2014 Mazda MX-5 Miata - North America

Item	Wire Color	Polarity	Wire Location
12 Volts	white/green (40A)	+	ignition switch, white 6 pin plug, pin 3
Second 12 Volts	yellow/black (15A)	+	ignition switch, white 6 pin plug, pin 6
Ground	(chassis ground)		
Starter	white/blue	+	ignition switch, white 6 pin plug, pin 1
Ignition	green/white	+	ignition switch, white 6 pin plug, pin 2
Accessory	pink/black	+	ignition switch, white 6 pin plug, pin 4
Second Accessory	white/red	+	ignition switch, white 6 pin plug, pin 5
Keysense	brown/red	+	key switch, white 2 pin plug, pin 2 or steering lock unit, white 8 pin plug, pin 2
CAN Bus High	blue/white (HS CAN)	data	data link connector, black 16 pin plug, pin 6
CAN Bus Low	green/black (HS CAN)	data	data link connector, black 16 pin plug, pin 14
RX DATA	blue/orange or violet	data	PATS Transceiver on ignition switch, white 4 pin plug, pin 1
TX DATA	yellow/black or gray/blue	data	PATS Transceiver on ignition switch, white 4 pin plug, pin 2
Door Lock MUX	Brown/White	MUX	Keyless Control Module above driver kick, gray 27 pin plug, pin 10
Power Lock	Brown/White	- 1000 Ohms	Keyless Control Module above driver kick, gray 27 pin plug, pin 10
Power Unlock	(same as power lock)	-	
Lock Motor	Lt. Green	Reverse	Keyless Control Module above driver kick, white 6 pin plug, pin 2
Driver Unlock Motor	Gray	Reverse	Keyless Control Module above driver kick, white 6 pin plug, pin 5
Passenger Unlock Motor	Green/Black	Reverse	Keyless Control Module above driver kick, white 6 pin plug, pin 1
Factory Alarm MUX	Gray/Red	MUX	Keyless Control Module above driver kick, gray 27 pin plug, pin 3
Factory Alarm Arm	Gray/Red (key lock)	- 1000 Ohms	Keyless Control Module above driver kick, gray 27 pin plug, pin 3
Factory Alarm Disarm	(same as factory alarm arm)	-	
Disarm No Unlock	(use keysense)		
Trunk Alarm Shunt	brown (trunk key cylinder)	-	Keyless Control Module above driver kick, gray 27 pin plug, pin 13
Parking Lights	black/green	+	junction connector in driver kick, white 54 pin plug, pin 24
Parking Lights -	brown/black	-	headlight switch, white 17 pin plug, pin 14
Hazards	orange	-	hazard switch, white 12 pin plug, pin 11
Turn Signal (Left)	green/yellow	+	turn signal switch, white 17 pin plug, pin 1
Turn Signal (Right)	black/red	+	turn signal switch, white 17 pin plug, pin 3
Headlight	yellow/red	-	headlight switch, white 17 pin plug, pin 13
Reverse Light	red/yellow	+	junction connector in driver kick, white 54 pin plug, pin 22
Left Front Door Trigger	blue/black	-	junction connector right of steering column, white 54 pin plug, pin 9
Right Front Door Trigger	(same as dome supervision)		
Dome Light	black/blue	-	junction connector right of steering column, white 54 pin plug, pin 20
Trunk/Hatch Pin	orange to black	-	trunk pin switch or light in trunk
Hood Pin	gray	- N.C.	Keyless Control Module above driver kick, gray 27 pin plug, pin 8
Trunk/Hatch Release	violet	-	junction connector in driver kick, white 54 pin plug, pin 28
Trunk Release Motor	blue	+	trunk release relay or motor in trunk

2014 Mazda MX-5 Miata - North America

Item	Wire Color	Polarity	Wire Location
Tachometer	white/green, red, yellow/red, or white/black	ac	any fuel injector, black 2 pin plug, pin 2
Neutral Safety	green/white (M/T)	-	PCM behind driver headlight, plug towards driver side, pin 51
Clutch Pedal	green/white	-	clutch switch, white 2 pin plug, pin 1
Fuel Pump	white/red	+	junction conn in driv kick, wht 54 pin plg, pin 26
Rear Defroster	yellow	- latched	junction connector left of steering column, white 54 pin plug, pin 45
Left Front Heated Seat	green/red	-resistors	left seat warmer switch, white 10 pin plug, pin 8
Right Front Heated Seat	green	-resistors	right seat warmer switch, gray 10 pin plug, pin 8
Speed Sense	white/blue	ac	radio, white 24 pin plug, pin 17
Brake Wire	black/yellow	+	junction connector in driver kick, white 54 pin plug, pin 25
Parking Brake	gray	-	junction connector right of steering column, white 54 pin plug, pin 10
Horn Trigger	green/orange	-	horn switch, white 8 pin plug, pin 1
Wipers	black/yellow (L), black/blu (H), blk/lt. grn (ign)	+	junction connector left of steering column, wh 14 pin plg, pins 9, 3, 4
Left Front Window (Up/Down)	red/white - red/green	A	power window switch, white 8 pin plug, pins 2 - 4, or 3 - 8
Right Front Window (Up/Down)	green/red - white/red	A	power window switch, white 8 pin plug, pins 1 - 5, or 5 - 6
Sun Roof (Open/Close)	yellow (hardtop down) (functions with ign on only)	- 993 ohms	junction connector in driver kick, white 54 pin plug, pin 4
Sun Roof (Limit/Close)	(hardtop up) (same as hardtop down)	-2183 ohms	
Radio 12V	blue/red	+	radio, white 24 pin plug, pin 14
Radio Ground	black	-	radio, white 24 pin plug, pin 24
Radio Ignition	red/black	+	radio, white 24 pin plug, pin 22
Radio Illumination	red/blue (parking lights), gray/red (dimmer)	+,-	radio, white 24 pin plug, pins 15, 16
Factory Amp Turn-on	pink/black	+	radio, white 24 pin plug, pin 6
Power Antenna	blue	+	radio, white 24 pin plug, pin 5
Left Front Speaker (+/-)	red - green or red - white	+,-	radio, white 24 pin plug, pins 1 - 2
Right Front Speaker (+/-)	white/black - yellow/red or green - black	+,-	radio, white 24 pin plug, pins 3 - 4
Left Rear Speaker (+/-)	blue/orange - blue/red or blue/yellow - yellow	+,-	radio, white 24 pin plug, pins 11 - 10
Right Rear Speaker (+/-)	blue/white - blue/black or green/org - green/blk	+,-	radio, white 24 pin plug, pins 13 - 12
Center Channel (+/-)	blue/black - green/yellow	+,-	amplifier in trunk right side, green 16 pin plug, pins 5 - 6
Aux. Audio Input Left (+/-)	black/white - white/green	+,-	radio, white 16 pin plug, pins 3 - 11
Aux. Audio Input Right (+/-)	pink - white/green	+,-	radio, white 16 pin plug, pins 2 - 10
Satellite Radio 12 Volts	blue/red	+	Sat Radio in trunk R side, wht 16 pin plug, pin 16
Satellite Radio Ground	black/white	-	Sat Radio in trunk R side, wht 16 pin plug, pin 1
Datellite Radio Ignition	red/black	+	Sat Radio in trunk R side, wht 16 pin plug, pin 8
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	blue/yellow - red/blue	+,-	Satellite Radio, white 16 pin plug, pins 3 - 4
Satellite Audio Right (+/-)	green/red - red/blue	+,-	Satellite Radio, white 16 pin plug, pins 2 - 4
Headunit	irregular		center of dash
Left Front Speaker	6 x 8		left front door
Right Front Speaker	6 x 8		right front door

2014 Mazda MX-5 Miata - North America			
Item	**Wire Color**	**Polarity**	**Wire Location**
Left Rear Speaker	6 x 8		rear panel
Right Rear Speaker	6 x 8		rear panel

