

# A300

TURBO

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TURBO

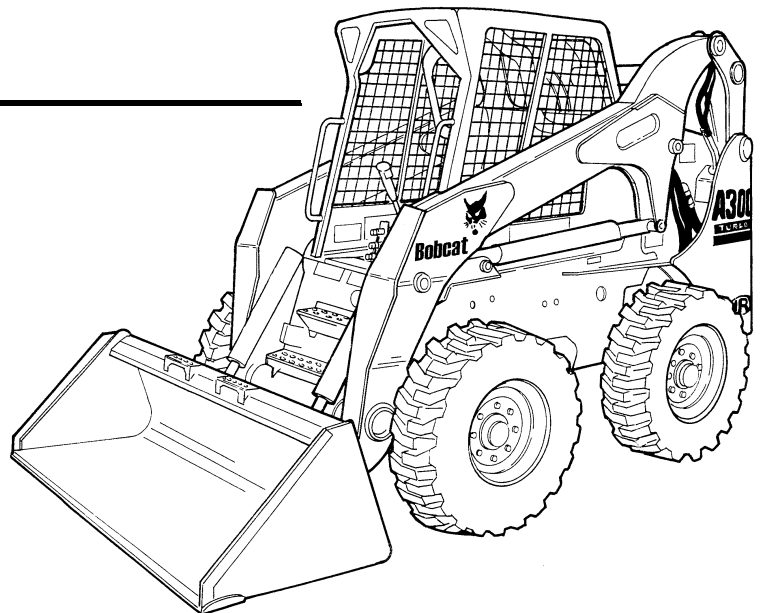
HIGH FLOW



# Bobcat®

# Operation & Maintenance Manual

S/N 523411001 & Above  
S/N 523511001 & Above



EQUIPPED WITH  
BOBCAT INTERLOCK  
CONTROL SYSTEM (BICS)

6902431 (6-03) Revised (12-06) (2)

 **Ingersoll Rand**  
Compact Vehicle Technologies

Printed in U.S.A.

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**BOBCAT COMPANY IS ISO 9001 CERTIFIED**



**ISO 9001** is a set of international standards that control the processes and procedures which we use to design, develop, manufacture, distribute, and service Bobcat products.




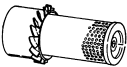




British Standards Institute (**BSI**) is the Certified Registrar Bobcat chose to assess the Company’s compliance with the ISO 9001 set of standards. The BSI registration certifies that the two Bobcat manufacturing plants and the Bobcat corporate offices (Gwinner, Bismarck & West Fargo) in North Dakota are in compliance with ISO 9001. Only certified assessors, like BSI, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

**CALIFORNIA  
PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

**REGULAR MAINTENANCE ITEMS**

	ENGINE OIL FILTER (6 Pack) 6680701		BATTERY 6665427
	FUEL FILTER 6667352		FLUID, Hydraulic/Hydrostatic (5 Gallons) 6563328
	AIR FILTER, Outer 6681475		RADIATOR CAP 6577785
	AIR FILTER, Inner 6681474		PROPYLENE GLYCOL ANTI-FREEZE, Premixed [-34°F (-37°C)] 6724094
	HYDROSTATIC FILTER 6661248		PROPYLENE GLYCOL ANTI-FREEZE, Concentrate 6724354
	HYDROSTATIC FILTER, In-Line 6661022		

**MOTOR OIL**

6667299 SAE 15W40 CE/SG (12 qt.)	6724558 SAE 15W40 CE/SG (1 Gal.)	6674204 SAE 15W40 CE/SG (2.5 Gal.)
6657301 SAE 10W30 CE/SG (12 qt.)	6724557 SAE 10W30 CE/SG (1 Gal.)	6674205 SAE 10W30 CE/SG (2.5 Gal.)
6657303 SAE 30W CE/SG (12 qt.)	6724559 SAE 30W CS/SG (1 Gal.)	6674206 SAE 30W CS/SG (2.5 Gal.)

# MACHINE SIGNS (DECALS) (CONT'D)

Follow the instructions on all the Machine Signs (Decals) that are on the loader. Replace any damaged machine signs and be sure they are in the correct locations. Machine signs are available from your Bobcat Loader dealer.

**IMPORTANT**

THIS MACHINE IS FACTORY EQUIPPED WITH A U.S.A. FORESTRY SERVICE APPROVED SPRAY ARRESTOR EXHAUST SYSTEM.

THE SPRAY ARRESTOR SYSTEM IS EQUIPPED WITH A FILTER TO KEEP IT IN WORKING CONDITION. THE SPRAY ARRESTOR FILTER MUST BE SERVICED BY CLEANING THE SPRAY CHAMBER EVERY 100 HRS OF OPERATION.

ON SOME MODELS, THE TURBOCHARGER FUNCTIONS AS THE SPRAY ARRESTOR AND MUST BE SERVICED CORRECTLY FOR PROPER SPRAY ARRESTOR FUNCTION.

IF THIS MACHINE IS OPERATED IN A HAZARDOUS AREA, WEAR OR SMALL COVERED SHOES. IT MUST BE EQUIPPED WITH A SPRAY ARRESTOR ATTACHED TO THE EXHAUST SYSTEM AND OPERATED IN ACCORDANCE WITH THE INSTRUCTIONS. THE FILTER MUST BE SERVICED IN ACCORDANCE WITH THE INSTRUCTIONS AND THE FILTER TO LOCAL LAWS AND REGULATIONS FOR SPRAY ARRESTOR REQUIREMENTS.

SEE THE OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

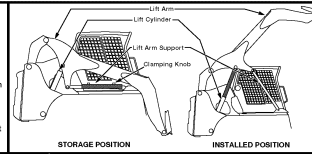
SW 02 6560573

6560573

**PUSH TO RELEASE STOP**

6578368

- 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.
- SW 02 6732774



- 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.
- SW 02 6732774

6732774  
(On Lift Arm Support Device)

**DANGER**

**AVOID DEATH**

- Disconnecting or loosening any hydraulic tube, hose, fitting, component or a part failure can cause lift arms to drop.
- Keep out of this area when lift arms are raised unless supported by an approved lift arm support. Replace if damaged.

