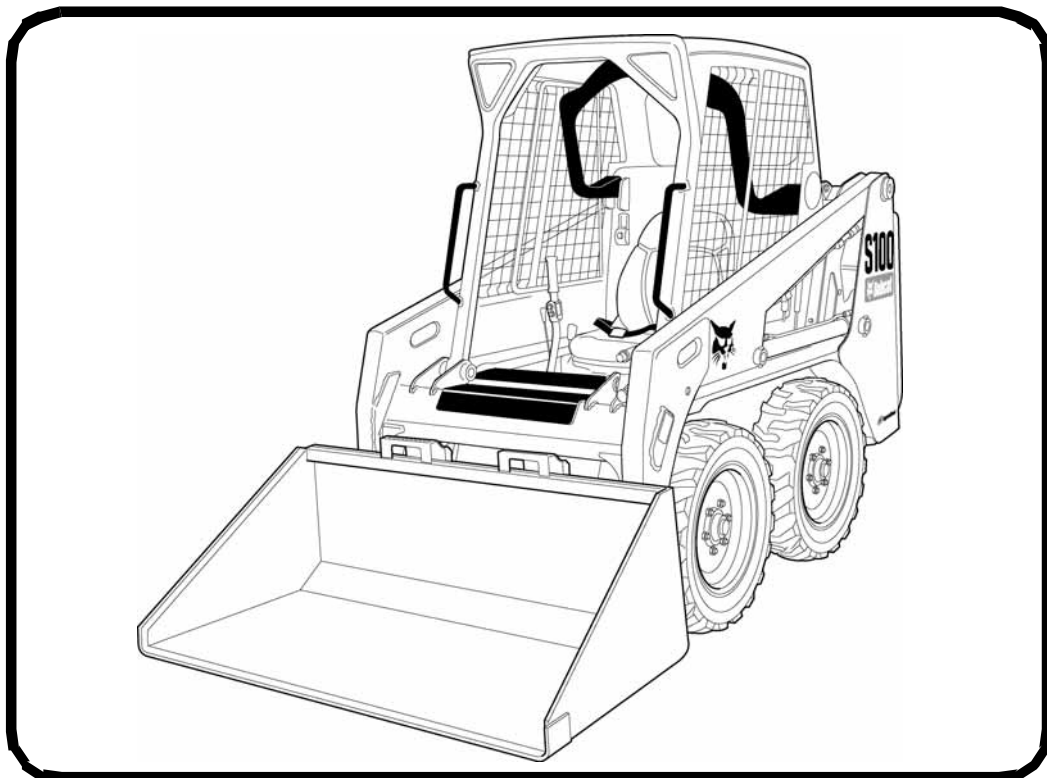




Bobcat®

Operation & Maintenance Manual S100 Skid-Steer Loader

S/N AB6420001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)



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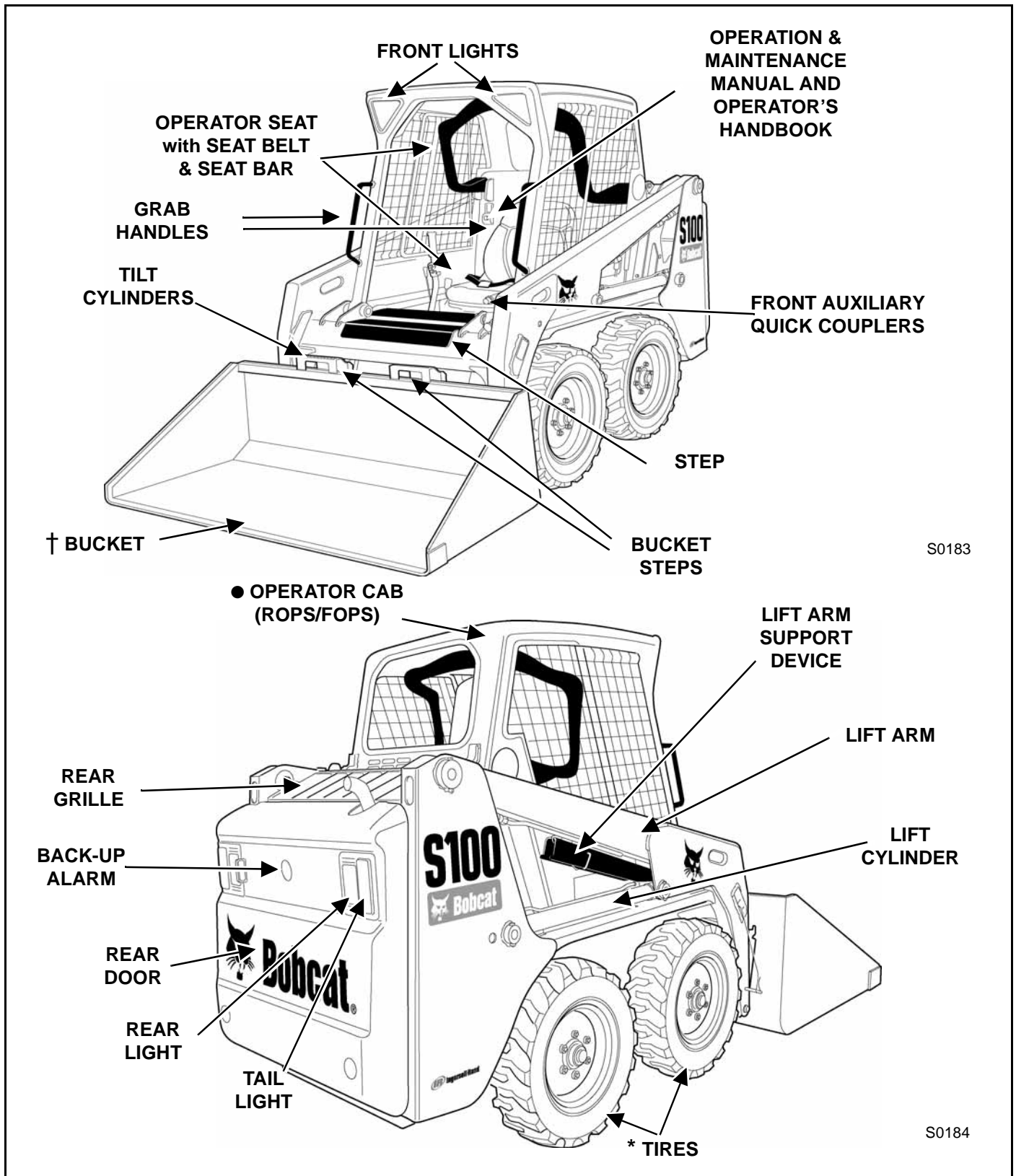
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LOADER IDENTIFICATION



S0183

S0184

- * TIRES - Tires shown may not be standard. The machine is factory equipped with standard tires. Other tires are available.
- ROPS, FOPS - Roll Over Protective Structure, per ISO 3471, and Falling Object Protective Structure per ISO 3449, Level I. Level II is available.
- † Bucket - Many Buckets and other Attachments are 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 (Option)	High range selected. (Available with SJC controls only)
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 in this manual.)
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	Not used.
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 (Press and hold for seven seconds when displayed to reset the maintenance clock.) • Service codes*
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. (See TRACTION LOCK OVERRIDE in this manual.) Press a second time to lock the brakes.
22	PRESS TO OPERATE LOADER	Press to activate the BICS™ when the seat bar is down and operator is seated in operating position. Button will light. Press and hold three seconds to engage Drive Response and Steering Drift Compensation. (See DRIVE RESPONSE and STEERING DRIFT COMPENSATION in this manual.)
23	ALARM	The alarm beeps when Error, Warning or Shutdown conditions exist.

