

## **QUICK START GUIDE**

068021-E410 - AR331, Kubota® D1105-E4B, 3WD

### **Series ES**

**STARTING THE ENGINE**

**SEAT ADJUSTMENT**

**CONTROLS**

**DRIVING**

**MOWING**

**VISUAL DISPLAY**

**Refer to the Safety, Operation and Maintenance Manual for full operating instructions.**



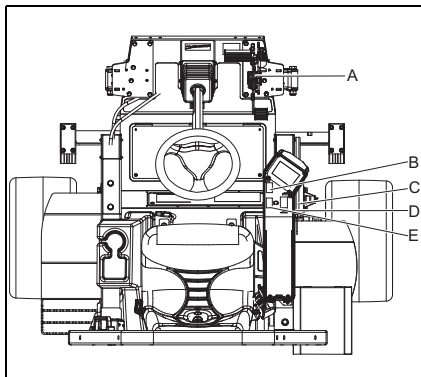
RJL 100 August 2018

Jacobsen reserves the right to make design changes without obligation to make these changes on units previously sold and the information contained in this manual is subject to change without notice.

## STARTING THE ENGINE

### BEFORE YOU OPERATE THIS MACHINE FOR THE FIRST TIME.

- Read the Safety, Operation and Maintenance manual.
- Check and adjust tyre pressure, if necessary, see Safety, Operation and Maintenance manual.
- If necessary, add diesel fuel to tank.
- Check engine oil and if necessary fill.
- Check the radiator coolant and fill if necessary (Water with 50% anti-freeze).



### HOW TO START THE ENGINE

The following procedure is for cold engines.

1. Make sure the forward / reverse pedal (A) is in the neutral position. The cutter switch (B) is off and the throttle (C) is in the centre position.
2. Turn the ignition switch (D) to the right and hold until the engine starts (approximately 5-10 seconds).
3. The glow plugs operate automatically. The time taken for the engine to start, depends on the temperature of the coolant.
4. When the engine starts, release the key immediately. The key returns to the RUN position.
5. If the engine does not start, return the key to the OFF position and try again.

### NOTES

- If the engine does not start after two tries, wait 20 seconds and try again.

### NOTES CONTINUED

- The starter motor must not be run continuously for longer than 30 seconds or the starter motor can fail.
- If the red LED's on the display flash when you start one of the safety interlock switches was not set correctly.

### HOW TO STOP THE ENGINE

1. Disengage drive to the cutting units with the cutter switch (B).
2. Return the forward / reverse pedal (A) to the neutral position.
3. Set the parking brake by pressing the parking brake switch (E).
4. Move the throttle control lever to the SLOW position.
5. Turn the ignition key (D) to the OFF position.

## SEAT ADJUSTMENT

### SEAT (MILSCO V-5300)

To get a good seat position to operate the machine you need to adjust the leg reach, backrest angle and the operator weight.

#### A. FORWARD AND AFT ADJUSTMENT

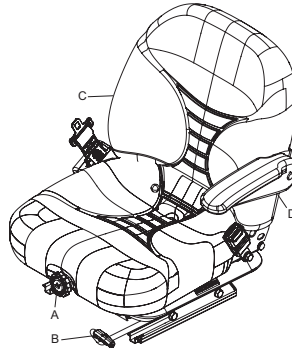
The position of the adjusting lever (A) is on the right hand side of the seat below the seat cushion. When moved up, the seat may be moved backward and forward. When, in the correct position release the lever into one of the preset positions.

#### B. BACKREST ADJUSTMENT

The position of the release lever (B) is on the left hand side of the seat. While, sitting on the seat pull the release lever up to release the backrest. (The backrest is spring loaded to fold forward to the seat Cushion.) Move back to get the correct position. Release the lever to engage in one of the preset positions.

#### C. WEIGHT ADJUSTMENT

The position of the operator weight adjust lever (C) is on the front of the seat. To change the operator weight setting pull the lever out. When sitting on the seat rotate the lever until your weight (kg) is shown in the window.