SW 02 6717343

6717343 (2)  
(Under Cab)



6595014 (5)

**DO NOT Add Ethylene Glycol Coolant COOLANT SYSTEM PROTECTED TO -34°F (-37°C) WITH BOBCAT PG COOLANT (Propylene Glycol)**

Check Condition With Refractometer See Operation and Maintenance Manual

SW 02 6708929

6708929

**WARNING**

**AVOID INJURY**

- Engine area has rotating parts.
- Keep cover in place.
- See service manual for more instructions.

SW 02 6708941

6708941

**WARNING**

**SERVICE CHECKLIST AND SCHEDULE**

**GENERAL LUBRICATION DIAGRAMS**

SW 02 6734534

6734534

Inside Engine Compartment

B-16374

## INSTRUMENT PANEL IDENTIFICATION (CONT'D)

### Option And Field Accessory Panels (If Equipped)

Figure OI-6

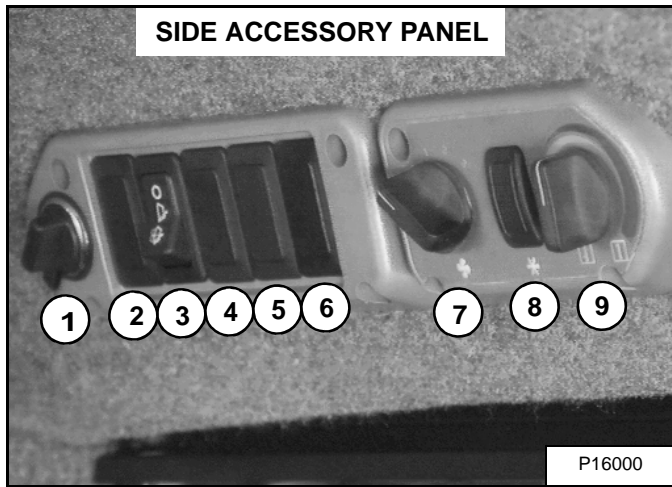
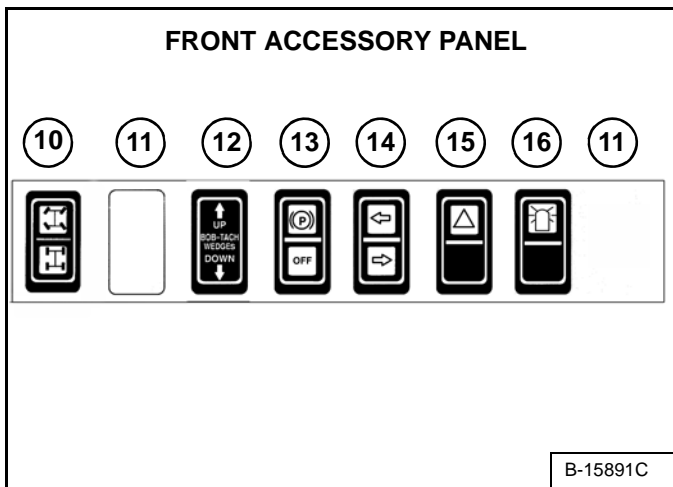


Figure OI-7



Side Accessory Panel [Figure OI-6].

REF. NO.	DESC.	FUNCTION/OPERATION
1.	POWER PLUG	Provides a 12V receptacle for accessories.
2.	NOT USED	- - -
3.	FRONT WIPER	Press the top of the switch to start the front wiper (press and hold for washer fluid). Press the bottom of the switch to stop the wiper.
4.	REAR WIPER	Press the bottom of the switch to start the rear wiper. Press the top of the switch to provide washer fluid to clean the rear window.
5.	NOT USED	- - -
6.	NOT USED	- - -
7.	FAN MOTOR	Turn clockwise to increase fan speed; counterclockwise to decrease. There are four positions; OFF-1-2-3.
8.	AIR COND. SWITCH	Press top of switch to start; bottom to stop. Fan Motor (Item 7) must be ON for A/C to operate.
9.	TEMP. CONTROL	Turn clockwise to increase the temperature; counterclockwise to decrease.

Front Accessory Panel [Figure OI-7]

REF. NO.	DESC.	FUNCTION/OPERATION
10.	ALL WHEEL STEER (AWS) / SKID-STEER SELECTOR	Press top of switch to select All Wheel Steer; bottom for Skid-Steer
11.	NOT USED	- - -
12.	POWER BOB-TACH (If Equipped)	Press and hold the up arrow to disengage the the Bob-Tach wedges. Press and hold the down arrow to engage the wedges into the mounting frame holes.
13.	PARKING BRAKE	Press the top to engage the PARKING BRAKE; bottom to disengage.
14.	TURN SIGNAL INDICATORS	Indicates left or right TURN SIGNALS are ON.
15.	HAZARD LIGHTS	Press the left side (or top) to turn the HAZARD LIGHTS ON; right side (or bottom) to turn OFF.
16.	ROTATING BEACON	Press the left side (or top) to turn the ROTATING BEACON ON; right side (or bottom) to turn OFF.