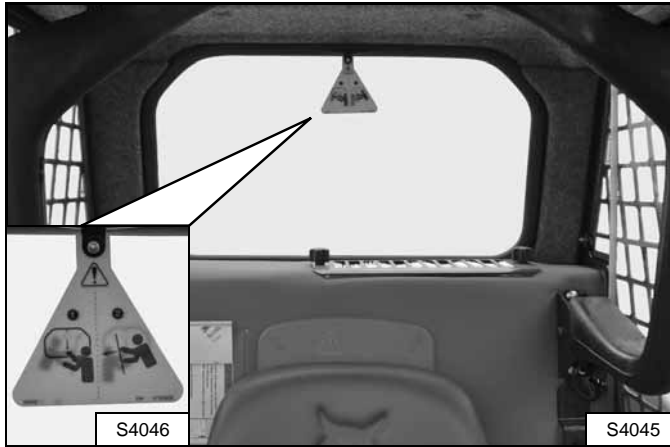
* See SYSTEM SETUP & ANALYSIS for Service Code description. (See DIAGNOSTIC SERVICE CODES on Page SA-3.)

EMERGENCY EXIT

The front opening on the operator cab and rear window provide exits.

Rear Window

Figure OI-21



Pull the tag on the top of the rear window to remove the rubber cord [Figure OI-21].

Push the rear window out of the rear of the operator cab.

Figure OI-22



Exit through the rear of the operator cab [Figure OI-22].

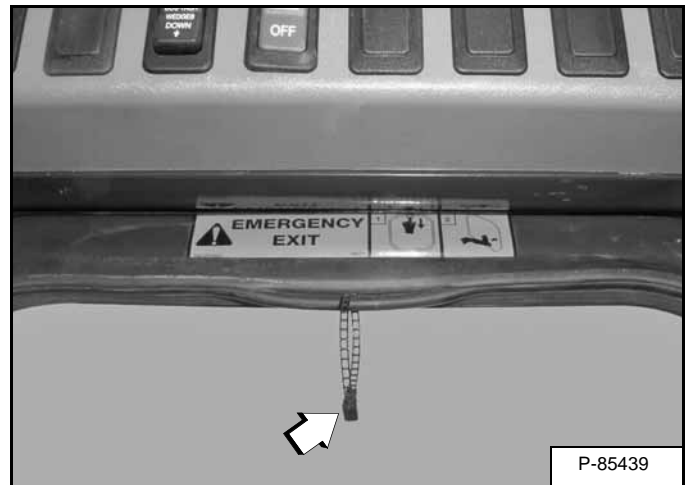
Front Door

This machine may be equipped with a front door.

NOTE: When an Operator Cab Enclosure Kit is installed, the window of the front door can be used as an emergency exit [Figure OI-23].

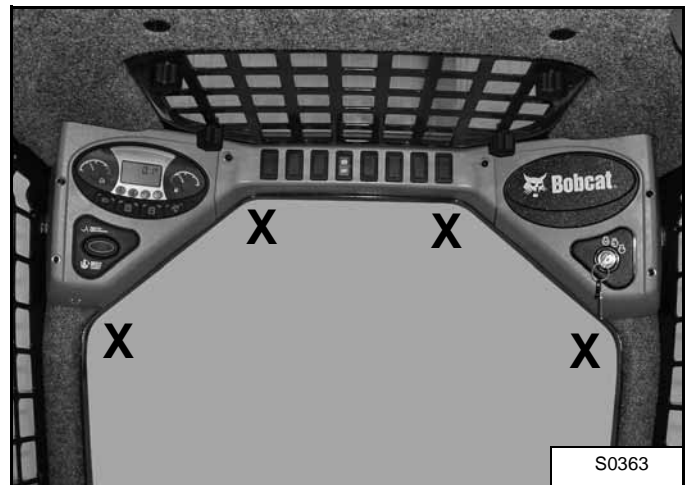
NOTE: If the loader has a Special Application Door Kit installed, the window of the front door is NOT an emergency exit.

Figure OI-23



Pull the plastic loop at the top of the window in the front door to remove the rubber cord [Figure OI-23].

Figure OI-24



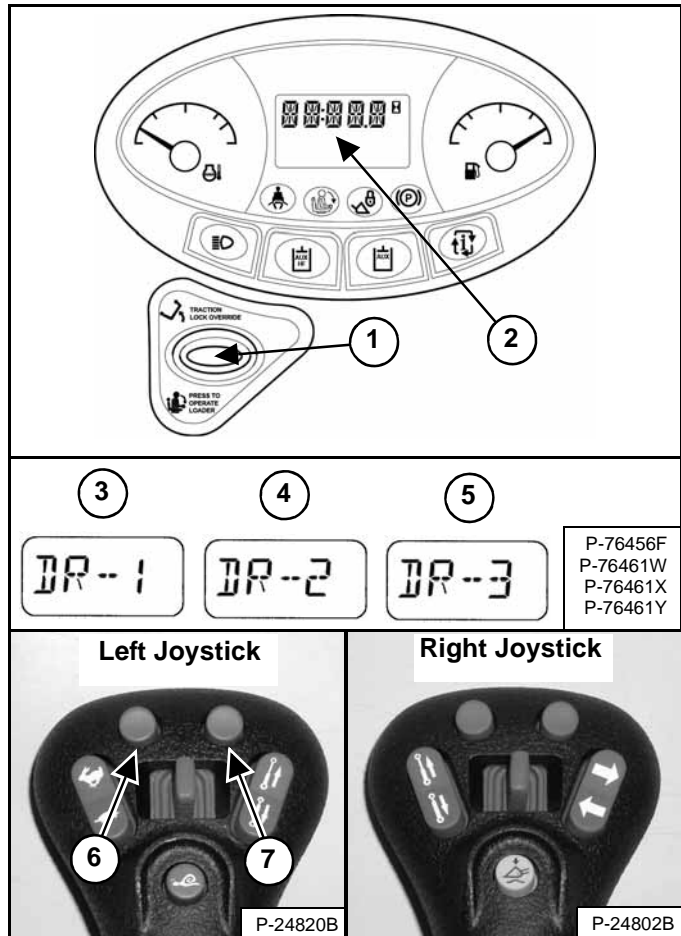
Push the window out with your foot at any corner of the window [Figure OI-24].

Exit through the front door.

DRIVE RESPONSE (CONT'D)

Operation (Cont'd)

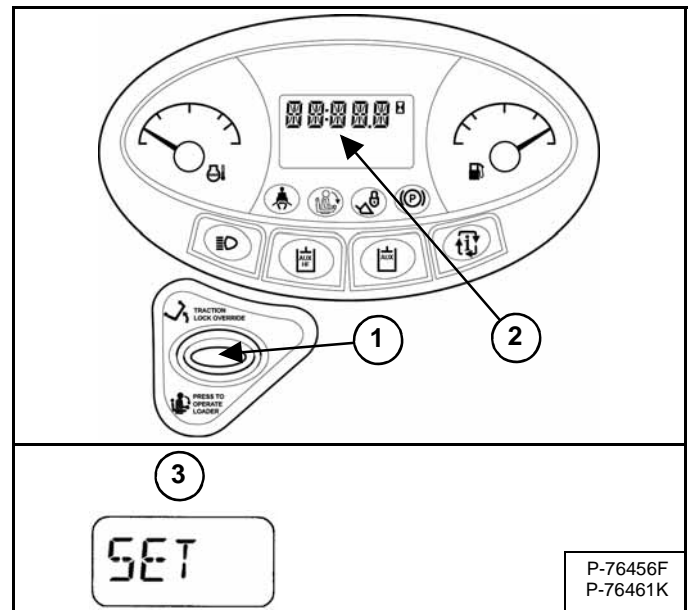
Figure OI-42



Press and hold the PRESS TO OPERATE LOADER button (Item 1) for **three seconds** to adjust the loader drive response setting. The current drive response setting will appear in the data display (Item 2) [Figure OI-42].

