

621D Loader
Operator's Manual

Bur 6-26530

CASE



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TO THE OWNER

IDENTIFICATION NUMBERS

Write your machine Product Identification Number (P.I.N.) and Serial numbers on the lines provided below. If needed, give these numbers to your dealer when you need parts or information for your machine.

Make a record of the numbers. Keep the record and your Manufacturer's Statement of Origin in a safe place. If the machine is stolen, report the numbers to your local law enforcement agency.

MACHINE MODEL NUMBER

PRODUCT IDENTIFICATION NUMBER

ENGINE SERIAL NUMBER

TRANSMISSION MODEL AND SERIAL NUMBER

ROPS CAB OR CANOPY SERIAL NUMBER

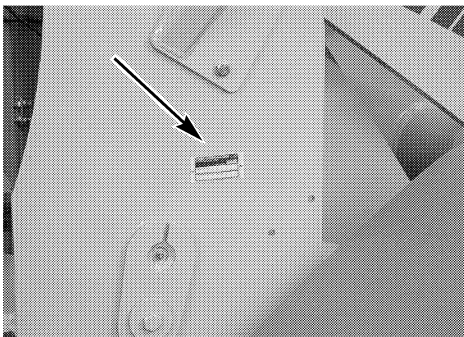
FRONT AXLE MODEL AND SERIAL NUMBER

REAR AXLE MODEL AND SERIAL NUMBER

BUCKET OR ATTACHMENT PART NUMBER

TRIM THIS EDGE

Product Identification Number (P.I.N.)



BD00M072

CASE CORPORATION <small>Made in U.S.A.</small> RACINE, WI 53404 U.S.A.
<small>Marca Registrada</small> CASE <small>®</small>
Model Number
Product Identification Number

RB97D048

 **PARKING THE MACHINE** 

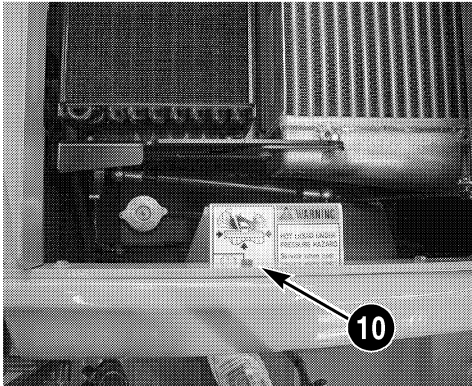
- When you park the machine and before you leave the operators area, always support or lower all attachments (loader, backhoe, etc.) to the ground, apply the parking brake, stop the engine, and remove the key.
- If you must temporarily park the machine on a hillside, put the front of the machine toward the bottom of the hill. Make sure the machine is behind an object that will not move. Put blocks in front of each wheel on the downhill side.
- Always face the machine and use the hand rails and steps when getting off. Do not rush and do not jump from the machine.

 **BURN PREVENTION** 

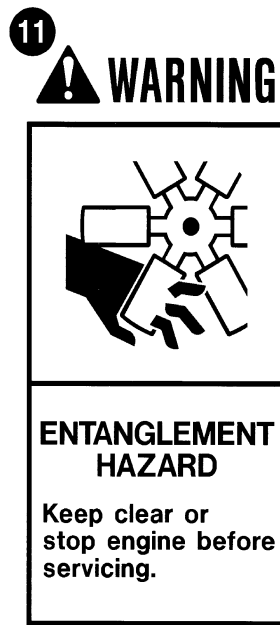
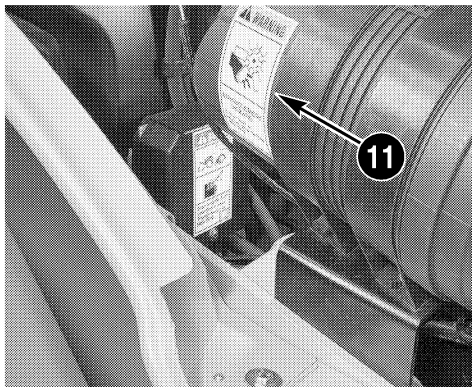
- Batteries contain sulfuric acid which can cause severe burns. Avoid contact with skin, eyes, or clothing. Antidote - EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. DO NOT induce vomiting. Seek medical attention immediately. EYES - Flush with water for 15 minutes and seek medical attention immediately. BATTERIES PRODUCE EXPLOSIVE GASES. Keep sparks, flame, cigars and cigarettes away. Ventilate when charging or using in enclosed area. Always wear eye protection when working with new batteries. Wash hands after handling. KEEP OUT OF REACH OF CHILDREN.
- Hot coolant can spray out if the radiator cap is removed too quickly. To remove the radiator cap, let the cooling system cool, turn the cap to the first notch, wait until the pressure is released, then remove the cap.
- When the battery electrolyte is frozen, the battery can explode if, (1) you try to charge the battery, or (2) you try to jump start and run the engine. To prevent the battery electrolyte from freezing, keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