## HYDRAULIC CONTROLS (CONT'D)

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

Figure OI-26

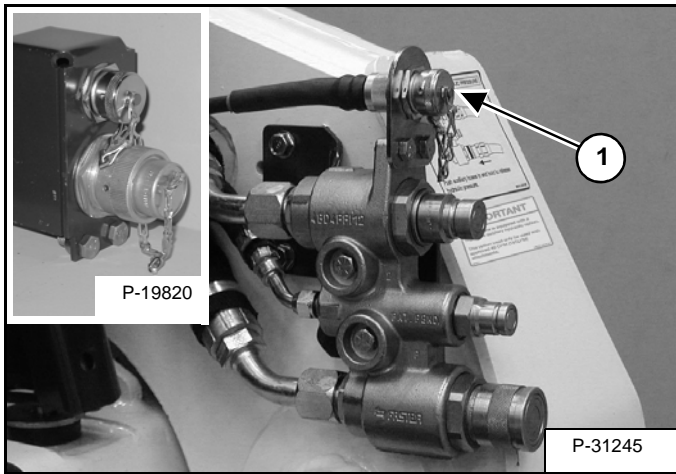
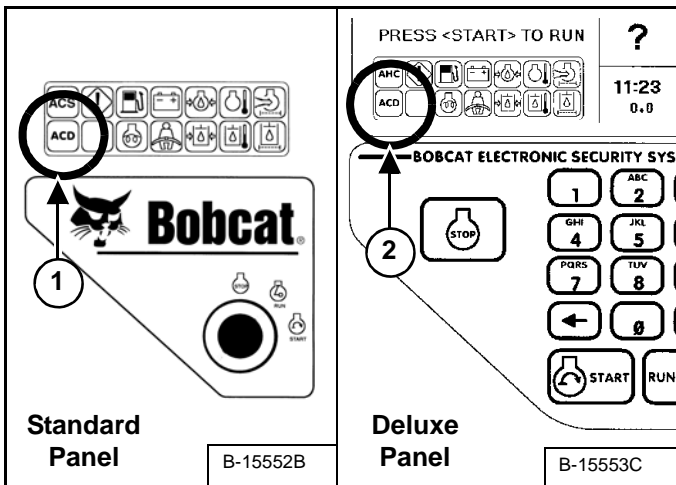


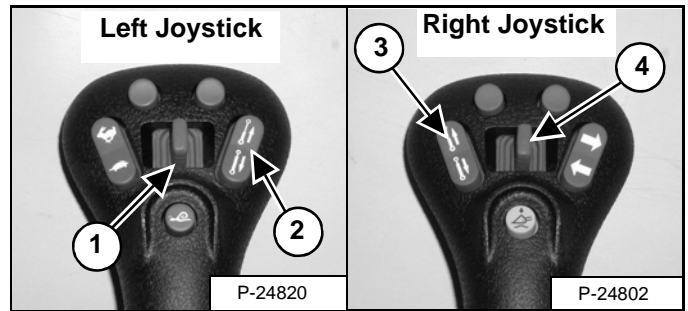
Figure OI-27



When ACD (Item 1) [Figure OI-26] is installed, the ACD Icon light (Item 1) [Figure OI-27] (Standard Panel) or (Item 2) [Figure OI-27] (Deluxe panel) on the right instrument panel will be ON when a 7-pin electric controlled attachment is installed.

You will need the Dual-Connector (7-pin / 14-pin) kit (Inset) [Figure OI-26] to operate early model attachments. See your Bobcat Loader dealer.

Figure OI-28



You can use additional switches (Items 1 through 4) [Figure OI-28] on the right and left control handles for functions which control some attachments.

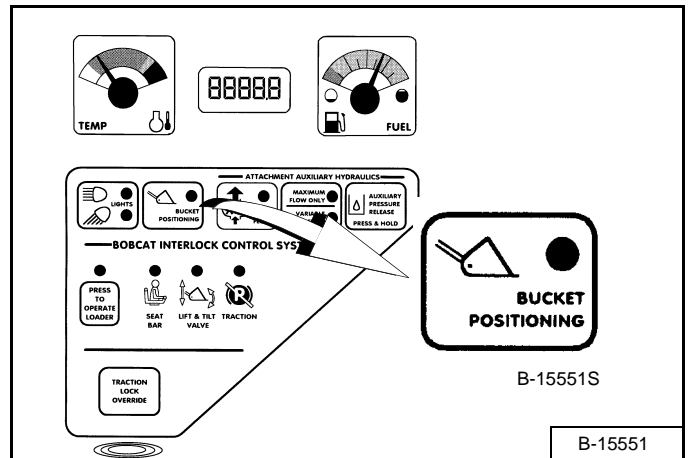
**NOTE:** When the Dual-Connector Kit is installed, the ACD Icon light [Figure OI-27], in the right instrument panel will be on.

**NOTE:** When a 7-pin Attachment, which requires High-Flow, is connected to the loader harness, the Attachment Control Device (ACD) will automatically select High-Flow auxiliary hydraulics.

See the appropriate Attachment Operation & Maintenance Manual for control details.

### Bucket Position Valve Operation (If Equipped)

Figure OI-29



The function of the bucket position valve is to keep the bucket in the same approximate position it is in before you begin raising the lift arms.

Press *BUCKET POSITIONING* button [Figure OI-29] to engage the bucket position function. (The light will be on.) Press again to disengage.

Bucket Positioning functions only during upward lift cycle.

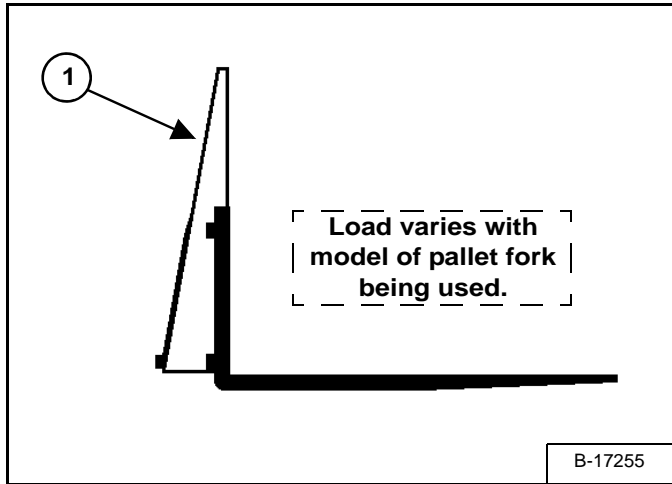
### SHUTDOWN FEATURE

Press and hold the BUCKET POSITIONING button (Item 2) [Figure OI-25] for 2 seconds. Shtdn will appear in the HOURMETER/CODE DISPLAY (Item 3) [Figure OI-25]. (Operational Code will also appear.)

## ATTACHMENTS AND BUCKETS (CONT'D)

### Pallet Forks

Figure OI-45



If a pallet fork attachment is used, the load center moves forward and reduces the Rated Operating Capacity.

The maximum load to be carried when using a pallet fork is shown on a decal located on the pallet fork frame (Item 1) [Figure OI-45].

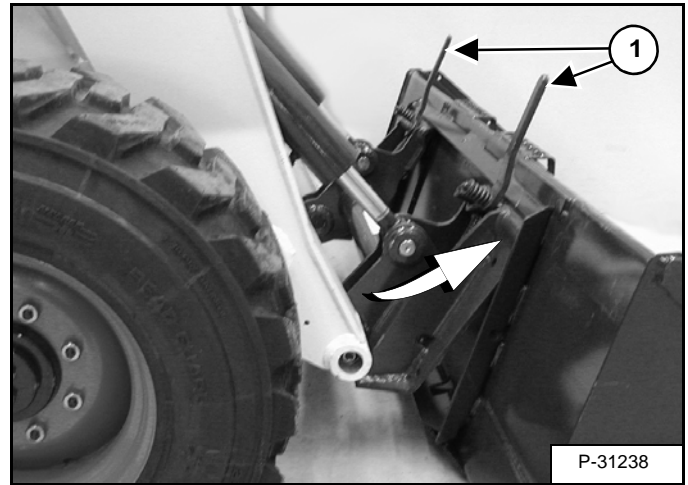


See your Bobcat Dealer for more information about pallet fork inspection, maintenance and replacement. See your Bobcat Loader dealer for Rated Operating Capacity when using a pallet fork and for other available attachments.

### Hand Lever Bob-Tach - Installing The Bucket Or Attachment

The Bob-Tach is used for fast changing of buckets and attachments. See the appropriate Attachment Operation & Maintenance Manual to install other attachments.

Figure OI-46



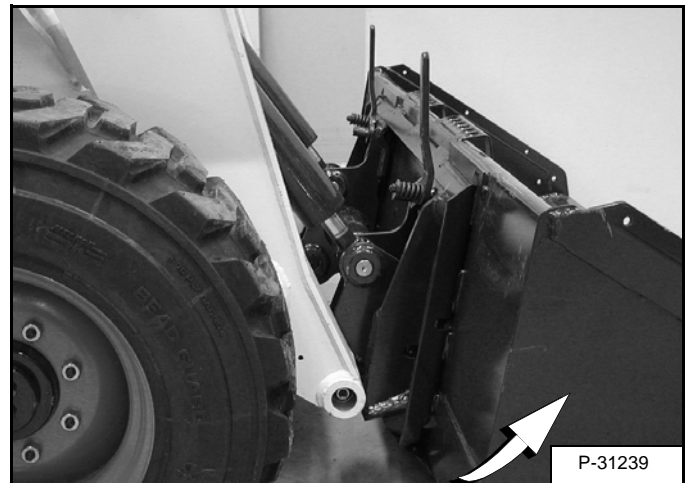
Pull the Bob-Tach levers all the way up (Item 1) [Figure OI-46].

Enter the loader and perform the PRE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURES on Page OI-21.)

Lower the lift arms and tilt the Bob-Tach forward.

Drive the loader forward until the top edge of the Bob-Tach is completely under the top flange of the bucket [Figure OI-46] (or other attachment). Be sure the Bob-Tach levers do not hit the bucket.

Figure OI-47



Tilt the Bob-Tach backward until the cutting edge of the bucket (or other attachment) is slightly off the ground [Figure OI-47].

Stop the engine and exit the loader.

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## TRANSPORTING THE BOBCAT LOADER

### Loading Onto Transport Vehicle



Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

W-2058-0494

Be sure the transport and towing vehicles are of adequate size and capacity. For weight of loader (See LOADER SPECIFICATIONS (A300) on Page SPEC-3.)

Figure OI-69

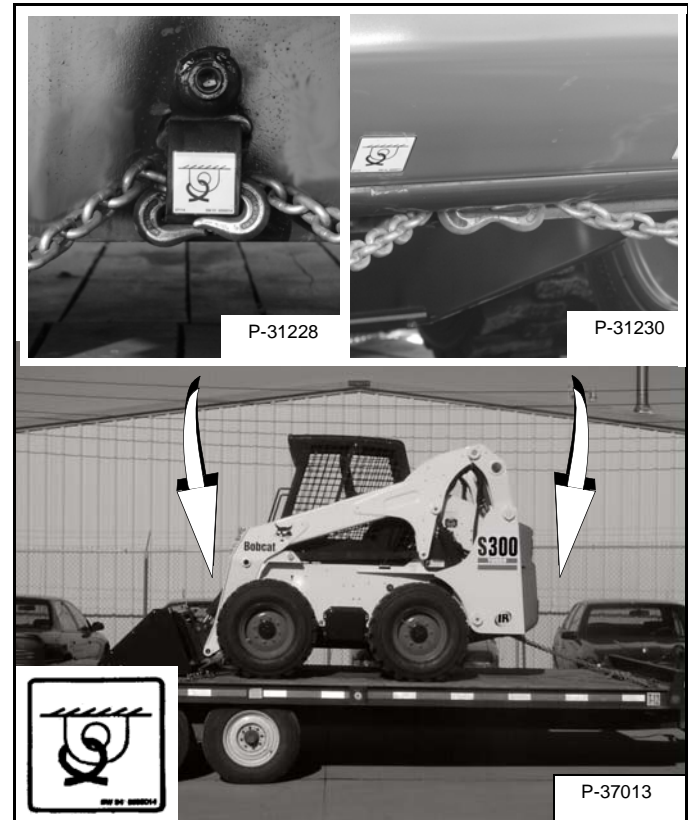


A loader with an empty bucket or no attachment must be loaded backward onto the transport vehicle [Figure OI-69].

The rear of the trailer must be blocked or supported (Item 1) [Figure OI-69] when loading or unloading the loader to prevent the front end of the trailer from raising up.

### Fastening To Transport Vehicle

Figure OI-70



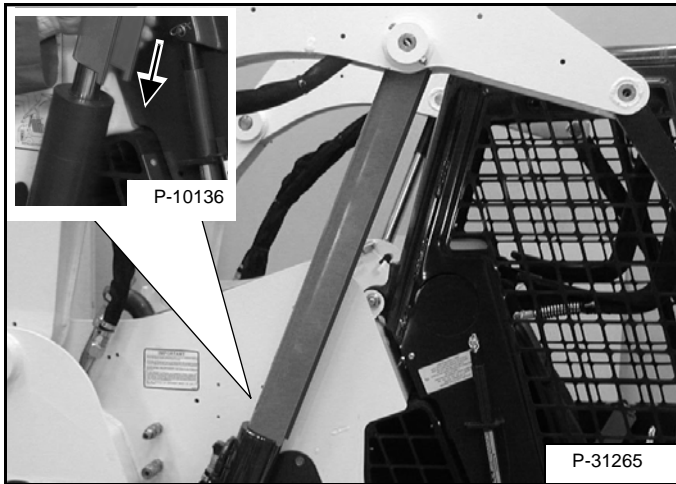
Use the following procedure to fasten the Bobcat Loader to the transport vehicle to prevent the loader from moving during sudden stops or when going up or down slopes [Figure OI-70].

