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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	White (50A)	+	Dash Fuse Box, white 1 pin plug (4L), pin 1
Ground	(chassis ground)		
Starter	Blue	+	Left of Dash Fuse Box, white 20 pin plug (AG4), pin 5
Ignition	Pink	+	Dash Fuse Box, white 32 pin plug (4F), pin 13
Accessory	Green	+	Dash Fuse Box, rear, white 56 pin plug (4A), pin 30
Telematics Interrupt	Black	Cut	Dash Fuse Box, rear, white 56 pin plug (4A), pin 33
PTS 1	Gray	-	Push Start Switch, black 10 pin plug, pin 5
PTS 2	Blue	-	Push Start Switch, black 10 pin plug, pin 1
SLP	Tan	-	Steering Lock Actuator on steering column, black 7 pin plug, pin 4
CAN Bus High	Tan	Data	Body ECU on dash fuse box, black 30 pin plug, pin 5
CAN Bus Low	Violet	Data	Body ECU on dash fuse box, black 30 pin plug, pin 4
CAN Bus High 2	Black (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 6
CAN Bus Low 2	Violet (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 14
OBD 12 Volts	Red (7.5A)	+	OBD-Data Link Connector, white 16 pin plug, pin 16
OBD Ground	White/Black	-	OBD-Data Link Connector, white 16 pin plug, pin 4
OBD Connector	White		Under Driver Dash, Next To Hood Release
IMMO Data	Lavender/Lt. Green (IMO)	Data	Left of Dash Fuse Box, white 20 pin plug (AG4), pin 3
IMMO Data 2	Lavender/Blue (IMI)	Data	Left of Dash Fuse Box, white 20 pin plug (AG4), pin 14

2020 Toyota RAV4Hybrid(SmartKey) - Requested by: ampire.de



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Item	Wire Color	Polarity	Wire Location
Security Light	Red	+	Instrument Cluster, black 38 pin plug, pin 7
RDA	Green	Data	Certification ECU behind glove box, middle white 27 pin plug, pin 19
Power Lock	(use factory alarm arm)		
Power Unlock	(use factory alarm disarm)		
Power Lock2	Lt. Green (passenger switch) (if needed)	-	Dash Fuse Box, rear, white 32 pin plug (4D), pin 16
Power Unlock2	Gray (passenger switch) (if needed)	-	Dash Fuse Box, rear, white 56 pin plug (4A), pin 39
Lock Motor	White	Reverse	Driver Kick, black 20 pin plug (JN1), pin 18
Driver Unlock Motor	Gray	Reverse	Driver Kick, white 18 pin plug (JG1), pin 1
Passenger Unlock Motor	Red	Reverse	Dash Fuse Box, white 36 pin plug (4H), pin 9
Factory Alarm Arm	Lt. Green (key lock)	-	Body ECU on dash fuse box, black 21 pin plug, pin 18
Factory Alarm Disarm	Tan (key unlock)	Double -	Body ECU on dash fuse box, black 21 pin plug, pin 17
Parking Lights	Lavender/Red (rear only on models with auto-leveling headlight)	+	Dash Fuse Box, white 36 pin plug (4H), pin 30
Parking Lights -	Green	-	Headlight Switch, white 40 pin plug, pin 3
Hazards	Pink	-	Hazard Switch, blue 6 pin plug, pin 5
Turn Signal (Left)	Lavender/Lt. Green (LF); Lavender/Tan (LR)	+	Dash Fuse Box, white 32 pin plug (4F), pin 6 (LF); Driver Kick, black 12 pin plug (GN5), pin 12 (LR)
Turn Signal (Right)	Green or Lavender/Green (RF); Lavender/Black (RR)	+	Dash Fuse Box, white 32 pin plug (4F), pin 8 (RF); Driver Kick, black 12 pin plug (GN5), pin 1 (RR)
Headlight	Red	-	Headlight Switch, white 40 pin plug, pin 4
AutoLights	Yellow	Cut	Headlight Switch, white 40 pin plug, pin 5
Reverse Light	Blue	+	Dash Fuse Box, white 36 pin plug (4H), pin 10
Reverse Light 2	White (alternate location)	+	Radio, gray 28 pin plug, pin 28

