

2012 Mazda 5 - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	blue/black (40A)	+	ignition switch, white 8 pin plug, pin 8
Second 12 Volts	black (50A)	+	ignition switch, white 8 pin plug, pin 4
Starter	blue/red	+	ignition switch, white 8 pin plug, pin 5
Ignition	blue	+	ignition switch, white 8 pin plug, pin 1
Accessory	black/red	+	ignition switch, white 8 pin plug, pin 6
Second Accessory	black/white	+	ignition switch, white 8 pin plug, pin 7
Keysense	blue	+	ignition switch, white 8 pin plug, pin 2
Data Bus	blue/orange (TX), gray (RX)	data	PATS Transceiver around ignition switch, white 4 pin plug, pins 2, 1
CAN Bus High	black/red (MS CAN); green/yellow (HS CAN)	data	data link connector, black 16 pin plug, pins 3, 6
CAN Bus Low	white/red (MS CAN); red/yellow (HS CAN)	data	data link connector, black 16 pin plug, pins 11, 14
Power Lock	blue	-1000 ohms	either kick or BCM behind glove box, white 24 pin plug (6), pin 14
Power Unlock	(same as power lock)	-	
Lock Motor	red/blue to red/yellow	5 wire	either kick or BCM behind glove box, white 16 pin plug (5), pin 8
Driver Unlock Motor	red/black	5 wire	either kick or BCM behind glove box, white 16 pin plug (5), pin 7
Passenger Unlock Motor	red/white	5 wire	pass kick or BCM behind glove box, white 16 pin plug (5), pin 6
Factory Alarm Arm	blue/orange (driver door key lock)	-	either kick or BCM behind glove box, white 24 pin plug (6), pin 2
Factory Alarm Disarm	lt. green/red (driver door key unlock)	-	either kick or BCM behind glove box, white 24 pin plug (6), pin 13
Disarm No Unlock	(transponder and ignition)		
Parking Lights (+)	blue/black	+	passenger kick, harness to rear
Parking Lights (-)	brown/red	-	headlight sw or BCM behind glove box, blue 24 pin plug (2), pin 23

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Hazards	blue/yellow	-	hazard sw or BCM behind glove box, blue 24 pin plug (2), pin 7
Turn Signal (Left)	black/red	+	pass kick or BCM behind glove box, white 16 pin plug (5), pin 3
Turn Signal (Right)	red/white	+	pass kick or BCM behind glove box, white 16 pin plug (5), pin 2
Headlight	red/black	-	headlight sw or BCM behind glove box, blue 24 pin plug (2), pin 24
AutoLights	yellow (interrupt to turn off autolights)	-	headlight sw or BCM, white 24 pin plug (6), pin 1
Reverse Light	blue/white	+	pass kick or BCM behind glove box, gray 24 pin plug (1), pin 9
Left Front Door Trigger	white/blue	- N.C.	either kick or BCM behind glove box, white 24 pin plug (6), pin 4
Right Front Door Trigger	red/yellow	- N.C.	passenger kick or BCM, wht 24 pin plug (6), pin 16
Left Rear Door Trigger	black/orange	- N.C.	passenger kick or BCM, wht 24 pin plug (6), pin 3
Right Rear Door Trigger	white/black	- N.C.	passenger kick or BCM, wht 24 pin plug (6), pin 6
Dome Light	yellow/black	-	pass kick or BCM behind glove box, white 16 pin plug (5), pin 15
Trunk/Hatch Pin	red/black	-	pass kick or BCM behind glove box, white 24 pin plug (6), pin 15
Hood Pin	gray	- N.C.	BCM behind glove box, gray 24 pin plug (1), pin 17
Trunk/Hatch Release	purple/yellow (rear handle switch)	-	pass kick or BCM behind glove box, white 24 pin plug (6), pin 8
Trunk Release Motor	red/green	5 wire	pass kick or BCM behind glove box, white 16 pin plug (5), pin 4
Tachometer	black/white, black/yellow, black/blue, or blk/org	ac	any fuel injector, white 2 pin plug, pin 1
Neutral Safety	blue/orange (M/T)	-	PCM on driver side of engine, plug towards rear, pin 44
Clutch Pedal	black/orange	-	clutch switch, white 2 pin plug, pin 1