- Lower the bucket or attachment to the floor.
- Stop the engine.
- Engage the parking brake.
- Install chains at the front and rear loader tie down positions [Figure OI-70]
- Fasten each end of the chain to the transport vehicle.

## LIFT ARM SUPPORT DEVICE (CONT'D)

### Installing The Lift Arm Support Device (Cont'd)

Figure PM-3



Lower the lift arms slowly until the lift arm support device is held between the lift arms and the lift cylinder [Figure PM-3]. The tabs of the lift arm support device must go under the cylinder (Inset) [Figure PM-2].

<p><b>⚠ DANGER</b></p> <p><b>AVOID DEATH</b></p> <ul style="list-style-type: none"><li>• Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause lift arms to drop.</li><li>• Keep out of this area when lift arms are raised unless supported by an approved lift arm support. Replace if damaged. 57051</li></ul>	
---	--

### Removing The Lift Arm Support Device

The operator must be in the operator's seat, with the seat belt fastened and seat bar lowered, until the lift arm support device is removed and the lift arms are lowered all the way.

Start the engine and raise the lift arms all the way up.

Have a second person remove the lift arm support device.

Lower the lift arms all the way and stop the engine.

Return the lift arm support device to the storage position and secure with clamping knobs.

Remove the jackstands.

## AIR CLEANER (CONT'D)

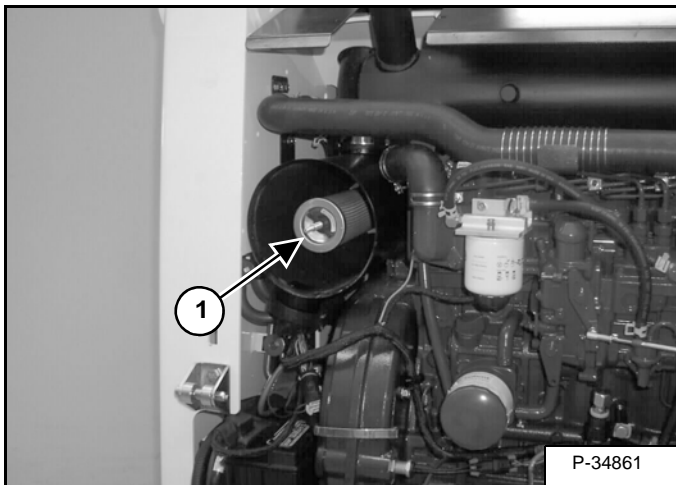
### Replacing Filter Elements (Cont'd)

#### Inner Filter

Only replace the inner filter element under the following conditions:

- Replace the inner filter element every *third* time the outer filter is replaced.
- After the outer element has been replaced, start the engine and run at full RPM. If the HOURMETER / CODE DISPLAY shows **[01-17]** (Air Filter Plugged), replace the inner filter element.

Figure PM-27



Remove the inner filter element (Item 1) [Figure PM-27].

**NOTE: Make sure all sealing surfaces are free of dirt and debris.**

Install the new inner element [Figure PM-27].

Install the dust cover and the wing nut.

## FUEL SYSTEM

### Fuel Specifications

Use only clean, high quality diesel fuel, Grade No. 2 or Grade No. 1.

The following is one suggested blending guideline which should prevent fuel gelling during cold temperatures:

TEMP F (C)	NO. 2	NO. 1
+15° (9°)	100%	0%
Down to -20° (-29°)	50%	50%
Below -20° (-29°)	0%	100%

Contact your fuel supplier for local recommendations.

### Filling The Fuel Tank

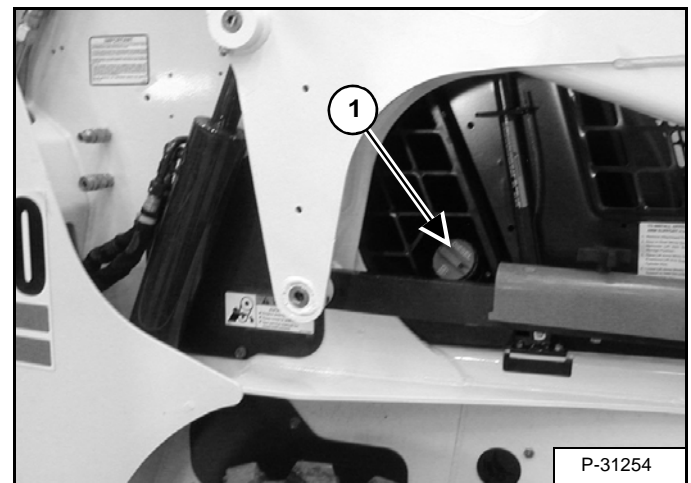


**Stop and cool the engine before adding fuel. NO SMOKING! Failure to obey warnings can cause an explosion or fire.**

W-2063-0887

Open the rear door.

Figure PM-28



Remove the fill cap (Item 1) [Figure PM-28].

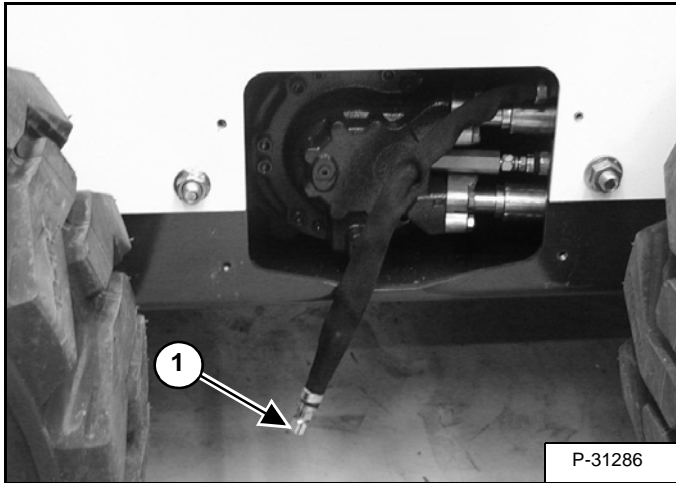
Use a clean, approved safety container to add fuel of the correct specification. Add fuel only in an area that has free movement of air and no open flames or sparks **NO SMOKING**.

