REMOTE FIELD SYSTEMS

Pump Controller Installation Guide

For Honda GX200–GX390 electric-start engines · about 30 minutes · no cutting or soldering

RFS Controller V1.3
Guide rev A · Nov 2026

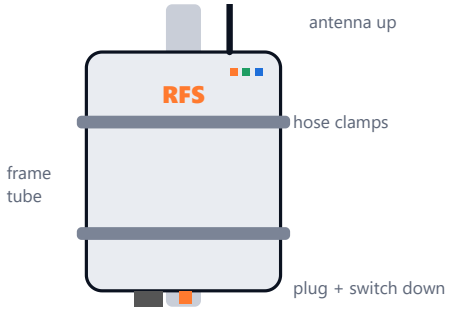
In the box

- ✓ RFS controller with antenna
- ✓ Mount plate + 4 rubber mounts
- ✓ 2 stainless hose clamps
- ✓ RFS loom (battery + engine branches)
- ✓ 3 A and 10 A fuses (fitted)
- ✓ Cable ties

You'll need a 10 mm and a 13 mm spanner, and your phone with the **RFS Pumps** app.

1 Mount the controller

- Fix it to the **pump frame**, not the engine block, and keep it at least **30 cm from the muffler**.
- Mount it upright with the **plug and switch facing down**, so rain runs off.
- Thread the two hose clamps through the plate slots and around a frame tube (20–60 mm). On a flat bracket, use M6 bolts through the plate holes instead.
- Leave the antenna pointing **up**, ideally with open sky above it.



2 Connect the engine branch first

Each lead is labelled. The three **T-adapters** plug in between the key switch and the engine: unplug one bullet joint, then plug the adapter into both halves. Nothing is cut, and the key keeps working.

LABEL	CONNECTS TO
START	T-adapter in the wire from the key switch's START terminal to the **starter solenoid**.
KILL	T-adapter in the **ignition stop (kill) wire** from the key switch to the engine.
EARTH	Ring terminal under a clean, bare-metal **engine bolt**.
SENSE	T-adapter in the engine's **Oil Alert** wire (from the oil level switch). It tells the controller the engine is running.
FUEL	Fuel solenoid (−) **only if your engine has one**. Otherwise leave it capped.

3 Connect the battery last

1. Open both fuse holders and take the fuses out.
2. **BATT −** (black ring) → battery **negative (−)**.
3. **BATT +** and **START FEED** (red rings) → battery **positive (+)**.
4. Refit the fuses: **3 A** in BATT +, **10 A** in START FEED. Close the caps.
5. Tidy both branches with cable ties, away from hot or moving parts.

Use the right fuses. Only replace them with the same rating: 3 A for the controller, 10 A for the starter feed. A bigger fuse won't protect the wiring.

4 Plug in and switch on

- Push the loom's grey plug into the controller's lead until it **clicks**.
- Set the switch under the controller to **AUTO**.
- Turn the Honda key to **ON** and leave it there.
- The **PWR** light comes on. **NET** flashes while the controller connects.

5 Add it to the RFS Pumps app

1. Open **RFS Pumps** and sign in.
2. Tap **Add pump** and scan the QR label on the controller's lid.
3. Choose the pump's Wi-Fi network if there is one. The app joins the controller's own setup network to do this.
4. No Wi-Fi out there? Turn on **Mobile data** in the app instead.

Tip: keep the label. The code on it proves you own the controller. If you sell the pump, remove it from your account in the app so the new owner can add it.

6 AUTO or MANUAL

AUTO — App in control

- Leave the key on **ON**.
- Start and stop the pump from the app.
- If the controller loses power or is unplugged, the **engine stops**. That's a safety feature.
- Turning the key OFF also stops the engine.

MAN — Key in control

- Use the Honda key exactly as normal.
- The app shows **Manual mode** and remote start is off.
- The controller stays online and keeps reporting the battery.
- You'll get a daily reminder while it stays in Manual.

The lights

LIGHT	MEANING
PWR	On: the controller has power.
NET	Flashing: connecting to mobile data. Off: on Wi-Fi, or the modem is off.
STAT	On: the controller is running.

Battery and alerts

The app shows the battery voltage, and **Charging** while the engine, a charger or a solar panel is topping it up. You'll get an alert if the engine **stops unexpectedly** or **doesn't start**, if the battery gets **low**, or if the pump is switched to **Manual**. Turn alerts on or off under Account → Pump alerts.

Safety. Before working on the pump or engine, switch the controller to **MAN** or unplug the grey plug, so nobody can start it remotely. Keep hands, clothing and leads clear of belts, the starter and the muffler.

Need help? sales@remotefieldsystems.com · remotefieldsystems.com
Have your controller's serial number ready (on the lid label).