Wiring Photo and Notes: 12 Volts	
	There are no notes for this wire.
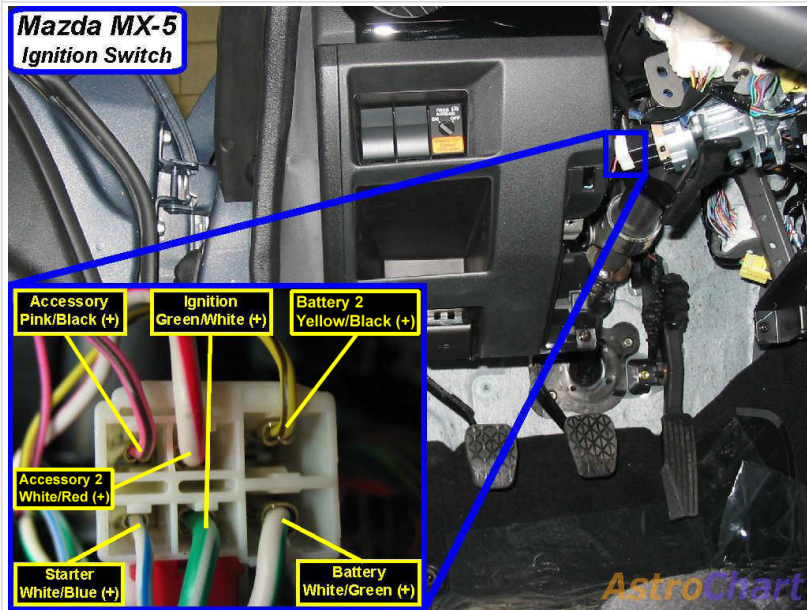
Wiring Photo and Notes: Second 12 Volts	
	There are no notes for this wire.
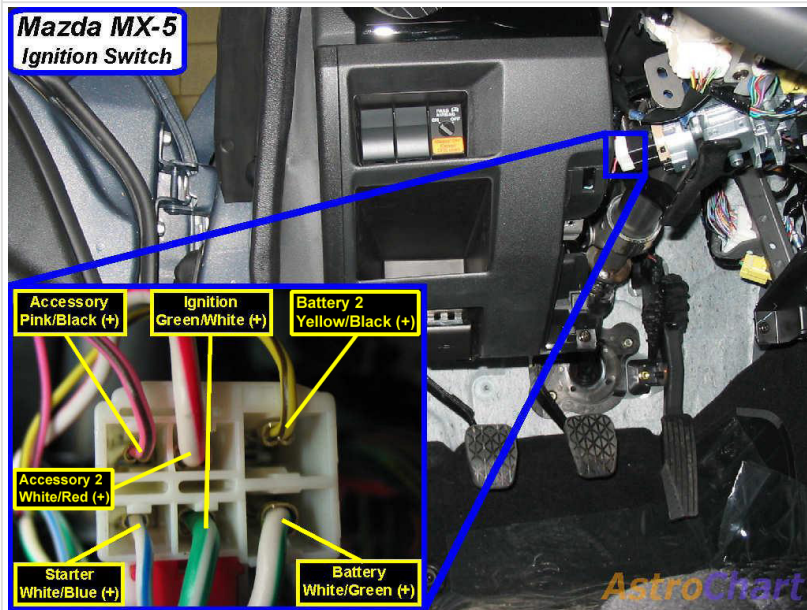
Wiring Photo and Notes: Starter

Wiring Photo and Notes: Starter
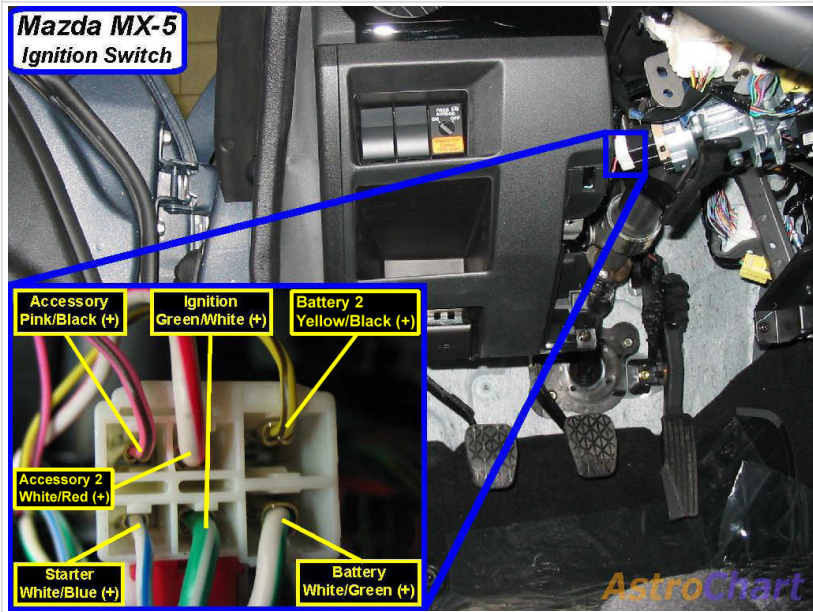
There are no notes for this wire.

Wiring Photo and Notes: Ignition
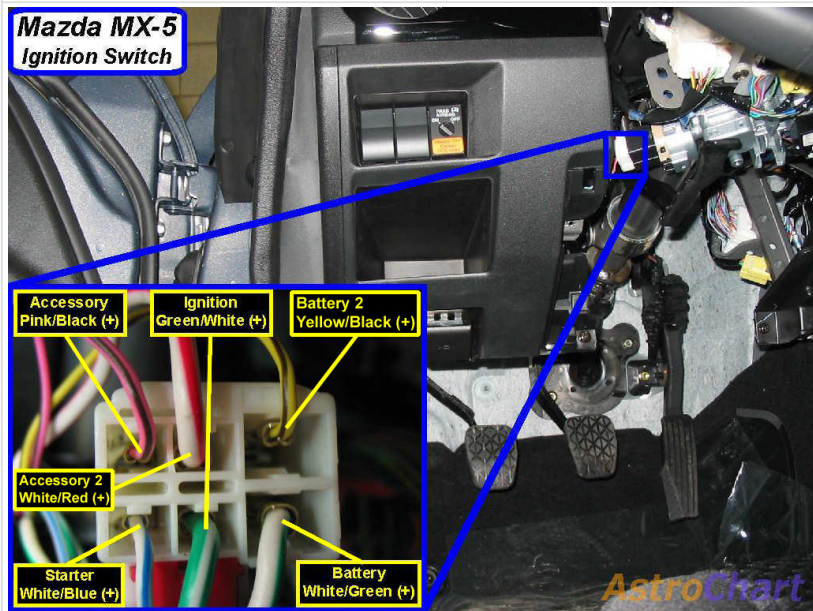
There are no notes for this wire.

Wiring Photo and Notes: Accessory

Wiring Photo and Notes: Accessory
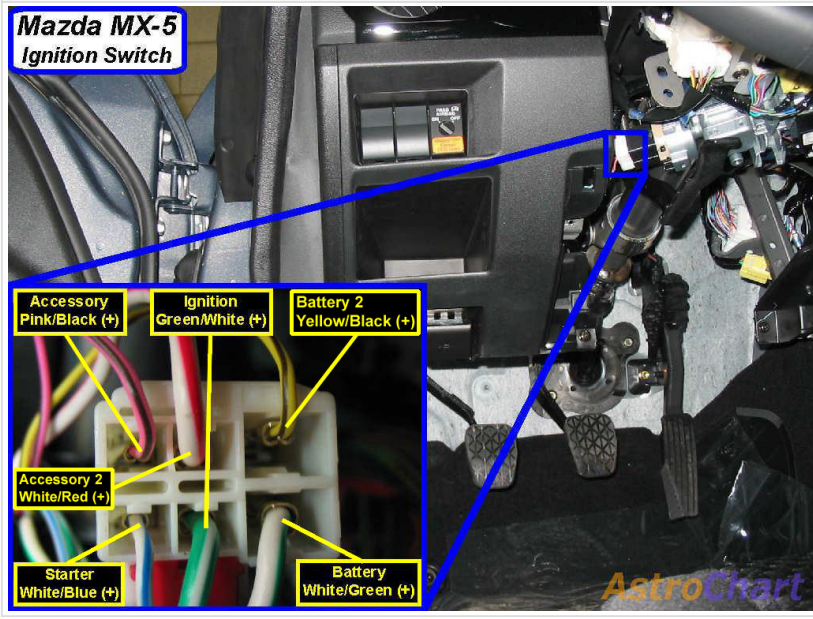
There are no notes for this wire.

Wiring Photo and Notes: Second Accessory
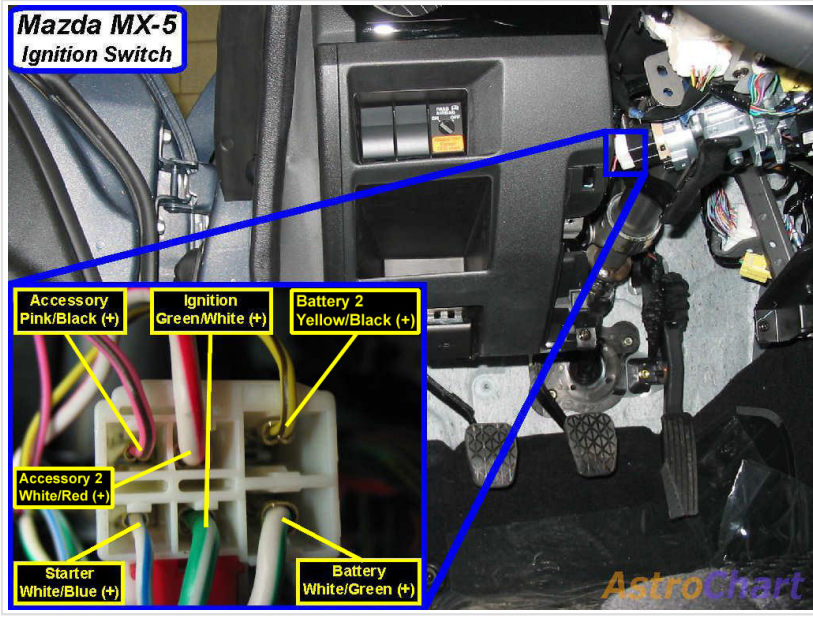
There are no notes for this wire.