Press the upper left button (Item 6) on the left joystick to scroll down through the three settings. Press the upper right button (Item 7) on the left joystick to scroll up through the three drive response settings. The new drive response setting (Item 3, 4 or 5) will appear in the data display (Item 2) [Figure OI-42]. Adjustments to drive response will be effective immediately.

Figure OI-43



Saving The Drive Response Setting:

The current drive response setting can be saved by pressing and holding the PRESS TO OPERATE LOADER button (Item 1) for **three seconds**. [SET] (Item 3) will appear in the data display (Item 2) [Figure OI-43] and the machine will exit from the drive response adjustment menu.

OR

Press the PRESS TO OPERATE LOADER button to exit from the drive response adjustment menu without saving the current setting.

The current steering drift compensation setting (See STEERING DRIFT COMPENSATION on Page OI-28.) will appear in the data display (Item 2) [Figure OI-43] and the upper left and upper right buttons on the left joystick will no longer make changes to drive response.

NOTE: The last displayed drive response setting will remain in effect until the STOP button is pressed or the key is turned OFF. The machine will revert back to the last saved drive response setting the next time it is started.

Adjustments to steering drift compensation can now be made (See STEERING DRIFT COMPENSATION on Page OI-28.)

OR

Press the PRESS TO OPERATE LOADER button again to exit from the steering drift compensation menu.

Figure OI-68

WARNING

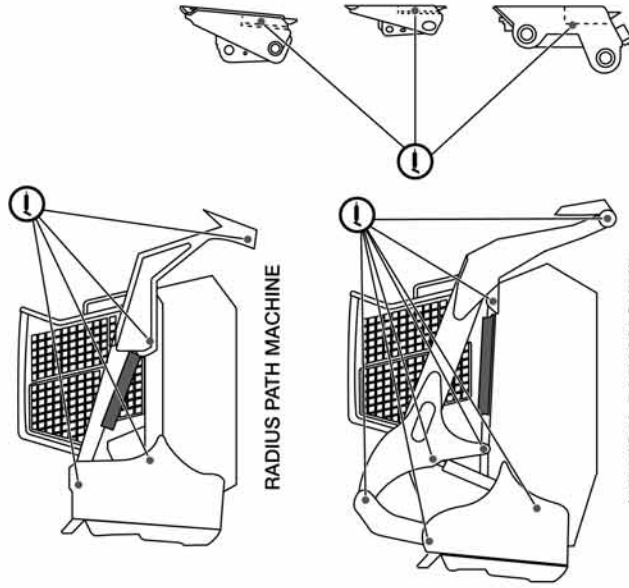
AVOID INJURY OR DEATH

- Keep door closed except for service.
- Keep engine clean of flammable material.
- Keep body, loose objects and clothing away from electrical contacts, moving parts, hot parts and exhaust.
- Do not use loader in space with explosive dusts or gases or with flammable material near exhaust.
- Never use ether or starting fluid on diesel engine with glow plugs. Use only starting aids as approved by engine manufacturer.
- Leaking fluids under pressure can enter skin and cause serious injury.
- Battery acid causes severe burns; wear goggles. If acid contacts eyes, skin, or clothing, flush with water. For contact with eyes, flush and get medical attention.
- Battery makes flammable and explosive gas. Keep arcs, sparks, flames and lighted tobacco away.
- For jump start, connect negative cable to loader engine last (never at the battery). After jump start, remove negative connection at the engine first.
- Exhaust gases can kill. Always ventilate.

SERVICE CHECKLIST AND SCHEDULE

- EVERY 10 HRS (BEFORE STARTING THE LOADER)**
- **ENGINE OIL & FILTER** - Check level and add as needed. Do not overfill. Change oil and filter after first 50 Hrs. then refer to Operation & Maintenance Manual for proper change interval for your Model.
 - **ENGINE AIR FILTER** - Check condition indicator and/or display. Service only when required. Do not use compressed air to clean elements.
 - **ENGINE AIR SYSTEM** - Check for leaks and damaged components.
 - **ENGINE COOLING SYSTEM** - Clean debris from grill, oil cooler and radiator. Check coolant level cold; add coolant mixture if required.
 - **FUEL FILTER** - Remove trapped water.
 - **LOADER LIFT ARMS, LIFT LINKS, CYLINDERS, BOB-TACH PIVOT & WEDGES, STEERING CYLINDERS (AWS Machines Only)** - Lubricate with multipurpose lithium based grease.
 - **SEAT BELT, SEAT BAR AND CONTROL INTERLOCKS** - Check function. Repair or replace as needed. Clean dirt and debris from moving parts.
 - **BICS** - Check for correct function. Clean dirt and debris from moving parts. Lift and Tilt functions MUST NOT operate with seat bar raised.
 - **TIRES** - Check air pressure. Inflate to MAXIMUM pressure shown on sidewall of tire.
 - **GENERAL** - Check for loose or broken parts, damaged operator cab, instrument operation, loose wheel nuts or track sprocket nuts, oil leaks, damaged or missing safety signs (decals).
- EVERY 50 HRS**
- **HYDRAULIC FLUID, HOSES AND TUBELINES** - Check fluid level and add if required. Check for damage and leaks. Repair or replace as needed.
 - **FINAL DRIVE TRANSMISSION (CHAINCASE, Wheel Machines Only)** - Check fluid level and add if required.
 - **HYDRAULIC & STEERING CONTROLS (PEDALS, HAND, and/ or JOYSTICK)** - Check for correct operation. Adjust as needed.
 - **WHEEL NUTS / TRACK DRIVE SPROCKETS** - Check for loose nuts and tighten as needed.
 - **TRACK TENSION (Track Machines Only)** - Check tension and adjust as needed.
- EVERY 100 HRS**
- **SPARK ARRESTOR MUFFLER** - Empty spark chamber. (If equipped.)
 - **BATTERY** - Check battery for damage, hold down clamps, cables, connections and electrolyte level. Add distilled water as needed.
 - **DRIVE LINE** - Lubricate Engine-to-Pump Coupler with multipurpose lithium based grease. (If equipped.)
- EVERY 250 HRS**
- **STEERING LEVER PIVOTS** - Lubricate with multipurpose lithium based grease. (If equipped.)
 - **FUEL FILTER** - Replace filter.
 - **KING PINS (AWS Machines Only)** - Lubricate with multipurpose lithium based grease.
 - **ENGINE / HYDRAULIC DRIVE BELT** - Check for wear or damage. Adjust or replace as needed. (If equipped.)
 - **FAN DRIVE GEARBOX** - Check fluid level and add if required. (If equipped.)
 - **OTHER DRIVE BELTS (Hydrostatic pump, water pump, alternator, and air conditioner - if equipped.)** - Check condition and tension. Adjust or replace as needed.
- EVERY 500 HRS**
- **BICS** - Check function of Lift Arm By-Pass control.
 - **FAN / HYDRAULIC / HYDROSTATIC SYSTEM** - Replace filter. Replace reservoir breather cap.
 - **STEERING VALVE INLINE FILTER (AWS Only)** - Replace filter.
 - **HYDROSTATIC MOTOR CARRIER (Track Machines Only)** - Replace oil.
- EVERY 1000 HRS**
- **HYDRAULIC RESERVOIR** - Replace fluid.
 - **FINAL DRIVE TRANSMISSION (Chaincase on Wheel Machines Only)** - Replace fluid.
 - **TRACK ROLLER, IDLER ASSEMBLIES (Track Machines Only)** - Replace fluid (if required).
 - **DRIVE MOTOR CASE OIL FILTER** - Replace filter (if equipped.)
 - **WHEEL BEARING & OUTER SPLINES (AWS only)** - Repack wheel bearings, grease internal splines in hub yoke. (Dealer Service Only)
- NOTES:**
- ★ Replace element sooner if transmission warning indicator remains on for more than 5 minutes after hydraulic fluid is at operating temperature.
 - ▲ Service at first 50 Hours, then as scheduled.
 - See Operation & Maintenance Manual for correct fluid specifications, filter part number and location, and appropriate service interval for your Model.

