

PRE-STARTING PROCEDURE

Entering The Loader

Figure 41



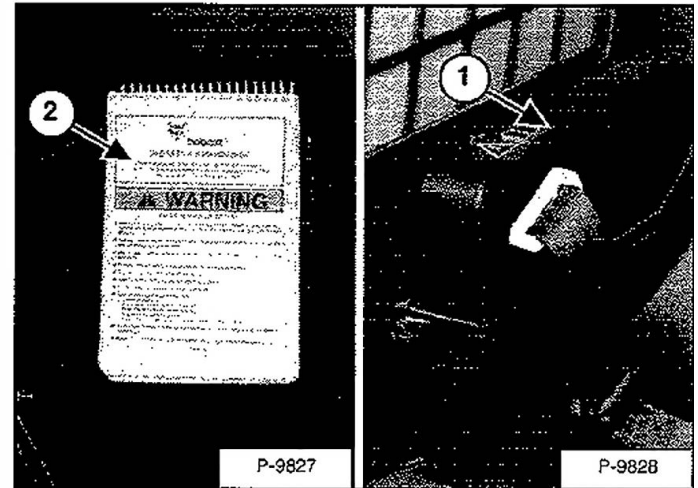
Use the bucket or attachment steps, grab handles, and safety treads (on the loader lift arms and frame) to get on and off the loader, maintaining a 3-point contact at all times [Figure 41]. DO NOT JUMP!

Safety treads are installed on the Bobcat Loader to provide a slip resistant surface for getting on and off the loader.

Keep the safety treads clean and replace them when damaged. Replacement treads are available from your Bobcat dealer.

Operation & Maintenance Manual And Operator's Handbook Locations

Figure 42



Read and understand the Operation & Maintenance Manual (Item 1) and the Operator's Handbook (Item 2) [Figure 42] before operating the loader.

The Operation & Maintenance Manual and other manuals can be kept in a container (Item 1) [Figure 42] provided on the right side of the operator seat.



AVOID INJURY OR DEATH

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decal)s on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

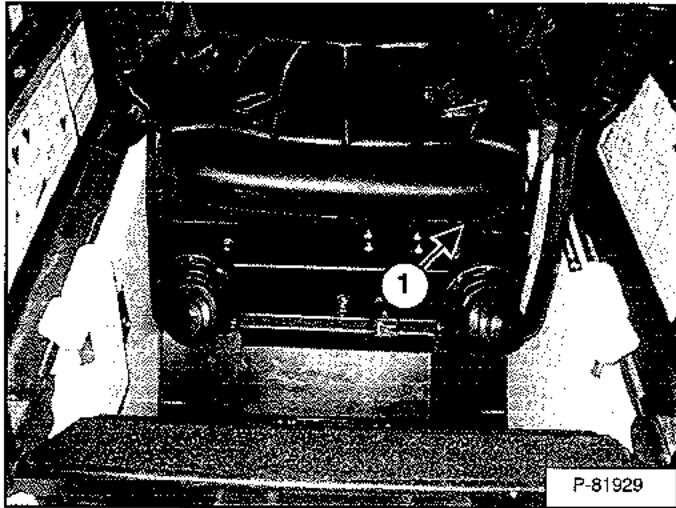
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PRE-STARTING PROCEDURE (CONT'D)

Seat Adjustment

Standard Seat

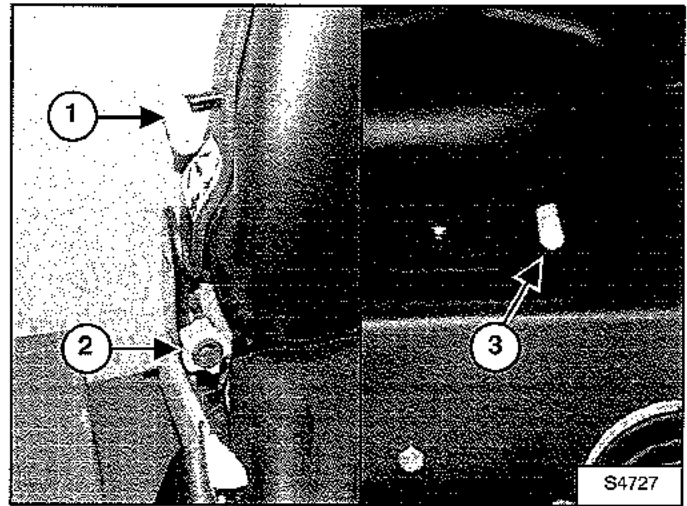
Figure 43



Use the lever (Item 1) [Figure 43] to adjust the position of the seat for comfortable operation of the loader controls.

