2024 Mazda MX-5Miata(SmartKey) - Requested by: ampire.de

http://www.directechs.com

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	White (50A)	+	Fuse Block in driver kick
Second 12 Volts	Lt. Green (15A)	+	BCM above driver kick, white 10 pin plug, pin 7
Ground	(chassis ground)		
Ground 2	Black	-	BCM above driver kick, white 10 pin plug, pin 4
Starter	Blue	+	BCM above driver kick, white 32 pin plug, pin 26
Ignition	Lt. Green	+	BCM above driver kick, white 32 pin plug, pin 28
Accessory	Yellow	+	BCM above driver kick, white 32 pin plug, pin 27
PTS 1	Lt. Blue	-	BCM above driver kick, white 16 pin plug, pin 14
PTS 2	Gray	-	BCM above driver kick, white 32 pin plug, pin 9
PTS 3	Lt. Blue (PTS 1 alternate)	-	Push Button Start, white 10 pin plug, pin 2
PTS 4	Gray (PTS 2 alternate)	-	Push Button Start, white 10 pin plug, pin 5
CAN Bus High	Pink (Body CAN)	Data	BCM above driver kick, white 32 pin plug, pin 22
CAN Bus Low	Red (Body CAN)	Data	BCM above driver kick, white 32 pin plug, pin 21
CAN Bus High 2	Green (DIAG CAN)	Data	BCM above driver kick, white 16 pin plug, pin 10
CAN Bus Low 2	Lt. Green (DIAG CAN)	Data	BCM above driver kick, white 16 pin plug, pin 2
CAN Bus High 3	Brown (PTOBD CAN)	Data	BCM above driver kick, white 32 pin plug, pin 24
CAN Bus Low 3	Lt. Blue (PTOBD CAN)	Data	BCM above driver kick, white 32 pin plug, pin 23
CAN Bus High 4	Green (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 6
CAN Bus Low 4	Lt. Green (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 14
OBD 12 Volts	White/Black (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
OBD Connector	White		Under Driver Dash, Right of Trunk Release Switch

http://www.directechs.com

Item	Wire Color	Polarity	Wire Location
IMMO Antenna	Violet	RF	Push Button Start, white 10 pin plug, pin 6
IMMO Antenna 2	Lt. Green	RF	Push Button Start, white 10 pin plug, pin 1
PKE Module 12 Volts	Red (15A)	+	LF Control Unit in passenger kick, white 32 pin plug, pin 17
PKE Module Ground	Black	-	LF Control Unit in passenger kick, white 32 pin plug, pin 25
Driver LF Antenna	Lt. Green	RF	Driver Door Harness, white 34 pin plug (C-27), pin 18
Driver LF Antenna 2	Lt. Green	RF	LF Control Unit in passenger kick, white 32 pin plug, pin 26
Driver Door Handle Switch	Tan	-	Driver Door Harness, white 34 pin plug (C-27), pin 29
Driver Door Handle Switch 2	Tan	-	LF Control Unit in passenger kick, white 32 pin plug, pin 20
Passenger LF Antenna	Lt. Green	RF	Passenger Door Harness, white 34 pin plug (C-28), pin 18
Passenger LF Antenna 2	Lt. Green	RF	LF Control Unit in passenger kick, white 32 pin plug, pin 27
Passenger Door Handle Switch	Tan	-	Passenger Door Harness, white 34 pin plug (C-28), pin 29
Passenger Door Handle Switch 2	Tan	-	LF Control Unit in passenger kick, white 32 pin plug, pin 4
Rear LF Antenna	Gray	RF	Passenger Kick, white 32 pin plug (C-24), pin 28
Rear LF Antenna 2	Gray	RF	LF Control Unit in passenger kick, white 32 pin plug, pin 31
Rear Handle Switch	Yellow	-	Driver Kick, harness to rear
Rear Handle Switch 2	Yellow	-	BCM above driver kick, white 24 pin plug, pin 16
Security Light	Red	-	BCM above driver kick, white 16 pin plug, pin 13
Keyless Data	Green	Data	BCM above driver kick, white 24 pin plug, pin 9
Power Lock	Lt. Blue	- 1000 Ohms	Driver Kick, door harness
Power Unlock	(same as power lock)	-	