Wiring Photo and Notes: Keysense

Wiring Photo and Notes: Keysense
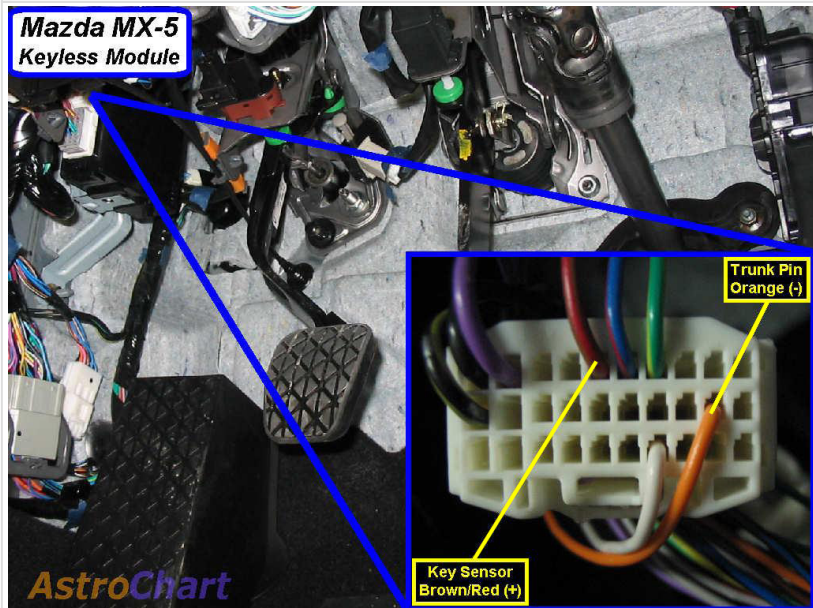
On models with keyless entry, it is also brown/red (+) at the Keyless Control Module above driver kick, white 30 pin plug, pin 25.

Wiring Photo and Notes: Door Lock MUX

There are no notes for this wire.

Wiring Photo and Notes: Power Lock

Wiring Photo and Notes: Power Lock

There are no notes for this wire.

Mazda MX-5
Keyless Module

Brown/White
Door Lock 1kOhm (-)
Door Unlock (-)

Trunk Disarm
Brown (-)

Hazards
Orange (-)

Dome Sensor
Black/Blue (-)

Horn
Green/Orange (-)

AstroChart
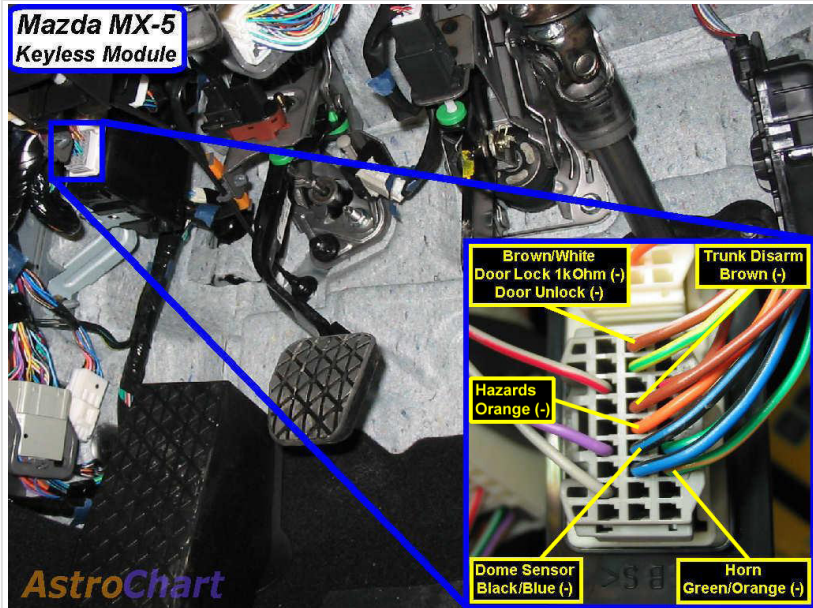
Wiring Photo and Notes: Lock Motor

There are no notes for this wire.

Mazda MX-5
Keyless Module

Driver's Door Unlock
Gray (Reverse)

Lock Motor
Lt. Green
(Reverse)

Passenger Unlock Motor
Green/Black (Reverse)

AstroChart
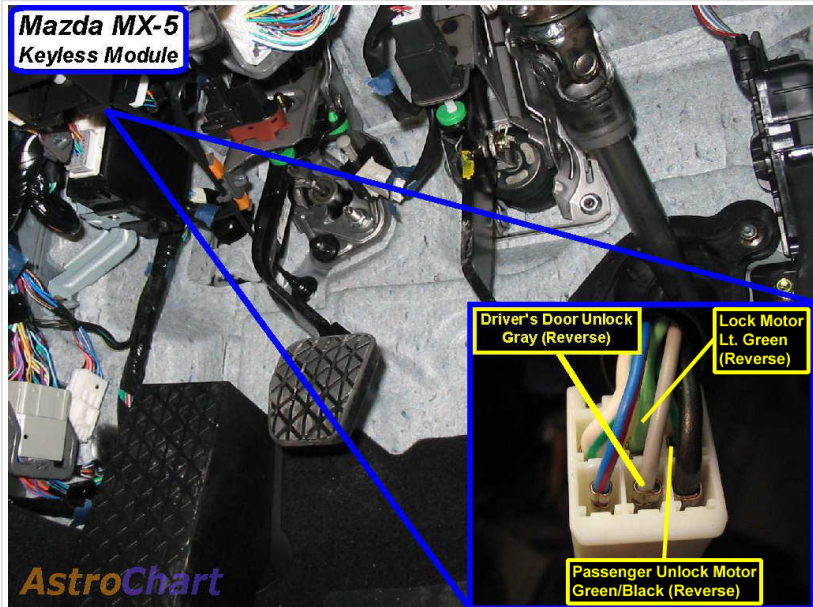
Wiring Photo and Notes: Driver Unlock Motor

Wiring Photo and Notes: Driver Unlock Motor
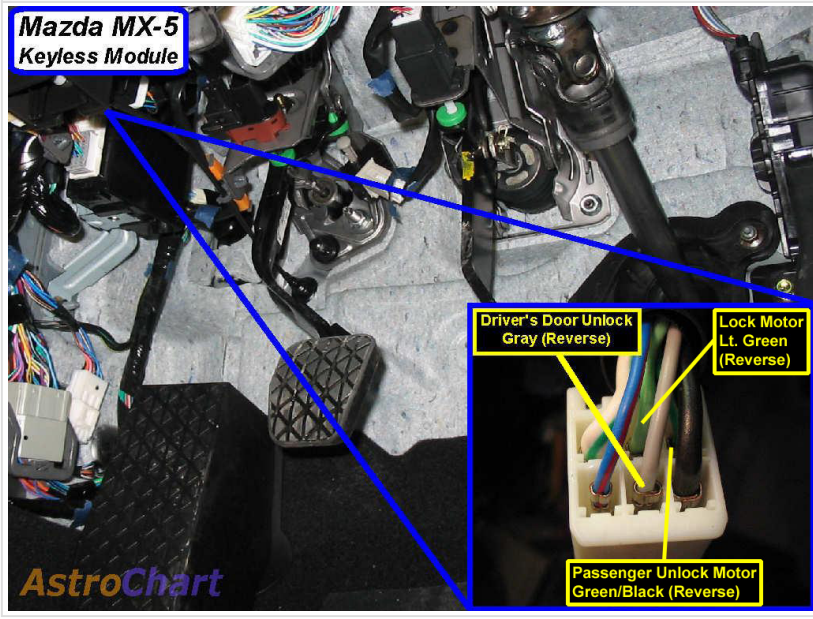
There are no notes for this wire.