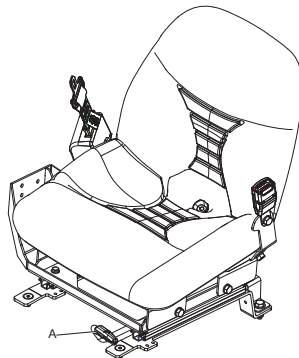


### SEAT (MILSCO V-2853)

To get a good seat position to operate the machine you need to adjust the leg reach.

#### A. FORWARD AND AFT ADJUSTMENT

The position of the adjusting lever (A) is on the right hand side of the seat below the seat cushion. When moved up, the seat may be moved backward and forward. When, in the correct position release the lever into one of the preset positions.



### WARNING

Operator weight adjustment must be set to ensure the OPC operates correctly. The parking brake may automatically be applied if this operation is not carried out correctly.

#### D.ARM REST ADJUSTMENT

Raise the arm rest to the vertical position and rotate the adjustable stop to achieve a comfortable position.

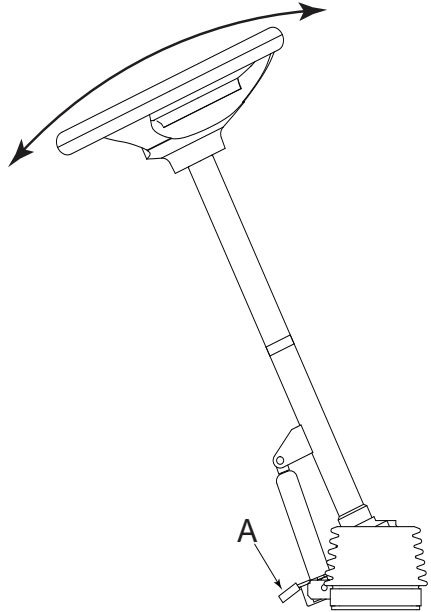
#### NOTES

The seat is fitted with a microswitch to sense the operator in the seat.

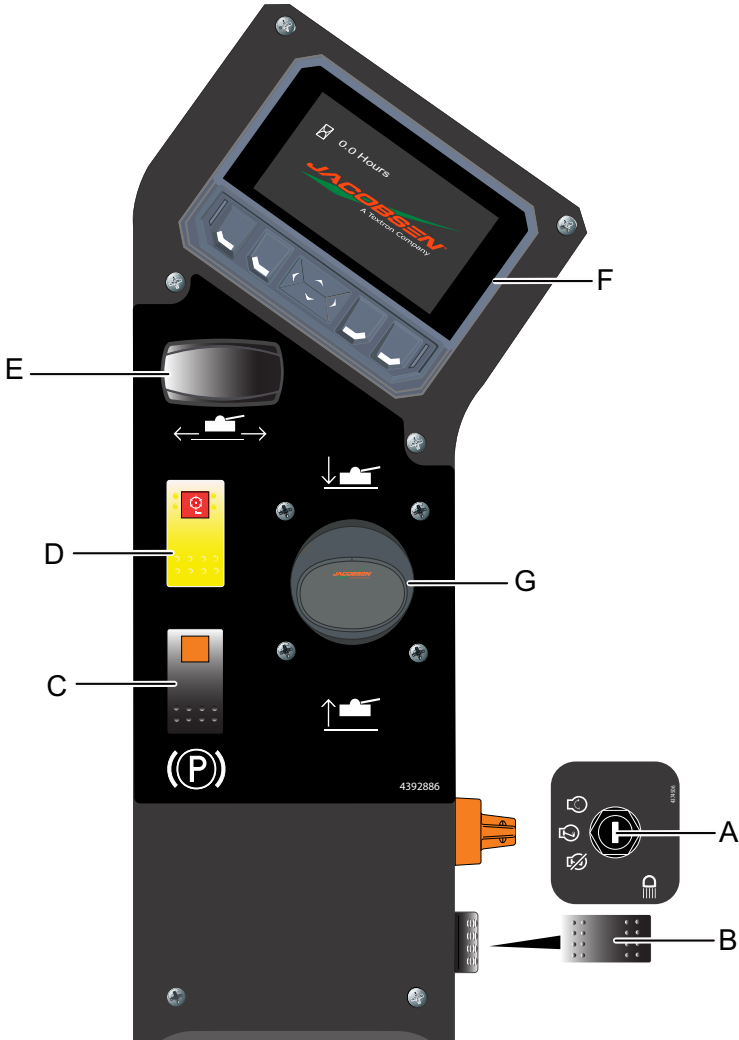
Always wear the seat belt when a ROPS frame is installed.

