



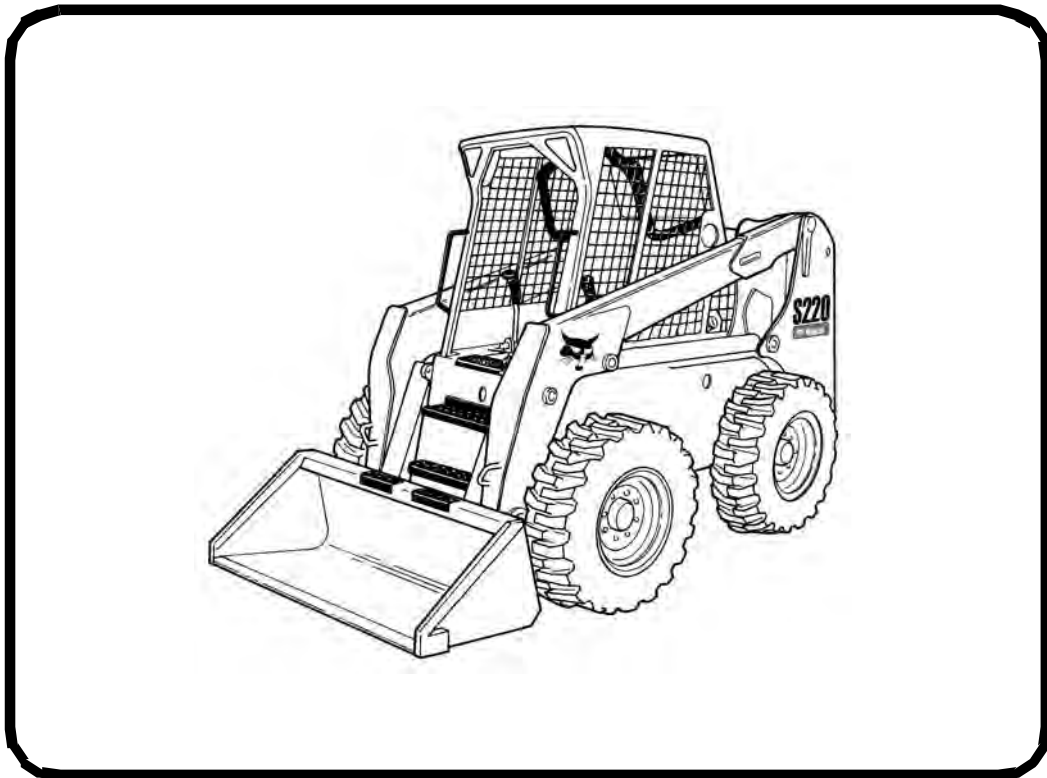
# Bobcat®

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## Operation & Maintenance Manual S220 Skid-Steer Loader

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S/N 530711001 & Above  
S/N 530811001 & Above



EQUIPPED WITH  
BOBCAT INTERLOCK  
CONTROL SYSTEM (BICS)



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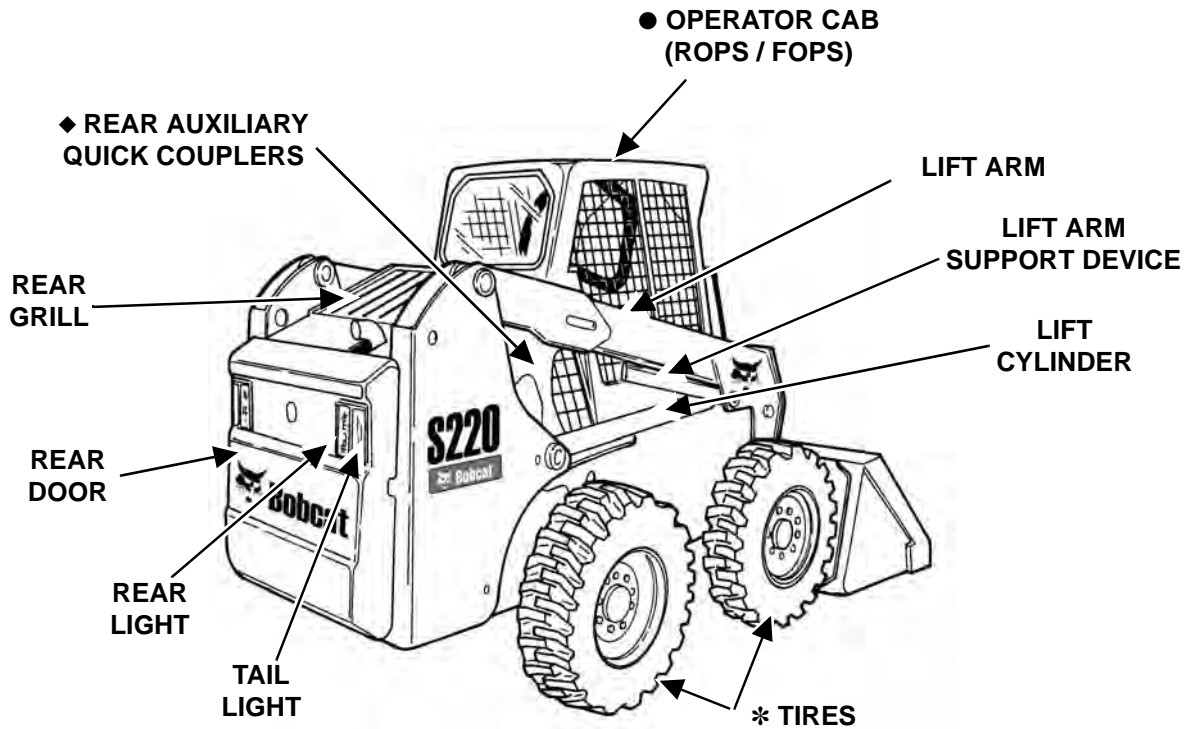
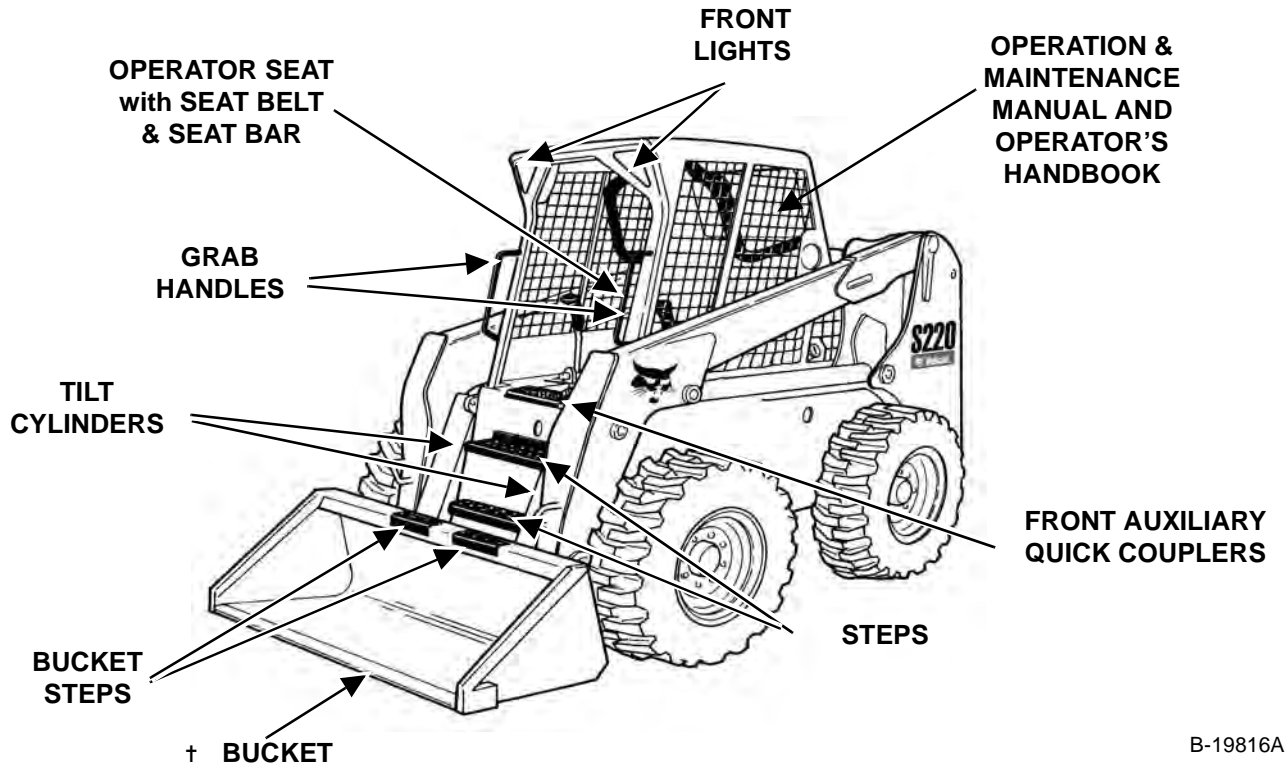
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# LOADER IDENTIFICATION