Wiring Photo and Notes: Passenger Unlock Motor
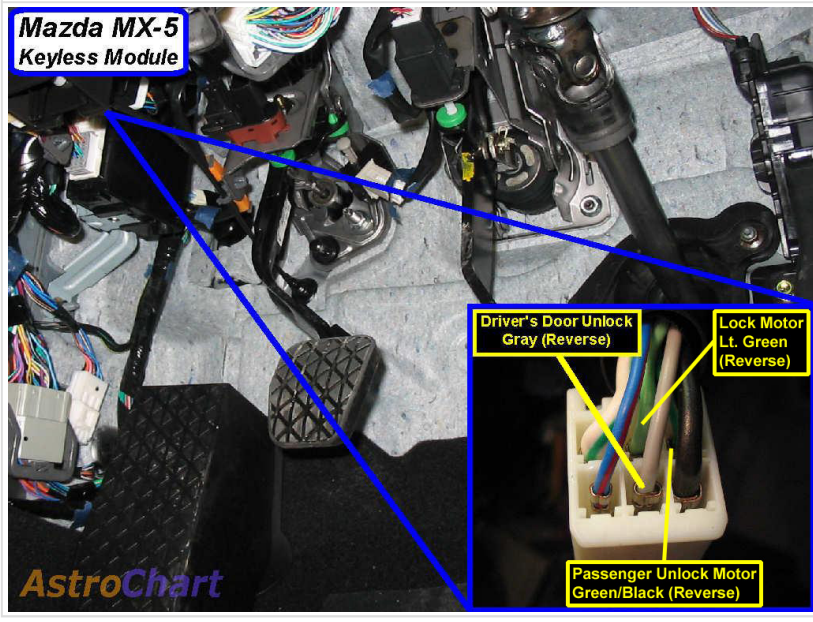
There are no notes for this wire.

Wiring Photo and Notes: Factory Alarm MUX

Wiring Photo and Notes: Factory Alarm MUX
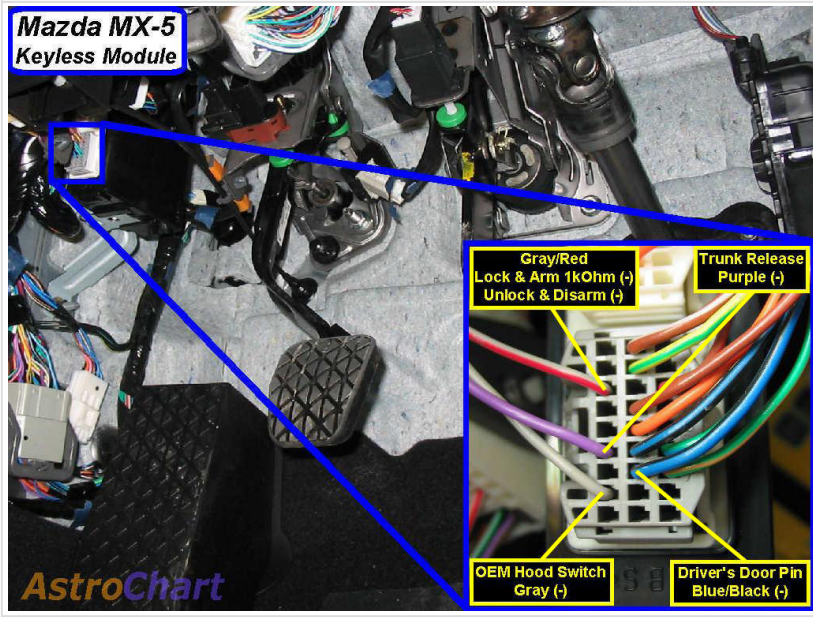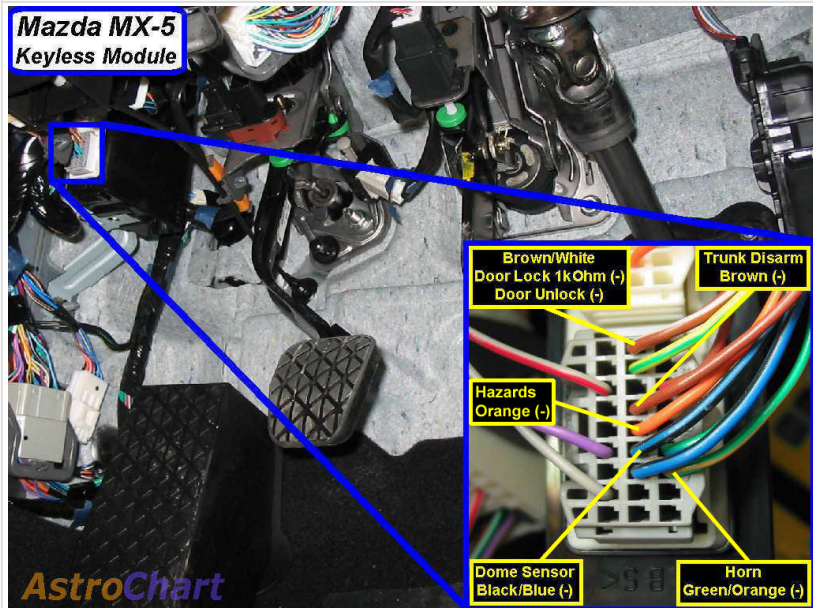

There are no notes for this wire.

Wiring Photo and Notes: Factory Alarm Arm
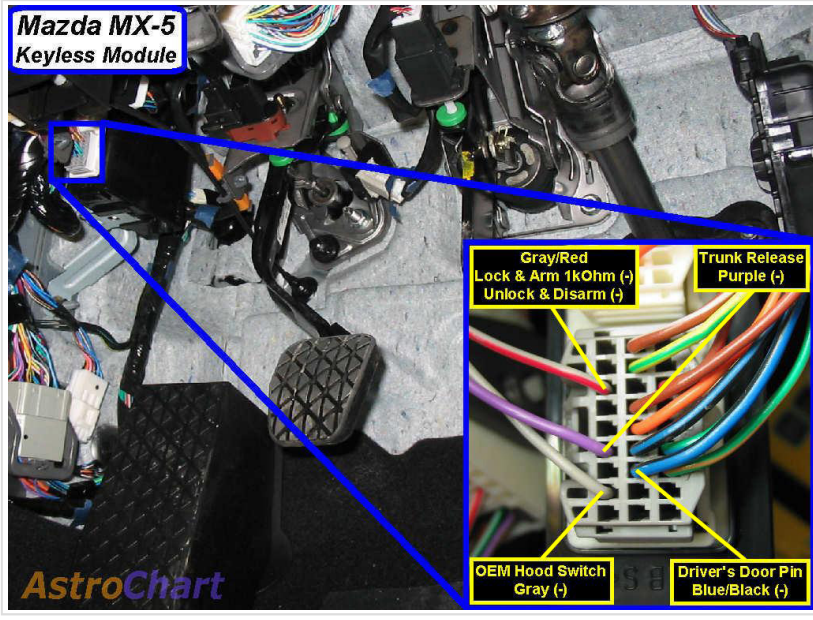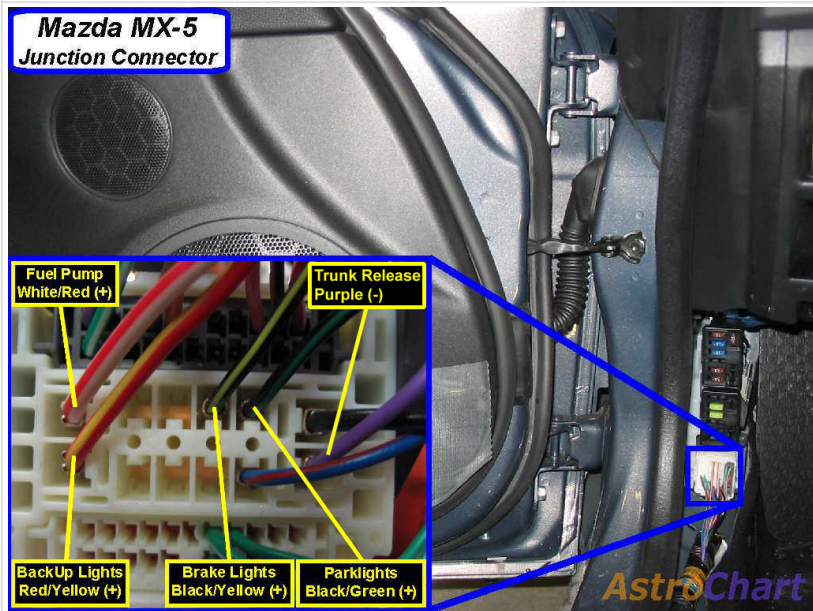

There are no notes for this wire.