GENERAL LUBRICATION DIAGRAMS



● TYPICAL GREASE POINTS



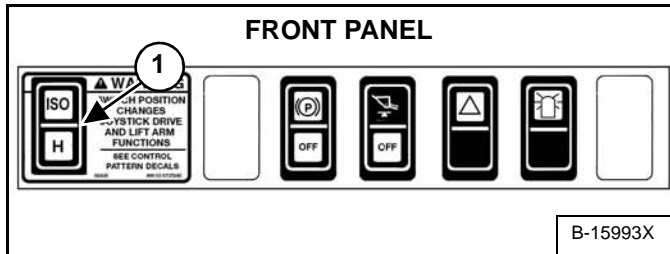
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STARTING THE ENGINE (CONT'D)

Deluxe Instrumentation Panel (Cont'd)

NOTE: Make sure both joysticks (SJC) are in the neutral position before starting the engine. Do not move the joysticks from the neutral position when pressing the RUN / ENTER or START buttons with the BICS activated.

Figure OI-90



(SJC) Select 'ISO' or 'H' Control Pattern (Item 1) [Figure OI-90].

Figure OI-91



Press the PRESS TO OPERATE LOADER button (Item 1) [Figure OI-91] to activate the BICS and to perform hydraulic and loader functions.

(SJC) The current drive response setting will be displayed briefly in the data display (Item 2) each time the PRESS TO OPERATE LOADER button (Item 1) [Figure OI-91] is pressed.

NOTE: (SJC) The light of the current switch position (ISO or H) will flash, which will indicate PRESS TO OPERATE LOADER is required. The light will flash when the RUN button has been pressed and continue to flash until the PRESS TO OPERATE LOADER button is pressed, thereafter the light will become solid. If the mode (ISO / H) is changed while driving, the active mode light will remain solid and the pending mode light will flash. When operation of the machine is returned to neutral, the active mode light will then turn off and the pending mode light 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.

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OPERATING PROCEDURE (CONT'D)

Operating With A Full Bucket

Figure OI-104

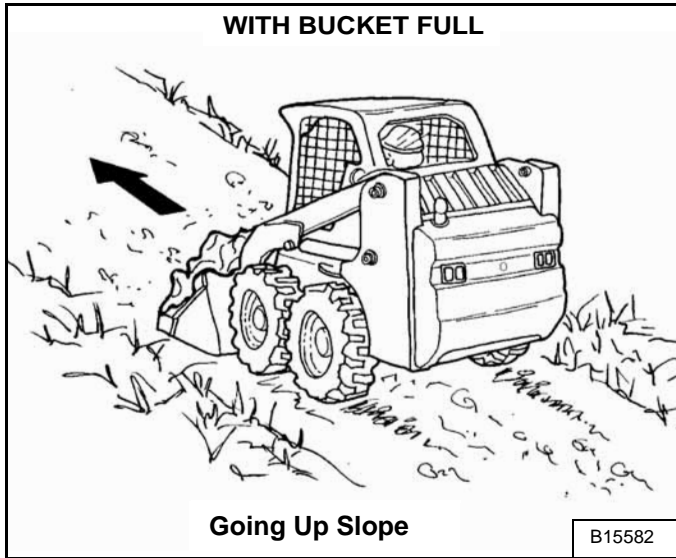
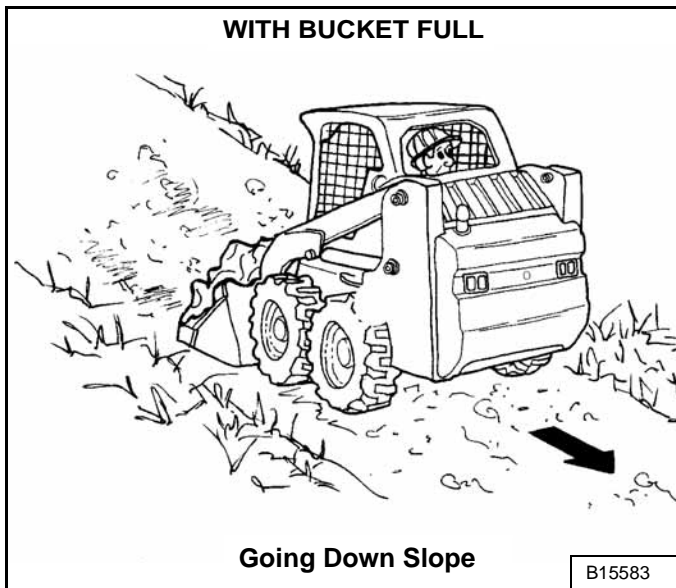


Figure OI-105



With a full bucket, go up or down the slope with the bucket (heavy end) toward the top of the slope [Figure OI-104] and [Figure OI-105].

Operating With An Empty Bucket

Figure OI-106

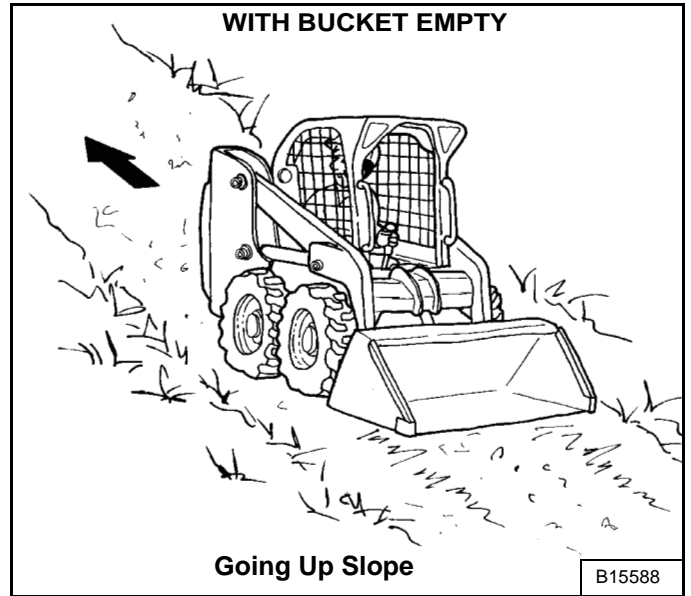
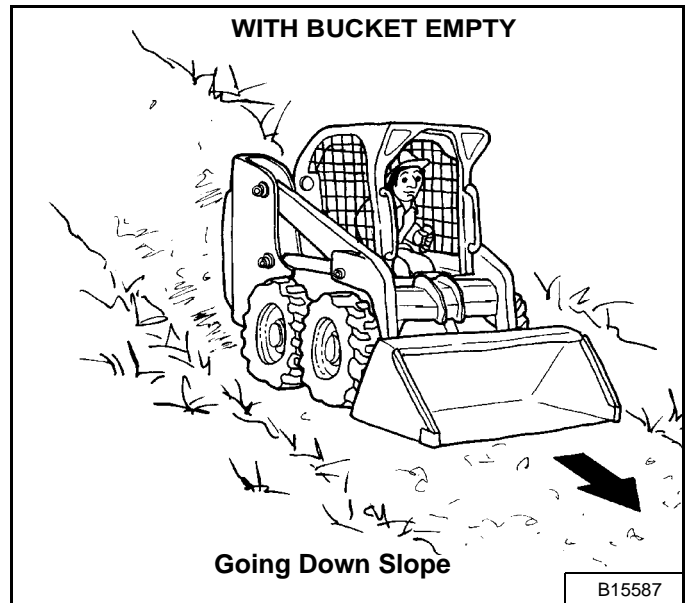


Figure OI-107



With an empty bucket, go up or down the slope with the back of the loader (heavy end) toward the top of the slope [Figure OI-106] and [Figure OI-107].

Raise the bucket only high enough to avoid obstructions on rough ground.

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PREVENTIVE MAINTENANCE

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**PREVENTIVE
MAINTENANCE
(PM)**

Continued On Next Page

SEAT BELT

Inspection And Maintenance



Failure to properly inspect and maintain the seat belt can cause lack of operator restraint resulting in serious injury or death.

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Check the seat belt daily for correct function.

Inspect the seat belt system thoroughly at least once each year or more often if the machine is exposed to severe environmental conditions or applications.

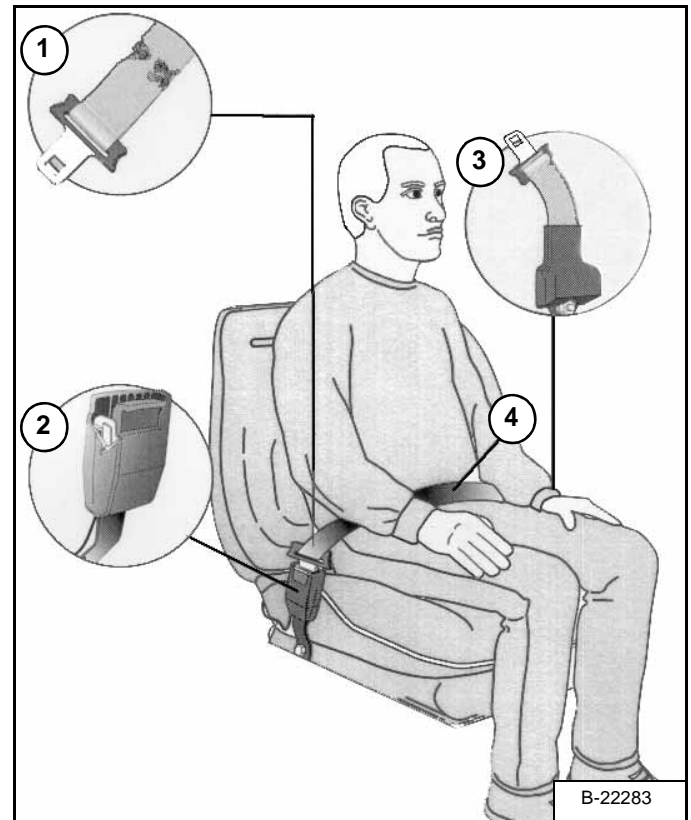
Any seat belt system that shows cuts, fraying, extreme or unusual wear, significant discolorations due to ultraviolet UV exposure, dusty / dirty conditions, abrasion to the seat belt webbing, or damage to the buckle, latch plate, retractor (if equipped), hardware or any other obvious problem should be replaced immediately.

The items below are referenced in **[Figure PM-4]**.

1. Check the webbing. If the system is equipped with a retractor, pull the webbing completely out and inspect the full length of the webbing. Look for cuts, wear, fraying, dirt and stiffness.
2. Check the buckle and latch for correct operation. Make sure latch plate is not excessively worn, deformed or buckle is not damaged or casing broken.
3. Check the retractor web storage device (if equipped) by extending webbing to determine if it looks correct and that it spools out and retracts webbing correctly.
4. Check webbing in areas exposed to ultraviolet (UV) rays from the sun or extreme dust or dirt. If the original color of the webbing in these areas is extremely faded and / or the webbing is packed with dirt, the webbing strength may have deteriorated.

See your Bobcat dealer for seat belt system replacement parts for your machine.

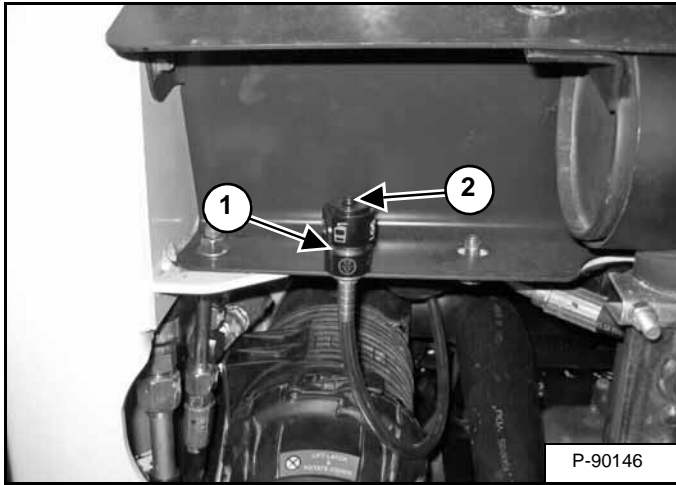
Figure PM-4



AIR CLEANER SERVICE

Replacing Filter Elements

Figure PM-29

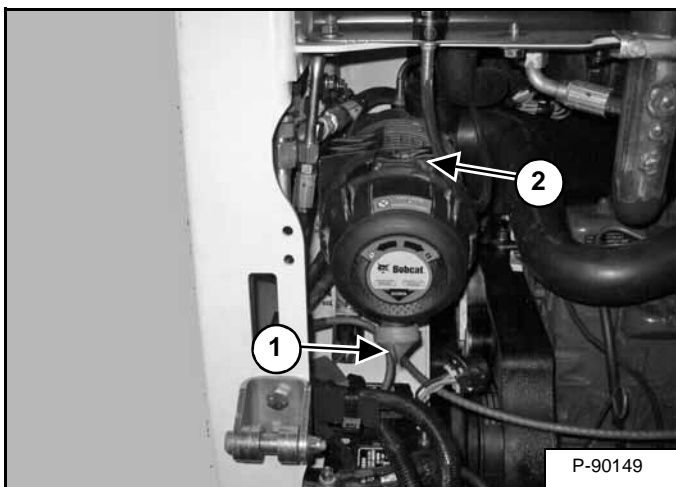


Replace the large (outer) filter element only when the red ring shows in the window of the condition indicator (Item 1) [Figure PM-29].

NOTE: Before replacing the filter element, push the button on the condition indicator (Item 2) [Figure PM-29]. Start the engine. If the red ring does not show, do not replace the filter element.

Outer Filter

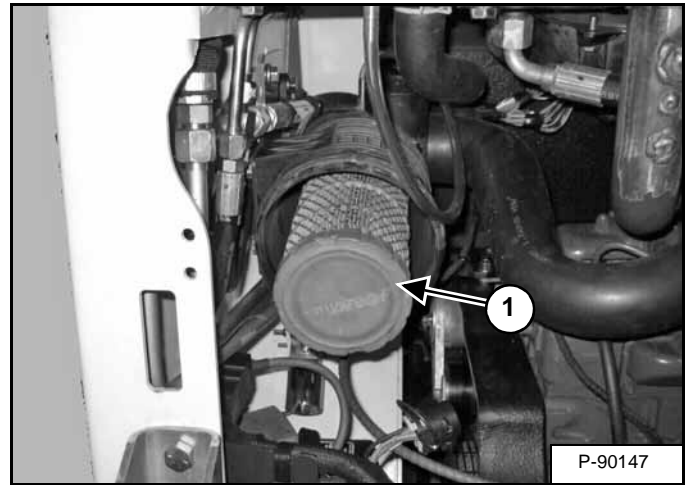
Figure PM-30



Open the evacuator valve (Item 1) [Figure PM-30] to get rid of large particles of dust and dirt.

