

621D WHEEL LOADER

Operators Manual

P.I.N. JEE0135501 and After



Bur 6-36080EUR

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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 _____

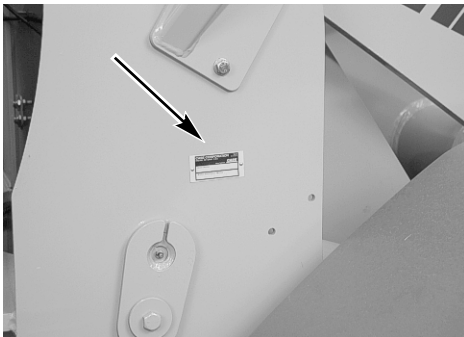
FRONT AXLE MODEL AND SERIAL NUMBER _____

REAR AXLE MODEL AND SERIAL NUMBER _____

BUCKET OR ATTACHMENT PART NUMBER _____

TRIM THIS EDGE

Product Identification Number (P.I.N.)



BD00M072

CASE CORPORATION		Made in U.S.A.
RACINE, WI 53404 U.S.A.		CASE
Marca Registrata		
Model Number	621D	Engine Power
		99 kW
Product Identification Number		
Front Axle Load	6950 kg	Rear Axle Load
		8300 kg
Total Weight	13800 kg	CE Mark
		CE

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RIGHT PAGE

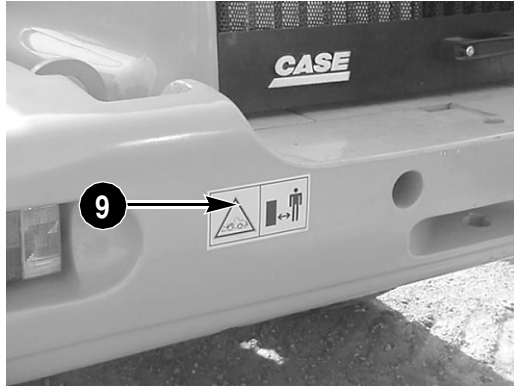
 **PARKING THE MACHINE** 

- 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** 

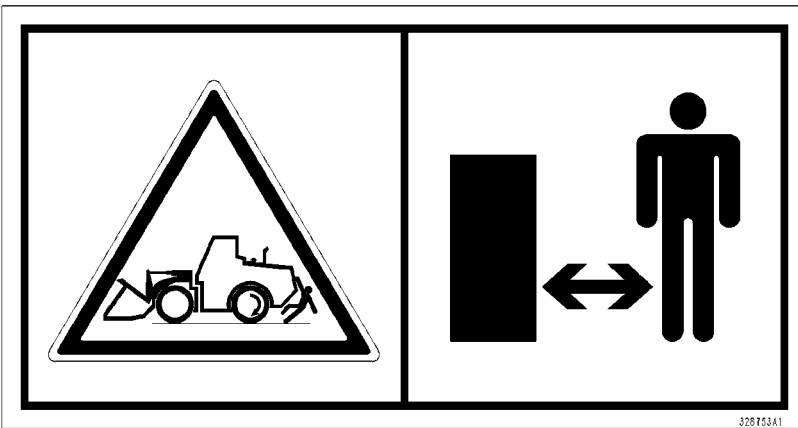
- Batteries contain sulfuric acid which can cause severe burns. Avoid contact with skin, eyes, or clothing. Antidote - EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. DO NOT induce vomiting. Seek medical attention immediately. EYES - Flush with water for 15 minutes and 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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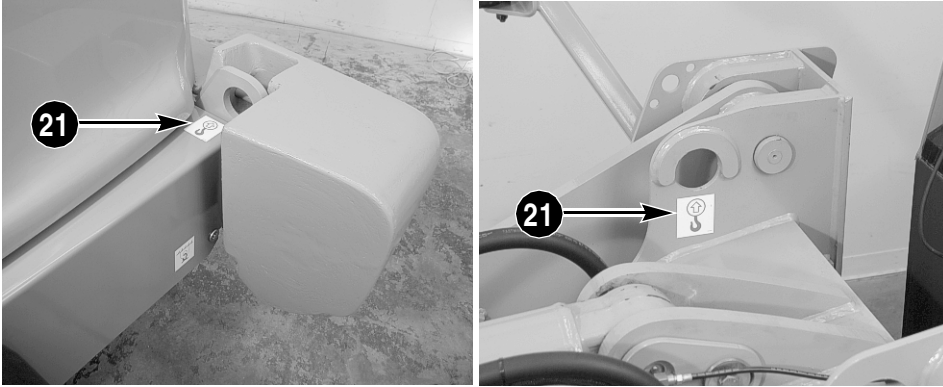
9



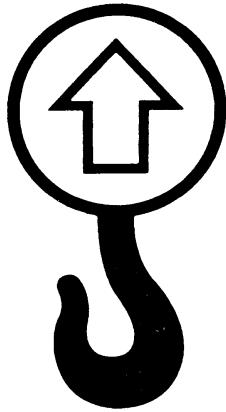
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RUNOVER HAZARD, KEEP CLEAR OF MACHINE

