

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

Legend

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