Adjustable Cushion Seat

Figure 44



Use the lever (Item 1) and knob (Item 2) [Figure 44] to adjust the position of the seat for comfortable operation of the loader controls.

The lever (Item 1) sets the seat cushion for the weight of the operator. The knob (Item 2) [Figure 44] sets the angle of the seat back.

The lever (Item 3) [Figure 44] adjusts the fore / aft position of the seat.

PRE-STARTING PROCEDURE (CONT'D)

Seat Belt Adjustment



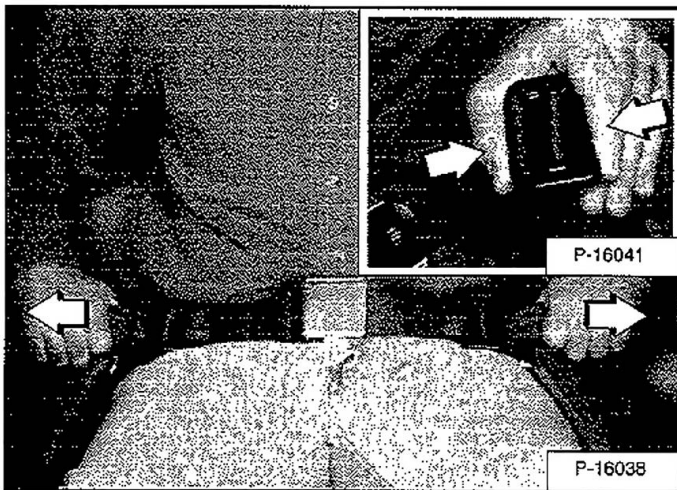
AVOID INJURY OR DEATH

When operating the machine:

- Keep the seat belt fastened snugly.
- The seat bar must be lowered.
- Keep your feet on the pedal controls and hands on steering levers.

W-2046-0108

Figure 45



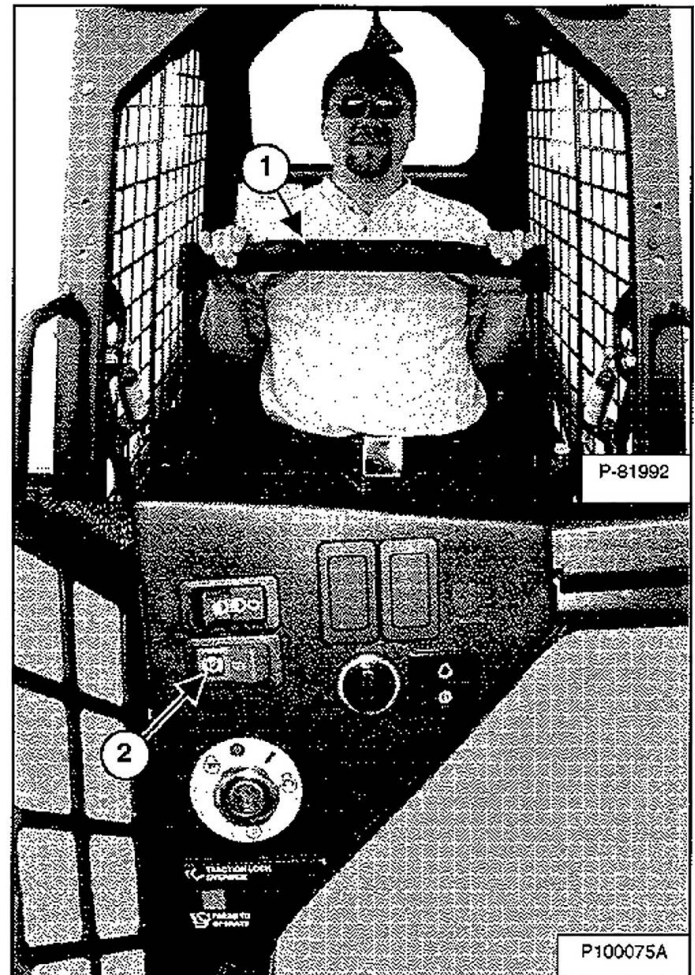
Squeeze both seat belt adjusters to release and lengthen each half of the seat belt [Figure 45].

