2020 Lexus RX350(SmartKey) - Requested by: ampire.de

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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Blue (40A)	+	Dash Fuse Box, white 1 pin plug (2F), pin 1
Ground	(chassis ground)		
Starter	Black	+	Certification ECU behind glove box, white 21 pin plug, pin 9
Ignition	Yellow	+	Dash Fuse Box, white 32 pin plug (2C), pin 12
Accessory	Gray	+	Junction Connector left of dash fuse box, blue 22 pin plug, pin 7
Ignition Interrupt	Green	Cut	Certification ECU behind glove box, top white 27 pin plug, pin 17
Ignition Interrupt 2	Green (alternate location)	Cut	Dash Fuse Box, rear, white 56 pin plug (2A), pin 17
Telematics Interrupt	Yellow	Cut	Dash Fuse Box, rear, white 56 pin plug (2A), pin 33
PTS 1	Pink	-	Engine Start Stop Switch, black 10 pin plug, pin 5
PTS 2	Violet	-	Engine Start Stop Switch, black 10 pin plug, pin 1
SLP	Gray	-	Steering Lock Actuator on steering column, black 7 pin plug, pin 4
Keysense	White	-	Certification ECU behind glove box, white 21 pin plug, pin 15
CAN Bus High	Lt. Blue	Data	Network Gateway ECU behind glove box, black 24 pin plug, pin 6
CAN Bus Low	White	Data	Network Gateway ECU behind glove box, black 24 pin plug, pin 21
CAN Bus High 2	Red (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 6
CAN Bus Low 2	White (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 14
CAN Bus High 3	Blue	Data	Body ECU on dash fuse box, white 30 pin plug, pin 14
CAN Bus Low 3	White	Data	Body ECU on dash fuse box, white 30 pin plug, pin 13

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Item	Wire Color	Polarity	Wire Location
IMMO Data	Black (IMO)	Data	Driver Kick, gray 63 pin plug, pin 17
IMMO Data 2	Black (IMI)	Data	Driver Kick, gray 63 pin plug, pin 16
Security Light	Blue	+	Certification ECU behind glove box, top white 27 pin plug, pin 20
RDA	White	Data	Certification ECU behind glove box, middle white 27 pin plug, pin 19
Power Lock	black (passenger door switch)	-	dash fuse box, rear, white 32 pin plug (2B), pin 16
Power Unlock	gray (passenger door switch)	-	dash fuse box, rear, white 56 pin plug (2A), pin 39
Lock Motor	black	5 wire	dash fuse box, white 36 pin plug (2D), pin 18
Driver Unlock Motor	beige	5 wire	driver kick, white 62 pin plug, pin 12
Passenger Unlock Motor	white	5 wire	dash fuse box, white 36 pin plug (2D), pin 8
Factory Alarm Arm	Pink (driver door key lock)	-	Body ECU on dash fuse box, white 30 pin plug, pin 29
Factory Alarm Disarm	Violet (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	black (rear only on models with 3 beam LED headlight)	+	dash fuse box, white 36 pin plug (2D), pin 30
Parking Lights -	violet	-	Body ECU on dash fuse box, white 30 pin plug, pin 22
Hazards	gray	-	radio, white 20 pin plug, pin 4 or white 16 pin plug, pin 9
Turn Signal (Left)	black (F); pink (R)	+	driver kick, white 62 pin plug, pin 9; dash fuse box, white 36 pin plug (2D), pin 13
Turn Signal (Right)	pink (F); blue (R)	+	passenger kick, blue 10 pin plug, pin 8; dash fuse box, white 36 pin plug (2D), pin 16
Headlight	yellow	-	Body ECU on dash fuse box, white 30 pin plug, pin 12
AutoLights	Green	Cut	Body ECU on dash fuse box, white 30 pin plug, pin 8