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SAFETY/DECALS/HAND SIGNALS



BD00M062/329044A1

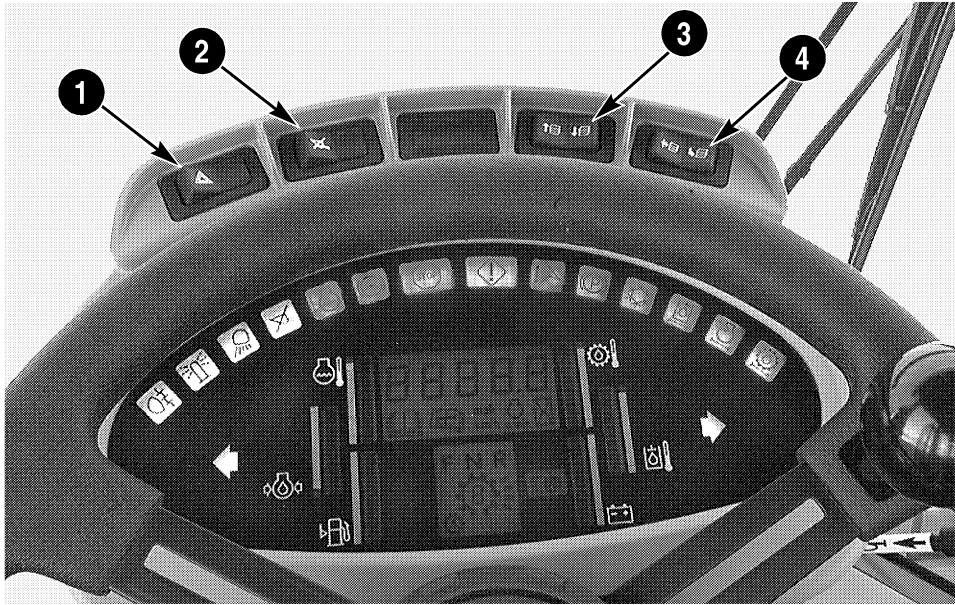


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BD00M005/332512A1

INSTRUMENT/CONTROLS

FRONT CONSOLE



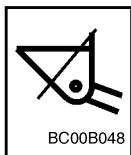
RD98K315

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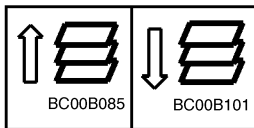
1. FOUR-WAY FLASHER SWITCH:

Push the LH side of the of the flasher switch to actuate the flashers. Push the RH side of the flasher switch for the OFF position.



2. PILOT CONTROL SWITCH:

Push on the LH side of the switch to disable the pilot controls, the pilot control lamp will illuminate when the hydraulic control levers are disabled. The loader linkage will stay in position when the pilot controls are disabled. Push on the RH side of the switch to actuate the pilot controls. The hydraulic control levers will now function.



3. UP/DOWN COUNT SWITCH:

Controls display, used with Program/Reset Switch (see Program Control in this manual for more information).



4. PROGRAM/RESET SWITCH:

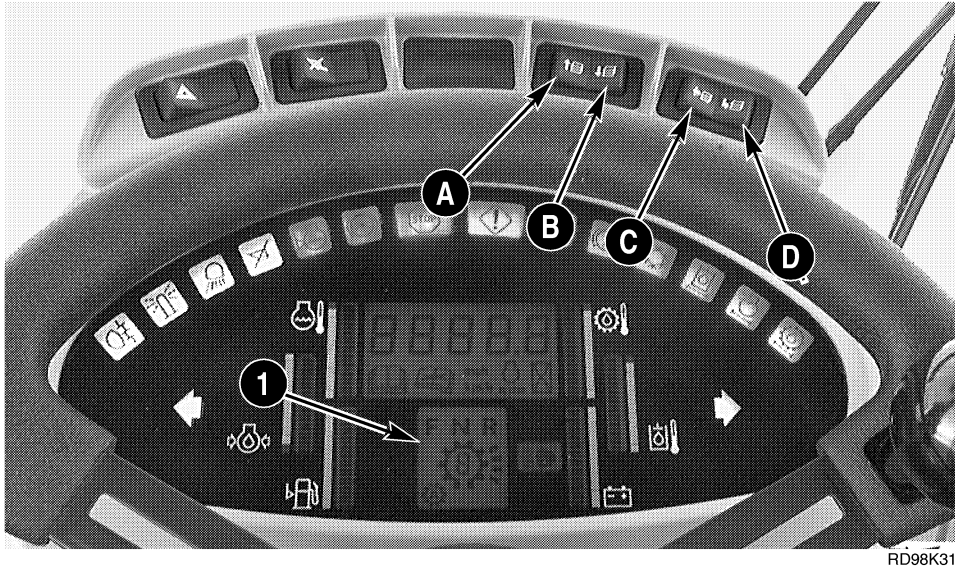
Control display, used with Up/Down Count Switch (see Program Control in this manual for more information).

INSTRUMENTS/CONTROLS

TRANSMISSION TEMPERATURE	High transmission temperature	<ol style="list-style-type: none"> 1. Idle machine and monitor temperature. 2. Clean cooler or Operate fan reverser. (If equipped) 3. Use a lower gear. 4. If condition persists, contact your dealer.
AIR CONDITIONING	High or Low air conditioning pressure.	<ol style="list-style-type: none"> 1. Turn air conditioning OFF. 2. Low outside temperature. 3. Servicing required. 4. If condition persists, contact your dealer.
AIR FILTER	High air filter restriction	<ol style="list-style-type: none"> 1. Clean air filter. 2. Replace primary and secondary filters. 3. If condition persists, contact your dealer.
TRANSMISSION FILTER	Transmission filter restriction.	<ol style="list-style-type: none"> 1. Replace transmission filter. 2. If condition persists, contact your dealer.
HYDRAULIC FILTER	Hydraulic filter restriction.	<ol style="list-style-type: none"> 1. Replace hydraulic filter. 2. If condition persists, contact your dealer.
ALTERNATOR	Alternator malfunction.	<ol style="list-style-type: none"> 1. Check electrical system. 2. Voltages are out of range. 3. Change operating procedure. 4. If condition persists, contact your dealer.
FUEL	Low fuel.	<ol style="list-style-type: none"> 1. Fill fuel tank within the next hour.

TRIM THIS EDGE

INFORMATION CENTER



A. UP COUNT
B. DOWN COUNT

C. PROGRAM
D. RESET

1. INFORMATION CENTER

You can display many of the machine functions on your **Programmable Information Center**. It can be programmed to display all functions, or only the functions that are important to you.

Here are the functions you may choose to see on your **Information Center**:

HOURLMETER - Displays the accumulated running time of the engine in hours and tenths of an hour with an “hour glass” symbol.

NOTE: Machine hour can be checked with out the key switch being in the *ON* position, by pushing in and holding the right side of the program reset switch.

TACHOMETER - Displays the engine speed in revolutions per minute along with an “n/min” symbol.

SPEEDOMETER - Displays the ground speed in either kilometers per hour (km/h) or miles per hour (mph) along with either an “km/h or mph” symbol.

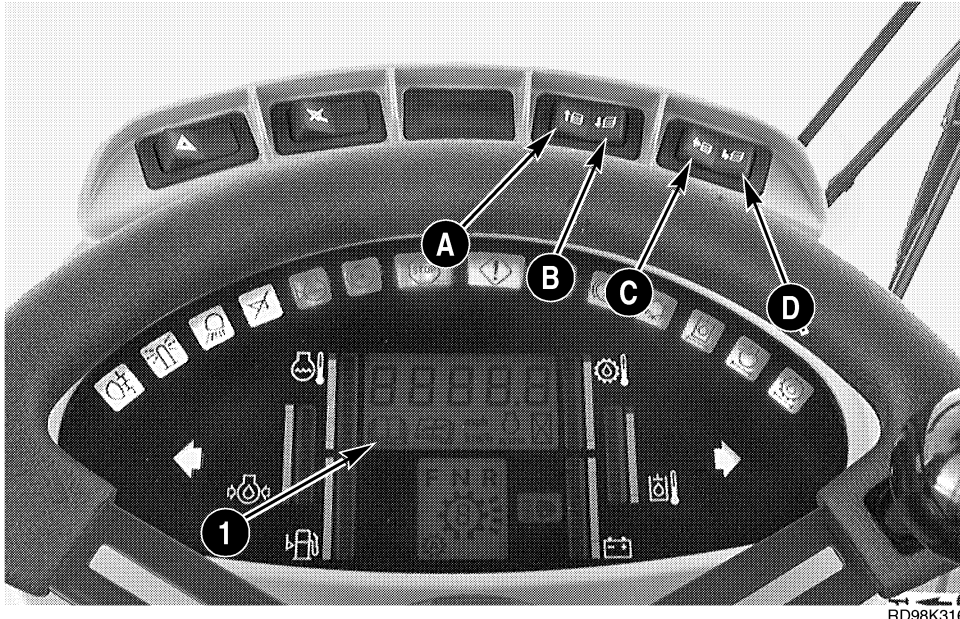
ENGINE COOLANT TEMPERATURE - Displays the engine coolant temperature in Celsius with the engine coolant temperature bar graph flashing.

ENGINE OIL PRESSURE - Displays the engine oil pressure in kilo pascals (kPa) with the engine oil pressure bar graph flashing.

FUEL LEVEL - Displays the fuel level in percent (%) remaining from a full tank with the fuel level bar graph flashing.

TRIM THIS EDGE

GAUGE DISPLAY



A. UP COUNT
B. DOWN COUNT

C. PROGRAM
D. RESET

TRIM THIS EDGE

To View a Selected Function On Your Display Center do the following:

- Press the **program** (C) switch (left side of the **program/reset** (C, D) switch).
- Press the **up count** (A) switch until the display reads the function of your choice (**000 - 009**).
- Return the **program/reset** (C, D) switch to **OFF** (center) position.

You will now see the function you've chosen.

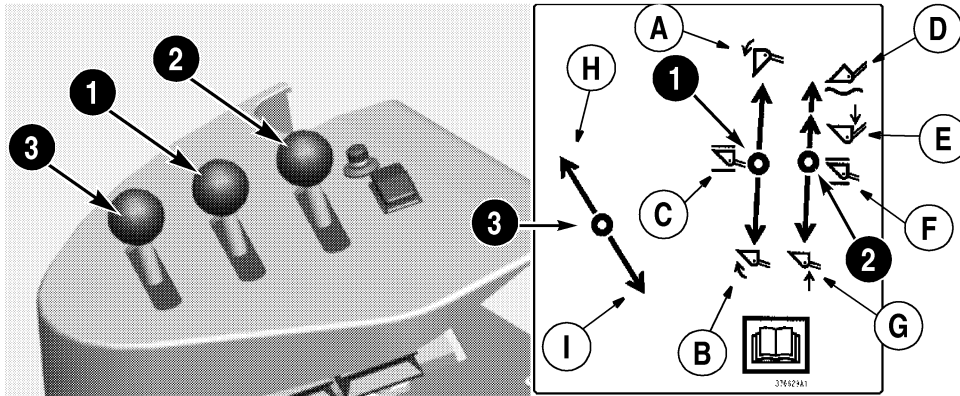
Example: Lets say you were interested in seeing the engine coolant temperature. You would do the following:

- Press the **program** (C) switch (left side of the program/reset switch).
- Press the **up count** (A) switch until the display reads **004**.
- Return the **program/reset** (C, D) switch to the **OFF** (center) position.

You will now see the engine coolant temperature on your **Display Center**.

The engine coolant temperature bar graph will flash indicating this is the function being displayed.

Three Spool - Three Levers



412/376629A1

1. BUCKET CONTROL

A. DUMP

B. ROLLBACK

C. HOLD: The loader arms and bucket will not move when the control lever is in the HOLD position. When released, the control lever will automatically return to the HOLD position. You must manually move the control lever from the FLOAT position to the HOLD position.

2. LIFT ARM CONTROL

D. FLOAT (Detent): This is a detent position. When in the FLOAT (Detent) position, the loader bucket can follow the level of the ground without movement of the control lever.

E. LOWER

F. HOLD: The loader arms and bucket will not move when the control lever is in the HOLD position. When released, the control lever will automatically return to the HOLD position. You must manually move the control lever from the FLOAT position to the HOLD position.

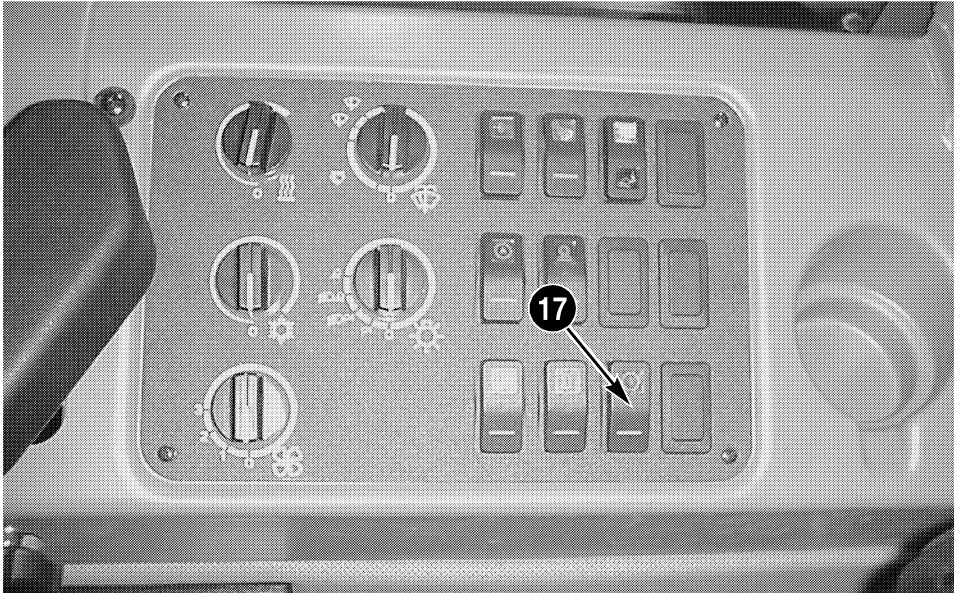
G. RAISE

3. AUXILIARY CONTROL

H. AUXILIARY FUNCTION

I. AUXILIARY FUNCTION

TRIM THIS EDGE



BD01E113

17. F-N-R Switch (If equipped)

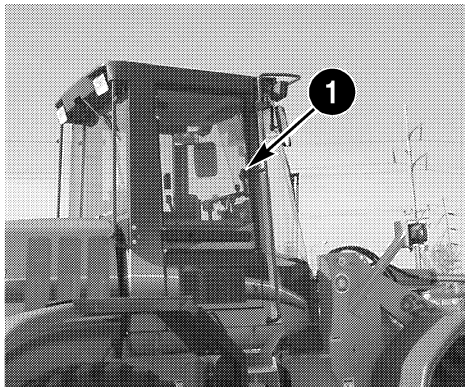
Enable the auxiliary F-N-R switch by pushing down on the top of the enable switch. The indicator light on the bottom of the enable switch will illuminate when activated. By following the correct sequence and enabling the auxiliary F-N-R the operator may select FORWARD-NEUTRAL-REVERSE from the LOADER CONTROL LEVER or the AUXILIARY F-N-R SWITCH. See pages 114 and 116 for a complete description of the F-N-R sequence.

TRIM THIS EDGE

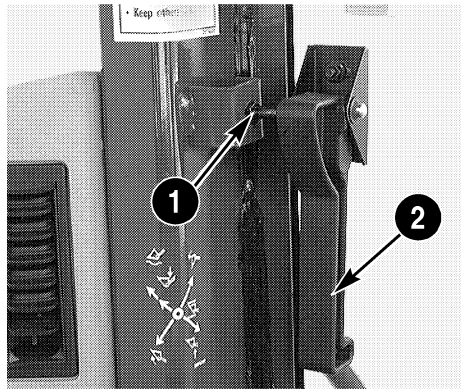
Inspection and Care

1. Keep sharp edges and items that can cause damage, away from the belts.
2. From time to time, check belts, buckles, retractors, tethers, slack take-up system and mounting bolts for damage.
3. Replace all parts that have damage or wear.
4. Replace belts that have cuts that can make the belt weak.
5. Check that bolts are tight on the seat bracket or mounting.
6. If belt is attached to seat make sure seat or seat brackets are mounted securely.
7. Keep seat belts clean and dry.
8. Clean belts only with a soap solution and warm water.
9. Do not use bleach or dye on the belts because this can make the belts weak.

Emergency Exit



1. EMERGENCY EXIT



1. PIN
2. LATCH

Lift and pull the latch out of the pin.
Push the Right hand window open.

TRIM THIS EDGE

Booster Battery Connections to Machine Batteries (Jump Start)



WARNING: Batteries contain acid and explosive gas. Explosion can result from sparks, flames or wrong cable connections. To connect the jumper cables correctly to the battery of this machine, see the correct method shown on this page. Failure to follow these instructions can cause serious injury or death.

SA006



WARNING: Battery explosion and/or damage to electrical components can result from improper connection of booster batteries or charger. Connect positive to positive and negative to negative. Externally, battery acid can cause burns and blindness, and taken internally it is poison.

M146B

Two persons are required for this procedure. Make sure the person making the connections is wearing face protection.

IMPORTANT: The machine may only be Jump Started from the **LEFT** side of the machine.

NOTE: Make sure the batteries are not frozen. Do not use batteries that have been frozen. Replace the batteries if the batteries have been frozen.

1. Open the rear hood. Sit in the operators seat and have the other person make the connections.
2. If using jumper batteries, make sure the jumper batteries are 24 volts.
3. If using another machine for power, make sure the two machines, DO NOT touch.
4. Connect the positive (+) jumper cable to the positive (+) battery terminals first.
5. Connect the negative (-) jumper cable to the negative (-) terminal on the jumper batteries or the other machine. Connect the other end of the negative (-) jumper cable to a good frame ground away from the batteries.
6. Start the engine according to the instructions in this manual. See Starting the Engine in this manual.
7. Have the other person disconnect the jumper cables in the reverse order that the jumper cables were connected in. Close the rear hood.

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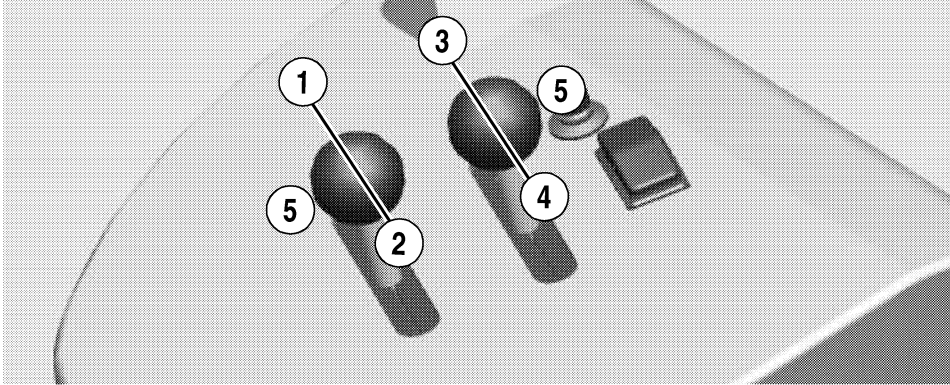
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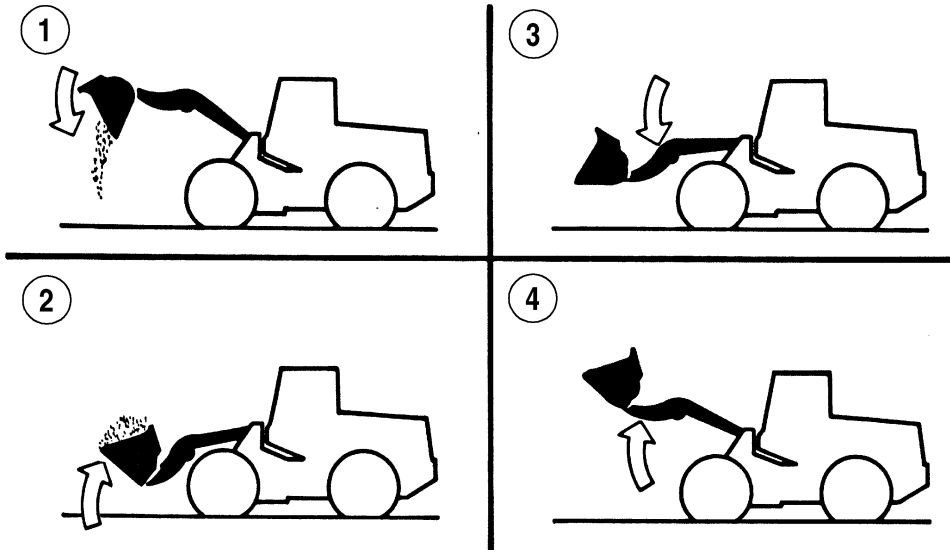
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TWO SPOOL VALVE - TWO CONTROL LEVERS



BC01E133

See Loader Function Switches in this manual for RETURN-TO-DIG, BUCKET HEIGHT CONTROL and RETURN-TO-TRAVEL/FLOAT switches.



TRIM THIS EDGE

1. DUMP BUCKET

2. ROLLBACK BUCKET

5. HOLD: THE LOADER ARMS AND BUCKET WILL NOT MOVE WHEN THE CONTROL LEVERS ARE IN **HOLD**. WHEN RELEASED, THE CONTROL LEVERS WILL RETURN TO **HOLD** AUTOMATICALLY.

3. LOWER LIFT ARMS

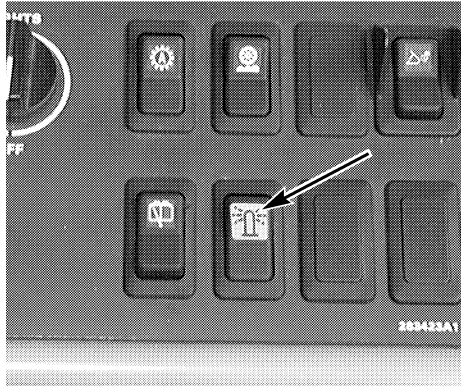
4. RAISE LIFT ARMS

B1119A88J

NOTE: This page shows the basic loader control lever positions. The Detent Switch is in the **OFF** position.

ROTATING BEACON (IF EQUIPPED)

The rotating beacon control switch is on the RH console. Push the top of the switch for ON position and push the bottom of the switch for OFF position.



RD97K027

RIDE CONTROL (IF EQUIPPED)



Ride Control is a feature that increases the ride comfort of the Wheel Loader over all types of terrain with either an empty or loaded bucket. Ride Control will reduce Fore and Aft pitching motion during travel to allow faster speeds in load and carry applications for increased productivity and operator comfort. It will also reduce shock loads to the Wheel Loader for reduced tire flex, structural fatigue and vibration, resulting in longer component life and reduced costs.

The machine is equipped with speed dependent ride control. Push on the function switch symbol to activate. With ride control active, the green indicator light will illuminate anytime the machine is traveling faster than 5 km/h (3.1 mph) indicating that the ride control is functioning. Ride control will disengage automatically at slower speeds for loading and unloading.

Ride Control can be left ON at all times, whether loading or roading.

To turn Ride Control OFF, push on the bottom of function switch for the OFF position.

NOTE: *Ride Control should be OFF when the bucket is used in fine grading operation or when precision placement of a load suspended from the bucket or other attachment is required.*

TRIM THIS EDGE

WHEELS/TIRES/BALLAST

WHEELS AND TIRES



WARNING: *Exploding tires and/or rim parts can cause injury or death. Keep yourself and others out of the DANGER AREA. Stand on the tread side of the tire. Always use the correct air pressure and follow the instructions in this manual for adding air or servicing the tires.*

SD020



WARNING: *Explosive separation of the tire and/or rim parts can cause injury or death. When tire service is necessary, have a qualified tire mechanic service the tire.*

84-113



WARNING: *DO NOT weld to wheel or rim when a tire is installed. Welding will cause an explosive air/gas mixture that will be ignited with high temperatures. This can happen to tires inflated or deflated. Removing air or breaking bead is not adequate. Tire MUST be completely removed from the rim prior to welding.*

SB134

BALLAST

It is the recommendation of the Case Corporation NOT to add Ballast to the tires of your machine. Make sure tires are properly inflated. See the Tire Chart on page 139 of this manual.

TRIM THIS EDGE

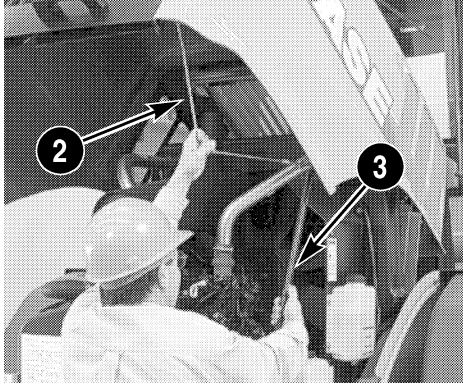
THE ENGINE HOOD



BD01E128

1. HANDLE

1. Push lock button and raise hood to open. Open hood until support strut locks full open.



BD01A003

2. ASSIST CABLE

3. STRUT RELEASE TAB

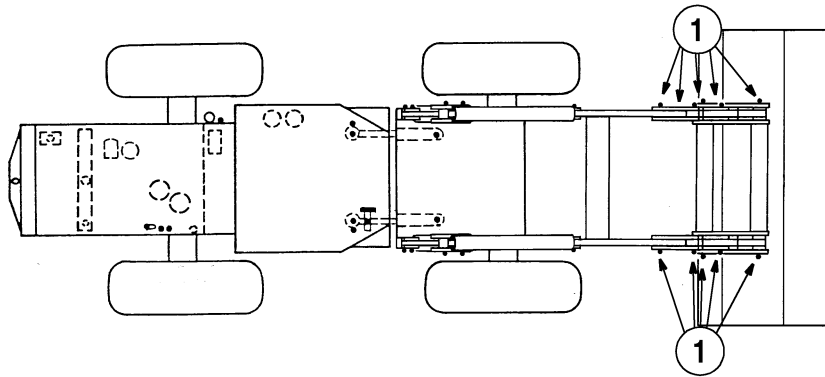
2. To close hood pull down on assist cable (2) while pushing red strut release tab (3).

TRIM THIS EDGE

GREASE FITTINGS - 50 HOURS

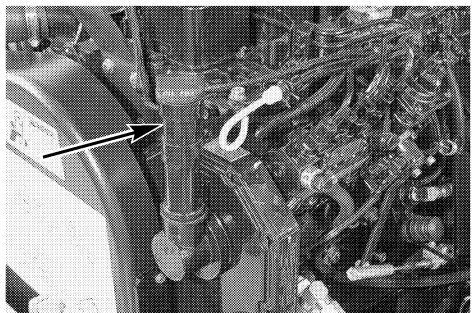
XT Linkage

Use Case Molydisulfide Grease



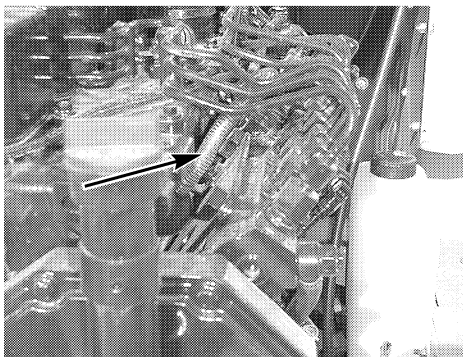
1. Bucket and Bell crank Pivot Points 10 907L92

TRIM THIS EDGE



BD00M016

1. ENGINE OIL FILLER PIPE



BD01E139

1. ELECTRICAL CONNECTOR

10. Fill the turbocharger oil lines with oil.

- A. Disconnect the wire (Shown) from the injection pump solenoid. This will prevent the engine from starting.
- B. Turn the key switch to the START and actuate the starter for 10 to 30 seconds.
- C. Connect the wire to the injection pump solenoid.