Fasten the seat belt.

Pull the ends of the belt through the belt adjusters so that the seat belt is snug and the buckle is centered between your hips [Figure 45].

Seat Bar

Figure 46



Lower the seat bar (Item 1) and engage the parking brake (Item 2) [Figure 46].

Put the foot pedals and steering levers in neutral position.

NOTE: Keep your hands on the steering levers and your feet on the foot pedals while operating the loader.



AVOID INJURY OR DEATH

When operating the machine:

- Keep the seat belt fastened snugly.
- The seat bar must be lowered.
- Keep your feet on the pedal controls and hands on steering levers.

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STARTING THE ENGINE

Standard Key Panel

! WARNING

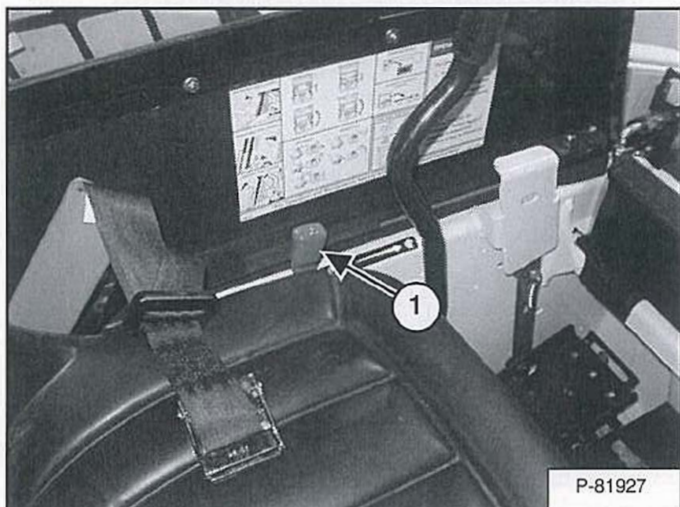
AVOID SERIOUS INJURY OR DEATH

- Engines can have hot parts and hot exhaust gas. Keep flammable material away.
- Do not use machines in atmosphere containing explosive dust or gases.

W-2051-0212

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page 45.)

Figure 47



Move the engine speed control lever (Item 1) [Figure 47] to the mid position.

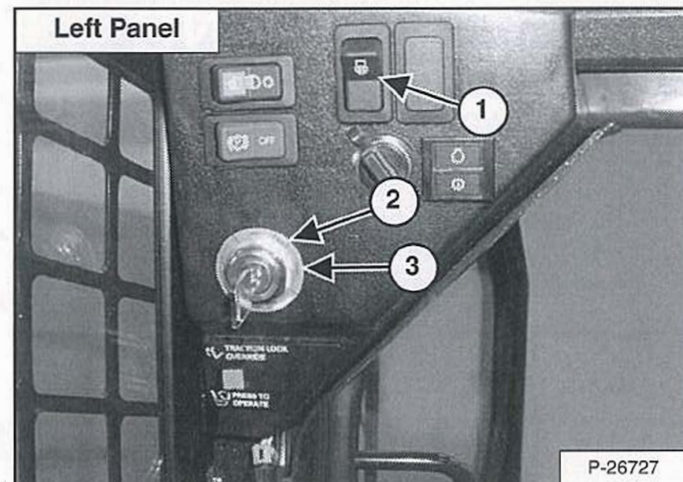
! WARNING

AVOID INJURY OR DEATH

- Fasten seat belt, start and operate only from the operator's seat.
- Never wear loose clothing when working near machine.

