AFS® Pro 600
AFS® Pro 700
AFS Field Performer
Large Tractors
Trip Computer

SOFTWARE OPERATING GUIDE

*Software Version 27.**

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1 - GENERAL

Manual scope

This manual covers the AFS Field Performer functions for the large tractor application. The manual assumes that you have read and understood the contents of the display manual in preparation for this manual.

Your manuals have changed to a layered approach to match the layered architecture in your new farming software. Each manual builds on the knowledge learned in the previous manual; the display manual is required reading for this application manual.

This application manual is organized as follows:

- Chapter 2 explains the control and reporting windows available from the Field Performer application for monitoring productivity and performance during crop production.
- Chapter 3 explains how to use software features for the remote valves, rear hitch, Automatic Productivity Management (APM) and auto-PTO.
- Chapter 4 explains how to use the Field Performer application to monitor productivity and performance; how to use the electronic End of Row (EOR) system; and how to use the service and maintenance features.

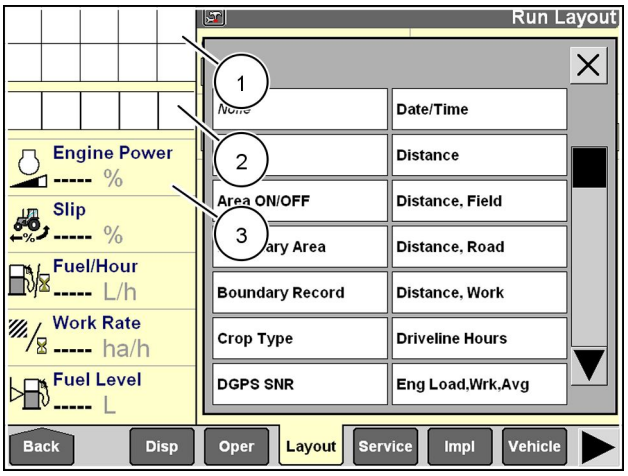
2 - ICONS AND WINDOWS

VEHICLE ICONS

Status and warning icons

The left hand area is visible on all screens and is split into three areas for your tractor:

- the status icon area **(1)**,
- the horizontal sequence bar used with the electronic End Of Row (EOR) system **(2)**. See **4-18** for information on this feature,
- and the window area providing operator selected performance information, productivity information or maps **(3)**.



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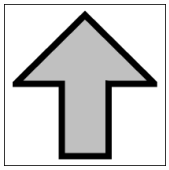
Six status icons are specific to the large tractor application and display in the status area when appropriate.

	Implement position icons show the current position of the hitch-mounted or towed implement. The up arrow indicates the implement is raised.		The down arrow indicates the implement is lowered. Implement position is determined by the position of the hitch, the position of the EHR #1 lever or by input from the implement status switch.
	This area control icon flashes whenever the Area Control ON/OFF window is set to off. The operator must turn area control on to accumulate any area or time data for the current task.		The roading icon displays whenever the operator selects on in the Road Mode window to indicate the vehicle is roading to or from the field for the task. The icon disappears whenever the selection in the Road Mode window is changed to off.
	Service alert icons inform an operator when scheduled service or maintenance is approaching. The icons count down from 10 hours to 1 hour when a service interval is about to expire.		When service is due, the icon changes to a flashing service wrench. See **4-29** for more information on the icons and the maintenance functions within the large tractor application.

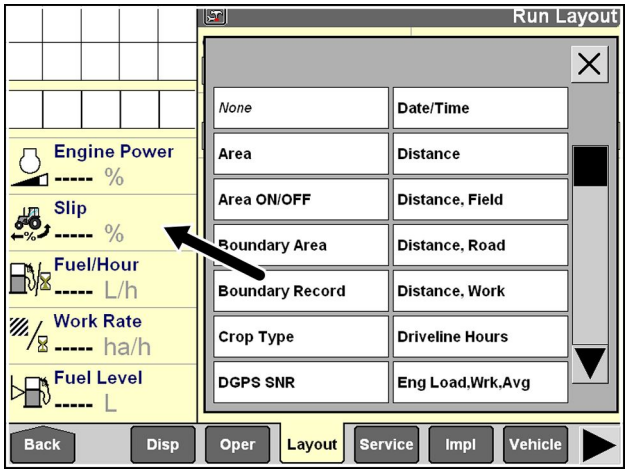
PERFORMANCE AND VEHICLE WINDOWS

Left-hand area

The arrangement of the windows in the left hand area can be changed by the operator.

