**2020 MercedesBenz CClass(W205) - Requested by: ampire.de**

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## *Wiring Information*

| Item | Wire Color | Polarity | Wire Location |
|------|-----------|----------|---------------|
| 12 Volts | Red (50A) | + | Front SAM Control Unit under driver dash, 2 pin plug, pin 1 |
| Ground | (chassis ground) | | |
| Starter Kill | Violet | + | Underhood Fuse/Relay Box, 6 pin plug (S4), pin 3 |
| Ignition Sense | Black/Red | + | Front SAM Control Unit under driver dash, 31 pin plug (MR2), pin 29 |
| CAN Bus High | Brown/Red (CAN B) | Data | Front SAM Control Unit under driver dash, 52 pin plug (RBA1), pin 42 |
| CAN Bus Low | Brown (CAN B) | Data | Front SAM Control Unit under driver dash, 52 pin plug (RBA1), pin 43 |
| CAN Bus High 2 | Gray/White (CAN D) | Data | OBD-Data Link Connector, 16 pin plug, pin 6 |
| CAN Bus Low 2 | Gray (CAN D) | Data | OBD-Data Link Connector, 16 pin plug, pin 14 |
| OBD 12 Volts | Red/Green (5A) | + | OBD-Data Link Connector, 16 pin plug, pin 16 |
| OBD Ground | Brown | - | OBD-Data Link Connector, 16 pin plug, pin 4 |
| Power Lock | Yellow | - Resistor | Left Front Door Control Unit, 10 pin plug (C5), pin 4 |
| Power Unlock | (same as power lock) | - | |
| Lock Motor | Orange | Reverse | Left Front Door Control Unit, 10 pin plug (C7), pin 7 |
| Driver Unlock Motor | Gray | Reverse | Left Front Door Control Unit, 10 pin plug (C7), pin 6 |
| Passenger Unlock Motor | Gray | Reverse | Right Front Door Control Unit, 10 pin plug (C7), pin 6 |
| Factory Alarm Arm | (factory remote only) | | |
| Factory Alarm Disarm | (factory remote only) | | |
| Parking Lights | Blue/Green (LF); Gray/Yellow (RF) | + | Front SAM Control Unit under driver dash, 31 pin plug (MR1), pin 29 (LF); 31 pin plug (MR2), pin 17 (RF) |

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| Item | Wire Color | Polarity | Wire Location |
|---|---|---|---|
| Parking Lights 2 | Black/Violet (LR); Gray/Blue (RR) | + | Rear SAM Control Unit in trunk right side, 28 pin plug (HR), pin 6 (LR); 20 pin plug (HL), pin 10 (RR) |
| Parking Lights MUX | Green | MUX | Front SAM Control Unit under driver dash, 28 pin plug (COC), pin 23 |
| Hazards | (LIN) | | |
| Turn Signal (Left) | Blue/Brown (LF) (w/o LED only); Black/White (LR) | + | Front SAM Control Unit, 31 pin plug (MR1), pin 10 (LF); Rear SAM Control Unit, 20 pin plug (HL), pin 18 (LR) |
| Turn Signal (Right) | Gray/Violet (RF) (w/o LED only); Black/Green (RR) | + | Front SAM Control Unit, 31 pin plug (MR2), pin 4 (RF); Rear SAM Control Unit, 28 pin plug (HR), pin 10 (RR) |
| Headlight | Gray/Orange (L); Gray/Pink (R) (w/o LED only) | + | Front SAM Control Unit under driver dash, 31 pin plug (MR1), pin 7 (L); 31 pin plug (MR2), pin 2 (R) |
| AutoLights | Violet | MUX | Front SAM Control Unit under driver dash, 28 pin plug (COC), pin 20 |
| Reverse Light | Black/Green or Black/Blue | + | Rear SAM Control Unit in trunk right side, 20 pin plug (HL), pin 15 |
| Left Front Door Trigger | Blue | - | Left Front Door Control Unit, 10 pin plug (C7), pin 9 |
| Right Front Door Trigger | Blue | - | Right Front Door Control Unit, 10 pin plug (C7), pin 9 |
| Left Rear Door Trigger | Blue | - | Left Rear Door Control Unit, 10 pin plug (C7), pin 9 |
| Right Rear Door Trigger | Blue | - | Right Rear Door Control Unit, 10 pin plug (C7), pin 9 |
| Dome Light | (CAN B) | | |
| Trunk/Hatch Pin | Blue/Brown | - | Rear SAM Control Unit in trunk right side, 48 pin plug (HD), pin 36 |
| Hood Pin | Blue | - | Front SAM Control Unit under driver dash, 52 pin plug (RBA1), pin 47 |
| Trunk/Hatch Release | Green/White or Green/Violet (rear handle switch) | - | Rear SAM Control Unit in trunk right side, 48 pin plug (HD), pin 37 |