W-2135-1108

Figure 48



Earlier Models With Preheat Switch (Item 1)

If the temperature is cold, turn the key switch to the RUN position (Item 2) [Figure 48] but do not start the engine.

Press and hold the top of the preheat switch (Item 1) [Figure 48]. Release the switch to stop engine preheat. A decal in the operator cab and the table below show suggested preheat times.

AMBIENT AIR TEMPERATURE	PREHEAT TIME
21°C and Above (70°F and Above)	None Required
10 - 21°C (50 - 70°F)	5 Seconds
-18 - 10°C (0 - 50°F)	15 Seconds
-18°C and Below (0°F and Below)	25 Seconds

NOTE: You can hold the preheat switch for up to 25 seconds at a time while cranking.

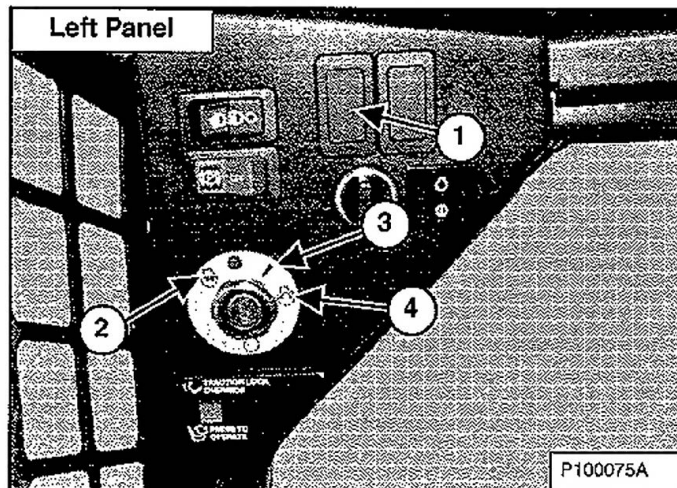
Turn the key switch to the START position (Item 3) [Figure 48] and continue to crank for up to one minute or until the engine starts.

Release the key when the engine starts. It will return to the RUN position (Item 2) [Figure 48].

STARTING THE ENGINE (CONT'D)

Standard Key Panel (Cont'd)

Figure 49



Later Models Without Preheat Switch (Item 1)

If the temperature is cold, turn the key switch to the PREHEAT position (Item 2) [Figure 49].

Release the key switch to stop engine preheat. A decal in the operator cab and the table below show suggested preheat times.

AMBIENT AIR TEMPERATURE	PREHEAT TIME
21°C and Above (70°F and Above)	None Required
10 - 21°C (50 - 70°F)	5 Seconds
-18 - 10°C (0 - 50°F)	15 Seconds
-18°C and Below (0°F and Below)	25 Seconds

Turn the key switch to the START position (Item 4) [Figure 49] and continue to crank for up to one minute or until the engine starts.

Release the key when the engine starts. It will return to the RUN position (Item 3) [Figure 49].

All Models

Figure 50

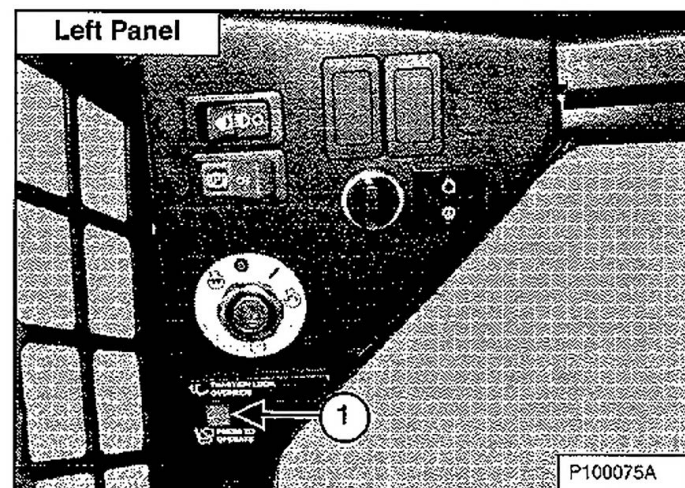
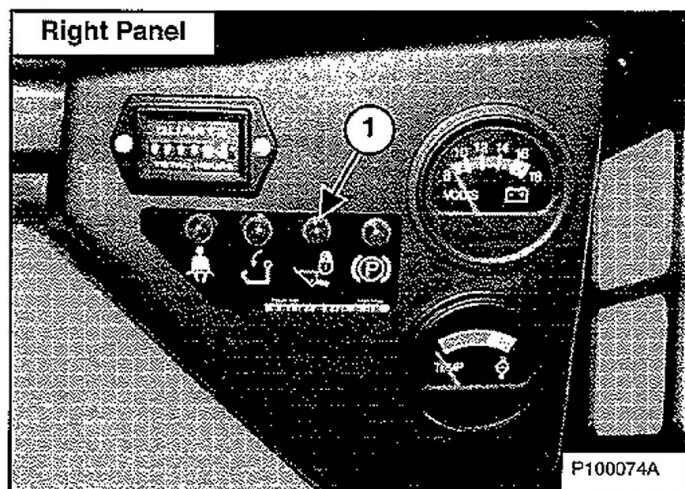