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Item	Wire Color	Polarity	Wire Location
Left Front Door Trigger	Red	-	Body ECU on dash fuse box, black 30 pin plug, pin 1
Right Front Door Trigger	Tan	-	Body ECU on dash fuse box, black 30 pin plug, pin 6
Left Rear Door Trigger	Green	-	Dash Fuse Box, white 36 pin plug (4H), pin 24
Right Rear Door Trigger	Lavender/Violet	-	Dash Fuse Box, rear, white 56 pin plug (4A), pin 31
Dome Light	Lavender/Blue	-	Dash Fuse Box, rear, white 32 pin plug (4D), pin 29
Trunk/Hatch Pin	Black	-	Dash Fuse Box, white 36 pin plug (4H), pin 34
Hood Pin	Gray	-	Body ECU on dash fuse box, black 30 pin plug, pin 30
Power Liftgate	Green	-	Power Liftgate Switch, black 6 pin plug, pin 5
Power Liftgate 2	Green (alternate location)	-	Body ECU on dash fuse box, black 21 pin plug, pin 4
Trunk/Hatch Release	Black (rear handle switch)	-	Driver Running Board, harness to under driver seat
Trunk-Hatch Release2	Black (alternate location)	-	Certification ECU behind glove box, middle white 27 pin plug, pin 26
Trunk Release Motor	Lavender/Black (w/o power liftgate)	Reverse	Dash Fuse Box, white 36 pin plug (4H), pin 20
Fuel Door Release	Lavender/Blue	-	Fuel Lid Opener Switch, blue 6 pin plug, pin 5
Tachometer	(program engine checking off)		
Tachometer 2	Black (if needed)	AC	Camshaft Position Sensor, engine top driver side, black 3 pin plug, pin 1
Fuel Pump	Black	+	Near Driver Firewall Grommet, white 18 pin plug (AN1), pin 1
Rear Defroster	White	Reverse	Near Driver Firewall Grommet, blue 18 pin plug (AN3), pin 12
Mirror Defroster	Lt. Green	Reverse	Left of Dash Fuse Box, gray 18 pin plug (AG2), pin 2

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Item	Wire Color	Polarity	Wire Location
Wiper Deicer	Lt. Blue	- Latched	Left of Dash Fuse Box, gray 12 pin plug (AG7), pin 6
Left Front Heated Seat	Blue (w/o climate control)	Reverse	Left Seat Heater Switch, gray 6 pin plug, pin 4
Right Front Heated Seat	Red (w/o climate control)	Reverse	Right Seat Heater Switch, white 6 pin plug, pin 4
Left Front Heated Seat 2	Tan (with climate control)	MUX	Driver Kick, white 18 pin plug (GN3), pin 4
Right Front Heated Seat 2	Lt. Green (with climate control)	MUX	Passenger Kick, white 18 pin plug (GM3), pin 13
Heated Steering Wheel	Black	+ Latched	Steering Heater Switch, blue 6 pin plug, pin 2
Speed Sense	Lt. Green	AC	Radio, gray 28 pin plug, pin 27
Brake Wire	Lavender/White	+	Brake Switch, white 7 pin plug, pin 3
Parking Brake	Pink (electric parking brake)	-	Left of Dash Fuse Box, gray 12 pin plug (AG7), pin 7
Horn Trigger	Blue	-	Left of Dash Fuse Box, gray 18 pin plug (AG2), pin 17
Horn Trigger 2	White (alternate location)	-	Dash Fuse Box, white 32 pin plug (4F), pin 27
Horn - Factory Alarm	Blue	-	Dash Fuse Box, rear, white 56 pin plug (4A), pin 20
Wipers	Green (LO); Red (HI)	-	Headlight Switch, white 40 pin plug, pin 26 (LO); pin 27 (HI)
Wipers Protection	Black (ground)	Cut	Headlight Switch, white 40 pin plug, pin 33
All Windows Up-Down	(use factory alarm arm/disarm)		
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	Gray	-	Body ECU on dash fuse box, black 27 pin plug, pin 10
Memory Seat 2	Red	-	Body ECU on dash fuse box, black 27 pin plug, pin 9
Radio 12V	Lt. Green or Tan	+	Radio, gray 28 pin plug, pin 4
Radio Ground	White/Black	-	Radio, gray 28 pin plug, pin 1

