This information is for the Brucato Advanced Control Unit – ACU. Please read these instructions carefully.

The ACU comes preprogrammed with a preliminary fuel curve for your application. Contact Brucato Inc. with any questions you may have; 919-234-1776.

The overall fuel delivery may be adjusted with the main adjustment pot.

Acceleration Compensation feature adds extra fuel delivery when throttle movement is detected for optimum acceleration.

The programmed fuel curve may be customized with the optional interface cable. This allows manipulation of fuel delivery at different vacuum /RPM levels. Additionally, the rev limiter can be adjusted.

INSTALLATION INSTRUCTIONS

The ACU may be mounted in the stock location using the stock Mercury brackets and rubber isolators. Be sure that the battery is disconnected when connecting or disconnecting any ECU. Connect ECU harness and vacuum line.

*** The Brucato ACU does not use the factory throttle position sensor so there is no need to adjust the TPS. The Brucato ACU calculates virtual throttle position using engine RPM and the map sensor. ***

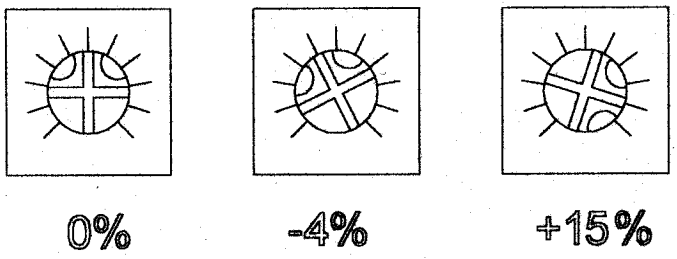
IT'S THAT SIMPLE!

KNOB ADJUSTMENT SETTINGS

After removing the cover of the ACU you will see five knobs which have an adjustment range of -15% counter clockwise and +15% clockwise.

The pointer location of the Phillips head is denoted by the slot with half circles on either side. (Shown straight up in the first image below – 0%).

Each of the graduations on the body of the potentiometer represents approximately 4% adjustment, however adjustments as small as 1% may be made. Negative adjustment is counter clockwise and positive adjustments are clockwise, as shown below.



FUNCTIONS DESCRIPTION

Knob marked **"Main"** controls entire fuel delivery.

Accel – Comp Sensitivity – adjusts the minimum amount of throttle movement required to activate Accel Comp function.

Accel – Comp Volume – controls volume of extra fuel metered during acceleration.

Part Throttle - adjusts fuel delivery +/- 15% at less than full throttle in the RPM range of 1,800 through 7,500 with no affect at wide open throttle.

Idle – adjusts fuel delivery +/- 15% at less than full throttle in the RPM range of 0 through 1,800 with no affect at wide open throttle.

OPTIONAL STEAMWHEEL INSTRUCTIONS:

The optional Steamwheel will allow adjustment to the overall fuel curve from the driver's seat, allowing fuel delivery compensation for altitude, temperature, etc.

The Steamwheel offers fuel adjustments to add fuel from 0% to 50% by turning the knob to the right and fuel adjustments to reduce fuel from 0% to 40% by turning the knob to the left.

Turning the Steamwheel knob fully counter clockwise through the negative range will set the adjustment to 0%.

Care should be used when making these adjustments and it is recommended that they only be done with feedback from EGT readings or spark plug/piston top readings.

NOTE:

It is required that resistor sparks plugs be utilized with the BRUCATO ACU.

For standard compression motors we recommend NGK – BR8HS10 spark plugs.

For high compression motors we recommend NGK – BR9HS10 spark plugs.

The SVS intake system PCU and ACU Electronic Control Unit is for use on 1997 or earlier motors. For use on 1998 or newer models, application must be for competitive use only. User must determine suitability and proper use and assumes responsibility for use in all applications, including compliance with EPA-regulation Emissions Inventory Improvement Program (EIIP). Brucato, Inc. assumes no liability for improper application or use of any SVS or PCU system.