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MACHINE LIFT POINTS

BD00M039 / BD00M058 / 139729A1

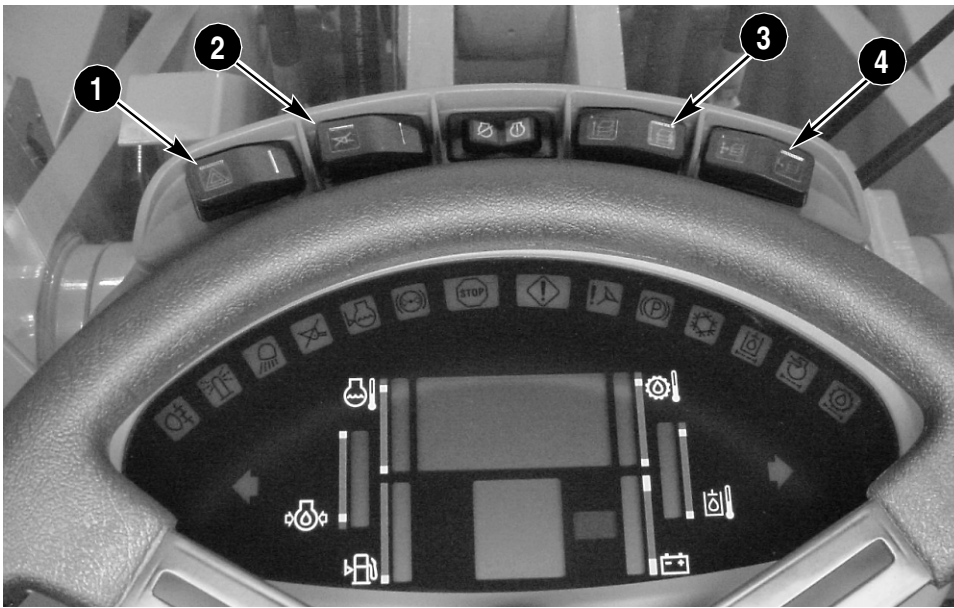
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INSTRUMENT/CONTROLS

FRONT CONSOLE



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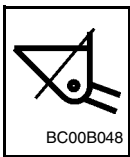
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BC00B087

1. FOUR-WAY FLASHER SWITCH:

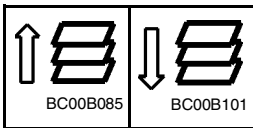
Push the LH side of the of the flasher switch to actuate the flashers. Push the RH side of the flasher switch for the OFF position.



BC00B048

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.



BC00B085

BC00B101

3. UP/DOWN COUNT SWITCH:

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



BS98M034

BS98M034

4. PROGRAM/RESET SWITCH:

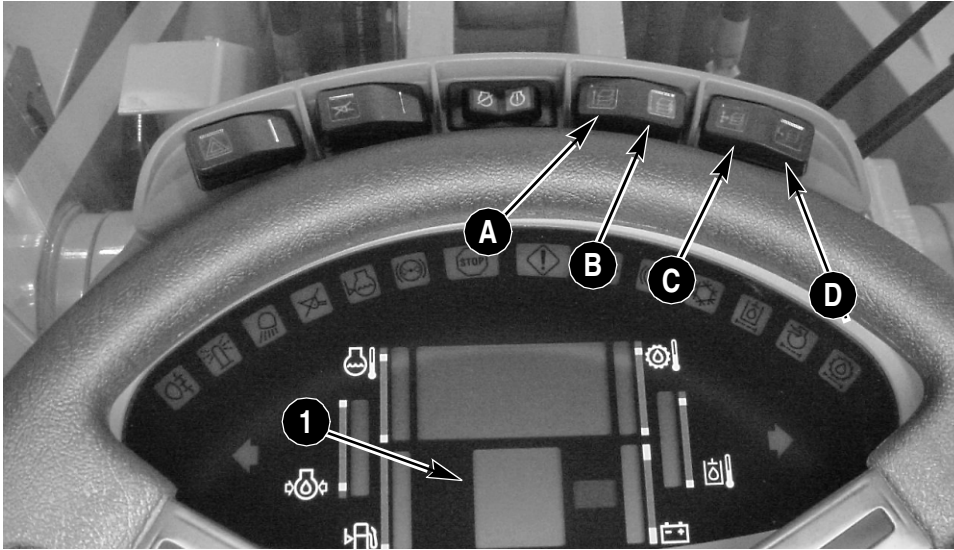
Control display, used with Up/Down Count Switch (see Program Control in this manual for more information).

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.

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INFORMATION CENTER



- A. UP COUNT C. PROGRAM
B. DOWN COUNT D. RESET

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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.

