

# VOLVO PENTA INTERCEPTOR SYSTEM 300-1050

The trim system for simpler, safer and more comfortable driving



**The Volvo Penta Interceptor system will make your driving experience a whole lot simpler, safer and more comfortable, while also reducing your boat's fuel consumption.**

The trim system is fully integrated into our electronic platform – Electronic Vessel Control – and is available in three versions. The manual version is standard, but the optional, automatic versions are where the system really excels.

Just press the TRIM ASSIST button to activate the Auto mode and enjoy a smooth and comfortable ride – fully automatically!

This robust system can be used for both planing and semi-planing on Volvo Penta-powered boats 35 feet and larger.

## Superior onboard comfort

By continuously compensating for wind and load, the system adjusts the boat to the most favorable running angle while everyone onboard benefits from a more comfortable ride. With the automatic option – Auto mode – the driver can lean back and focus on driving. Controlling the system is easy as it's all integrated in the control lever. It also enables planing at lower speeds for more fuel-efficient and comfortable performance.

## Advanced technology to actively stabilize roll and pitch motions

The Active Ride system provides a comfortable boat ride in open seas when the boat is exposed to waves that will cause roll and pitch motions. At the same time as the system optimizes the running trim and list angle, the roll and pitch motions are automatically compensated for by the interceptors.

The Active Ride Control Unit consists of:

- a digital controller with adaptive control algorithms
- a sensor package (3D rate of turn and ship accelerations measured with GPS, gyro and accelerometers)

This efficient ride control system is applicable for boats from 35 foot to over 100 foot, operating from semi-displacing to planing speeds.

### Manual

The precise manual control function is standard and can be extended with two optional auto modes.

### Auto Trim and List

Automatic correction of your boats Trim & List optimizing your boat's performance on the water in all conditions.



Trim



List

### Auto Trim, List and Coordinated Turn

Automatic correction of your boats Trim & List optimizing your boat's performance on the water in all conditions.

The Coordinated Turn automatically controls the list angle during turns for improved comfort and safety.



Trim



List



Coordinated Turn

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## Improved onboard safety

Compared to a boat with a traditional trim system, a boat equipped with the Volvo Penta Interceptor system, in Auto mode, quickly moves up on the plane and stays more upright in sharp turns. This means significantly improved visibility, both ahead and either side while also enhancing overall safety. With the Auto mode activated, the driver can focus on maneuvering and navigating – confident that the boat's handling and performance are optimized.

## Save fuel and reduce the environmental impact

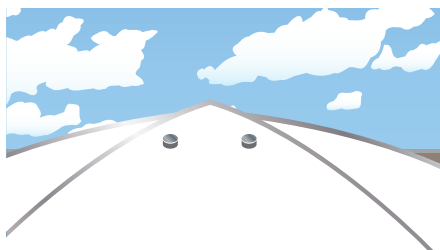
When activated in Auto mode, the Volvo Penta Interceptor system's trim function repeatedly adjusts the interceptor blades – maintaining the best trim angle and minimizing fuel consumption. Less fuel means reduced costs and environmental impact.

## Integrated in the Electronic Vessel Control platform

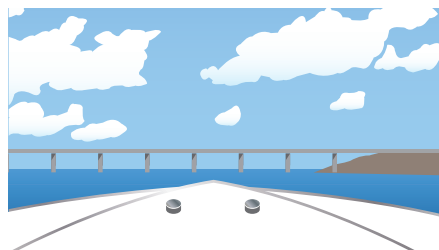
Volvo Penta's electronic platform – Electronic Vessel Control – integrates the boat's engines and electronics, including the Volvo Penta Interceptor system.

With radically reduced wiring and heavy-duty connectors, Electronic Vessel Control gives a robust installation and greatly improved reliability. No separate control panel is needed for Interceptor system – it is fully integrated in the control for a simplified and more user-friendly driver interface. The system has advanced automatic functionality (option) and is designed to work in harmony with Powertrim Assistant. The Auto mode functionality is also customized to each boat model for best performance.

Without Volvo Penta Interceptor system



With Volvo Penta Interceptor system



With the Volvo Penta Interceptor system, the boat is quickly up on plane with better forward visibility.

