This flowchart is based on several factors:

1) The motor is set to factory specs
2) The motor is warm, including the chassis
3) All parts are in working order
4) Carb is initially set to 1mm
5) Idle increases with clockwise rotation
6) Low and high-end mix richen with counter clockwise rotation

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RC Nitro Troubleshooting
Tuning Flowchart

Start engine, let idle 1 min

- Does the engine idle for 1 min?
  - Yes: Rev the engine. Did the idle speed taper off?
    - Yes: Does engine suddenly die or lose power?
      - Yes: Adjust high-end mix clockwise 1/8 turn (lean)
      - No: Adjust high-end mix clockwise 1/8 turn (rich)
    - No: Does engine suddenly bog or die?
      - Yes: Run hot laps, check engine temp
      - No: Does engine die when brakes are applied?
        - Yes: Adjust idle clockwise 1/8 turn (increase)
        - No: Engine temp <210 degrees?
          - Yes: Run hot laps
          - No: Engine temp >230 degrees?
            - Yes: Tuning is complete
            - No: Do wheels turn when idling?
              - Yes: Adjust idle counter clockwise 1/8 turn (decrease)
              - No: Is smoke visible and blue?
                - Yes: Rev the engine. Did the idle speed taper off?
                - No: Did the engine rev up before it died?
                  - Yes: Adjust low-end mix counter clockwise 1/8 turn (rich)
                  - No: Did the engine slow down and die?
                    - Yes: Adjust low-end mix clockwise 1/8 turn (lean)
                    - No: Adjust high-end mix counter clockwise 1/8 turn (rich)

- No: Accelerate at full throttle
  - Yes: Does engine suddenly die or lose power?
    - Yes: Adjust high-end mix counter clockwise 1/8 turn (rich)
    - No: Adjust high-end mix clockwise 1/8 turn (lean)
  - No: Does engine suddenly bog or die?
    - Yes: Run hot laps, check engine temp
    - No: Does engine die when brakes are applied?
      - Yes: Adjust idle clockwise 1/8 turn (increase)
      - No: Engine temp <210 degrees?
        - Yes: Run hot laps
        - No: Engine temp >230 degrees?
          - Yes: Tuning is complete
          - No: Do wheels turn when idling?
            - Yes: Adjust idle counter clockwise 1/8 turn (decrease)
            - No: Is smoke visible and blue?
              - Yes: Rev the engine. Did the idle speed taper off?
              - No: Did the engine rev up before it died?
                - Yes: Adjust low-end mix counter clockwise 1/8 turn (rich)
                - No: Did the engine slow down and die?
                  - Yes: Adjust low-end mix clockwise 1/8 turn (lean)
                  - No: Adjust high-end mix counter clockwise 1/8 turn (rich)

Temps will vary by manufacture

Visit RCNitroTalk.com for more help