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Item	Wire Color	Polarity	Wire Location
Radio Ignition	Gray	+	Radio, gray 28 pin plug, pin 15
Radio Illumination	Green (parking lights); Tan (dimmer)	+,-	Radio, white 30 pin plug, pin 15 (parking lights); pin 16 (dimmer)
Left Front Speaker (+/-)	Lavender/Black - Lavender/Red --or-- Black - Green	+,-	Radio, black 10 pin plug, pins 2 - 7
Right Front Speaker (+/-)	Lavender/Lt. Green - Lavender/Blue --or-- White - Red	+,-	Radio, black 10 pin plug, pins 1 - 6
Left Rear Speaker (+/-)	Lavender/Green - Lavender/Gray --or-- Yellow - Brown	+,-	Radio, black 10 pin plug, pins 3 - 8
Right Rear Speaker (+/-)	Lavender/Red - Lavender/Green	+,-	Radio, black 10 pin plug, pins 4 - 9
Left Front Speaker - With Amp	Lavender/White - Lavender/Lt. Green	+,-	Amplifier in right rear quarter panel, white 30 pin plug, pins 14 - 29
Right Front Speaker - With Amp	Lavender/Gray - Lavender/Blue	+,-	Amplifier in right rear quarter panel, white 30 pin plug, pins 9 - 24
Left Front Tweeter - With Amp	Lavender/Black - Lavender/Lt. Green	+,-	Amplifier in right rear quarter panel, white 30 pin plug, pins 10 - 25
Right Front Tweeter - With Amp	Lavender/Tan - Lavender/Gray	+,-	Amplifier in right rear quarter panel, white 30 pin plug, pins 13 - 28
Left Rear Speaker - With Amp	Lavender/Green - Lavender/Lt. Green	+,-	Amplifier in right rear quarter panel, white 30 pin plug, pins 11 - 26
Right Rear Speaker - With Amp	Lavender/Red - Lavender/Lt. Green	+,-	Amplifier in right rear quarter panel, white 30 pin plug, pins 12 - 27
Subwoofer - With Amp	Lavender/Yellow - Lavender/Blue (coil 1); Lavender/Red - Lavender/Blue (coil 2)	+,-	Amplifier in right rear quarter panel, white 30 pin plug, pins 8 - 23 (coil 1); pins 15 - 30 (coil 2)
Aux. Audio Input Left (+/-)	Black - Red	+,-	Radio, gray 28 pin plug, pins 11 - 13
Aux. Audio Input Right (+/-)	White - Red	+,-	Radio, gray 28 pin plug, pins 12 - 13
Rearview Camera Video	Black - White (rear); Violet - Lt. Blue (panoramic)	+,-	Radio, white 30 pin plug, pins 28 - 29



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What Fits

Item	Size	Depth	Location
Headunit	Irregular		Center of Dash
Left Front Speaker	6.3 or 6.69		Left Front Door
Left Front Tweeter	1 or 3.15 (dash); 1 (pillar)		Left Front Dash; Left Front Pillar
Right Front Speaker	6.3 or 6.69		Right Front Door
Right Front Tweeter	1 or 3.15 (dash); 1 (pillar)		Right Front Dash; Right Front Pillar
Left Rear Speaker	6.3 or 5.91		Left Rear Door
Right Rear Speaker	6.3 or 5.91		Right Rear Door
Subwoofer	8.82		Left Rear Quarter Panel