Figure 51



Press the PRESS TO OPERATE LOADER button (Item 1) [Figure 50] to activate the BICS™ and to perform hydraulic and loader functions. The Lift & Tilt Valve light (Item 1) [Figure 51] will be OFF when the BICS™ is active.

WARNING

AVOID INJURY OR DEATH

When an engine is running in an enclosed area, fresh air must be added to avoid concentration of exhaust fumes. If the engine is stationary, vent the exhaust outside. Exhaust fumes contain odorless, invisible gases which can kill without warning.

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STARTING THE ENGINE (CONT'D)

Keyless Start Panel



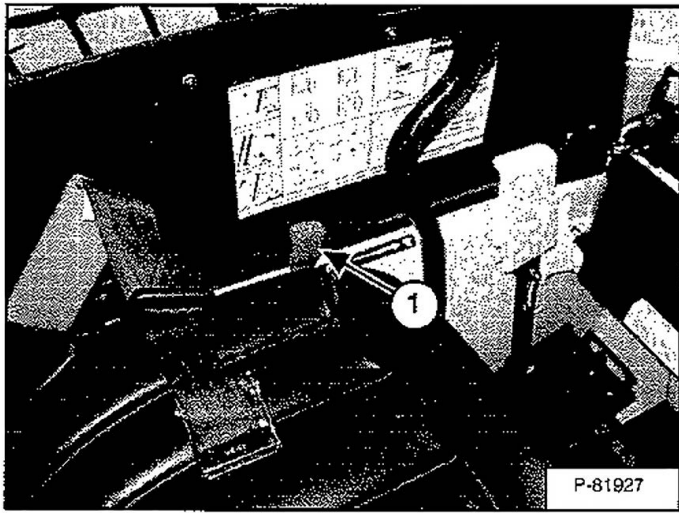
AVOID SERIOUS INJURY OR DEATH

- Engines can have hot parts and hot exhaust gas. Keep flammable material away.
- Do not use machines in atmosphere containing explosive dust or gases.

W-2051-0212

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page 45.)

Figure 52



Move the engine speed control lever (Item 1) [Figure 52] to the mid position.

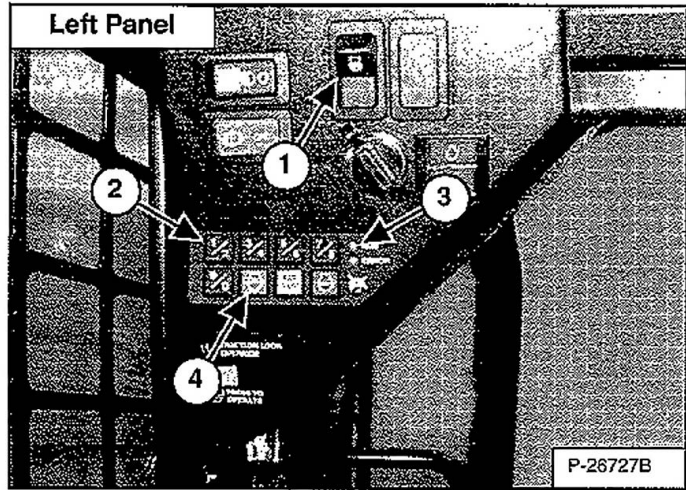


AVOID INJURY OR DEATH

- Fasten seat belt, start and operate only from the operator's seat.
- Never wear loose clothing when working near machine.

