2013 Subaru Outback - North America

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	white (40A)	+	ignition switch, white 6 pin plug, pin 3
Starter	white/black	+	ignition switch, white 6 pin plug, pin 2
Second Starter	white/green (2.5L); white/orange (3.6L)	+	ignition switch, white 6 pin plug, pin 6
Ignition	green	+	ignition switch, white 6 pin plug, pin 1
Accessory	blue	+	ignition switch, white 6 pin plug, pin 4
Second Accessory	yellow	+	ignition switch, white 6 pin plug, pin 5
Keysense	black/white	+	BIU right of steering column, white 34 pin plug (A), pin 4
CAN Bus High	red	data	BIU right of steering column, white 35 pin plug (B), pin 20
CAN Bus Low	blue	data	BIU right of steering column, white 35 pin plug (B), pin 28
IMMO Data	white/blue	data	BIU right of steering column, white 34 pin plug (A), pin 31
Security Light	brown/red	-	BIU right of steering column, white 31 pin plug (D), pin 26
Door Lock Data	yellow (keyless data)	data	BIU right of steering column, white 31 pin plug (D), pin 11
Power Lock	brown/white	-	BIU right of steering column, white 35 pin plug (C), pin 9
Power Unlock	brown/black	-	BIU right of steering column, white 35 pin plug (C), pin 20
Lock Motor	lt. green/yellow	5 wire	BIU right of steering column, white 31 pin plug (D), pin 2
Driver Unlock Motor	lt. green	5 wire	BIU right of steering column, white 31 pin plug (D), pin 4
Passenger Unlock Motor	red/green	5 wire	BIU right of steering column, white 31 pin plug (D), pin 3
Factory Alarm Arm	(arms on lock with door open)		
Factory Alarm Disarm	(see disarm no unlock)		

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Item	Wire Color	Polarity	Wire Location
Disarm No Unlock	(transponder, ignition, and keysense)		
Parking Lights (+)	black/blue	+	dash fuse box, white 20 pin plug, pin 10
Parking Lights (-)	black/white	-	BIU right of steering column, white 35 pin plug (B), pin 17
Hazards	green	-	BIU right of steering column, white 31 pin plug (D), pin 18
Turn Signal (Left)	blue	+	dash fuse box, white 20 pin plug, pin 20
Turn Signal (Right)	red/green	+	dash fuse box, white 20 pin plug, pin 3
Headlight	pink/white	-	BIU right of steering column, white 35 pin plug (B), pin 34
AutoLights	blue (interrupt to turn off)	-	BIU right of steering column, white 35 pin plug (B), pin 16
Reverse Light	brown/yellow	+	driver kick, white 16 pin plug, pin 7
Left Front Door Trigger	blue/white	-	BIU right of steering column, white 35 pin plug (C), pin 14
Right Front Door Trigger	blue/orange	-	BIU right of steering column, white 35 pin plug (C), pin 13
Left Rear Door Trigger	yellow/red	-	BIU right of steering column, white 35 pin plug (C), pin 24
Right Rear Door Trigger	white/red	-	BIU right of steering column, white 35 pin plug (C), pin 25
Dome Light	brown	-	BIU right of steering column, white 35 pin plug (C), pin 4
Trunk/Hatch Pin	lt. green/black	-	BIU right of steering column, white 35 pin plug (C), pin 33
Hood Pin	yellow/black (with remote start only)	-	hood switch or Remote Start Module behind dash fuse box, white 4 pin plug, pin 4
Trunk/Hatch Release	red (release switch, Legacy) (rear handle switch, Outback)	-	BIU right of steering column, white 35 pin plug (C), pin 10
Trunk Release Motor	white/black	5 wire	BIU right of steering column, white 31 pin plug (D), pin 7

Item	Wire Color	Polarity	Wire Location
Tachometer	red/white to white/green	ac	instrument cluster, white 40 pin plug, pin 30 or ECM behind glove box, white 35 pin plug (B), pin 15
Neutral Safety	green/black (M/T)	-	ECM behind glove box, white 31 pin plug (D), pin 16
Clutch Pedal	black/blue	+	clutch switch, white 5 pin plug, pin 1
Fuel Pump	red/black	+	passenger kick, white 11 pin plug, pin 2
Rear Defroster	purple/green	- latched	BIU right of steering column, white 34 pin plug (A), pin 26
Mirror Defroster	(mirror same as rear defroster); green/black (wiper deicer)	- latched	BIU right of steering column, white 31 pin plug (D), pin 9
Left Front Heated Seat	lt. green (LO)	5 wire	left seat heater switch, white 6 pin plug, pin 5
Right Front Heated Seat	white (LO)	5 wire	right seat heater switch, brown 6 pin plug, pin 5
Speed Sense	green/black or green	ac	driver kick, white 22 pin plug, pin 5
Brake Wire	brown/white	+	BIU right of steering column, white 34 pin plug (A), pin 10
Parking Brake	gray	-	BIU right of steering column, white 35 pin plug (C), pin 32
Horn Trigger	red	-	BIU right of steering column, white 34 pin plug (A), pin 24
Wipers	red/blue (LO); black/blue (HI); green/white (ignition)	+	wiper switch, white 10 pin plug, pins 3, 4, 2
Left Front Window (Up/Down)	blue/red - blue/green	A	power window main switch, white 3 pin plug, pins 3 - 1
Right Front Window (Up/Down)	red - red/blue	A	driver kick, white 28 pin plug, pins 5 - 6
Left Rear Window (Up/Down)	white/red - black/white	A	driver kick, white 28 pin plug, pins 9 - 10
Right Rear Window (Up/Down)	blue - blue/red	A	driver kick, white 28 pin plug, pins 7 - 8
Sun Roof (Open/Close)	black/yellow - white (function with ignition on only)	+	sunroof switch, white 5 pin plug, pins 1 - 4
Memory Seat 1	blue/white	-	driver kick, white 14 pin plug, pin 2

