

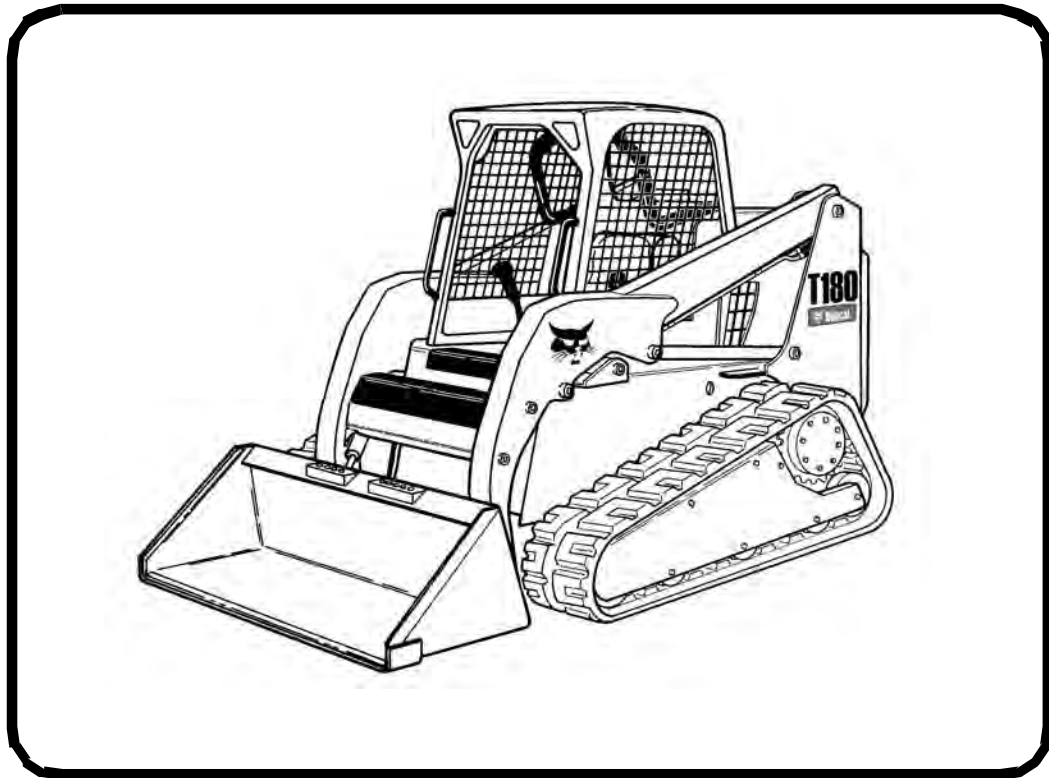


Bobcat®

Operation & Maintenance Manual T180 Compact Track Loader

S/N 531411001 - 531459999

S/N 531511001 - 531559999



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

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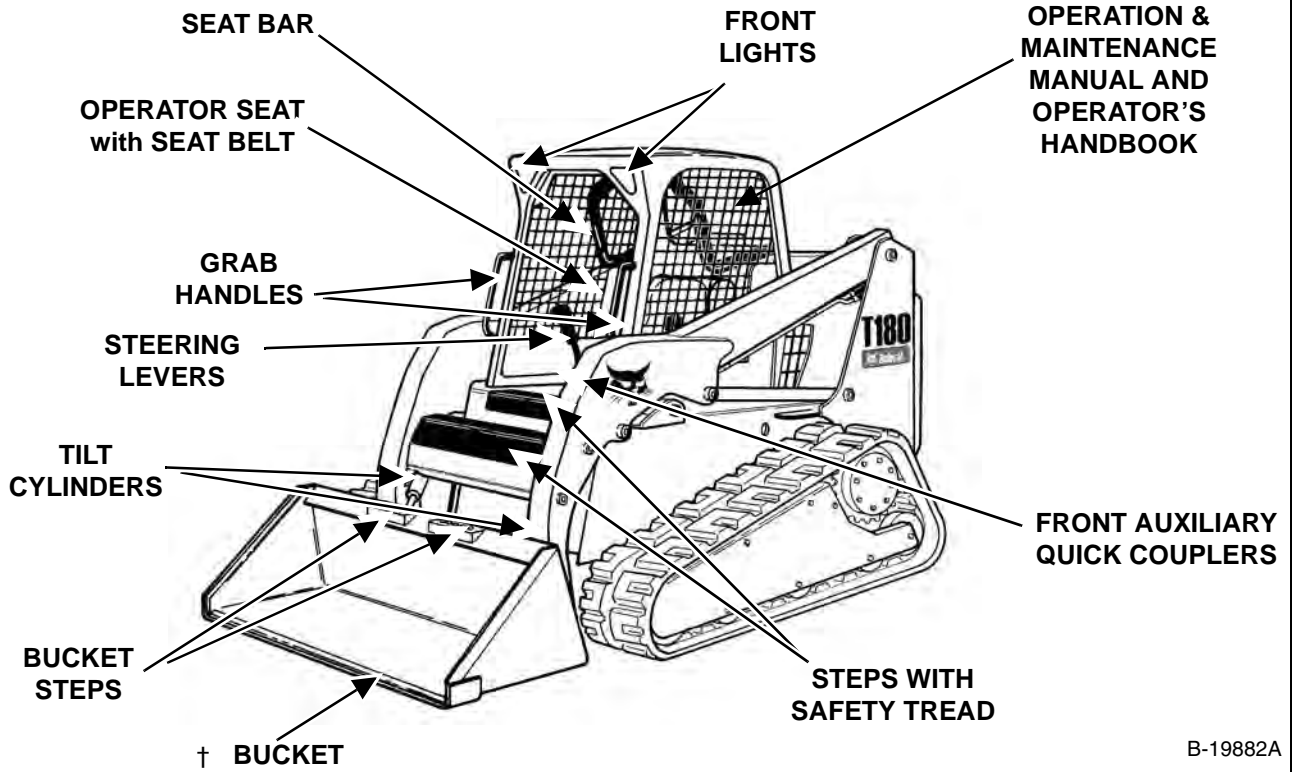
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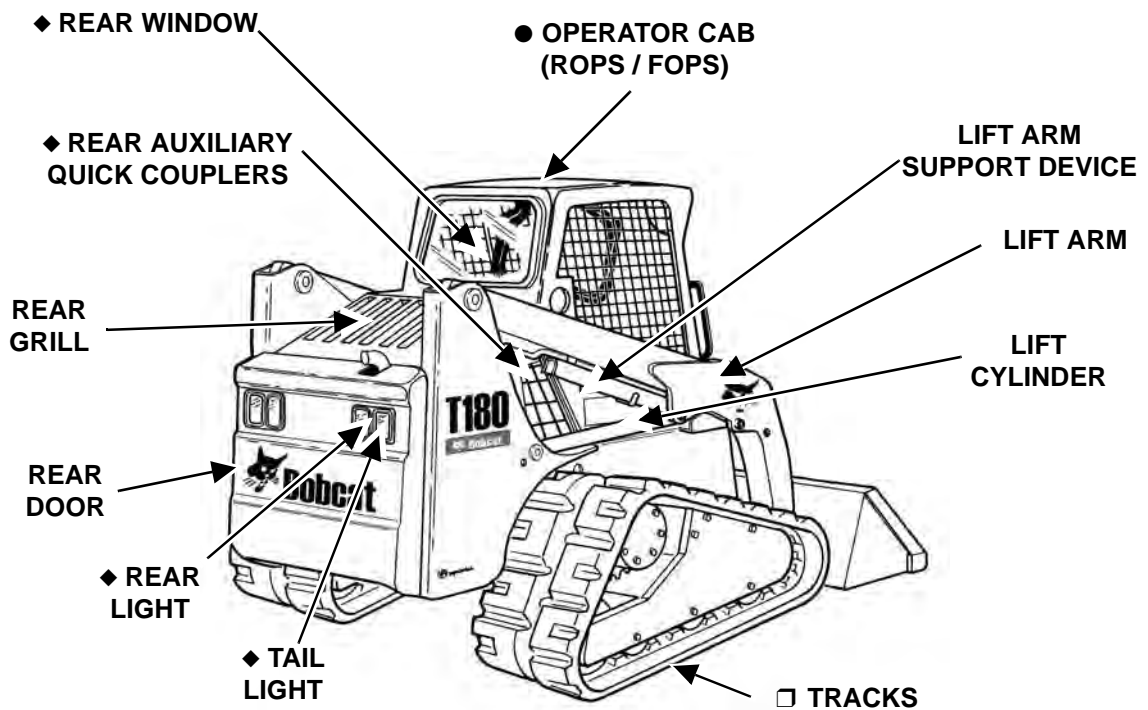
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LOADER IDENTIFICATION