W-2135-1108

Figure 53



Earlier Models With Preheat Switch (Item 1)

Enter the password / user code on the keypad (Item 2), the RUN light (Item 3) [Figure 53] will illuminate.

If the temperature is cold, press and hold the top of the preheat switch (Item 1) [Figure 53]. Release the switch to stop engine preheat.

A decal in the operator cab and the table below show suggested preheat times.

AMBIENT AIR TEMPERATURE	PREHEAT TIME
21°C and Above (70°F and Above)	None Required
10 - 21°C (50 - 70°F)	5 Seconds
-18 - 10°C (0 - 50°F)	15 Seconds
-18°C and Below (0°F and Below)	25 Seconds

NOTE: You can hold the preheat switch for up to 25 seconds at a time while cranking.

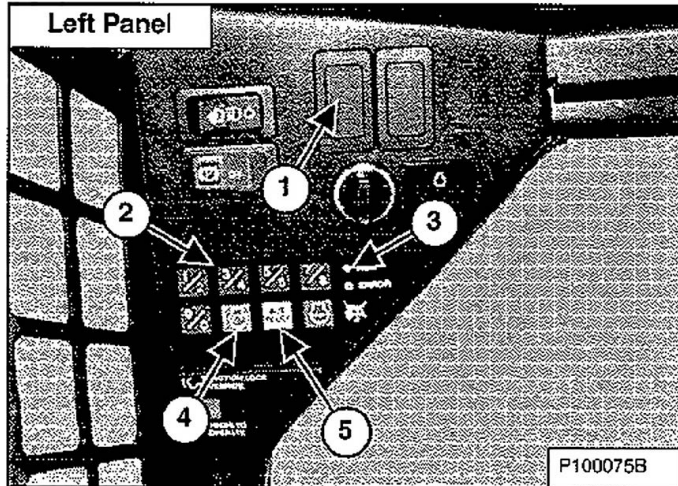
Press the start button (Item 4) [Figure 53] and continue to crank for up to one minute or until the engine starts.

Release the start button when the engine starts.

STARTING THE ENGINE (CONT'D)

Keyless Start Panel (Cont'd)

Figure 54



Later Models Without Preheat Switch (Item 1)

Enter the password / user code on the keypad (Item 2), the RUN light (Item 3) [Figure 54] will illuminate.

If the temperature is cold, press and hold the AUX. RELIEF / Preheat button (Item 5) [Figure 54]. Release the button to stop engine preheat.

A decal in the operator cab and the table below show suggested preheat times.

AMBIENT AIR TEMPERATURE	PREHEAT TIME
21°C and Above (70°F and Above)	None Required
10 - 21°C (50 - 70°F)	5 Seconds
-18 - 10°C (0 - 50°F)	15 Seconds
-18°C and Below (0°F and Below)	25 Seconds

NOTE: You can hold the AUX. RELIEF / Preheat button for up to 25 seconds at a time while cranking.

Press the start button (Item 4) [Figure 54] and continue to crank for up to one minute or until the engine starts.

Release the start button when the engine starts.

