

OptiRide™

**ELECTRONICALLY CONTROLLED AIR SUSPENSION
FOR BUS, COACH AND MOTOR HOME**



WABCO

A NEW “LEVEL” OF RIDE PERFORMANCE

WABCO's OptiRide electronically controlled air suspension (ECAS) system provides a new level of ride performance for buses, coaches and motor homes. OptiRide enhances the vehicle's air suspension by automatically maintaining the vehicle's optimum height and level as road and vehicle characteristics change. In addition to an enhanced ride, OptiRide offers ride height control and kneeling functions with rapid response times.

OPTIRIDE BENEFITS INCLUDE:

— ALLOWS —
VEHICLE ACCESS
to normally inaccessible areas

REDUCED
AIR CONSUMPTION

EASE of
ENTRY and
EXIT for
PASSENGERS

LEVEL VEHICLE BODY,
EVEN WITH WEIGHT DISTRIBUTION

REDUCED
VIBRATION AND
WEAR ON THE DRIVELINE

MAKES VEHICLE MORE ADAPTABLE TO ROAD ENVIRONMENT

OPTIRIDE ECAS FEATURES

ELECTRONIC HEIGHT CONTROL AND LEVELING FUNCTION

Height sensors constantly measure the distance between the axles and the vehicle body, sending the data to the electronic control unit (ECU). The data will change whenever the vehicle is loaded or unloaded. These changes are registered by the ECU, which through the use of a solenoid valve automatically adjusts the suspension air bags to ensure proper ride height level, enhancing ride, handling and control.

KNEELING FUNCTION

When stationary, the vehicle can be raised and lowered to facilitate passengers' entry and exit – all at the press of a button. WABCO's modular solenoid valve system does not require extra valves for kneeling, offering rapid response times and simplified installation and maintenance.

HIGH RIDE FUNCTION

This function allows the driver to raise the vehicle in driving conditions where sharp break overs (e.g. railroad tracks) or steep road angles (e.g. driveways, entrance ramps) occur. This prevents the vehicle from bottoming out. A limited height feature prevents the driver from overinflating the suspension air bags when adjusting vehicle height.

LOW RIDE FUNCTION

This function allows the driver to lower the vehicle for access to areas where low overhangs and canopies exist.

DOOR AND TRANSMISSION INTERLOCK

The system has a built-in passenger safety feature that requires the door to be shut, parking brake applied and vehicle in neutral prior to kneeling.

SIMPLE DIAGNOSTICS

WABCO's TOOLBOX software provides PC diagnostics for OptiRide ECAS and can help increase your uptime. Visit the WABCO Snap-On website at <https://wabco.snapon.com> to learn more.

SYSTEM COMPONENTS

ELECTRONIC CONTROL UNIT (ECU)

- State-of-the-art electronics function that acts as the “brain” of the OptiRide ECAS
- Compact design
- Receives driver input from control panel
- Controls solenoid valve to ensure proper vehicle height
- Constantly monitors system performance



SOLENOID VALVE

- Modular system that reduces pneumatic piping
- Reduces leveling response times to seconds
- Less hardware and fewer leak points
- Minimal space requirements



HEIGHT SENSORS

- Three-sensor system
- Maintains level vehicle body under every vehicle load





OPTIRIDE™ ELECTRICALLY CONTROLLED AIR SUSPENSION

WABCO's OptiRide is designed to enhance traction performance of 6x2 axle configurations and provide ride height flexibility by managing the vehicle's air suspension. OptiRide also provides Automatic Level Control, continually monitoring the vehicle's height (axle-to-frame distances) and correcting deviations quickly when needed through exhausting or pressurizing the air suspension bags. OptiRide will maintain the nominal vehicle level regardless of the freight load or number of passengers loading or unloading.

**For further product details contact your distributor or the
WABCO Customer Care Center at 855-228-3203.**

WABCO (NYSE: WBC) is a leading global supplier of technologies and services that improve the safety, efficiency and connectivity of commercial vehicles. Founded nearly 150 years ago as the "Westinghouse Air Brake Company," WABCO continues to pioneer breakthrough innovations for advanced driver assistance, braking, stability control, suspension, transmission automation and aerodynamics. WABCO reported sales of \$3.3 billion in 2017 and has 15,000 employees in 40 countries. For more information, visit:

www.wabco-na.com