

# OPERATING INSTRUCTIONS

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**OPERATING  
INSTRUCTIONS**



**Bobcat®**

## HYDRAULIC CONTROLS

### Auxiliary Hydraulics Operation (VARIABLE FLOW)

Figure 1

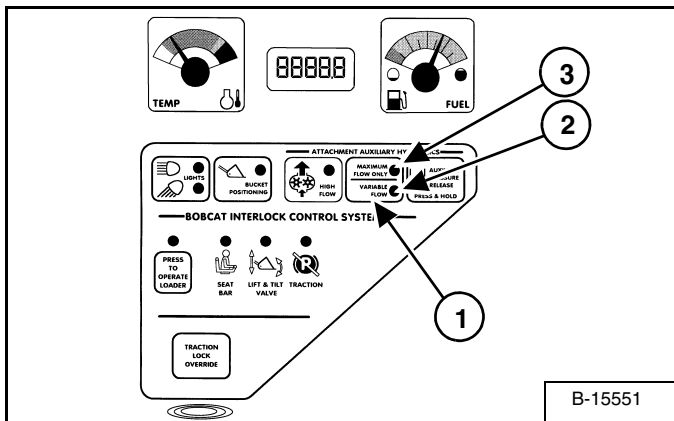
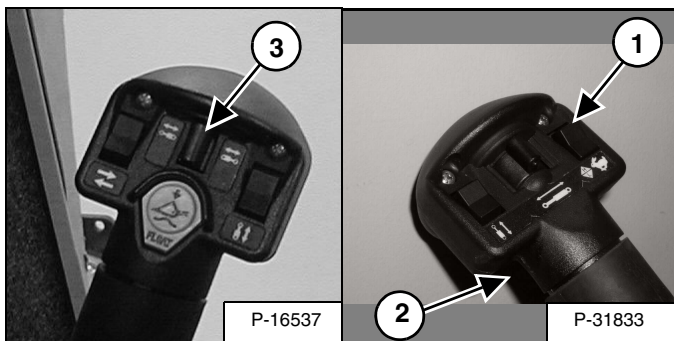


Figure 2



*VARIABLE FLOW* allows for slow-to-fast movement of auxiliary functions. If you move the auxiliary switch (1) [Figure 2] half-way, the auxiliary functions move at approximately one-half speed.

Press the auxiliary hydraulics button (1) [Figure 1] once.

The light (2) [Figure 1] will be ON.

To disengage, press the auxiliary hydraulics button (1) [Figure 2] a third time.

Both lights (2 and 3) [Figure 1] will be OFF.

**NOTE:** When the operator is seated and raises the seat bar, the Auxiliary Hydraulic System (Front and Rear) will deactivate.

### Auxiliary Hydraulics Operation (MAXIMUM FLOW ONLY)

*MAXIMUM FLOW ONLY* allows for fast movement only. If you move the auxiliary switch (1 or 3) [Figure 2], the auxiliary functions move at fast speed; release the switch to stop auxiliary functions.

Press the auxiliary hydraulics button (1) [Figure 1] a second time.

The light (3) [Figure 1] will be ON.

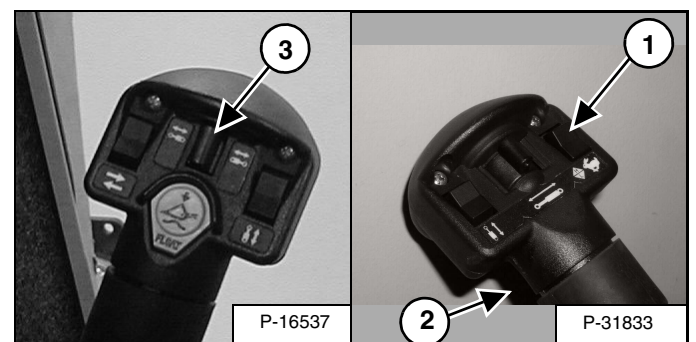
To disengage, press the auxiliary hydraulics button (1) [Figure 1] a third time.