◆ Optional or Field Accessory (Not Standard Equipment)

\* TIRES - Tires shown may not be standard. The machine is factory equipped with standard tires. Other tires 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 SAE J1043 and ISO 3449, Level I. Level II is available.

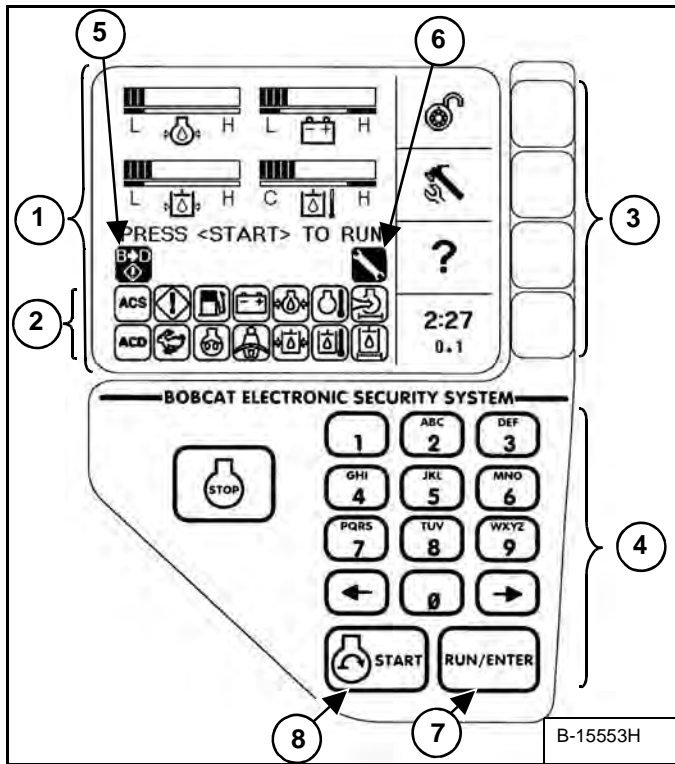


**Bobcat®**

## INSTRUMENT PANEL IDENTIFICATION (CONT'D)

### Right Panel (Keyless)

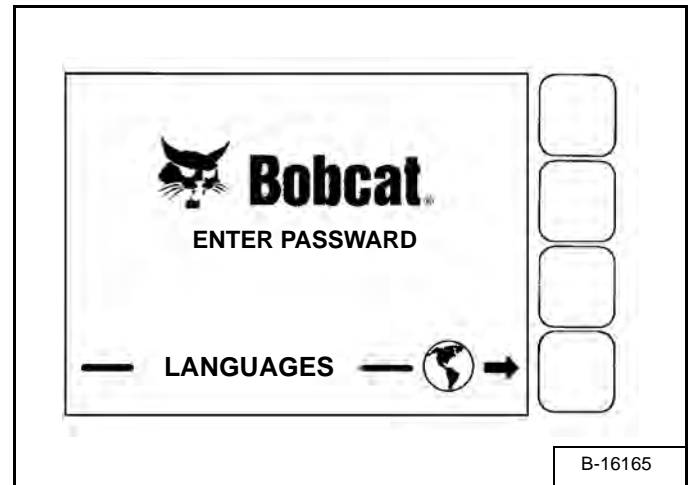
Figure OI-3



The right instrument panel shown [Figure OI-3] is the Keyless Panel.

1. **Display Screen:** The Display Screen is where all system setup, monitoring, troubleshooting, and error conditions are displayed.
2. **Function Icons:** The lower left area of the Display Screen contains the same icons as the Key Switch Panel. These icons are only visible when the monitoring system has detected the associated condition.
3. **Selection Buttons:** The four Selection Buttons allow you to select items from the Display Screen and scroll through screens.
4. **Keypad:** The numeric keypad has two functions:
  - To enter a number code (password) to allow starting the engine (Keyless Start).
  - To enter a number as directed for further use of the Display Screen.
5. **Bobcat Controller / Display Icon:** Indicates communication error between Bobcat controller and instrument panel. (See DIAGNOSTIC SERVICE CODES on Page SA-4.)
6. **BobCARE PM<sup>SM</sup> Icon:** Indicates planned maintenance is due. (See MAINTENANCE CLOCK on Page SA-14.)

Figure OI-4



The first screen you will see on your new loader will be as shown in [Figure OI-4].

When this screen is on the display you can enter the password and start the engine or change the Display Screen setup features.

**NOTE:** Your new loader (with Keyless Instrument Panel) will have 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-12.) Keep your password in a safe place for future needs.

**Start Engine:** Press the RUN / ENTER key (Item 7) and use the Keypad (Item 4) [Figure OI-3] to enter the numbers (letters) of your password.