Wiring Photo and Notes: Trunk Alarm Shunt

Wiring Photo and Notes: Trunk Alarm Shunt
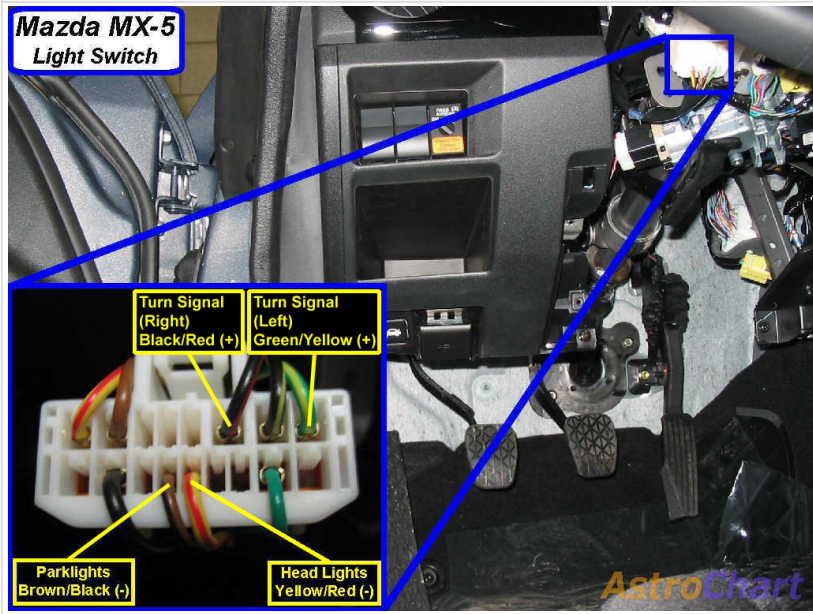

There are no notes for this wire.

Mazda MX-5
Keyless Module

Brown/White
Door Lock 1kOhm (-)
Door Unlock (-)

Trunk Disarm
Brown (-)

Hazards
Orange (-)

Dome Sensor
Black/Blue (-)

Horn
Green/Orange (-)

AstroChart

Wiring Photo and Notes: Parking Lights

There are no notes for this wire.

Mazda MX-5
Junction Connector

Fuel Pump
White/Red (+)

Trunk Release
Purple (-)

BackUp Lights
Red/Yellow (+)

Brake Lights
Black/Yellow (+)

Parklights
Black/Green (+)

AstroChart

Wiring Photo and Notes: Parking Lights -

Wiring Photo and Notes: Parking Lights -

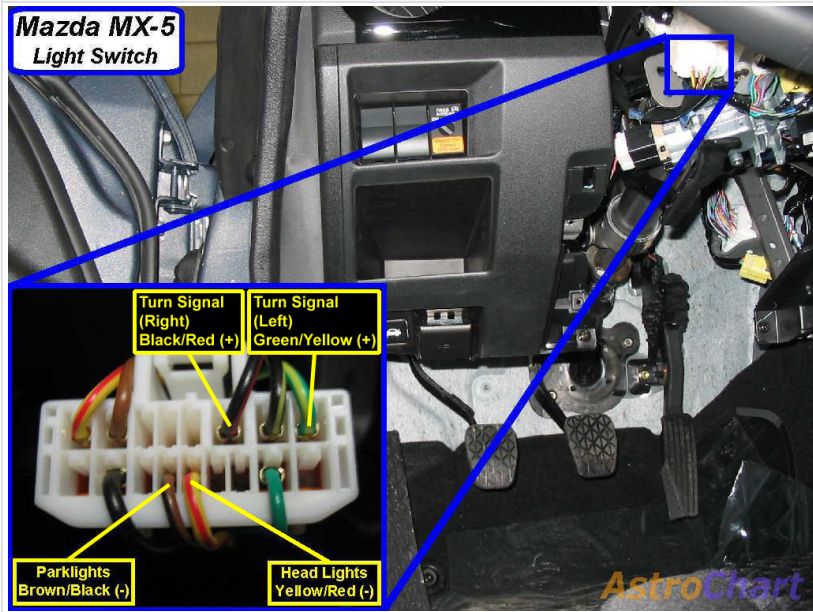There are no notes for this wire.

Wiring Photo and Notes: Hazards
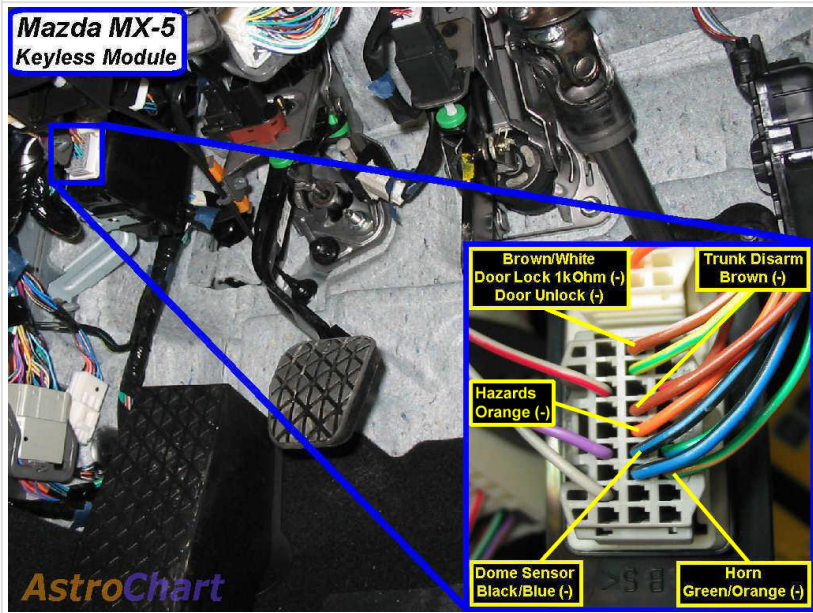
On models with keyless entry, it is also orange (-) at the Keyless Control Module above driver kick, gray 27 pin plug, pin 14.
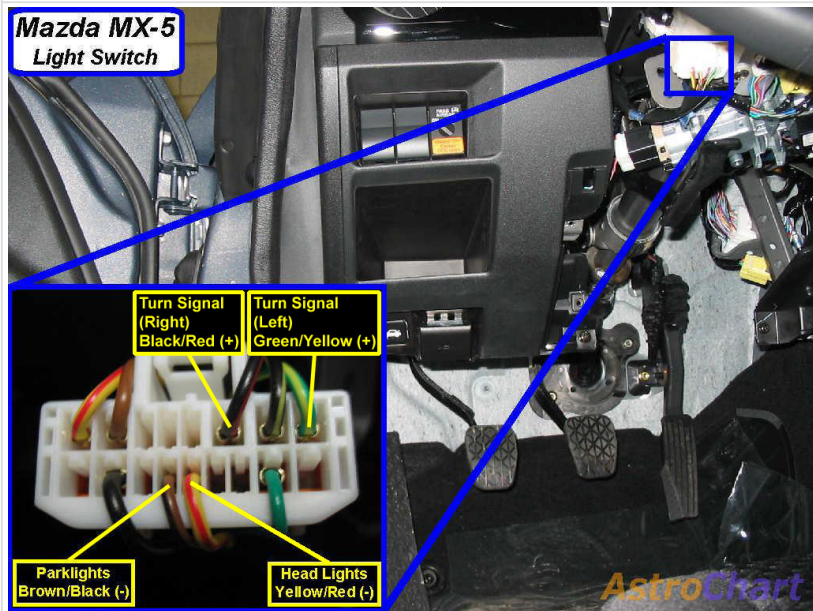
Wiring Photo and Notes: Turn Signal (Left)

Wiring Photo and Notes: Turn Signal (Left)

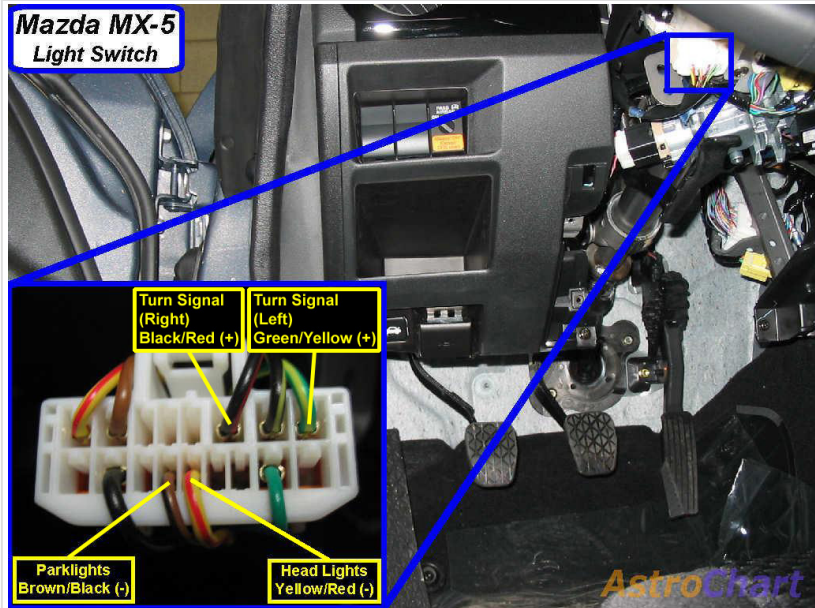There are no notes for this wire.