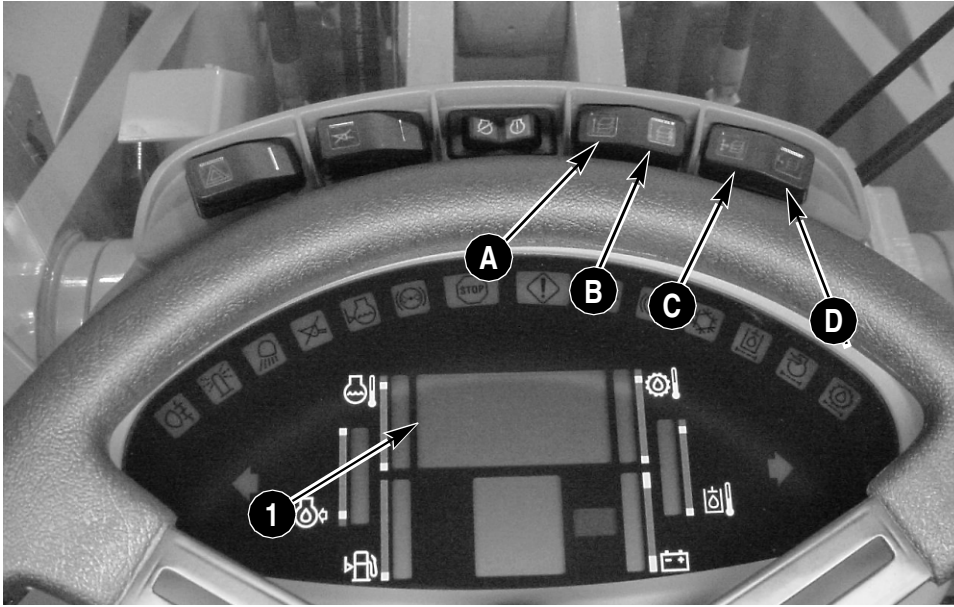
FUEL LEVEL - Displays the fuel level in percent (%) remaining from a full tank with the fuel level bar graph flashing.

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RIGHT PAGE

GAUGE DISPLAY



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- | | |
|---------------|------------|
| A. UP COUNT | C. PROGRAM |
| B. DOWN COUNT | D. RESET |

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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.

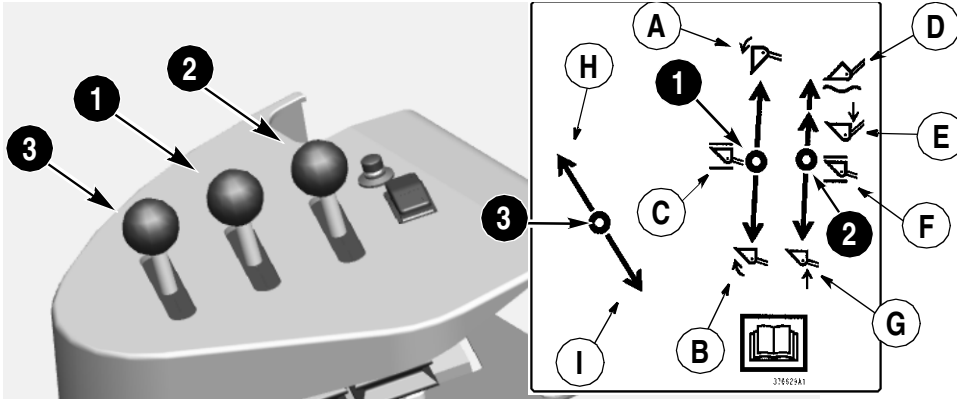
Example: Lets say you were interested in seeing the engine coolant temperature. You would do the following:

- 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.

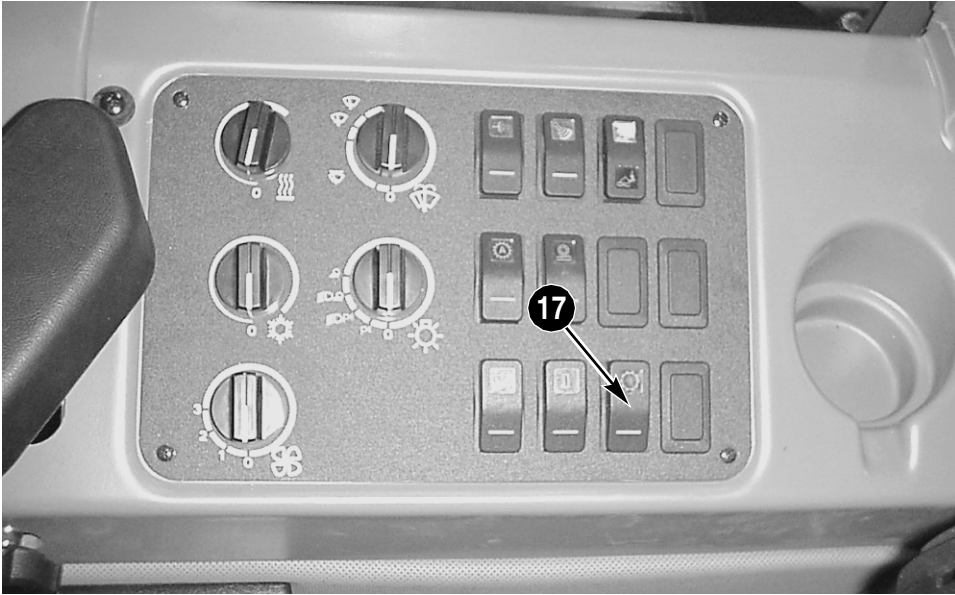
G. RAISE

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 FNR SWITCH. See pages 118 and 120 for a complete description of the F-N-R sequence.