## Interceptors vs. traditional trim tabs

- Higher efficiency at planing
- Less wet surface means less friction
- Composite materials – no corrosion
- Electronic actuator and no hydraulics mean virtually no maintenance
- Automatic self-cleaning once every 24 h
- Compact dimensions gives uncluttered transom
- Automatic retraction at engine shut-off
- Virtually no maintenance



Learn more about the Volvo Penta Interceptor system

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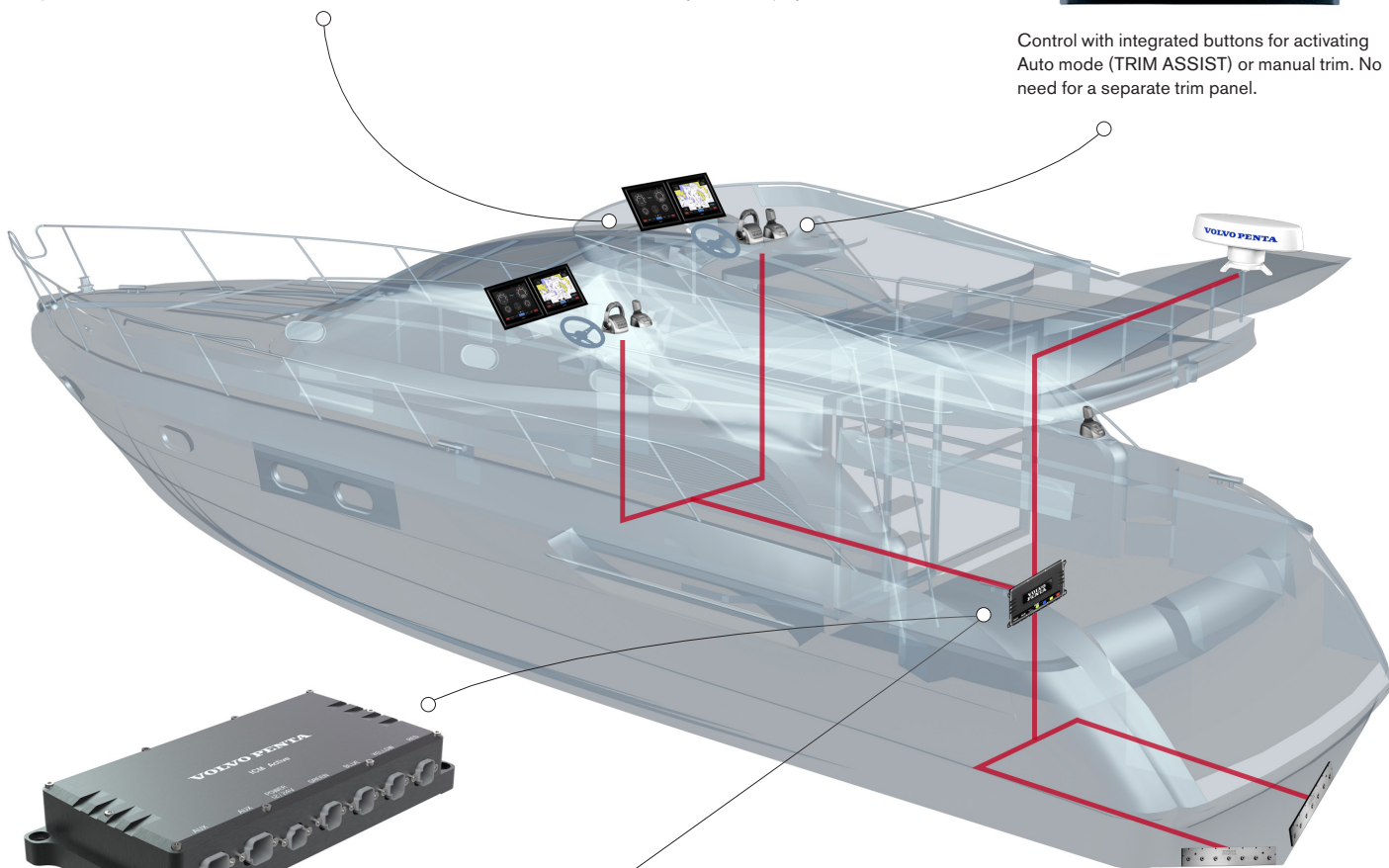
In the Glass Cockpit System, all vital engine data and navigation information is collected in one place – for easy overview and perfect control.



The trim indicator is integrated in the Glass Cockpit System and can be selected in any of the display views.



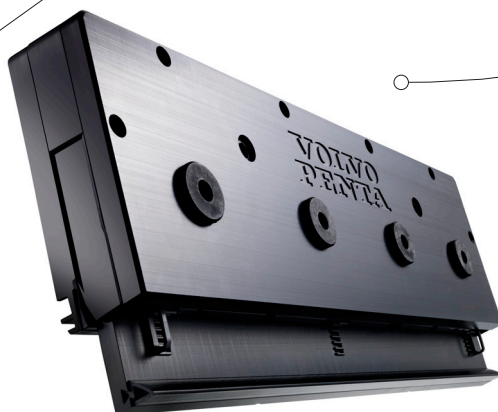
Control with integrated buttons for activating Auto mode (TRIM ASSIST) or manual trim. No need for a separate trim panel.



