



Congratulations on the purchase of your new 1/5th Scale RC!

Here is a YouTube video for new and experienced RC enthusiasts with everything you need to know to start the engine and learn the basics of running your new RC!

"How to Start a 2 Stroke Gas RC Car - Fearless RC"



Can't Scan the code?
Search "Fearless RC" on
YouTube to find our channel!

If the vehicle arrives with a broken part or if you have any problems using it, please contact us so we can help to correct the problem. We can send you the part(s) needed to fix it asap!

Contacts:



Email our Customer Service
sales@fearlessrc.com

* Please be patient as we respond
to a high volume of messages *

Message us on our Website!



Contact us on Facebook!

*** Every vehicle is inspected before leaving our warehouse.
The seals and inner box have been opened for inspection before shipping. ***

Checklist **Before** Running Your Vehicle

- **Always run your 1/5th scale RCs in an open area away from people and cars to prevent injury or damage.** A remote kill switch will also keep your vehicle safe in the event of a runaway situation. RV63035 or PRPRE001 are examples of ones we sell.
- Make sure all bolts are tight, including wheel nuts and exhaust bolts!
- Charge the receiver battery and check transmitter battery.
- **Turn the transmitter on first, turn the car on second** (do not start the engine yet).
- Test for full steering control and full throttle and brake control.
- Check the failsafe works (brake should be applied when the transmitter is disconnected). *Refer to radio manual for failsafe setup and setting changes like end points for servos.*
- Roll the vehicle to be sure the brakes work when applied.
- Add gas and 2 stroke oil mixed at 25:1 ratio. Check there are no fuel line leaks!
- The vehicle is now ready to start! Refer to "Engine Starting and Break In Steps".

Checklist **After** Running Your Vehicle

- Let the engine idle for 30 seconds to allow the flywheel fan to cool it down.
- Always turn the vehicle power switch off before turning the transmitter off, this will prevent any chance of a runaway or failsafe.
- **Tighten the exhaust bolts on the cylinder head**, these sometimes come loose due to vibration. A loose exhaust can lead to oil leaking onto the breaks and running the engine lean!
- Check for any other loose bolts or damage to vehicle before running it again. Engine mount and clutch mount bolts are the most common to come loose overtime. Use a small amount of loctite on these bolts when necessary.
- If the vehicle will be stored for a long period of time, drain the fuel out of the tank and carb to prevent the gas from going bad and breaking down fuel lines. Always store gas in a proper container. Also disconnect the battery to prevent draining the battery.

Engine Starting Procedure and Break In Instructions

The process of engine break-in is alternately heating and cooling the engine to allow all parts to properly seat themselves, and allows 2-stroke oil from the incoming fuel to coat the interior of the engine.

Steps to start and break in your engine:

- Use 89 octane or higher fuel, mixed 25:1 with a quality 2-stroke oil (Klotz Oil is a brand we recommend and sell at FearlessRC.com)
- **Factory carb settings:**
 - ***Refer to our YouTube video for how to properly adjust the carb***
 - (23cc-30.5cc) 1 ¼ turns out for the low and 1 ½ turns out for the high
 - 32cc (1 ¼ L, 1 7/8 H)
 - 34-36cc (1 ¼ L, 2 ¼ H)
 - 38cc (1 ¼ L, 1 ½ H)
 - 45cc (1 ½ L, 1 5/8 H)
- Prime the carb bulb until you see fuel filling the bulb.
- Set the choke, red lever on carb, to be on.
- Use a short, pull for standard pull starts and slow, steady pull for EZ pull starts and avoid overextending. You do not need to pull very fast with the choke on!
- Once the engine tries to start with the choke on, **turn the choke off** and pull the pull start until the engine idles. Some throttle is needed when the engine is cold.
 - **If the engine does not start after a lot of pulls, it may be flooded.** Remove the spark plug, clean it off, and pull the engine over a few times to let all the fuel escape out the spark plug hole. Add the spark plug back and check for spark (ground the spark plug to the cylinder head). If there is no spark, you may need a new coil or spark plug. If there is spark, the carb setting may be too rich or the carb is faulty.
 - If the engine still does not start after following these instruction, please contact us sales@fearlessrc.com
- Run the engine at varying speeds for periods of 3 to 10 minutes at a time. Never go full throttle, try to stay below half throttle. It is also okay to drive the vehicle around slowly, or let it sit on some stands for breakin.
- Use the red button on the engine to shut it off. Always let the engine idle for 30 seconds before turning it off. Allow the engine to cool down for at least 10 minutes before starting it again.
- Repeat this process 3 to 4 times for 3 to 4 full "heat cycles".
- After this the engine can be run at full throttle, always let the engine warm up before running it hard, and let the engine idle to cool down before shutting it off