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.

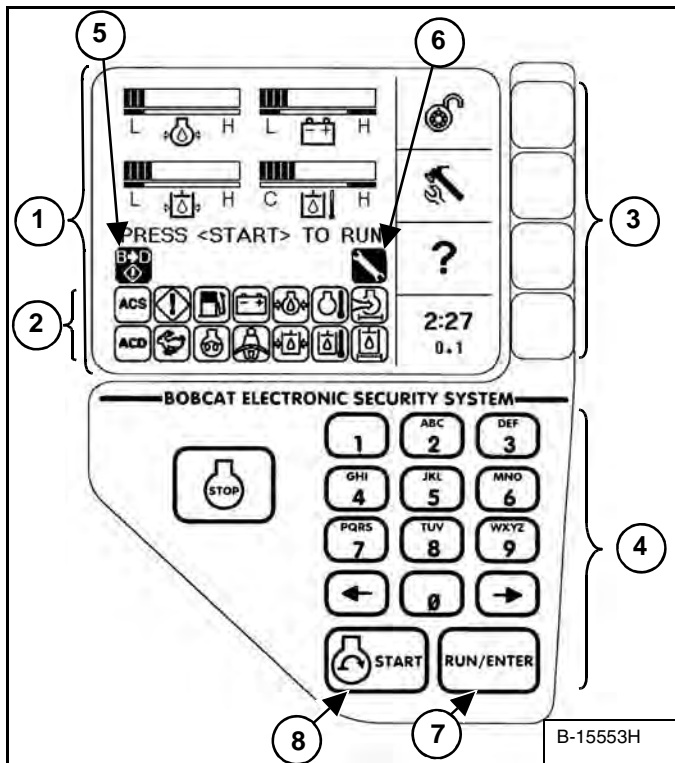


Bobcat®

INSTRUMENT PANEL IDENTIFICATION (CONT'D)

Right Panel (Keyless)

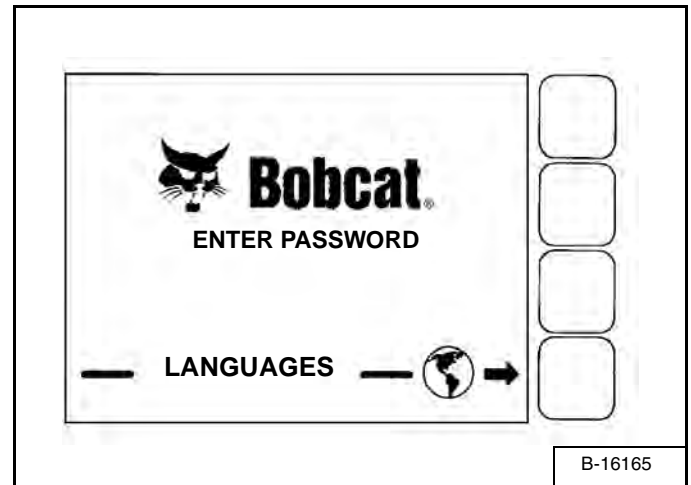
Figure OI-3



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 PMSM 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 Panel 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: Use the Keypad to enter the numbers (letters) of your password and press the RUN / ENTER key (Item 7) [Figure OI-3].

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.

