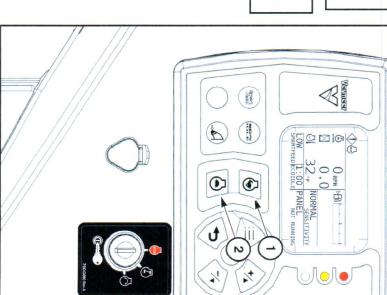
Section 20: Controls

ENGINE MONITORS (DEUTZ PETROL/DEUTZ DIESEL/PSI)

(1) Throttle Up Button
Press to set throttle to high rpm

(2) Throttle Down Button
Press to set throttle to low rpm





<u>(3)</u> EcoldleTM Engine Control System Delay Button

speed to 1,500 rpm when the control system determines there has been no material chipped for either 1 minute or 5 minutes Ecoldle system is a fuel-saving technology that drops the engine



main display screen shows the currently selected EcoIdle system through the OFF, 01:00, 05:00 delay options. The lower center of the When the EcoIdle system button is pressed, the setting cycles

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(4) **Red Engine Shutdown Lamp**

red indicator lamp will show. When Ignition Switch is ON and engine shutdown fault is detected.

Service engine as soon as possible. **NOTICE:** Serious derate will occur if machine is not shut down.

5 **Amber Engine Indicator Lamp**

diagnostic code Amber indicator lamp signals the presence of an engine warning

6 Menu Button

or view main screen from a menu or sub menu. Press to view Menu from main screen or engine information screen,



3 Return Button

Press to exit a screen or go back to the previous screen.



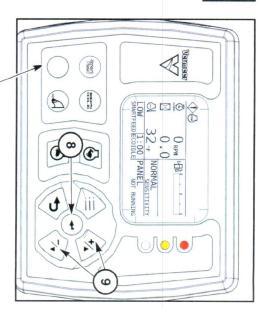
8 **Enter Button**

corresponding to the current screen. Press to enter a selected sub menu or perform an action









Not Used

(9) **Scroll Buttons**

bottom button to scroll down or decrease a value. Press top button to scroll up through a menu or increase a value and

IGNITION SWITCH (DEUTZ PETROL/DEUTZ DIESEL/PSI)

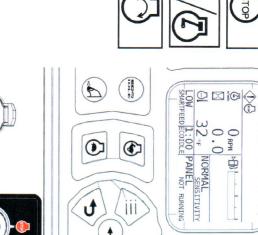
..... engine OFF

Vertical position.....

1st position clockwise engine ON

2nd position clockwise..... engine start





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MPC12 CONTROLLER DISPLAY (DEUTZ PETROL/DEUTZ DIESEL/PSI)

All engine options are equipped with the MPC12 controller with uniform displays and icons.

(1) Engine RPM

Displays the current engine rpm

(2) Hourmeter

Displays the total engine hours

(3) EcoIdle System Delay Setting

Displays the current EcoIdle system delay setting, either OFF, 01:00, or 05:00

- Refer to "EcoIdle RPM Control Option (Deutz Petrol/Deutz Diesel/PSI)," page 50-6
- (4) Active Fault Graphic

Indicates a fault is active

(5) Engine Stop Graphic

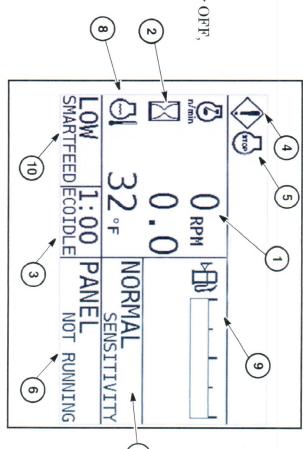
Indicates engine is in a shutdown state.

(6) Control Mode

Only PANEL available

- (7) Sensitivity Mode
- Refer to "Sensitivity Levels," page 50-4.
- (8) Engine Coolant Temperature
- (9) Fuel Gauge
- (10) SmartFeed

Displays droop settings of LOW, MED or HIGH.



Main Menu Screen

To access the Main Menu, press the Menu Button and use the Scroll Buttons to navigate. The menu options are as follows:

- 1) System Settings
- (2) Diagnostics
- (3) Faults
- (4) Machine Info

MAIN MENU



(1) System Settings

This selection contains the following options:

- Units All unit displays can be changed between Imperial and Metric units.
- Backlight Control The backlight can be enabled or disabled.
- Set Time Set the system time here, which will apply to fault stored in the Event History.
- Factory Reset This will apply the default settings to the above options: English, Metric units and backlight enabled. Reset is inhibited when the engine is running. Performing a factory reset will reboot the controller.

SYSTEM SETTINGS (1)

STINU
BACKLIGHT
SET TIME
FACTORY RESET

2 Diagnostics

The diagnostics functions available for all engine options are input status, output status and application status.

DIAGNOSTICS

2

INPUT STATUS

OUTPUT STATUS

APPLICATION STATUS

(2a)Input Status

INPUT STATUS (2a)

DIN1.NOT IN USE

DIN2.NOT IN USE

DIN3.CONTROL STOP

DIN4.CONTROL FORWARD

DIN5.CONTROL REVERSE

DIN6.NOT IN USE

DIN7.CLUTCH DISENGAGED

DIN8.CLUTCH ENGAGED

OFF 유유유

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DIN9. HOLD TO RUN

(2b)Output Status

DIG1.REVERSE COIL DIG2.FORWARD COIL DIG3.NOT IN USE DIG4.INFO LAMP

OFF

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(2p)

(2c)Application Info

LOW IDLE

FEED STATE

DISENGAGED STOP

LOWER FEED STOP FEED CONTROL BAR CLUTCH STATE

REVERSE NEUTRAL

3

ECU Fault Codes

inhibited.

