2013-2016 Scion FR-S | Easy | 20-30 minutes | $140 DIY

TOOLS

10mm socket and ratchet 10mm wrench battery terminal brush or wire brush nitrile gloves safety glasses battery terminal grease (optional) memory saver (optional)

PARTS

Correct group-size battery $140.00
Terminal cleaner $8.00
Terminal protectant $7.00

STEPS

1. **Look on the passenger side of the engine bay - Park on flat ground, shut the engine off,** pull the key, and set the parking brake. Put on safety glasses and nitrile gloves, and have a 10mm socket and ratchet ready - that covers the terminals and the tie-down.
2. **Disconnect the negative terminal first - Find the black negative cable marked with a** minus on the post. Loosen its 10mm clamp nut, twist the clamp, and lift it off. Tuck the cable down and away from the battery. Negative comes off first and goes on last - on this tight engine b...
3. **Disconnect the positive side carefully - Then loosen the 10mm clamp nut and lift the** whole assembly off the post. Lay it aside where nothing metal can bridge it back to the battery or the body - those extra wires make an accidental reconnection more likely, not less.
4. **Take off the tie-down bar - Keep the nuts and the bar together in a tray or pocket -** replacements are a special trip you don't want. If a nut is corroded to its stud, a drop of penetrating oil and patience beats snapping the stud off the tray.
5. **Lift the old battery out - Grip the battery with both hands and lift it straight up out** of the tray, keeping it level so no acid escapes the vent caps. Brush corrosion off the tray and both cable clamps and dry everything before the new battery goes in.
6. **Fit the new battery and reconnect in order - Lower the new battery into the tray with the** posts in the same orientation as the old one, refit the tie-down bar, and snug its two nuts so the battery is immobile. Tighten the 10mm clamps until the cables cannot be twisted by hand.
7. **Start it and let everything settle - Start the FR-S and let it idle a few minutes, then** check the lights, blower, and windows. Give the battery a shake test; any movement means the tie-down isn't tight enough.

TORQUE

Battery hold-down 11 Nm 8 ft-lbs

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