**STEERING WHEEL ADJUSTMENT****STEERING TILT CONTROL**

When the operators seat is in the correct position to operate the traction pedal comfortably. Push the small foot pedal (A) at the base of the steering column. Tilt the column backward or forward to the correct position. Release the small foot pedal to lock the steering column in position.



# CONTROLS

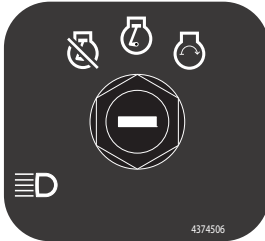


- A. Key Switch
- B. Light Switch (Optional)
- C. Parking Brake Switch
- D. Mow Switch

- E. Side Shift Switch
- F. Visual Display
- G. Lift/Lower joystick

**CONTROLS**

**STARTER KEY SWITCH**



Turn the starter key to the right to start the engine. Release the key to return automatically to the 'on' position for normal operation.

**NOTE:** Before the engine starts, the glow plugs automatically preheat.

**LIGHT SWITCH**



Turns the work lights "On" and "Off".

Push the top of the switch to turn the lights ON.

Push the bottom of the switch to turn the lights OFF.

**PARKING BRAKE SWITCH**



Move the orange button back and press the switch to engage the parking brake.

**PARKING BRAKE SWITCH CONTINUED**

Move the orange button back and press the switch to engage the parking brake.

When the engine is stopped, the parking brake is applied.

To release the parking brake, press the opposite end of the switch.

The parking brake icon is displayed on the multi function gauge screen when engaged.

**DO NOT apply the brake while the machine is in motion.**

**MOW SWITCH**



The mow switch engages the cutter rotation.

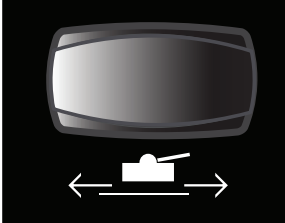
To cut grass, push the front of the "Mow Switch" (Red Lens End) and press the top end of the "Lift/Lower Switch" to lower the cutting units. When engaged the red lens will illuminate.

To stop drive to the cutting units, push the bottom of the rocker switch (Opposite end to the red lens).

**NOTE:** When the cutting units are raised above 400mm from the ground or when the operator leaves the seat, blade rotation is stopped.

## CONTROLS

### SIDE SHIFT SWITCH



The side shift switch shifts all the cutting units to either the left or right.

Push the left side of the switch to shift all three cutting units to the left.

Push the right side of the switch to shift all three cutting units to the right.

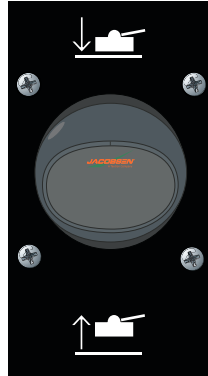
**NOTE. The cutting units MUST be raised into the “Cross Cut” position before using this function.**

### MULTI FUNCTION GAUGE



The visual display is activated when the key switch is turned to the “On” position.

### LIFT/LOWER JOYSTICK



The lift/lower joystick controls the cutting units lift and lower. The lift/lower joystick operates in One-Touch or manual mode. Push the lift/lower joystick to lower the cutting units or pull the lift/lower joystick to lift the cutting units.

The One-Touch or manual mode is set on the display.

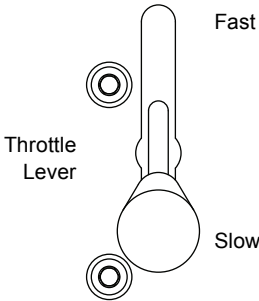
**Manual Mode** - When One-Touch is disabled, the cutting units will lift or lower only while the lift / lower joystick is either pulled or pushed.

