

Carburetor Adjustments & Tuning Tips (ED, DE, U 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 1/4 turns out
Slow jet	#42
Jet needle	NKAT
Needle clip position	3rd groove
Main jet	#178
Float level	6.0 mm (0.24 in)
Identification number	FCR09C

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 1/4 42 3rd NKAT 178	1 1/4 42 3rd NKAT 175	1 42 2nd NKAT 175	1 42 2nd NKAT 172	1 40 2nd NKAT 172	3/4 40 2nd NKAT 170	3/4 40 2nd NKAT 170
2,299 m (7,499 ft) to 1,500 m (5,000 ft)	PS: SJ: JN CLIP: JN: MJ:	1 1/4 42 3rd NKAT 180	1 1/4 42 3rd NKAT 178	1 1/4 42 3rd NKAT 175	1 42 2nd NKAT 175	1 42 2nd NKAT 172	1 40 2nd NKAT 172	3/4 40 2nd NKAT 170
1,499 m (4,999 ft) to 750 m (2,500 ft)	PS: SJ: JN CLIP: JN: MJ:	1 1/2 42 4th NKAT 180	1 1/4 42 3rd NKAT 180	1 1/4 42 3rd NKAT 178	1 1/4 42 3rd NKAT 175	1 42 2nd NKAT 175	1 42 2nd NKAT 172	1 40 2nd NKAT 172
749 m (2,499 ft) to 300 m (1,000 ft)	PS: SJ: JN CLIP: JN: MJ:	1 1/2 45 4th NKAT 182	1 1/2 42 4th NKAT 180	1 1/4 42 3rd NKAT 180	1 1/4 42 3rd NKAT 178	1 1/4 42 3rd NKAT 175	1 42 2nd NKAT 175	1 42 2nd NKAT 172
299 m (999 ft) to 0 m Sea level	PS: SJ: JN CLIP: JN: MJ:	1 1/2 45 4th NKAT 182	1 1/2 45 4th NKAT 182	1 1/2 42 4th NKAT 180	1 1/4 42 3rd NKAT 180	STANDARD 1 1/4 42 3rd NKAT 178	JETTING 1 1/4 42 3rd NKAT 175	1 42 2nd NKAT 175

Legend

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