Active Faults screen will be displayed until the operator acknowledges all new active

Down buttons will scroll through the list of faults. When a new fault is detected, the

faults by pressing the Enter button. During the fault popup screen, throttle controls are

Access the active and stored fault codes, or clear the active and stored fault codes. The Up/ FAULTS

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(D)	ACTIVE FAULTS
(STORED FAULTS
	EVENT HISTORY
	CLEAR HISTORY

(4) Machine/System Info

on this screen may be valuable to service when troubleshooting the machine. engine hours, system time, and installed software information. The remaining information This is a general information screen. Displayed values are machine model, engine model,

MACHINE TNEO 4

EUTZ D2.9 L4 49HP	MODEL INFO	MACHINE
49HP HRS: 0000	BC1000	TINLO

SOFTWARE INFO VER: 000.000.000 BUILD: 000000000

00:00

CUTTER ENGAGE (DEUTZ PETROL/DEUTZ DIESEL/PSI)

(1) Cutter Engage

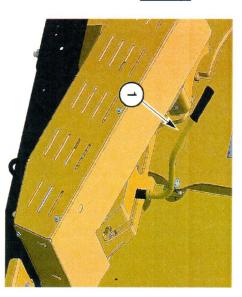
(A) Left disengaged



engaged

B)

Right

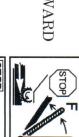


FEED ROLLER CONTROLS

(1) Upper Feed Control Bar

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y STOP
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Second position from rear.....feed roller FORWARD







Upper Feed Control Bar is spring-returned from REVERSE to STOP position and Forward position feed roller REVERSE

must be held to operate feed roller in REVERSE.

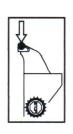


Feed roller will not move forward unless:

- Engine speed is at high RPM.
- Lower Feed Stop Bar is reset (Infeed Warning Light **not** blinking).
- Cutter Engage is set to ENGAGED.
- Upper Feed Control Bar is in FORWARD feeding position.
- Hold-to-Run/Reset Button is pressed.

NOTICE: SmartFeed control is always ON, and is activated automatically.

To reset: Briefly press Hold-to-Run/Reset Button (see (3) on next page).



 \dots feed roller stops

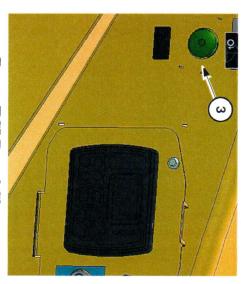


(3) Hold-to-Run/Reset Button (Located on both sides of feed table)

Press briefly......feed roller operates and *Lower Feed Stop Bar* is ignored for one second. Feed roller will automatically restart when engine speed exceeds a preset speed.

Press and hold feed roller operates for 30 sec. maximum regardless of position of *Upper Feed Control Bar* (1) and *Lower Feed Stop Bar* (2). After 30 seconds, feed roller stops.





Deutz/PSI Panel Shown

(4) Infeed Warning Light - Center

Normal sensitivity setting selected Infeed Warning Light OFF Reduced sensitivity setting selected Infeed Warning Light ON

Infeed Warning Light flashes quickly when feed roller needs to be restarted after pressing Lower Feed Stop Bar or pulling Upper Feed Control Bar.

When the *Infeed Warning Light* flashes quickly, the *Hold-to-Run / Reset Button* (3) must be pushed to reset stop system and stop *Infeed Warning Light* (4) from flashing.



LOWER FEED STOP BAR SENSITIVITY BUTTON (DEUTZ PETROL/DEUTZ DIESEL/PSI)

Press button to toggle between normal or reduced sensitivity.





SmartFeed/Droop Set Button (Deutz Petrol/ Deutz Diesel/PSI)

With SmartFeed control operation, the feed roller will stop reverse feeding material when the engine RPM drops below a preset speed, referred to as droop speed. Feed roller will automatically restart when engine speed increases to a preset speed.

Droop speed can be adjusted to high, medium or low speed using *SmartFeed Button* (1). Current droop selection is shown in the lower left corner (A) of the display.

HIGH......high-speed droop (large limbs and trunks)
MEDmedium-speed droop (small limbs)
LOWlow-speed droop (brush)



DISCHARGE CHUTE CONTROLS

(1) Chute Rotation Handles

(2) Transport Lock Pin

Rotate to center position and release lock pin so pin engages hole.....locked Rotate lock pin to left or right......unlocked

(3) Chute Deflector

Controls the distance chipped material is discharged.

 Up
farther

 Down
closer

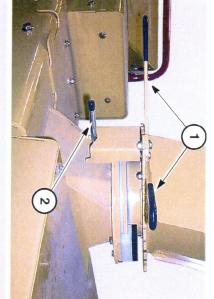
(4) Chute Deflector Lock

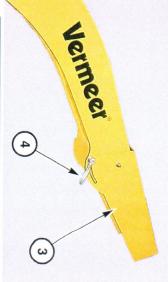
Loosen to change deflector position.

Use step on right front corner of machine to aid in reaching chute deflector lock.

(5) Chute Deflector Lock - Deluxe (Option)

Pull down to unlock and adjust deflector position.







FUSES (DEUTZ PETROL/DEUTZ DIESEL)

The fusebox is located inside the engine compartment next to the radiator.

FUSES (CUMMINS/CAT/PSI)

Remove two screws and rear shield cover from rear shield (1).

to harness and require a 20-amp fuse (only) for replacement. One fuse is for the engine/control panel and one is for the feed roller; both are attached

to be replaced, often an electrical issue may exist. Contact your Vermeer servicing Replace with 20-amp fuses, or electrical damage to system may result. If the fuse needs