Wiring Photo and Notes: Turn Signal (Right)
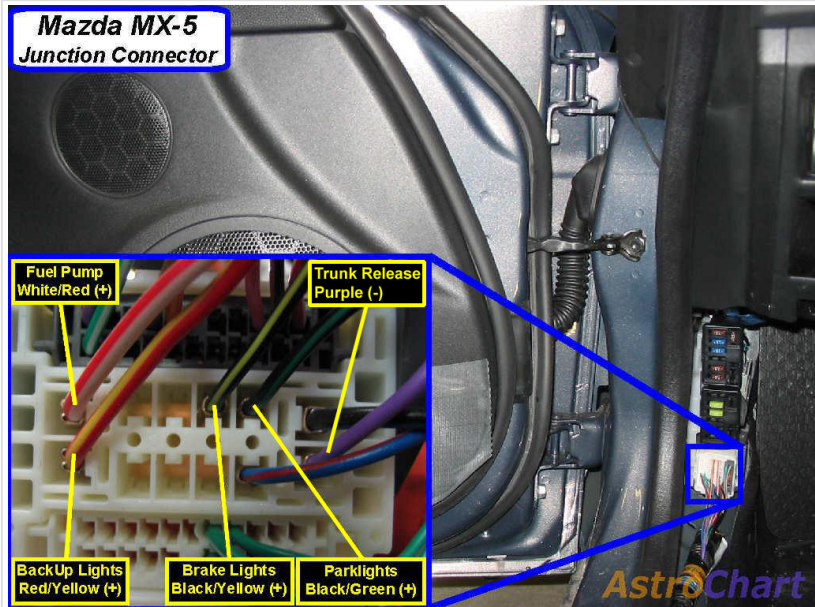

There are no notes for this wire.

Wiring Photo and Notes: Headlight

Wiring Photo and Notes: Headlight

Mazda MX-5
Light Switch

Turn Signal (Right) Black/Red (+)
Turn Signal (Left) Green/Yellow (+)
Parklights Brown/Black (-)
Head Lights Yellow/Red (-)

AstroChart

There are no notes for this wire.

Wiring Photo and Notes: Reverse Light

Mazda MX-5
Junction Connector

Fuel Pump White/Red (+)
Trunk Release Purple (-)
BackUp Lights Red/Yellow (+)
Brake Lights Black/Yellow (+)
Parklights Black/Green (+)

AstroChart
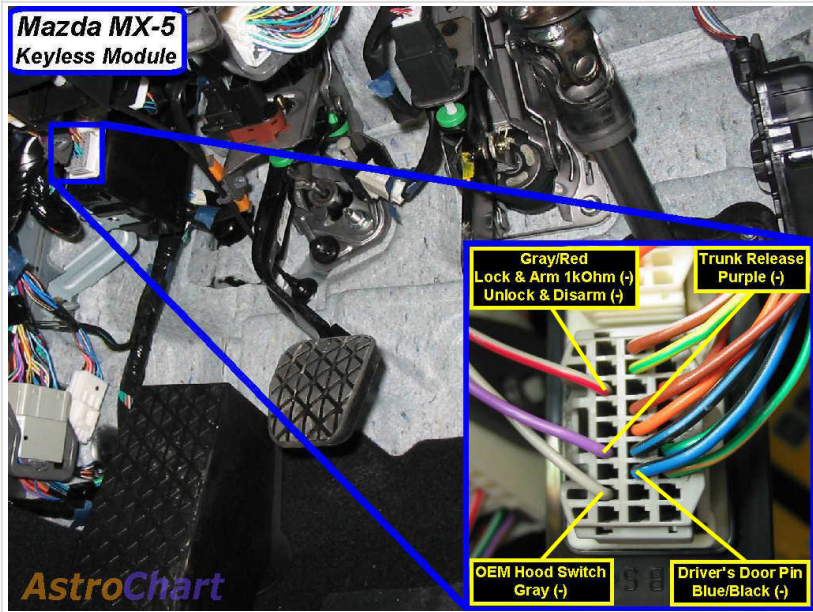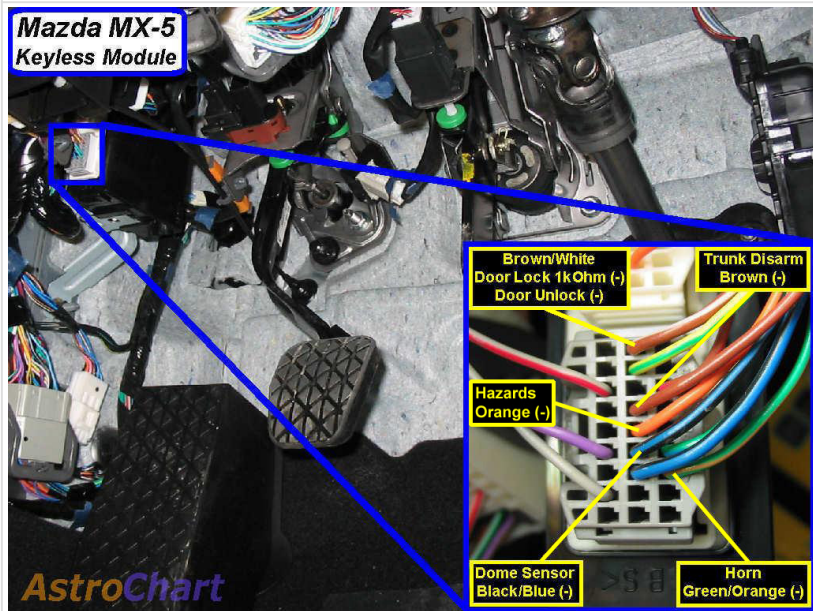
There are no notes for this wire.

Wiring Photo and Notes: Left Front Door Trigger

Wiring Photo and Notes: Left Front Door Trigger

On models with keyless entry, it is also blue/black (-) at the Keyless Control Module above driver kick, gray 27 pin plug, pin 16.
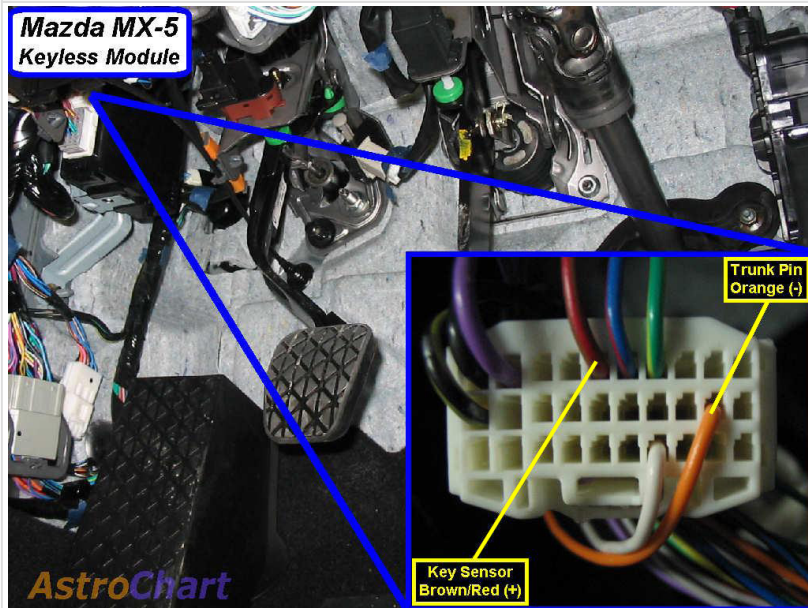
Wiring Photo and Notes: Dome Light

On models with keyless entry, it is also black/blue (-) at the Keyless Control Module above driver kick, gray 27 pin plug, pin 15.
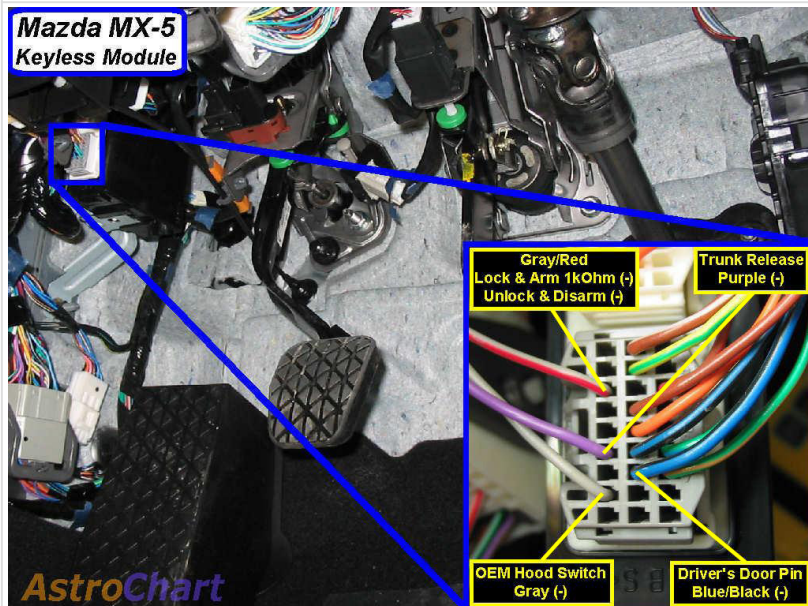
Wiring Photo and Notes: Trunk/Hatch Pin

