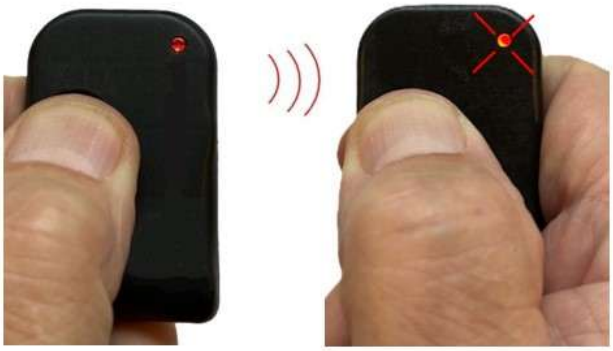

*F*2 Smart Fob

All New Design for Ferrari 355,360,456,550 and 575

No Programming Required

User's Guide

Designed and Engineered by PCAR Products

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Congratulations on your new *F*2! In a few minutes you will be creating a backup fob without programming or PIN code. All you need is the *F*2 and any fob currently paired to your car (the "donor").

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. If you are not sure what your donor frequency is, check the back of the case. OEM fobs marked "RKY116", are 315MHz. Fobs marked "RKY114" are 433MHz. If you are unsure what frequency system you have, see FAQs or contact us for assistance.

CREATING YOUR *F*2 BACKUP

Creating your backup is super easy:

- **Move out of range of the car**[1]
- Hold the master or slave donor in one hand and the *F*2 in the other.
- Press and hold both buttons down **continuously for 10 seconds.**
- Release both buttons when the *F*2's LED starts flashing[2].

Your *F*2 is ready to use!

[1] If you create your backup close to the car you will trigger the panic alarm. This is normal behavior when a fob transmits for more than 3 seconds. If this happens, simply reset it by pressing the donor for 3 seconds.

[2] Some aftermarket fobs (including the *F*2) stop transmitting before the 10 second procedure completes. If you are creating a backup from one of these fobs, follow the same procedure but delay pressing the donor until the *F*2 has been pressed for at least 5 seconds.

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USING YOUR *F*2

Once created, you can use either the *F*2 or the donor by first "selecting " the one you want to use. To select a fob, press it 4 times near the car. **Each press should be at least ½ second long and all 4 must complete 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.

Think of the *F*2 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 *F*2 4 times near the car.
- Verify that the *F*2 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 selected 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 mechanically identical to the OEM case. If you prefer your OEM case, simply install the *F*2 circuit board in it:

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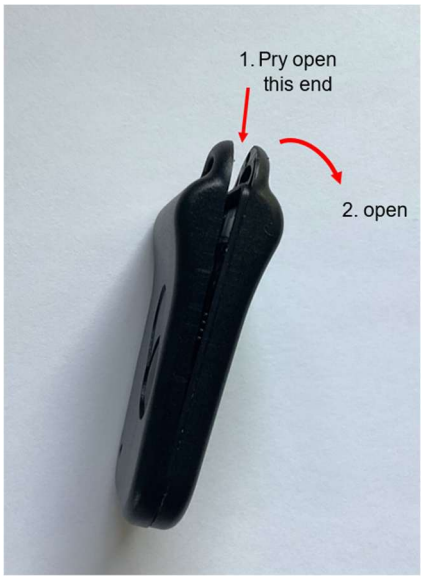
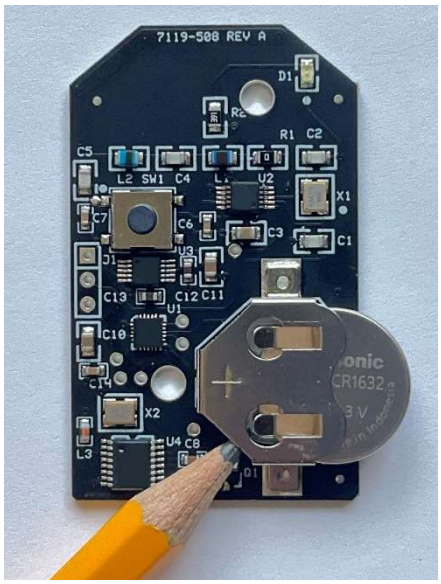
BATTERY SERVICING

The *F2* is powered by a supplied CR1632 lithium coin cell. Good quality cells typically have a 10-yr shelf-life and 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 **<u>+ side UP</u>.**

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.

