2013 Toyota Land Cruiser (Smart Key) - North America

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	black (150A)	+	driver dash fuse box, white 1 pin plug (2A), pin 1
Second 12 Volts	blue (30A)	+	driver dash fuse box, white 24 pin plg (2C), pin 4
Starter	red	+	Body ECU on dash fuse box, white 10 pin plug, pin 4
Ignition	black	+	Body ECU on dash fuse box, white 28 pin plug, pin 11
Second Ignition	green	+	Body ECU on dash fuse box, white 26 pin plug, pin 3
Accessory	pink	+	Body ECU on dash fuse box, white 26 pin plug, pin 22
PTS 1	black	-	Body ECU on dash fuse box, white 26 pin plug, pin 17
PTS 2	black	-	Body ECU on dash fuse box, white 26 pin plug, pin 16
CAN Bus High	gray	data	Body ECU on dash fuse box, white 16 pin plug, pin 16
CAN Bus Low	red	data	Body ECU on dash fuse box, white 16 pin plug, pin 15
RX DATA	green	data	engine start stop switch, black 14 pin plug, pin 10
TX DATA	lt. blue	data	engine start stop switch, black 14 pin plug, pin 9
IMMO Data	white (IMO)	data	behind glove box, white 78 pin plug, pin 27
IMMO Data 2	red (IMI)	data	behind glove box, white 78 pin plug, pin 28
Security Light	purple	+	clock, white 12 pin plug, pin 9 or multi-display, white 24 pin plug, pin 10
Power Lock	red (passenger door switch)	-	driver dash fuse box, rear, white 66 pin plug (2D), pin 49
Power Unlock	green (passenger door switch)	-	driver dash fuse box, rear, white 66 pin plug (2D), pin 52

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Item	Wire Color	Polarity	Wire Location
Lock Motor	blue	5 wire	driver dash fuse box, white 24 pin plug (2C), pin 24
Driver Unlock Motor	black	5 wire	Body ECU on dash fuse box, white 26 pin plug, pin 5
Passenger Unlock Motor	black	5 wire	driver dash fuse box, white 24 pin plug (2C), pin 23
Factory Alarm Arm	lt. green (driver door key lock)	-	driver kick, white 18 pin plug, pin 15
Factory Alarm Disarm	yellow (driver door key unlock)	double -	driver kick, white 18 pin plug, pin 14
Disarm No Unlock	(proximity key and push-button)		
Parking Lights (+)	green	+	driver dash fuse box, white 24 pin plug (2C), pin 22
Parking Lights (-)	purple	-	Body ECU on dash fuse box, white 26 pin plug, pin 23
Hazards	beige	-	Body ECU on dash fuse box, white 16 pin plug, pin 4
Turn Signal (Left)	blue	+	turn signal flasher left of steering column, black 8 pin plug, pin 3
Turn Signal (Right)	red	+	turn signal flasher left of steering column, black 8 pin plug, pin 2
Headlight	red	-	Body ECU on dash fuse box, white 28 pin plug, pin 17
AutoLights	green (interrupt to turn off)	-	Body ECU on dash fuse box, white 26 pin plug, pin 21
Reverse Light	blue	+	driver kick, blue 56 pin plug, pin 19
Left Front Door Trigger	blue	-	Body ECU on dash fuse box, white 26 pin plug, pin 24
Right Front Door Trigger	yellow or pink	-	Body ECU on dash fuse box, white 28 pin plug, pin 21
Left Rear Door Trigger	white	-	driver dash fuse box, white 24 pin plug (2C), pin 2
Right Rear Door Trigger	green	-	Body ECU on dash fuse box, white 28 pin plug, pin 7

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Item	Wire Color	Polarity	Wire Location
Dome Light	green	-	driver dash fuse box, rear, white 66 pin plug (2D), pin 51
Trunk/Hatch Pin	white	-	Body ECU on dash fuse box, white 28 pin plug, pin 25
Hood Pin	white	-	left of steering column, white 78 pin plug, pin 20
Trunk/Hatch Release	blue (rear handle switch)	-	Body ECU on dash fuse box, white 26 pin plug, pin 26
Trunk Release Motor	blue	5 wire	Body ECU on dash fuse box, white 26 pin plug, pin 1
Tachometer	white	ac	Body ECU on dash fuse box, white 16 pin plug, pin 8
Fuel Pump	black	+	driver kick, harness to rear
Rear Defroster	green	- latched	left of steering column, white 78 pin plug, pin 5
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	(climate controlled)		
Right Front Heated Seat	(climate controlled)		
Speed Sense	purple	ac	Body ECU on dash fuse box, white 16 pin plug, pin 9
Brake Wire	red	+	brake switch or driver dash fuse box, white 24 pin plug (2B), pin 22
Parking Brake	yellow	-	driver dash fuse box, rear, white 66 pin plug (2D), pin 22
Horn Trigger	red/white or red	-	driver dash fuse box, white 24 pin plug (2B), pin 1
Wipers	green (LO); red (HI); black (ignition)	+	wiper switch, white 10 pin plug, pins 3, 4, and 2
Left Front Window (Up/Down)	(use factory alarm arm/disarm)		
Right Front Window (Up/Down)	(see left front window)		
Left Rear Window (Up/Down)	(see left front window)		
Right Rear Window (Up/Down)	(see left front window)		

