

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: SJ: JN CLIP:	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	1 7/8 38 3rd	1 7/8 38 3rd	1 5/8 38 2nd	1 5/8 38 2nd	
~ 7,500 ft (2,300 m)	JN: MJ:	NMQT 140	NMQT 138	NMQT 138	NMRT 138	NMRT 138	NMQT 135	NMQT 135	
7,499 ft (2,299 m)	PS: SJ: JN CLIP:	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	1 7/8 38 3rd	1 7/8 38 3rd	1 5/8 38 2nd	
~ 5,000 ft (1,500 m)	JN: MJ:	NMQT 140	NMQT 140	NMQT 138	NMQT 138	NMRT 138	NMRT 138	NMQT 135	
4,999 ft (1,499 m)	PS: SJ: JN CLIP:	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	1 7/8 38 3rd	1 7/8 38 3rd	
~ 2,500 ft (750 m)	JN: MJ:	NMQT 142	NMQT 140	NMQT 140	NMQT 138	NMQT 138	NMRT 138	NMRT 138	
2,499 ft (749 m)	PS: SJ: JN CLIP:	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	1 7/8 38 3rd	
~ 1,000 ft (300 m)	JN: MJ:	NMQT 142	NMQT 142	NMQT 140	NMQT 140	NMQT 138	NMQT 138	NMRT 138	
999 ft (299 m)	PS: SJ: JN CLIP:	2 3/8 38 4th	2 1/8 38 3rd	2 1/8 38 3rd	2 1/8 38 3rd	STANDARD 2 1/8 38 3rd NMQT 140	JETTING 2 1/8 38 3rd NMQT 138	2 1/8 38 3rd	
~ 0 m Sea level	JN: MJ:	NMRT 142	NMQT 142	NMQT 142	NMQT 140			NMQT 138	NMQT 138

Legend

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