Remove the dust cover by lifting the lever (Item 2) [Figure PM-30] and rotating the dust cover.

Figure PM-31



Pull the outer element (Item 1) [Figure PM-31] straight out.

Install a new outer element.

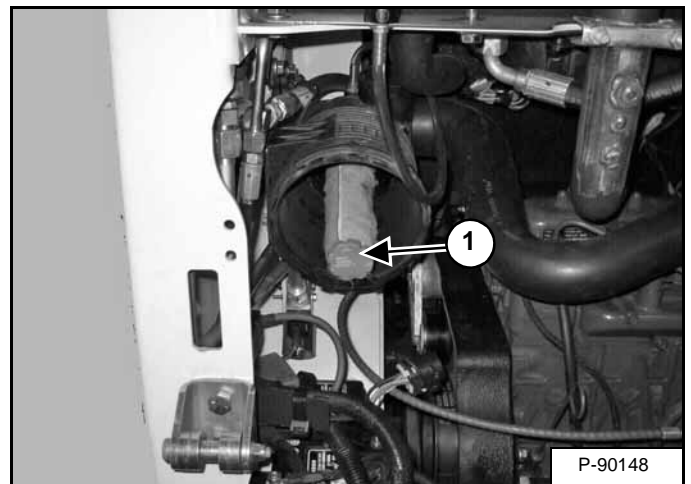
Install the dust cover.

Check the air intake hose and the air cleaner housing for damage. Make sure all connections are tight.

Inner Filter

Replace the inner filter every third time the outer filter is replaced or when the red ring still shows in the indicator window after the outer filter has been replaced.

Figure PM-32



Remove the inner filter (Item 1) [Figure PM-32].

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

Install a new inner element.

Install the outer element and the dust cover.

ELECTRICAL SYSTEM (CONT'D)

Removing And Installing Battery

WARNING

AVOID INJURY OR DEATH

Batteries contain acid which burns eyes and skin on contact. Wear goggles, protective clothing and rubber gloves to keep acid off body.

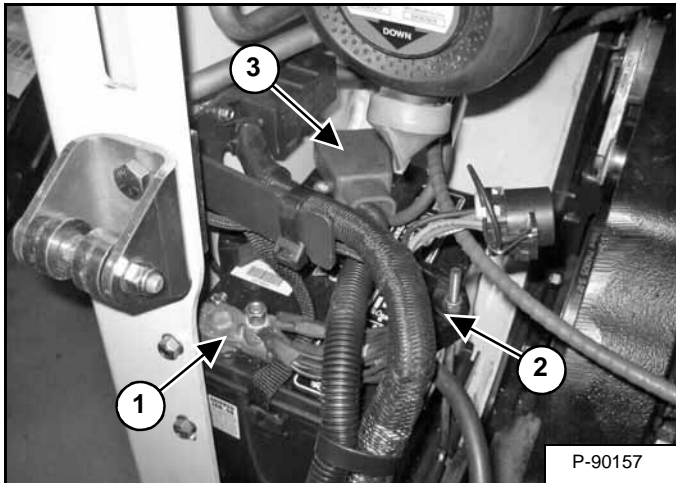
In case of acid contact, wash immediately with water. In case of eye contact get prompt medical attention and wash eye with clean, cool water for at least 15 minutes.

If electrolyte is taken internally drink large quantities of water or milk! DO NOT induce vomiting. Get prompt medical attention.

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Open the rear door.

Figure PM-48



Disconnect the negative (-) battery cable (Item 1) [Figure PM-48].

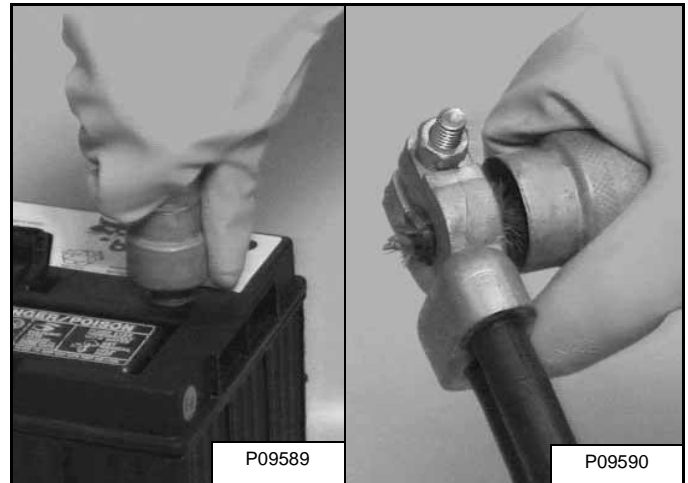
Remove the battery hold down clamp (Item 2) [Figure PM-48].

Disconnect the positive (+) cable (Item 3) [Figure PM-48] from the battery.

Remove the battery from the loader.

NOTE: When removing or installing the battery in the loader, do not touch any metal parts with the battery terminals.

Figure PM-49



Always clean the battery terminals and cable ends when installing a new or used battery [Figure PM-49].

NOTE: Always connect the negative (-) cable last and remove it first to prevent sparks.

Install and tighten the battery hold down clamp.

Connect and tighten the battery cables.

Close the rear door before operating the loader.

DRIVE BELT

Belt Adjustment

Drive belt tension is automatically maintained, no adjustment is necessary.

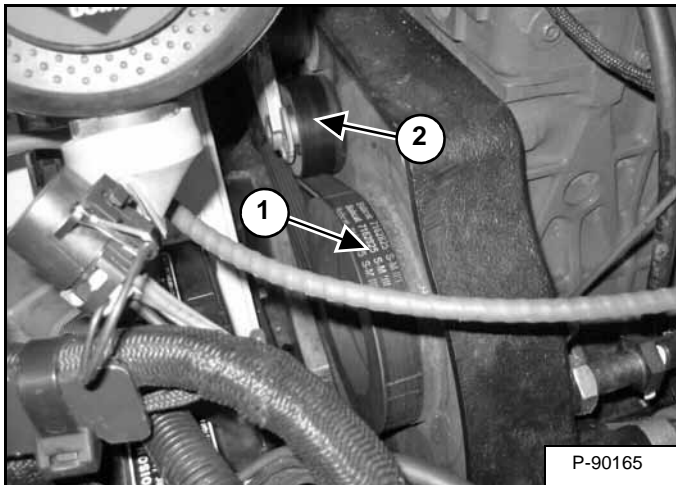
Belt Replacement

Stop the engine and open the rear door.

Disconnect the negative (-) cable from the battery.

Remove the two drive belt shield fasteners and remove the drive belt shield.

Figure PM-64



Loosen the drive belt (Item 1) by pulling the tension wheel (Item 2) [Figure PM-64] upwards with a socket wrench.

Remove the drive belt.

Install new drive belt.

Lower the tension wheel onto the drive belt.

Install the drive belt shield and the drive belt shield fasteners.

Connect the negative (-) cable to the battery.

Close the rear door before operating the loader.

DIAGNOSTIC SERVICE CODES (CONT'D)

Service Codes List (Cont'd)

CODE	DESCRIPTION	CODE	DESCRIPTION
D7521	Left joystick Y-axis out of range high	D7572	Drive pump not calibrated
D7522	Right joystick Y-axis out of range high	D7573	Operating mode switch flipped while operating
D7523	Right front wheel angle sensor out of range high	D7574	Right wheel speed uncommanded motion
D7524	Left front wheel angle sensor out of range high	D7575	Left wheel speed uncommanded motion
D7525	Right rear wheel angle sensor out of range high	D7576	No communication from ACS controller
D7526	Left rear wheel angle sensor out of range high	D7577	Left speed sensor out of range high
D7527	Left swash plate out of position	D7578	Right speed sensor out of range high
D7528	Right swash plate out of position	D7579	Left speed sensor out of range low
D7529	Left joystick X-axis out of range low	D7580	Right speed sensor out of range low
D7531	Left joystick Y-axis out of range low	D7581	Right front steer retract short to battery
D7532	Right joystick Y-axis out of range low	D7582	Left front steer retract short to battery
D7533	Right front wheel angle sensor out of range low	D7583	Right rear steer retract short to battery
D7534	Left front wheel angle sensor out of range low	D7584	Left rear steer retract short to battery
D7535	Right rear wheel angle sensor out of range low	D7585	Sensor supply 1 out of range high
D7536	Left rear wheel angle sensor out of range low	D7586	Sensor supply 2 out of range high
D7537	Sensor supply 1 out of range low	D7587	Software update required
D7538	Sensor supply 2 out of range low	D7588	Switched power stuck ON
D7539	Left swash plate sensor out of range high	D7589	Switched power error OFF
D7540	Left swash plate sensor out of range low	D7591	Left swash plate sensor reversed
D7541	Right swash plate sensor out of range high	D7592	Right swash plate sensor reversed
D7542	Right swash plate sensor out of range low	D7593	Right speed sensor unresponsive
D7543	Left forward drive solenoid error ON	D7594	Left speed sensor unresponsive
D7544	Left reverse drive solenoid error ON	D7595	Left speed sensor reversed
D7545	Right forward drive solenoid error ON	D7596	Right speed sensor reversed
D7546	Right reverse drive solenoid error ON	D7597	Controller programmed
D7547	Right front steer extend short to battery	D7598	In drive calibration mode
D7548	Left front steer extend short to battery	D7599	In angle calibration mode
D7549	Right rear steer extend short to battery		
D7550	Left rear steer extend short to battery	H1221	Right Primary out of range high
D7551	Steer pressure short to battery	H1222	Right Primary out of range low
D7552	Back-up alarm error ON	H1224	Right Primary not in neutral
D7553	Left forward drive solenoid error OFF	H1321	Left Primary out of range high
D7554	Left reverse drive solenoid error OFF	H1322	Left Primary out of range low
D7555	Right forward drive solenoid error OFF	H1324	Left Primary not in neutral
D7556	Right reverse drive solenoid error OFF	H2005	Boost solenoid short to battery
D7557	Right front steer extend short to ground	H2006	Boost solenoid short to ground
D7558	Right front steer retract short to ground	H2007	Boost solenoid open circuit
D7559	Left front steer extend short to ground	H2032	Boost solenoid overcurrent
D7560	Left front steer retract short to ground	H2205	Pressure control solenoid short to battery
D7561	Right rear steer extend short to ground	H2206	Pressure control solenoid short to ground
D7562	Right rear steer retract short to ground	H2207	Pressure control solenoid open circuit
D7563	Left rear steer extend short to ground	H2232	Pressure control solenoid overcurrent
D7564	Left rear steer retract short to ground	H2305	Rear base solenoid short to battery
D7565	Steer pressure short to ground	H2306	Rear base solenoid short to ground
D7566	Back-up alarm error OFF	H2307	Rear base solenoid open circuit
D7567	No communication from Gateway controller	H2332	Rear base solenoid overcurrent
D7568	Angle sensors not calibrated	H2405	Rear rod solenoid short to battery
D7569	Battery voltage out of range high	H2406	Rear rod solenoid short to ground
D7570	Interrupted power	H2407	Rear rod solenoid open circuit
D7571	Battery voltage out of range low	H2432	Rear rod solenoid overcurrent

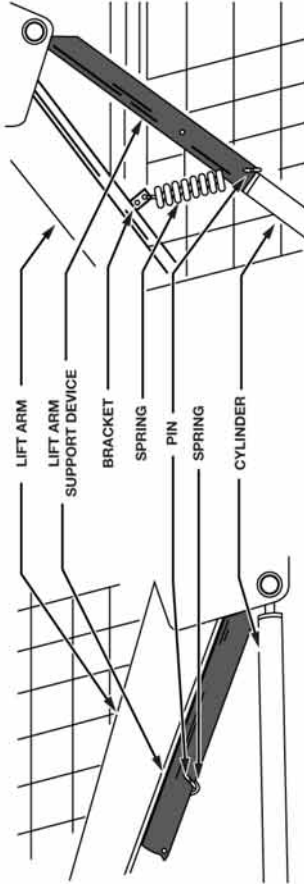
MACHINE SIGN TRANSLATIONS

DANGER (6702301) .....	.MST-6
DANGER (6702302) .....	.MST-6
DANGER (6717343) .....	.MST-6
DANGER (6809511) .....	.MST-9
IMPORTANT (6560573) .....	.MST-16
LIFT ARM SUPPORT DEVICE (6706558) .....	.MST-11
SERVICE SCHEDULE (6734534).....	.MST-3
WARNING (6577754) .....	.MST-6
WARNING (6579528) .....	.MST-7
WARNING (6704786) .....	.MST-7
WARNING (6710358) .....	.MST-9
WARNING (6725370) .....	.MST-10
WARNING (6728539) .....	.MST-8
WARNING (6737189) .....	.MST-10
WARNING (6737248) .....	.MST-10
WARNING (7131518) .....	.MST-12
WARNING (7131519) .....	.MST-14

**MACHINE SIGN
TRANSLATIONS
(MST)**

TO ENGAGE LIFT ARM SUPPORT DEVICE

1. Remove attachment from loader.
2. Unhook spring from pin. Hold lift arm support device. Remove pin.
3. Lower the lift arm support device to the top of the cylinder.
4. Hook spring into slot on top of lift arm support device.
5. Enter loader, fasten seat belt, lower seat bar and start engine.
6. Raise lift arms until lift arm support device drops on cylinder rod.
7. Lower lift arms slowly until movement stops.
8. Stop engine. Raise seat bar. Move pedals until both pedals lock. Leave loader.
9. Install pin into rear of lift arm support device below cylinder rod.



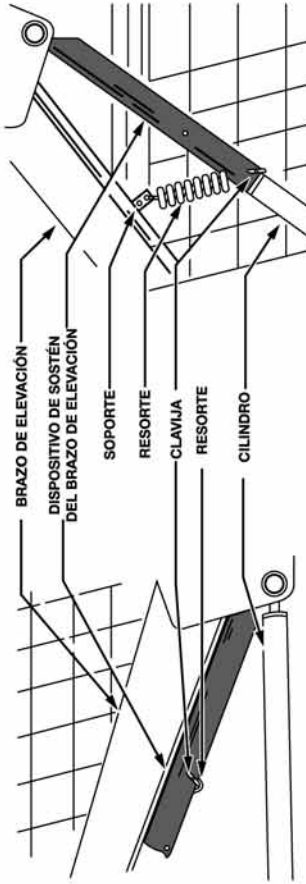
TO DISENGAGE LIFT ARM SUPPORT DEVICE

1. Remove pin.
2. Hook spring into bracket below lift arm (Hook in top hole for Models 953 and 963).
3. Enter loader, fasten seat belt, lower seat bar and start engine.
4. Raise lift arms until lift arm support device raises off cylinder rod.
5. Lower lift arms. Stop engine. Raise seat bar. Move pedals until both pedals lock. Leave loader.
6. Unhook spring from bracket.
7. Raise lift arm support device to storage position.
8. Insert pin through lift arm support device and bracket.
9. Hook spring to pin.