Install and tighten the fuel cap (Item 1) [Figure PM-28].

## HYDRAULIC / HYDROSTATIC SYSTEM (CONT'D)

### Replacing Hydraulic Fluid, Case Drain Filters and Steering Filter (Cont'd)

Figure PM-49



Pull the reservoir drain hose out the left motor cover hole. Remove the plug (Item 1) [Figure PM-49] and drain the fluid into a container.

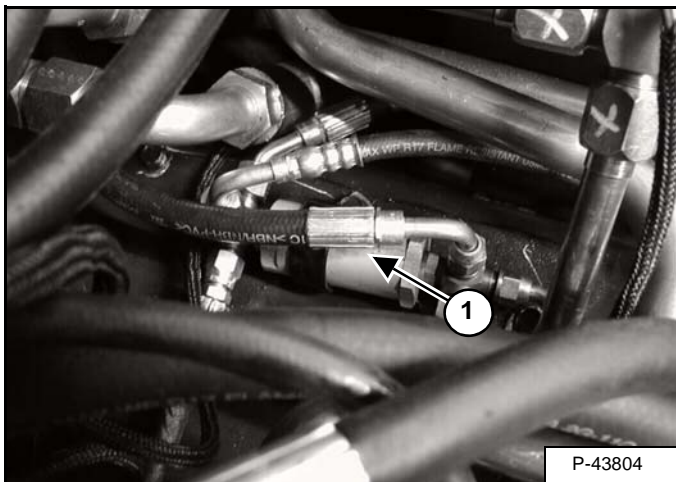
Recycle or dispose of used fluid in an environmentally safe manner.



**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-2103-1285

Figure PM-50

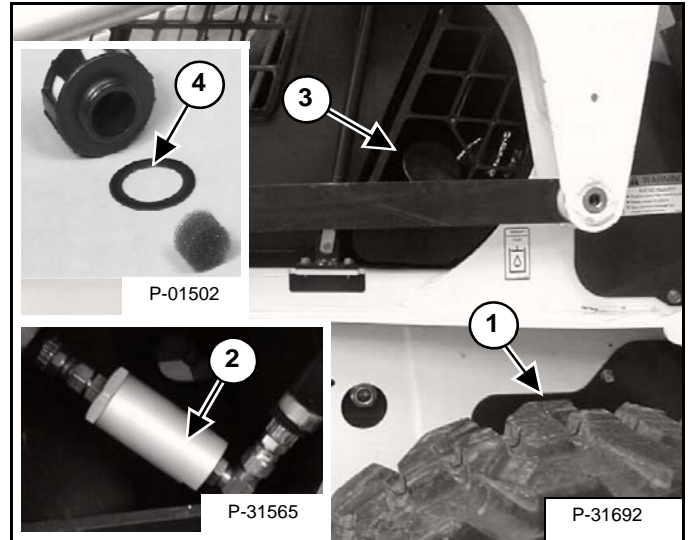


Disconnect the hoses from the hydrostatic motor case drain filter (Item 1) [Figure PM-50], remove the filter and discard.

Install a new filter; connect and tighten the hoses.

Install the plug in the reservoir drain hose and tighten. Install the motor cover.

Figure PM-51

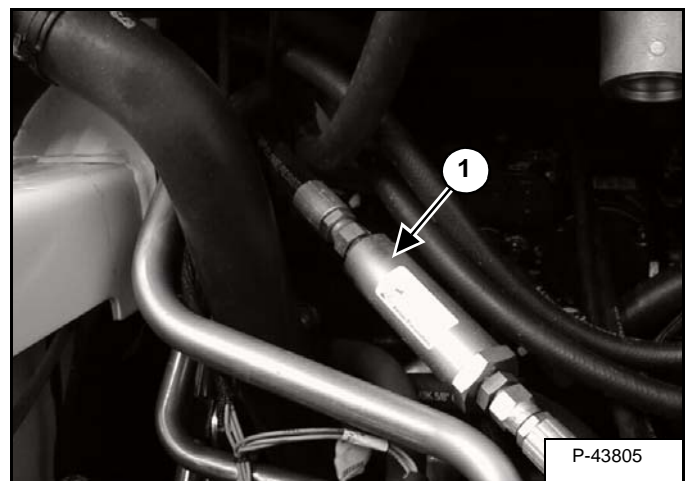


Remove the left lower side cover (Item 1) [Figure PM-51].

Remove and replace the attachment case drain filter (Item 2) [Figure PM-51].

Add the correct fluid to the reservoir until the fluid level is at the center of the sight gauge. (See Checking And Adding Fluid on Page PM-27.)

Figure PM-52

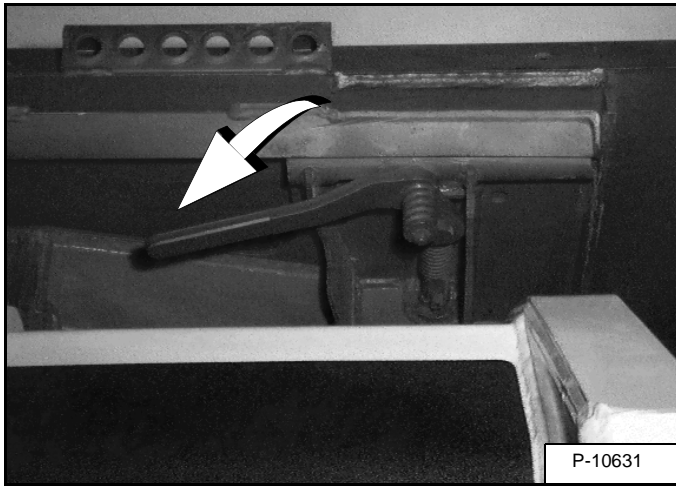


Remove and replace the steering filter (Item 1) [Figure PM-52]

## BOB-TACH (HAND LEVER)

### Inspection And Maintenance

Figure PM-77



Move the Bob-Tach levers down to engage the wedges [Figure PM-77].