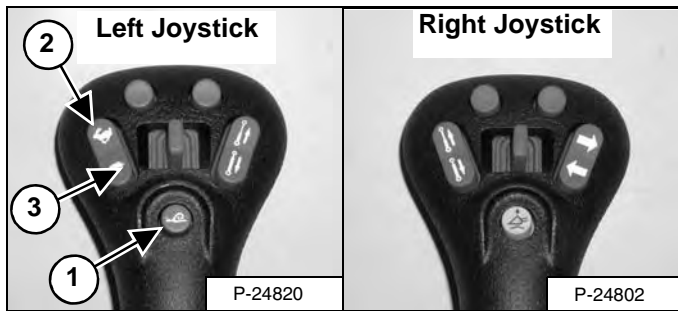
SPEED MANAGEMENT

Speed Management is available on SJC equipped machines.

Operation

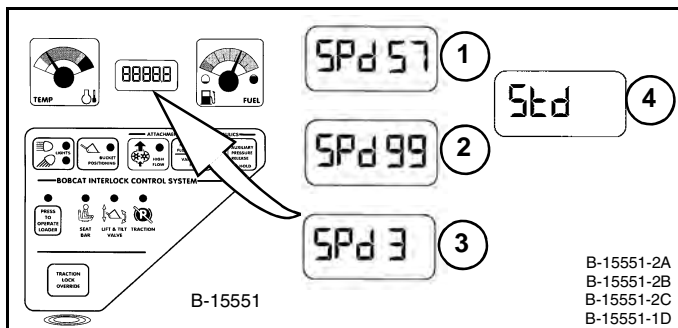
Speed Management allows the loader to be maneuvered at slow travel speed for installing attachments, loading or unloading, and work applications such as trenching, tilling and landscaping.

Figure OI-27



Press the button (Item 1) [Figure OI-27] on the left joystick once to engage Speed Management.

Figure OI-28



When Speed Management is engaged, the machine will travel at 57 % of Standard travel speed and the percentage [SPd 57] will appear in the display (Item 1) [Figure OI-28].

While Speed Management is engaged, press the top of the Speed Control switch (Item 2) [Figure OI-27] to increase the speed up to 99% [SPd 99] or the bottom of the switch (Item 3) [Figure OI-27] to decrease the speed down to 3% [SPd 3]. The percentages will appear in the display (Items 1, 2 and 3) [Figure OI-28].

Press button (Item 1) [Figure OI-27] again to disengage Speed Management and return to Standard Travel Speed ([Std] (Item 4) [Figure OI-28] will appear in display.)

NOTE: Early model loaders will show Snd in the display [Figure OI-28] instead of SPd.

The system will retain the speed percentage as long as the key remains ON (Key Switch Panel) or the STOP button has not been pressed (Keyless Panel).

EXAMPLE: You can be using the machine at 40% and then disengage Speed Management to reposition the loader, then re-engage Speed Management. The speed percentage will still be at 40%.

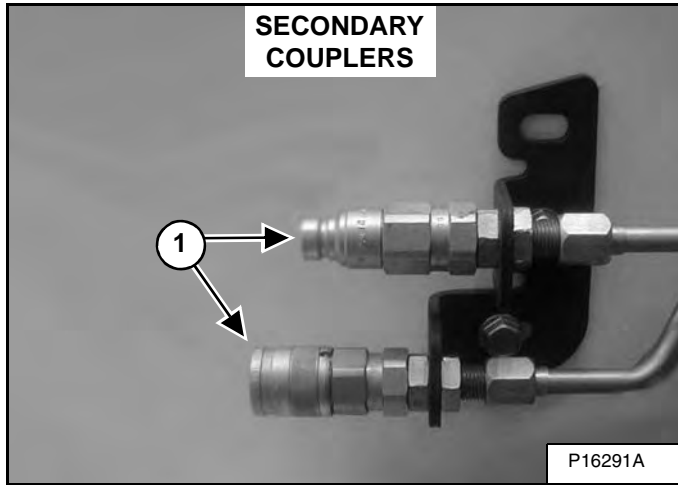
EXAMPLE: If you turn the key OFF or press the STOP button, the next time you start the engine and engage Speed Management, the speed will be at 57% of Standard Travel Speed. Press button (Item 1) [Figure OI-27] to resume Speed Management Operation.

HYDRAULIC CONTROLS (CONT'D)

Secondary Front Auxiliary Hydraulics

This machine may be equipped with Secondary Front Auxiliary Hydraulics.

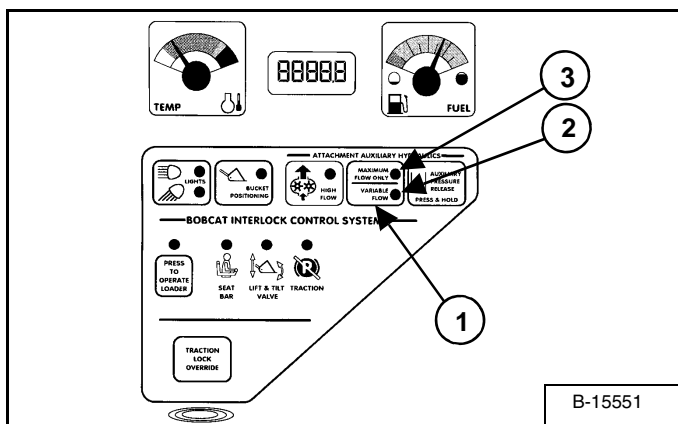
Figure OI-52



The secondary front auxiliary quick couplers (Item 1) [Figure OI-52] are available as a Field Installed Accessory. These are used when there is a need for additional auxiliary hydraulics. (EXAMPLE: Side shift on the Planer.)

Connect the attachment to the secondary front auxiliary hydraulics (Item 1) [Figure OI-52].

Figure OI-53



Set the Auxiliary Hydraulics button for *Variable Flow* or *Maximum Flow Only*.

Press the auxiliary hydraulics button (Item 1) [Figure OI-53] once for *VARIABLE FLOW* or twice for *MAXIMUM FLOW ONLY*.