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Item	Wire Color	Polarity	Wire Location
Fuel Pump	black/white	+	passenger kick, harness to rear
Rear Defroster	purple/red	- latched	BCM behind glove box, gray 24 pin plug (1), pin 14
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	blue/black	+ latched	LH seat warmer switch, black 6 pin plug, pin 6
Right Front Heated Seat	red/green	+ latched	RH seat warmer switch, white 6 pin plug, pin 6
Speed Sense	green/white (A/T)	ac	TCM next to underhood fuse box, gray 39 pin plug, pin 36
Brake Wire	red/yellow or red/blue	+	brake switch, white 4 pin plg, pin 4 or abv drv kick, wh 14 pin plg, pin 8
Parking Brake	brown	-	pass kick or BCM behind glove box, blue 24 pin plug (2), pin 9
Horn Trigger	purple/white	-	horn switch or BCM behind glove box, blue 24 pin plug (2), pin 11
Wipers	gray	-	wiper switch or BCM behind glove box, blue 18 pin plug (4), pin 14
Left Front Window (Up/Down)	red/white - green	A	power window main switch, white 14 pin plug, pins 3 - 2
Right Front Window (Up/Down)	white/red - blue	A	driver kick, harness to rear
Left Rear Window (Up/Down)	white - yellow	A	driver kick, harness to rear
Right Rear Window (Up/Down)	red - black/red	A	driver kick, harness to rear
Sun Roof (Open/Close)	blue/black - green/white (funct with ign on only)	+	sunroof switch, white 6 pin plug, pins 5 - 4
Radio 12V	blue/red	+	radio, white 24 pin plug, pin 14
Radio Ground	black/red	-	radio, white 24 pin plug, pin 24
Radio Ignition	red/green	+	radio, white 24 pin plug, pin 22
Radio Illumination	lt green/red (parking lights), purple/grn (dimmer)	+,-	radio, white 24 pin plug, pins 15, 16
Power Antenna		+	radio, white 2 pin plug, pin 1
Left Front Speaker (+/-)	red - white	+,-	radio, white 24 pin plug, pins 1 - 2

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Item	Wire Color	Polarity	Wire Location
Right Front Speaker (+/-)	gray - 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/red - black/red	+,-	radio, white 24 pin plug, pins 12 - 13
Aux. Audio Input Left (+/-)	red/white - red/blue	+,-	radio, white 16 pin plug, pins 14 - 5
Aux. Audio Input Right (+/-)	black - red/blue	+,-	radio, white 16 pin plug, pins 6 - 5
RSE Audio Left (+/-)	black - white or green (bluetooth/satellite audio)	+,-	radio, white 16 pin plug, pins 3 - 11
RSE Audio Right (+/-)	red - white (bluetooth/satellite audio)	+,-	radio, white 16 pin plug, pins 2 - 11
Satellite Radio 12 Volts	blue/red	+	Sat Radio behind glove box, gry 16 pin plg, pin 16
Satellite Radio Ground	black/red	-	Sat Radio behind glove box, gray 16 pin plg, pin 1
Satellite Radio Ignition	red/green	+	Sat Radio behind glove box, gray 16 pin plg, pin 8
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	black - white	+,-	Satellite Radio, gray 16 pin plug, pins 3 - 4
Satellite Audio Right (+/-)	red - white	+,-	Satellite Radio, gray 16 pin plug, pins 2 - 4

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***What Fits***

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	5.5 x 7.5		left front door
Left Front Tweeter	1.2		left front door
Right Front Speaker	5.5 x 7.5		right front door
Right Front Tweeter	1.2		right front door
Left Rear Speaker	5.5 x 7.5		left rear quarter panel
Right Rear Speaker	5.5 x 7.5		right rear quarter panel
Satellite Radio Tuner			behind glove box