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Item	Wire Color	Polarity	Wire Location
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	green	-	seat memory switch, black 8 pin plug, pin 4
Memory Seat 2	white	-	seat memory switch, black 8 pin plug, pin 3
Memory Seat 3	red	-	seat memory switch, black 8 pin plug, pin 2
Radio 12V	blue or red	+	radio, white 20 pin plug, pin 1 or white 59 pin plug, pin 17
Radio Ground	brown or white/black	-	radio, white 20 pin plug, pin 20 or white 59 pin plug, pin 12
Radio Ignition	gray	+	radio, white 20 pin plug, pin 11 or white 59 pin plug, pin 16
Radio Illumination	green (parking lights); white (dimmer)	+,-	radio, white 20 pin plug, pins 2, 12 or white 59 pin plg, pins 14, 13
Left Front Speaker (+/-)	pink - purple (woofer); white - black (tweeter)	+,-	amp under dr seat, wht 10 pin plg, pins 1-5; wht 12 pin plg, pins 3-8
Right Front Speaker (+/-)	lt. green - blue (woofer); white - black (tweeter)	+,-	amp under dr seat, wht 10 pin plg, pins 2-6; wht 12 pin plg, pins 10-9
Left Rear Speaker (+/-)	white - black (door); white - black (liftgate)	+,-	amp under dr seat, wht 12 pin plg, pins 4-11; wht 10 pin plg, pins 8-7
Right Rear Speaker (+/-)	white - black (door); white - black (liftgate)	+,-	amp under dr seat, wht 12 pin plg, pins 5-12; wht 12 pin plg, pins 2-7
Center Channel (+/-)	white - black	+,-	amplifier under driver seat, white 10 pin plug, pins 3 - 9
Subwoofer (+/-)	white - black (1); red - white (2)	+,-	amp under dr seat, wht 12 pin plg, pins 1-6; wht 10 pin plg, pins 4-10
Aux. Audio Input Left (+/-)	black - red	+,-	radio, wh 20P plg, pins17-16; wh 16P plg, pins8-15
Aux. Audio Input Right (+/-)	white - red	+,-	radio, wh 20P plg, pins15-16; wh 16P plg, pins7-15
RSE Video (+/-)	black - white	+,-	radio, white 16 pin plug, pins 1 - 2
RSE Audio Left (+/-)	black - green (USB audio without multi-display)	+,-	radio, white 12 pin plug, pins 4 - 5
RSE Audio Right (+/-)	white - red (USB audio without multi-display)	+,-	radio, white 12 pin plug, pins 2 - 3

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Item	Wire Color	Polarity	Wire Location
Satellite Radio 12 Volts	(built into radio)		

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What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6 x 9		left front door
Left Front Tweeter	0.7 (pillar), 3.1 (dash)		left front pillar, left front dash
Right Front Speaker	6 x 9		right front door
Right Front Tweeter	0.7 (pillar), 3.1 (dash)		right front pillar, right front dash
Left Rear Speaker	6.5		left rear door
Left Rear Tweeter	0.7 (door), 3.1 (liftgate)		left rear door, left rear liftgate
Right Rear Speaker	6.5		right rear door
Right Rear Tweeter	0.7 (door), 3.1 (liftgate)		right rear door, right rear liftgate
Center Channel	3.1		top center of dash
Subwoofer	10		right rear quarter panel
Satellite Radio Tuner	(built into radio)		

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Additional Wiring Notes

Item	Note
Center Channel (+/-)	On models with multi-display, they are at the amplifier under driver seat, white 30 pin plug, pins 7 - 22.
Left Front Speaker (+/-)	On models with multi-display, they are at the amplifier under driver seat, white 30 pin plug, pins 4 - 19; 12 - 27.
Left Rear Speaker (+/-)	On models with multi-display, they are at the amplifier under driver seat, white 30 pin plug, pins 14 - 29; 10 - 25.
Power Lock	This wire is only needed if the door locks do not function with the aftermarket system while the vehicle is running. All other times just use the factory alarm arm wire.
Power Unlock	This wire is only needed if the door locks do not function with the aftermarket system while the vehicle is running. All other times just use the factory alarm disarm wire.
Right Front Speaker (+/-)	On models with multi-display, they are at the amplifier under driver seat, white 30 pin plug, pins 5 - 20; 13 - 28.
Right Rear Speaker (+/-)	On models with multi-display, they are at the amplifier under driver seat, white 30 pin plug, pins 15 - 30; 11 - 26.
Subwoofer (+/-)	On models with multi-display, they are at the amplifier under driver seat, white 30 pin plug, pins 6 - 21; 8 - 23.
Speed Sense	Also found at the radio, white 20 pin plug, pin 3, or white 59 pin plug, pin 56.