**Press and hold the START button (Item 8) [Figure OI-3] until the engine starts.**

**Change Language:** Press the Selection Button at the end of the arrow [Figure OI-4] to go to the next screen.

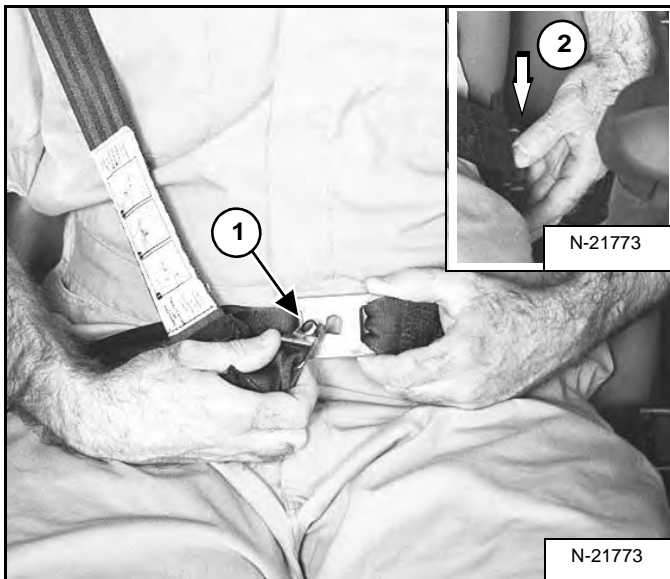
## TWO-SPEED CONTROL

### Description

This machine may be equipped with two-speed. The two-speed allows you to reduce cycle times when there is a long travel distance between the dig site and the dump site. You can also use the two-speed when traveling from one job site to another at faster speeds.



Figure OI-27



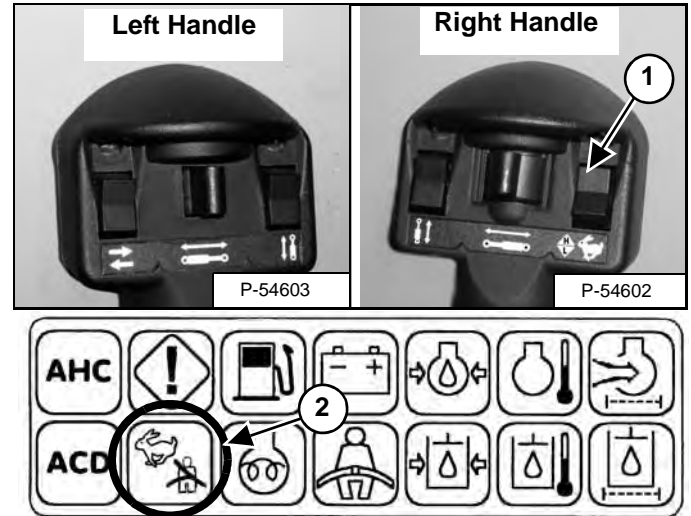
**NOTE: The 3-point restraint must be used when selecting two-speed operation [Figure OI-27].**

Connect the shoulder belt to the lap belt (Item 1). Pull the lap belt across to the left side of the seat (Item 2) [Figure OI-27] and fasten.

The shoulder belt must be positioned over your right shoulder and lap belt over your lower hips [Figure OI-27].

## Operation (Standard And ACS) (If Equipped)

Figure OI-28



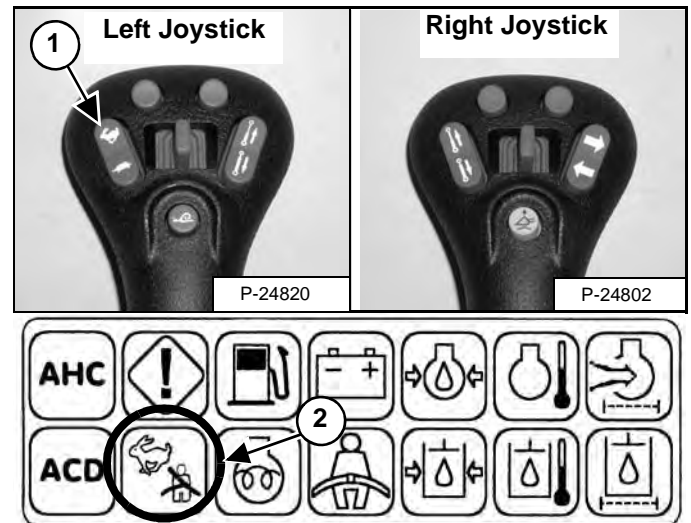
Press the top of the switch (Item 1) on the right handle for high range. The two-speed icon located on the right hand instrument panel (Item 2) [Figure OI-28] will come on.

**NOTE: This toggle switch retains the selected range. The loader will be in high range speed at start-up if the switch is in the high range position.**

Press the bottom of the switch for low range.

## Operation (SJC) (If Equipped)

Figure OI-29



Press the top of the switch (Item 1) on the left joystick for high range. The two-speed icon located on the right hand instrument panel (Item 2) [Figure OI-29] will come on.

**NOTE: This momentary contact switch does not retain the last range selected. The loader will default to low range speed at start-up.**

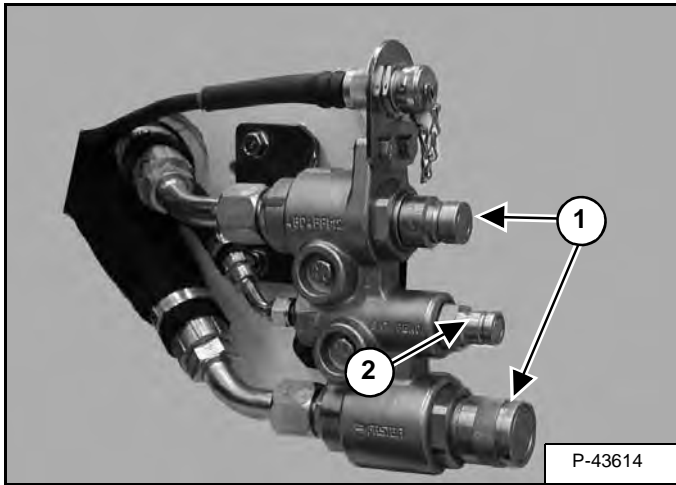
Press the bottom of the switch for low range.

## HYDRAULIC CONTROLS (CONT'D)

### High-Flow Hydraulics Operation

This machine may be equipped with High-Flow Hydraulics.

Figure OI-52

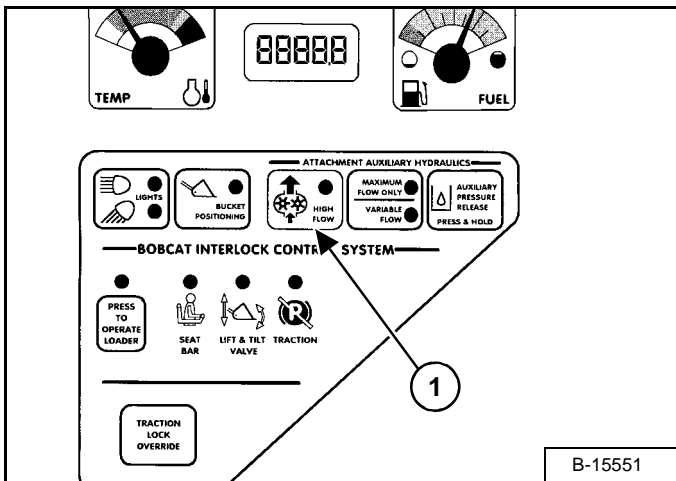


The High-Flow function provides additional flow to the system to operate an attachment which requires more hydraulic flow (EXAMPLE: Planer)

Connect the attachment to the quick couplers (Item 1) [Figure OI-52].

