

# Carburetor Adjustments & Tuning Tips (CM 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	2 turns out
Slow jet	#38
Jet needle	NMQS
Needle clip position	3rd groove
Main jet	#138
Float level	7.0 mm (0.28 in)
Identification number	FCR08B

## 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	GENT.	-30°~ -17°	-18°~ -6°	-7°~ 5°	4°~ 16°	15°~ 27°	26°~ 38°	37°~ 49°
Altitude	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:	2 38 3rd NMQS 138	2 38 3rd NMQS 135	2 38 3rd NMQS 135	1 3/4 38 3rd NMRS 135	1 3/4 38 3rd NMRS 135	1 1/2 38 2nd NMQS 132	1 1/2 38 2nd NMQS 132
2,299 m (7,499 ft) ~ 1,500 m (5,000 ft)	PS: SJ: JN CLIP: JN: MJ:	2 38 3rd NMQS 138	2 38 3rd NMQS 138	2 38 3rd NMQS 135	2 38 3rd NMQS 135	1 3/4 38 3rd NMRS 135	1 3/4 38 3rd NMRS 135	1 1/2 38 2nd NMQS 132
1,499 m (4,999 ft) ~ 750 m (2,500 ft)	PS: SJ: JN CLIP: JN: MJ:	2 38 3rd NMQS 140	2 38 3rd NMQS 138	2 38 3rd NMQS 138	2 38 3rd NMQS 135	2 38 3rd NMQS 135	1 3/4 38 3rd NMRS 135	1 3/4 38 3rd NMRS 135
749 m (2,499 ft) ~ 300 m (1,000 ft)	PS: SJ: JN CLIP: JN: MJ:	2 38 3rd NMQS 140	2 38 3rd NMQS 140	2 38 3rd NMQS 138	2 38 3rd NMQS 138	2 38 3rd NMQS 135	2 38 3rd NMQS 135	1 3/4 38 3rd NMRS 135
299 m (999 ft) ~ 0 m Sea level	PS: SJ: JN CLIP: JN: MJ:	2 1/4 38 4th NMRS 140	2 38 3rd NMQS 140	2 38 3rd NMQS 140	2 38 3rd NMQS 138	2 38 3rd NMQS 138	2 38 3rd NMQS 135	2 38 3rd NMQS 135

### Legend

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