Any single-column window or map which can be placed on the Run and/or Summary screens can be placed in the left hand area.

Refer to the display manual and its explanation of the Run Layout screen in the Toolbox to review window placement in the left hand area.



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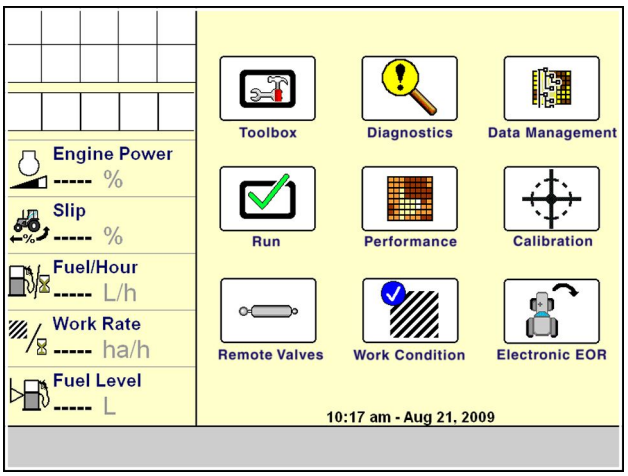
Performance windows

Home screen

The icons on the home screen organize the screens for all farming applications by their function.

Any vehicle specific software (for example, autoguidance, performance, planting, or harvesting software) can add its components to these navigation icons.



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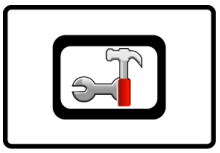
Press the Toolbox icon to access screens for setting display preferences and operator preferences, for customizing the Run screens, for setting up the GPS receiver, etc. The selections vary with the applications installed. The Toolbox provides the location where shared tools used by other applications can be configured.

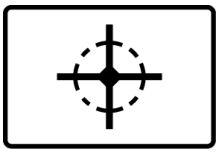


Press the Run icon to access the six user screens for all applications resident on the display. These are the screens normally used while operating the equipment.

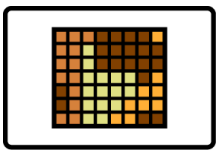
NOTE: *The names for the Run screen navigation icons cannot be edited.*

Press the Diagnostics icon to access screens for checking software revisions, controller status, specific sensor signals, resource usage, GPS signal status (if equipped), GPS receiver interface (if equipped), and for checking and clearing fault codes.

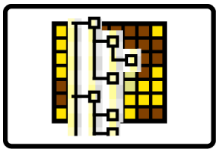
Press the Calibration icon to access the screens for vehicle and application specific calibrations such as distance, area, crop, steering sensor, etc.



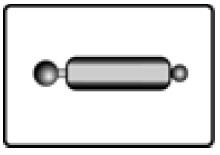
Press the Performance icon to access screens for viewing the active data set and analyzing operational results.



Press the Data Management icon to access screens for importing data, filtering data, deleting data, and managing map items.

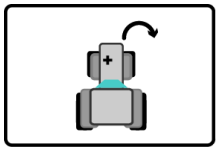


Press the Remote Valves icon to access screens for controlling remote valve flow, timers and locks.



