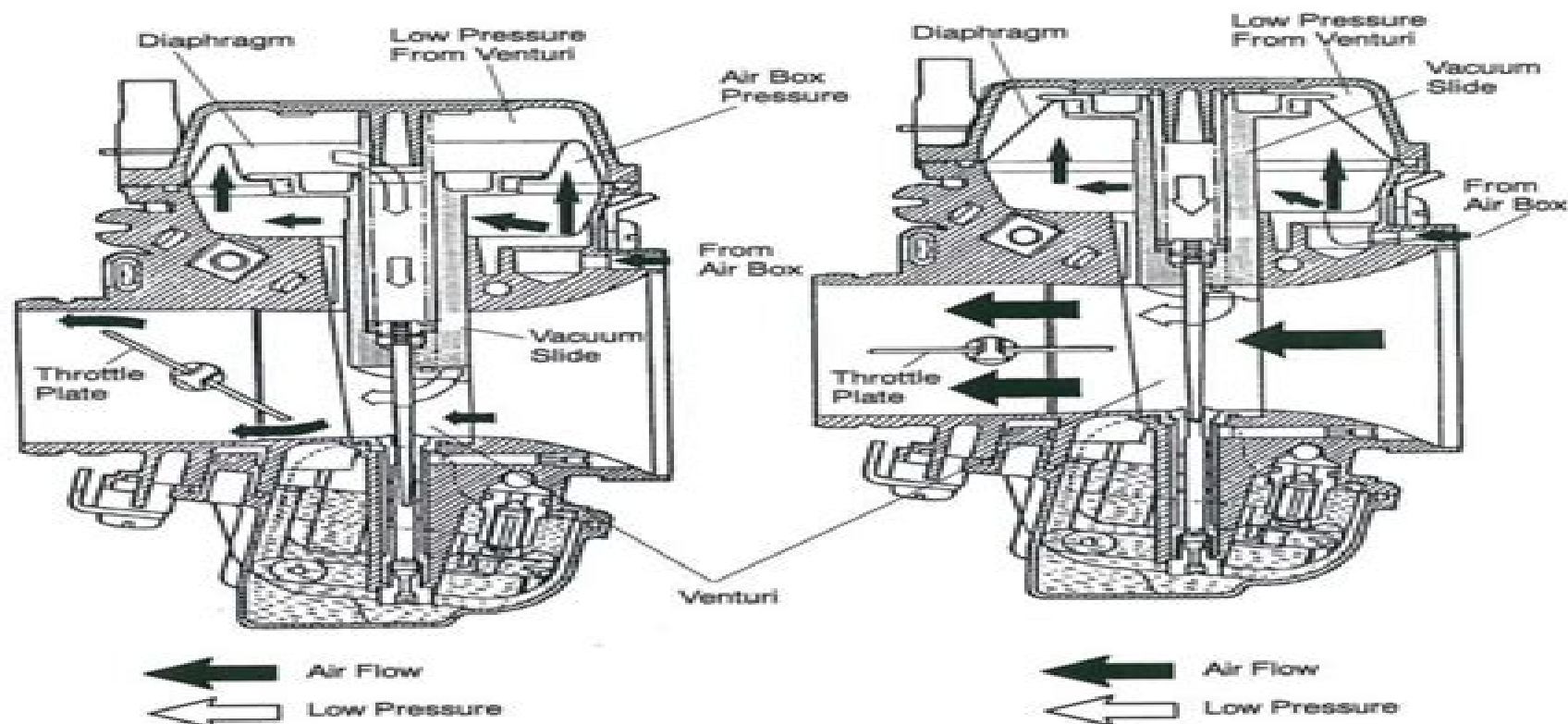


MIKUNI CV CARB OPERATION

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

Patrick Vollmar



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Table of Contents Polaris Trail Boss 325 Service Manual

1. Understanding the eBook Polaris Trail Boss 325 Service Manual
 - The Rise of Digital Reading Polaris Trail Boss 325 Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Polaris Trail Boss 325 Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Polaris Trail Boss 325 Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polaris Trail Boss 325 Service Manual
 - Personalized Recommendations

- Polaris Trail Boss 325 Service Manual User Reviews and Ratings
- Polaris Trail Boss 325 Service Manual and Bestseller Lists
- 5. Accessing Polaris Trail Boss 325 Service Manual Free and Paid eBooks
 - Polaris Trail Boss 325 Service Manual Public Domain eBooks
 - Polaris Trail Boss 325 Service Manual eBook Subscription Services
 - Polaris Trail Boss 325 Service Manual Budget-Friendly Options
- 6. Navigating Polaris Trail Boss 325 Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Polaris Trail Boss 325 Service Manual Compatibility with Devices
 - Polaris Trail Boss 325 Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polaris Trail Boss 325 Service Manual
 - Highlighting and Note-Taking Polaris Trail Boss 325 Service Manual
 - Interactive Elements Polaris Trail Boss 325 Service Manual
- 8. Staying Engaged with Polaris Trail Boss 325 Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polaris Trail Boss 325 Service Manual
- 9. Balancing eBooks and Physical Books Polaris Trail Boss 325 Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polaris Trail Boss 325 Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Polaris Trail Boss 325 Service Manual
 - Setting Reading Goals Polaris Trail Boss 325 Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Polaris Trail Boss 325 Service Manual
 - Fact-Checking eBook Content of Polaris Trail Boss 325 Service Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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