Wiring Photo and Notes: Trunk/Hatch Pin

On models with keyless entry, it is also orange (-) at the Keyless Control Module above driver kick, white 30 pin plug, pin 19.
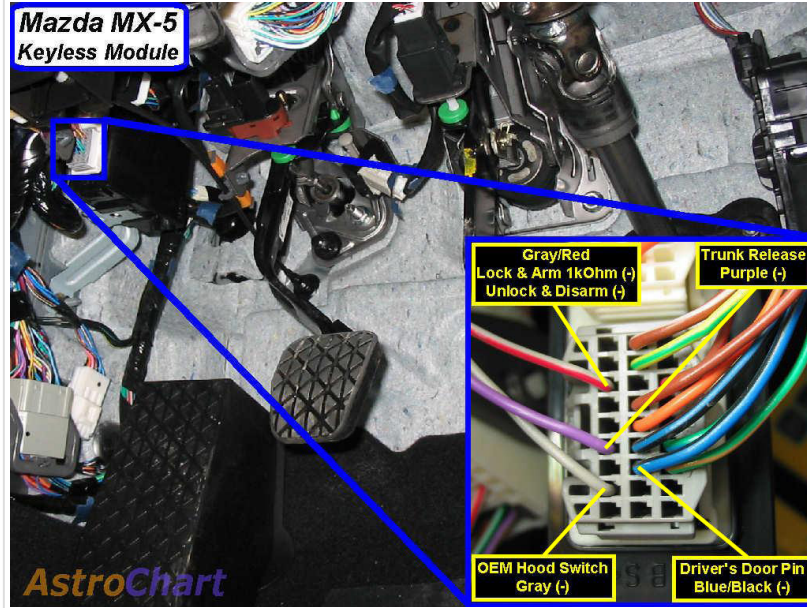
Wiring Photo and Notes: Hood Pin
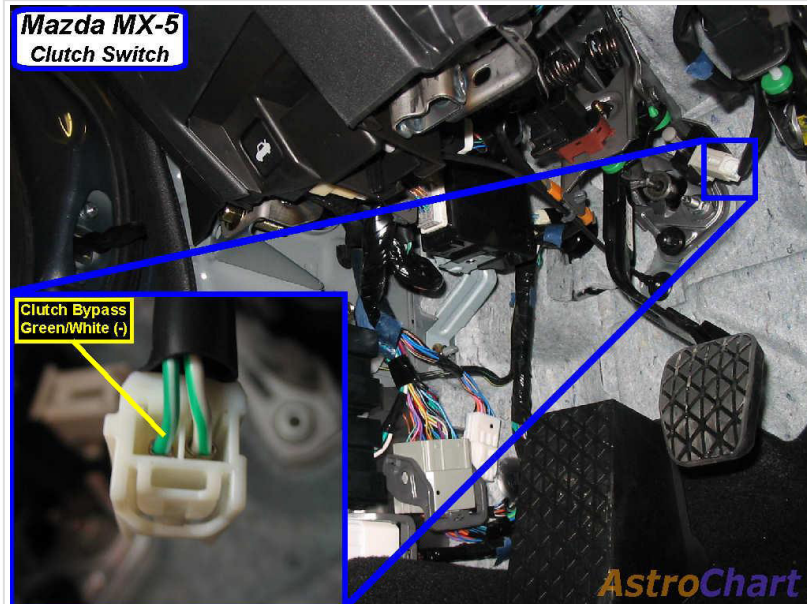

There are no notes for this wire.

Wiring Photo and Notes: Trunk/Hatch Release

Wiring Photo and Notes: Trunk/Hatch Release

On models with keyless entry, it is also purple (-) at the Keyless Control Module above driver kick, gray 27 pin plug, pin 6.
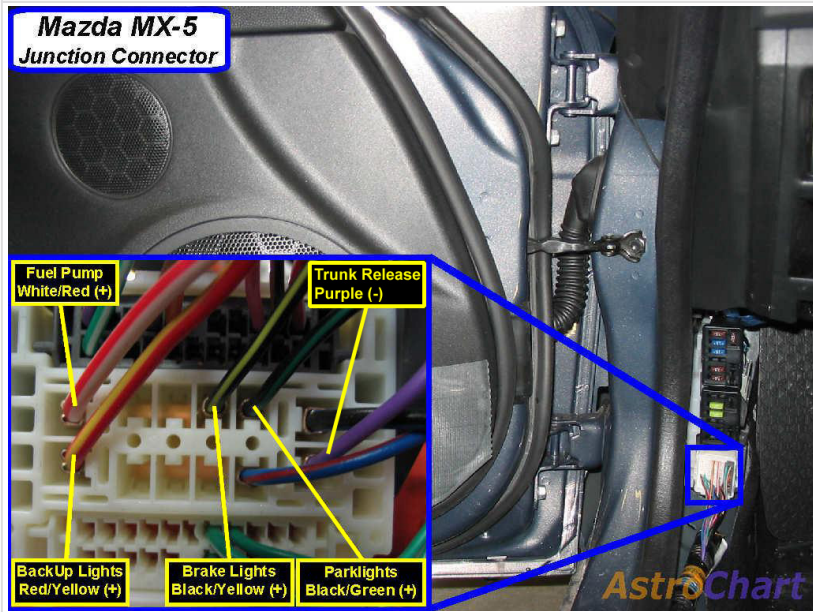
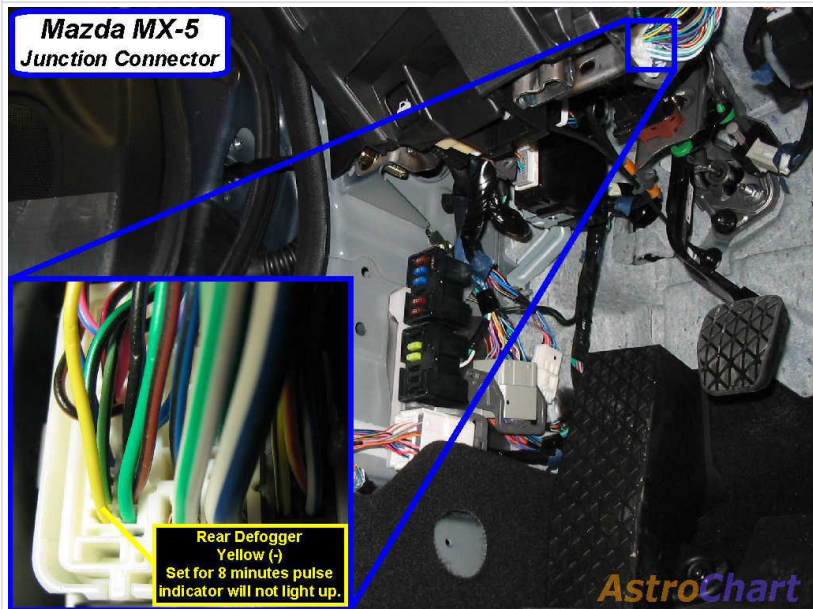**Wiring Photo and Notes: Clutch Pedal**

There are no notes for this wire.

Wiring Photo and Notes: Fuel Pump

Wiring Photo and Notes: Fuel Pump

Mazda MX-5
Junction Connector

Fuel Pump
White/Red (+)

Trunk Release
Purple (-)

BackUp Lights
Red/Yellow (+)

Brake Lights
Black/Yellow (+)

Parklights
Black/Green (+)

AstroChart

There are no notes for this wire.

Wiring Photo and Notes: Rear Defroster

Mazda MX-5
Junction Connector

Rear Defogger
Yellow (-)
Set for 8 minutes pulse
indicator will not light up.

AstroChart

There are no notes for this wire.