Some attachments may have a case drain which needs to be connected to the small quick coupler (Item 2) [Figure OI-52].

Figure OI-53



Press the HIGH FLOW button (Item 1) [Figure OI-53].

Press a second time to disengage.

## STARTING THE ENGINE (CONT'D)

### Keyless



#### 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.)

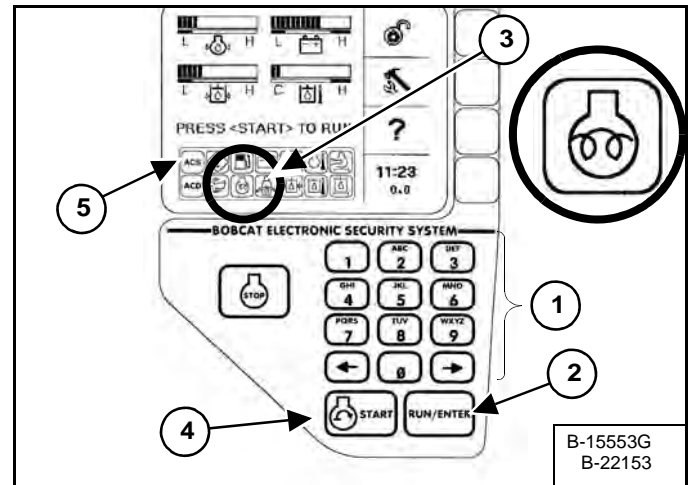
Figure OI-74



Set the engine speed control to the idle speed position [Figure OI-74]

**NOTE:** Loaders with Keyless Instrument 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 Passwords on Page SA-10) Keep your password in a safe place for future needs.

Figure OI-75



Use the numeric keypad (Item 1) [Figure OI-75] to enter the password, then press the RUN / ENTER button (Item 2) [Figure OI-75].

If the temperature is cold, the intake air heater will automatically cycle and the icon (Item 3) [Figure OI-75] will be ON.

When the icon light goes OFF, press the START button (Item 4) [Figure OI-75]. Release the button when the engine starts.

**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 attempting to start the engine.

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 (Item 5) [Figure OI-75] 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.

## ATTACHMENTS (CONT'D)

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

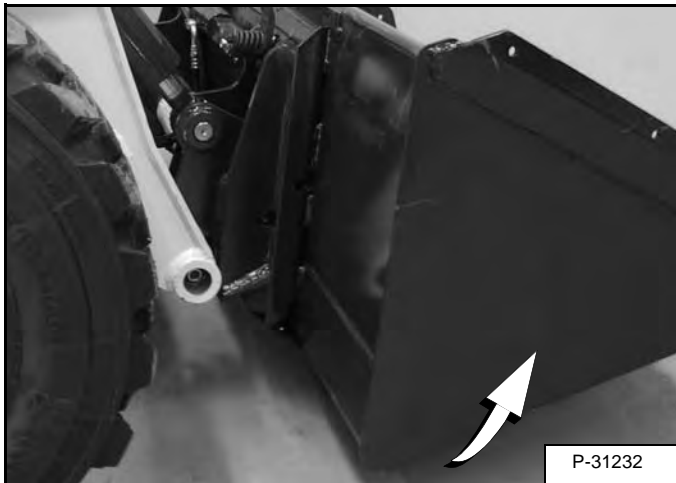
*Installing (Cont'd)*

Figure OI-99



Drive the loader forward until the top edge of the Bob-Tach is completely under the top flange of the bucket [Figure OI-99] (or other attachment).

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.

Push and hold BOB-TACH “WEDGES DOWN” switch (Front Panel) (Item 1) until levers (Item 3) [Figure OI-98] are fully engaged in the locked position (wedges fully engaged).

The wedges (Item 4) [Figure OI-98] 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

## OPERATING PROCEDURE (CONT'D)

### Filling And Emptying The Bucket (SJC - 'ISO' Pattern)

#### Filling

Figure OI-121

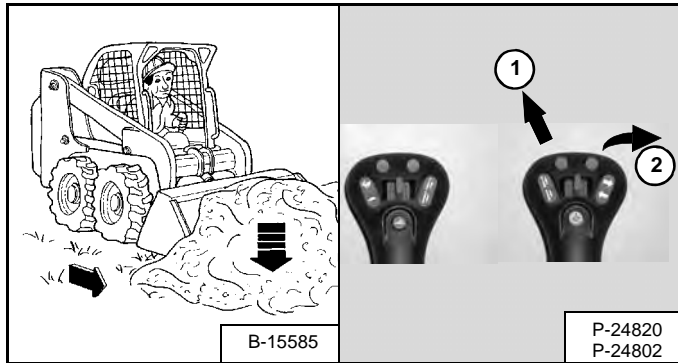
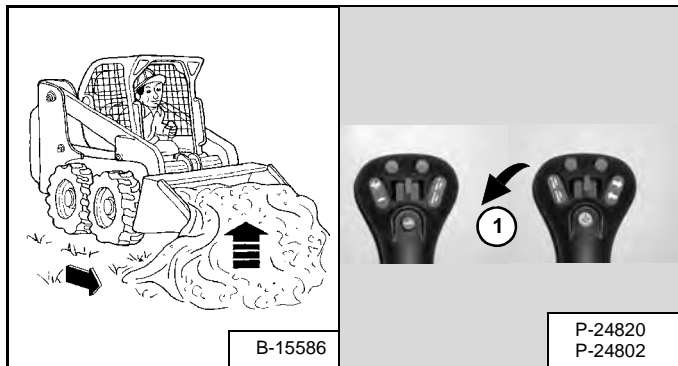


Figure OI-122



Lower the lift arms all the way (Item 1) [Figure OI-121].

Tilt the bucket forward (Item 2) [Figure OI-121] until the cutting edge of the bucket is on the ground.

Drive slowly forward into the material. Tilt the bucket backward (Item 1) [Figure OI-122] all the way when the bucket is full.

Drive backward away from the material.

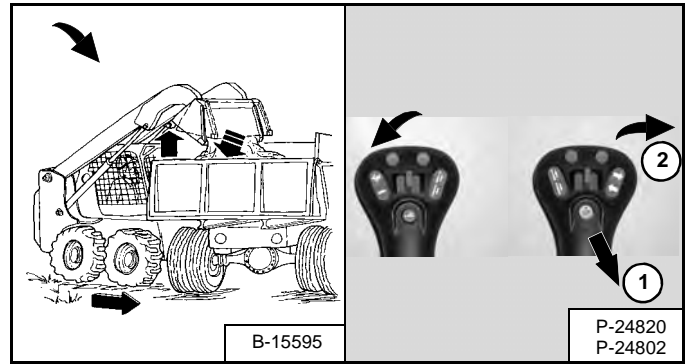
## ! WARNING

Load, unload and turn on flat level ground. Do not exceed Rated Operating Capacity (ROC) shown on sign (decal) in cab. Failure to obey warnings can cause the machine to tip or roll over and cause injury or death.

