F2 Remote Fob for Ferrari 360

No Programming Needed!

Built in PIN code recovery!

User's Guide

Designed and Engineered by PCAR Products

Congratulations on your new *F*2. In a few minutes you will be creating a working backup fob without going through the in-car programming process and without needing a PIN code. All you need is the *F*2 and any fob currently paired to the car (the "donor"). The donor can be a slave or master.

Before getting started, take a minute to confirm that your donor fob locks and unlocks the car and that it is the same frequency as your *F*2. All US and Canadian - market cars use 315MHz fobs. Euro models usually operate at 433MHz . If you are unsure what frequency system you have, see FAQs or contact us for assistance.

☛ Open the fob and note the serial number on the back of the circuit board. This number will be useful for ordering a replacement if your *F*2 is ever lost or damaged.

CREATING YOUR *F*2 BACKUP FOB

Creating your backup is super easy:

- **Move out of range of the car[1]**
- Hold the donor in one hand and the *F*2 in the other.
- Press and hold both buttons down.
- Release both buttons when the *F*2's LED starts flashing[2].

👍   Your *F*2 is ready to use!

Ferrari Master   *F2*

[1] If you create your backup close to the car you will set off the panic alarm. This is normal behavior when a fob is pressed for more than 3 seconds. If you trigger the alarm, reset it by pressing the fob for an additional 3 seconds.

[2] Some aftermarket fobs (including the *F2*) turn off before the 10 second procedure completes. If you are creating a backup of one of these fobs, follow the above procedure except don't press the donor until the *F2* has been on for at least 5 seconds.

Bonus Feature: PIN Code Retrieval

If you use a Master fob as the donor the *F2* will recognize it and automatically decode and flash the master's PIN on its LED. Here's how it works:

- Use the *F2* to back up your master fob in the normal manner.
- Wait for the flashing to stop at the end of the procedure.
- Release the fob button.
- Count the number of LED flashes in each of the 4 groups that follow. (10 flashes means the digit is 0.)
- Write the number down. This is your pin.
- If you miss a count, repeat the backup procedure.

After retrieving the pin you can keep the *F2* as a backup of your master, backup another fob, or retrieve the pin from another master.

USING YOUR *F2*

Once created, you can use either the *F2* or the donor, but you must "select" the one you want to use before using it. To select a fob **press it 4 times near the car within 10 seconds**. The car will start responding to it and stop responding to the other one. To switch back, **press the other one 4 times near the car within 10 seconds.**

Think of the *F2* and donor as a fob "tag team" – one is active, the other is on standby. Practice switching:

- Verify that the donor fob locks and unlocks the car.
- Press the button on the *F2* 4 times near the car.
- Verify that the *F2* locks and unlocks the car.
- Press the donor fob 4 times near the car.
- Verify the donor locks and unlocks the car.

☞
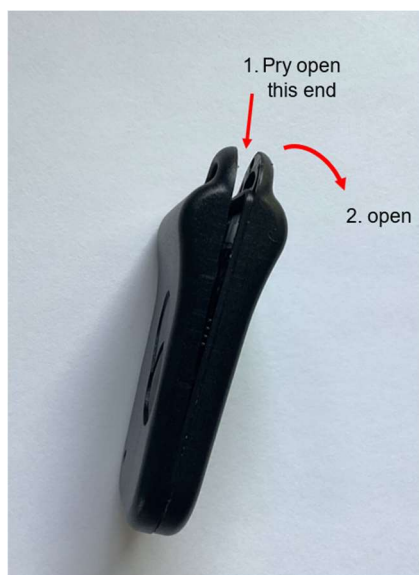| REMEMBER |
| --- |
| The 4-press procedure is only needed to **_SWITCH_** fobs. Once you switch, the fob will lock and unlock the car with a single press until you switch to the other one. |

INSTALLATION

Your *F*2 comes in a mini fob case that is identical to the OEM case. If you prefer your OEM case, simply install the *F*2 circuit board in it:

BATTERY SERVICING

The *F2* is powered by a CR1632 lithium coin cell. Good quality cells will typically have a 10-yr shelf-life and a capacity for over 30,000 operations. Replace only with name-brand cells such as Panasonic, Toshiba, Murata, Energizer, etc. (Lesser-known brands vary significantly in quality and capacity).

