

2006 Mercedes Benz ML Class

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red	+	battery under front passenger seat
Second 12 Volts			
Starter	red/white (V6), gray/wht (V8)	+	engine compartment fuse/relay box
Second Starter			
Ignition	pink	+	Front SAM, 40 pin plug, pin 11
Second Ignition			
Third Ignition			
Accessory			
Second Accessory			
Third Accessory			
Key Sense			
Data Bus			
Can Bus High			
Can Bus Low			
Can Bus Sw			
Power Lock	(ribbon harness)	-	door lock switch in driver door
Power Unlock	same as power lock wire		
Lock Motor	purple/black	5wi	Front SAM, 40 pin plug, pin 22
Unlock Motor	white/black	5wi	Left Front DCM, 8 pin plug, pin 6
Disarm Defeat	white	5wi	Front SAM, 40 pin plug, pin 21
Parking Lights (+)			
Parking Lights (-)	(LIN data bus)		
Hazards	(CAN data bus)		
Turn Signal (Left)			
Turn Signal (Right)			

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight			
AutoLights			
Reverse Light	white	+	Rear SAM, 10 pin plug, pin 3
Left Front Door Trigger	yellow	+	Front SAM, 10 pin plug, pin 2
Right Front Door Trigger			
Left Rear Door Trigger			
Right Rear Door Trigger			
Dome Supervision			
Trunk/Hatch Pin			
Rear Glass Pin			
Hood Pin	blue	-	sw or Rear SAM, 52 pin plug, pin 5
Trunk Hatch/Release	(ribbon harness)		power liftgate switch in driver door
Trunk Release Motor			
Fuel Door Release			
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)			
Factory Alarm Arm			
Factory Alarm Disarm			
Disarm No Unlock			
Trunk Alarm Shunt			
Tachometer	gray/orange (V6), red/wht (V8)	ac	ECM (V6), DLC, pin 3 (V8)
Wait to Start	N/A		
Neutral Safety			
Clutch Pedal			
Fuel Pump			
Rear Defroster			
Mirror Defroster			
Left Front Heated Seat			
Right Front Heated Seat			

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	wheel speed sensor		
Brake Wire	blue/black	+	Rear SAM, 18 pin plug, pin 3
Parking Brake	black	-	sw or Front SAM, 40 pin plug, pin 31
Horn Trigger	gray/black	-	Front SAM, 40 pin plug, pin 5
Wipers	green/black	-	Front SAM, 40 pin plug, pin 9
Left Front Window (Up/Down)	white - orange		Left Front DCM, 6 pin plg, pins 6, 5
Right Front Window (Up/Down)	white - orange		Rght Front DCM, 6 pin plg, pins 6, 5
Left Rear Window (Up/Down)	white - brown/black		Front SAM, 10 pin plug, pins 5, 7
Right Rear Window (Up/Down)	white - gray		Front SAM, 10 pin plug, pins 1, 3
Sun Roof (Open/Close)	green - purple		sunroof motor at front of roof
Sun Roof (Limit/Close)			
Memory Seat 1			
Memory Seat 2			
Memory Seat 3			
Radio 12V	red/black	+	radio harness
Radio Ground	brown	-	radio harness
Radio Ignition	(CAN data bus)		
Radio Illumination			
Factory Amp Turn-on			
Power Antenna			
Left Front Speaker (+/-)	white/black - white	+,-	radio harness or amp under driv seat
Right Front Speaker (+/-)	purple/black - purple	+,-	radio harness or amp under driv seat
Left Rear Speaker (+/-)	yellow/black - yellow	+,-	radio harness or amp under driv seat
Right Rear Speaker (+/-)	green/black - green	+,-	radio harness or amp under driv seat
Center Channel (+/-)			
Subwoofer (+/-)			
Aux. Audio Input Left (+/-)			
Aux. Audio Input Right (+/-)			
RSE Video (+/-)			
RSE Audio Left (+/-)			
RSE Audio Right (+/-)			
Satellite Radio 12 Volts			
Satellite Radio Ground			
Satellite Radio Ignition			
Satellite Radio Antenna			
Satellite Audio Left (+/-)			
Satellite Audio Right (+/-)			

What Fits

Item	Size	Depth	Location
Headunit			
Left Front Speaker			
Left Front Tweeter			
Right Front Speaker			
Right Front Tweeter			
Left Rear Speaker			
Left Rear Tweeter			
Right Rear Speaker			
Right Rear Tweeter			
Center Channel			
Subwoofer			
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			

Smart Starter Kill Relay

Relay Type:	n/a
Part #:	n/a
OE Relay Part #:	
Location:	n/a

Notes:
n/a

Alternate Part Notes:
n/a

Immobilizer Bypass Module

Required:	Yes
Type:	Transponder
Part #:	N/A
Alternate Part #'s:	

Notes:
Comes standard with Smart Key, no bypass available at this time.

Door Lock Interface Module

Required:	No
Type:	Multiplex
Part #:	456LW
Alternate Part #'s:	

Notes:

Additional Wiring Notes

Item	Note
Lock Motor	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.
Horn Trigger	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.
Wipers	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.
Right Rear Window (Up/Down)	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.
Left Front Window (Up/Down)	The Left Front DCM (Door Control Module) is in the driver door.
Reverse Light	The Rear SAM (Signal Acquisition and Actuation Module) is under the right rear corner of the cargo area floor.
Right Front Speaker (+/-)	On models with the amplifier, the RF woofer speaker wires are brown (+) - brown/black (-).
Parking Brake	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.
Right Front Window (Up/Down)	The Right Front DCM (Door Control Module) is in the passenger door.
Left Rear Speaker (+/-)	On models with the amplifier, the LR surround speaker wires are black (+) - white (-).
Left Rear Window (Up/Down)	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.
Driver Unlock Motor	The Left Front DCM (Door Control Module) is in the driver door.
Hood Pin	The Rear SAM (Signal Acquisition and Actuation Module) is under the right rear corner of the cargo area floor.
Right Rear Speaker (+/-)	On models with the amplifier, the RR surround speaker wires are black (+) - orange (-). The subwoofer speakers wires are black/white (+) - gray/white (-) and white/blue (+) - green (-).
Left Front Door Trigger	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery. Also found at the underdash light.
Power Lock	Lock is a straight negative trigger. Unlock is negative trigger thru a resistor. The resistor value is unknown at this time. MUST use relays.
Brake Wire	The Rear SAM (Signal Acquisition and Actuation Module) is under the right rear corner of the cargo area floor.
Tachometer	On the V6 models, the ECM (Engine Control Module) is on top of the engine. The tach wire is in the larger plug (96 pin), pin 77. On the V8 models, the DLC (Data Link Connector) is under the driver side dash.
Left Front Speaker (+/-)	On models with the amplifier, the LF woofer speaker wires are blue (+) - blue/black (-). The center channel speaker wires are gray/black (+) - gray (-).
Ignition	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.
Passenger Unlock Motor	The Front SAM (Signal Acquisition and Actuation Module) is under the front passenger seat next to the battery.