W-2056-0903

#### Emptying

Figure OI-123



Keep the bucket low when moving to the area where you want to empty the bucket.

Raise the lift arms (Item 1) [Figure OI-123]. Level the bucket (Item 2) [Figure OI-123] while raising the lift arms to help prevent material from falling off the back of the bucket.

Drive forward slowly until the bucket is over the top of the truck box or bin.

Empty the bucket (Item 2) [Figure OI-123]. If all material is near the side of the truck or bin, use the bucket tilt to move it to the other side.

## ! WARNING

Never dump over an obstruction, such as a post, that can enter the operator cab. The machine could tip forward and cause injury or death.

W-2057-0694

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# 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.

W-2003-0903



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

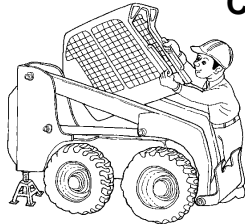
### CORRECT



B-10731a

- ⚠ Never service the Bobcat Skid-Steer Loader without instructions.

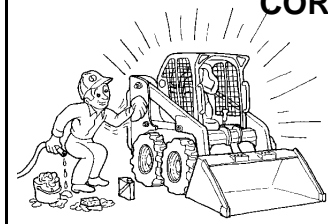
### CORRECT



B-15590

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

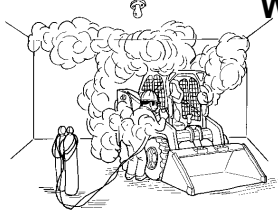
### CORRECT



B-15591

- ⚠ Cleaning and maintenance are required daily.

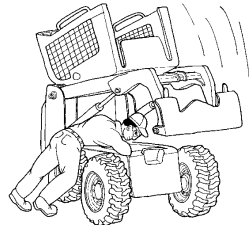
### WRONG



B-15592

- ⚠ 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.

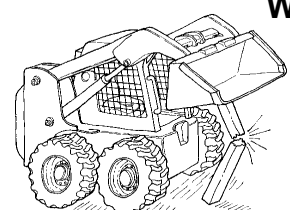
### WRONG



B-15593

- ⚠ 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.

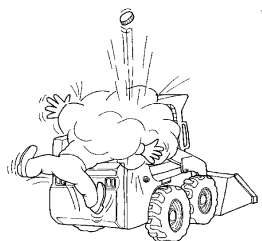
### WRONG



B-15599

- ⚠ 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.

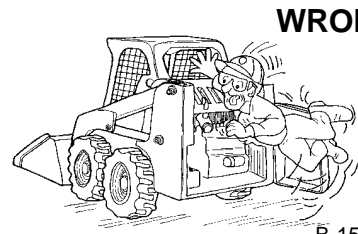
### WRONG



B-15600

- ⚠ 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.

### WRONG



B-15601

- ⚠ 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.

### WRONG



B-6589

- ⚠ 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.

MSW08-0805

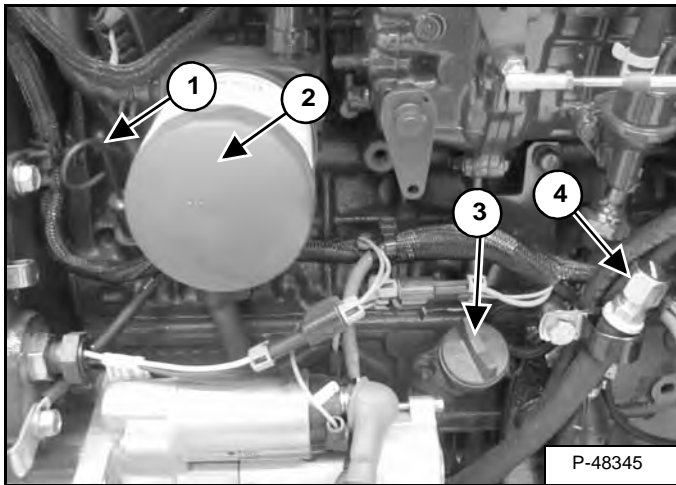


## ENGINE LUBRICATION SYSTEM

### Checking And Adding Engine Oil

Check the engine oil level every day before starting the engine for the work shift.

Figure PM-36

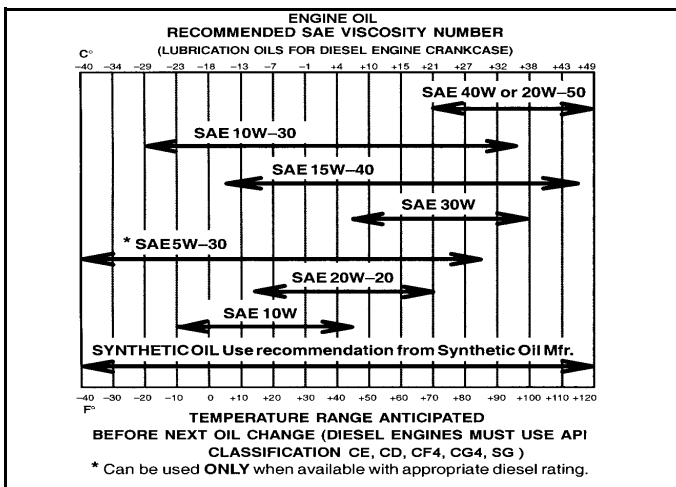


Open the rear door and remove the dipstick (Item 1) [Figure PM-36].

Keep the oil level between the marks on the dipstick.

### Engine Oil Chart

Figure PM-37



Use good quality motor oil that meets API Service Classification of CD or better [Figure PM-37].

Install the dipstick and close the rear door.

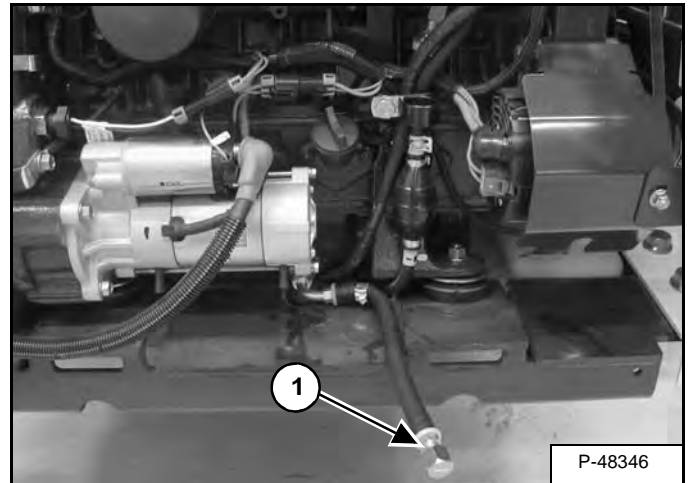
### Removing And Replacing Oil And Filter

For the service interval for replacing the engine oil and filter. (See SERVICE SCHEDULE on Page PM-7.)

Run the engine until it is at operating temperature. Stop the engine.

Open the rear door and remove the drain hose from its storage position (Item 4) [Figure PM-36].

Figure PM-38



Remove the drain plug (Item 1) [Figure PM-38] and drain the oil into a container and recycle or dispose of used oil in an environmentally safe manner.

Reinstall the drain plug.

Remove the oil filter (Item 2) [Figure PM-38] and clean the filter housing surface.

Use genuine Bobcat filter only.

Put oil on the new filter gasket, install the filter and hand tighten.

Remove the fill cap (Item 3) [Figure PM-38].

Put oil in the engine. For the correct quantity (See (S220) LOADER SPECIFICATIONS on Page SPEC-3.)

Start the engine and let it run for several minutes. Stop the engine and check for leaks at the filter.

Remove the dipstick (Item 1) [Figure PM-36] and check the oil level.

Add oil as needed if it is not at the top mark on the dipstick.

Install the dipstick and close the rear door.

**! WARNING**

**AVOID INJURY OR DEATH**

**Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.**

W-2103-0807

## HYDRAULIC / HYDROSTATIC SYSTEM (CONT'D)

### Removing And Replacing Case Drain Filters (Cont'd)

Install fittings on new filter, install new filter, connect and tighten the hoses and install the left lower side cover.



#### **AVOID INJURY OR DEATH**

**Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.**

**W-2103-0807**

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

Start the engine and operate the loader hydraulic controls.

Stop the engine and check for leaks at the filter.

Check the fluid level in the reservoir and add as needed. (See Checking And Adding Fluid on Page PM-32.)

## LUBRICATING THE LOADER

### Lubrication Locations

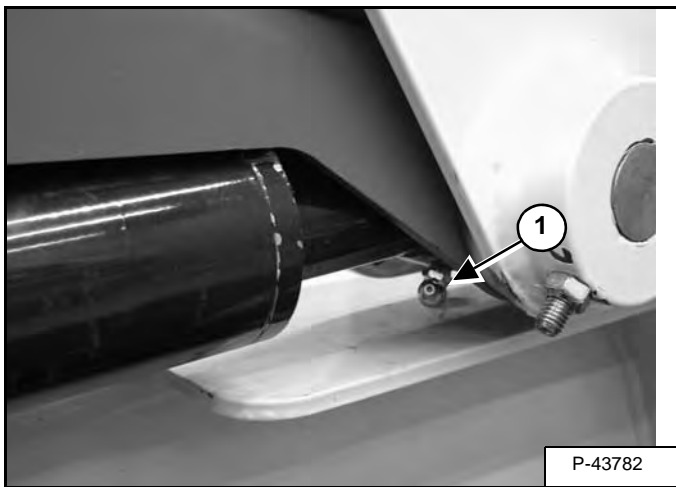
Lubricate the loader as specified for the best performance of the loader. (See SERVICE SCHEDULE on Page PM-7.)

Record the operating hours each time you lubricate the Bobcat Loader.

Always use a good quality lithium based multi-purpose grease when you lubricate the loader. Apply the lubricant until extra grease shows.

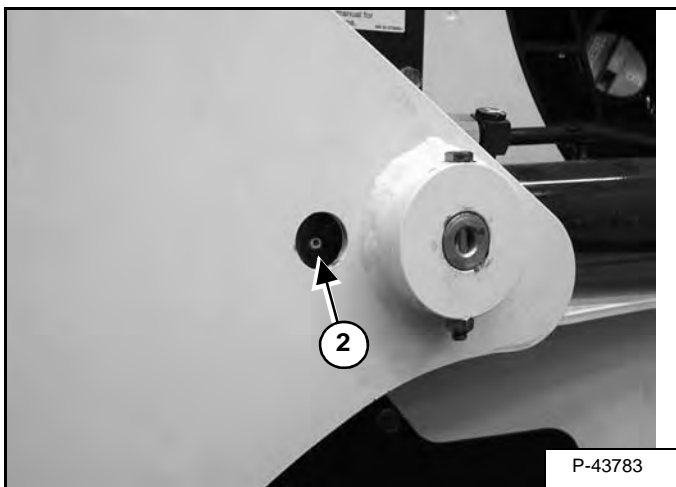
Lubricate the following:

**Figure PM-83**



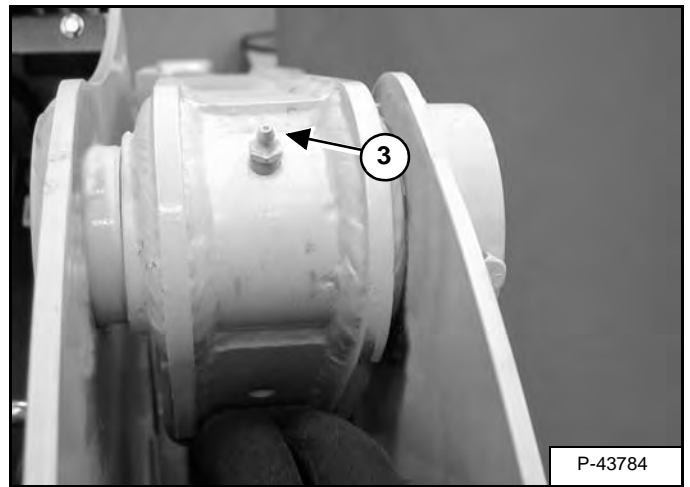
1. Rod End Lift Cylinder (Both Sides) [Figure PM-83].

**Figure PM-84**



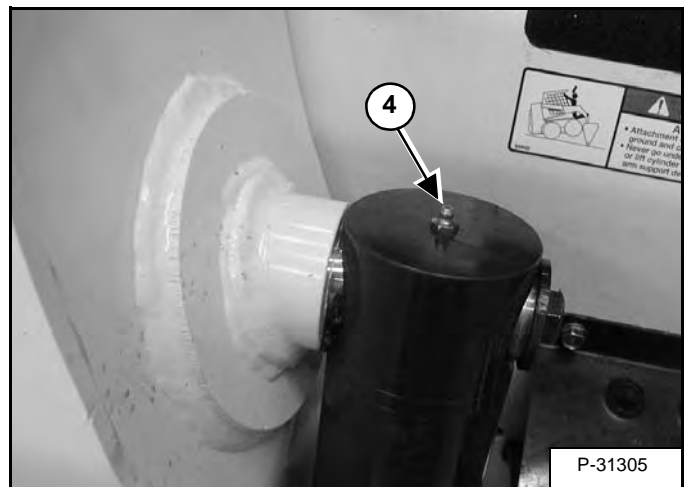
2. Base End Lift Cylinder (Both Sides) [Figure PM-84].