http://www.directechs.com

Item	Wire Color	Polarity	Wire Location
Power Lock2	Lt. Blue (alternate location)	- 1000 Ohms	ESU behind passenger dash, against firewall, white 40 pin plug, pin 16
Power Unlock2	(same as power lock 2)	-	
Lock Motor	Yellow	Reverse	Driver Kick, door harness --or-- ESU behind passenger dash, against firewall, white 14 pin plug, pin 12
Driver Unlock Motor	Green	Reverse	Driver Kick, door harness --or-- ESU behind passenger dash, against firewall, white 14 pin plug, pin 13
Passenger Unlock Motor	Blue	Reverse	Passenger Kick, door harness --or-- ESU behind passenger dash, against firewall, white 14 pin plug, pin 14
Factory Alarm Arm	(arms on lock with door open)		
Factory Alarm Disarm	(proximity key and push button)		
Lock Detection	Brown	-	Driver Kick, door harness --or-- ESU behind passenger dash, against firewall, white 40 pin plug, pin 18
Unlock Detection	Lt. Green/Red	-	Driver Kick, door harness --or-- ESU behind passenger dash, against firewall, white 40 pin plug, pin 19
Parking Lights	Lt. Green/Black (LR-RR)	+	ESU behind passenger dash, against firewall, white 40 pin plug, pin 37
Parking Lights 2	(LF-RF are CAN)		
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	Blue	-	Hazard Warning Switch, white 8 pin plug, pin 5
Turn Signal (Left)	(LF is CAN); Blue/Black (LR)	+	ESU behind passenger dash, against firewall, white 40 pin plug, pin 5 (LR)

http://www.directechs.com

Item	Wire Color	Polarity	Wire Location
Turn Signal (Right)	(RF is CAN); Green (RR)	+	ESU behind passenger dash, against firewall, white 40 pin plug, pin 6 (RR)
Reverse Light	White/Black	+	Passenger Kick, white 32 pin plug (C-24), pin 31
Reverse Light 2	White/Black (alternate location)	+	ESU behind passenger dash, against firewall, white 40 pin plug, pin 4
Left Front Door Trigger	Tan	-	Driver Kick, door harness
Left Front Door Trigger 2	Tan (alternate location)	-	ESU behind passenger dash, against firewall, white 40 pin plug, pin 38
Right Front Door Trigger	White	-	Passenger Kick, door harness
Right Front Door Trigger 2	White (alternate location)	-	ESU behind passenger dash, against firewall, white 40 pin plug, pin 39
Dome Light	Tan	-	ESU behind passenger dash, against firewall, white 40 pin plug, pin 1
Trunk/Hatch Pin	Lt. Green	-	ESU behind passenger dash, against firewall, white 40 pin plug, pin 15
Hood Pin	Green/Blue	- N.C.	BCM above driver kick, white 32 pin plug, pin 10
Trunk/Hatch Release	Brown/Green	-	Trunk Lid Opener Switch, white 4 pin plug, pin 1
Trunk-Hatch Release2	Yellow (rear handle switch)	-	BCM above driver kick, white 24 pin plug, pin 16
Trunk Release Motor	White or Red	Reverse	ESU behind passenger dash, against firewall, white 14 pin plug, pin 11
Fuel Door Release	(locks-unlocks with driver door)		
Tachometer	Green	AC	Camshaft Position Sensor, engine driver side rear, gray 3 pin plug, pin 1
Clutch Pedal	Violet	MUX	PCM under hood to driver side of engine, black 72 pin plug, pin 68
Clutch Pedal 2	Gray	-	BCM above driver kick, white 32 pin plug, pin 11
Fuel Pump	Green/Red	+	Driver Kick, white 18 pin plug (C-06), pin 11
Rear Defroster	Violet	- Latched	BCM above driver kick, white 32 pin plug, pin 7
Mirror Defroster	(same as rear defroster)		