All Models

Figure 55

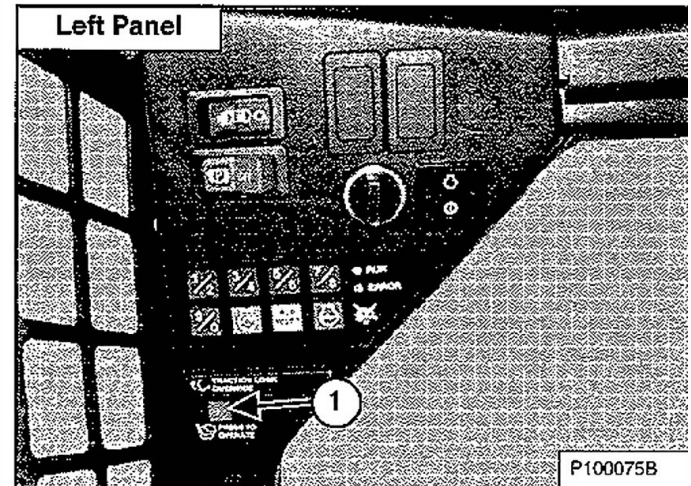
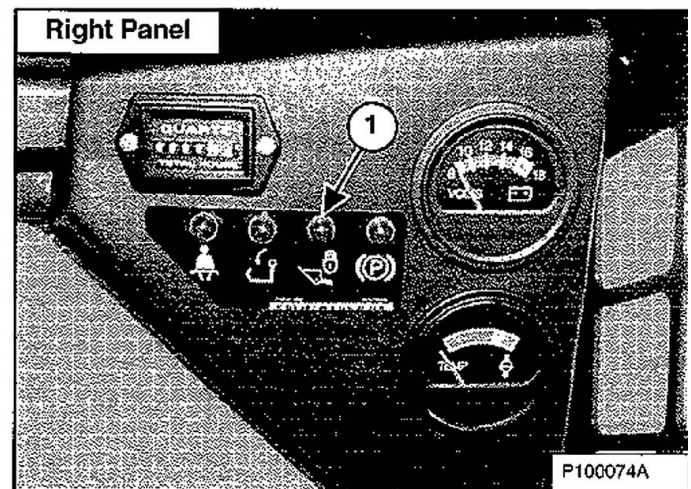


Figure 56



Press the PRESS TO OPERATE LOADER button (Item 1) [Figure 55] to activate the BICS™ and to perform hydraulic and loader functions. The Lift & Tilt Valve light (Item 1) [Figure 56] will be OFF when the BICS™ is active.



WARNING

AVOID INJURY OR DEATH

When an engine is running in an enclosed area, fresh air must be added to avoid concentration of exhaust fumes. If the engine is stationary, vent the exhaust outside. Exhaust fumes contain odorless, invisible gases which can kill without warning.

W-2050-0807

STARTING THE ENGINE (CONT'D)

Cold Temperature Starting

! WARNING

AVOID INJURY OR DEATH

Do not use ether with glow plug (preheat) systems. Explosion can result which can cause injury, death, or severe engine damage.

W-2071-0907

If the temperature is below freezing perform the following to make starting the engine easier:

- Replace the engine oil with the correct type and viscosity for the anticipated starting temperature (See Engine Oil Chart on Page 88.)
- Make sure the battery is fully charged.
- Install an engine heater, available from your local Bobcat dealer.

Warming The Hydraulic / Hydrostatic System

IMPORTANT

When the temperature is below -30°C (-20°F), hydrostatic oil must be warmed before starting. The hydrostatic system will not get enough oil at low temperatures and will be damaged. Park the machine in an area where the temperature will be above -18°C (0°F) if possible.

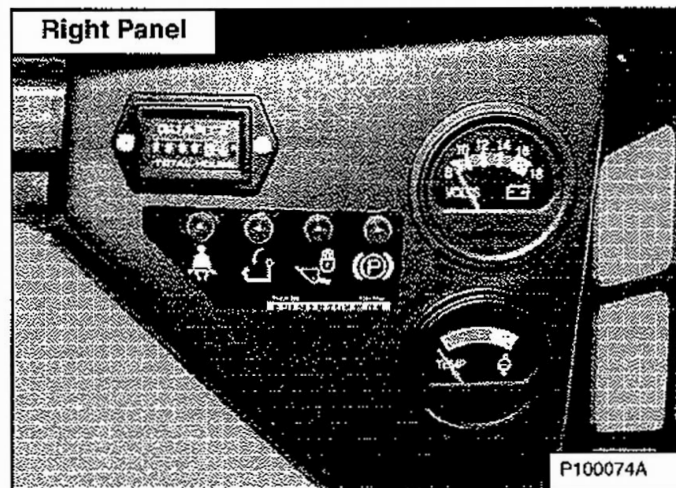
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Let the engine run for a minimum of 5 minutes to warm the engine and hydrostatic transmission fluid before operating the loader.