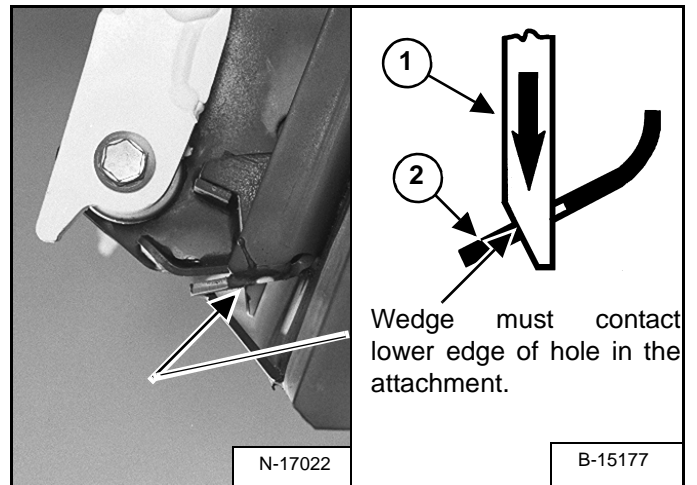
The levers and wedges must move freely.



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-78

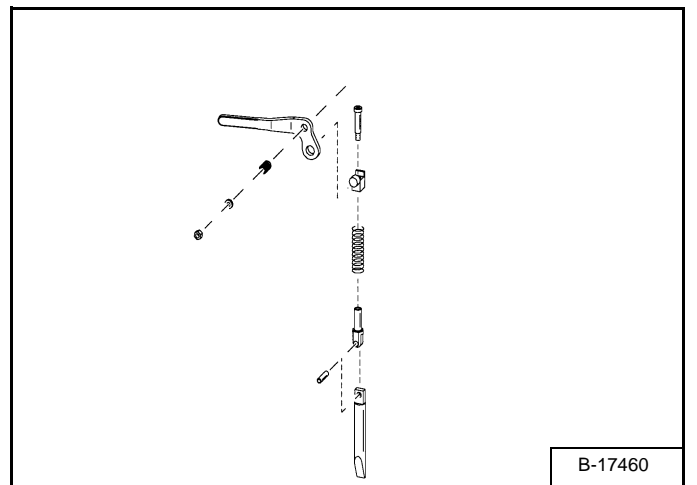


The wedges (Item 1) [Figure PM-78] must extend through the holes in the attachment mounting frame.

The spring loaded wedge (Item 1) [Figure PM-78] must contact the lower edge of the hole in the attachment (Item 2) [Figure PM-78].

If the wedge does not contact the lower edge of the hole [Figure PM-78], the attachment will be loose and can come off the Bob-Tach.

Figure PM-79



Inspect the mounting frame on the attachment and Bob-Tach, linkages and wedges for excessive wear or damage [Figure PM-79]. 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.

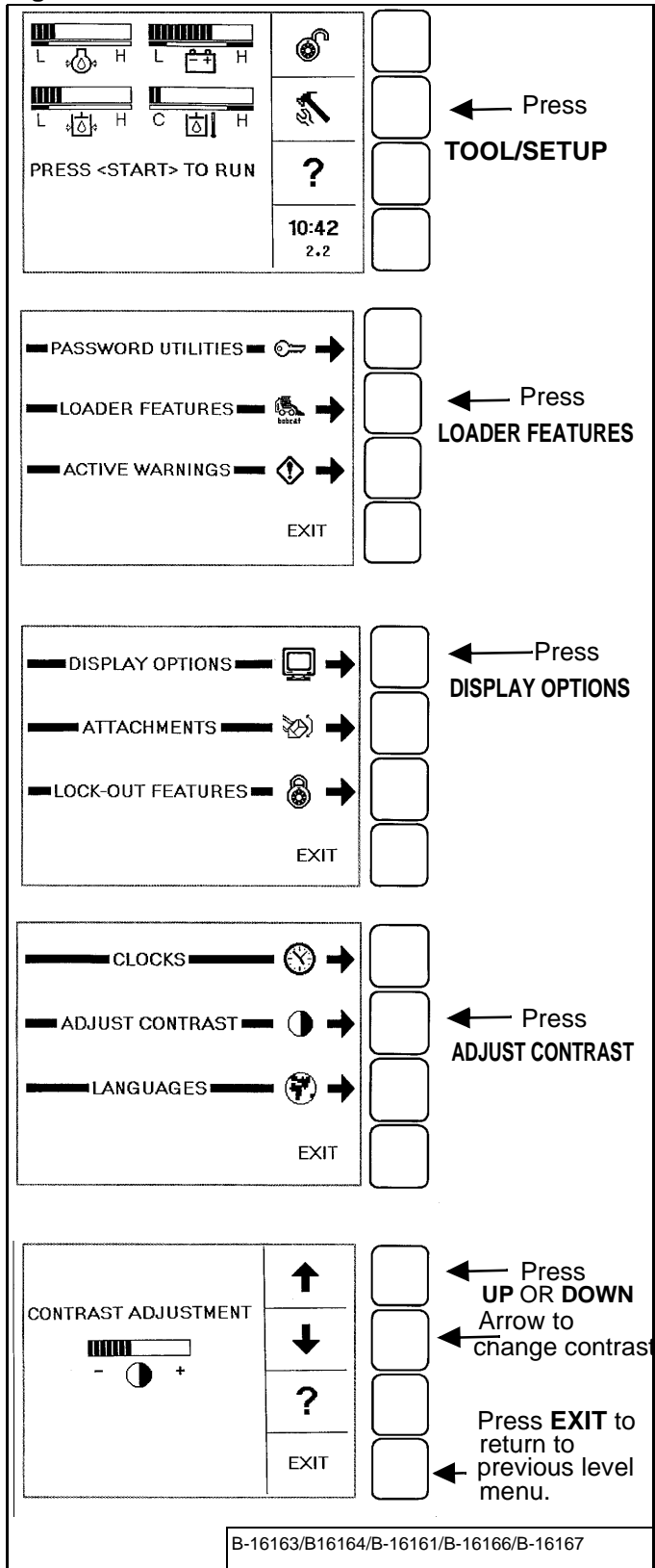
Lubricate the wedges. (See SERVICE SCHEDULE on Page PM-7.) (See LUBRICATING THE BOBCAT LOADER on Page PM-36.)