**Figure PM-85**



3. Lift Arm Pivot Pin (Both Sides) [Figure PM-85].

**Figure PM-86**



4. Base End Tilt Cylinder (Both Sides) [Figure PM-86].

## DIAGNOSTIC SERVICE CODES (CONT'D)

### Service Codes List

CODE		CODE	
01-16	Air filter not connected	11-05	Seat bar sensor short to battery
01-17	Air filter plugged	11-06	Seat bar sensor short to ground
02-16	Hydraulic/Hydrostatic filter not connected	12-21	Front auxiliary PWM switch out of range high
02-17	Hydraulic/Hydrostatic filter plugged	12-22	Front auxiliary PWM switch out of range low
		12-23	Front auxiliary PWM switch not in neutral
03-09	Battery voltage low		
03-10	Battery voltage high	13-05	Fuel shut-off hold solenoid short to battery
03-11	Battery voltage extremely high	13-06	Fuel shut-off hold solenoid short to ground
03-14	Battery voltage extremely low	13-07	Fuel shut-off solenoid open circuit
03-22	Battery voltage out of range low		
		14-02	Fuel shut-off pull solenoid error ON
04-09	Engine oil pressure low	14-03	Fuel shut-off pull solenoid error OFF
04-14	Engine oil pressure extremely low		
04-15	Engine oil pressure shutdown level	15-02	Traction lock pull solenoid error ON
04-21	Engine oil pressure out of range high	15-03	Traction lock pull solenoid error OFF
04-22	Engine oil pressure out of range low		
		16-05	Traction lock hold solenoid short to battery
05-09	Hydraulic charge pressure low	16-06	Traction lock hold solenoid short to ground
05-10	Hydraulic charge pressure high	16-07	Traction lock hold solenoid open circuit
05-11	Hydraulic charge pressure extremely high		
05-14	Hydraulic charge pressure extremely low	17-05	Hydraulic lock valve solenoid short to battery
05-15	Hydraulic charge pressure shutdown level	17-06	Hydraulic lock valve solenoid short to ground
05-21	Hydraulic charge pressure out of range high	17-07	Hydraulic lock valve solenoid open circuit
05-22	Hydraulic charge pressure out of range low		
		18-05	Spool lock solenoid short to battery
06-10	Engine speed high	18-06	Spool lock solenoid short to ground
06-11	Engine speed extremely high	18-07	Spool lock solenoid open circuit
06-13	Engine speed no signal		
06-15	Engine speed shutdown level	19-02	Bucket positioning solenoid error ON
06-18	Engine speed out of range	19-03	Bucket positioning solenoid error OFF
07-10	Hydraulic oil temperature high	20-02	Two-speed solenoid error ON
07-11	Hydraulic oil temperature extremely high	20-03	Two-speed solenoid error OFF
07-15	Hydraulic oil temperature shutdown level		
07-21	Hydraulic oil temperature out of range high	21-02	Glow plug error ON
07-22	Hydraulic oil temperature out of range low	21-03	Glow plug error OFF
08-10	Engine coolant temperature high	22-02	Starter error ON
08-11	Engine coolant temperature extremely high	22-03	Starter error OFF
08-15	Engine coolant temperature shutdown level		
08-21	Engine coolant temperature out of range high	23-02	Rear base solenoid error ON
08-22	Engine coolant temperature out of range low	23-03	Rear base solenoid error OFF
09-09	Fuel level low	24-02	Rear rod solenoid error ON
09-21	Fuel level out of range high	24-03	Rear rod solenoid error OFF
09-22	Fuel level out of range low		
		25-02	Rear auxiliary relief solenoid error ON
10-17	Hydraulic charge filter plugged	25-03	Rear auxiliary relief solenoid error OFF

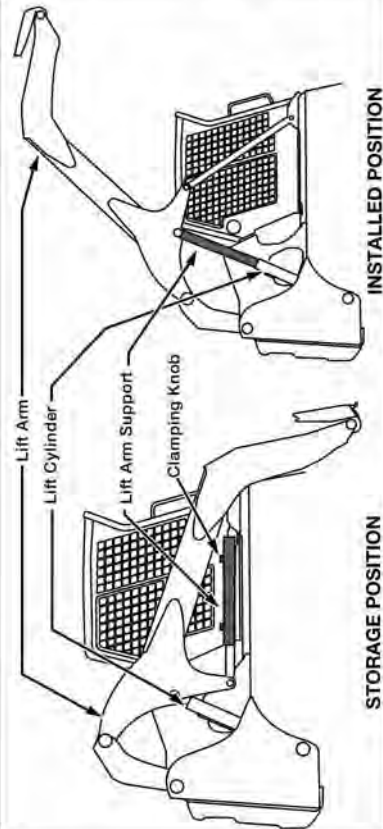
## MACHINE SIGN TRANSLATIONS

DANGER (6702301) . . . . .	MST-6
DANGER (6702302) . . . . .	MST-6
DANGER (6717343) . . . . .	MST-6
DANGER (6809511) . . . . .	MST-9
IMPORTANT (6560573) . . . . .	MST-7
LIFT ARM SUPPORT DEVICE (6732774) . . . . .	MST-11
SERVICE SCHEDULE (6734534). . . . .	MST-3
WARNING (6579528) . . . . .	MST-6
WARNING (6577754) . . . . .	MST-7
WARNING (6708941) . . . . .	MST-16
WARNING (6728539) . . . . .	MST-8
WARNING (6732696) . . . . .	MST-9
WARNING (6718706) . . . . .	MST-9
WARNING (6733996) . . . . .	MST-10
WARNING (6725370) . . . . .	MST-10
WARNING (6737189) . . . . .	MST-10
WARNING (7131518) . . . . .	MST-12
WARNING (7131519) . . . . .	MST-14
WARNING (6726423) . . . . .	MST-16
WARNING (6704786) . . . . .	MST-17

**MACHINE SIGN  
TRANSLATIONS  
(MST)**

**TO INSTALL APPROVED LIFT ARM SUPPORT P/N 6731569:**

1. Remove Attachment From Loader.
2. Stay in Seat While Second Person Removes Lift Arm Support From Storage Position.
3. Raise Lift Arms While Second Person Positions Lift Arm Support Against Cylinder Rod.
4. Lower Lift Arms Slowly Until Lift Arm Support is Held Securely Between Lift Arm And Cylinder.



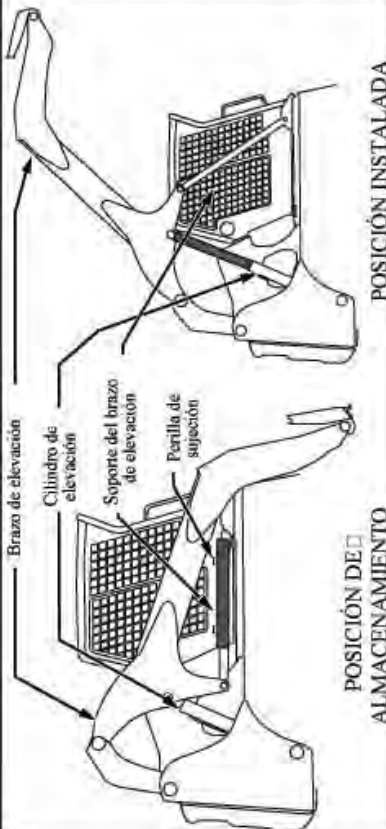
STORAGE POSITION

INSTALLED POSITION

70485 SW  
6732774A EN/US  
70485 SW

**INSTALACIÓN DEL SOPORTE APROBADO DEL BRAZO DE ELEVACIÓN P/N 6731569:**

1. Retire el implemento del cargador.
2. Permanezca sentado mientras otra persona retira el soporte del brazo de elevación de la posición de almacenamiento.
3. Levante los brazos de elevación mientras otra persona coloca el soporte del brazo de elevación contra el vástago del cilindro.
4. Baje los brazos de elevación lentamente hasta que el soporte se sostenga con firmeza entre el brazo de elevación y el cilindro.