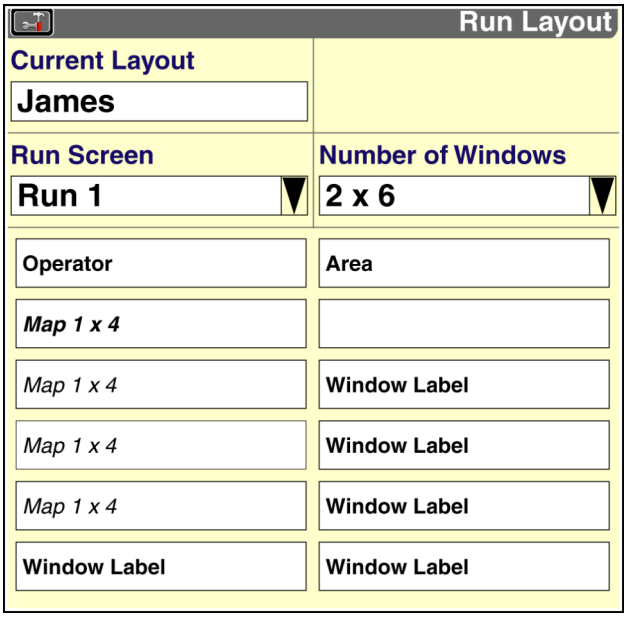
Press the Work Condition icon to access screens for controlling hitch settings.

Press the Electronic EOR icon to access screens for working with headland turning sequences.



Field Performer windows

The Field Performer windows from the Precision Farming and Trip Computer applications may be placed on any of the Run and/or Summary screens or the left hand area as indicated. Refer to the display manual and its explanation of the Run Layout screen in the Toolbox to review window placement.



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Area/work control and reporting windows

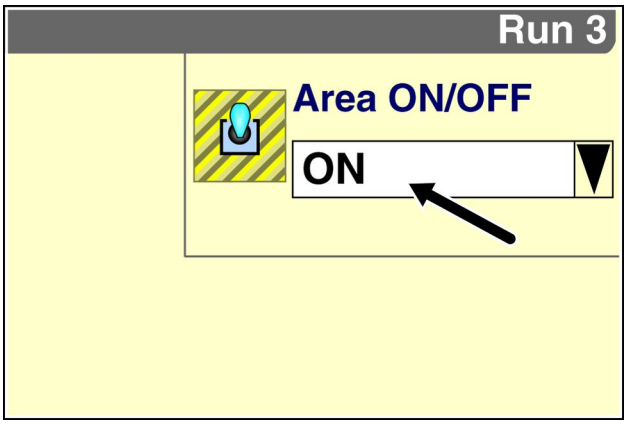
The Area, Work and Road Control windows determine how all information is gathered on area and time spent in work and out of work for the current task. This information is used then to calculate fuel economy, power and productivity.

Area On/Off

Placement label: Area On/Off
Placement location: Run screens or left hand area

The Area On/Off window is used to determine whether area and time are accumulated for the current task.

DGPS spatial data provides distance and time information. Swath width is determined by selecting an Implement to perform the work. The Area On/Off window then determines whether work data is accumulated for area and time reporting windows. This window acts as the master control for whether production data is accumulated.



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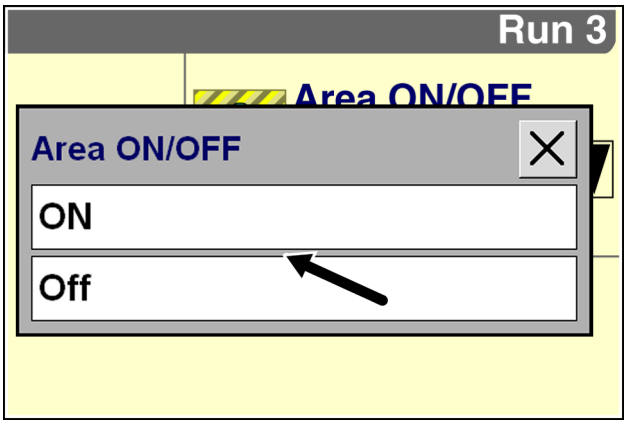
The Area On/Off window has two settings: OFF and ON. Press the Area On/Off window to access the pop-up options window.

Press the desired option.

When Area On/Off is set to OFF, area and time data are not accumulated for the current task. When Area On/Off is set to ON, area and time data is accumulated for the current task.