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CMO ENGANCHAR EL DISPOSITIVO DE SOSTÉN DEL BRAZO DE ELEVACIÓN

1. Retire el accesorio de la cargadora.
2. Desenganche el resorte de la clavija. Sostenga el dispositivo de sostén del brazo de elevación. Retire la clavija.
3. Baje el dispositivo de sostén del brazo de elevación hasta la parte superior del cilindro.
4. Enganche el resorte en la ranura sobre la parte superior del dispositivo de sostén del brazo de elevación.
5. Ingrese la cargadora, ajústese el cinturón de seguridad, baje la barra del asiento y encienda el motor.
6. Eleve los brazos de elevación hasta que el dispositivo de sostén del brazo de elevación caiga sobre la varilla del cilindro.
7. Baje los brazos de elevación lentamente hasta que el movimiento se detenga.
8. Detenga el motor. Eleve la barra del asiento. Mueva los pedales hasta que ambos se bloqueen. Retírese de la cargadora.
9. Instale la clavija en la parte trasera del dispositivo de sostén del brazo de elevación debajo de la varilla del cilindro.



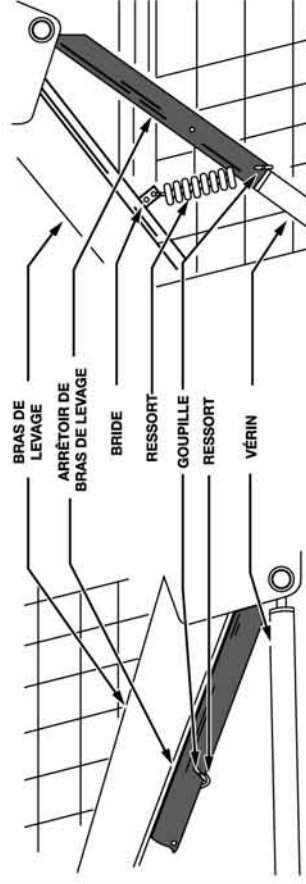
CMO DESENGANCHAR EL DISPOSITIVO DE SOSTÉN DEL BRAZO DE ELEVACIÓN

1. Retire la clavija.
2. Enganche el resorte en el soporte debajo del brazo de elevación (enganche el orificio superior en los modelos 953 y 963).
3. Ingrese la cargadora, ajústese el cinturón de seguridad, baje la barra del asiento y encienda el motor.
4. Eleve los brazos de elevación hasta que el dispositivo de sostén del brazo de elevación se eleve fuera de la varilla del cilindro.
5. Baje los brazos de elevación. Detenga el motor. Eleve la barra del asiento. Mueva los pedales hasta que ambos se bloqueen. Retírese de la cargadora.
6. Desenganche el resorte del soporte.
7. Eleve el dispositivo de sostén del brazo de elevación a la posición de almacenamiento.
8. Introduzca la clavija a través del dispositivo de sostén del brazo de elevación y el soporte.
9. Enganche el resorte a la clavija.

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ENLÈNCHÈMENT DE L'ARRÈTOIR DE BRAS DE LEVAGE

1. Retirez l'accessoire de la chargeuse.
2. Décrochez le ressort de la goupille. Tenez l'arrêt de bras de levage. Retirez la goupille.
3. Abaissez l'arrêt de bras de levage jusqu'à la partie supérieure du vérin.
4. Accrochez le ressort en le passant dans la fente sur l'arrêt de bras de levage.
5. Prenez place dans la chargeuse, bouchez la ceinture, abaissez l'arcade de siège et mettez le moteur en marche.
6. Relevez les bras de levage jusqu'à ce que l'arrêt de bras de levage tombe sur la tige du vérin.
7. Abaissez lentement les bras de levage jusqu'à ce qu'ils s'arrêtent.
8. Arrêtez le moteur. Relevez l'arcade de siège. Bougez les pédales jusqu'à ce qu'elles se verrouillent. Quittez la chargeuse.
9. Installez la goupille à l'arrière de l'arrêt de bras de levage sous la tige du vérin.



DÈSÈNCHÈMENT DE L'ARRÈTOIR DE BRAS DE LEVAGE

1. Retirez la goupille.
2. Accrochez le ressort sur la bride sous le bras de levage (accrochez-le au trou supérieur dans le cas des modèles 953 et 963).
3. Prenez place dans la chargeuse, bouchez la ceinture, abaissez l'arcade de siège et mettez le moteur en marche.
4. Relevez les bras de levage jusqu'à ce que l'arrêt de bras de levage se lève hors de la tige du vérin.
5. Abaissez les bras de levage. Arrêtez le moteur. Relevez l'arcade de siège. Bougez les pédales jusqu'à ce qu'elles se verrouillent. Quittez la chargeuse.
6. Décrochez le ressort de la bride.
7. Relevez l'arrêt de bras de levage en position de rangement.
8. Insérez la goupille dans l'arrêt de bras de levage et la bride.
9. Accrochez le ressort à la goupille.

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(S100) LOADER SPECIFICATIONS (CONT'D)**Controls**

Vehicle Steering	Direction and speed controlled by two hand operated steering levers <i>or</i> optional joystick(s).
Loader Hydraulics - Lift and Tilt - Front Auxiliary (Std.)	Controlled by separate foot pedals <i>or</i> optional Selectable Joystick Control (SJC). Controlled by lateral movement of the right hand steering lever <i>or</i> optional Right Hand Selectable Joystick Control (SJC).
Engine	Hand lever speed control, key type start switch or optional Deluxe Instrumentation Panel and function error shutdown.
Starting Aid	Glow Plugs automatically activated as needed by Instrument Panel.
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering levers <i>or</i> optional joystick(s).
Secondary Brake	One of the hydrostatic transmissions.
Parking Brake	Mechanical disc, manually operated switch on front instrument panel

Hydraulic System

Pump	Engine driven, gear type
Pump Capacity	49,6 L/min (13.1 U.S. gpm) @ 3000 Engine rpm @ 91% efficiency
Filter (Hydraulic)	Full flow replaceable, 3 micron synthetic media element
System Relief Valve Setting	20,7 MPa (207 bar) (3000 psi)
Hydraulic Cylinders Bore Diameter: Lift Cylinder (2) Tilt Cylinder (1) Rod Diameter: Lift Cylinder (2) Tilt Cylinder (1) Stroke: Lift Cylinder (2) Tilt Cylinder (1)	Double acting; Tilt cylinder has cushioning feature on dump & rollback 50,8 mm (2.00 in) 57,2 mm (2.25 in) 31,8 mm (1.25 in) 31,8 mm (1.25 in) 653,5 mm (25.73 in) 307,1 mm (12.09 in)
Control Valve	3-Spool, open center type with spring detent on lift float and electrically controlled auxiliary spool.
Fluid Lines	SAE standard tubelines, hoses and fittings.
Fluid Type	BOBCAT FLUID, Hydraulic / Hydrostatic 6903117 - (Two - 2.5 U.S. gal) 6903118 - (5 U.S. gal) 6903119 - (55 U.S. gal)
Hydraulic Function Time: Raise Lift Arms Lower Lift Arms Bucket Dump Bucket Rollback	2.8 Seconds 1.8 Seconds 1.6 Seconds 1.2 Seconds

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