2016 Mazda MX-5Miata(SmartKey)

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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	White (50A)	+	Driver Kick Fuse Box
Ground	(chassis ground)		
Starter	Brown	+	Start Stop Unit in steering column, white 24 pin plug, pin 23
Ignition	Lt. Green	+	Start Stop Unit in steering column, white 24 pin plug, pin 10
Accessory	Yellow/Black	+	Start Stop Unit in steering column, white 24 pin plug, pin 2
Ignition Interrupt	White	Cut	Start Stop Unit in steering column, white 32 pin plug, pin 3
Ignition Interrupt 2	Brown	Cut	Start Stop Unit in steering column, white 32 pin plug, pin 17
PTS 1	Lt. Blue	-	Start Stop Unit in steering column, white 32 pin plug, pin 20
PTS 2	Gray	-	Start Stop Unit in steering column, white 24 pin plug, pin 17
CAN Bus High	White (HS CAN)	Data	Start Stop Unit in steering column, white 24 pin plug, pin 7
CAN Bus Low	Red (HS CAN)	Data	Start Stop Unit in steering column, white 24 pin plug, pin 8
CAN Bus High 2	White (HS CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 6
CAN Bus Low 2	Red (HS CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 14
CAN Bus High 3	Pink (MS CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 3
CAN Bus Low 3	Blue (MS CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 11
OBD 12 Volts	Pink (7.5A)	+	OBD-Data Link Connector, white 16 pin plug, pin 16
OBD Ground	Black	-	OBD-Data Link Connector, white 16 pin plug, pin 4

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Item	Wire Color	Polarity	Wire Location
IMMO Antenna	(immobilizer antenna is in the push button start)		
Keyless Data	Yellow	Data	Start Stop Unit in steering column, white 32 pin plug, pin 9
Power Lock	Lt. Blue	- 1000 Ohms	BCM above driver kick, white 32 pin plug, pin 6
Power Unlock	(same as power lock)	-	
Lock Motor	Yellow	Reverse	ESU in driver kick, against firewall, white 8 pin plug, pin 2
Driver Unlock Motor	Green	Reverse	ESU in driver kick, against firewall, white 8 pin plug, pin 5
Passenger Unlock Motor	Blue	Reverse	ESU in driver kick, against firewall, white 8 pin plug, pin 3
Factory Alarm Arm	White/Black (driver door key lock)	- 1000 Ohms	BCM above driver kick, white 32 pin plug, pin 22
Factory Alarm Disarm	(same as factory alarm arm)	Double -	
Disarm No Unlock	(proximity key and push button)		
Parking Lights	Red (LF); Green (RF); Pink (LR); Pink (RR)	+	ESU in driver kick, against firewall, white 10 pin plug, pin 5 (LF); pin 4 (RF); white 8 pin plug, pin 6 (LR); white 18 pin plug, pin 1 (RR)
Parking Lights -	Blue	-	Parking Light Switch Assembly inside steering column, white 8 pin plug, pin 1
Parking Lights Interrupt	Black	Cut	Parking Light Switch Assembly inside steering column, white 8 pin plug, pin 2
Hazards	Lt. Green	-	Start Stop Unit in steering column, white 32 pin plug, pin 4
Turn Signal (Left)	White/Orange (LF); Blue/Black (LR)	+	BCM above driver kick, white 24 pin plug, pin 13 (LF); white 12 pin plug, pin 4 (LR)
Turn Signal (Right)	Green/Orange (RF); White/Black (RR)	+	BCM above driver kick, white 24 pin plug, pin 1 (RF); white 12 pin plug, pin 3 (RR)
Headlight	Lt. Green (L); Gray (R)	+	ESU in driver kick, against firewall, white 10 pin plug, pin 3 (L); white 4 pin plug, pin 3 (R)

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Item	Wire Color	Polarity	Wire Location
AutoLights	(switch is plugged into Start Stop Unit; no wires)		
Reverse Light	White/Black	+	ESU in driver kick, against firewall, white 18 pin plug, pin 12
Left Front Door Trigger	Tan	-	BCM above driver kick, white 32 pin plug, pin 20
Right Front Door Trigger	White	-	BCM above driver kick, white 32 pin plug, pin 4
Dome Light	Green	-	ESU in driver kick, against firewall, white 18 pin plug, pin 16
Trunk/Hatch Pin	Lt. Green/Violet	-	BCM above driver kick, white 32 pin plug, pin 15
Hood Pin	Blue	- N.C.	BCM above driver kick, white 24 pin plug, pin 12
Trunk/Hatch Release	Brown/Green	-	Trunk Lid Opener Switch, white 4 pin plug, pin 1
Trunk-Hatch Release2	Brown/Green (alternate location)	-	BCM above driver kick, white 24 pin plug, pin 11
Trunk Release Motor	Red	Reverse	ESU in driver kick, against firewall, white 8 pin plug, pin 4
Fuel Door Release	(unlocks along with driver door)		
Tachometer	Green	ac	Camshaft Position Sensor, engine driver side rear, gray 3 pin plug, pin 1
Neutral Safety	Blue/White (M/T)	-	PCM behind underhood fuse box, black 140 pin plug, pin 33
Clutch Pedal	Gray/Blue	-	Start Stop Unit in steering column, white 32 pin plug, pin 19
Clutch Pedal 2	Pink	-	Start Stop Unit in steering column, white 24 pin plug, pin 3
Fuel Pump	Green	+	Driver Kick, white 18 pin plug, pin 5
Rear Defroster	Violet	- Latched	BCM above driver kick, white 24 pin plug, pin 6
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	(LIN Bus)		
Right Front Heated Seat	(LIN Bus)		
Speed Sense	Blue (without Bose only)	ac	Radio in dash or Tuner above passenger kick, white 24 pin plug, pin 19