The Active Ride control unit to stabilize roll and pitch motions for comfort and safety.



The Interceptor control unit controls the movements of the interceptor blades depending on GPS position, rudder angle, engine data, gyro sensor and accelerometer.



The compact interceptor blades require minimal maintenance thanks to the composite materials. The blades have an automatic, self-cleaning function and a full stroke of 50 mm.



The powerful, electric servo units are extremely responsive: full stroke is possible in a single second.



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## Features and benefits

- Quickly up on plane
- Smooth boat behavior
- Stabilizes in the turns
- Greatly enhanced visibility and safety
- Improved fuel efficiency
- Easy handling thanks to the unique Electronic Vessel Control integration
- Available as a fully automatic system with manual overlay control at all times
- Easy to upgrade from manual to Auto functionality
- Robust construction with its origin in large, commercial vessels
- Developed for Volvo Penta power systems
- Efficient roll and pitch damping at semi-planing and planing speeds, for comfort and safety
- Active Ride Control for a smooth ride to reduce the risk of seasickness

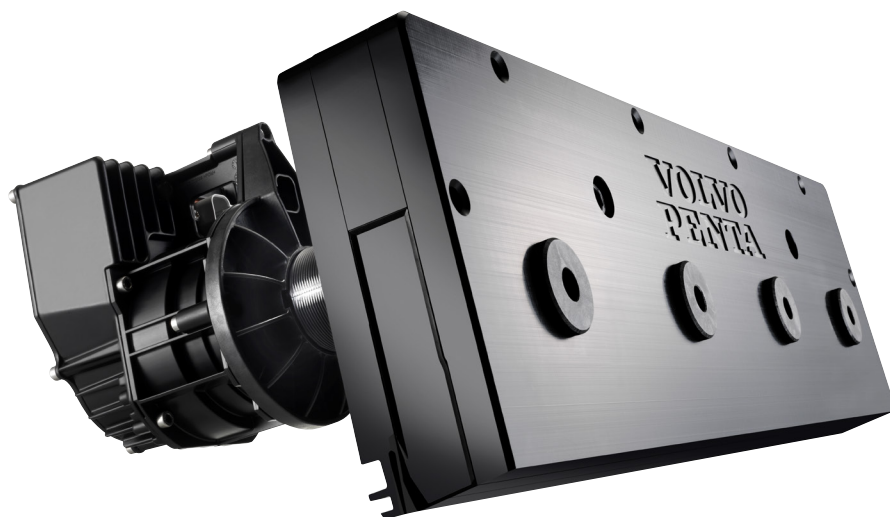
## Self-cleaning mode

The system will cycle into a self-cleaning mode that minimizes marine growth. The cycle consists of multiple full stroke activations while the boat is at rest. This will mechanically remove marine growth from the blades.

## True turn

In Auto mode with Coordinated Turn, the system is capable of adjusting the list in a turn based on a predetermined value, specific to each boat model. This keeps the boat more upright in sharp turns and allows for a true turn, i.e. when people aboard feel no sideways forces during the turn. It creates a less dramatic and more comfortable boat characteristics. Auto Trim, List and Coordinated Turn is available for Volvo Penta IPS, Aquamatic & Inboard shaft applications with Volvo Penta electronic steering.

The robust interceptors are made from corrosion-free materials and require virtually no maintenance. The composite material does not cause any galvanic corrosion and does not require protective anodes that have to be replaced.



## Technical information

Application	Planing or semi-planing boats with Volvo Penta engines
Boat sizes	35-100+ foot
Blade servo	Brushless, Capacity: full stroke in 2 seconds (12 V) 1 second (24 V)
Blade sizes	300, 450, 600, 750, 900 or 1050 mm (one or two pairs per boat)
Blade stroke	50 mm
Options	Auto Trim & List or Auto Trim, List & Coordinated Turn, Active Ride
Material	Composite material, no corrosion
Control panel	Auto, Trim and List buttons integrated in the top-mounted engine control
Display	Information shown in the Electronic Vessel Control display

Please contact your local Volvo Penta dealer for further information. Please note that products illustrated may differ from production models. Not all models and accessories are available in all markets, and standard equipment may vary between different markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.



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