Both lights (2 and 3) [Figure 1] will be OFF.

**NOTE:** When the operator is seated and raises the seat bar, the Auxiliary Hydraulic System (Front and Rear) will deactivate.

### FRONT Auxiliary Hydraulics Operation (VARIABLE FLOW)

Figure 3



Press the auxiliary hydraulics button for *VARIABLE FLOW* (See Auxiliary Hydraulics Operation (*VARIABLE FLOW*) on Page 3).

Push the switch (1) [Figure 3] to the right or left to change the fluid flow direction of the front quick couplers. (EXAMPLE: Open and close grapple teeth.)

### FRONT Auxiliary Hydraulics Operation (MAXIMUM FLOW)

Press the auxiliary hydraulics button for *MAXIMUM FLOW*.

Push the switch (1) [Figure 3] to the right or left to change the fluid flow direction of the front quick couplers. (EXAMPLE: Open and close grapple teeth.)

Press again to disengage.

## HYDRAULIC CONTROLS (CONT'D)

### FRONT Auxiliary Hydraulics Operation (CONTINUOUS FLOW)

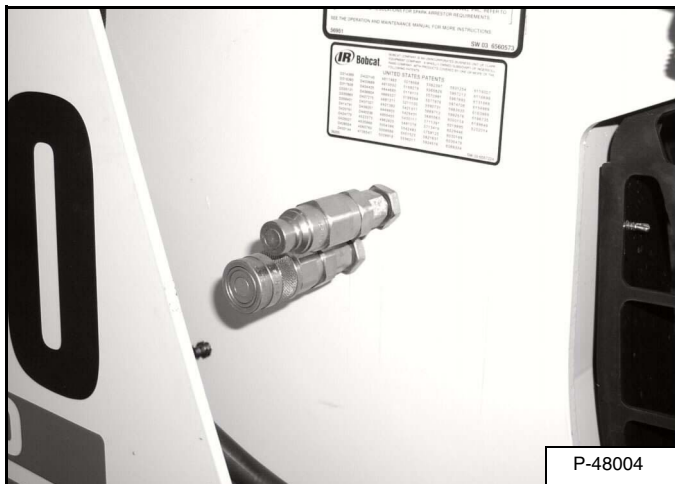
After selecting VARIABLE or MAXIMUM FLOW, press the front switch (2) [Figure 3] to give the front quick couplers a constant flow of fluid with the female coupler being pressurized. (EXAMPLE: Operate a backhoe.)

**REVERSE CONTINUOUS FLOW** - To set reverse flow (male coupler pressurized), select VARIABLE or MAXIMUM FLOW, then, while holding the auxiliary switch (1) [Figure 3] to the left, press the front switch (2) [Figure 3]. Reverse flow can be used only with augers, power rakes, sweepers, tillers, and vibratory rollers.

To release from continuous operation, press the front switch (2) [Figure 3] a second time.

### REAR Auxiliary Hydraulics Operation (If Equipped)

Figure 4



The switches on the left hand lever control the rear auxiliary hydraulics.

Press the auxiliary hydraulics button for MAXIMUM FLOW (See Auxiliary Hydraulics Operation (MAXIMUM FLOW ONLY) on Page 3).

Push the switch (3) [Figure 3] to the right or left to change the fluid flow direction to rear quick couplers [Figure 4]. (EXAMPLE: Raise and lower rear stabilizers.)

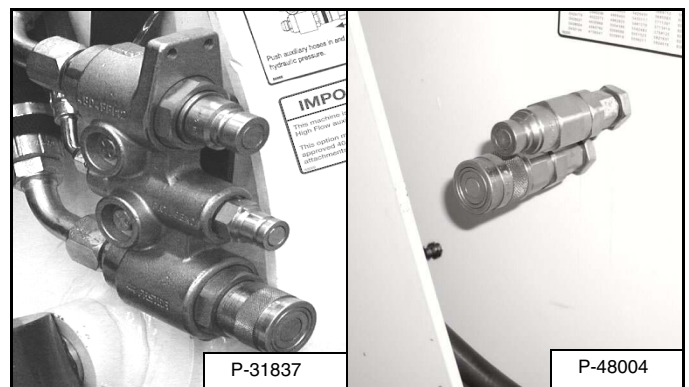
## Quick Couplers



**Diesel fuel or hydraulic fluid under pressure can penetrate skin or eyes, causing serious injury or death. Fluid leaks under pressure may not be visible. Use a piece of cardboard or wood to find leaks. Do not use your bare hand. Wear safety goggles. If fluid enters skin or eyes, get immediate medical attention from a physician familiar with this injury.**

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Figure 5



**To Connect:** Remove dirt or debris from the surface of both the male and female couplers, and from the outside diameter of the male coupler. Visually check the couplers for corroding, cracking, damage or excessive wear. If any of these conditions exist, the coupler(s) [Figure 5] must be replaced.

Install the male coupler into the female coupler. Full connection is made when the ball release sleeve slides forward on the female coupler.

**To Disconnect:** Hold the male coupler. Retract the sleeve on the female coupler until the couplers disconnect.

## HYDRAULIC CONTROLS (CONT'D)

### Relieve Hydraulic Pressure (Loader and Attachment)



#### AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

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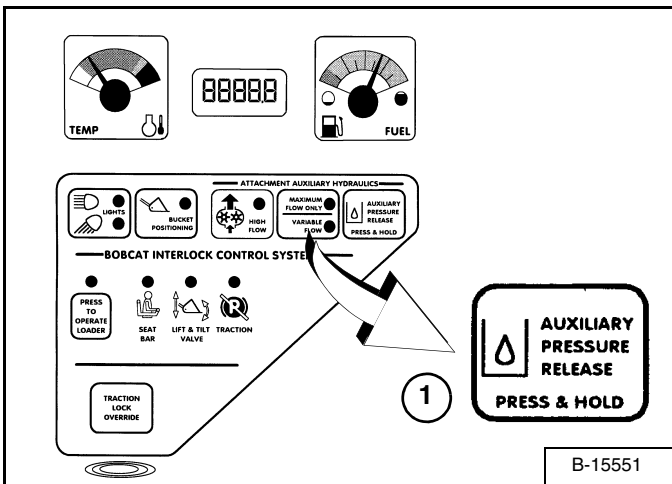
#### Front Auxiliary Quick Couplers

*When Connecting:* Push the quick couplers tightly together and hold for five seconds; the pressure is automatically released as the couplers are installed.

*When Disconnecting:* Push the quick couplers tightly together and hold for five seconds; then retract the sleeve until the couplers disconnect.

#### Rear Auxiliary Quick Couplers

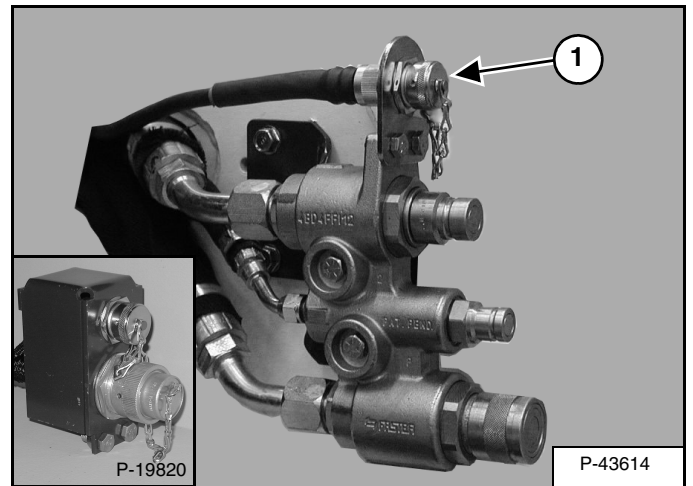
Figure 6



Press the AUXILIARY PRESSURE RELEASE Button (1) [Figure 6]. Hold it for two seconds after the engine comes to a complete stop. The pressure will be released.

## Attachment Control Device (ACD) (If Equipped)

Figure 7

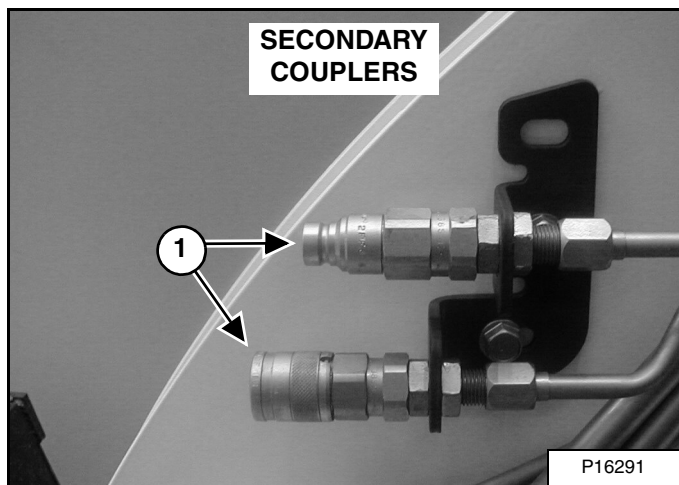


You will need the Dual-Connector (7-pin/14-pin) kit (1) [Figure 7] to operate early model attachments. See your Bobcat® Loader dealer.

## HYDRAULIC CONTROLS (CONT'D)

### Secondary Front Auxiliary Hydraulics (If Equipped)

Figure 8



The secondary front auxiliary quick couplers (1) [Figure 8] are available as a Field Installed Accessory. These are used when there is a need for additional auxiliary hydraulics (EXAMPLE: Planer side shift).

Connect the attachment to the secondary auxiliary hydraulics (1) [Figure 8].

Set the Auxiliary Hydraulic Button for *Variable Flow* or *Maximum Flow Only*. (See Auxiliary Hydraulics Operation (VARIABLE FLOW) on Page 3) or (See Auxiliary Hydraulics Operation (MAXIMUM FLOW ONLY) on Page 3).

Figure 9



Push switch (1) [Figure 9] to the right or left to change fluid flow direction. (EXAMPLE: Side shift on the Planer.)

**NOTE:** The secondary front auxiliary hydraulics and the rear auxiliary hydraulics operate from the same auxiliary section of the control valve. To operate only one of these auxiliary functions, disconnect the other.

## PRE-STARTING PROCEDURES

### Entering The Loader

Figure 10



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 [Figure 10]. 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 safety treads clean and replace when damaged. Replacement treads are available from your Bobcat dealer.

Read and understand the Operation & Maintenance Manual and the Operator's Handbook (1) [Figure 10] before operating the loader.

The Operation & Maintenance Manual and other manuals can be kept in a container (2) [Figure 10] provided behind the operator seat.

