



# ***Operator's Manual Supplement***

## ***Positive Air Shutdown***

### ***S<sup>®</sup> and Z<sup>®</sup> Booms***

***GS<sup>™</sup>-3384, GS<sup>™</sup>-3390,  
GS<sup>™</sup>-4390, GS<sup>™</sup>-5390***

***Models equipped with the following***

***Deutz engines:***

***TD 2.2 L3***

***TCD 2.2 L3***

***D 2.9 L4***

***TD 2.9 L4***

Original Instructions  
First Edition  
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Part No. 1293274GT

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# Introduction

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## Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, contact us.

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These machines comply with

 Complies with EC Directive 2006/42/EC  
See EC Declaration of Conformity

 Supply of Machinery (Safety) Regulations 2008

Complies with:  
ANSI A92  
CSA B354  
AS 1418.10

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# Introduction

## Positive Air Shutdown System

The Positive Air Shutdown system is designed to monitor the engine rpm. When the engine exceeds 3000 rpm the Valve Control Unit (VCU) turns off power to the air intake valve causing the engine to shut down.

The Positive Air Shutdown system is also equipped with an Emergency Shutdown module. The module is equipped with an emergency shutdown button (Stop) and a fault status LED. It is also designed for system testing and to reset the VCU after a shutdown has occurred.

## Pre-operation Inspection

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- Verify the operator's manual, safety manual, responsibilities manual and any necessary supplements are complete, legible and in the storage container located in the platform.
- Verify all decals are legible and in place.

Check the Positive Air Shutdown system for loose, damaged or missing parts.

- Hose clamps and other fasteners
- Wiring and harness connections
- Air intake components
- Module and VCU controller

# Introduction

## Function Test

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- 1 Open the turntable cover on the ground control side of the machine.
  - 2 Turn the key switch to ground control and pull out the red Emergency Stop button to the on position.
  - 3 Press the Stop button on the Emergency Shutdown module.
- ☉ Result: The Valve Closed LED turns on.



- 4 Press the Run button.
- ☉ Result: The Valve Closed LED turns off.
- 5 Start the engine from the ground controls.
  - 6 Set the ground controls to rabbit high idle mode.
  - 7 Press and hold the Run button.
  - 8 When the red LED starts blinking, activate and hold function enable and primary boom retract.
- ☉ Result: The engine turns off.
- 9 Press the Run button.

# Introduction

## Technical Information

Repairs to the machine may only be made by a service technician that is trained and qualified to perform maintenance on this machine.

### Fault Status Indicator

An LED on the emergency shutdown module will indicate if a fault has occurred.

There are 5 LED status indicators:

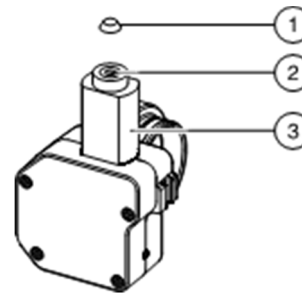
Status	Description
LED is Off.	Air intake valve is open. System working properly.
Red LED on solid.	Air intake valve closed. Engine turns off. Engine does not start.
Red LED blinks On and Off in 2 second intervals.	Air intake valve disconnected from power source or open circuit.
Red LED blinks in intervals of 3.	Air intake valve is stuck. Check air intake for debris or blockage.
Red LED blinks during engine start for 5 seconds.	No rpm tach signal detected. Open circuit..

### Override Mode

The air intake valve is designed with a manual override function that allows the valve to be adjusted to the open position in case of loss of power.

The override function should only be used in situations that require the machine be moved to a safe location when repairs to the Positive Air Shutdown system are required.

- 1 Disconnect the harness from the air intake valve.
- 2 Remove the rubber cap from the top of the valve and set aside.



- 1 rubber cap
- 2 adjustment screw
- 3 air intake valve

- 3 Turn the adjustment screw clockwise 15 - 20 turns.
- 4 Install the rubber cap.
- 5 Connect the harness to the valve.
- 6 Verify the machine will start and run.

California Proposition 65



Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel).