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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

2022 Mazda MX-5Miata(SmartKey) - Requested by: amfire.de



Item	Wire Color	Polarity	Wire Location
IMMO Antenna	(immobilizer antenna is in 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 (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)	+	ESU in driver kick, against firewall, white 10 pin plug, pin 5 (LF); pin 4 (RF)
Parking Lights 2	Pink (LR); Pink (RR)	+	ESU in driver kick, against firewall, 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)

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Item	Wire Color	Polarity	Wire Location
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)
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 or Lt. Green	-	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)		

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Item	Wire Color	Polarity	Wire Location
Right Front Heated Seat	(LIN)		
Speed Sense	Blue (w/o Bose only)	AC	Radio in dash or Tuner above passenger kick, white 24 pin plug, pin 19
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
Horn Trigger 2	Violet (alternate location)	-	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
Convertible Top Open-Close	Pink (retractable hardtop) (function with ignition on only)	- Resistor	Retractable Hardtop Switch, white 10 pin plug, pin 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, pin 17 (parking lights); pin 18 (dimmer)
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

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Item	Wire Color	Polarity	Wire Location
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
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

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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.