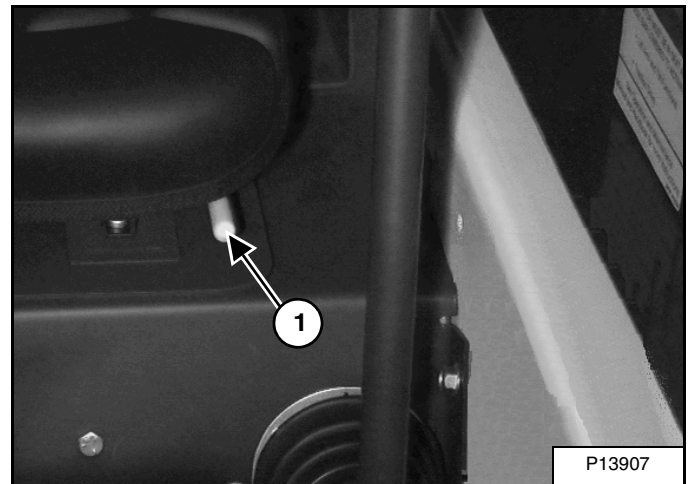
## WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) 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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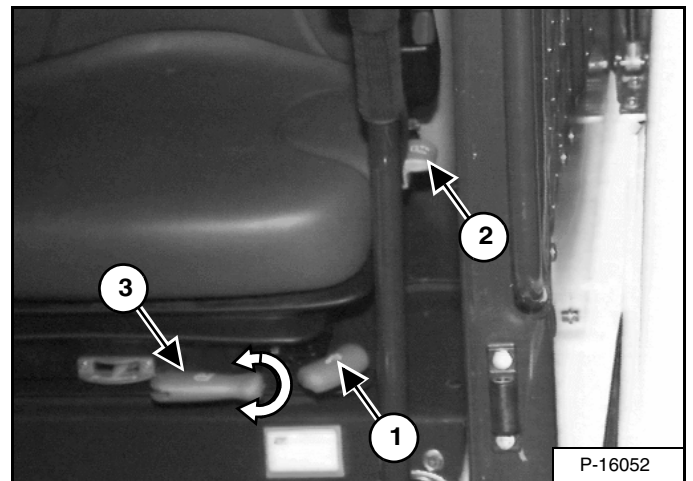
## Seat Adjustment

Figure 11



Release the seat lever (1) [Figure 11] and adjust the seat position for comfortable operation of the loader controls.

Figure 12



*Suspension Seat - (Option)* Release the lever (1) [Figure 12] to adjust the seat distance from the levers and footrests.

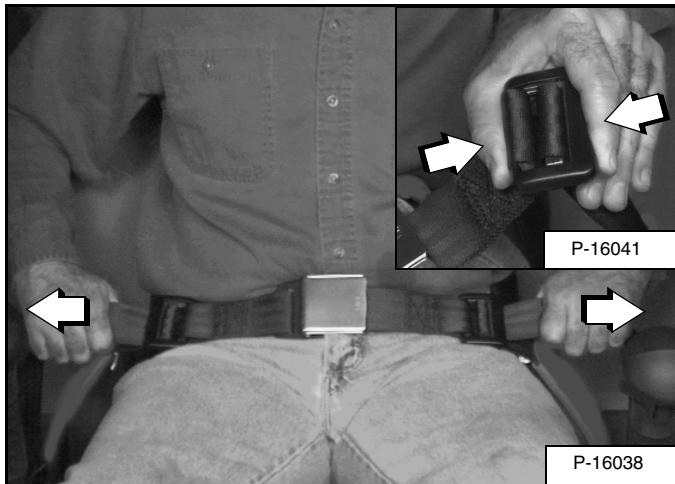
Release the lever (2) [Figure 12] to adjust the angle of the seat back.

Turn the lever (3) [Figure 12] to adjust the seat cushion for weight of the operator.

