TIBBI CARBURETOR INSTRUCTION 📆



THANKS FOR BUYING THE NIBBI CARBURETOR. BEFORE USING THE CARBURETOR, PLEASE READ THE INSTRUCTION CAREFULLY, INSTALL AND USE THE PRODUCT CORRECTLY.

↑ NOTE

- This is high-precision processed product, if you need to work on it, please do so in a clean environment.
- If, in the course of adjusting or disassembling, the carburetor is damaged we as manufacturers do not accept responsibility.
- The carburetor function will be affected by factors such as air pressure, temperature, humidity and by height above sea level.
- This carburetor requires knowledge and understanding for its setup. If you lack either of thess do contact a professional for advice.

© EXPLANATION OF SYMBOLS:

Note Read information under this head carefully, it will help you understand the essential features.

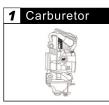
Follow procedure accurately to avoid damage of the carburetor.

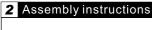
NO FIRE Make sure to stay clear of open flames so as to avoid unwanted fire.

XINSTALLATION CAUTION Make sure all screws are fightened properly before staring the engine.

READ CAREFULLY If any information dealt with in the manual remains unclear seek professional assistance

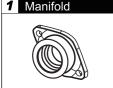
1-1 ACCESSORY







1-2 OPTION ACCESSORY







Pilot Jet

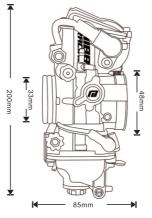


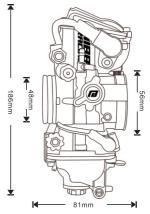






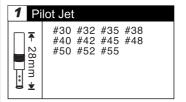
1-3 OPTION PARTS SPECIFICATION





size:33mm

size:36mm,39mm,42mm



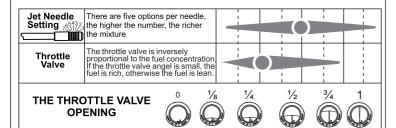


2 THE ORIGINAL SETTING

Carburetor	φ33	φ36	φ39	φ42
Stroke	4T	4T	4T	4T
Air Screw	21/2	21/2	21/2	21/2
Jet Needle	3	3	3	3
Main Jet	#150	#162	#170	#180
Pilot Jet	#48	#48	#48	#52

3-1 BASIC TUNING COMMON SENSE

Air Scre	Turning the air mixing screw clockwise results in a thinner mixture, turning it counterclockwise results in a richer mixture			
Main Jet	The bigger the mainjet, the richer the fuel.	-		
Pilot Jet	The bigger the slow jet, the richer the fuel.			



• For throttle closed to one quarter throttle opening

- O According to the air input, change slow jet to adjust mixture.
- O Running in a low speed, Set air adjustment screw to adjust mixture.

• From one quarter throttle opening to three quarter throttle opening

- O According to the air input, change needle.
- O Running in a middle speed, change needle adjust jet needle position to adjust mixture.change needle

• From three quarter throttle opening fo full throttle

- O According to the air input, change main jet to adjust mixture.
- O Running in high speed, change power to adjust mixture

• Half throttle to full throttle(high air speed in the carb)

- O Adjust mixture by changing main jet, jet needle or jet needle setting.
- O Make sure to read the spark plugto check whether setting is correct or not.

3-2 BASIC TUNING NOTES

- Basic jetting of the air screw is fully in, then 1 and a half turns out. If engine runs to rich or to lean try
 to adjust with air screw, if this cannot be done within a few turns of the screw change slow jet.
- If mixture is too rich between closed and half throttle, and if this cannot be rectified with the air adjustment screw, go to a smaller slow jet.
- Running your engine in too rich will result in your engine not running at its best, running it too lean
 will eventually damage your engien's components such as piston, cylinder and head. We therefore
 recommend starting on the rich side when you set up your engine and work your way down to the
 proper setting.
- Check and read the spark plug to learn about the mixture your engine requires.
- Spark plug is black, or even wet: your engine runs too rich. Unbrnt fuel causes soot to built up on spark plug.
- 2.Spark plug is dry and grey, or even white: Your engine runs to lean. This may lead to damage of engine componets such as piston, cylinder, head. spark plug saused by overheating.
- Go for a richer setting, use larger jets.

 3.The spark plug is brown and looks clear:
 Mixture is as it should be.
- When changing to a larger main jet this will affect your engie's performance at half to full throttle. Always change one factor at a time and assess the changes this has made to the engine's performance before changing something



Environment	The states of mixture	Improve the mixed gas directionality
High temperatures	Rich	Rare
Low temperatures	Rare	Rich
High humidity	Rich	Rare
Low humidity	Rare	Rich
High altitude	Rare	Rich

3-3 NATURAL ENVIRONMENTAL FACTORS

• If you run an engine to lean for a longer period it is likely to overheat and suffer damage.

4 BASIC TUNING The states of Setting **Problem** Notes mixture Turn the air screw • There may be an When idling counterclockwise to enrich the mixture. air-leak in the inlet tract. Engine runs erratic Lean Change to a bigger slow jet. RPM is not stable Change to a smaller diameter needle to make mixture richer. Turn air screw in to make When idling mixture leaner • The engine is stalled Change to a smaller slow jet Rich Exhaust fumes are Change to a larger diamete needle to make mixture leaner When riding away Poor acceleration Lean Change to a bigger main When riding away Rich Change to a smaller main Engine runs erratic Between closed Go for a thinner needle to throttle and one make the mixture richer. quarter throttle opening Lean Turn the air screw • Engine stalls and does not pick up revs counterclockwise to enrich the mixture. Between closed Go for a bigger needle to make mixture leaner. throttle and one quarter throttle This may happen in rainy Turn the air screw clockwise to make the air thinner. If these two measuers do not slove the problem try a smaller idle jet. conditions in particluar, pay attention to the Rich opening engine temperature Acceleration is hesitant or irregular Between one quarter and half throttle Change the needle jet to Please check 3-1 Basic Lean a bigger one to make the knowledge & Adjustment Engine brakes mixture richer Engine bogs Throttle between a quarter and half Change the needle jet to a Please check 3-1 Basic smaller one to make knowledge & Adjustment Rich mixture leaner. Acceleration is bad Throttle is fully open RPM changes a: Ignition could be out. erratically that is too much advance. Change main jet to a large Engine Pings, Lean b: Here may also be an air one(Spark plug should be Detonation leak in the inlet tract Spark plug is dry and white Throttle is fully open · Adjust mixture by using a Engine speed rises smaller main jet. Keep checking spark plug until Air filter could be bolcked. slowly Rich Also check choke is not Engine feels flat colour is brown stuck Spark plug is black Check all parts involved as Rapid throttle described above and Rich/Lean opening settlement, don't rush things.