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Item	Wire Color	Polarity	Wire Location
Memory Seat 2	white/black	-	driver kick, white 14 pin plug, pin 9
Radio 12V	green/white and blue/red	+	radio, white 20 pin plug, pins 20, 19, or white 10 pin plug, pin 4
Radio Ground	black	-	radio, white 20 pin plug, pin 10, or white 10 pin plug, pin 7
Radio Ignition	yellow/red	+	radio, white 20 pin plug, pin 3, or white 10 pin plug, pin 3
Radio Illumination	purple (parking lights); black/white (dimmer)	+,-	radio, white 20 pin plug, pins 1, 2
Factory Amp Turn-on	pink	+	radio, white 28 pin plug, pin 3, or white 10 pin plug, pin 9
Power Antenna	yellow/black	+	radio, white 20 pin plug, pin 9, or white 6 pin plug, pin 4
Left Front Speaker (+/-)	brown/white - green or black - green	+,-	radio, white 20 pin plug, pins 8 - 7, or white 10 pin plug, pins 2 - 6
Right Front Speaker (+/-)	red/yellow - white/black or red - white	+,-	radio, white 20 pin plug, pins 18 - 17, or white 10 pin plug, pins 1 - 5
Left Rear Speaker (+/-)	white/red - red/black or white/blue - orange/blue	+,-	radio, white 20 pin plug, pins 6 - 5, or white 6 pin plug, pins 2 - 6
Right Rear Speaker (+/-)	blue/yellow - red/white or blue/yellow - blue/grn	+,-	radio, white 20 pin plug, pins 16 - 15, or white 6 pin plug, pins 1 - 3
Subwoofer (+/-)	blue - pink (1); blue/white - green (2)	+,-	amplifier under passenger seat, white 12 pin plug, pins 5-12; 4-10
Aux. Audio Input Left (+/-)	white - (shield)	+,-	radio, white 24 pin plug, pins 7 - 19
Aux. Audio Input Right (+/-)	red - (shield)	+,-	radio, white 24 pin plug, pins 8 - 19

What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6.5	3	left front door
Left Front Tweeter	1	1	left front dash
Right Front Speaker	6.5	3	right front door
Right Front Tweeter	1	1	right front dash
Left Rear Speaker	6.5	3	left rear door
Right Rear Speaker	6.5	3	right rear door
Subwoofer	8	3	rear deck (Legacy); R rear quarter panel (Outback)
Satellite Radio Tuner			below or above radio

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Additional Wiring Notes

Item	Note
Aux. Audio Input Left (+/-)	On models with handsfree microphone, they are at the radio, white 16 pin plug, pins 3 - 11. On models with premium audio, they are at the radio, white 28 pin plug, pins 28 - 27.
Aux. Audio Input Right (+/-)	On models with handsfree microphone, they are at the radio, white 16 pin plug, pins 4 - 11. On models with premium audio, they are at the radio, white 28 pin plug, pins 26 - 27.
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are brown - green at the amplifier under passenger seat, white 10 pin plug, pins 10 - 4. The tweeter wires are green/yellow - purple at the amplifier, white 12 pin plug, pins 9 - 3.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are black/blue - white/blue at the amplifier under passenger seat, white 10 pin plug, pins 2 - 6.
Parking Brake	In order to make the ready mode neutral safety feature work properly with the electric parking brake on this vehicle, you need to use the + keysense (black/white) wire and the - parking brake (gray) wire, diode isolated and tied to the black/white neutral safety wire of the remote start. It works because the parking brake goes to sleep after a minute, and when the key is removed, the keysense stays negative. Also, the electric parking brake requires the foot brake to be pushed, so there is no way to accidentally disengage the parking brake with pushing the foot brake, thus disabling ready mode.
Power Antenna	On models with navigation, it is at the radio, white 10 pin plug, pin 8.
Radio Illumination	On models with premium audio, they are at the radio, white 10 pin plug, pin 10, and white 6 pin plug, pin 5.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are black/red - white/red at the amplifier under passenger seat, white 10 pin plug, pins 3 - 9. The tweeter wires are yellow - lt. green at the amplifier, white 12 pin plug, pins 2 - 1.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are black - yellow at the amplifier under passenger seat, white 10 pin plug, pins 8 - 7.