## DELUXE INSTRUMENT PANEL SETUP (CONT'D)

### Deluxe Panel Setup

#### Display Options

Figure SA-3



All new machines with Deluxe Instrumentation arrive at Bobcat Dealerships with the panel in locked mode. This means that a password must be used to start the engine [Figure SA-3].

### Passwords (Deluxe)

For security purposes, your dealer may change the password and also set it in the locked mode. Your dealer will provide you with the password.

#### Owner Password:

Allows for full use of the loader and to setup the Deluxe Panel. Owner can select a password to allow starting & operating the loader and modify the setup of the Deluxe Panel. Owner should change the password as soon as possible for security of the loader.

#### User Password:

Allows starting and operating the loader; cannot change password or any of the other setup features.

## IMPORTANT (6560573)


<b>IMPORTANT</b>	
THIS MACHINE IS FACTORY EQUIPPED WITH A U.S.D.A. FORESTRY SERVICE APPROVED SPARK ARRESTOR EXHAUST SYSTEM.	
THE SPARK ARRESTOR MUFFLER, IF EQUIPPED, MUST BE CLEANED TO KEEP IT IN WORKING CONDITION. THE SPARK ARRESTOR MUFFLER MUST BE SERVICED BY DUMPING THE SPARK CHAMBER EVERY 100 HRS OF OPERATION.	
ON SOME MODELS, THE TURBOCHARGER FUNCTIONS AS THE SPARK ARRESTOR AND MUST OPERATE CORRECTLY FOR PROPER SPARK ARRESTOR FUNCTION.	
IF THIS MACHINE IS OPERATED ON FLAMMABLE FOREST, BRUSH, OR GRASS COVERED LAND, IT MUST BE EQUIPPED WITH A SPARK ARRESTOR ATTACHED TO THE EXHAUST SYSTEM AND MAINTAINED IN WORKING ORDER. FAILURE TO DO SO WILL BE IN VIOLATION OF CALIFORNIA STATE LAW, SECTION 4442. PRC. REFER TO LOCAL LAWS AND REGULATIONS FOR SPARK ARRESTOR REQUIREMENTS.	
SEE THE OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.	
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<b>IMPORTANTE</b>	
ESTA MÁQUINA VIENE EQUIPADA DESDE LA FABRICA CON UN SILENCIADOR DEL SISTEMA PARACHISPAS DEL SERVICIO DE REFORESTACION DE LA U.S.D.A.	
DEBE LIMPIAR ESTE SILENCIADOR DEL SISTEMA PARACHISPAS PARA MANTENERLO EN CONDICIONES DE TRABAJO. ESTE SILENCIADOR DEBE REPARARSE VACIANDO LA CAMARA DE CHISPAS CADA 100 HORAS DE OPERACION.	
SI VA A OPERAR ESTA MÁQUINA EN BOSQUES INFLAMABLES O EN TERRENOS CUBIERTOS DE RAMAS O CESPED, DEBE DISPONER DE UN SISTEMA PARACHISPAS EN EL SISTEMA DE ESCAPE Y MANTENERLO EN BUENAS CONDICIONES DE TRABAJO. NO CUMPLIR ESTA ADVERTENCIA INFRINGIRÁ LA SECCION 4442 DE LA LEY DEL ESTADO DE CALIFORNIA. CONSULTE LAS LEYES Y REGLAMENTOS LOCALES ACERCA DE LOS REQUERIMIENTOS PARA UTILIZAR SISTEMAS PARACHISPAS.	
CONSULTE EL MANUAL DE OPERACION Y MANTENIMIENTO PARA MAYORES INSTRUCCIONES.	
30933	SW 01 6560573 AR

<b>IMPORTANT</b>	
CETTE MACHINE EST EQUIPEE A LA SORTIE DE L'USINE D'UN SILENCIEUX PARE-ETINCELLES APPROUVE PAR LE SERVICE DES EAUX ET FORETS DES ETATS-UNIS. IL EST NECESSAIRE DE NETTOYER REGULIEREMENT CE SILENCIEUX POUR LE GARDER EN BON ETAT. L'ENTRETIEN CONSISTE A VIDER LA CHAMBRE A ETINCELLES TOUTES LES 100 HEURES DE MARCHÉ.	
SI LA MACHINE EST UTILISEE SUR UN TERRAIN COUVERT D'ARBRES, DE BROUSSAILLES OU D'HERBAGES INFLAMMABLES, IL FAUT MONTER LE PARE-ETINCELLES ET LE GARDER EN BON ETAT DE MARCHÉ.	
CONSULTEZ LES REGLEMENTATIONS LOCALES EN VIGUEUR ET LE MANUEL DE L'OPERATEUR ET D'ENTRETIEN POUR D'AUTRES RENSEIGNEMENTS.	
39933	DV-99-6560573-FR

## WARNING (6732696)

	<b>WARNING</b>	
<b>AVOID INJURY OR DEATH</b>		
<ul style="list-style-type: none"><li>• Never carry riders.</li><li>• Never use loader as a man lift or work platform.</li></ul>		
56885		SW 02 6732696

	<b>ADVERTENCIA</b>	
<b>EVITE LESIONES O LA MUERTE</b>		
<ul style="list-style-type: none"><li>• Nunca lleve pasajeros.</li><li>• Nunca use el cargador como elevador o plataforma de trabajo.</li></ul>		
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	<b>AVERTISSEMENT</b>	
<b>EVITER DES BLESSURES GRAVES, VOIRE MORTELLES</b>		
<ul style="list-style-type: none"><li>• Ne transportez jamais de passagers.</li><li>• N'utilisez jamais la chargeuse comme plate-forme élévatrice ou de travail.</li></ul>		
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