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Item	Wire Color	Polarity	Wire Location
Brake Wire	Red (A/T)	+	Start Stop Unit in steering column, white 32 pin plug, pin 2
Brake Wire 2	Red (M/T)	+	Brake Switch, white 4 pin plug, pin 4
Parking Brake	Red/Black	-	Parking Brake Switch, white 1 pin plug, pin 1
Horn Trigger	Violet	-	BCM above driver kick, white 24 pin plug, pin 22 - -or-- Horn Switch-Clock Spring, white 14 pin plug, pin 1
Wipers	Gray	-	BCM above driver kick, white 24 pin plug, pin 15
Left Front Window (Up/Down)	Brown - Green	A	Power Window Main Switch, white 12 pin plug, pins 9 - 8
Right Front Window (Up/Down)	Lt. Blue - Violet	A	Passenger Power Window Switch, white 12 pin plug, pins 10 - 5
Radio 12V	Green	+	Radio in dash or Tuner above passenger kick, white 24 pin plug, pin 9
Radio Ground	Black	-	Radio in dash or Tuner above passenger kick, white 24 pin plug, pin 16
Radio Ignition	Red	+	Radio in dash or Tuner above passenger kick, white 24 pin plug, pin 24
Radio Illumination	Tan (parking lights); Violet (dimmer)	+,-	Radio in dash, white 24 pin plug, pins 17, 18
Factory Amp Turn-on	Brown	+	Tuner above passenger kick, white 24 pin plug, pin 10
Power Antenna	(no wire color listed in service manual)	+	Radio in dash or Tuner above passenger kick, white 2 pin plug, pin 1
Left Front Speaker (+/-)	Yellow/Black - Yellow/Green or Black - Red	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug, pins 1 - 2
Right Front Speaker (+/-)	Yellow - White/Black or White - Green	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug, pins 3 - 4
Left Rear Speaker (+/-)	White/Blue - White/Red or Lt. Green - Pink	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug, pins 5 - 6

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Item	Wire Color	Polarity	Wire Location
Right Rear Speaker (+/-)	White - White/Green or Violet - Gray	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug, pins 7 - 8
Left Front Speaker - With Amp	Yellow/Black - Yellow/Green	+,-	Amplifier in trunk right side, black 8 pin plug, pins 2 - 6
Right Front Speaker - With Amp	Yellow - White/Black	+,-	Amplifier in trunk right side, black 8 pin plug, pins 8 - 4
Left Rear Speaker - With Amp	White/Blue - White/Red (driver headrest LH); Red/White - White/Black (passenger headrest LH)	+,-	Amplifier in trunk right side, green 16 pin plug, pins 7 - 6; 3 - 2
Right Rear Speaker - With Amp	White - White/Green (driver headrest RH); Blue/White - Green/White (passenger headrest RH)	+,-	Amplifier in trunk right side, green 16 pin plug, pins 8 - 16; 4 - 5
Subwoofer - With Amp	Brown - Green	+,-	Amplifier in trunk right side, black 8 pin plug, pins 3 - 7
Aux. Audio Input Left (+/-)	White/Blue - Red/Blue or White/Blue - Green/White	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug (B), pins 5 - 17
Aux. Audio Input Right (+/-)	Green/Orange - Red/Blue or Red/Blue - Green/White	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug (B), pins 6 - 17
RSE Video (+/-)	Lt. Green - Pink (iPod video)	+,-	Connectivity Master Unit-Display, white 28 pin plug, pins 6 - 20
RSE Audio Left (+/-)	Red/Blue - Green/White or White/Blue - Red/Blue (CD audio)	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug (B), pins 7 - 19
RSE Audio Right (+/-)	Blue/White - White/Blue or Green/White - Blue/White (CD audio)	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug (B), pins 8 - 20
Satellite Radio 12 Volts	(built into tuner above passenger kick)		

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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 pillar
Right Front Speaker	6.5		right front door
Right Front Tweeter	1		right front pillar
Left Rear Speaker	2		headrest left side
Right Rear Speaker	2		headrest right side
Subwoofer	5.25		passenger footwell

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Additional Wiring Notes

Item	Note
Ignition Interrupt	Do this to enable OEM remote during remote start runtime.
Ignition Interrupt 2	Do this to enable OEM remote during remote start runtime.