

## 2013 Subaru BRZ (Smart Key)



### Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	black/red (140A)	+	dash fuse box, white 1 pin plug (3E), pin 1
<b>Second 12 Volts</b>	N/A		
<b>Starter</b>	pink (SS1), beige (SS2)	-	engine start/stop switch, white 10 pin plug, pins 5 and 1
<b>Second Starter</b>	pink (STSW)	+	above dash fuse box, white 48 pin plug, pin 16
<b>Ignition</b>	purple	+	above dash fuse box, white 48 pin plug, pin 34
<b>Second Ignition</b>	white	+	dash fuse box, rear, white 56 pin plug (3A), pin 15
<b>Third Ignition</b>	N/A		
<b>Accessory</b>	lt. blue	+	dash fuse box, rear, white 56 pin plug (3A), pin 20
<b>Second Accessory</b>	N/A		
<b>Third Accessory</b>	N/A		
<b>Key Sense</b>	N/A		
<b>Data Bus</b>	red (RX), white (TX)	data	engine start/stop switch, white 10 pin plug, pins 8 and 7
<b>Can Bus High</b>	black/yellow	data	data link connector, white 16 pin plug, pin 6
<b>Can Bus Low</b>	lt. green	data	data link connector, white 16 pin plug, pin 14
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	blue	- or +	driver kick, white 22 pin plug, pin 16
<b>Power Unlock</b>	pink	- or +	driver kick, white 22 pin plug, pin 15
<b>Lock Motor</b>	red	5 wire	driver kick, white 10 pin plug, pin 2
<b>Unlock Motor</b>	lt. green	5 wire	driver kick, white 10 pin plug, pin 3
<b>Disarm Defeat</b>	lt. green	5 wire	passenger kick, white 10 pin plug, pin 3
<b>Parking Lights (+)</b>	red	+	driver kick, white 48 pin plug, pin 7
<b>Parking Lights (-)</b>	beige	-	Body ECU attached to dash fuse box, white 30 pin plug, pin 25
<b>Hazards</b>	red	-	hazard switch, white 14 pin plug, pin 7
<b>Turn Signal (Left)</b>	yellow/green	+	driver kick, white 48 pin plug, pin 23
<b>Turn Signal (Right)</b>	white	+	driver kick, white 48 pin plug, pin 22

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	white	-	Body ECU attached to dash fuse box, white 30 pin plug, pin 2
<b>AutoLights</b>	lt. blue (interrupt to turn off autolights)	-	Body ECU attached to dash FB, wh 30 pin plg, pin23
<b>Reverse Light</b>	pink	+	driver kick, white 48 pin plug, pin 5
<b>Left Front Door Trigger</b>	yellow/black	-	driver kick, white 48 pin plug, pin 18
<b>Right Front Door Trigger</b>	lt. green	-	passenger kick, white 14 pin plug, pin 3
<b>Left Rear Door Trigger</b>	N/A		
<b>Right Rear Door Trigger</b>	N/A		
<b>Dome Supervision</b>	blue	-	Body ECU attached to dash fuse box, white 30 pin plug, pin 7
<b>Trunk/Hatch Pin</b>	white/black	-	driver kick, white 48 pin plug, pin 19
<b>Rear Glass Pin</b>	N/A		
<b>Hood Pin</b>	N/A		
<b>Trunk Hatch/Release</b>	blue	-	Body ECU attached to dash fuse box, white 18 pin plug, pin 16
<b>Trunk Release Motor</b>	brown	5 wire	driver kick, white 48 pin plug, pin 4
<b>Fuel Door Release</b>	N/A		
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>	N/A		
<b>Factory Alarm Arm</b>	N/A		
<b>Factory Alarm Disarm</b>	N/A		
<b>Disarm No Unlock</b>	N/A		
<b>Trunk Alarm Shunt</b>	N/A		
<b>Tachometer</b>	gray	ac	above dash fuse box, white 48 pin plug, pin 37
<b>Wait to Start</b>	N/A		
<b>Neutral Safety</b>	green/black (M/T)	-	ECM behind glove box, white 31 pin plug, pin 16
<b>Clutch Pedal</b>	yellow/pink	+	clutch switch, white 2 pin plug, pin 2
<b>Fuel Pump</b>	red	+	passenger kick, white 10 pin plug, pin 8
<b>Rear Defroster</b>	white	- latched	Body ECU attached to dash fuse box, white 28 pin plug, pin 24
<b>Mirror Defroster</b>	same as rear defroster		
<b>Left Front Heated Seat</b>	red	5 wire	driver kick, white 48 pin plug, pin 1
<b>Right Front Heated Seat</b>	lt. green	5 wire	passenger kick, white 10 pin plug, pin 6