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Item	Wire Color	Polarity	Wire Location
Reverse Light	red	+	dash fuse box, white 36 pin plug (2D), pin 10
Left Front Door Trigger	pink	-	Body ECU on dash fuse box, white 30 pin plug, pin 6
Right Front Door Trigger	red	-	Body ECU on dash fuse box, white 30 pin plug, pin 27
Left Rear Door Trigger	white	-	dash fuse box, white 36 pin plug (2D), pin 24
Right Rear Door Trigger	red	-	dash fuse box, rear, white 56 pin plug (2A), pin 31
Dome Light	gray	-	dash fuse box, rear, white 32 pin plug (2B), pin 29
Trunk/Hatch Pin	lavender/red	-	left luggage compartment light, white 2 pin plug, pin 1
Hood Pin	red	-	Body ECU on dash fuse box, white 30 pin plug, pin 11
Power Liftgate	red	-	Body ECU on dash fuse box, white 28 pin plug, pin 5
Trunk/Hatch Release	green (rear handle switch)	-	Certification ECU behind glove box, middle white 27 pin plug, pin 26
Fuel Door Release	(unlocks along with driver door)		
Tachometer	black	ac	Certification ECU behind glove box, white 21 pin plug, pin 16
Fuel Pump	red	+	driver kick, gray 12 pin plug, pin 1
Rear Defroster	pink	-	driver kick, gray 63 pin plug, pin 44
Mirror Defroster	(CAN bus)		
Left Front Heated Seat	(LIN bus)		
Right Front Heated Seat	(LIN bus)		
Speed Sense	lt. blue	ac	radio, white 28 pin plug, pin 17 or white 59 pin plug, pin 56
Brake Wire	yellow or lt. blue	+	brake switch, white 5 pin plug, pin 2 or driver kick, blue 18 pin plug, pin 7
Parking Brake	lt. blue (electric parking brake indicator)	-	electric parking brake switch, black 16 pin plug, pin 5

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Item	Wire Color	Polarity	Wire Location
Horn Trigger	green	-	dash fuse box, white 32 pin plug (2C), pin 27
Wipers	(LIN bus)		
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)		
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	green	-	seat memory switch, black 8 pin plug, pin 8
Memory Seat 2	violet	-	seat memory switch, black 8 pin plug, pin 6
Memory Seat 3	red	-	seat memory switch, black 8 pin plug, pin 3
Radio 12V	beige or lavenger/beige	+	radio, white 10 pin plug, pin 4 or white 59 pin plug, pin 17
Radio Ground	white/black	-	radio, white 10 pin plug, pin 7 or white 59 pin plug, pin 12
Radio Ignition	lt. blue	+	radio, white 10 pin plug, pin 3 or white 59 pin plug, pin 16
Radio Illumination	lt. green	+	radio, white 10 pin plug, pin 10 or white 59 pin plug, pin 14
Left Front Speaker (+/-)	blue - lt. green (woofer); red - brown (tweeter)	+,-	amplifier under rear of center console, white 30 pin plug, pins 4 - 19; 12 - 27
Right Front Speaker (+/-)	green - red (woofer); lt. green - blue (tweeter)	+,-	amplifier under rear of center console, white 30 pin plug, pins 5 - 20; 13 - 28
Left Rear Speaker (+/-)	black - yellow (door speaker); pink - red (surround)	+,-	amplifier under rear of center console, white 30 pin plug, pins 14 - 29; 10 - 25
Right Rear Speaker (+/-)	red - white (door speaker); white - gray (surround)	+,-	amplifier under rear of center console, white 30 pin plug, pins 15 - 30; 11 - 26

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Item	Wire Color	Polarity	Wire Location
Center Channel (+/-)	blue - pink or blue - violet	+,-	amplifier under rear of center console, white 30 pin plug, pins 7 - 22
Subwoofer (+/-)	gray - white	+,-	amplifier under rear of center console, white 30 pin plug, pins 6 - 21
Aux. Audio Input Left (+/-)	green - pink	+,-	radio, white 28 pin plug, pins 28 - 27 or white 16 pin plug, pins 8 - 15
Aux. Audio Input Right (+/-)	blue - pink	+,-	radio, white 28 pin plug, pins 26 - 27 or white 16 pin plug, pins 7 - 15
RSE Video (+/-)	lt. green - pink or brown - lt. blue (rear view camera video)	+,-	driver kick, white 62 pin plug, pins 27 - 26
RSE Audio Left (+/-)	(MOST)		
RSE Audio Right (+/-)	(MOST)		
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	7.1 or 7x10		left front door
Left Front Tweeter	2.6 or 3.5		left front dash
Right Front Speaker	7.1 or 7x10		right front door
Right Front Tweeter	2.6 or 3.5		right front dash
Left Rear Speaker	6.3 or 6.7		left rear door
Left Rear Tweeter	0.9 (tweeter); 3.5 (surround)		left rear door; left rear pillar
Right Rear Speaker	6.3 or 6.7		right rear door
Right Rear Tweeter	0.9 (tweeter); 3.5 (surround)		right rear door; right rear pillar
Center Channel	2.6 or 3.5		top center of dash
Subwoofer	7.8		left rear quarter panel
Satellite Radio Tuner	(built into radio)		