

# Carburetor Adjustments & Tuning Tips

## 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	2 1/8 turns out
Slow jet	#38
Jet needle	NMQT
Needle clip position	3rd groove
Main jet	#140
Float level	0.28 in (7.0 mm)
Identification number	FCR08D

## 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	FAHR.	-21°~ 0°	-1°~ 20°	19°~ 40°	39°~ 60°	59°~ 80°	79°~ 100°	99°~ 120°
Altitude	CENT.	-30°~ -17°	-18°~ -6°	-7°~ 5°	4°~ 16°	15°~ 27°	26°~ 38°	37°~ 49°
10,000 ft (3,050 m)	PS:	2 1/8	2 1/8	2 1/8	1 7/8	1 7/8	1 5/8	1 5/8
~	SJ:	38	38	38	38	38	38	38
7,500 ft (2,300 m)	JN CLIP:	3rd	3rd	3rd	3rd	3rd	2nd	2nd
	JN:	NMQT	NMQT	NMQT	NMRT	NMRT	NMQT	NMQT
	MJ:	140	138	138	138	138	135	135
7,499 ft (2,299 m)	PS:	2 1/8	2 1/8	2 1/8	2 1/8	1 7/8	1 7/8	1 5/8
~	SJ:	38	38	38	38	38	38	38
5,000 ft (1,500 m)	JN CLIP:	3rd	3rd	3rd	3rd	3rd	3rd	2nd
	JN:	NMQT	NMQT	NMQT	NMQT	NMRT	NMRT	NMQT
	MJ:	140	140	138	138	138	138	135
4,999 ft (1,499 m)	PS:	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8	1 7/8	1 7/8
~	SJ:	38	38	38	38	38	38	38
2,500 ft (750 m)	JN CLIP:	3rd	3rd	3rd	3rd	3rd	3rd	3rd
	JN:	NMQT	NMQT	NMQT	NMQT	NMQT	NMRT	NMRT
	MJ:	142	140	140	138	138	138	138
2,499 ft (749 m)	PS:	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8	1 7/8
~	SJ:	38	38	38	38	38	38	38
1,000 ft (300 m)	JN CLIP:	3rd	3rd	3rd	3rd	3rd	3rd	3rd
	JN:	NMQT	NMQT	NMQT	NMQT	NMQT	NMQT	NMRT
	MJ:	142	142	140	140	138	138	138
999 ft (299 m)	PS:	2 3/8	2 1/8	2 1/8	2 1/8	STANDARD 2 1/8	JETTING 38	2 1/8
~	SJ:	38	38	38	38			
0 m Sea level	JN CLIP:	4th	3rd	3rd	3rd	NMQT	3rd	3rd
	JN:	NMRT	NMQT	NMQT	NMQT	NMQT	NMQT	NMQT
	MJ:	142	142	142	140	140	138	138

### Legend

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