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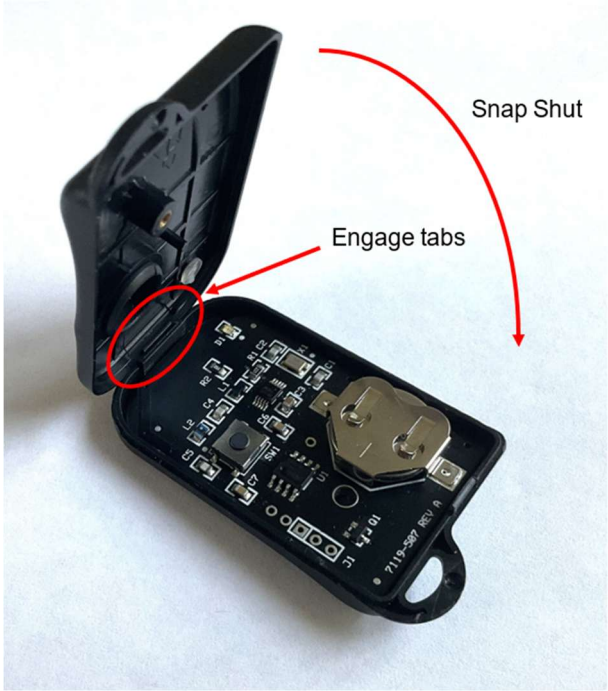
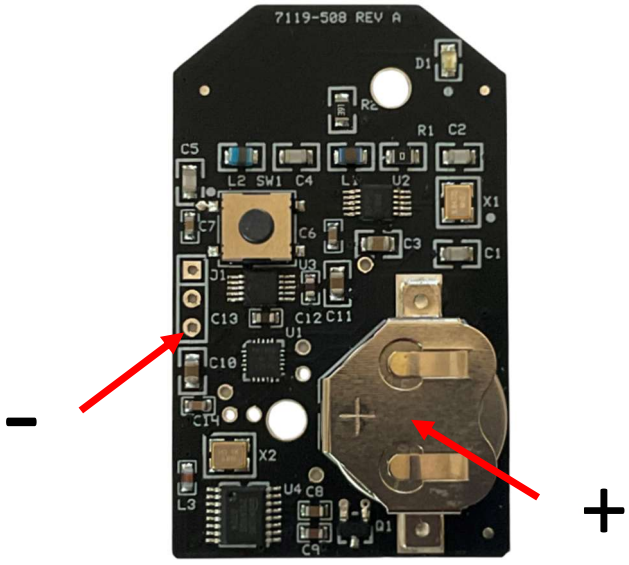


If the LED does not illuminate, check that the battery is good and is installed "+" side up. The battery must be greater than 2.0 v. **<u>To get a valid reading you must measure it while the button is held down</u>.** Note: when the battery reaches end-of-life, the *F*2 will automatically stop transmitting and the LED will not illuminate.



FOB Range

Users often ask, "How far away will my *F*2 work?" The honest answer is that range depends on a number of factors, including the fob itself, the immobilizer, battery condition, how the fob is held, vehicle orientation - even the surrounding environment.

A more useful metric is, "How does the *F*2 compare to my current fob?" Based on feedback from owners, the *F*2 consistently delivers better range than OEM fobs and, in some cases, up to four times the range of certain aftermarket alternatives.

We'd love to hear about your experience.

TROUBLESHOOTING

Q: When I tried to make my *F*2 backup, the *F*2's 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 *F*2 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 may be an aftermarket fob that turns off before the backup can complete. Follow the normal procedure but delay pressing the donor for at least 5 seconds after pressing the *F*2.
4. The *F*2's button was released before the backup completed. Make sure the *F*2's button is held down <u>continuously</u> - even a momentary release will restart the process.

Q: When I made my *F*2 backup, why did the car alarm go off?

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

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Q: The backup procedure completed ok, but the *F*2 doesn't lock or unlock the car.

A: Reasons:

1. The *F*2 has not been "selected" as the active fob. Immediately after the backup completes the immobilizer will still be listening to the donor. To test the *F*2, **Press it 4 times near the car for at least ½ second and make sure you complete all 4 within 10 seconds**. .
2. The donor that the *F*2 was created from is not paired to the car. Retry with a fob that is paired to the car.
3. The *F*2 battery is weak (see BATTERY SERVICING)
4. Your donor is 315MHz but your *F*2 is a 433Hz – in this situation, the backup will complete but the *F*2 will transmit at a different frequency than the immobilizer expects. Replace with a 315MHz *F*2.

