

2012 Mazda 2 - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	red (30A)	+	ignition switch, white 6 pin plug, pin 3
Second 12 Volts	white/red (40A)	+	ignition switch, white 6 pin plug, pin 6
Starter	black/blue	+	ignition switch, white 6 pin plug, pin 2
Ignition	black/yellow	+	ignition switch, white 6 pin plug, pin 5
Accessory	black/red	+	ignition switch, white 6 pin plug, pin 1
Second Accessory	black/white	+	ignition switch, white 6 pin plug, pin 4
Keysense	blue/black	+	key switch, white 2 pin plug, pin 2
CAN Bus High	red	data	data link connector, black 16 pin plug, pin 6
CAN Bus Low	blue	data	data link connector, black 16 pin plug, pin 14
RX DATA	gray	data	Immobilizer Module on key switch, white 6 pin plug, pin 4
TX DATA	green	data	Immobilizer Module on key switch, white 6 pin plug, pin 3
Power Lock	pink	-1000 ohms	door lock sw or BCM behind glove box, gray 24 pin plug (7), pin 20
Power Unlock	(same as power lock)	-	
Lock Motor	red/blue	5 wire	BCM behind glove box, gray 16 pin plug (3), pin 7
Driver Unlock Motor	red/black	5 wire	BCM behind glove box, gray 16 pin plug (3), pin 8
Passenger Unlock Motor	yellow/green	5 wire	BCM behind glove box, gray 16 pin plug (3), pin 3
Factory Alarm Arm	green (driver door key lock)	-1000 ohms	BCM behind glove box, gray 24 pin plug (7), pin 2
Factory Alarm Disarm	(same as factory alarm arm)	-	
Disarm No Unlock	(see factory alarm disarm)		
Parking Lights (+)	gray/black	+	BCM behind glove box, gray 16 pin plug (3), pin 12
Parking Lights (-)	brown/white	-	headlight sw or BCM behind glove box, white 24 pin plug (6), pin 17

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Item	Wire Color	Polarity	Wire Location
Hazards	blue/orange	-	hazard sw or BCM behind glove box, white 24 pin plug (6), pin 9
Turn Signal (Left)	red/blue	+	BCM behind glove box, gray 16 pin plug (3), pin 14
Turn Signal (Right)	red/green	+	BCM behind glove box, gray 16 pin plug (3), pin 13
Headlight	black/white	-	headlight sw or BCM behind glove box, white 24 pin plug (6), pin 3
AutoLights	white (interrupt to turn off autolights)	-	sw or BCM bhnd glove box, wh 24 pin plg(6), pin 18
Reverse Light	red/yellow	+	driver kick, harness to rear
Left Front Door Trigger	black/orange	- N.C.	BCM behind glove box, gray 24 pin plug (7), pin 5
Right Front Door Trigger	green/orange	- N.C.	BCM behind glove box, gray 24 pin plug (7), pin 7
Left Rear Door Trigger	orange	- N.C.	BCM behind glove box, gray 24 pin plug (7), pin 4
Right Rear Door Trigger	gray/yellow	- N.C.	BCM behind glove box, gray 24 pin plug (7), pin 8
Dome Light	yellow/black	-	BCM behind glove box, gray 16 pin plug (3), pin 5
Trunk/Hatch Pin	black/yellow	-	BCM behind glove box, gray 24 pin plug (7), pin 10
Trunk/Hatch Release	(use trunk release motor)		
Trunk Release Motor	orange/blue	5 wire	BCM behind glove box, gray 16 pin plug (3), pin 2
Tachometer	red/black, red/white, red, or red/yellow	ac	any fuel injector, gray 2 pin plug, pin 2
Neutral Safety	blue/orange (M/T)	-	PCM on driver side of engine, plug towards driver side, pin 18
Clutch Pedal	yellow/green	-	clutch switch, white 2 pin plug, pin 1
Fuel Pump	green/red	+	driver kick, harness to rear
Rear Defroster	orange/white	- latched	BCM behind glove box, white 24 pin plug (6), pin 14
Mirror Defroster	(same as rear defroster)		
Speed Sense	green/red	ac	radio, white 24 pin plug, pin 17

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Item	Wire Color	Polarity	Wire Location
Brake Wire	green/yellow	+	brake switch or driver kick, harness to rear
Parking Brake	brown/white	-	park brk sw or BCM behind glove box, gray 24 pin plug (7), pin 13
Horn Trigger	purple/red	-	horn switch or BCM behind glove box, white 16 pin plug (2), pin 6
Wipers	green/red	-	wiper switch or BCM behind glove box, white 24 pin plug (6), pin 19
Left Front Window (Up/Down)	red/white - green	A	power window main switch, white 14 pin plug, pins 12 - 13
Right Front Window (Up/Down)	red/green - lt. green/black	A	driver kick, door harness
Left Rear Window (Up/Down)	white - yellow	A	driver kick, door harness
Right Rear Window (Up/Down)	red - black/red	A	driver kick, door harness
Radio 12V	blue/red	+	radio, white 24 pin plug, pin 14
Radio Ground	black	-	radio, white 24 pin plug, pin 24
Radio Ignition	gray/red	+	radio, white 24 pin plug, pin 22
Radio Illumination	gray/black (parking lights); black/blue (dimmer)	+,-	radio, white 24 pin plug, pins 15, 16
Left Front Speaker (+/-)	red - white	+,-	radio, white 24 pin plug, pins 1 - 2
Right Front Speaker (+/-)	blue - yellow	+,-	radio, white 24 pin plug, pins 3 - 4
Left Rear Speaker (+/-)	purple - pink	+,-	radio, white 24 pin plug, pins 10 - 11
Right Rear Speaker (+/-)	white/blue - black/blue	+,-	radio, white 24 pin plug, pins 12 - 13
Aux. Audio Input Left (+/-)	black - white	+,-	radio, white 16 pin plug, pins 14 - 5
Aux. Audio Input Right (+/-)	red - white	+,-	radio, white 16 pin plug, pins 6 - 5

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***What Fits***

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6.5		left front door
Left Front Tweeter	1		left front door
Right Front Speaker	6.5		right front door
Right Front Tweeter	1		right front door
Left Rear Speaker	6.5		left rear door
Right Rear Speaker	6.5		right rear door