

## 2008 Mercedes Benz ML Class (W164)



### Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red (70A)	+	Front SAM under passenger seat, 3 pin plug (B), pin 1
<b>Second 12 Volts</b>	red (70A)	+	Front SAM under pass seat, 3 pin plug (B), pin 3
<b>Starter</b>	pink, red/wht, or gray/wht (for starter kill only)	+	underhood fuse box, white 10 pin plug (MR4), pin 4
<b>Second Starter</b>	N/A		
<b>Ignition</b>	pink (for ignition sense only)	+	Front SAM under passenger seat, 40 pin plug (C), pin 11
<b>Second Ignition</b>	N/A		
<b>Third Ignition</b>	N/A		
<b>Accessory</b>	N/A		
<b>Second Accessory</b>	N/A		
<b>Third Accessory</b>	N/A		
<b>Key Sense</b>	N/A		
<b>Data Bus</b>	N/A		
<b>Can Bus High</b>	brown/red	data	driver kick, harness to rear
<b>Can Bus Low</b>	brown	data	driver kick, harness to rear
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	(ribbon harness)	-	Left Front Door Module, 4 pin plug (3A), pin 3
<b>Power Unlock</b>	(same as power lock)	- resistor	
<b>Lock Motor</b>	white	5 wire	Rear SAM in right rear quarter panel, 40 pin plug (G), pin 38
<b>Unlock Motor</b>	pink/black	5 wire	Left Front Door Module, 6 pin plug (C4), pin 5
<b>Disarm Defeat</b>	purple/black	5 wire	Rear SAM in right rear quarter panel, 40 pin plug (G), pin 37
<b>Parking Lights (+)</b>	red/white or green/white (LF), purple/white (RF)	+	Front SAM under passenger seat, 40 pin plug (C), pins 35, 37
<b>Parking Lights (-)</b>	(LIN bus)		
<b>Hazards</b>	(CAN bus)		
<b>Turn Signal (Left)</b>	blue/white or green/blue (LF); black (LR)	+	Front SAM, 40 pin plg (C), pin 32; Rear SAM, 10 pin plug (D), pin 1
<b>Turn Signal (Right)</b>	pink/white (RF); green/black (RR)	+	Front SAM, 40 pin plg (C), pin 31; Rear SAM, 10 pin plug (D), pin 6

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	purple or yellow/black (L); gray/white (R)	+	Front SAM under pass seat, 10 pin plg(A), pin 7; 10 pin plg(D), pin 10
<b>AutoLights</b>	(LIN bus)		
<b>Reverse Light</b>	white	+	Rear SAM in right rear quarter panel, 10 pin plug (D), pin 3
<b>Left Front Door Trigger</b>	black/blue	-	Rear SAM in right rear quarter panel, 52 pin plug (C), pin 14
<b>Right Front Door Trigger</b>	brown/black	-	Rear SAM in RR qrtr panel, 52 pin plug (C), pin 1
<b>Left Rear Door Trigger</b>	pink/black	-	Rear SAM in RR qrtr panel, 52 pin plug (C), pin 8
<b>Right Rear Door Trigger</b>	purple	-	Rear SAM in RR qrtr panel, 52 pin plug (C), pin 4
<b>Dome Supervision</b>	(CAN bus)		
<b>Trunk/Hatch Pin</b>			
<b>Rear Glass Pin</b>	N/A		
<b>Hood Pin</b>	blue	-	Rear SAM in right rear quarter panel, 52 pin plug (C), pin 5
<b>Trunk Hatch/Release</b>	yellow (rear handle switch)	-	Rear SAM in right rear quarter panel, 18 pin plug (F), pin 1
<b>Trunk Release Motor</b>			
<b>Fuel Door Release</b>	gray/white or green/white	5 wire	Rear SAM in right rear quarter panel, 40 pin plg(G), pin 34 or 35
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>	N/A		
<b>Factory Alarm Arm</b>	(factory remote only)		
<b>Factory Alarm Disarm</b>	(factory remote only)		
<b>Disarm No Unlock</b>			
<b>Trunk Alarm Shunt</b>	N/A		
<b>Tachometer</b>	white/stripe or black/stripe	ac	any fuel injector
<b>Wait to Start</b>	N/A		
<b>Neutral Safety</b>	N/A		
<b>Clutch Pedal</b>	N/A		
<b>Fuel Pump</b>	black/white (gas); red/white (diesel)	+	trunk fuse box, plug (P5), pin 8; plug (P6), pin 1
<b>Rear Defroster</b>	blue/black	- latched	Rear SAM in right rear quarter panel, 40 pin plug (G), pin 11
<b>Mirror Defroster</b>	(CAN bus)		
<b>Left Front Heated Seat</b>	blue/black	5 wire	Front SAM under passenger seat, 10 pin plug (A), pin 1
<b>Right Front Heated Seat</b>	green/white	5 wire	Front SAM under passenger seat, 10 pin plug (A), pin 3

