B2), pin 19; 47 pin plug (B1), pin 30.