

DirectWire

2024 Toyota RAV4 (Smart Key) - North America - Requested by ampire.de

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	White (50A)	+	Dash Fuse Box, white 1 pin plug (4L), pin 1
Second 12 Volts	Pink (7.5A)	+	Certification ECU behind glove box, top white 27 pin plug, pin 4
Ground 2	White/Black	-	Certification ECU behind glove box, top white 27 pin plug, pin 18
Starter	Yellow	+	Junction Connector above driver kick, towards firewall, black 22 pin plug, pin 9
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
Ignition Interrupt	Blue	Cut	Certification ECU behind glove box, top white 27 pin plug, pin 17
Ignition Interrupt 2	Blue (alternate location)	Cut	Dash Fuse Box, rear, white 56 pin plug (4A), pin 17
Telematics Interrupt	Black (w/o Stop-Start System)	Cut	Dash Fuse Box, rear, white 56 pin plug (4A), pin 33
Telematics Interrupt 2	Brown (with Stop-Start System)	Cut	Junction Connector high above driver kick, blue 22 pin plug (G100), pin 20
PTS 1	Gray	-	Push Start Switch, black 10 pin plug, pin 5
PTS 2	Blue	-	Push Start Switch, black 10 pin plug, pin 1

Item	Wire Color	Polarity	Wire Location
PTS 3	Gray (PTS 1 alternate)	-	Certification ECU behind glove box, top white 27 pin plug, pin 23
PTS 4	Blue (PTS 2 alternate)	-	Certification ECU behind glove box, top white 27 pin plug, pin 21
Keysense	Red	-	Certification ECU behind glove box, white 21 pin plug, pin 15
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
CAN Bus High 3	Green	Data	Certification ECU behind glove box, top white 27 pin plug, pin 1
CAN Bus Low 3	White	Data	Certification ECU behind glove box, top white 27 pin plug, pin 2
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
IMMO Data	Pink (IMO)	Data	Left of Dash Fuse Box, white 20 pin plug (AG4), pin 15
IMMO Data 2	Red (IMI)	Data	Left of Dash Fuse Box, white 20 pin plug (AG4), pin 13
Driver LF Antenna	Red	RF	Driver Kick, black 20 pin plug (JN1), pin 17
Driver LF Antenna 2	Red	RF	Certification ECU behind glove box, middle white 27 pin plug, pin 17

Item	Wire Color	Polarity	Wire Location
Passenger LF Antenna	Lt. Green	RF	Passenger Kick, black 20 pin plug (IM1), pin 3
Passenger LF Antenna 2	Red	RF	Certification ECU behind glove box, middle white 27 pin plug, pin 15
Rear LF Antenna	Red	RF	Passenger Kick, harness to rear
Rear LF Antenna 2	Red	RF	Certification ECU behind glove box, middle white 27 pin plug, pin 13
Rear Handle Switch	Black	-	Passenger Kick, harness to rear
Rear Handle Switch 2	Black	-	Certification ECU behind glove box, middle white 27 pin plug, pin 26
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 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

Item	Wire Color	Polarity	Wire Location
Parking Lights	Lavender/Red	+	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
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

Item	Wire Color	Polarity	Wire Location
Hood Pin	Gray	- N.C.	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	Black	AC	Certification ECU behind glove box, white 21 pin plug, pin 16
Tachometer 2	Black	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
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

Item	Wire Color	Polarity	Wire Location
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
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
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)

Item	Wire Color	Polarity	Wire Location
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

Item	Wire Color	Polarity	Wire Location
Rearview Camera Video	Black - White (rear); Violet - Lt. Blue (panoramic)	+,-	Radio, white 30 pin plug, pins 28 - 29