**One-Touch Mode** – With One-Touch mode enabled and the Mow Switch on, push and release the lift / lower joystick to lower the cutting units to the ground and start the cutting unit reels.



**CONTROLS**

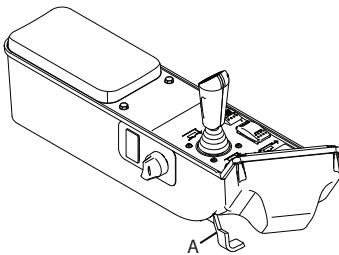
**THROTTLE LEVER**



The throttle lever controls the engine speed. Always operate the mower at full throttle during normal operation.

- Push the throttle lever toward the front of the mower to increase engine speed.
- Pull the throttle lever toward the rear of the mower to decrease engine speed.

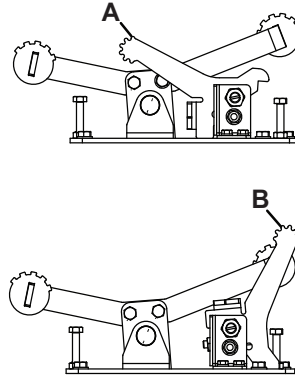
**ARMREST ADJUSTER**



The armrest adjuster (A) is found on the right side under the armrest.

Lift up on the adjuster lever and slide the armrest in the forward or rearward direction. Release the adjuster lever to set the adjustment.

**MOW SPEED LEVER**



The mow speed lever is used to limit the forward speed while mowing.

When you mow, rotate the mow speed stop lever to mow position (A) so the traction pedal contacts the stop when the traction pedal is pressed. The mow speed stop can be adjusted to set specific mow speeds.

To travel at full speed, rotate the mow speed lever to transport position (B).

**FUEL GAUGE**

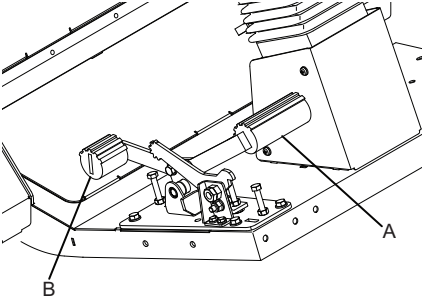


The fuel gauge is located behind the left hand ROPS mount.

Always check daily to ensure that there is sufficient fuel prior to cutting.

## DRIVING

### HOW TO DRIVE



- Move the throttle control lever to the FAST position.
  - Release the brake - Make sure the parking brake is completely released before you move in a forward or reverse direction.
  - Driving forward - Carefully press the top (A) of the Forward / Reverse foot pedal to reach the ground speed that you need.
  - Driving in reverse - Carefully press the bottom (B) of the Forward / Reverse foot pedal to reach the ground speed that you need.
  - To stop - carefully return the Forward / Reverse foot pedal to the neutral position then decrease throttle.
- To stop the vehicle on a slope it may be necessary to apply traction in the opposite direction to which the machine is trying to roll.

### HOW TO STOP

- Disengage the drive to the cutting units with the cutting unit switch.
- Return the forward / reverse foot pedal to the Neutral position.
- Set the parking brake.
- Move the throttle control lever to the SLOW position.
- Turn the ignition key to the OFF position.

## NOTICE

- **Use complete foot to operate both forward and reverse.**
- **Always operate the traction pedal carefully.**
- **Do not move the pedal from forward to reverse quickly.**
- **Allow the machine to come to a stop before you engage reverse drive.**
- **When the parking brake is applied, DO NOT press the traction pedal.**

## MOWING

### HOW TO MOW

- Set the mow / transport speed selector to the mow position, this will set the maximum speed.
- Lower the cutting units with the joystick.
- To engage the cutting mechanism, press the lower half of cutting unit switch, found on the control panel.
- Release the parking brake and drive in a forward direction.

