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Wiring Information

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

2016 Mazda CX-5(SmartKey) - Requested by: ampire.de



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Item	Wire Color	Polarity	Wire Location
OBD 12 Volts	Black (7.5A)	+	OBD-Data Link Connector, white 16 pin plug, pin 16
OBD Ground	Black/Yellow	-	OBD-Data Link Connector, white 16 pin plug, pin 4
OBD Connector	White		Under Driver Dash, Next To Hood Release
IMMO Antenna	(immobilizer antenna is in the push button start)		
Keyless Data	Green/Orange	Data	Start Stop Unit in steering column, white 32 pin plug, pin 9
Power Lock	Blue	- 1000 Ohms	Driver Kick, harness to rear --or-- Rear BCM in left rear quarter panel, white 24 pin plug, pin 15
Power Unlock	(same as power lock)	-	
Lock Motor	Pink	Reverse	Driver Kick, harness to rear --or-- Rear BCM in left rear quarter panel, white 16 pin plug, pin 2
Driver Unlock Motor	Blue/Red	Reverse	Driver Kick, harness to rear --or-- Rear BCM in left rear quarter panel, white 16 pin plug, pin 3
Passenger Unlock Motor	Blue/Orange	Reverse	Rear BCM in left rear quarter panel, white 16 pin plug, pin 4
Factory Alarm Arm	White/Green (key lock)	- 1000 Ohms	Driver Kick, harness to rear --or-- Rear BCM in left rear quarter panel, white 24 pin plug, pin 16
Factory Alarm Disarm	(same as factory alarm arm)	Double -	
Disarm No Unlock	(proximity key and push button)		
Parking Lights	Green (F); Pink/Black (R)	+	Front BCM in underhood fuse box, blue 18 pin plug, pin 14 (F); Driver Kick, harness to rear (R)
Parking Lights -	Yellow	-	Parking Light Switch Assembly inside steering column, white 6 pin plug, pin 3
Parking Lights Interrupt	Green	Cut	Parking Light Switch Assembly inside steering column, white 6 pin plug, pin 4
Hazards	White/Blue	-	Start Stop Unit in steering column, white 32 pin plug, pin 4

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Item	Wire Color	Polarity	Wire Location
Turn Signal (Left)	White/Red (LF); Blue/Red (LR)	+	Front BCM in underhood fuse box, white 28 pin plug, pin 15 (LF); Driver Kick, harness to rear (LR)
Turn Signal (Right)	White (RF); Blue/Orange (RR)	+	Front BCM in underhood fuse box, blue 18 pin plug, pin 4 (RF); Driver Kick, harness to rear (RR)
Headlight	Green/Red	-	Start Stop Unit in steering column, white 32 pin plug, pin 28
AutoLights	(switch is plugged into Start Stop Unit; no wires)		
Reverse Light	White/Black	+	Rear BCM in left rear quarter panel, blue 18 pin plug, pin 10
Left Front Door Trigger	Brown/Black	-	Driver Kick, harness to rear --or-- Rear BCM in left rear quarter panel, white 24 pin plug, pin 12
Right Front Door Trigger	Brown/Red	-	Rear BCM in left rear quarter panel, white 24 pin plug, pin 11
Left Rear Door Trigger	Brown/White	-	Rear BCM in left rear quarter panel, white 24 pin plug, pin 10
Right Rear Door Trigger	Brown/Yellow	-	Rear BCM in left rear quarter panel, white 24 pin plug, pin 9
Dome Light	Violet	-	Rear BCM in left rear quarter panel, white 8 pin plug, pin 3
Trunk/Hatch Pin	Brown	-	Rear BCM in left rear quarter panel, blue 18 pin plug, pin 6
Hood Pin	Blue/White	- N.C.	Driver Kick, harness to rear --or-- Rear BCM in left rear quarter panel, white 24 pin plug, pin 18
Trunk/Hatch Release	White/Blue (rear handle switch)	-	Rear BCM in left rear quarter panel, blue 18 pin plug, pin 7
Trunk Release Motor	Green	Reverse	Rear BCM in left rear quarter panel, blue 18 pin plug, pin 2
Tachometer	Green	AC	Camshaft Position Sensor, engine driver side, gray 3 pin plug, pin 1

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Item	Wire Color	Polarity	Wire Location
Neutral Safety	Violet (M/T)	-	PCM next to underhood fuse box, black 140 pin plug, pin 33
Clutch Pedal	Yellow/Black	-	Start Stop Unit in steering column, white 32 pin plug, pin 19
Clutch Pedal 2	White/Blue	-	Start Stop Unit in steering column, white 24 pin plug, pin 3
Fuel Pump	Gray	+	Driver Kick, harness to rear
Rear Defroster	Blue/Red	+ Latched	Driver Kick, harness to rear
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	(LIN)		
Right Front Heated Seat	(LIN)		
Speed Sense	Violet/Red (w/o Bose only)	AC	Radio in dash, white 20 pin plug, pin 14 --or-- Tuner above passenger kick, white 24 pin plug, pin 19
Brake Wire	Red/Blue	+	Start Stop Unit in steering column, white 32 pin plug, pin 2
Parking Brake	Green/Yellow (EPB indicator)	-	Electric Parking Brake Switch, white 12 pin plug, pin 12
Horn Trigger	Blue	-	Horn Switch-Clock Spring, white 14 pin plug, pin 1
Wipers	Black/Orange	-	Start Stop Unit in steering column, white 32 pin plug, pin 27
Left Front Window (Up/Down)	Brown - Gray	A	Power Window Main Switch, white 12 pin plug, pins 11 - 10
Right Front Window (Up/Down)	Green/Black - White/Red	A	Driver Kick, door harness
Left Rear Window (Up/Down)	Blue/Yellow - Red/Black	A	Driver Kick, door harness
Right Rear Window (Up/Down)	Blue/Black - Red	A	Driver Kick, door harness
Sun Roof (Open/Close)	Blue/Red - Blue/White (function with ignition on only)	+	Sunroof Switch, white 4 pin plug, pins 1 - 2
Memory Seat 1	(no wire color listed in service manual)	-	Position Memory Switch, white 4 pin plug, pin 3

