

Carburetor Adjustments & Tuning Tips (CM, IICM Type)

Standard Tuning Recommendations

For the following recommendations to be accurate, you must use the standard settings as a baseline. Also, don't change any of the settings until you've determined what changes are necessary.

| Adjustment | Standard settings |
|-----------------------|-------------------|
| Pilot screw opening | 1 5/8 turns out |
| Slow jet | #42 |
| Jet needle | NJGR |
| Needle clip position | 3rd groove |
| Main jet | #178 |
| Float level | 6.0 mm (0.24 in) |
| Identification number | FCR00G |

Adjustments for Altitude & Temperature

All jetting recommendations are based on standard jetting with an unmodified engine. The following conditions can affect the fuel mixture.

| Condition | Mixture will be: | Adjust to: |
|------------------|------------------|------------|
| cold temperature | lean | richer |
| warm temperature | rich | leaner |
| dry air | lean | richer |
| high humidity | rich | leaner |
| high altitude | rich | leaner |

All jetting is based on

- Standard jetting
- Unmodified Engine

| TEMPERATURE ALTITUDE | CENT FAHR | -30°~ -17° -21°~ 0° | -18°~ -6° -1°~ 20° | -7°~ 5° 19°~ 40° | 4°~ 16° 39°~ 60° | 15°~ 27° 59°~ 80° | 26°~ 38° 79°~ 100° | 37°~ 49° 99°~ 120° |
|---|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|---|-----------------------------------|
| 3,050 m (10,000 ft) to 2,300 m (7,500 ft) | PS: SJ: JN CLIP: JN: MJ: | 1 5/8 42 3rd NJGR 178 | 1 5/8 42 3rd NJGR 175 | 1 3/8 42 2nd NJGR 175 | 1 3/8 42 2nd NJGR 172 | 1 3/8 40 2nd NJGR 172 | 1 1/8 40 2nd NJGR 170 | 1 1/8 40 2nd NJGR 170 |
| 2,299 m (7,499 ft) to 1,500 m (5,000 ft) | PS: SJ: JN CLIP: JN: MJ: | 1 5/8 42 3rd NJGR 180 | 1 5/8 42 3rd NJGR 178 | 1 5/8 42 3rd NJGR 175 | 1 3/8 42 2nd NJGR 175 | 1 3/8 42 2nd NJGR 172 | 1 3/8 40 2nd NJGR 172 | 1 1/8 40 2nd NJGR 170 |
| 1,499 m (4,999 ft) to 750 m (2,500 ft) | PS: SJ: JN CLIP: JN: MJ: | 1 7/8 42 4th NJGR 180 | 1 5/8 42 3rd NJGR 180 | 1 5/8 42 3rd NJGR 178 | 1 5/8 42 3rd NJGR 175 | 1 3/8 42 2nd NJGR 175 | 1 3/8 42 2nd NJGR 172 | 1 3/8 40 2nd NJGR 172 |
| 749 m (2,499 ft) to 300 m (1,000 ft) | PS: SJ: JN CLIP: JN: MJ: | 1 7/8 45 4th NJGR 182 | 1 7/8 42 4th NJGR 180 | 1 5/8 42 3rd NJGR 180 | 1 5/8 42 3rd NJGR 178 | 1 5/8 42 3rd NJGR 175 | 1 3/8 42 2nd NJGR 175 | 1 3/8 42 2nd NJGR 172 |
| 299 m (999 ft) to 0 m Sea level | PS: SJ: JN CLIP: JN: MJ: | 1 7/8 45 4th NJGR 182 | 1 7/8 45 4th NJGR 182 | 1 7/8 42 4th NJGR 180 | 1 5/8 42 3rd NJGR 180 | STANDARD 1 5/8 42 3rd NJGR 178 | JETTING 1 5/8 42 3rd NJGR 175 | 1 3/8 42 2nd NJGR 175 |

Legend

- PS: Pilot Screw opening from fully seated
- SJ: Slow Jet
- JN CLIP: Needle Clip position
- JN: Jet Needle
- MJ: Main Jet