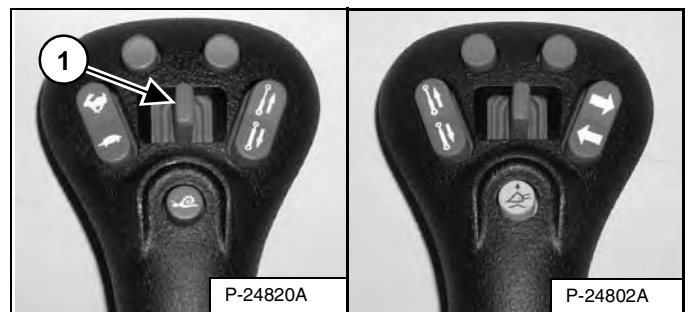
Standard and ACS (If Equipped)

Figure OI-54



SJC (If Equipped)

Figure OI-55



Push switch (Item 1) [Figure OI-54] or [Figure OI-55] 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 an attachment with secondary front auxiliary hydraulics, you must disconnect any attachment connected to the rear auxiliary hydraulic quick couplers.

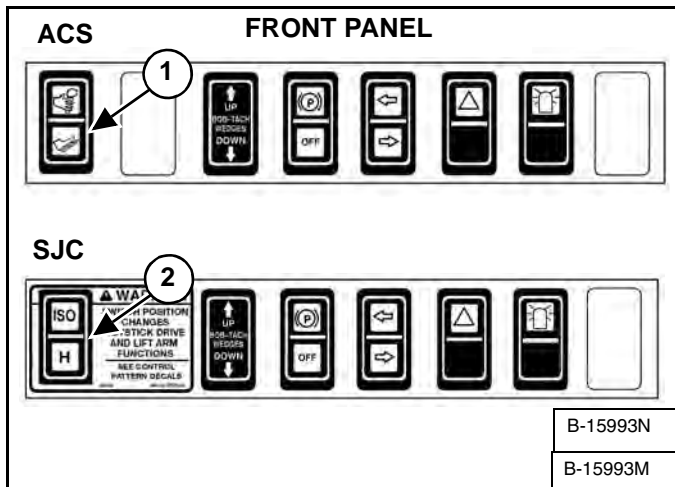
To disengage, press the auxiliary hydraulics button (Item 1) until both lights (Items 2 and 3) [Figure OI-53] are off.

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

STARTING THE ENGINE (CONT'D)

Keyless (Cont'd)

Figure OI-74

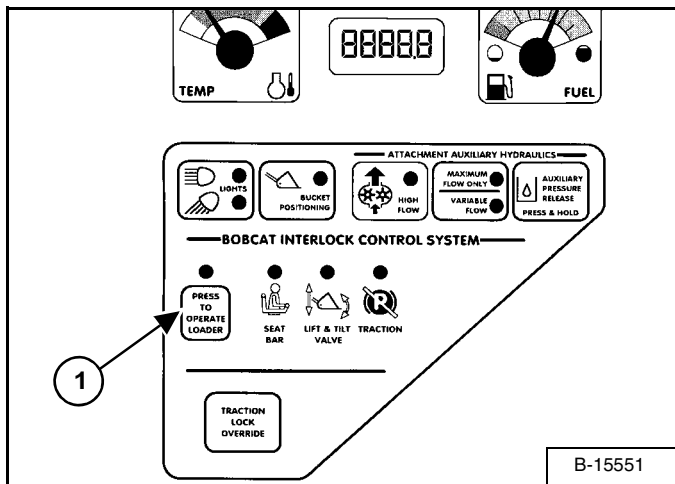


(ACS) Select hand control or foot pedal operation (Item 1) [Figure OI-74].

OR

(SJC) Select 'ISO' or 'H' Control Pattern (Item 2) [Figure OI-74].

Figure OI-75



Press the PRESS TO OPERATE LOADER button (Item 1) [Figure OI-75] to activate the BICS system and to perform hydraulic and loader functions. (See Cold Temperature Starting on Page OI-37.)

NOTE: (SJC) The pending mode will flash which will indicate PRESS TO OPERATE LOADER is required. The light will flash when key is ON and continue to flash until the PRESS TO OPERATE LOADER button is pressed and thereafter it will light solid. If the mode (ISO/H) is changed while driving, the active mode will be solid and the pending mode will flash. When operation of the machine is returned to neutral, the active mode will then turn off and the pending mode will continue to flash until the PRESS TO OPERATE LOADER button is pressed.

! WARNING

AVOID INJURY OR DEATH

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

W-2050-0807

Cold Temperature Starting

! WARNING

AVOID INJURY OR DEATH

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

W-2071-0907

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

- Replace the engine oil with the correct type and viscosity for the anticipated starting temperature. (See ENGINE LUBRICATION SYSTEM on Page PM-25.)
- Make sure the battery is fully charged.
- Install an engine heater, available from your Bobcat Loader dealer.
- Move engine speed control lever halfway before starting. Return to idle position after the engine starts.

NOTE: The LCD of the Keyless Panel may not be immediately visible when the temperature is below -15°F (-26°C). It may take 30 seconds to several minutes for the Display Panel to warm up. All systems remain monitored even when the display is off.

ATTACHMENTS (CONT'D)

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

The wedges (Item 4) [Figure OI-95] must extend through the holes in the mounting frame of the bucket (or attachment), securely fastening the bucket to the Bob-Tach.



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

Removing

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

If the attachment is hydraulically controlled (combination bucket, backhoe, etc.):

Stop the engine and relieve hydraulic pressure in the auxiliary circuit. (See Relieve Hydraulic Pressure (Loader And Attachment) on Page OI-25.)

Exit the loader and disconnect the hydraulic hoses from the attachment.

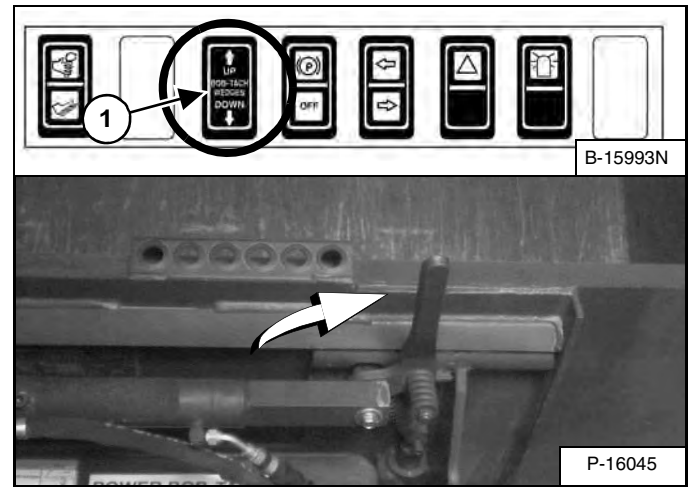
Enter the loader.

