

## 2008 Mercedes Benz R Class (V251)



## Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (70A), red (70A)	+	Front SAM Module, 3 pin plug (B), pins 1 and 3
Second 12 Volts	red (60A), red (60A)	+	Rear SAM Module, 2 pin plugs (B) and (E), pin 1
Starter	red/white (for starter kill only)	+	underhood fuse box, plug (MR4), pin 4
Second Starter	N/A		
Ignition	pink (for ignition sense only)	+	Front SAM Module, 40 pin plug (C), pin 11
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	driver kick, harness to rear
Can Bus Low	brown	data	driver kick, harness to rear
Can Bus Sw	N/A		
Power Lock	(ribbon harness)	-	Left Front Door Module, 4 pin plug (3A), pin 3
Power Unlock	same as power lock	- resistor	
Lock Motor	white	5 wire	Rear SAM Module, 40 pin plug (G), pin 38
Unlock Motor	pink/black	5 wire	Left Front Door Module, 6 pin plug (C4), pin 5
Disarm Defeat	purple/black	5 wire	Rear SAM Module, 40 pin plug (G), pin 37
Parking Lights (+)	green/white (LF), purple/white (RF)	+	Front SAM Module, 40 pin plug (C), pins 35 and 37
Parking Lights (-)	(LIN bus)		
Hazards	(CAN bus)		
Turn Signal (Left)	blue/white or green/blue (LF)	+	Front SAM Module, 40 pin plug (C), pin 32
Turn Signal (Right)	pink/white (RF)	+	Front SAM Module, 40 pin plug (C), pin 31

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	purple (L); gray/white (R)	+	Front SAM Module, 10 pin plug (A), pin 7; 10 pin plug (D), pin 10
<b>AutoLights</b>			
<b>Reverse Light</b>	white	+	Rear SAM Module, 10 pin plug (D), pin 3
<b>Left Front Door Trigger</b>	brown/black or black/blue	-	Rear SAM Module, 52 pin plug (C), pin 14
<b>Right Front Door Trigger</b>	brown/black	-	Rear SAM Module, 52 pin plug (C), pin 1
<b>Left Rear Door Trigger</b>	pink/black	-	Rear SAM Module, 52 pin plug (C), pin 8
<b>Right Rear Door Trigger</b>	purple	-	Rear SAM Module, 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 Module, 52 pin plug (C), pin 5
<b>Trunk Hatch/Release</b>	yellow	-	Rear SAM Module, 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 Module, 40 pin plug (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	+	luggage compartment fuse box, plug (P5), pin 8
<b>Rear Defroster</b>	blue/black	- latched	Rear SAM Module, 40 pin plug (G), pin 11
<b>Mirror Defroster</b>	(CAN bus)		
<b>Left Front Heated Seat</b>	blue/black	5 wire	Front SAM Module, 10 pin plug (A), pin 1
<b>Right Front Heated Seat</b>	green/white	5 wire	Front SAM Module, 10 pin plug (A), pin 3

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Speed Sense</b>			
<b>Brake Wire</b>	blue/black (functions with ignition on only)	+	Rear SAM Module, 18 pin plug (F), pin 3
<b>Parking Brake</b>	black	-	parking brake switch or Front SAM Module, 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 Module, 40 pin plug (C), pin 9
<b>Left Front Window (Up/Down)</b>			
<b>Right Front Window (Up/Down)</b>			
<b>Left Rear Window (Up/Down)</b>			
<b>Right Rear Window (Up/Down)</b>			
<b>Sun Roof (Open/Close)</b>			
<b>Sun Roof (Limit/Close)</b>			
<b>Memory Seat 1</b>			
<b>Memory Seat 2</b>			
<b>Memory Seat 3</b>			
<b>Radio 12V</b>	red	+	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 and 7
<b>Right Front Speaker (+/-)</b>	purple/black - purple	+,-	radio, 16 pin plug, pins 2 and 6
<b>Left Rear Speaker (+/-)</b>	yellow/black - yellow	+,-	radio, 16 pin plug, pins 4 and 8
<b>Right Rear Speaker (+/-)</b>	green/black - green	+,-	radio, 16 pin plug, pins 1 and 5
<b>Center Channel (+/-)</b>	gray/black - gray	+,-	amplifier, 32 pin plug, pins 20 and 8
<b>Subwoofer (+/-)</b>	white/blue - green (1); black/white - gray/wht (2)	+,-	amplifier, 32 pin plug, pins 16 and 4; 17 and 5
<b>Aux. Audio Input Left (+/-)</b>	black - brown	+,-	radio, 12 pin plug, pins 6 and 11
<b>Aux. Audio Input Right (+/-)</b>	yellow - brown	+,-	radio, 12 pin plug, pins 12 and 11
<b>RSE Video (+/-)</b>			
<b>RSE Audio Left (+/-)</b>	black - brown	+,-	radio, 12 pin plug, pins 1 and 8
<b>RSE Audio Right (+/-)</b>	yellow - brown	+,-	radio, 12 pin plug, pins 7 and 8
<b>Satellite Radio 12 Volts</b>	red/black	+	Satellite Radio, 4 pin plug, pin 2