11. Start the engine and run at idle speed. Check the engine oil filter for leaks. After two minutes, stop the engine, wait for 2 or 3 minutes, and check the engine oil level with the dipstick.

12. Close the engine access doors.

Systemgard Lubrication Analysis Program

The normal engine oil change interval is every 250 hours of operation or once a year whichever occurs first. Operating conditions, quality of the engine oil and sulphur content of the fuel can change this interval. It is recommended to use the Systemgard Lubrication Analysis Program. See your dealer.

TRIM THIS EDGE



WARNING: Never drain oil or remove oil filter while engine is running.

CM107



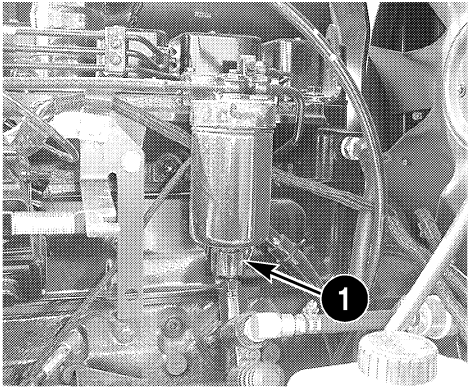
WARNING: Replace all covers or guards after servicing or cleaning the machine. NEVER operate the machine with covers or guards removed.

CM115

Removing Water and Sediment from the Fuel System

Drain the water for the fuel filter after every 50 hours of operation. Drain the water and sediment from the fuel tank after every 500 hours of operation.

1. Turn the drain valve on the fuel filter counterclockwise 2 or 3 turns and drain the water from the fuel filter.
2. Close the drain valve.
3. Use a large enough container and drain water and sediment from the fuel tank. Dispose of water and sediment properly.



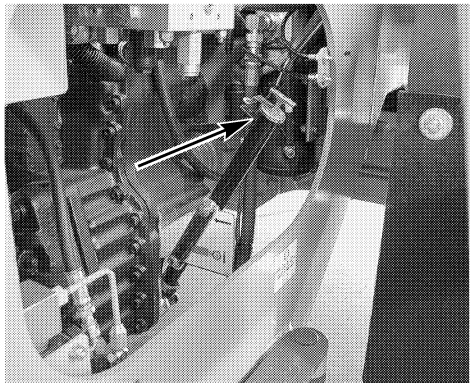
1. WATER DRAIN

BD01E130

TRIM THIS EDGE

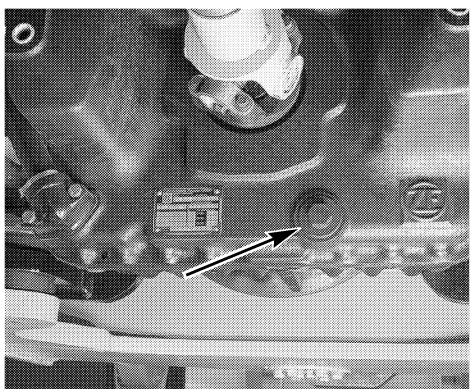
LUBRICATION/FILTERS/FLUIDS

4. Remove the filler tube plug.



BD00M028

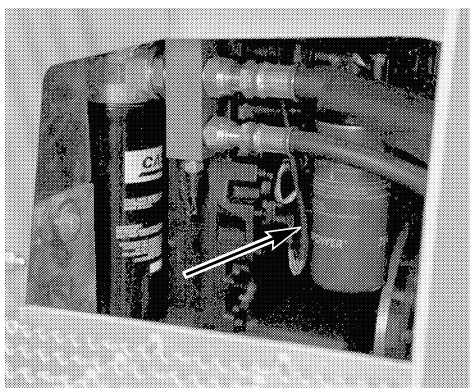
5. Remove the drain plug and drain the oil from the transmission.



RB97G074J

1. DRAIN PLUG 2. O-RING

6. Remove the transmission filter. Discard the old transmission filter.



BD00N081

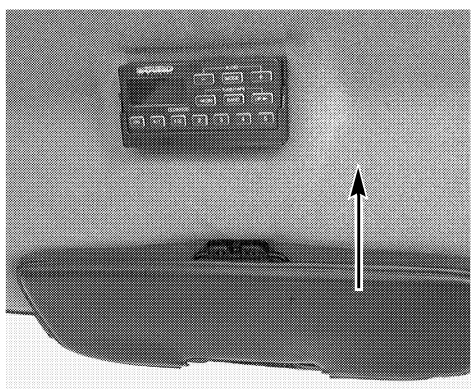
7. Install the filter as shown. Make sure the filter is SEATED against the filter base.
8. Spin the breather cap a few times with your finger every 1000 hours. (It is located directly on top of the transmission.)
9. If the breather cap does not spin easily perform lines 10 and 11.
10. Remove the breather. Clean the breather with solvent and dry with compressed air. Be sure to wear face protection when using compressed air.
11. Install the breather.
12. Install the drain plug. Put new oil into the transmission. See Transmission Service Specifications in this manual.
13. Check the oil level in the sight gauge.
14. Start the engine and check for oil leaks around the filters and drain plug.
15. Increase the transmission oil temperature to operating temperature and check the oil level again.
16. Stop the engine and return the transport/service link to the OPERATING position.

TRIM THIS EDGE

Cab Headliner

The foam headliner in your cab decreases noise. To keep the headliner in good operating condition, remove dust with a vacuum cleaner.