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	pink/green	ac	radio, white 28 pin plug, pin 17
Brake Wire	lt. green	+	driver kick, white 48 pin plug, pin 6
Parking Brake	gray	-	parking brake switch, white 1 pin plug, pin 1
Horn Trigger	blue	-	dash fuse box, white 36 pin plug (3D), pin 32
Wipers	black/blue (L), red/blue (H), yellow/red (ignit)	+	wiper switch, white 10 pin plug, pins 3, 4, and 2
Left Front Window (Up/Down)	(motor is part of module)		
Right Front Window (Up/Down)	(motor is part of module)		
Left Rear Window (Up/Down)	N/A		
Right Rear Window (Up/Down)	N/A		
Sun Roof (Open/Close)	N/A		
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	orange	+	radio, white 10 pin plug, pin 4
Radio Ground	black/blue	-	radio, white 10 pin plug, pin 7
Radio Ignition	red	+	radio, white 10 pin plug, pin 3
Radio Illumination	purple (parking lights); black/white (dimmer)	+,-	radio, white 10 pin plug, pin 10; white 6 pin plug, pin 5
Factory Amp Turn-on	brown (front door woofer amp)	+	radio, white 10 pin plug, pin 9
Power Antenna	pink	+	radio, white 10 pin plug, pin 8
Left Front Speaker (+/-)	black - yellow	+,-	radio, white 10 pin plug, pins 2 and 6
Right Front Speaker (+/-)	white/blue - black/blue	+,-	radio, white 10 pin plug, pins 1 and 5
Left Rear Speaker (+/-)	purple - pink	+,-	radio, white 6 pin plug, pins 2 and 6
Right Rear Speaker (+/-)	yellow - black	+,-	radio, white 6 pin plug, pins 1 and 3
Center Channel (+/-)	N/A		
Subwoofer (+/-)	(front door woofer amp uses LF-RF spkrs for input)		
Aux. Audio Input Left (+/-)	blue/yellow - blue/orange	+,-	radio, white 28 pin plug, pins 28 and 27
Aux. Audio Input Right (+/-)	white/blue - blue/orange	+,-	radio, white 28 pin plug, pins 26 and 27
RSE Video (+/-)	N/A		
RSE Audio Left (+/-)	N/A		
RSE Audio Right (+/-)	N/A		
Satellite Radio 12 Volts	N/A		

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DirectWire Vehicle Information - 2/14/2013 12:16:37 AM			
Satellite Radio Ground	N/A		
Satellite Radio Ignition	N/A		
Satellite Radio Antenna	N/A		
Satellite Audio Left (+/-)	N/A		
Satellite Audio Right (+/-)	N/A		

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*What Fits*


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Item	Size	Depth	Location
<b>Headunit</b>	double DIN		center of dash
<b>Left Front Speaker</b>	6.3		left front door
<b>Left Front Tweeter</b>	1.0 (tweeter), 3.5 (midrange)		left front dash
<b>Right Front Speaker</b>	6.3		right front door
<b>Right Front Tweeter</b>	1.0 (tweeter), 3.5 (midrange)		right front dash
<b>Left Rear Speaker</b>	3.5		left rear side panel
<b>Left Rear Tweeter</b>	N/A		
<b>Right Rear Speaker</b>	3.5		right rear side panel
<b>Right Rear Tweeter</b>	N/A		
<b>Center Channel</b>	N/A		
<b>Subwoofer</b>	N/A		
<b>Left Front Headrest</b>			
<b>Right Front Headrest</b>			
<b>Left Right Headrest</b>			
<b>Right Rear Headrest</b>			
<b>Satellite Radio Tuner</b>	(built into radio)		