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Item	Wire Color	Polarity	Wire Location
Memory Seat 2	(no wire color listed in service manual)	-	Position Memory Switch, white 4 pin plug, pin 4
Radio 12V	White/Blue	+	Radio in dash, white 20 pin plug, pin 11 --or-- Tuner above passenger kick, white 24 pin plug, pin 9
Radio Ground	Black	-	Radio in dash, white 20 pin plug, pin 1 --or-- Tuner above passenger kick, white 24 pin plug, pin 16
Radio Ignition	Red/Black	+	Radio in dash, white 20 pin plug, pin 4 --or-- Tuner above passenger kick, white 24 pin plug, pin 24
Radio Illumination	Yellow/Green (parking lights); Gray/Blue (dimmer)	+,-	Radio in dash, white 20 pin plug, pin 2 (parking lights); pin 3 (dimmer)
Factory Amp Turn-on	Brown/White	+	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 (+/-)	Brown - Green or Black - White	+,-	Radio in dash, white 20 pin plug, pins 9 - 8 --or-- Tuner above passenger kick, white 24 pin plug, pins 1 - 2
Right Front Speaker (+/-)	Black/Yellow - Lt. Green or Red - Green	+,-	Radio in dash, white 20 pin plug, pins 19 - 18 --or-- Tuner above passenger kick, white 24 pin plug, pins 3 - 4
Left Rear Speaker (+/-)	Red/White - Blue/Yellow or Pink - Lt. Green	+,-	Radio in dash, white 20 pin plug, pins 7 - 6 --or-- Tuner above passenger kick, white 24 pin plug, pins 5 - 6
Right Rear Speaker (+/-)	Red - Blue or Gray - Blue	+,-	Radio in dash, white 20 pin plug, pins 17 - 16 --or-- Tuner above passenger kick, white 24 pin plug, pins 7 - 8
Left Front Speaker - With Amp	Brown - Green/White	+,-	Amplifier under passenger seat, black 8 pin plug, pins 2 - 6
Right Front Speaker - With Amp	Black/Yellow - Lt. Green	+,-	Amplifier under passenger seat, black 8 pin plug, pins 3 - 7

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Item	Wire Color	Polarity	Wire Location
Left Front Tweeter - With Amp	Brown - Green	+,-	Amplifier under passenger seat, green 16 pin plug, pins 3 - 2
Right Front Tweeter - With Amp	Black/Yellow - Lt. Green	+,-	Amplifier under passenger seat, green 16 pin plug, pins 7 - 6
Left Rear Speaker - With Amp	Red/Yellow - Blue/White	+,-	Amplifier under passenger seat, black 8 pin plug, pins 8 - 4
Right Rear Speaker - With Amp	Red/White - Blue/Yellow	+,-	Amplifier under passenger seat, green 16 pin plug, pins 1 - 9
Left Rear Surround - With Amp	Pink - Violet	+,-	Amplifier under passenger seat, green 16 pin plug, pins 8 - 16
Right Rear Surround - With Amp	(same as left rear surround)		
Center Channel - With Amp	Gray - Yellow	+,-	Amplifier under passenger seat, green 16 pin plug, pins 4 - 5
Aux. Audio Input Left (+/-)	Red/White - Black	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug (B), pins 5 - 17
Aux. Audio Input Right (+/-)	Red/Blue - Black	+,-	Radio in dash or Tuner above passenger kick, white 24 pin plug (B), pins 6 - 17
Rearview Camera Video	Black - Red	+,-	Connectivity Master Unit-Display, white 28 pin plug, pins 1 - 15
RSE Video (+/-)	Lt. Green - Violet (iPod video)	+,-	Connectivity Master Unit-Display, white 28 pin plug, pins 6 - 20
RSE Audio Left (+/-)	Black - White (CD audio)	+,-	Tuner above passenger kick, white 24 pin plug (B), pins 7 - 19
RSE Audio Right (+/-)	Red - Green (CD audio)	+,-	Tuner above passenger kick, white 24 pin plug (B), pins 8 - 20



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What Fits

Item	Size	Depth	Location
Headunit	Double DIN		Center of Dash
Left Front Speaker	6.5 or 8.86		Left Front Door
Left Front Tweeter	1 or 3		Left Front Dash
Right Front Speaker	6.5 or 8.86		Right Front Door
Right Front Tweeter	1 or 3		Right Front Dash
Left Rear Speaker	6.5 or 5.25		Left Rear Door
Left Rear Tweeter	3 (surround)		Left Rear Pillar
Right Rear Speaker	6.5 or 5.25		Right Rear Door
Right Rear Tweeter	3 (surround)		Right Rear Pillar
Center Channel	3		Top Center of Dash



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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.