## PRE-STARTING PROCEDURES (CONT'D)

### Seat Belt Adjustment

Figure 13

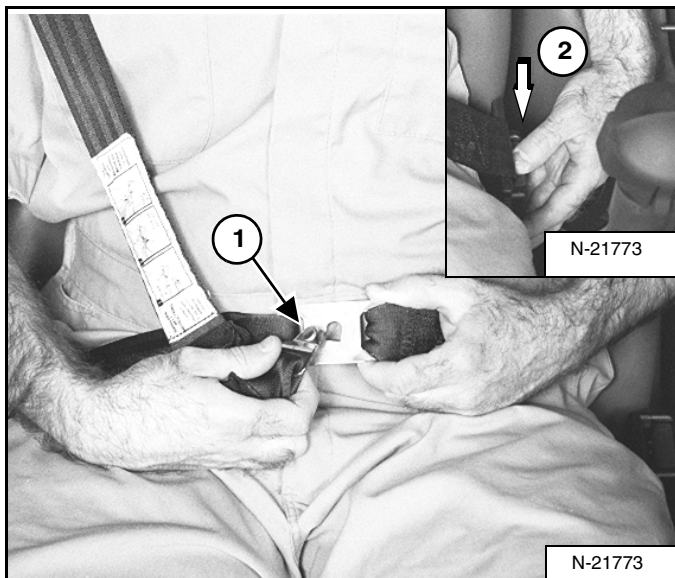


Squeeze both seat belt adjusters to release and lengthen each half of the seat belt [Figure 13].

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 13].

Figure 14



**3-Point Restraint - (Option)** Connect the shoulder belt to the lap belt (1) [Figure 14]. Pull the lap belt across to the left side of the seat (2) [Figure 14] and fasten.

The shoulder belt must be positioned over your right shoulder and lap belt over your lower hips [Figure 14].

### Seat Bar

Figure 15



Lower the seat bar and engage the parking brake (1) [Figure 15].

Put the foot pedals or hand controls in neutral position.

**NOTE: Keep your hands on the steering levers and your feet on the foot pedals (or footrests) while operating the loader.**

**! WARNING**

**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 or footrests and hands on steering levers.

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## STARTING THE ENGINE

### Key Switch



#### AVOID INJURY OR DEATH

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

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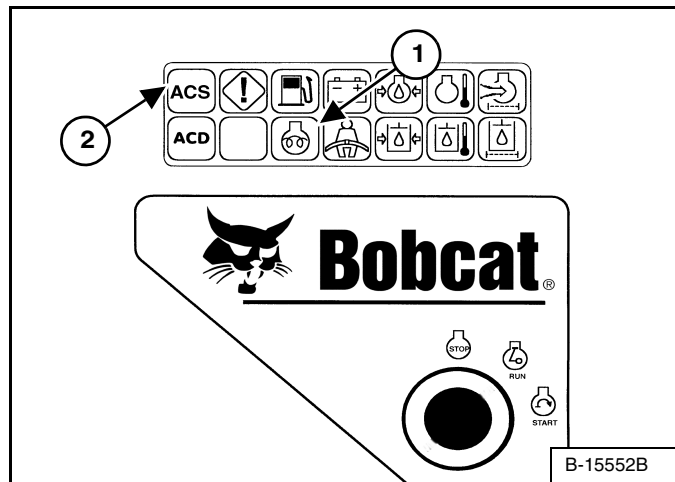
Perform the PRE-STARTING PROCEDURE, (See PRE-STARTING PROCEDURES on Page 7).

Figure 16



Set the engine speed control to the 1/2 speed position [Figure 16].

Figure 17



Turn the key switch to RUN [Figure 17]. The indicator lights on the right instrument panel [Figure 17] will come ON briefly and the Instrument Panel / monitoring system will do a self test.

If the temperature is cold, the intake air heater will automatically cycle. The Icon light (1) [Figure 17] will be ON and the cycle time remaining will show in the hour meter.

When the Icon light goes OFF, turn the key switch to START [Figure 17].

**NOTE:** Make sure both hand controls (ACS) or Joysticks (SJC) are in the neutral position before starting the engine. Do not move the levers or joysticks from the neutral position when turning the key to RUN or START [Figure 17].

If controls are moved:

- a. The neutral position for the hydraulic valve spool and hand control may not be correctly calibrated. This can result in slight movement of the lift or tilt hydraulic cylinders when the hand control lever is returned to the neutral position after start-up.

OR

- b. ACS indicator light (2) [Figure 17] on right instrument panel will be ON.

If either condition occurs, return key to STOP. Put the controls in neutral position and re-start engine.

Release the key when the engine starts. It will return to the RUN position.