http://www.directechs.com

Item	Wire Color	Polarity	Wire Location
Left Front Heated Seat	(LIN)		
Right Front Heated Seat	(LIN)		
Brake Wire	Gray	+	BCM above driver kick, white 24 pin plug, pin 11
Brake Wire 2	Gray (alternate location)	+	Brake Switch, white 4 pin plug, pin 4
Parking Brake	Red/Black	-	Parking Brake Switch, white 1 pin plug, pin 1
Parking Brake 2	Red/Black (alternate location)	-	Passenger Kick, white 22 pin plug (C-23), pin 6
Horn Trigger	Violet	-	BCM above driver kick, white 32 pin plug, pin 6
Horn Trigger 2	Violet (alternate location)	-	Horn Switch-Clock Spring, white 14 pin plug, pin 1
Horn - Factory Alarm	(LIN)		
Wipers	Blue	-	ESU behind passenger dash, against firewall, white 16 pin plug, pin 2 --or-- Above BCM, white 22 pin plug (C-80), pin 19
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	Lt. Green (retractable hardtop) (functions with ignition on only)	-	Retractable Hardtop Switch, black 10 pin plug, pin 5
Radio 12V	Red	+	Connectivity Master Unit behind rear of center console, white 20 pin plug, pin 11
Radio Ground	Black	-	Connectivity Master Unit behind rear of center console, white 20 pin plug, pin 1
Radio Ignition	Blue	+	Accessory Socket on front passenger side of center console, gray 3 pin plug, pin 2
Radio Illumination	Lt. Blue	+	Commander Switch in center console, white 8 pin plug, pin 5
Factory Amp Turn-on	(MOST)		
Power Antenna	(tuner is above passenger kick)		

http://www.directechs.com

Item	Wire Color	Polarity	Wire Location
Left Front Speaker (+/-)	Pink - Gray (w/o Bose)	+,-	Amplifier behind passenger seat, white 16 pin plug, pins 12 - 11
Right Front Speaker (+/-)	Pink - Gray (w/o Bose)	+,-	Amplifier behind passenger seat, white 16 pin plug, pins 4 - 3
Left Rear Speaker (+/-)	Blue - Lt. Green (driver headrest) (w/o Bose)	+,-	Amplifier behind passenger seat, white 16 pin plug, pins 10 - 9
Right Rear Speaker (+/-)	Blue - Lt. Green (driver headrest) (w/o Bose)	+,-	Amplifier behind passenger seat, white 16 pin plug, pins 2 - 1
Left Front Speaker - With Amp	Pink - Gray (Bose)	+,-	Amplifier behind passenger seat, green 16 pin plug, pins 4 - 12
Right Front Speaker - With Amp	Pink - Gray (Bose)	+,-	Amplifier behind passenger seat, green 16 pin plug, pins 5 - 13
Left Rear Speaker - With Amp	Violet - Brown (driver headrest); Violet - Brown (passenger headrest) (Bose)	+,-	Amplifier behind passenger seat, green 16 pin plug, pins 7 - 15 (driver headrest); black 16 pin plug, pins 2 - 1 (passenger headrest)
Right Rear Speaker - With Amp	Violet - Brown (driver headrest); Violet - Brown (passenger headrest) (Bose)	+,-	Amplifier behind passenger seat, green 16 pin plug, pins 6 - 14 (driver headrest); black 16 pin plug, pins 4 - 3 (passenger headrest)
Subwoofer - With Amp	Brown - Green (Bose)	+,-	Amplifier behind passenger seat, black 8 pin plug, pins 4 - 8
Rearview Camera Video	(COAX)		

2024 Mazda MX-5Miata(SmartKey) - Requested by: ampire.de

http://www.directechs.com

What Fits

Item	Size	Depth	Location
Headunit	Irregular		Behind Rear of Center Console
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