Perform the P RE-STARTING PROCEDURE. (See PRE-STARTING PROCEDURE on Page OI-31.)

Start the engine.

Release the parking brake.

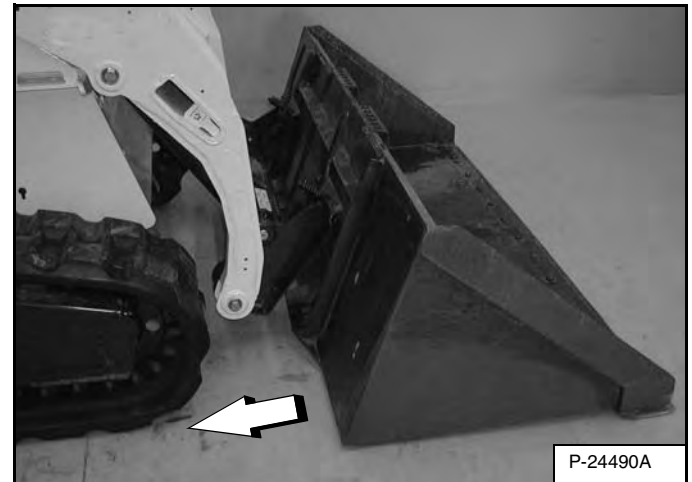
Figure OI-98



Push and hold the BOB-TACH “WEDGES UP” switch (Front Panel) (Item 1) [Figure OI-98] until the wedges are fully raised.

Tilt the Bob-Tach forward.

Figure OI-99



Move the loader backward, away from the bucket or attachment [Figure OI-99].

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) when removing an attachment to be sure both wedges are fully raised.

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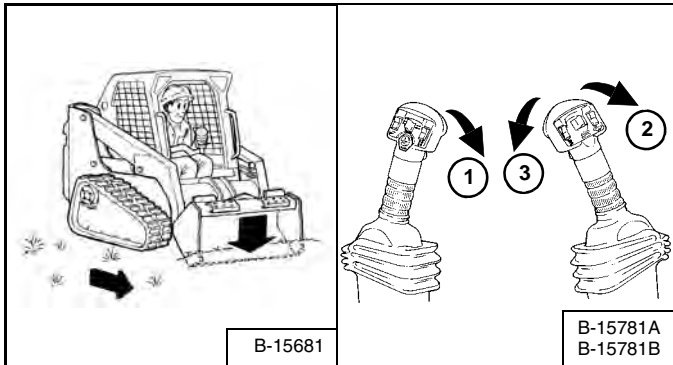
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OPERATING PROCEDURE (CONT'D)

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

Digging

Figure OI-120

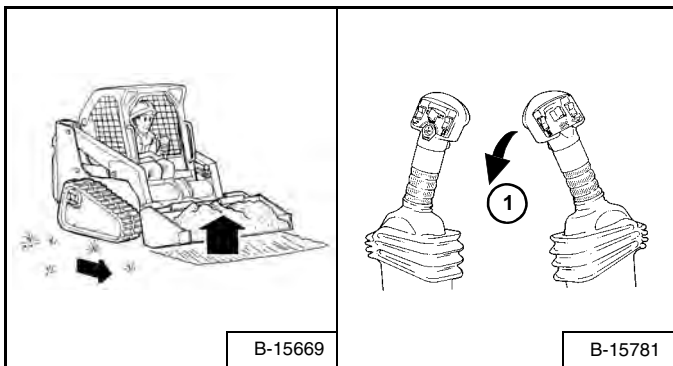


Lower the lift arms all the way (Item 1) [Figure OI-120]. Tilt the bucket forward (Item 2) [Figure OI-120] until the cutting edge of the bucket is on the ground.

Drive forward slowly and continue to tilt the bucket down (Item 2) [Figure OI-120] until it enters the ground.

Tilt the bucket backward a small amount (Item 3) [Figure OI-120] 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 1 & 2) [Figure OI-120] while driving forward.

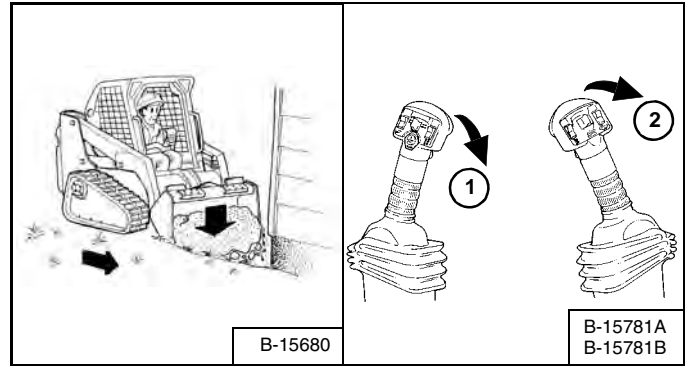
Figure OI-121



Tilt the bucket backward (Item 1) [Figure OI-121] as far as it will go when the bucket is full.

Filling

Figure OI-122



Lower the lift arms (Item 1) [Figure OI-122] and put the cutting edge of the bucket on the ground (Item 2) [Figure OI-122]. Drive forward to the edge of the hole to push the material into the hole.

Tilt the bucket forward (Item 2) [Figure OI-122] as soon as it is past the edge of the hole.