### NOTICE

**Always set the throttle to the maximum engine speed. If you find wet or thick grass difficult to cut, decrease the forward speed to increase hydraulic pressure to the cutting motors.**

# VISUAL DISPLAY

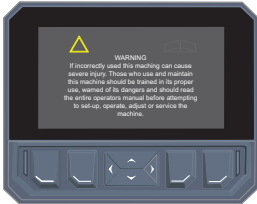
## START UP



When the key switch is turned to the 'Run' position, this screen is shown.

The hour meter will show total hours of engine operation.

## WARNING/SERVICE SCREEN



After the initial start-up screen, the warning screen is displayed for three seconds. If there is no input required, the first screen will become visible.


If a fault condition has occurred during the previous start, a pop up screen will become visible over the top of the warning screen. The operator must confirm the fault before they can move to the first screen.

## FIRST SCREEN



This screen shows the position of the interlock switches, TST when in operation and the coolant temperature.

The engine temperature gauge is on the right side of the display. The colour changes from green to red as the temperature increases.

 <b>WARNING</b>	
<b>The slope monitoring system "TST™" (tilt sensor technology) is a slope angle warning system only. It does not increase the safe working slope beyond that of the declared safe slope.</b>	

## VISUAL DISPLAY

### ENGINE START



When the key switch is turned to the start position and the interlocks are set, this screen is shown.

To start the engine, the parking brake must be applied, the mow switch must be in the off position and the foot pedal must be in the neutral position. When the glow plug timer ends, the engine will start.

The two LED lamps will flash green if all of the above conditions have been met.

### ENGINE WILL NOT START



When the ignition key is turned to the start position and the interlocks are not set, this screen is shown.

- The parking brake is not applied.
- Mow switch is not in the OFF position.
- The foot pedal is not in the neutral position.

**The engine will not start until all the items in the list are correct.**

The two LED lamps will flash red until the above conditions have been corrected as detailed under engine start.

### WARNING SLOPE ANGLE 17°




During work if the machine is driven on a slope greater than 17° the screen will display this warning. This overrides all other information, and will continue until the machine has been driven to an area with a slope of less than 17°.

### WARNING OIL PRESSURE FAULT



When this screen is shown, the engine oil pressure has decreased below the normal level. If this happens during operation, Stop the engine and check the oil level. Top up if necessary. If the problem persists consult your service dealer.

Press the select button  to confirm the fault.

## VISUAL DISPLAY

### WARNING CLEAR RADIATOR SCREENS



When this screen is shown, the engine temperature has risen above normal levels.

Park the machine in a safe area and disengage the cutting units, set engine to idle to allow engine temperature to decrease prior to switching off the engine.

Turn engine off, clean the radiator and screens of all grass and debris.

Press the select button ✓ to confirm the fault.

### WARNING BATTERY FAULT



When this screen is shown, the battery is below 12V for 30 seconds.

Press the select button ✓ below to confirm the fault.

### WARNING CONTROLLER I/O FAULT



When this screen is shown, there is a Controller I/O fault.

Press the select button below ✓ to confirm the fault.

### WARNING CAN TIMEOUT



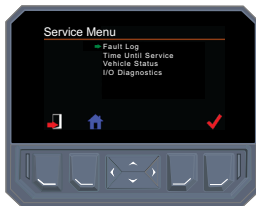
This screen is shown if there is a communications fault between the display and the controller.

Stop the machine as soon as possible and contact your service dealer. Check the armrest and controller harness connections.



Press the select button below ✓ to confirm the fault.





# VISUAL DISPLAY

## SERVICE MENU



Turn the key switch to the “Run” position.

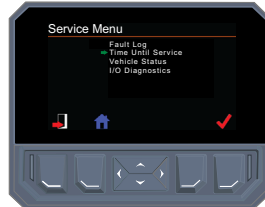
Press the left  or right  arrow key to display the main menu.

Use the up  or down  arrow keys until the green arrow  is next to Language. Press the select button  to select service.





The service menu has the fault log, time until service, vehicle status and I/O diagnostics (input/output diagnostics).

Press the back button  to return to the previous screen.

## TIME UNTIL SERVICE



Turn the key switch to the “Run” position, navigate to the service menu.

Use the up  or down  arrow keys until the green arrow  is next to fault log. Press the select button  to select time until service.

Press the button  to return to previous menu.



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