

Smart Screen Operator Interface



Figure 2-2-1 Smart Screen Operator Interface

The smart screen operator interface is mounted on the left armrest of the operator's seat. It is a touchscreen device, and a multi-purpose tool that provides information and feedback to the operator.

There are two screens intended for use by the operator; the **Home** screen, and the **Information** screen. Other screens and settings are available to maintenance/service personnel, accessible only with a PIN. Consult the service manual for your machine for more information.



Figure 2-2-2 Home Screen, Smart Screen Operator Interface

Home Screen

Press the Home button icon (item 26) to access the Home Screen. The home screen contains several gauges and indicators useful to the operator. See Figure 2-2-2.

1. Transmission Oil Temperature Gauge

Displays transmission oil temperature. Temperature will vary depending on drive-train loading and ambient conditions. Do not continuously operate at temperatures above 250° F.

2. Transmission Oil Pressure Gauge

Displays transmission oil pressure. Normal pressure range at operating temperature is 180-220 psi.

3. Speedometer

Displays the vehicle speed.

4. Engine Coolant Temperature

Displays engine coolant temperature. If the temperature holds steady at 220° F or higher, discontinue operation, allow the engine to idle for 3 to 5 minutes, and shut it down. Determine the cause before continuing operation. If a coolant hose failure occurs, shut the engine down immediately. Loss of coolant will result in an incorrect temperature reading.

5. Engine Oil Pressure Gauge

Displays engine lubricating oil pressure; refer to engine manufacturer for normal operating range. Check engine oil level using dipstick according to manufacturer's recommended practices.



CAUTION

Should this pressure drop below engine manufacturer's specifications during operation, STOP THE ENGINE IMMEDIATELY AND DETERMINE THE CAUSE.

6. Fuel Level Gauge

The fuel level gauge indicates how much fuel is remaining in the tank.

7. Engine Load

Displays the percentage of available engine HP being used. During normal dozing, the percentage should be near 100%.

8. Tachometer

An electrical tachometer indicating engine revolutions per minute (RPM).

9. Hydraulic Oil Temperature Gauge

Displays hydraulic oil temperature. **Do Not** operate machine until hydraulic oil temperature has reached a minimum operating temperature of 85°F (29° C).

See Normal Engine Start-Up in Section 4.

10. Voltmeter

The voltmeter indicates the voltage condition of the electrical system - whether the alternator is or isn't charging. The numbers indicate volts (acceptable range is 24-28 volts).

11. Clock

Displays the current time in 24 hour format. Click on the time to set it.

12. Engine Shutdown Timer

On machines with the optional delayed engine shutdown, this timer will display the time remaining until the engine shuts off completely after the keyswitch is turned to "OFF". In the event of an emergency, the engine may be forced to shut down immediately. See item 13.

13. Engine Kill Button

If the machine has the optional engine delay shutdown feature enabled, this button allows the operator to manually and immediately shut down the engine in an emergency.

14. Transmission Direction and Gear

Displays transmission direction:

- **F** - Forward
- **N** - Neutral
- **R** - Reverse

Also displays current gear when the transmission is in either Forward or Reverse, and displays "Auto" when the transmission is in automatic mode, set from the left joystick.

15. Set Throttle

This control sets the throttle to the set point (see item 16). The engine RPM will be set to this value. The accelerator pedal is recalibrated; the range will now be between the set point (the new lowest RPM) and high free idle (~2205 RPM).

16. Throttle Set Point

This displays the RPM the engine is set to when "Set Throttle" is engaged. This will represent the lowest RPM in the range that may be set by the accelerator pedal.

17. Throttle Set Slider

Use this slider to set the throttle set point. The bottom of the scale corresponds to engine idle, 750 RPM, and the top of the scale corresponds to high free idle, ~2205 RPM.

18. Bucket Level Indicator

When the "Bucket Level" function is activated on the right joystick, this illustration will appear on the screen. The green line will indicate the deviation of the bucket angle from the set level.

19. Declutch Indicator

The Declutch function is toggled on or off by a button on the left joystick. When Declutch is turned ON and the service brakes are applied, the declutch system automatically shifts the transmission into neutral and the Declutch icon illuminates. When the service brake is released, the transmission will reengage, and the Declutch icon will dim.

Declutch allows you to perform all hydraulic functions at any RPM smoothly, without causing converter stall or other unnecessary strains on the brake or drivetrain components.

If downgrades are encountered, the function may be turned OFF at the left joystick, and the transmission will remain in gear when the brakes are applied. This function should be left ON for normal operations.

20. Low Brake Pressure Indicator

This warning indicator will illuminate if there is low brake pressure after the parking brake has been released.

21. Parking Brake Indicator

This light indicates that the parking brake is ON.

22. Display

Press this button to set the backlight display, and to activate/deactivate the screen saver.

23. Bucket Level

This icon will illuminate when the bucket level feature has been activated.