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

PREVENTIVE MAINTENANCE (CONT'D)

OPERATOR CAB	PM-14
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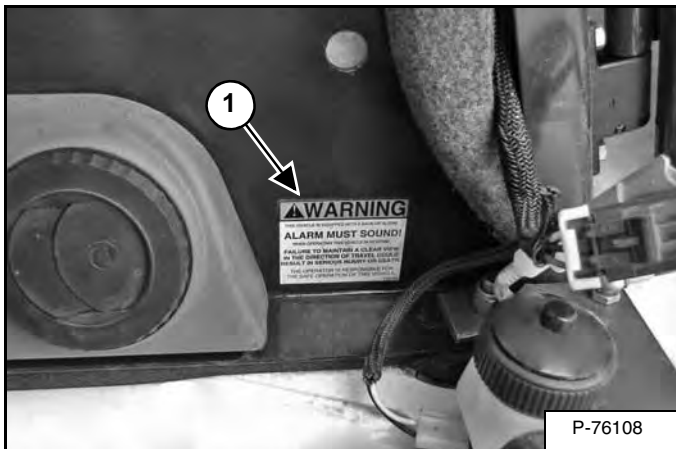
BACK-UP ALARM SYSTEM

Description

This machine may be equipped with a back-up alarm system. The back-up alarm will sound when the operator moves both steering levers or joystick(s) in the reverse position. Slight movement of the steering levers in the reverse position is required with hydrostatic transmissions, before the back-up alarm will sound.

Inspecting

Figure PM-9



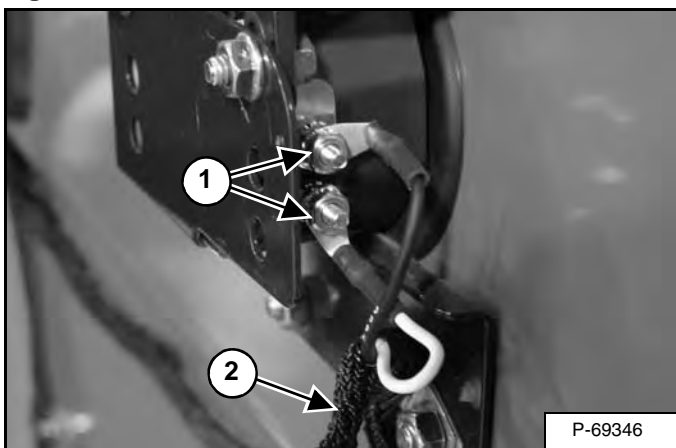
Inspect for damaged or missing back-up alarm decal (Item 1) [Figure PM-9]. Replace if required.

Sit in the seat and fasten the seat belt. Engage the parking brake. Pull the seat bar all the way down. Start the engine. Press the PRESS TO OPERATE LOADER button. Disengage the parking brake.

Move both steering levers or joystick(s) in the reverse position. The back-up alarm must sound when all wheels or both tracks are moving in reverse.

The back-up alarm is located on the inside of the rear door.

Figure PM-10



Inspect the back-up alarm electrical connections (Item 1) [Figure PM-10], wire harness (Item 2) [Figure PM-10] and back-up alarm switches (if equipped) (Item 2) [Figure PM-11] for tightness and damage. Repair or replace any damaged components.

If the back-up alarm switches require adjustment, (See Adjusting Switch Position on Page PM-13.)

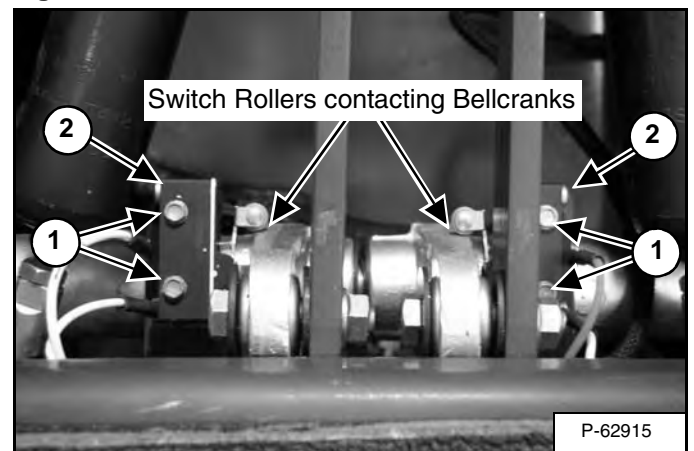
Adjusting Switch Position

NOTE: Joystick equipped machines do not have back-up alarm switches and can not be adjusted. See your Bobcat dealer for service if your back-up alarm does not sound.

Standard Controls and ACS (If Equipped)

Stop the engine and raise the operator cab. (See Raising on Page PM-14.)

Figure PM-11



Place the steering levers in the neutral position.

Loosen the screws (Item 1) [Figure PM-11] securing the back-up alarm switches.

Position the back-up alarm switch rollers so that they just make contact with bellcranks without compressing the switch springs [Figure PM-11]. Torque the screws (Item 1) [Figure PM-11] securing the switches to the bracket to 14-19 in.-lb. (1,6-2,1 N•m).

Lower the operator cab. (See Lowering on Page PM-15.) Inspect back-up alarm system for proper function. (See Inspecting on Page PM-13.)

FUEL SYSTEM (CONT'D)