To replace the battery, remove the Phillips screw on the back, and use a fingernail to carefully pry the case open at the key ring end:
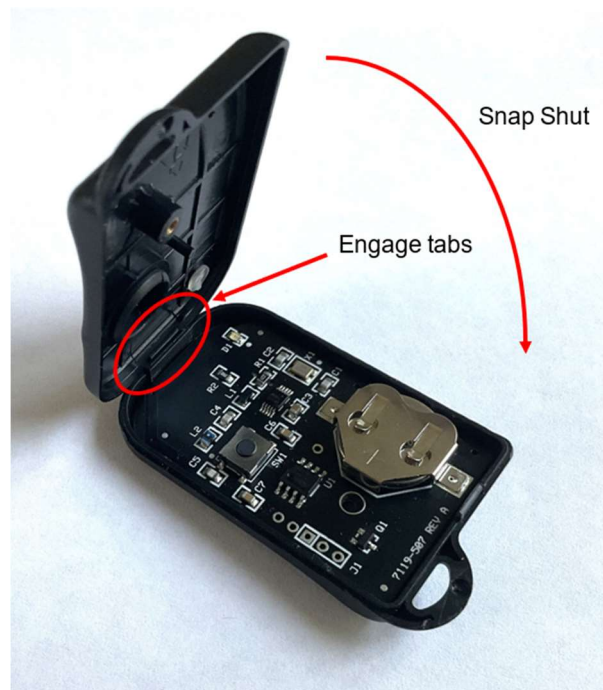
Remove the board from the case and push the battery out. This is a good time to inspect the battery contacts and clean if necessary.   Install the new battery **+ side UP.**
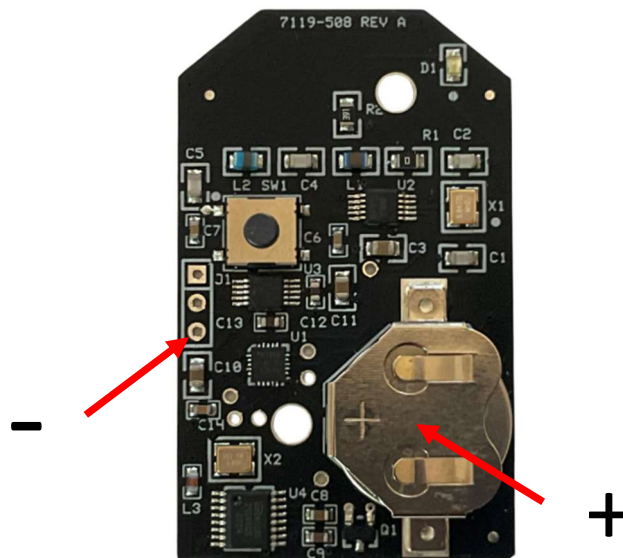
👉

CAUTION
Installing the battery upside down can short it out and reduce capacity. Although the battery may still work, it is recommended to replace a reversed battery to ensure maximum life.

Before closing the case, make sure the LED illuminates when you press the button, then close the case by engaging the tabs, and snap shut. Re-install the screw.

If the LED does not illuminate, check that the battery is good and is installed "+" side up. Note: the fob will work down to 1.8 volts but should be replaced when it gets to 2.0 v. To measure the voltage, probe the key fob as illustrated below. <u>Make the measurement while holding the button down</u>.

FOB Range

A common question is, "How far away will my *F2* work?" This is difficult to answer because range depends on many factors: the fob, the immobilizer, how the fob is held, orientation to the vehicle, battery condition, surrounding environment, etc.

A better question is: "How does the *F*2 compare to my current fob?" Based on user feedback, the *F2* consistently outperforms OEM fobs in range—and up to four times the distance of a popular aftermarket alternative. We'd love to hear how yours performs.

TROUBLESHOOTING

Q: When I tried to make my *F2* backup, the *F*2 LED stayed on and never flashed.