FAQs

Q: Which Ferraris is the *F*2 compatible with?

A: The *F*2 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 models listed above can serve as a donor, as long as it operates on the same frequency as the *F*2 and is currently paired to the immobilizer.

Q: Can the *F*2 back up master and slave fobs?

A: Yes.

Q: After I create my *F*2 backup, can I change my mind and backup a different fob?

A: Yes. You can back up as many fobs as you like. However, each backup will overwrite the previous backup.

Q: What if I don't have a fob that is paired to the car to use as a donor?

A: The *F*2 can always be paired to the car using the factory in-car programming procedure.

Q: If I have multiple fobs already paired to the car, will the "non-donor" fobs be affected by the *F*2?

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A: No. Any non-donor fobs paired to the vehicle are not affected by the *F*2. They will continue to function normally and can be used just as they were 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. Simply back up the fob you want to replace, then select the *F*2 using the 4-press procedure. If you retire the donor fob afterward, the 4-press procedure becomes a one-time setup and won't 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 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 a few caveats. If the *F*2 you want to use as a donor previously backed up another fob that is still in use, that fob will need to be taken out of service. Then, instead of holding both buttons down for the 10 seconds, press and hold the new *F*2 for at least 5 seconds BEFORE pressing the donor *F*2. For a simpler method of adding multiple *F*2s, see the next FAQ.

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

A: If you'd like to create multiple *F*2 backups from the same donor, just let us know when you place your order. We'll provide two *F*2s that can back up a single donor.

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

A: **Do not rely on the country you are in**, - vehicles change hands over the years and equipment gets replaced. The best way to tell what frequency you need is by checking the label on the back of your fob. If it says **RK116** or **RKY116**, you have a 315 MHz system. If it says **RK114** or **RKY114**, you have a 433 MHz system.

Some fobs do not have a label on the case, or the cases may not be original. The way to tell with certainty is to open the fob and inspect the marking on the small metal can inside as shown below. A 315 MHz fob will *typically* be marked **R2622** or **RP1239**, and a 433 MHz fob will *typically* be marked **R2632**. Occasionally there are different markings or you may have an aftermarket fob. **If unsure, contact us before ordering.**

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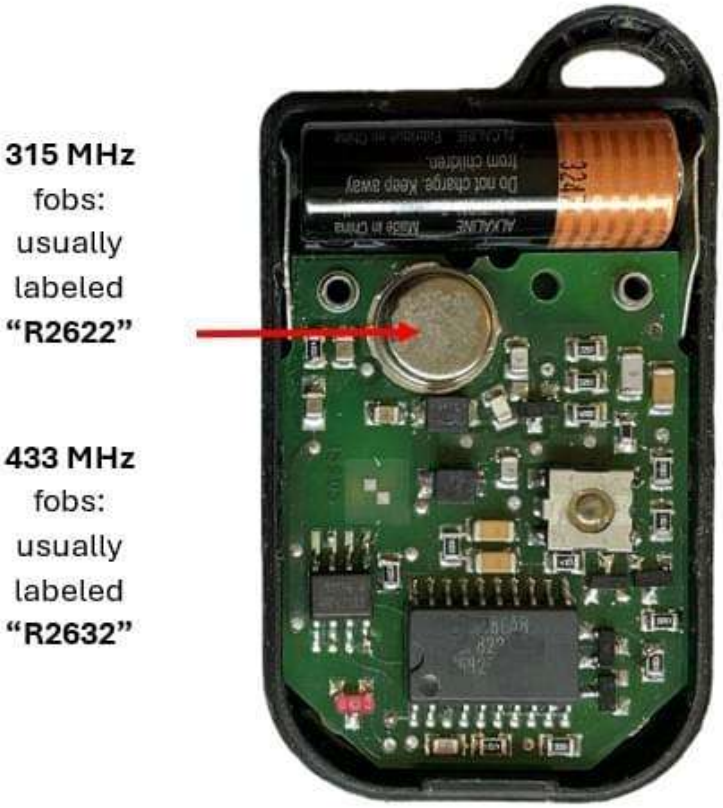

Determining fob frequency

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

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