Filling The Fuel Tank

! WARNING

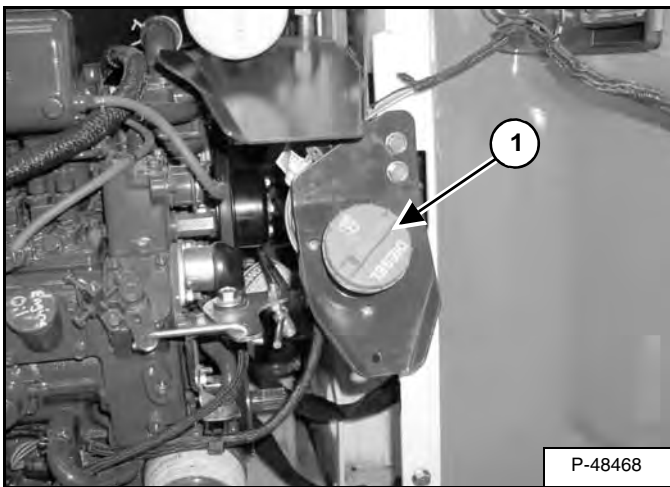
AVOID INJURY OR DEATH

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

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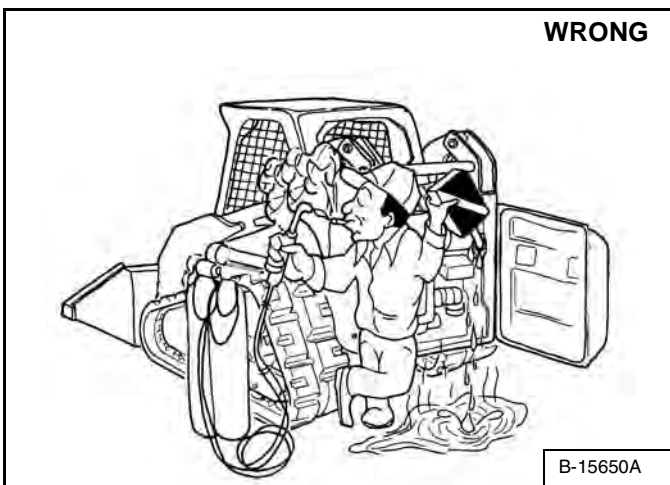
Open the rear door.

Figure PM-32



Remove the fill cap (Item 1) [Figure PM-32].

Figure PM-33



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** [Figure PM-33].

Install and tighten the fuel cap (Item 1) [Figure PM-32].

! 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

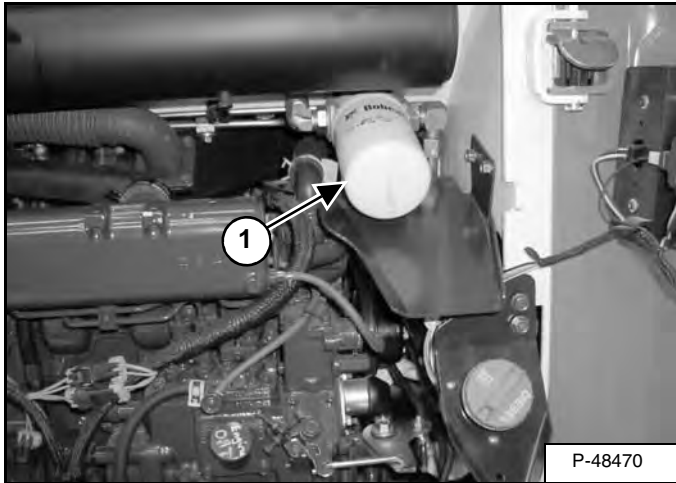
HYDRAULIC / HYDROSTATIC SYSTEM (CONT'D)

Removing And Replacing Hydraulic / Hydrostatic Filter

For the correct service interval (See SERVICE SCHEDULE on Page PM-7.)

Open the rear door.

Figure PM-52



Remove the filter (Item 1) [Figure PM-52].

Clean the surface of the filter housing where the filter seal contacts the housing.

Put clean oil on the seal of the new filter element. Install and hand tighten the filter element.

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

Start the engine and operate the loader hydraulic controls.

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

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

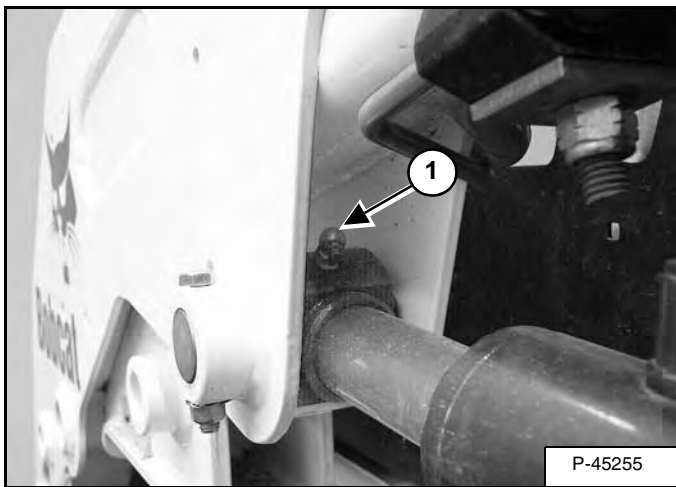
Lubricate the loader as specified for the best performance of the loader. (See SERVICE SCHEDULE on Page PM-7.)

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.

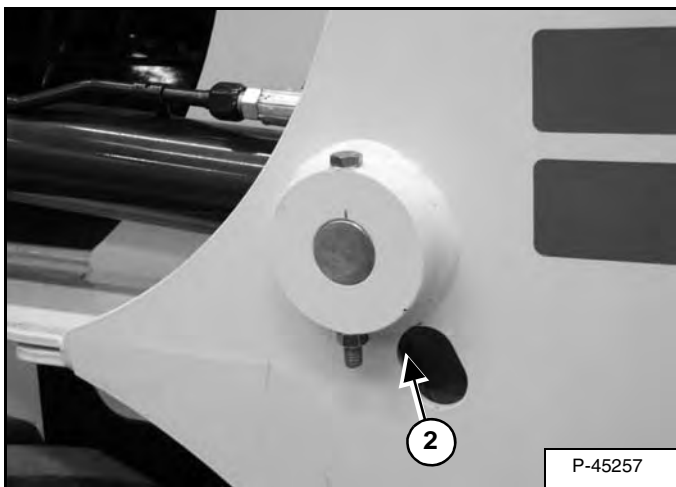
Lubricate the following:

Figure PM-71



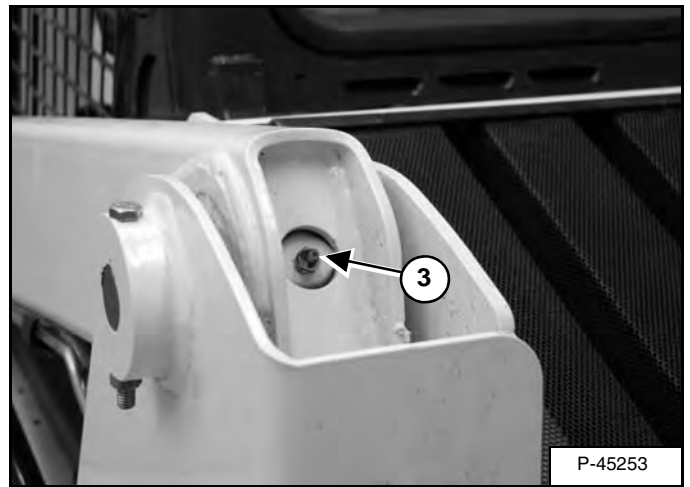
1. Rod End Lift Cylinder (Both Sides) [Figure PM-71].