A: Reasons:

1. The donor may not be transmitting or is transmitting a weak signal. Make sure the donor fob locks and unlocks the car. If the car doesn't respond to the donor, the *F2* won't either. Check the donor battery and contacts.
2. The donor may be transmitting at a different frequency than the *F*2. Make sure the donor fob frequency matches the frequency of your *F*2 (see FAQs).
3. The donor could be an aftermarket fob that turns off before the backup can be completed. Follow the normal procedure but delay pressing the donor for at least 5 seconds after pressing the *F*2.

Q: When I made my *F2* backup, why did the car alarm go off?

A: This is the factory "Panic Function". It's triggered whenever a fob is pressed for more than 3 seconds to indicate the owner is in danger.   To prevent this, make your backup away from the car. If the alarm does go off, reset it by pressing the donor fob for another 3 seconds.

Q: The backup procedure completed ok, but the *F2* doesn't lock or unlock the car.

A: Reasons:

1. The *F2* has not been "selected" as the active fob. **Press it 4 times near the car within 10 seconds and try again**. Make sure each press is at least 1 second long, and that all 4 presses complete within 10 seconds.
2. The donor that the *F2* was created from is not paired to the car. Retry with a fob that is paired to the car.
3. The *F2* battery is weak (see BATTERY SERVICING)

FAQs

Q: Which Ferraris is the *F2* compatible with?

A: The *F2* is backwards compatible with Ferrari 355, 360, 456, 550 and 575 models.

Q: Does the donor have to be a Ferrari OEM fob?

A: No. Any Ferrari-compatible fob for the above models operating at the same frequency as the *F2* can be a donor, <u>but it must currently be paired to the immobilizer.</u>

Q: Can the *F2* back up master and slave fobs?

A: Yes. .

Q: After I create my *F2* backup, can I change my mind and backup a different fob?

A: Yes. You can back up as many fobs as you like, even fobs paired to another car. Keep in mind that each time you create a backup, the *F2* forgets the previous donor.

Q: If I have multiple fobs already paired to the car, will the "non-donor" fobs be affected by the *F2*?

A: No. Any other non-donor fobs paired to the car won't be affected by the *F*2 and will continue to function like they did before the *F*2 was added.

Q: Can I use the *F*2 to replace a fob that I take out of service?

A: Yes. Backup the fob you want to replace, then select the *F*2 using the 4-press procedure. If you take the donor out of service, the 4-press procedure will never be needed again.

Q: I currently have more than one fob paired to the car. Can I create an *F*2 backup for each one?

A: Yes. This means as many as 6 fobs can be paired to the car (3 donors, 3 *F*2's).

Q: If the fob I am using as my primary (donor or *F*2) is lost or stops working, will the other one still work?

A: Yes. Just switch to the other fob by pressing it 4 times near the car.

Q: Can an *F*2 back up another *F*2?

A: Yes, with some caveats. If the *F*2 you want to use as a donor for another *F*2 previously backed up another of your fobs, you will need to take the original donor out of service. Once you do that, your first *F*2 will be like any other fob and can be used as a donor, but instead of holding both buttons down for the 10 seconds from start to finish, you will need to press and hold the new *F*2 for at least 5 seconds BEFORE pressing the donor *F*2. See next FAQ for a better way to add multiple *F*2's.

Q: Can I make more than one backup *F*2 from a single donor?

A: If you would like to do this, let us know at time of purchase and we can provide you with a special set of two *F*2's that can back up a single donor.

Q: How can I tell what frequency fob I need?

A: Check the label on the back of your fob. If it says "RK116" or "RKY116" you have a 315MHz system. If it says "RK114" or "RKY114" you have a 433MHz system. Some fobs don't have a label.   If that's the case, open the fob and look at the label on the small metal can.   On 315MHz fobs it will normally be labeled "R2622". The can on 433MHz fobs will normally be labeled "R2632".   If you have any questions, let us know.

315 MHz fobs: usually labeled **"R2622"**

433 MHz fobs: usually labeled **"R2632"**

Determining fob frequency

Comments? Questions? Drop us a line: support@EZIMMOBLOCK.com. Or call: 860-271-1826