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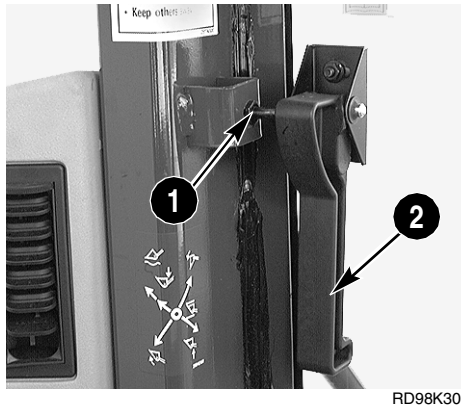
Inspection and Care

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.

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BEFORE YOU OPERATE



WARNING: Before each period of operation, check the machine for correct operation of the steering, brakes, hydraulic controls, instruments, and safety equipment. Check the NEUTRAL position of the transmission control lever. A machine that runs correctly can prevent accidents. Make all necessary repairs or adjustments before you operate the machine.

SA040

Before You Operate the Machine

Before you operate the machine each day or before shift test the machine for correct operation.

1. Have the machine in a clear level area and make sure all persons are clear of your machine.
2. Adjust the seat so that you can apply the foot brakes when your back is against the seat backrest.
3. Fasten and adjust the seat belt.
4. With the engine running and at operating temperature, check the instrument panel for correct indications.
5. Check the loader controls for correct operation.
6. Periodically test the parking brake neutral interlock function:
 - A. Apply the parking brake by pushing down on the top side of the switch.
 - B. Enable the pilot control levers by pushing down on the right side of the switch.
 - C. Push down and hold your foot against the brake pedal.
 - D. Raise the loader bucket above the ground.
 - E. Shift the transmission into first gear forward.
 - F. The warning buzzer will sound.
 - G. Take your foot off the brake pedal.
 - H. Increase the engine speed to 1/2 throttle. The machine must not move. If the machine moves, see the service manual or see your authorized dealer and correct the problem. When the parking brake is applied, the transmission is automatically shifted into Neutral.

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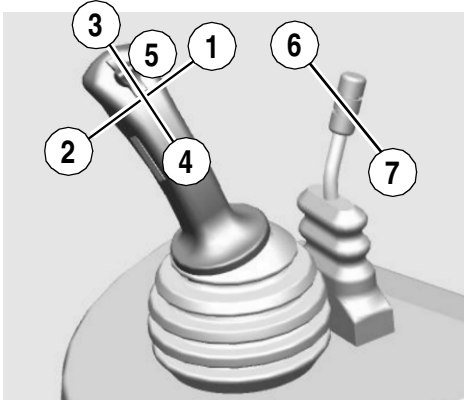
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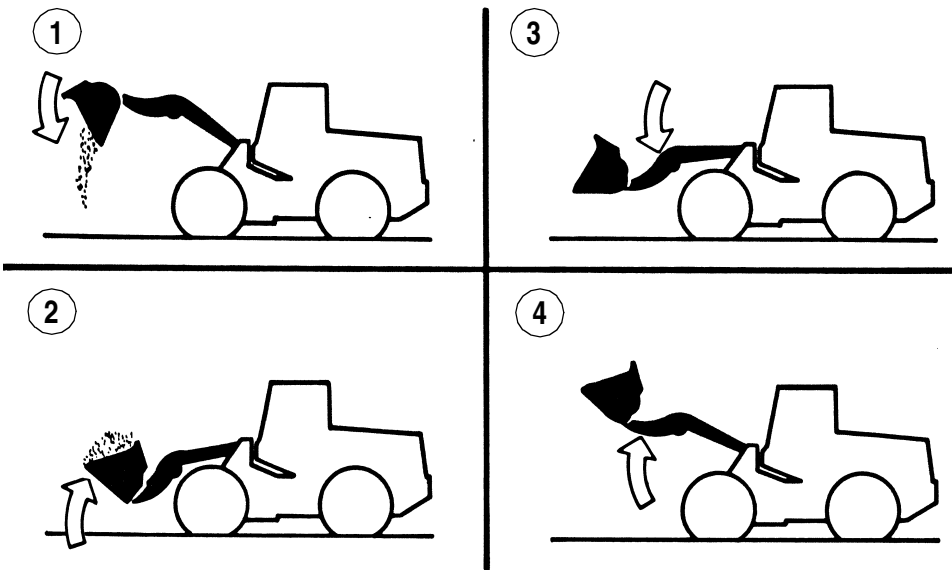
THREE SPOOL VALVE - TWO CONTROL LEVERS



BS01E143

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

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
- 3. LOWER LIFT ARMS
- 4. RAISE LIFT ARMS
- 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.
- 6. AUXILIARY FUNCTION
- 7. AUXILIARY FUNCTION

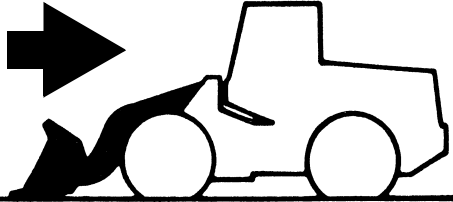
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LOADER OPERATING TIPS

This Wheel Loader, with standard equipment and authorized attachments, is intended to be used for above ground level digging and general earth moving purpose such as land leveling, truck loading, material rehandling and ditch cleaning. If the machine is to be used for lifting objects, make sure that the machine is properly equipped and follow the instructions and safety precautions in this manual.

Leveling Operation

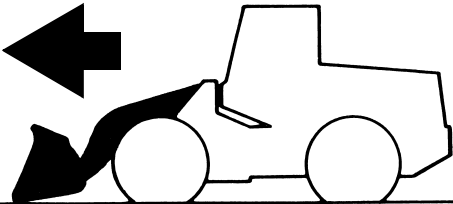
Always operate the machine in reverse when leveling the surface.



Pushing Operation

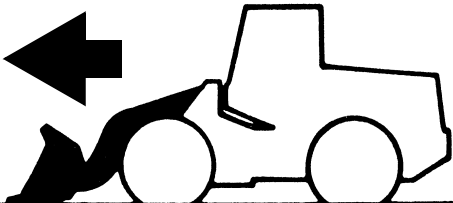
When pushing material do not set the bucket dumping angle more than 20 degrees.

IMPORTANT: *The bucket MUST NOT be in the FULL DUMP position during the pushing operation.*



Scraping Operation

When scraping hard or frozen surfaces the bucket must be level and flat to the surface. Operate the machine at a slow speed.



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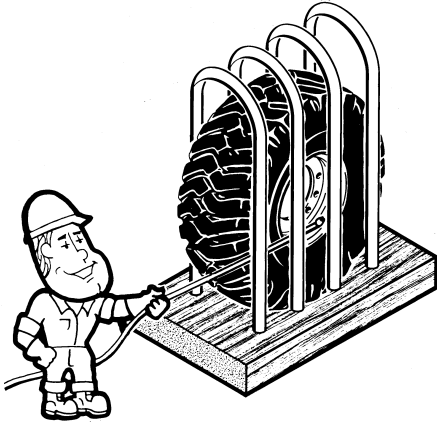
WARNING: Impact Hazard - *Bucket edge or teeth can catch on frozen surface or buried object during surface scraping operations. Before operation inspect the area for objects the bucket can catch on and mark them. During operation make sure the bottom of the bucket is level with the surface to be scraped. Operate the machine around the objects and at slow speed. Injury to the operator and damage to the machine can result if these precautions are not followed.*

M465

Adding Air to the Tires

This procedure is only for adding air to the tire. If the tire has lost most or all of the air, do the following.

1. Before you add air, have the wheel correctly installed on the machine or put the wheel in a restraining device (tire inflation cage).



B790490R

2. Use an air hose with remote shutoff valve and a self-locking air chuck.
3. Stand **BEHIND** the tread of the tire and make sure **ALL** persons are away from the side of the tire before you start to add air.



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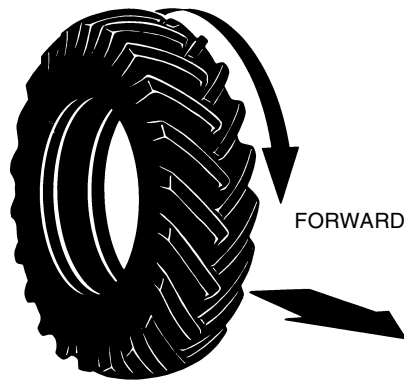
4. Inflate the tire to the recommended air pressure. **DO NOT** inflate the tire more than the recommended pressure given on the following page.

Tire or Rim Service

Always have a qualified tire mechanic service the tires and rims for this machine. It is recommended that you have this mechanic inflate the tires. To prevent accidents, use a restraining device (tire inflation cage), correct equipment, and correct procedure. Explosive separation of the tire (single piece rim) or the tire and/or rim parts (multi-piece rim) can cause serious injury or death.

Tire Tread Direction

When the tire is installed on the wheel make sure the tire tread is in the direction shown.



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FLUIDS AND LUBRICANTS - 621D

Engine Crankcase

Oil Capacity - with filter change..... 16.2 liters (17.1 U.S. Quarts)
Specifications..... See Engine Lubrication in this manual

Cooling System

Capacity24 liters (25.3 U.S. Quarts)
Specifications..... 50% water and 50% Ethylene Glycol

Fuel Tank

Capacity 189.3 liters (50 U.S. Gallons)
Specifications..... See Diesel Fuel System in this manual

Hydraulic/Brake System

Reservoir Refill Capacity with filter change.....68.5 liters (18 U.S. Gal.)
Total System Capacity 113.6 liters (30 U.S. Gal.)
Specification..... Case AKCELA Hy-Tran[®] Ultra MS-1209

Transmission

Refill Capacity - with filter change18.9 liters (20 U.S. Quarts)
Total System Capacity26 liters (27.5 U.S. Quarts)
Specifications..... Case AKCELA Hy-Tran[®] Ultra MS-1209

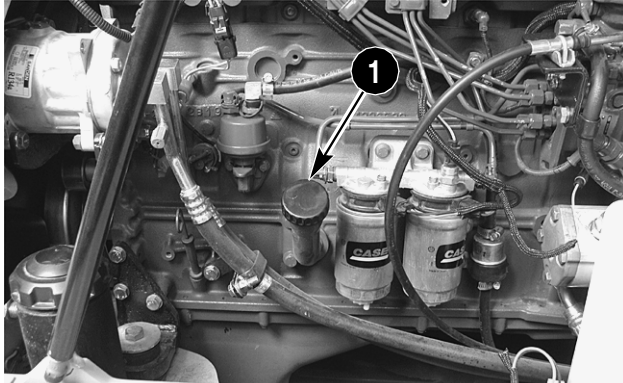
Axles: Front and Rear

Front Axle Capacity22 liters (23.2 U.S. Quarts)
Rear Axle Capacity23.2 liters (24.5 U.S. Quarts)
Specifications..... Case AKCELA MS1317 Transaxle Fluid (SAE 80W-140)
Grease Fittings
Quantity.....As Required
Specifications..... Case AKCELA Molydisulfide Grease

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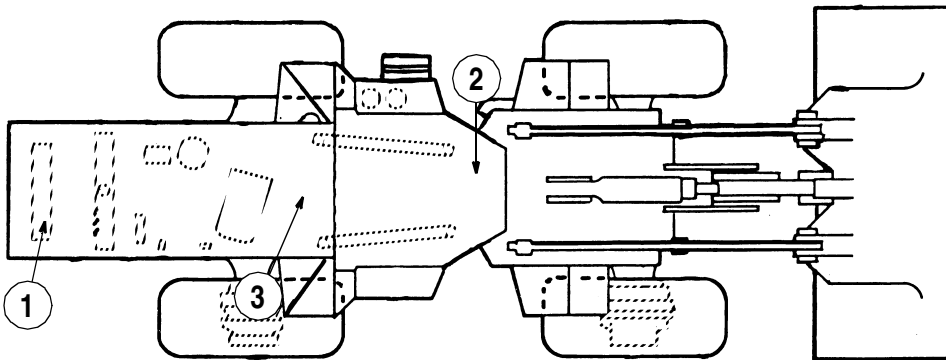
FLUID LEVELS

10 Hours



1. ENGINE OIL CASE AKCELA NO. 1 ENGINE OIL (SAE 15W-40)

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RD98K315

2. RADIATOR COOLANT LEVEL
ETHYLENE GLYCOL AND WATER

165

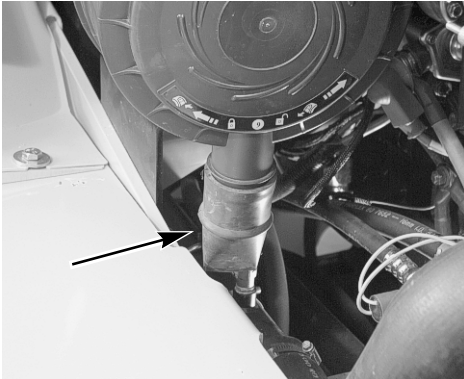
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Dust Valve

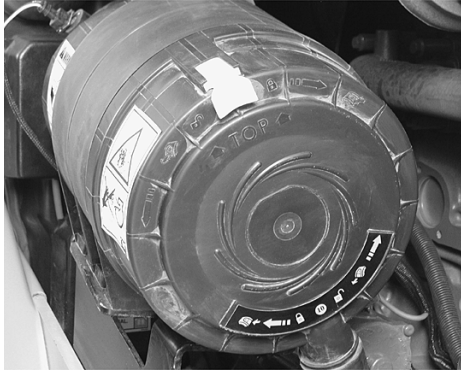
Check the dust valve. Make sure there is no obstruction inside the valve.



BD00M008

Primary (Outer) Element

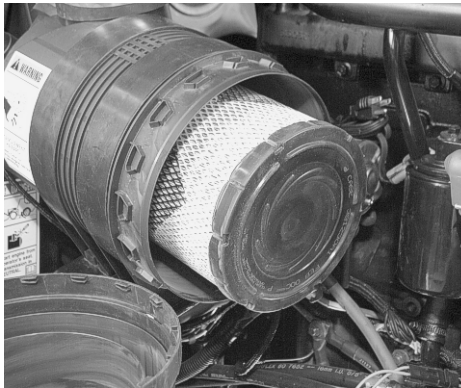
1. Open the hood and pull the yellow lock tab out.



BD02N052

2. Rotate the end cap counterclockwise to unlock.

NOTE: *If there is a large amount of dust inside the end cover, check dust valve for proper operation*



BD00M011

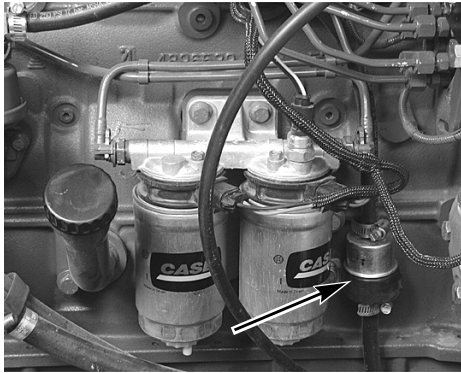
3. Carefully remove the primary (outer) element.

TRIM THIS EDGE

In-Line Fuel Filter

Replace the in-line fuel filter every 500 hours. To replace the filter do the following:

1. Loosen the nut or hose clamp (as equipped) at each end of the filter. Remove the filter from the fuel line.
2. Install a new filter. Make sure the arrow on the filter points toward the primer pump.
3. Use the primer pump to prime the system. Check for leakage.
4. Start the engine and check again for leakage.
5. See Removing Water and/or Sediment on Page 183.

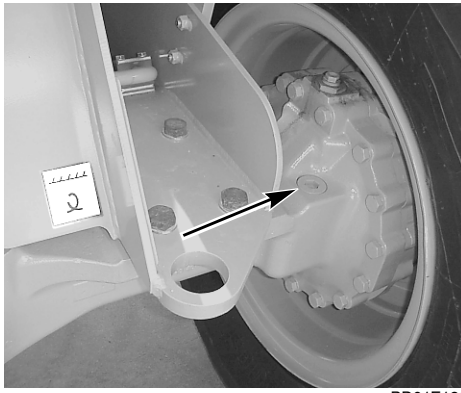


BD02N044

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Axle Planetary and Center Bowl

1. Park the machine on a level surface. Apply the parking brake and stop the engine.
2. Remove the axle dipstick and clean area thoroughly. Check the level.



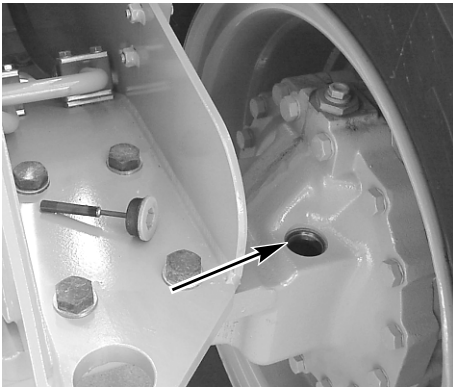
BD01E126

IMPORTANT: Axle level must be checked by placing dipstick level in hole but not threading down.



BD01E126

1. OIL LEVEL CHECK.



BD01E134

2. ADD OIL AS REQUIRED.

TRIM THIS EDGE

Clutch Calibration Main Codes

CLUTCH CALIBRATION MAIN CODE	MEANING
00	Clutch Calibration Mode was not initiated because one of the requirements was not met.
01	Adjusting 1st gear
02	Adjusting 2nd gear
03	Adjusting 3rd gear
04	Adjusting 4th gear
05	Adjusting Forward gear
06	Adjusting Reverse gear
07	Clutch Calibration Completed
08	Operator aborted calibration procedure.
09	Aborted while adjusting 1st gear
10	Aborted while adjusting 2nd gear
11	Aborted while adjusting 3rd gear
12	Aborted while adjusting 4th gear
13	Aborted while adjusting Forward gear
14	Aborted while adjusting Reverse gear

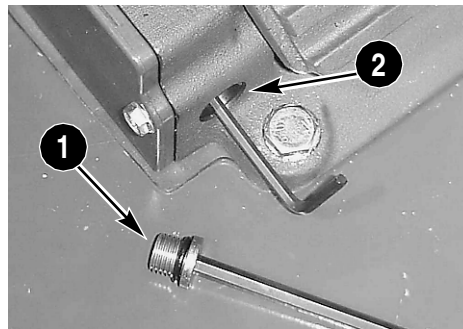
Clutch Calibration Sub-Codes

CLUTCH CALIBRATION SUB-CODE	MEANING
00	Calibration in process
01	Fault present
02	Shift lever not in neutral
03	Park brake not applied
04	Output speed not 0 kph/mph
05	Low transmission oil temperature
06	High transmission oil temperature
07	Low engine RPM
08	High engine RPM

DECLUTCH ADJUSTMENT

1. Park the machine on a level surface.
2. Lower the loader bucket to the floor.
3. Apply the parking brake and stop the engine.

