# 2019-2025 Toyota RAV4 - Fuel Pump Replacement



**2019-2025 Toyota RAV4 | Expert | 4-8 hours | $270 DIY**

**TOOLS**

Floor jack, jack stands, wheel chocks, and a rated transmission jack/support if tank removal is required  Fuel-line disconnect tools and vehicle-approved retaining-ring tool  Metric/SAE socket set, ratchet, extensions, and torque wrench  Approved fuel container, absorbent pads, flashlight, and non-sparking hand tools where specified  Safety glasses, fuel-resistant gloves, and a fire extinguisher rated for flammable liquids

**PARTS**

Vehicle-specific in-tank fuel pump/filter module or serviceable filter for 2019-2025 Toyota RAV4; verify VIN, engine, drivetrain, and fuel type $210.00

New fuel-module seal/O-ring and lock ring or retaining hardware for 2019-2025 Toyota RAV4; replace rather than reuse damaged seals $35.00

Fuel-safe absorbent pads, approved container, and replacement fuel-line clips as required $25.00

## STEPS

1. **Verify the part and make the vehicle safe - Park outdoors on level ground, set the** parking brake, let the engine cool, check the VIN/engine-specific procedure, and compare the replacement pump module with the original before opening the fuel system.
2. **Relieve fuel pressure and disconnect power - Follow the service procedure to disable the** pump or remove the fuel-pump fuse/relay, run the engine only as directed until pressure is relieved, then switch off the ignition and disconnect the negative battery cable when specified. Wrap co...
3. **Expose the fuel module safely - Lower and support the fuel tank with a rated jack,** disconnect the filler/vent hoses, electrical connectors, fuel lines, and straps, then remove the tank without stretching lines.
4. **Remove the old pump module - Mark connector and line positions, release each lock without** prying on plastic, and remove the retaining ring with the vehicle-approved method. Lift the pump module straight out while controlling residual fuel and protecting the sender and...
5. **Install the replacement pump module - Compare the old and new parts, install the new** seal/O-ring and any supplied filter, strainer, clips, or lock ring in the exact orientation, and seat the module without pinching the seal. Use only the specified lubricant and torque/retainer...
6. **Reconnect and prime the fuel system - Reconnect every fuel, vapor, and electrical** connection, reinstall the service cover or raise the tank and tighten straps/hoses to the exact procedure, then reconnect the battery. Cycle the ignition as directed several times without crankin...
7. **Inspect for leaks and verify operation - Before starting, inspect the module, lines,** tank, and ground for wet fuel or vapor. Start the 2019-2025 Toyota RAV4, let it idle while checking for leaks and abnormal pump noise, scan for faults if appropriate, and do not drive if fuel odo...

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