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Speed Sense</b>	(wheel speed sensor)		
<b>Brake Wire</b>	blue/black (functions with ignition on only)	+	Rear SAM in right rear quarter panel, 18 pin plug (F), pin 3
<b>Parking Brake</b>	black	-	park brake sw or Front SAM under pass seat, 40 pin plug (F), pin 31
<b>Horn Trigger</b>	blue/white	+	underhood fuse box, plug (MR3), pin 12
<b>Wipers</b>	green/black	-	Front SAM under passenger seat, 40 pin plug (C), pin 9
<b>Left Front Window (Up/Down)</b>	(not recommended because of factory auto up/down)		
<b>Right Front Window (Up/Down)</b>	(not recommended because of factory auto up/down)		
<b>Left Rear Window (Up/Down)</b>	(not recommended because of factory auto up/down)		
<b>Right Rear Window (Up/Down)</b>	(not recommended because of factory auto up/down)		
<b>Sun Roof (Open/Close)</b>	(not recommended because of factory auto open/cfs)		
<b>Sun Roof (Limit/Close)</b>	N/A		
<b>Memory Seat 1</b>			
<b>Memory Seat 2</b>			
<b>Memory Seat 3</b>			
<b>Radio 12V</b>	red/black	+	radio, 16 pin plug, pin 15
<b>Radio Ground</b>	brown	-	radio, 16 pin plug, pin 12
<b>Radio Ignition</b>	(CAN bus)		
<b>Radio Illumination</b>	(CAN bus)		
<b>Factory Amp Turn-on</b>	red/black (MOST wake up)		radio, 16 pin plug, pin 16
<b>Power Antenna</b>	gray/black	+	radio, 16 pin plug, pin 13
<b>Left Front Speaker (+/-)</b>	white/black - white	+,-	radio, 16 pin plug, pins 3 - 7
<b>Right Front Speaker (+/-)</b>	purple/black - purple	+,-	radio, 16 pin plug, pins 2 - 6
<b>Left Rear Speaker (+/-)</b>	yellow/black - yellow	+,-	radio, 16 pin plug, pins 4 - 8
<b>Right Rear Speaker (+/-)</b>	green/black - green	+,-	radio, 16 pin plug, pins 1 - 5
<b>Center Channel (+/-)</b>	gray/black - gray	+,-	amplifier under driver seat, 32 pin plug, pins 20 - 8
<b>Subwoofer (+/-)</b>	white/blue - green (1); black/white - gray/wht (2)	+,-	amplifier under driver seat, 32 pin plug, pins 16 - 4; 17 - 5
<b>Aux. Audio Input Left (+/-)</b>	black - brown	+,-	radio, 12 pin plug, pins 6 - 11
<b>Aux. Audio Input Right (+/-)</b>	yellow - brown	+,-	radio, 12 pin plug, pins 12 - 11
<b>RSE Video (+/-)</b>			
<b>RSE Audio Left (+/-)</b>	black - brown	+,-	radio, 12 pin plug, pins 6 - 11

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DirectWire Vehicle RSE Audio Right (+/-)	Information - 11/21/2013 3:42:00 AM yellow brown	+,-	radio, 12 pin plug, pins 12 - 11
Satellite Radio 12 Volts	red/black	+	Sat Radio under L 2nd row seat, 4 pin plug, pin 2
Satellite Radio Ground	brown	-	Sat Radio under L 2nd row seat, 4 pin plug, pin 1
Satellite Radio Ignition	red/black (MOST wake up)		Sat Radio under L 2nd row seat, 4 pin plug, pin 3
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	(MOST bus)		
Satellite Audio Right (+/-)	(MOST bus)		

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*What Fits*

Item	Size	Depth	Location
<b>Headunit</b>	irregular		center of dash
<b>Left Front Speaker</b>			left front door
<b>Left Front Tweeter</b>			left front door
<b>Right Front Speaker</b>			right front door
<b>Right Front Tweeter</b>			right front door
<b>Left Rear Speaker</b>			left rear door
<b>Left Rear Tweeter</b>			left rear door; left rear roof (surround)
<b>Right Rear Speaker</b>			right rear door
<b>Right Rear Tweeter</b>			right rear door; right rear roof (surround)
<b>Center Channel</b>			top center of dash
<b>Subwoofer</b>			center of luggage compartment floor
<b>Left Front Headrest</b>			
<b>Right Front Headrest</b>			
<b>Left Right Headrest</b>			
<b>Right Rear Headrest</b>			
<b>Satellite Radio Tuner</b>			under left 2nd row rear seat

*Additional Wiring Notes*


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Item	Note
<b>Parking Lights (+)</b>	The LR - RR are gray/black - gray/blue at the Rear SAM in right rear quarter panel, 10 pin plug (D), pins 5, 10.
<b>Left Front Speaker (+/-)</b>	On models with amplifier, the speaker wires are white/black - white (mid/high); blue - blue/black (low) at the amplifier under driver seat, 32 pin plug, pins 22 - 10; 19 - 7.
<b>Right Front Speaker (+/-)</b>	On models with amplifier, the speaker wires are purple/black - purple (mid/high); brown - brown/black (low) at the amplifier under driver seat, 32 pin plug, pins 21 - 9; 18 - 6.
<b>Left Rear Speaker (+/-)</b>	On models with amplifier, the speaker wires are yellow/black - yellow (door); black - white (surround) at the amplifier under driver seat, 32 pin plug, pins 31 - 26; 28 - 23.
<b>Right Rear Speaker (+/-)</b>	On models with amplifier, the speaker wires are green/black - green (door); black - orange (surround) at the amplifier under driver seat, 32 pin plug, pins 30 - 25; 29 - 24.