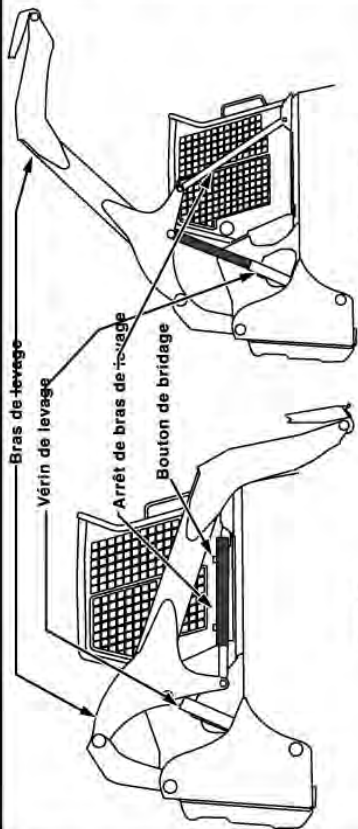
POSICIÓN DE ALMACENAMIENTO

POSICIÓN INSTALADA

70485 SW  
6732774A EN/US  
70485 SW

**MONTAGE DE L'ARRÊT DE BRAS DE LEVAGE N/P 6731569 :**

1. Déposez l'accessoire de la chargeuse.
2. Tout en restant assis, faites retirer l'arrêt de bras de levage de sa position de repos.
3. Relevez les bras à bout de course. Demandez à l'aide de monter l'arrêt de bras de levage sur la tige d'un des vérins de levage.
4. L'arrêt de bras de levage doit être bien appuyé sur la tige du vérin. Abaissez lentement les bras de levage jusqu'à ce que l'arrêt soit fermement maintenu entre les bras et le vérin de levage.



REPOS

MONTAGE

70485 SW  
6732774A EN/US  
70485 SW

**TO REMOVE LIFT ARM SUPPORT:**

1. Raise Lift Arms While Second Person Removes Lift Arm Support From Cylinder Rod.
2. Stay in Seat Until The Lift Arms Are Lowered All The Way.
3. Return Lift Arm Support To Storage Position And Secure With Clamping Knobs.

**DESINSTALACIÓN DEL SOPORTE DEL BRAZO DE ELEVACIÓN:**

1. Levante los brazos de elevación mientras otra persona retira el soporte del brazo de elevación del vástago del cilindro.
2. Permanezca sentado hasta que los brazos de elevación se bajen completamente.
3. Regrese el soporte del brazo de elevación a la posición de almacenamiento y asegúrelo con las perillas de sujeción.

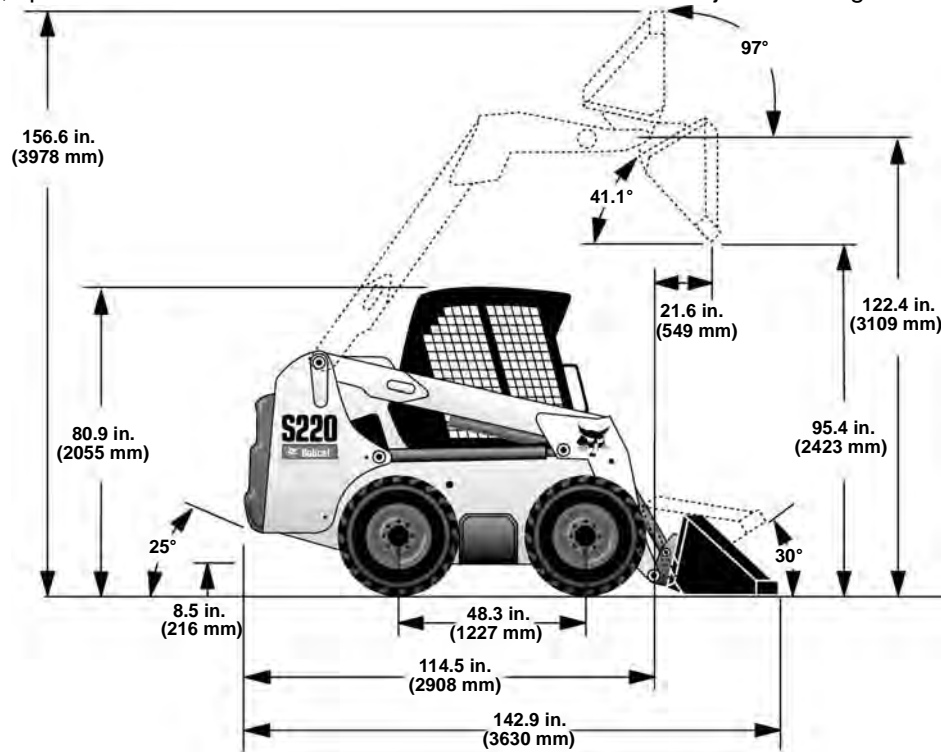
**DEPOSE DE L'ARRÊT DE BRAS DE LEVAGE :**

1. Relevez les bras à bout de course. Demandez à un aide de retirer l'arrêt de bras de levage de la tige du vérin.
2. Restez assis sur le siège jusqu'à ce que les bras de levage soient abaissés à bout de course.
3. Remettez l'arrêt de bras de levage dans sa position de repos et fixez-le à l'aide de boutons de bridage.

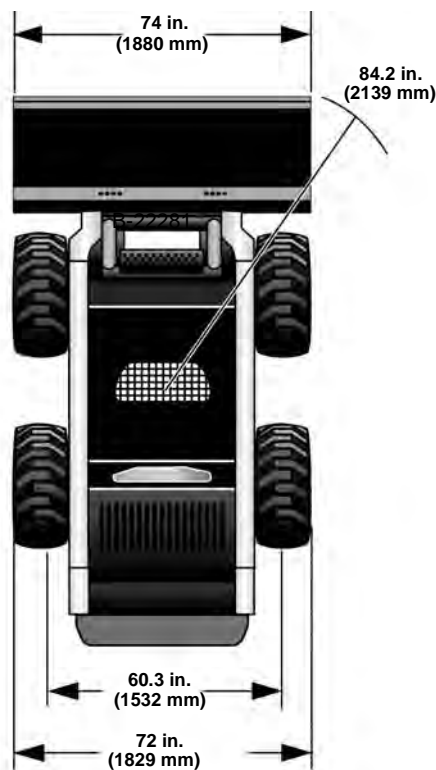
## (S220) LOADER SPECIFICATIONS

### Dimensions

- Dimensions are given for loader equipped with standard tires and 74 inch Construction & Industrial bucket and may vary with other bucket types. All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



B-22281E



B-22282

Changes of structure or weight distribution of the loader can cause changes in control and steering response and can cause failure of the loader parts.

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