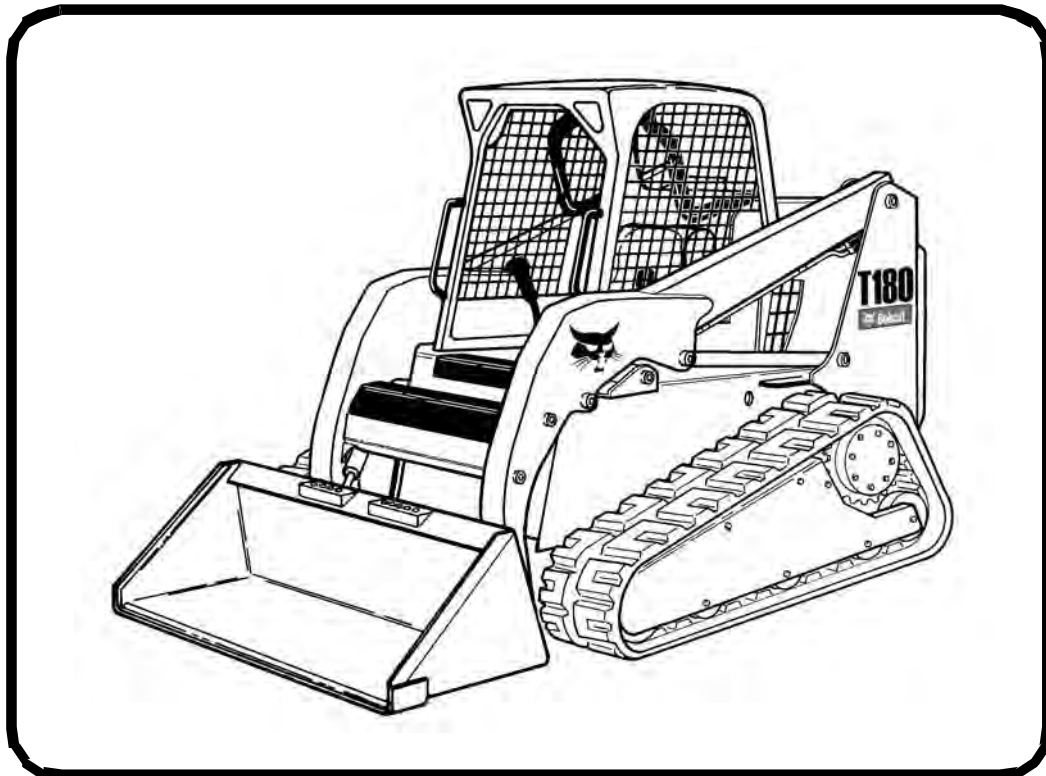




Bobcat®

Operation & Maintenance Manual T180 Compact Track Loader

S/N 531460001 & Above
S/N 531560001 & Above



**EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)**

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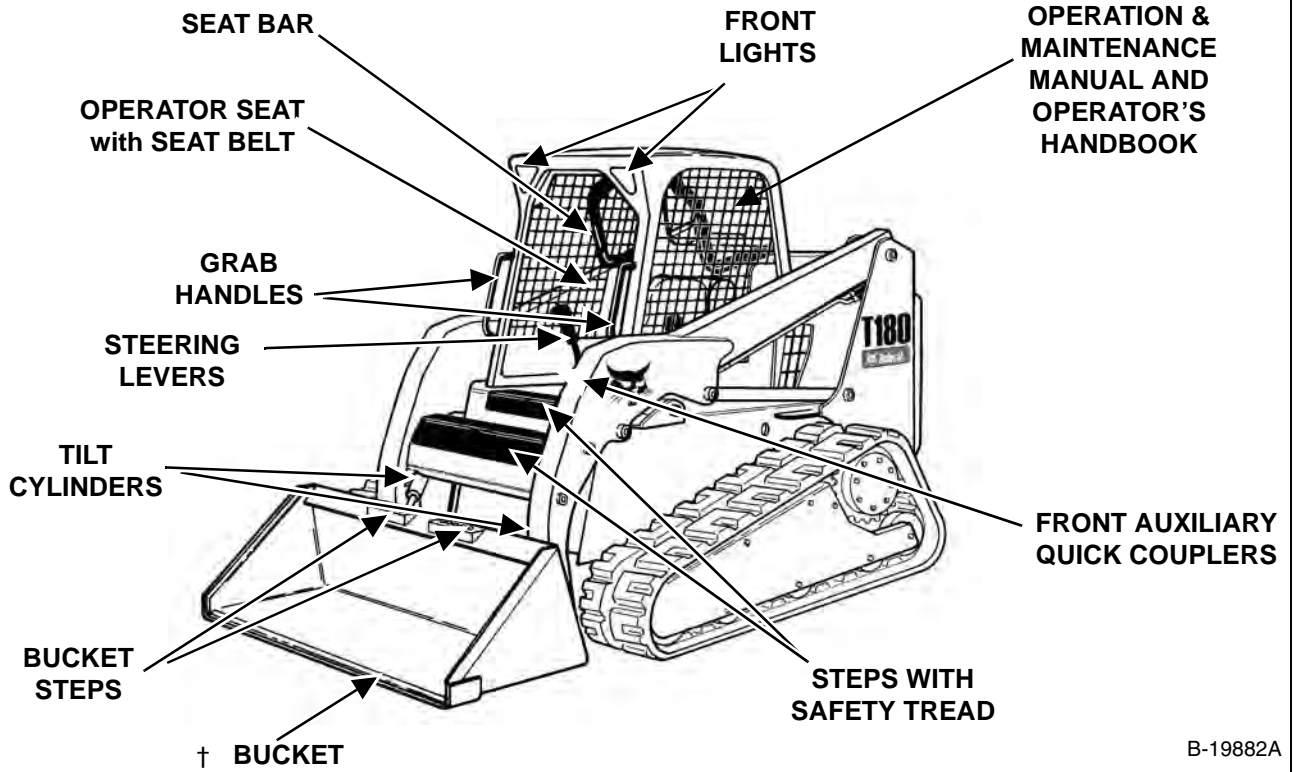
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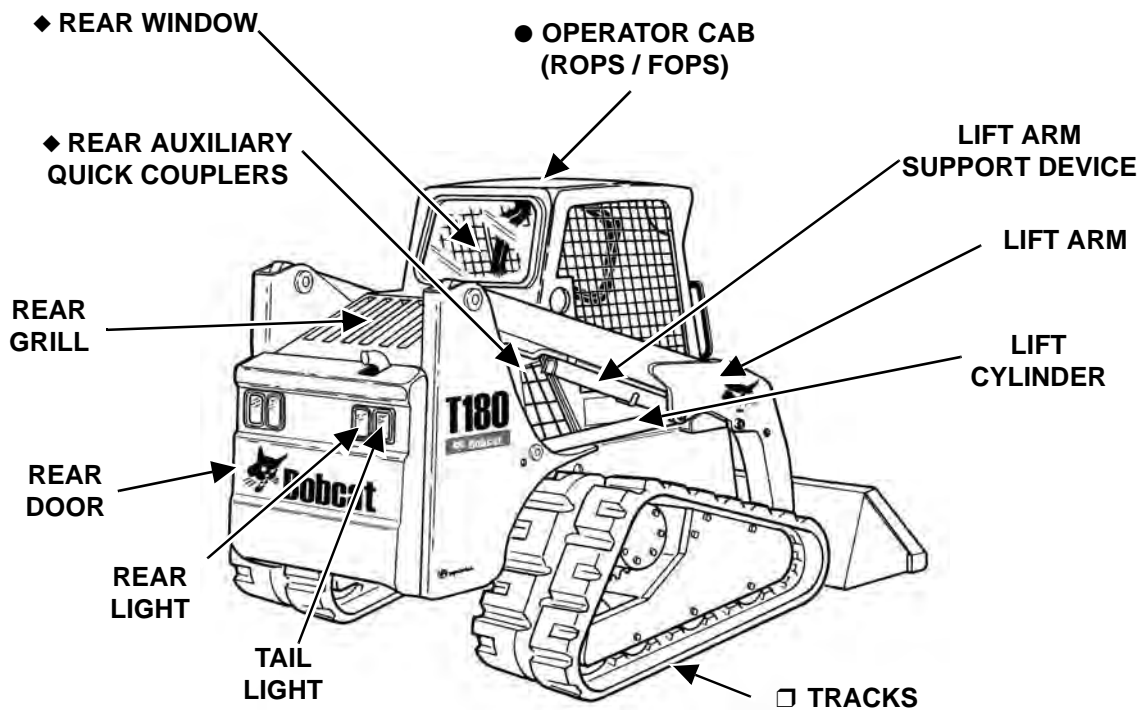
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LOADER IDENTIFICATION



B-19882A



B-19883A

◆ Optional or Field Accessory (Not Standard Equipment)

□ TRACKS - Optional tracks are available.

† Bucket - Several different buckets and other attachments are available for this machine.

● ROPS, FOPS - Roll Over Protective Structure, per ISO 3471, and Falling Object Protective Structure per ISO 3449, Level I. Level II is available.



Bobcat®

INSTRUMENT PANEL IDENTIFICATION (CONT'D)

Left Panel (Cont'd)

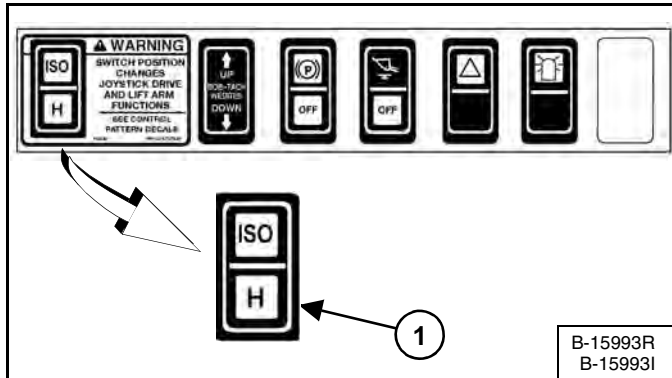
REF. NO.	DESCRIPTION	FUNCTION / OPERATION
1	ENGINE TEMPERATURE GAUGE	Shows the engine coolant temperature.
2	LEFT DIRECTION INDICATOR (Option)	Indicates left turn signals are ON.
3	GENERAL WARNING	Malfunction with one or more machine functions. (See Service Codes*)
4	TWO-SPEED	Not used.
5	ENGINE MALFUNCTION	Engine malfunction or failure. (See Service Codes*)
6	ENGINE COOLANT TEMPERATURE	Engine coolant temperature high or sensor error.
7	DISPLAY SCREEN	Displays information. (See Display Screen on Page OI-8.)
8	SEAT BELT	Instructs operator to fasten seat belt. Remains lit for 45 seconds.
9	SEAT BAR	The light comes on when the seat bar is UP.
10	LIFT & TILT VALVE	The light comes on when the lift and tilt functions cannot be operated.
11	PARKING BRAKE	The light comes on when the loader cannot be driven.
12	RIGHT DIRECTION INDICATOR (Option)	Indicates right turn signals are ON.
13	SHOULDER BELT	Not used.
14	HYDRAULIC SYSTEM MALFUNCTION	Hydraulic system malfunction or failure. (See Service Codes*)
15	FUEL	Fuel level low or sensor error.
16	FUEL GAUGE	Shows the amount of fuel in the tank.
17	LIGHTS	Press once for FRONT work lights and REAR taillights. (Left green LED will light.) Press a second time to add REAR work lights. (Left and right green LEDs will light.) Press a third time to turn all lights off. (Left and right green LEDs will be off.) Press and hold five seconds to display software version in display screen.
18	HIGH-FLOW (Option)	Press once to engage the HIGH-FLOW auxiliary hydraulics. (Left green LED will light.) Press a second time to disengage.
19	AUXILIARY HYDRAULICS	Press once to engage the auxiliary hydraulics. (Left green LED will light.) Press a second time to disengage.
20	INFORMATION	Cycles through (after each button press): <ul style="list-style-type: none"> • Hourmeter (On start up) • Engine RPM • Battery voltage • Maintenance clock • Service codes* Press and hold for seven seconds to reset the maintenance clock.
21	TRACTION LOCK OVERRIDE	Functions only when the seat bar is raised and the engine is running. Press once to unlock the brakes. Allows you to use the steering levers or joystick(s) to move the loader forward or backward when using the backhoe attachment or for service. (See TRACTION LOCK OVERRIDE on Page OI-13.) Press a second time to lock the brakes.
22	PRESS TO OPERATE LOADER	Press to activate the BICS™ System when the seat bar is down and operator is seated in operating position. Button will light. Press and hold three seconds to engage Steering Drift Compensation. (See STEERING DRIFT COMPENSATION on Page OI-19.)
23	ALARM	The alarm beeps when Error, Warning or Shutdown conditions exist.

* See SYSTEM SETUP & ANALYSIS for Service Code description. (See DIAGNOSTIC SERVICE CODES on Page SA-3.)

DRIVING AND STEERING THE LOADER (CONT'D)

Operation (SJC) in 'H' Control Pattern

Figure OI-27



Select the 'H' control pattern by pressing the bottom of the switch (Item 1) [Figure OI-27].



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 foot rests and hands on control levers.

W-2399-0501

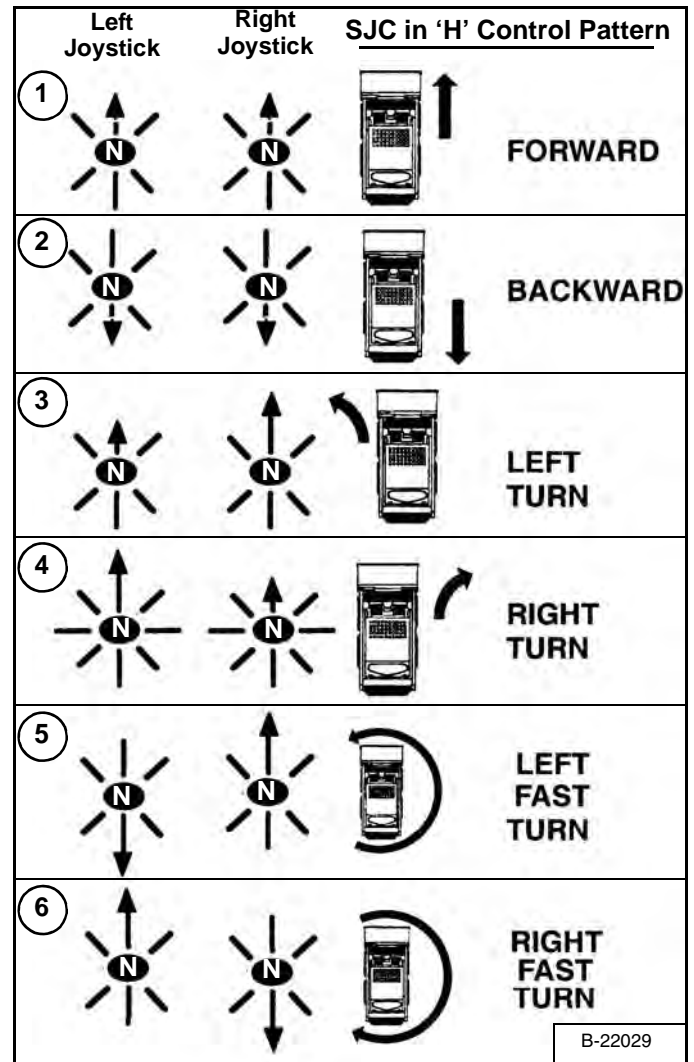
Figure OI-28



Both joysticks control drive and steering and are located on the left and right side in front of the seat (Item 1) [Figure OI-28].

Move the joysticks smoothly. Avoid sudden starting and stopping.

Figure OI-29



Joystick Functions (Drive and Steering) [Figure OI-29]

1. **Forward Travel** - Move both joysticks forward.
2. **Backward Travel** - Move both joysticks backward.
3. **Forward Left Turn** - Move the right joystick farther forward than the left joystick.
4. **Forward Right Turn** - Move the left joystick farther forward than the right joystick.
5. **Left Fast Turn** - Move the left joystick backward and the right joystick forward.
6. **Right Fast Turn** - Move the left joystick forward and the right joystick backward.

STOPPING THE LOADER

Using The Control Levers Or Joysticks

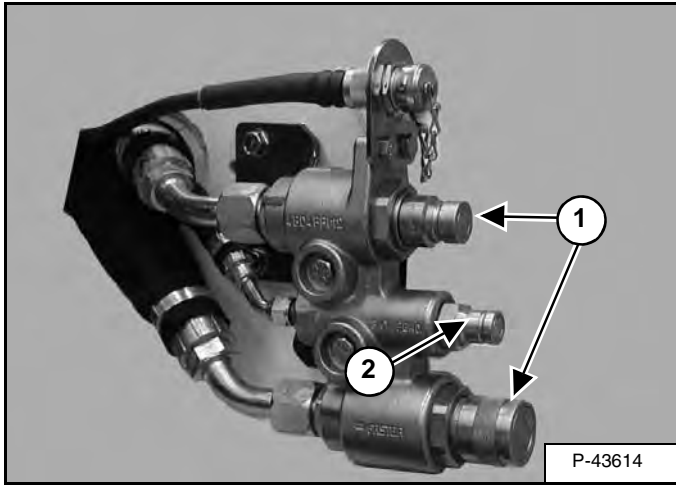
When the steering levers or joysticks are moved to the neutral position, the hydrostatic transmission will act as a *service brake* to stop the loader.

HYDRAULIC CONTROLS (CONT'D)

High-Flow Hydraulics Operation

This machine may be equipped with High-Flow Hydraulics.

Figure OI-55

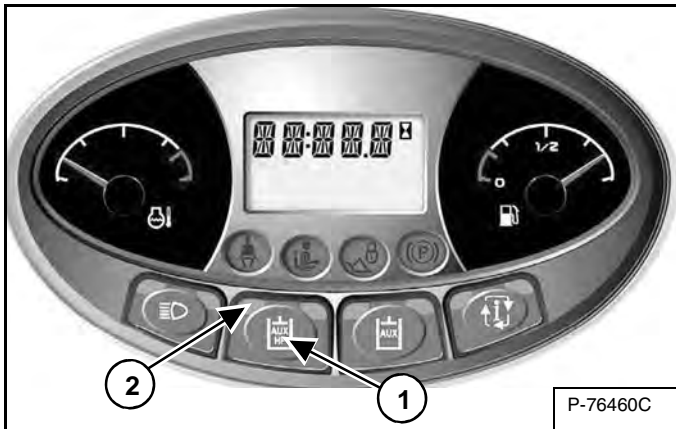


The High-Flow function provides additional flow to the system to operate an attachment which requires more hydraulic flow. (EXAMPLE: Planer)

Connect the attachment to the quick couplers (Item 1) [Figure OI-55].

Some attachments may have a case drain which needs to be connected to the small quick coupler (Item 2) [Figure OI-55].

Figure OI-56



Press the HIGH FLOW button (Item 1) [Figure OI-56].

The light (Item 2) [Figure OI-56] will be ON.

To disengage, press the HIGH FLOW button (Item 1) [Figure OI-56] again.

The light (Item 2) [Figure OI-56] will be OFF.

Quick Couplers

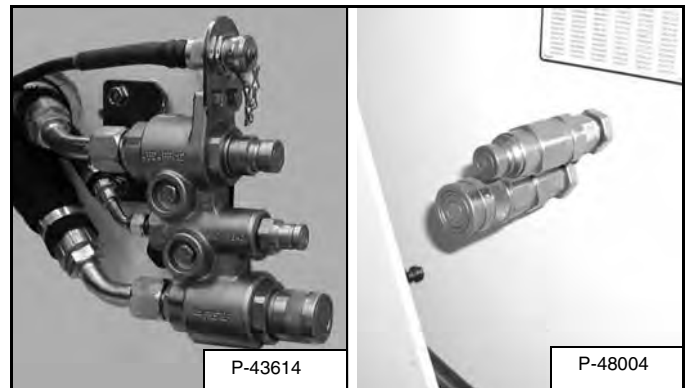
! WARNING

AVOID INJURY OR DEATH

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.

W-2072-0807

Figure OI-57



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 OI-57] 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.

! WARNING

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.

W-2220-0396

STARTING THE ENGINE (CONT'D)

Deluxe Instrumentation Panel



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.

W-2051-1086

Perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page OI-32.)

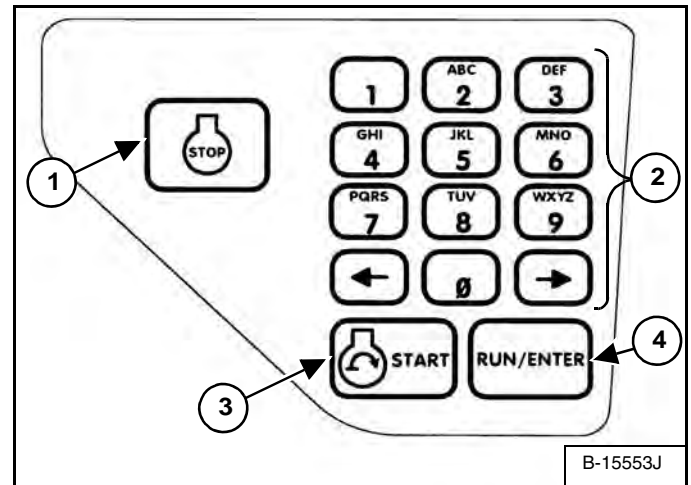
Figure OI-77



Set the engine speed control to the idle position [Figure OI-77]

NOTE: Loaders with a Deluxe Instrumentation Panel have a permanent, randomly generated Master Password set at the factory. Your loader will be assigned an Owner Password. Your dealer will provide you with this password. Change the password to one that you will easily remember to prevent unauthorized use of your loader. (See Changing The Owner Password on Page SA-10.) Keep your password in a safe place for future needs.

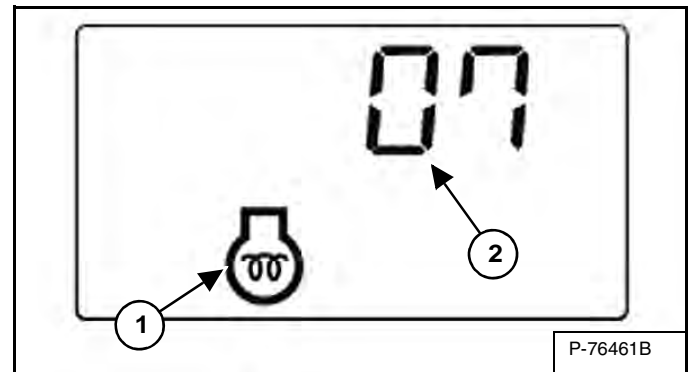
Figure OI-78



Press the RUN / ENTER button (Item 4) [Figure OI-78].

Use the numeric keypad (Item 2) to enter the password, then press the RUN / ENTER button (Item 4) [Figure OI-78].

Figure OI-79



If the temperature is cold, the air intake heater will automatically cycle. The engine preheat icon (Item 1) will be ON and the cycle time remaining will show in the data display (Item 2) [Figure OI-79].

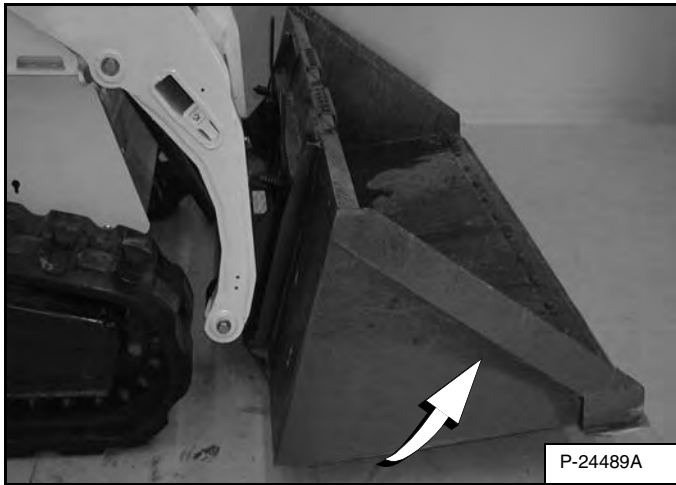
When the engine preheat icon goes OFF, press the START button (Item 3) [Figure OI-78]. Release the button when the engine starts.

ATTACHMENTS (CONT'D)

Installing And Removing The Attachment (Power Bob-Tach) (Cont'd)

Installing (Cont'd)

Figure OI-100

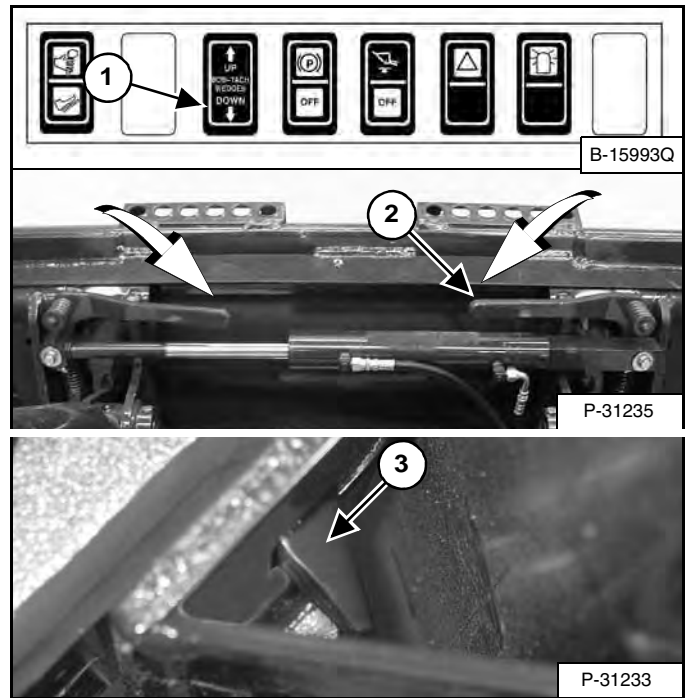


Tilt the Bob-Tach backward until the cutting edge of the bucket (or other attachment) is slightly off the ground [Figure OI-100].

Push and hold BOB-TACH “WEDGES UP” switch (Item 1) [Figure OI-98] (Front Panel) to make sure the levers are all the way up.

NOTE: The Power Bob-Tach system has continuous pressurized hydraulic oil to keep the wedges in the engaged position and prevent attachment disengagement. Because the wedges can slowly lower, the operator may need to reactivate the switch (WEDGES UP) to be sure both wedges are fully raised before installing the attachment.

Figure OI-101



Push and hold BOB-TACH “WEDGES DOWN” switch (Front Panel) (Item 1) until levers are fully engaged in the locked position (Item 2) [Figure OI-101] (wedges fully engaged).

The wedges (Item 3) [Figure OI-101] must extend through the holes in the mounting frame of the bucket (or other attachment), securely fastening the bucket to the Bob-Tach.

WARNING

Bob-Tach wedges must extend through the holes in attachment. Lever(s) must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

W-2102-0497

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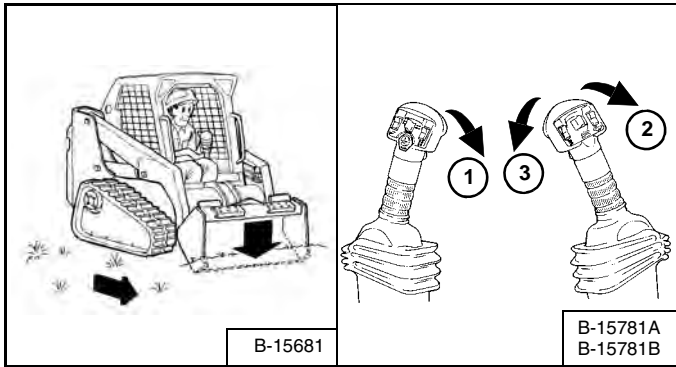
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OPERATING PROCEDURE (CONT'D)

Digging And Filling A Hole (ACS - Handles, SJC - 'H' Pattern)

Digging

Figure OI-124

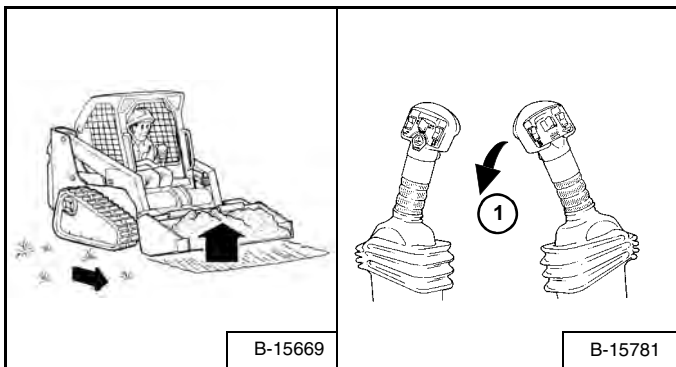


Lower the lift arms all the way (Item 1) [Figure OI-124]. Tilt the bucket forward (Item 2) [Figure OI-124] until the cutting edge of the bucket is on the ground.

Drive forward slowly and continue to tilt the bucket down (Item 2) [Figure OI-124] until it enters the ground.

Tilt the bucket backward a small amount (Item 3) [Figure OI-124] to increase traction and keep an even digging depth. Continue to drive forward until the bucket is full. When the ground is hard, raise and lower the cutting edge (Items 2 and 3) [Figure OI-124] while driving forward.

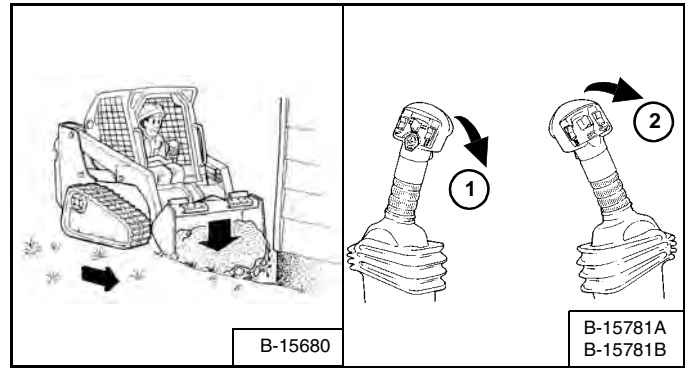
Figure OI-125



Tilt the bucket backward (Item 1) [Figure OI-125] as far as it will go when the bucket is full.

Filling

Figure OI-126



Lower the lift arms (Item 1) [Figure OI-126] and put the cutting edge of the bucket on the ground (Item 2) [Figure OI-126]. Drive forward to the edge of the hole to push the material into the hole.

Tilt the bucket forward (Item 2) [Figure OI-126] as soon as it is past the edge of the hole.

If necessary, raise the lift arms to empty the bucket.

MAINTENANCE SAFETY



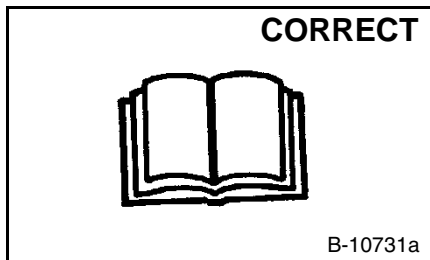
WARNING

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.

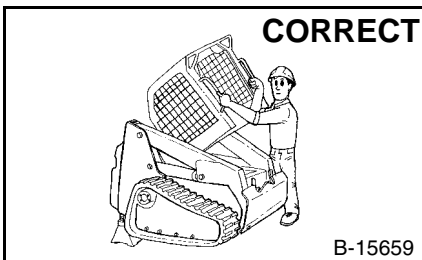
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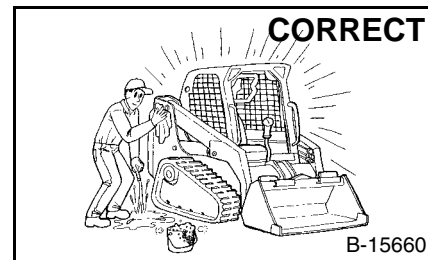
Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



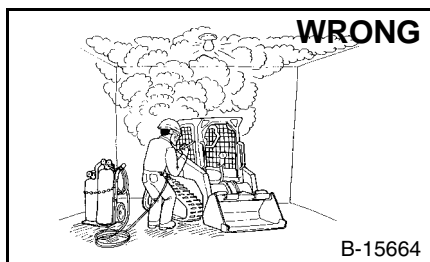
⚠ Never service the Bobcat Compact Track Loader without instructions.



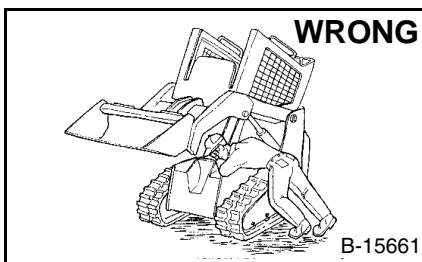
⚠ Use the correct procedure to lift or lower operator cab.



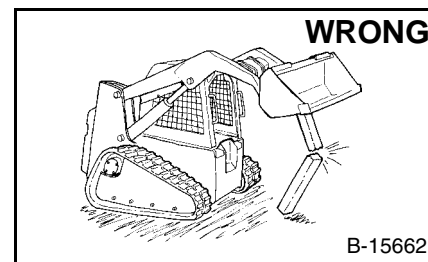
⚠ Cleaning and maintenance are required daily.



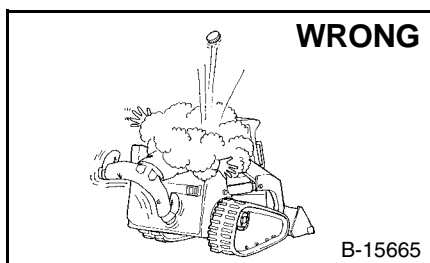
⚠ Have good ventilation when welding or grinding painted parts.
 ⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.
 ⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.



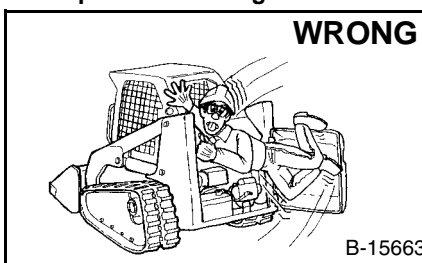
⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop. Do not go under lift arms when raised unless supported by an approved lift arm support device. Replace it if damaged.



⚠ Never work on loader with lift arms up unless lift arms are held by an approved lift arm support device. Replace if damaged.
 ⚠ Never modify equipment or add attachments not approved by Bobcat Company.



⚠ Stop, cool and clean engine of flammable materials before checking fluids.
 ⚠ Never service or adjust loader with the engine running unless instructed to do so in the manual.
 ⚠ Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.
 ⚠ Never fill fuel tank with engine running, while smoking or when near open flame.



⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.
 ⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.
 ⚠ Keep rear door closed except for service. Close and latch door before operating the loader.



⚠ Lead-acid batteries produce flammable and explosive gases.
 ⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.
 ⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL**. Always use genuine Bobcat replacement parts. The Service Safety Training Course is available from your Bobcat dealer.

MSW09-0805

OPERATOR CAB (CONT'D)

Raising (Cont'd)

Figure PM-14



Lift on the grab handles and bottom of the operator cab [Figure PM-14] slowly until the cab is all the way up and the latching mechanism engages.

Lowering

Always stop the engine before raising or lowering the cab.

NOTE: Always use the grab handles to lower the cab.

Figure PM-15



Pull down on the bottom of the operator cab until it stops at the latching mechanism [Figure PM-15].

NOTE: The weight of the cab increases when equipped with options and accessories such as cab door, heater, air conditioning, etc. In these cases, the cab may need to be raised slightly from the latch to be able to release the latch.



NOTE: On Advanced Control System (ACS) equipped machines, the steering levers could contact the cab frame while raising or lowering the operator cab. The engine **MUST** be stopped before raising or lowering the cab.

Support the cab and release the latching mechanism (Inset) [Figure PM-15]. Remove your hand from the latch mechanism when the cab is past the latch stop. Use both hands to lower the cab all the way down.

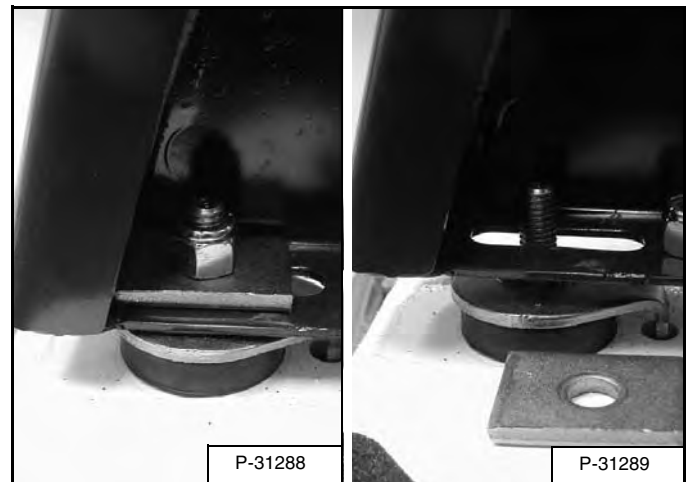


PINCH POINT CAN CAUSE INJURY

Remove your hand from the latching mechanism when the cab is past the latch stop.

W-2469-0803

Figure PM-16



Install the plates and nuts (both sides) [Figure PM-16].

Tighten the nuts to 40-45 ft.-lb. (54-61 N•m) torque.

ENGINE COOLING SYSTEM

Check the cooling system every day to prevent overheating, loss of performance or engine damage.

WARNING

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

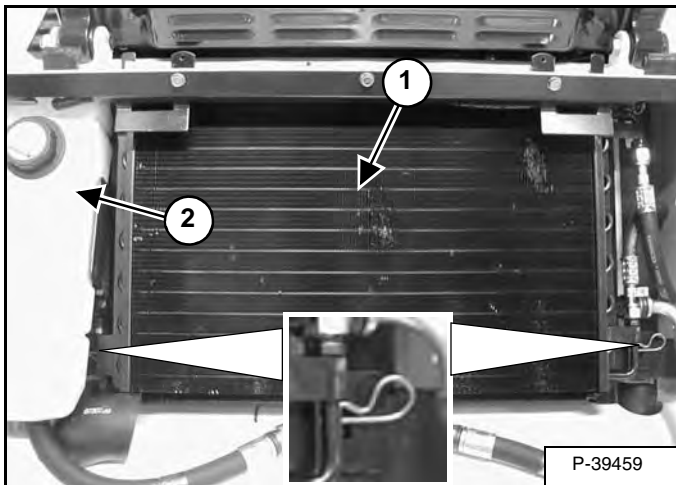
W-2019-0907

Cleaning

Open the rear door. (See REAR DOOR on Page PM-17.)

Remove the rear grill. (See REAR GRILL on Page PM-17.)

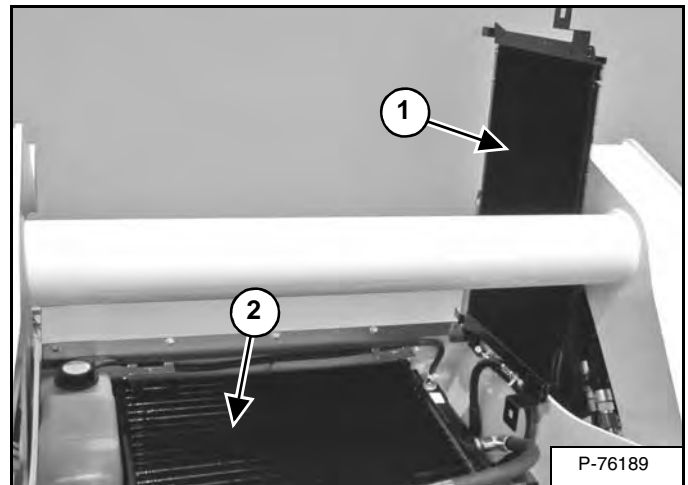
Figure PM-39



Use low air pressure or water pressure to clean the top of the air conditioning condenser (Item 1) [Figure PM-39], if equipped.

Raise the overflow tank (Item 2) slightly and remove the two fasteners (Inset) [Figure PM-39].

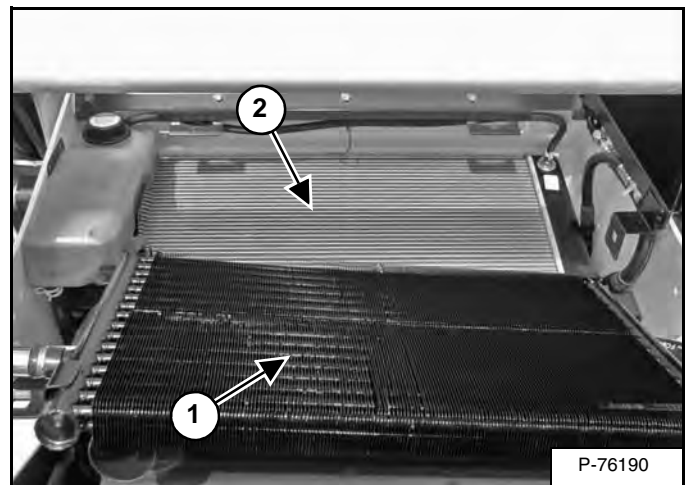
Figure PM-40



NOTE: Be careful when raising and lowering the air conditioning condenser so that the air conditioning condenser does not fall on the oil cooler and damage the fins.

Raise the air conditioning condenser (Item 1) and use low air pressure or water pressure to clean the top of the oil cooler (Item 2) [Figure PM-40].

Figure PM-41



NOTE: Be careful when raising and lowering the oil cooler so that the oil cooler does not fall on the radiator and damage the fins.

Raise the oil cooler (Item 1) and use low air pressure or water pressure to clean the top of the radiator (Item 2) [Figure PM-41].

Lower the oil cooler.

Lower the air conditioning condenser, if equipped.

Install the fasteners and lower the overflow tank. Check the cooling system for leaks.

Install the rear grill and close the rear door.

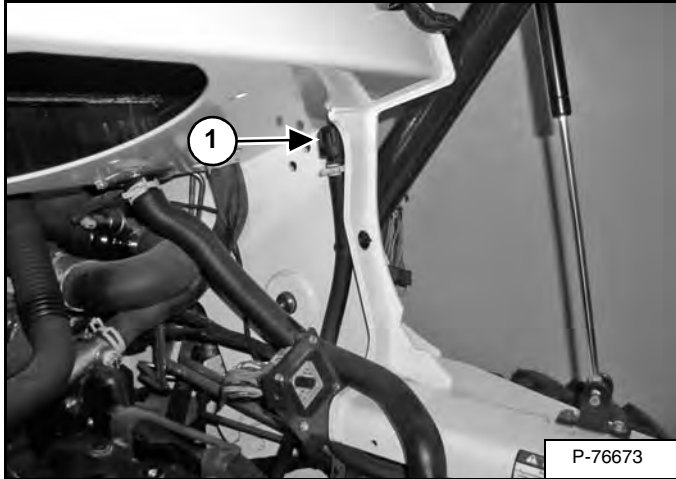
HYDRAULIC / HYDROSTATIC SYSTEM (CONT'D)

Breather Cap

See the SERVICE SCHEDULE for the correct replacement interval. (See SERVICE SCHEDULE on Page PM-7.)