Wiring Photo and Notes: Left Front Heated Seat

Wiring Photo and Notes: Left Front Heated Seat

Switch position 1 is -1213 ohms, 2 is -791 ohms, 3 is -426 ohms, 4 is -110 ohms, and 5 is -10 ohms.
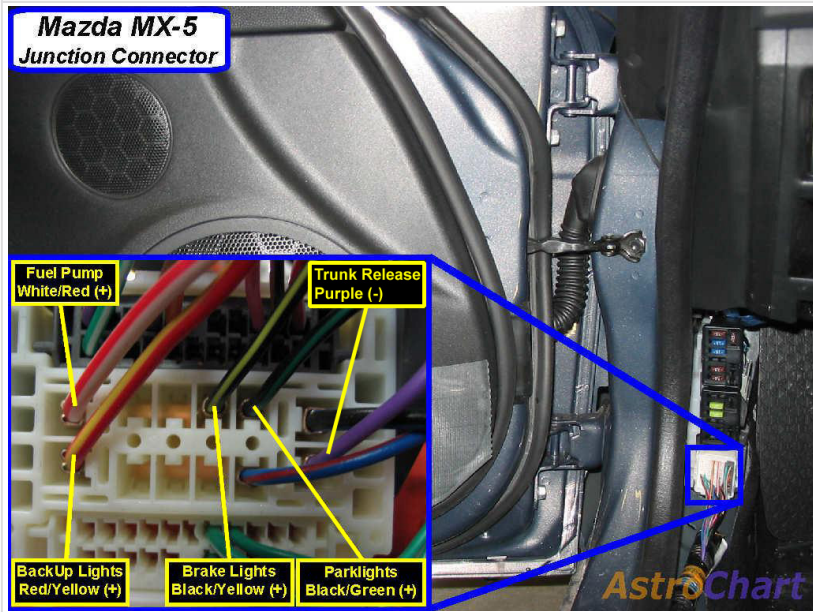
Wiring Photo and Notes: Right Front Heated Seat

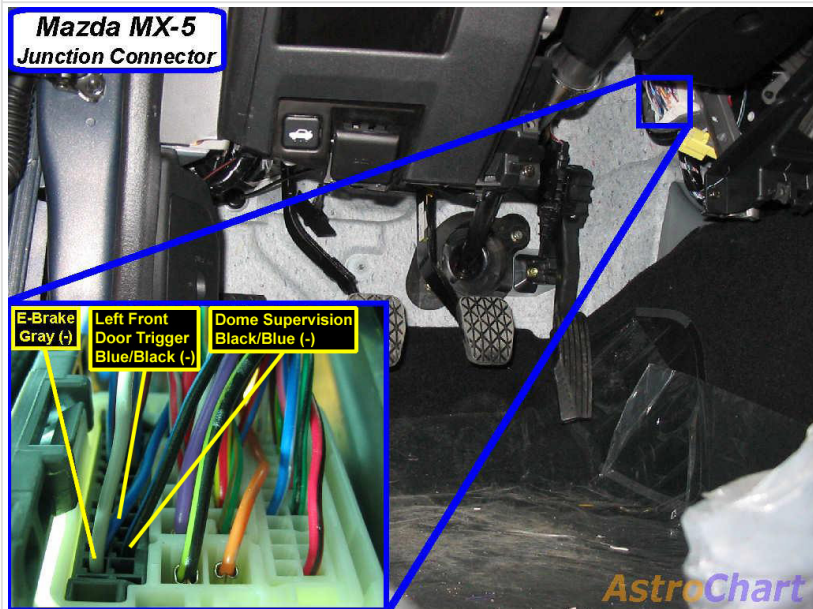Switch position 1 is -1213 ohms, 2 is -791 ohms, 3 is -426 ohms, 4 is -110 ohms, and 5 is -10 ohms.

Wiring Photo and Notes: Brake Wire

Wiring Photo and Notes: Brake Wire

Mazda MX-5
Junction Connector

Fuel Pump
White/Red (+)

Trunk Release
Purple (-)

BackUp Lights
Red/Yellow (+)

Brake Lights
Black/Yellow (+)

Parklights
Black/Green (+)

AstroChart

There are no notes for this wire.

Wiring Photo and Notes: Parking Brake

Mazda MX-5
Junction Connector

E-Brake
Gray (-)

Left Front
Door Trigger
Blue/Black (-)

Dome Supervision
Black/Blue (-)

AstroChart

There are no notes for this wire.

Wiring Photo and Notes: Horn Trigger

Wiring Photo and Notes: Horn Trigger

Mazda MX-5
Keyless Module

Brown/White
Door Lock 1kOhm (-)
Door Unlock (-)

Trunk Disarm
Brown (-)

Hazards
Orange (-)

Dome Sensor
Black/Blue (-)

Horn
Green/Orange (-)

AstroChart
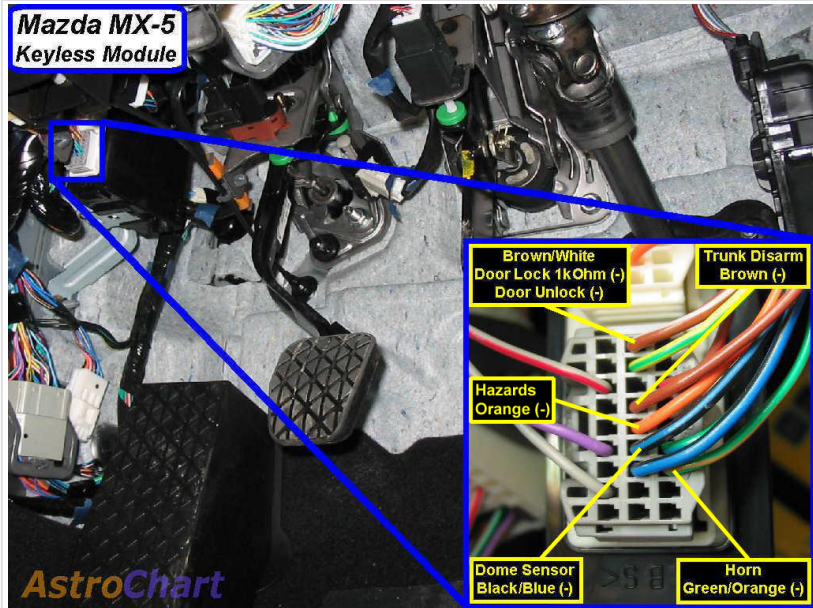
On models with keyless entry, it is also green/orange (-) at the Keyless Control Module above driver kick, gray 27 pin plug, pin 25.

Wiring Photo and Notes: Wipers

Mazda MX-5
Junction Connector

Wipers (High)
Black/Blue (+)

Wipers (Low)
Black/Yellow (+)

Wiper Protection
Black/Lt. Green(Open)
Open this wire with
a relay set for
"Ground When Running"

AstroChart
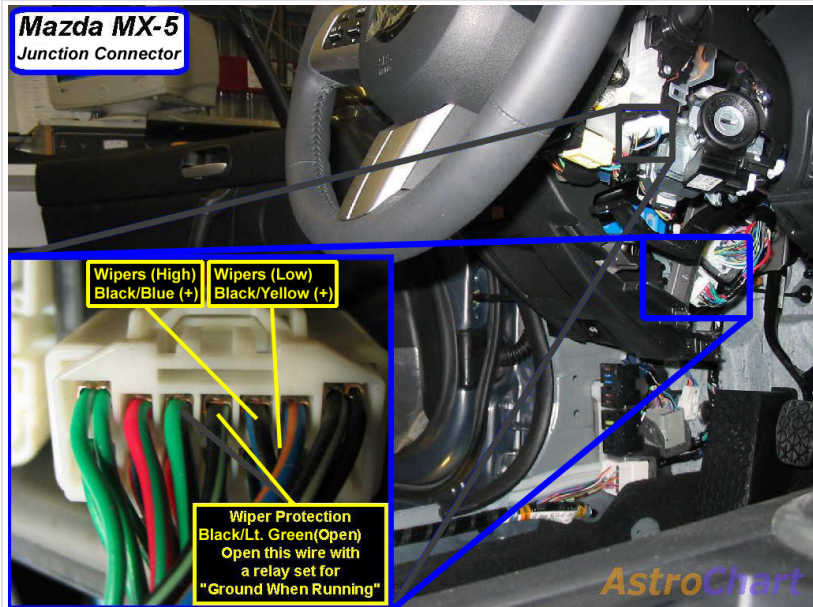
There are no notes for this wire.

Wiring Photo and Notes: Left Front Speaker (+/-)

Wiring Photo and Notes: Left Front Speaker (+/-)

There is currently no photo for this item.

On models with amplifier, the speaker wires are red/green - black/red at the amplifier in trunk right side, black 8 pin plug, pins 8 - 4. The tweeter wires are red/yellow - black/orange at the amplifier, green 16 pin plug, pins 10 - 9.

Wiring Photo and Notes: Right Front Speaker (+/-)

There is currently no photo for this item.

On models with amplifier, the speaker wires are white/black - yellow/black at the amplifier in trunk right side, black 8 pin plug, pins 6 - 2. The tweeter wires are purple/white - black/white at the amplifier, green 16 pin plug, pins 7 - 8.

Wiring Photo and Notes: Left Rear Speaker (+/-)

Wiring Photo and Notes: Left Rear Speaker (+/-)

On models with amplifier, the left and right rear speakers are paralleled, and the wires are purple - pink at the amplifier in trunk right side, green 16 pin plug, pins 3 - 4.

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