Figure PM-72



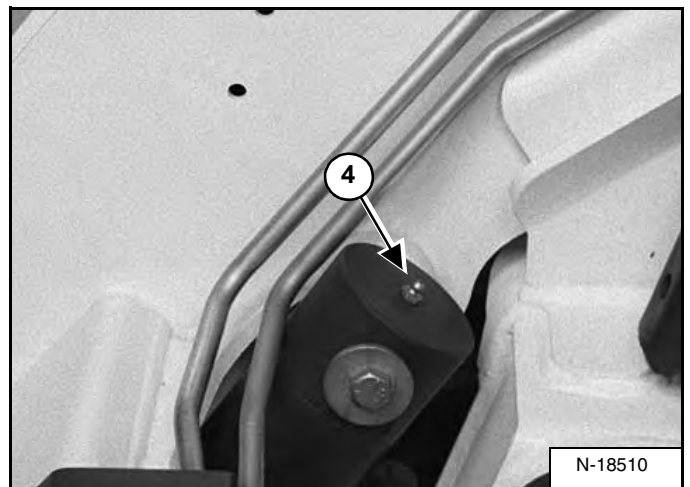
2. Base End Lift Cylinder (Both Sides) [Figure PM-72].

Figure PM-73



3. Lift Arm Pivot Pin (Both Sides) [Figure PM-73].

Figure PM-74



4. Base End Tilt Cylinder (Both Sides) [Figure PM-74].

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 (6809511)	MST-7
DANGER (6718392)	MST-15
DANGER (6718393)	MST-15
IMPORTANT (6560573)	MST-16
LIFT ARM SUPPORT DEVICE (6732774)	MST-9
SERVICE SCHEDULE (6734534).....	MST-3
WARNING (6577754)	MST-15
WARNING (6718391)	MST-15
WARNING (6718396)	MST-7
WARNING (6728540)	MST-6
WARNING (6733996)	MST-8
WARNING (6737189)	MST-8
WARNING (7131520)	MST-10
WARNING (6737248)	MST-11
WARNING (6726423)	MST-14
WARNING (6704786)	MST-14
WARNING (6717343)	MST-16
WARNING (6708941)	MST-16
WARNING (7131521)	MST-12

**MACHINE SIGN
TRANSLATIONS
(MST)**

WARNING (7131520) (CONT'D)

AVERTISSEMENT


RISQUE DE DE BLESSURES GRAVES, VOIRE MORTELLES

 N'UTILISEZ JAMAIS LA CHARGEUSE SANS DISPOSER DES INSTRUCTIONS, LIREZ LE MANUEL ET LE GUIDE DEL OPERATEUR ET D'ENTRIEN.	 UTILISEZ L'ARCEAU DE SEDE, ATTACHEZ SERRONEMENT VOTRE CEINTURE DE SECURITE.	 GARDEZ LES PIEDS SUR LES REPOSE-PIEDS.	 SUR LES PENTES, VEILIEZ A MAINTENIR LE COTE LOURD DE LA CHARGEUSE VERS LE HAUT.
 NE VIREZ PAS ET NE DEPLACEZ PAS LA CHARGEUSE QUAND LES BRAS CHARGEZ, DECHARGEZ ET VIREZ UNIQUEMENT SUR UN SOL PLAT ET HORIZONTAL. NE METTEZ JAMAIS LA CHARGEUSE OPERATIONNELLE NI MISE AUTOCLLANT SUR LA CHARGEUSE.	 NE MODIFIEZ JAMAIS L'EQUIPEMENT ET N'UTILISEZ JAMAIS D'ACCESSOIRES QUI NE SONT PAS APPROUVES PAR INDICAT COMPANY.	 ENCLICHEZ LE FREIN.	 RELEVEZ L'ARCEAU DE BIERE.

Weitere Anweisungen finden sie in der Bedienungs- und Instandhaltungsanleitung, im Handbuech, im Bedienungshandbuech und im Wartungshandbuech. Voir le Manuel de l'opérateur et d'entretien pour d'autres renseignements.

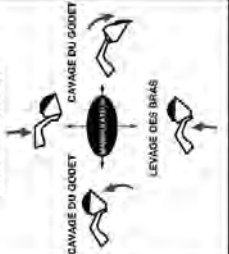
VERROUILLAGE DU FLOTTEMENT

Appuyez sur le bouton jaune de blocage du manipulateur droit pendant l'abaissement des bras de levage.



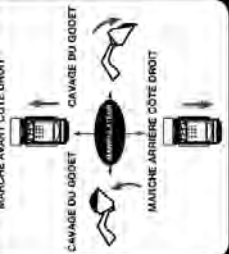
MANIPULATEUR DROIT - ISO

ABASSEMENT DES BRAS



MANIPULATEUR DROIT - H

MARCHÉ AVANT CÔTE DROIT



67472 SW
7131520 fr

WARNING (6737248)

WARNING

SWITCH POSITION CHANGES JOYSTICK DRIVE AND LIFT ARM FUNCTIONS

SEE CONTROL PATTERN DECALS

58439
SW 03 6737248

ADVERTENCIA

LA POSICIÓN DEL INTERRUPTOR CAMBIA EL MANDO DEL JOYSTICK Y LAS FUNCIONES DEL BRAZO DE ELEVACIÓN

VER CALCOMANÍAS DE PATRÓN DE CONTROL

58439
SW 05 6737248 AR

AVERTISSEMENT

LA POSITION DES CONTACTEURS MODIFIE LES FONCTIONS DE MÔTRICITE ET DE LEVAGE SUR LES MANETTES

VOIR LES AUTOCLLANTS DES SCHEMAS DE COMMANDE

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GT-05-6737248-FR

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