

## 2017 Toyota Highlander (Smart Key) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	green (40A)	+	dash fuse box, white 1 pin plug (4L), pin 1
Starter	gray	+	left of dash fuse box, white 20 pin plug, pin 18
Ignition	gray	+	left of dash fuse box, gray 18 pin plug, pin 12
Accessory	gray	+	dash fuse box, rear, white 56 pin plug (4A), pin 28
PTS 1	yellow	-	engine start stop switch, black 10 pin plug, pin 5
PTS 2	purple	-	engine start stop switch, black 10 pin plug, pin 1
SLP	lt. green	-	steering lock actuator on steering column, black 7 pin plug, pin 4
CAN Bus High	red (CAN Bus 2)	data	Body ECU on dash fuse box, white 30 pin plug, pin 14
CAN Bus Low	white (CAN Bus 2)	data	Body ECU on dash fuse box, white 30 pin plug, pin 13
CAN Bus High 2	purple (CAN Diag Bus)	data	data link connector, white 16 pin plug, pin 6
CAN Bus Low 2	white (CAN Diag Bus)	data	data link connector, white 16 pin plug, pin 14
IMMO Data	white (IMO)	data	left of dash fuse box, gray 18 pin plug, pin 14
IMMO Data 2	black (IMI)	data	left of dash fuse box, gray 18 pin plug, pin 15
Security Light	gray	+	dash fuse box, rear, white 56 pin plug (4A), pin 42
Power Lock	red (passenger door switch)	-	dash fuse box, rear, white 32 pin plug (4D), pin 22
Power Unlock	white (passenger door switch)	-	dash fuse box, rear, white 32 pin plug (4D), pin 27
Lock Motor	brown	5 wire	driver kick, gray 18 pin plug, pin 10
Driver Unlock Motor	beige	5 wire	driver kick, gray 18 pin plug, pin 18
Passenger Unlock Motor	lavender/pink	5 wire	dash fuse box, white 36 pin plug (4H), pin 10
Factory Alarm Arm	purple (driver door key lock)	-	Body ECU on dash fuse box, white 30 pin plug, pin 29

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Factory Alarm Disarm	lt. blue (driver door key unlock)	double -	Body ECU on dash fuse box, white 30 pin plug, pin 2
Disarm No Unlock	(proximity key and push-button)		
Parking Lights (+)	lt. green	+	dash fuse box, white 32 pin plug (4F), pin 4
Parking Lights (-)	lt. green	-	Body ECU on dash fuse box, white 30 pin plug, pin 22
Hazards	pink	-	A/C control assembly, black 8 pin plug, pin 7
Turn Signal (Left)	green	+	dash fuse box, white 36 pin plug (4H), pin 7
Turn Signal (Right)	red	+	dash fuse box, white 36 pin plug (4H), pin 6
Headlight	white	-	Body ECU on dash fuse box, white 30 pin plug, pin 12
AutoLights	black	cut	Body ECU on dash fuse box, white 30 pin plug, pin 8
Reverse Light	red	+	dash fuse box, white 36 pin plug (4H), pin 18
Left Front Door Trigger	gray	-	Body ECU on dash fuse box, white 30 pin plug, pin 6
Right Front Door Trigger	blue	-	Body ECU on dash fuse box, white 30 pin plug, pin 27
Left Rear Door Trigger	lt. blue	-	dash fuse box, white 36 pin plug (4H), pin 36
Right Rear Door Trigger	lt. green	-	dash fuse box, rear, white 32 pin plug (4D), pin 30
Dome Light	lavender/white	-	dash fuse box, rear, white 32 pin plug (4D), pin 12
Trunk/Hatch Pin	lavender/yellow	-	dash fuse box, white 36 pin plug (4H), pin 33
Rear Glass Pin	red	-	Body ECU on dash fuse box, white 28 pin plug, pin 27
Hood Pin	black	-	Body ECU on dash fuse box, white 30 pin plug, pin 11
Trunk/Hatch Release	green (glass) (rear handle switch); gray (power liftgate)	-	Body ECU on dash fuse box, white 28 pin plug, pin 28; 5
Fuel Door Release	yellow	-	fuel lid opener switch on dash, black 5 pin plug, pin 4

