

* SETUP AND ROUGH TUNING *

Adjust float level

NEEDLE JET

remove main jet
set needle to leanest position
start engine and let idle
open up the throttle slowly

IF engine floods as throttle is opened
THEN needle jet is fine

IF engine continues to run up to 75% and 100% open throttle
THEN replace with larger needle jet

engine should be rich at this point

MAIN JET

set needle to middle position
adjust main jet until engine runs well at 100% open throttle
ignore response and acceleration at this point

IDLE JET

back out idle speed screw until throttle slide is completely closed
turn idle speed screw back in until the slide JUST opens
close idle air screw completely
back out 1 - 1.5 turns
start engine
obtain smooth 1200 rpm idle by adjusting idle air screw and idle speed screw

IF engine does not idle smoothly
THEN idle jets may need replaced

IF screwing idle air screws in increases engine rpm
THEN idle jets are too small

IF screwing idle air screws out increases engine rpm
THEN idle jets are too large

idle air screw should not be turned out more than 3 turns
rich mixture should occur when idle air screw is less than 1 turn out

Synchronize carburetors

THROTTLE SLIDE

up to 25% throttle

IF engine coughs/dies as throttle is opened
THEN change to richer throttle slide (less cutaway)

Resynchronize carburetors

Ensure idle jets are still appropriate

* FINE TUNING *

MAIN JET

perform test run at 75% - 100% throttle
check plugs
change main jet until plugs show proper mixture

NEEDLE

perform test runs at 25%, 50% & 75% throttle

IF engine snatches and surges
THEN mixture is rich, lower needle one groove repeat as necessary

perform steady acceleration runs between 25% - 50% and 50% - 75% throttle
note where mixture is lean/rich

IF mixture is lean at 25% - 50% throttle but rich at 50% - 75% throttle
THEN needle taper is too steep, change to smaller angled needle

IF mixture is rich at 25% - 50% throttle but lean at 50% 0 75% throttle
THEN needle taper is too small, change to steeper angled needle

MAIN JET

perform test run at 75% - 100% throttle
check plugs
change main jet until plugs show proper mixture