MONITORING THE DISPLAY PANELS

Right Panel

Figure 57



Frequently monitor the temperature gauge and BICS™ lights [Figure 57]. All BICS™ lights must be off to operate the loader. (See BOBCAT INTERLOCK CONTROL SYSTEM (BICS™) on Page 72.)

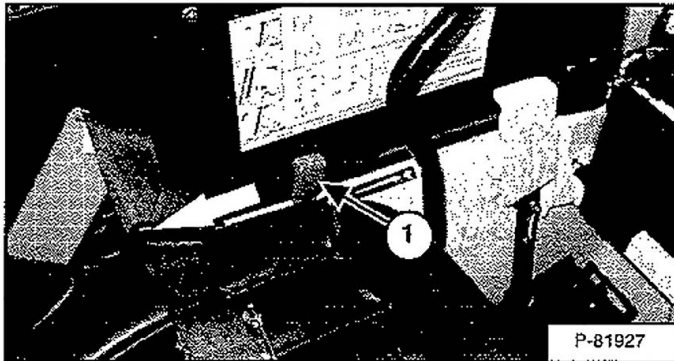
STOPPING THE ENGINE AND LEAVING THE LOADER

Procedure

Stop the Bobcat Loader on level ground.

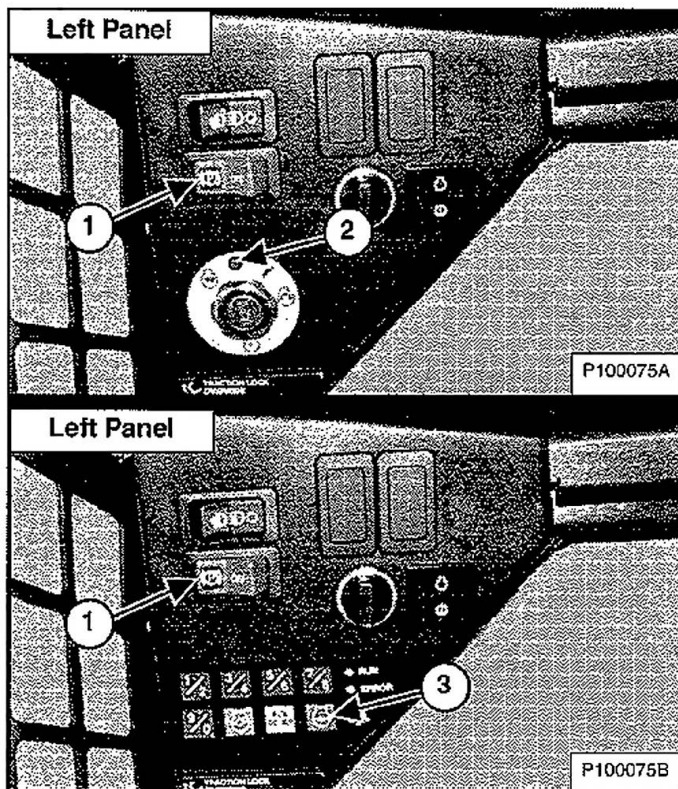
Lower the lift arms fully and put the attachment flat on the ground.

Figure 58



Pull the engine speed control lever (Item 1) [Figure 58] fully backward to decrease the engine speed.

Figure 59



Turn the key switch to the OFF position (Item 2) or press the STOP button (Item 3) [Figure 59].

Engage the parking brake by pressing the left side of the parking brake switch (Item 1) [Figure 59].

Raise the seat bar and make sure the lift and tilt functions are deactivated. Move the pedals until they both lock.

Move auxiliary hydraulic control lever out of detent position.

Unbuckle the seat belt.

Remove the key from the switch to prevent operation of the loader by unauthorized personnel. (Standard Key Panel only.)

Figure 60



Exit the loader using grab handles, safety tread and steps (maintaining a 3-point contact) [Figure 60].

! WARNING

Before you leave the operator's seat:

- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise the seat bar, move pedals until both lock.
- Move auxiliary hydraulic control lever out of detent position.

W-2164-0108