IMPORTANT: *DO NOT wash the headliner with water because water can cause damage to the headliner and lower the noise control capacity of the headliner.*



RD97F215

Door Hinges

Use graphite to lubricate all hinges. **DO NOT** use oil.

Hoses and Wiring

Check all hoses and wiring for damage. If damage occurred, see your dealer for repair or replacement.

TRIM THIS EDGE

MAINTENANCE/ADJUSTMENT

4. Loosen the bolts holding the proximity switch mounting bracket to the cylinder. Position the proximity switch face parallel to the target bar surface, and tighten the bolts. Next adjust the proximity switch out toward the target bar until an air gap of 3.5 - 5.0 mm (1/8 - 3/16 inch) is obtained. The proximity switch must not protrude past the proximity switch guard. Lock the proximity switch in position with its jam nut. Torque the jam nut to 5.0 ft. lbs.
5. Start the engine. Position the bucket flat on the ground. Shut the machine off. Loosen the bolts holding the target bar to the target mounting bracket. Slide the target bar away from the proximity switch until the face of the proximity switch is completely uncovered. Align the target bar parallel to the tilt cylinder, and tighten the bolts.
6. Turn the ignition switch to the on position (not accessory position). Do not start the engine. Position the bucket control lever to the full roll back position. The electromagnetic detent should hold the control lever in this position.
7. Loosen the bolts holding the target bar to the target mounting bracket. Slowly slide the target bar towards the proximity switch. When the proximity switch face is nearly covered by the target bar, the switch will be activated, and the control lever will return to the center position. Tighten the bolts maintaining this location of the target bar. Verify that the 3.5 to 5.0 mm (1/8-3/16 inch) gap is maintained between the target bar and the proximity switch.
8. Make sure the proximity switch and all the mounting bolts are tight. Start the engine. Set the detent switch to the on position, and set the return to travel/float detent switch to the return to travel position. Raise the lift arms to approximately the horizontal position. Position the bucket to the fully dumped position. Put the loader control lever in the roll back position, and verify that the electromagnet holds it in that position until the end of the target bar passes in front of the proximity switch. Lower the lift arms to the ground, and verify the bucket is flat on the ground.

TRIM THIS EDGE

ELECTRICAL SYSTEM

Battery Safety



WARNING: Before you service a battery, always wear face protection, protective gloves and protective clothing. Battery acid or battery explosion can cause serious injuries.

SA046



WARNING: Battery acid causes severe burns. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote - **EXTERNAL:** flush with water. **INTERNAL:** drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately. **EYES:** flush with water for 15 minutes and get prompt medical attention.

SB032



WARNING: When the battery electrolyte is frozen, the battery can explode if, (1) you try to charge the battery, or (2) you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

SA033



WARNING: Sparks or flame can cause hydrogen gas in a battery to explode. To prevent an explosion, do the following:

1. When you disconnect the battery cables, always disconnect the negative (1) battery cable first.
2. When you connect the battery cables, always connect the negative (-) cable last.
3. Do not short circuit the battery posts with metal items.
4. Do not weld, grind, or smoke near a battery.

SB034

TRIM THIS EDGE

BATTERY SERVICE

NOTE: The electrical system in this machine is 24 volts. Each battery is 12 volts.

Before you service components of the electrical system, always disconnect the **NEGATIVE (-)** battery cable.

Do not run the engine with the battery cables disconnected or with the alternator wires disconnected.

Before you use an electric welder, disconnect the alternator wires, instrument cluster, and turn the master disconnect switch to OFF.

Do not use a steam cleaner or cleaning solvent to clean the alternator.

SPECIFICATIONS

ENGINE DATA 621D

Make and model Case 6T - 590
 Air Induction Turbocharged and Intercooled Turbocharged
 Bore and stroke 102 x 120 mm (4.02" x 4.72")
 Displacement 5.9 Liters (359 cu inch)
 Compression ratio 17.5 to 1
 Horsepower
 SAE gross 102 kW at 2000 r/min (137 at 2000 rpm)
 SAE net 93 kW at 2000 rpm (125 at 2000 rpm)
 Engine speeds
 Idle speed 920 to 980 rpm
 Hydraulic Stall 1980 to 2120 rpm
 Converter Stall 1920 to 2120 rpm
 Combined Hydraulic and Converter Stall 1335 to 1570 rpm
 Valve Clearance (Engine Cold)
 Intake Valves 0.254 mm (0.010 inch)
 Exhaust Valves 0.508 mm (0.020 inch)

TRAVEL SPEEDS 621D with 17.5 x 25 Tires)

	FIRST		SECOND		THIRD		FOURTH	
	km/h	(mph)	km/h	(mph)	km/h	(mph)	km/h	(mph)
Forward	6.4	(4.0)	12.4	(7.7)	22.1	(13.7)	35.7	(22.2)
Reverse	6.7	(4.2)	13.1	(8.1)	23.1	(14.4)	-----	-----

Buckets

DESCRIPTION	WIDTH	CAPACITIES				WEIGHT	
		SAE Heaped		Struck		kg	lbs
		m ³	yd ³	m ³	yd ³		
General Purpose	2602 mm (102.4 in)	1.91	(2.50)	1.66	(2.17)	705	(1 555)
General Purpose	2602 mm (102.4 in)	2.10	(2.75)	1.77	(2.32)	842	(1 856)
Material Handling	2602 mm (102.4 in)	2.29	(3.00)	1.96	(2.56)	884	(1 949)
XT Attachment	2602 mm (102.4 in)	1.91	(2.50)	1.64	(2.14)	1 315*	(2 900*)

*Weight includes coupler

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