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Item	Wire Color	Polarity	Wire Location
Tachometer	blue	ac	data link connector, white 16 pin plug, pin 9
Fuel Pump	red (I-4); blue (V6)	+	driver kick, white 18 pin plug, pin 13
Rear Defroster	blue	-	left of dash fuse box, black 18 pin plug, pin 9
Mirror Defroster	(same as rear defroster, without memory); (CAN bus, with memory)		
Left Front Heated Seat	lt. blue	+ latched	seat heater switch, white 10 pin plug, pin 3 or black 12 pin plug, pin 6
Right Front Heated Seat	beige	+ latched	seat heater switch, black 8 pin plug, pin 2 or black 12 pin plug, pin 11
Speed Sense	gray or beige	ac	radio, white 28 pin plug, pin 17
Brake Wire	green to blue	+	brake switch or dash fuse box, white 36 pin plug (4H), pin 3
Parking Brake	green	-	dash fuse box, white 32 pin plug (4F), pin 28
Horn Trigger	green	-	dash fuse box, white 32 pin plug (4F), pin 29
Wipers	black (LO); red (HI); white (ignition)	+	wiper switch, white 10 pin plug, pins 3, 4, 2
Left Front Window (Up/Down)	(use factory alarm arm/disarm)		
Right Front Window (Up/Down)	(use factory alarm arm/disarm)		
Left Rear Window (Up/Down)	yellow - white (without jam protection)	A	driver kick, gray 18 pin plug, pins 2 - 12
Right Rear Window (Up/Down)	lt. blue - lt. green (without jam protection)	A	driver kick, gray 18 pin plug, pins 1 - 11
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	yellow	-	seat memory switch, white 8 pin plug, pin 4
Memory Seat 2	green	-	seat memory switch, white 8 pin plug, pin 3
Radio 12V	lt. blue	+	radio, white 10 pin plug, pin 4
Radio Ground	brown	-	radio, white 10 pin plug, pin 7
Radio Ignition	gray	+	radio, white 10 pin plug, pin 3
Radio Illumination	green (parking lights); white (dimmer)	+,-	radio, white 10 pin plug, pin 10; white 6 pin plug, pin 5

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Item	Wire Color	Polarity	Wire Location
Left Front Speaker (+/-)	lavender/black - lavender/gray or brown - lt. blue	+,-	radio, white 10 pin plug, pins 2 - 6
Right Front Speaker (+/-)	lt. green - blue or lt. green - pink	+,-	radio, white 10 pin plug, pins 1 - 5
Left Rear Speaker (+/-)	blue - red or green - red	+,-	radio, white 6 pin plug, pins 2 - 6
Right Rear Speaker (+/-)	pink - gray	+,-	radio, white 6 pin plug, pins 1 - 3
Center Channel (+/-)	lt. blue - brown	+,-	amplifier under center console, white 30 pin plug, pins 10 - 25
Subwoofer (+/-)	black - lt. blue (1); yellow - gray (2)	+,-	amplifier under center console, white 30 pin plug, pins 8 - 23; 7 - 22
Aux. Audio Input Left (+/-)	white - black	+,-	radio, white 28 pin plug, pins 28 - 27
Aux. Audio Input Right (+/-)	red - black	+,-	radio, white 28 pin plug, pins 26 - 27
RSE Video (+/-)	red - white (rear view camera video)	+,-	radio, white 24 pin plug, pins 12 - 24
RSE Audio Left (+/-)	black - green	+,-	radio, white 12 pin plug, pins 4 - 5
RSE Audio Right (+/-)	red - white	+,-	radio, white 12 pin plug, pins 2 - 3
Satellite Radio 12 Volts	red	+	satellite radio below radio, white 8 pin plug, pin 4
Satellite Radio Ground	black	-	satellite radio below radio, white 8 pin plug, pin 8
Satellite Radio Ignition	yellow	+	satellite radio below radio, white 8 pin plug, pin 3
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	(DIN cable)		
Satellite Audio Right (+/-)	(DIN cable)		

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**What Fits**

Item	Size	Depth	Location
Headunit	double DIN		center of dash
Left Front Speaker	7.1 or 7 x 10		left front door
Left Front Tweeter	2.6 or 3.1		left front dash
Right Front Speaker	7.1 or 7 x 10		right front door
Right Front Tweeter	2.6 or 3.1		right front dash
Left Rear Speaker	6.3 or 7		left rear door
Left Rear Tweeter	3.1		left rear liftgate
Right Rear Speaker	6.3 or 7		right rear door
Right Rear Tweeter	3.1		right rear liftgate
Center Channel	3.1		top center of dash
Subwoofer	7.8		right rear liftgate
Satellite Radio Tuner			below radio

**2017 Toyota Highlander (Smart Key) - North America*****Additional Wiring Notes***

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are pink - purple (woofer); black - gray (tweeter) at the amplifier under center console, white 30 pin plug, pins 11 - 26; 13 - 28.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are blue - red (woofer); yellow - beige (tweeter) at the amplifier under center console, white 30 pin plug, pins 4 - 19; 5 - 20.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are lt. green - blue (woofer); white - black (tweeter) at the amplifier under center console, white 30 pin plug, pins 15 - 30; 14 - 29.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are pink - gray (woofer); red - white (tweeter) at the amplifier under center console, white 30 pin plug, pins 12 - 27; 9 - 24.