

## 2012 Mercedes Benz S Class (W221)



### Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red/white (80A)	+	driver dash fuse box
<b>Second 12 Volts</b>	red (150A)	+	trunk fuse box
<b>Starter</b>	purple/white (for starter kill only)	+	underhood fuse box, 12 pin plug (M1), pin 7
<b>Second Starter</b>	N/A		
<b>Ignition</b>	pink/red (for ignition sense only)	+	underhood fuse box, 10 pin plug (C2), pin 2
<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	CAN distribution connector under driver dash
<b>Can Bus Low</b>	brown	data	CAN distribution connector under driver dash
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	(LIN bus)		
<b>Power Unlock</b>	(LIN bus)		
<b>Lock Motor</b>	gray	5 wire	Left Front Door Module, plug (C8), pin 1
<b>Unlock Motor</b>	orange	5 wire	Left Front Door Module, plug (C8), pin 2
<b>Disarm Defeat</b>	orange	5 wire	Right Front Door Module, plug (C8), pin 2
<b>Parking Lights (+)</b>	gray/yellow (LF); gray/yellow (RF)	+	undrhd fuse box, 10 pin plg (MR6), pin 1; 10 pin plug (MR5), pin 5
<b>Parking Lights (-)</b>	(LIN bus)		
<b>Hazards</b>	(LIN bus)		
<b>Turn Signal (Left)</b>	gray (LF); black/white (LR)	+	undrhd FB, 10 pin plug (MR5), pin 8; trunk FB, 18 pin plug (K3), pin 6
<b>Turn Signal (Right)</b>	gray (RF); black/green (RR)	+	undrhd FB, 10 pin plug (MR6), pin 6; trunk FB, 18 pin plug (K3), pin 8

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	yellow/blue (L); yellow/blue (R)	+	undrhd fuse box, 10 pin plg (MR5), pin 2; 10 pin plug (MR6), pin 10
<b>AutoLights</b>	(LIN bus)		
<b>Reverse Light</b>	gray/black	+	trunk fuse box, 18 pin plug (K3), pin 5
<b>Left Front Door Trigger</b>	blue	-	Left Front Door Module, plug (C8), pin 3
<b>Right Front Door Trigger</b>	blue	-	Right Front Door Module, plug (C8), pin 3
<b>Left Rear Door Trigger</b>	blue	-	Left Rear Door Module, plug (C8), pin 3
<b>Right Rear Door Trigger</b>	blue	-	Right Rear Door Module, pin (C8), pin 3
<b>Dome Supervision</b>	(CAN bus)		
<b>Trunk/Hatch Pin</b>	brown/green	-	trunk fuse box, 28 pin plug (K4), pin 21 or 23
<b>Rear Glass Pin</b>	N/A		
<b>Hood Pin</b>	brown/pink	-	trunk fuse box, 32 pin plug (I9), pin 7
<b>Trunk Hatch/Release</b>	brown/yellow (rear handle switch)	-	trunk fuse box, 28 pin plug (K4), pin 9
<b>Trunk Release Motor</b>	red or blue/purple	5 wire	trunk fuse box, 2 pin plug (K5), pin 2 or 1
<b>Fuel Door Release</b>	red/black or brown/gray	5 wire	trunk fuse box, 18 pin plug (K3), pin 16 or 17
<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>	non-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>	red	+	underhood fuse box, 18 pin plug (I1), pin 6
<b>Rear Defroster</b>	red/blue	+ latched	trunk fuse box, 3 pin plug (I2), pin 2
<b>Mirror Defroster</b>	(CAN bus)		
<b>Left Front Heated Seat</b>	(LIN bus)		
<b>Right Front Heated Seat</b>	(LIN bus)		

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Speed Sense</b>	(wheel speed sensor)		
<b>Brake Wire</b>	red/gray (functions with ignition on only)	+	trunk fuse box, 32 pin plug (I9), pin 2
<b>Parking Brake</b>	(electric parking brake)		
<b>Horn Trigger</b>	yellow	+	underhood fuse box, 10 pin plug (MR1), pin 9
<b>Wipers</b>	(LIN bus)		
<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/cls)		
<b>Sun Roof (Limit/Close)</b>	N/A		
<b>Memory Seat 1</b>	(LIN bus)		
<b>Memory Seat 2</b>	(LIN bus)		
<b>Memory Seat 3</b>	(LIN bus)		
<b>Radio 12V</b>	red/blue	+	radio, 20 pin plug, pin 10
<b>Radio Ground</b>	brown	-	radio, 20 pin plug, pin 20
<b>Radio Ignition</b>	(CAN bus)		
<b>Radio Illumination</b>	(CAN bus)		
<b>Factory Amp Turn-on</b>	orange (MOST wake up)		radio, 20 pin plug, pin 9
<b>Power Antenna</b>			
<b>Left Front Speaker (+/-)</b>	black - black/red (high); black - brown/blk (mid)	+,-	amplifier in trnk L side, 14 pin plg, pins 5 - 6; 14 pin plug, pins 9 - 10
<b>Right Front Speaker (+/-)</b>	green - gray (high); green - brown/green (mid)	+,-	amplifier in trnk L side, 14 pin plg, pins 11-12; 14 pin plg, pins 13-14
<b>Left Rear Speaker (+/-)</b>	green - brown/green (door); green - brn/grn (surr)	+,-	amplifier in trnk L side, 14 pin plg, pins 7 - 8; 14 pin plug, pins 1 - 2
<b>Right Rear Speaker (+/-)</b>	green - red/green (door); grn/blu - brn/pur (surr)	+,-	amplifier in trnk L side, 14 pin plg, pins 9 - 10; 14 pin plug, pins 3 - 4
<b>Center Channel (+/-)</b>	gray/green - gray/white	+,-	amplifier in trunk L side, 14 pin plug, pins 5 - 6
<b>Subwoofer (+/-)</b>	blue - blue/white (1); brown - brown/white (2)	+,-	amplifier in trunk L side, 14 pin plug, pins 1 - 2; 3 - 4
<b>Aux. Audio Input Left (+/-)</b>	yellow - black	+,-	radio, 40 pin plug, pins 1 - 11
<b>Aux. Audio Input Right (+/-)</b>	brown - black	+,-	radio, 40 pin plug, pins 2 - 11
<b>RSE Video (+/-)</b>	N/A		
<b>RSE Audio Left (+/-)</b>	N/A		
<b>RSE Audio Right (+/-)</b>	N/A		
<b>Satellite Radio 12 Volts</b>	red/white	+	Satellite Radio in trunk L side, 3 pin plug, pin 2

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DirectWire Vehicle Information - 8/22/2013 1:57:20 AM			
Satellite Radio Ground	brown	-	Satellite Radio in trunk L side, 3 pin plug, pin 1
Satellite Radio Ignition	orange (MOST wake up)		Satellite Radio in trunk L side, 3 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 deck (surround)
<b>Right Rear Speaker</b>			right rear door
<b>Right Rear Tweeter</b>			right rear door; right rear deck (surround)
<b>Center Channel</b>			top center of dash
<b>Subwoofer</b>			top center of rear deck
<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>			left side of trunk

*Additional Wiring Notes*

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Item	Note
<b>Left Front Speaker (+/-)</b>	The low range wires are green - brown/green at the amplifier, 14 pin plug, pins 7 - 8.
<b>Right Front Speaker (+/-)</b>	The low range wires are brown/white - white/green at the amplifier, 14 pin plug, pins 11 - 12.
<b>Parking Lights (+)</b>	The (LR) - (RR) are gray/black - gray/blue at the trunk fuse box, 18 pin plug (K3), pins 9, 1.