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DirectWire Vehicle Information - 7/26/2012 3:30:45 AM blown	-	Satellite Radio, 4 pin plug, pin 1
Satellite Radio Ground	red/black (MOST wake up)	Satellite Radio, 4 pin plug, pin 3
Satellite Radio Antenna	(coaxial cable)	
Satellite Audio Left (+/-)	(MOST bus)	
Satellite Audio Right (+/-)	(MOST bus)	

*What Fits*


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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 pillar (surround)
<b>Right Rear Speaker</b>			right rear door
<b>Right Rear Tweeter</b>			right rear door; right rear pillar (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>			right rear footwell

*Additional Wiring Notes*

Item	Note
<b>Second 12 Volts</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Ignition</b>	The Front SAM Module is under the front passenger seat.
<b>Lock Motor</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Passenger Unlock Motor</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Right Front Door Trigger</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Left Rear Door Trigger</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Right Rear Door Trigger</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Trunk Hatch/Release</b>	The Rear SAM Module is in the right side of the luggage compartment. Meter this wire while opening the liftgate from the handle on the rear of the vehicle.
<b>Reverse Light</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Parking Lights (+)</b>	The Front SAM Module is under the front passenger seat. The LR - RR wires are gray/black - gray/blue at the Rear SAM Module, 10 pin plug (D), pins 5 and 10. The Rear SAM Module is in the right side of the luggage compartment.
<b>Turn Signal (Left)</b>	The Front SAM Module is under the front passenger seat. The LR wire is black at the Rear SAM Module, 10 pin plug (D), pin 1. The Rear SAM Module is in the right side of the luggage compartment.
<b>Turn Signal (Right)</b>	The Front SAM Module is under the front passenger seat. The RR wire is green/black at the Rear SAM Module, 10 pin plug (D), pin 6. The Rear SAM Module is in the right side of the luggage compartment.
<b>Brake Wire</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Headlight</b>	The Front SAM Module is under the front passenger seat.
<b>Hood Pin</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Fuel Door Release</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Fuel Pump</b>	On diesel models, it is red/white at the luggage compartment fuse box, plug (P6), pin 1.
<b>Rear Defroster</b>	The Rear SAM Module is in the right side of the luggage compartment.
<b>Left Front Heated Seat</b>	The Front SAM Module is under the front passenger seat.
<b>Right Front Heated Seat</b>	The Front SAM Module is under the front passenger seat.
<b>Parking Brake</b>	The Front SAM Module is under the front passenger seat.
<b>Wipers</b>	The Front SAM Module is under the front passenger seat.
<b>12 Volts</b>	The Front SAM Module is under the front passenger seat.
<b>Satellite Radio 12 Volts</b>	If equipped, the Satellite Radio is in the right rear footwell.
<b>Center Channel (+/-)</b>	If equipped, the amplifier is under the driver seat.
<b>Subwoofer (+/-)</b>	If equipped, the amplifier is under the driver seat.
<b>Left Front Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the mid/high range wires are white/black - white at the amplifier, 32 pin plug, pins 22 and 10. The low range wires are blue - blue/black at the amplifier, 32 pin plug, pins 19 and 7.
<b>Right Front Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the mid/high range wires are purple/black - purple at the amplifier, 32 pin plug, pins 21 and 9. The low range wires are brown - brown/black at the amplifier, 32 pin plug, pins 18 and 6.
<b>Left Rear Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the speaker wires are yellow/black - yellow at the amplifier, 32 pin plug, pins 31 and 26. The surround speaker wires are black - white at the amplifier, 32 pin plug, pins 28 and 23.
<b>Right Rear Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the speaker wires are green/black - green at the amplifier, 32 pin plug, pins 30 and 25. The surround speaker wires are black - orange at the amplifier, 32 pin plug, pins 29 and 24.
<b>Left Front Door Trigger</b>	The Rear SAM Module is in the right side of the luggage compartment.