Raise the operator cab. (See Raising on Page PM-14.)

Figure PM-59



Remove the breather cap (Item 1) **[Figure PM-59]** and discard. (Blower housing removed for clarity.)

Install new breather cap.

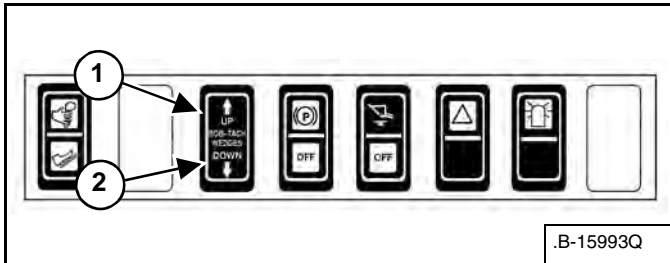
Lower the operator cab. (See Lowering on Page PM-15.)

BOB-TACH (POWER)

This machine may be equipped with a Power Bob-Tach.

Inspection And Maintenance

Figure PM-83



Push and hold the BOB-TACH “WEDGES UP” switch (Item 1) until wedges are fully raised. Push and hold the BOB-TACH “WEDGES DOWN” switch (Item 2) [Figure PM-83] until the wedges are fully down.

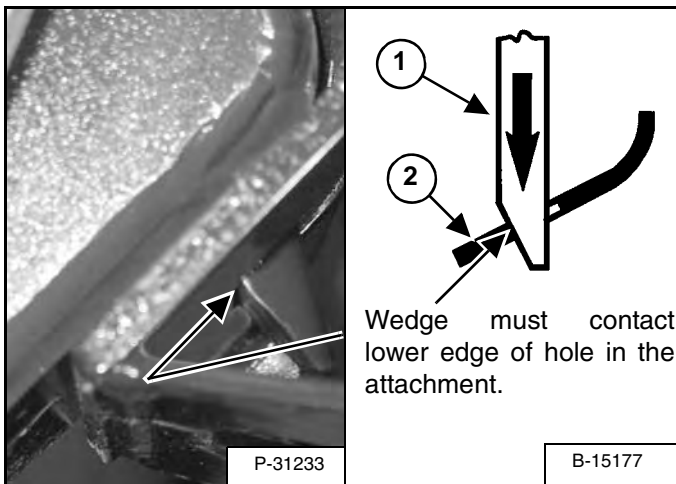
The levers and wedges must move freely.



Bob-Tach wedges must extend through the holes in attachment. Lever(s) must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

W-2102-0497

Figure PM-84

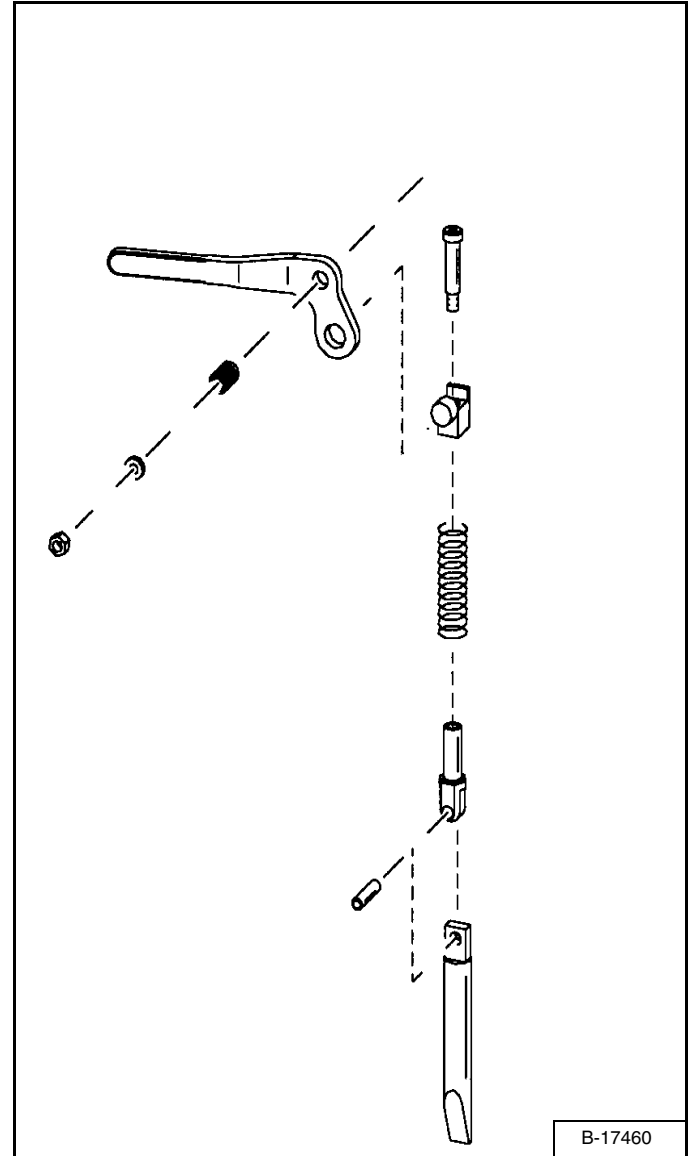


The wedges (Item 1) [Figure PM-84] must extend through the holes in the attachment mounting frame.

The spring loaded wedge (Item 1) must contact the lower edge of the hole in the attachment (Item 2) [Figure PM-84].

If the wedge does not contact the lower edge of the hole [Figure PM-84], the attachment will be loose and can come off the Bob-Tach.

Figure PM-85



Inspect the mounting frame on the attachment and Bob-Tach, linkages and wedges for excessive wear or damage [Figure PM-85]. Replace any parts that are damaged, bent or missing. Keep all fasteners tight.

Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See SERVICE SCHEDULE on Page PM-7.) (See LUBRICATING THE LOADER on Page PM-42.)

CONTROL PANEL SETUP (CONT'D)

Right Panel Setup (Deluxe Instrumentation Panel) (Cont'd)

More Examples

Clocks

Press . . .
TOOL / SETUP
LOADER FEATURES
DISPLAY OPTIONS
CLOCKS

SET CLOCK

Use the keypad to set time.
 Press **RUN / ENTER** to set clock.
 Press **EXIT** to return to previous level menu.

RESET JOB CLOCK (Password required)

(Job Clock keeps a running total for job hours)
 Press **CLEAR** to reset Job Clock to zero.
 Press **LOCK / UNLOCK** to unlock.
 Enter Password and press **RUN / ENTER**.

Languages

Press . . .
TOOL / SETUP
LOADER FEATURES
DISPLAY OPTIONS

LANGUAGES

Select the language, press **RUN / ENTER**.
 Press **EXIT** to return to previous level menu.

Vitals (Monitor the engine, hydraulic / hydrostatic, electrical functions when engine is running.)

Press . . .
TOOL / SETUP
LOADER FEATURES.

