

# Carburetor Adjustments & Tuning Tips (ED, U, DE 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 1/8 turns out
Slow jet	#42
Jet needle	NMTT
Needle clip position	3rd groove
Main jet	#178
Float level	6.0 mm (0.24 in)
Identification number	FCR12C

## 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	Component affected
Cold temperature	Lean	Richen	Main jet (jet needle stage)
Warm temperature	Rich	Lean	
Dry air	Lean	Richen	
High humidity	Rich	Lean	
High altitude	Rich	Lean	

All jetting is based on

- Standard jetting
- Unmodified Engine

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

### Legend

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