Exclusive Bobcat® Skid-Steer Loader Option*

BOSS®
Bobcat Operation Sensing System

Allows Easy Operator Monitoring
Helps Protect Loader
Aids Malfunction Diagnosis

BOSS® Microprocessor-Based Monitoring & Diagnostic System with Shutdown and Glow Plug Control.
The BOSS® System uses a microprocessor, located behind the operator cab to:
- Monitor loader/engine functions
- Warn of system malfunctions
- Perform automatic shutdown under certain catastrophic conditions
- Store defect codes for later service access
- Control glow plug operation

Diagnostic Tool is used by Bobcat Service Technicians to access defect codes/occurrences and current status of loader functions. Information can also be printed.

LCD Display Monitor inside cab allows operator to continuously monitor fuel level, battery condition, engine oil pressure and coolant temperature as well as the hourmeter. Service codes and warnings are displayed when applicable.

* Available on some models only. See your Bobcat dealer for details.
Optional Technology Available Only on Bobcat® Skid-Steer Loaders!

**BOSS® System Functions**

**LCD Display Continuously Monitors:**
- Fuel level
- Battery condition and charge rate
- Engine oil pressure
- Engine coolant temperature
- Hourmeter

**Displays Applicable Service Codes For:**
- Engine coolant level
- Air cleaner restriction
- Engine RPM
- Hydraulic oil temperature
- Hydrostatic charge pressure
- Hydraulic filter condition
- Hydraulic return filter condition (800s only)

**Warning Displayed For:**
- High engine coolant temperature
- Low engine oil pressure
- High engine RPM
- Air filter restriction
- Failed battery
- Low fuel level
- High hydrostatic charge filter restriction
- High hydrostatic return filter restriction (800s only)
- Low hydraulic pressure
- High hydrostatic fluid temperature

**Shutdown* (Engine Stop Solenoid Activated) For:**
- Low engine coolant
- High engine coolant temperature
- Low engine oil pressure
- High engine RPM
- Low hydrostatic fluid pressure
- High hydrostatic fluid temperature

**Glow Plug Operation:**
Automatically determines glow plug time by sensing engine coolant temperature. Countdown readout located on visual display.

**Diagnostic Capabilities (By Use of Separate Diagnostic tool):**
- Diagnostic Tool can access any stored information from the system.
- Diagnostic Tool can access loader sensors' current information/status.
- Diagnostic Tool can store a two-minute snapshot of information from each sensor/switch EVEN DURING LOADER OPERATION. Information can then be printed out on a separate printer. (This aids in diagnosing intermittent problems.)

**BOSS® System Visual Monitor**

1. Fuel level
2. Battery voltage
3. Engine oil pressure
4. Engine coolant temperature and coolant level warning/shutdown symbol
5. Shutdown symbol
6. Warning symbol
7. Hour meter/code display
8. Charge pressure and filter condition
9. Air filter condition
10. Glow plug
11. Engine speed
12. Hydraulic fluid temperature

* After a shutdown has occurred, the engine may be restarted for 30-second periods to move the loader.
Monitor Service Codes

- **ECL**  Engine Coolant Level
- **EC**  Engine Coolant Temperature
- **EP**  Engine Oil Pressure
- **ES**  Engine Speed
- **AF**  Air Filter
- **HC**  Hydrostatic Fluid Temperature
- **B**  Battery
- **FUEL**  FUEL level
- **HF**  Hydraulic Filter
- **HP**  Hydraulic Fluid Pressure

One of the following number codes will appear after a letter code.

- 0000. 1  Shutdown
- 0000. 2  Warning
- 0000. 3  Wiring Not Connected
- 0000. 4  Wiring Shorted
- 0000. 5  High Sensor Voltage
- 0000. 6  Sensor No Signal
- 0000. 7  Sensor Out of Range

Examples:

- **ECL** - 1  Shutdown, No Coolant
- **EC** - 2  Warning, High Engine Temperature
- **EP** - 3  Engine Oil Pressure Sensor Wiring Not Connected

(See Operation & Maintenance Manuals for complete listing of codes)

During A Warning:
- Triangular warning symbol flashes on visual display
- Three beeps sound
- Letter-number code displayed. Letter code refers to affected system. Number code refers to one of seven system conditions.

During A Shutdown:
- Shutdown symbol lights on visual display
- Alarm sounds continuously
- After approximately 30 seconds, engine stop solenoid is activated
- Engine can be restarted for 30-second periods to move loader
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