VITALS

Press **SELECTION ARROW** to select METRIC or ENGLISH (M / E) readouts

You can monitor real-time readouts of:

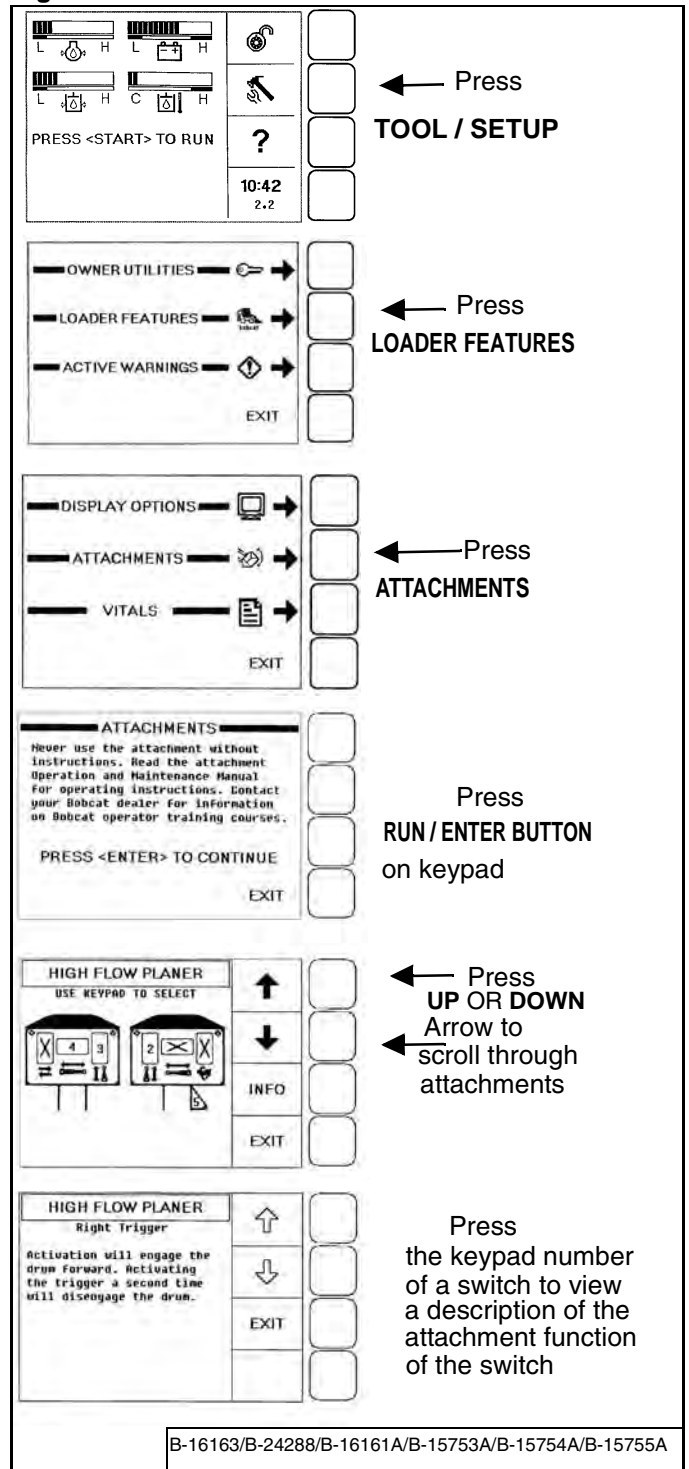
- Engine Oil Pressure**
- Engine Coolant Temperature**
- Hydraulic Charge Pressure**
- Hydraulic Oil Temperature**
- System Voltage**
- Engine Speed**

The Deluxe Instrumentation Panel is easy to use. Continue to set your own preferences for running / monitoring your Bobcat loader.

Attachment Control Information (Deluxe Instrumentation Panel)

The Deluxe Instrumentation Panel allows the user to view information concerning the operation of Bobcat attachments.

Figure SA-5



Attachments are listed alphabetically [Figure SA-5]. Press the exit button to return one screen or press the “0” (zero) key to return to the home screen immediately.

WARNING (6718396)

WARNING

AVOID INJURY OR DEATH

- Never carry riders.
- Never use loader as a man lift or work platform.

62702 SW 6718396B enUS

ADVERTENCIA

PELIGRO DE LESIONES O DE MUERTE

- No transporte nunca a nadie.
- No utilice la cargadora como plataforma de trabajo o de elevación para operarios.

62702 SW 6718396B ar

AVERTISSEMENT

RISQUE DE BLESSURES GRAVES, VOIRE MORTELLES

- Ne transportez jamais de passagers.
- N'utilisez jamais la chargeuse comme élévateur de personnel ni comme plateforme de travail.

62702 SW 6718396B fr

DANGER (6809511)

DANGER

AVOID DEATH

- Disconnecting hydraulic lines can cause the lift arms or attachment to drop.
- Always use an approved lift arm support when lift arms are in a raised position.

62245 SW 05 6809511 AR

DANGER

62245 SW 05 6809511 AR

DANGER

AVOID DEATH

- Disconnecting hydraulic lines can cause the lift arms or attachment to drop.
- Always use an approved lift arm support when lift arms are in a raised position.

62245 SW 05 6809511 AR

PELIGRO

EVITE LESIONES FATALES

- Desconectar las líneas hidráulicas puede provocar que los brazos de elevación o el implemento se caigan.
- Utilice siempre un soporte aprobado cuando los brazos de elevación están levantados.

62245 SW 05 6809511 AR

PELIGRO

62245 SW 05 6809511 AR

PELIGRO

EVITE LESIONES FATALES

- Desconectar las líneas hidráulicas puede provocar que los brazos de elevación o el implemento se caigan.
- Utilice siempre un soporte aprobado cuando los brazos de elevación están levantados.

62245 SW 05 6809511 AR

DANGER

DANGER DE MORT

- Le débranchement des conduites hydrauliques peut provoquer la chute des bras de levage ou de l'accessoire.
- Utilisez toujours un arrêt de bras de levage approuvé quand les bras de levage sont relevés.

62245 SW 05 6809511 AR

DANGER

62245 SW 05 6809511 AR

DANGER

DANGER DE MORT

- Le débranchement des conduites hydrauliques peut provoquer la chute des bras de levage ou de l'accessoire.
- Utilisez toujours un arrêt de bras de levage approuvé quand les bras de levage sont relevés.

62245 SW 05 6809511 AR

WARNING (6718397)

WARNING

Unexpected loader, lift arm or attachment movement caused by cab contact with steering levers can cause serious injury or death.

BEFORE RAISING OR LOWERING CAB:

- Stop engine

70469 SW 6718397B enUS

ADVERTENCIA

El movimiento inesperado del cargador, brazo de elevación o implemento provocado por el contacto de la cabina con las palancas de dirección puede causar lesiones graves o accidentes fatales.

ANTES DE SUBIR O BAJAR LA CABINA:

- Detenga el motor.

70469 SW 6718397B ar

AVERTISSEMENT

Un mouvement intempestif de la chargeuse, du bras de levage ou de l'accessoire dû au contact de la cabine avec les leviers de direction peut entraîner des blessures graves, voire mortelles.

AVANT DE RELEVER OU D'ABAISSER LA CABINE :

- Arrêtez le moteur

70469 SW 6718397B fr

SPECIFICATIONS

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**SPECIFICATIONS
(SPEC)**

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