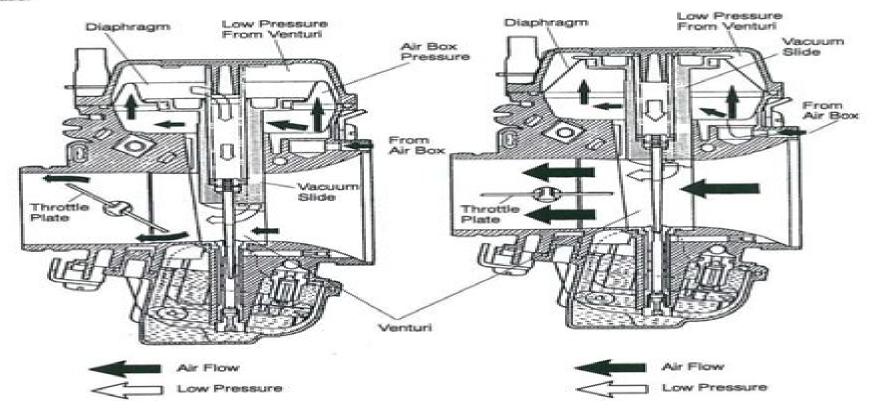
# MIKUNI CV CARB OPERATION

The constant velocity carburetor incorporates a mechanically operated throttle plate and a vacuum controlled slide valve (vacuum slide). The venturi cross-sectional area in the carburetor bore is increased or decreased automatically by the vacuum slide, which moves according to the amount of negative pressure (less than atmospheric) present in the venturi.

A diaphragm attached to the top of the vacuum slide is sealed to the slide and to the carburetor body forming two chambers. The chamber above the diaphragm is connected to the venturi area by a drilled orifice in the center of the vacuum slide. The chamber below the diaphragm is vented to atmospheric pressure by a passage on the air box side of the carburetor. A spring, installed in the center of the vacuum slide, dampens the slide movement and assists the return of the slide.

When the throttle plate is opened and engine speed begins to increase, the pressure in the venturi (and therefore in the chamber above the diaphragm) becomes significantly lower than atmospheric. Atmospheric pressure in the chamber below the diaphragm forces the diaphragm upward, raising the slide against spring pressure. When the pressure above and below the diaphragm are nearly equal, the slide moves downward under spring pressure. Raising or lowering the slide increases or decreases the cross sectional area in the venturi, and therefore the air velocity in the venturi is kept relatively constant. This provides improved fuel atomization and optimum fuel/air ratio.



Note: Diagrams are for explanation of theory only, and are not true representations of Mikuni BST 34 / BST 40 carburetor.

# **Polaris Trail Boss 325 Service Manual**

**Jeff Clew** 

#### **Polaris Trail Boss 325 Service Manual:**

Polaris ATV Owners Workshop Manual Alan Ahlstrand, John Harold Haynes, 2004 The purpose of this manual is to help you get the best value from your ATV It can help you decide what work must be done even if you choose to have it done by a dealer service department or a repair shop it provides information and procedures for routine maintenance and servicing and it offers diagnostic and repair procedures to follow when trouble occurs This book should allow you to tackle any job yourself Polaris Sportsman 600, 700, & 800 Series 2002-2010 Penton Staff, 2000-05-24 Sportsman 600 2003 2005 Sportsman nbs 700 2002 2006 Sportsman 700 EFI 2004 2007 Sportsman 700 EFI X2 2008 Sportsman MV7 2005 2006 Sportsman 800 EFI 2005 2010 Sportsman 800 EFI X2 2007 2009 Sportsman 800 EFI Touring 2008 2009 Polaris ATVs 250-800cc, '98-'07 Alan Ahlstrand, Ken Freund, 2018-05-01 Each Haynes manual provides specific and detailed instructions for performing everything from basic maintenance and troubleshooting to a complete overhaul of the machine in this case the Polaris ATVs 250 800cc model years 1998 through 2007 Do it yourselfers will find this service and repair manual more comprehensive than the factory manual making it an indispensable part of their tool box A typical Haynes manual covers general information troubleshooting lubrication and routine maintenance engine top end engine lower end primary drive clutch and external shift mechanism transmission and internal shift mechanism engine management system electrical system wheels tires and drivebelt front suspension and steering rear suspension brakes body and color wiring diagrams An index makes the manual Honda XL 250-350 Trail Bikes Owners Workshop Manual Jeff Clew, 1974-01-01 CZ 125/175 and easy to navigate 175 Trail Owners Workshop Manual Mervyn Bleach, 1975-01-01

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