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| Item | Wire Color | Polarity | Wire Location |
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| Trunk Release Motor | Blue/Red | Reverse | Rear SAM Control Unit in trunk right side, 48 pin plug (HD), pin 45 |
| Fuel Door Release | (locks/unlocks along with doors) | | |
| Tachometer | Red/Black (I4); Yellow/White (V6) | AC | Camshaft Position Sensor, engine driver side front, 3 pin plug, pin 2 |
| Fuel Pump | Pink/Black | + | Trunk Fuse/Relay Box, plug (S11), pin 5 |
| Rear Defroster | Violet/Green | + Latched | Rear SAM Control Unit in trunk right side, 28 pin plug (HR), pin 27 |
| Mirror Defroster | (CAN B) | | |
| Left Front Heated Seat | (LIN) | | |
| Right Front Heated Seat | (LIN) | | |
| Speed Sense | (wheel speed sensor) | | |
| Brake Wire | Black/White | + | Rear SAM Control Unit in trunk right side, 52 pin plug (RBA1), pin 38 |
| Parking Brake | (electric parking brake) | | |
| Horn Trigger | Yellow/Green | + | Front SAM Control Unit under driver dash, 31 pin plug (MR2), pin 30 |
| Wipers | (LIN) | | |
| All Windows Up-Down | (not recommended because of factory auto up/down) | | |
| Sun Roof (Open/Close) | (LIN) | | |
| Memory Seat 1 | (LIN) | | |
| Memory Seat 2 | (LIN) | | |
| Memory Seat 3 | (LIN) | | |
| Radio 12V | Red | + | Radio, 16 pin plug, pin 15 |
| Radio Ground | Brown | - | Radio, 16 pin plug, pin 12 |
| Radio Ignition | (CAN HMI) | | |
| Factory Amp Turn-on | Orange (MOST Wake Up) | | Radio, 16 pin plug, pin 16 |
| Left Front Speaker (+/-) | Blue/Black - Blue | +,- | Radio, 8 pin plug, pins 3 - 7 |
| Right Front Speaker (+/-) | Green/Black - Green | +,- | Radio, 8 pin plug, pins 2 - 6 |
| Left Rear Speaker (+/-) | White/Black - White | +,- | Radio, 8 pin plug, pins 4 - 8 |
| Right Rear Speaker (+/-) | Gray/Black - Gray | +,- | Radio, 8 pin plug, pins 1 - 5 |

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| Subwoofer (+/-) | Violet/Black - Violet (front bass) | +,- | Radio, 8 pin plug, pins 3 - 6 |
| Left Front Speaker - With Amp | Blue - Blue/Black | +,- | Amplifier in trunk right side, 32 pin plug, pins 13 - 14 |
| Right Front Speaker - With Amp | Green/Black - Green | +,- | Amplifier in trunk right side, 32 pin plug, pins 5 - 17 |
| Left Rear Speaker - With Amp | Orange/Black - Orange | +,- | Amplifier in trunk right side, 32 pin plug, pins 7 - 19 |
| Right Rear Speaker - With Amp | Brown/Black - Brown | +,- | Amplifier in trunk right side, 32 pin plug, pins 8 - 20 |
| Left Rear Surround - With Amp | White/Black - White | +,- | Amplifier in trunk right side, 32 pin plug, pins 9 - 21 |
| Right Rear Surround - With Amp | Yellow/Black - Yellow | +,- | Amplifier in trunk right side, 32 pin plug, pins 10 - 22 |
| Center Channel - With Amp | Gray/Black - Gray | +,- | Amplifier in trunk right side, 32 pin plug, pins 12 - 11 |
| Subwoofer - With Amp | Pink/Black - Pink (L); Violet/Black - Violet (R) (front bass) | +,- | Amplifier in trunk right side, 32 pin plug, pins 3 - 15 (L); pins 4 - 16 (R) |
| Rearview Camera Video | (LVDS) | | |

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### *What Fits*

| Item | Size | Depth | Location |
|------|------|-------|----------|