NOTE: The following photo shows the brake pedal/valve assembly removed for clarity. Do not remove the brake pedal/valve assembly from the machine.



1. PLUG
2. ADJUSTMENT SCREW
3. REMOVE THE PLUG (1) FROM THE BASE OF THE LEFT HAND BRAKE PEDAL/ VALVE ASSEMBLY.

TRIM THIS EDGE

BUCKET HEIGHT CONTROL MINOR ADJUSTMENT

1. Park the machine on a level surface. Lower the loader bucket to the floor.
2. Apply the parking brake and stop the engine.
3. Loosen the rear actuator.
4. To increase the dump height, move the actuator down in the slot. To decrease the dump height, move the actuator up.
5. Tighten the actuator.
6. Start the engine and pull the lift control lever to the RAISE detent position. When the loader arms stop moving, check the dump height.

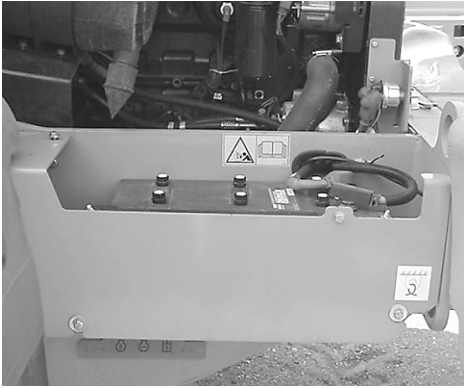
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IMPORTANT: Machine must be Jump Started from the **LEFT** side only!

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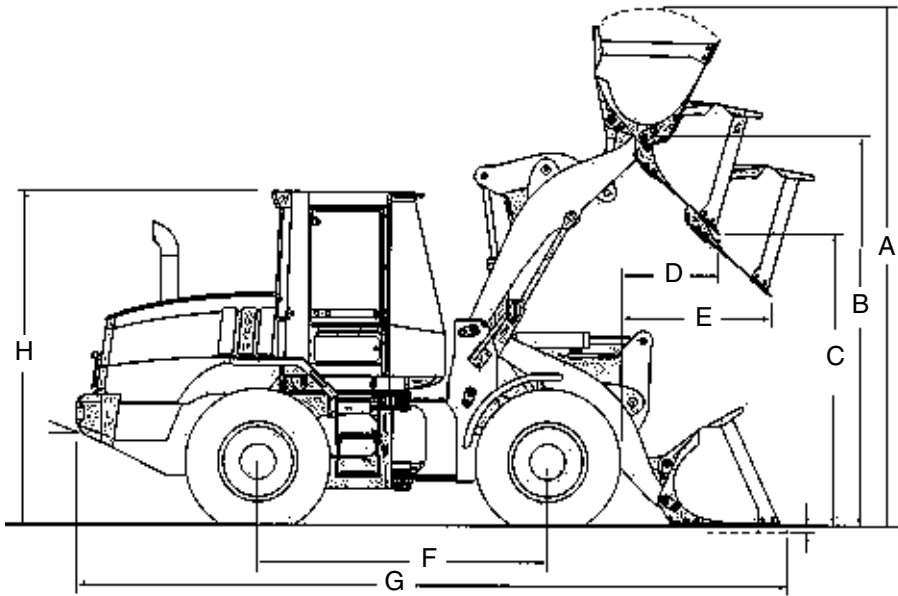
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OPERATING DATA AND DIMENSIONS



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**Machines with 2.10 m³ (2.75 yd³)
General Purpose Bucket W/Bolt-On Edge**

- Tipping load, machine straight 9 634 kg (21 239 lbs)
- Tipping load, 40 degree turn 8 089 kg (17 833 lbs)
- A. Overall operating height, fully raised 4 953 mm (195.0 in)
- B. Height to bucket hinge pin, fully raised 3 829 mm (150.7 in)
- C. Dump height, 45 degree dump, full height 2 782 mm (109.4 in)
- Dump angle at full height 50 degree
- D. Bucket reach, 45 degree dump, full height 880 mm (34.6 in)
- E. Bucket reach, 45 degree dump,
 2134 mm (7 foot) dump height 1 371 mm (54.0 in)
- F. Wheel Base 2 900 mm (114.2 in)
- G. Overall Length 6 974 mm (274.6 in)
- H. Overall height to top of ROPS cab..... 3 259 mm (128.3 in)

Specifications taken with 20.5 R25 XTLA tires, ROPS cab with heater and air conditioning, 1 451 kg (3 200 lb) rear counterweight, fenders, standard batteries, lamps, full fuel tank, and a 80 kg (175 lb) operator. Specifications per SAE J732, J1234, J695, J742 and J818.

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