

## 49CCSCOOT.COM CARBURETOR TUNING WORKSHEET

**PRE-TUNING PREPARATION :** CARBURETOR & FUEL SYSTEM ARE CLEAN  FLOAT HEIGHT CHECKED / ADJUSTED  STARTING MAIN JET CHOSEN & INSTALLED  VACUUM HOSES PROPERLY ROUTED  AIRBOX / AIR FILTER CLEAN AND SECURELY INSTALLED  NO VACUUM LEAKS  SCOOTER OTHERWISE IN STATE OF GOOD REPAIR

**QUICK IDLE SETTING :** ENGINE STARTED & WARM  IDLE SPEED ADJUSTED SO WHEEL DOES NOT SPIN FAST & ENGINE DOES NOT STALL OUT

**MAIN JET TUNING :** WOT PASSES COMPLETED WITH MULTIPLE MAIN JETS, BEGINNING RICH AND WORKING TO FIND PEAK POWER (RECORD RESULTS BELOW)  RESULTS ANALYZED & LARGEST MAIN JET WITH BEST RESULTS SELECTED & INSTALLED

**IDLE CIRCUIT ADJUSTMENT:** TURNS REQUIRED TO SEAT MIXTURE SCREW COUNTED & SCREW RESET TO ORIGINAL POSITION  ENGINE STARTED & WARMED UP  IDLE SPEED SET 1500-2000RPM OR FOR STABLE IDLE WITHOUT STALLING OR WHEEL SPINNING FAST  MIXTURE SCREW ADJUSTED TO FIND HIGHEST IDLE SPEED, KEEPING RPM IN CHECK WITH IDLE SPEED SCREW AS NECESSARY  IDLE SPEED RE-ADJUSTED FOR STABLE IDLE

**MID-THROTTLE TUNING :** TEST 1/4 TO 3/4 THROTTLE OPERATION ON CENTER STAND & ADJUST NEEDLE TO IMPROVE RESPONSIVENESS & ELIMINATE BOGGING OR HANGING RPM  TEST 1/4 TO 3/4 THROTTLE OPERATION WHILE RIDING & ADJUST NEEDLE TO IMPROVE THROTTLE RESPONSE & ELIMINATE BOGGING OR HANGING RPM

**FINAL IDLE SETTING :** ENGINE STARTED & WARMED UP  IDLE SPEED SET 1500-2000RPM OR FOR STABLE IDLE WITHOUT STALLING OR WHEEL SPINNING FAST  MIXTURE SCREW ADJUSTED TO FIND HIGHEST IDLE SPEED, KEEPING RPM IN CHECK WITH IDLE SPEED SCREW AS NECESSARY  IDLE SPEED RE-ADJUSTED FOR STABLE IDLE

### MAIN JET TUNING RESULTS

WEATHER : TEMPERATURE:		HUMIDITY:	WIND:	DATE:
MAIN JET	SPEED 1	SPEED 2	OTHER OBSERVATIONS	

\*SPEED 1 & 2 SHOULD BE USED TO RECORD SPEED IN 2 DIRECTIONS. NOTE RPM, FEEL, SOUND, ETC... IN OBSERVATIONS BOX.

### REMINDERS

- ONLY CHANGE ONE THING AT A TIME -
- ALWAYS BEGIN RICH & ERR TOWARD RICH FINAL SETTINGS -
- MOVE THE NEEDLE CLIP UP TO LEAN, DOWN TO RICHEN -
- IF MIXTURE SCREW IS ON AIR FILTER SIDE IT CONTROLS AIR (TURN IN TO RICHEN, OUT TO LEAN) -
- IF MIXTURE SCREW IS ON ENGINE/INTAKE SIDE IT CONTROLS FUEL (TURN OUT TO RICHEN, IN TO LEAN) -
- MAIN JET = 3/4 - WOT, NEEDLE = 3/4 - 1/4 THROTTLE, IDLE CIRCUIT = IDLE - 1/4 THROTTLE -
- TAKE YOUR TIME AND DON'T SKIP ANY STEPS -

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