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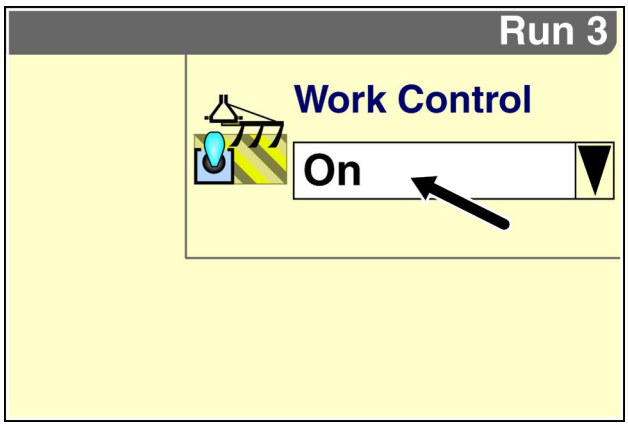
Work Control

Placement label: Work Control
Placement location: Run screens or left hand area

With the Area On/Off window set to ON, the Work Control window determines when area and time are accumulated for the current task.



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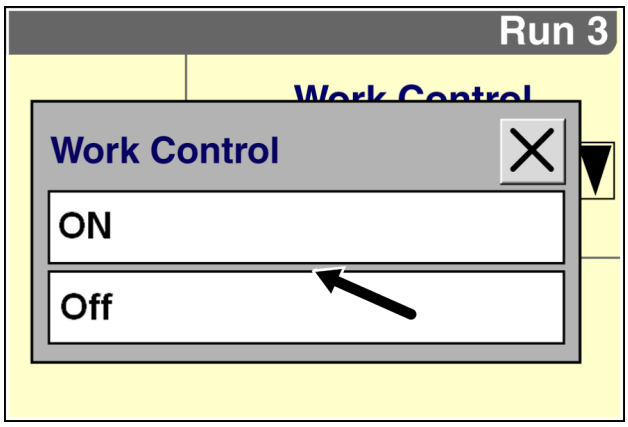
Work control operates automatically based on the input from the hitch position sensor, EHR #1 lever position or the implement status switch. Choose the desired input in the Implement Type window at Home > Toolbox > Impl. See **3-11** for information about implement setup.

When the implement is lowered, the Work Control window will read “ON.” When the implement is raised, the Work Control window will read “OFF.”



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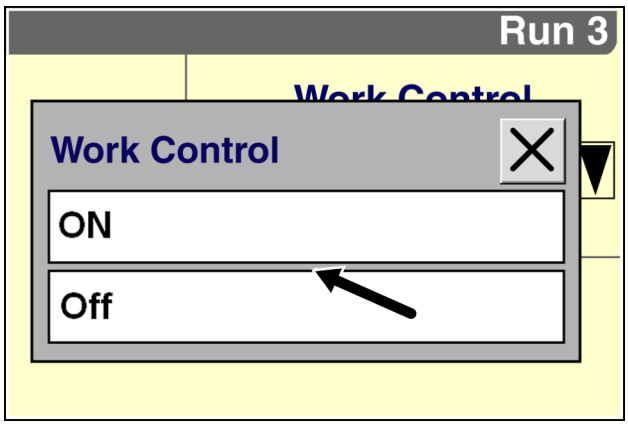
Information is gathered on area and time for the current task whenever the tractor is moving and one of three conditions is present:

- "Hitch Implement" is selected for the implement type, and the hitch is down as sensed by the standard hitch position sensor,
- "EHR 1 Implement" is selected for the implement type, and the lever for EHR #1 is in the retract or float position,
- or the implement status switch, if equipped, indicates the implement is down.

Although the Work Control window has two settings – ON or OFF – automatic operation begins based on the position of the implement, regardless of the current selection in the window.

With the implement raised, if Area On/Off is turned ON and work control is turned OFF, data accumulation will begin when the implement is lowered the first time.

With the implement raised, if Area On/Off is turned ON and work control is turned ON, data accumulation will begin when the tractor is moved. Automatic operation will begin the first time the operator lowers and raises the implement.



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