24. Bucket Float

This icon will illuminate when the bucket float feature has been activated.

25. Implement Lock

This control both displays the current state of the implement lock, and allows the operator to engage or release implement lock. When engaged, the implement controls are shut off. To change the state, press and briefly hold. See Figure 2-2-3.

Engage implement lock when there is any danger of inadvertently moving the implement control levers during service or repair while the engine is running.



WARNING

Always engage implement lock while the engine is running before leaving the cab and performing any service work.

26. Home Button

Press this button anytime to return to this screen.

27. Information Button

Press this button to display the information screen. See Figure 2-2-4.

28. Menu Button

Maintenance or service personnel may press this button to access machine settings. A PIN code is necessary to access machine settings. See the service manual for this machine for details.

Information Screen

Press the Information button icon (item 27) to access the Information Screen. The Information screen contains reference information for the operator. The functions of the joysticks and overhead buttons are listed for reference. See Figure 2-2-4.

See Sections 2-3, 2-4, and 2-5 in this manual for detailed instructions of the joystick and overhead buttons functions.

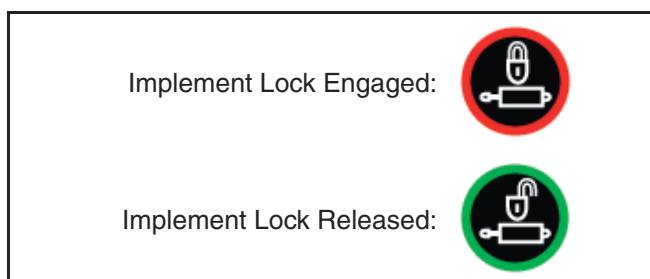


Figure 2-2-3 Implement Lock Button States

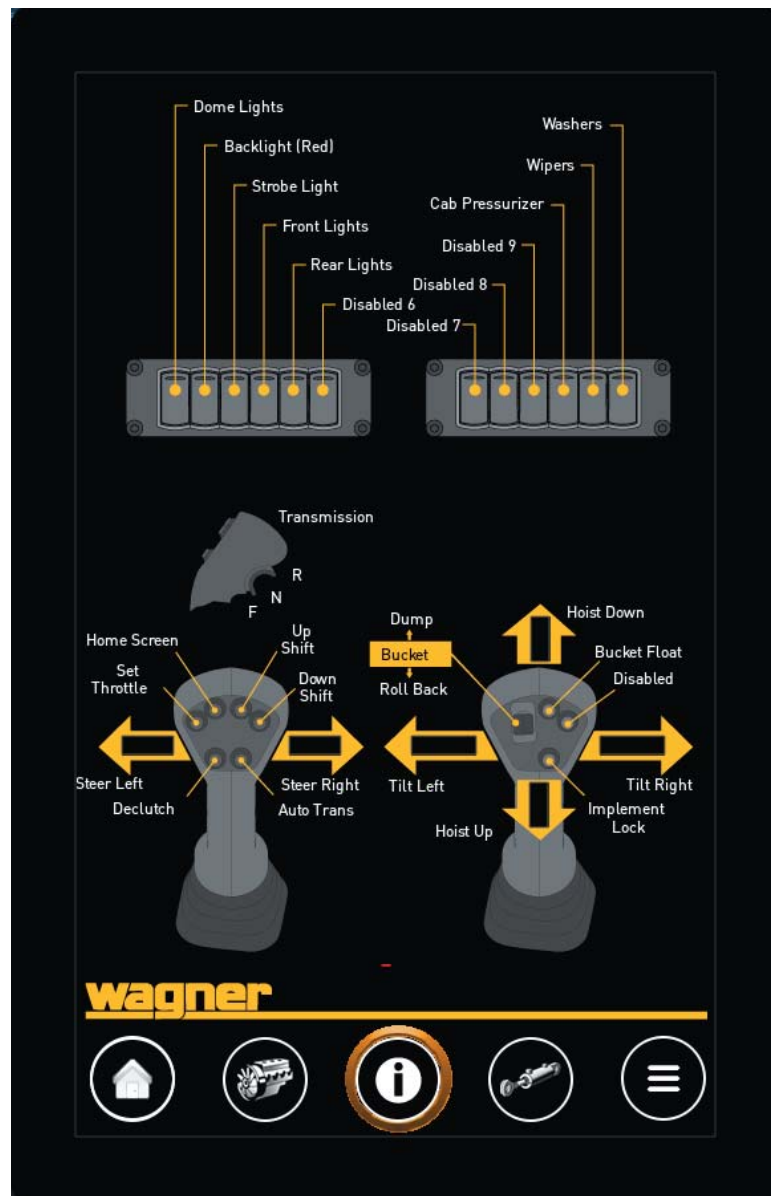


Figure 2-2-4 Information Screen, Smart Screen Operator Interface

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