

**Excavator  
888P4A**

**Operators Manual**

Lep 9-16741 GB

**CASE**

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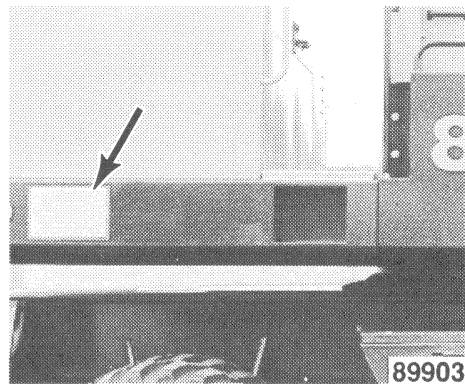
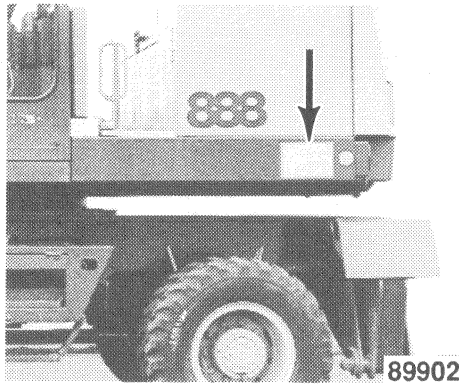
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## DECALS

**IMPORTANT:** Fit new decals if the old decals are destroyed, lost, painted over or illegible. When parts fitted with decals are replaced, make sure you fit a new decal to each new part.

**NOTE:** New decals are available from your dealer. Part numbers are shown at the bottom of the decal.

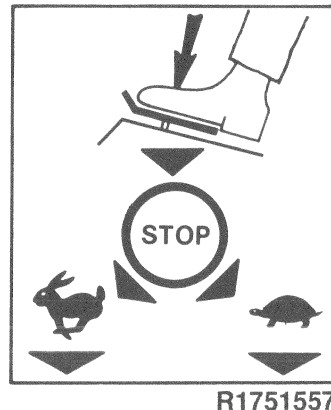
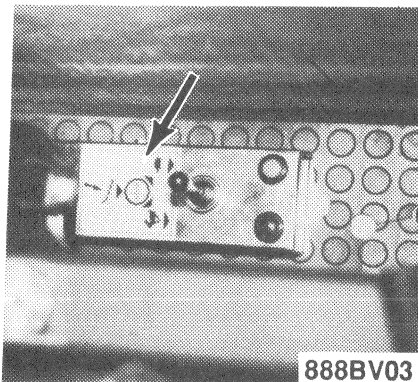


The "Keep clear" decals are located on the right and left-hand sides of the machine.

Code number of decal depending on country:

France.....	K1451562	Sweden.....	D1451556
Germany.....	J1451561	Italy.....	G1451559
Great Britain.....	H1451560	Holland.....	E1451557
Spain.....	F1451558	Finland.....	C1451555
Switzerland.....	J1451561	Portugal.....	H1451560
Austria.....	J1451561		

## Speed Range Selection



**SPECIFICATIONS**

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**TURNTABLE**

Welded frame.  
Modular structures.  
Transverse walkway for access to components.  
Soundproofed cowling with lock, meets all current regulations.  
Tool compartment with tool kit.

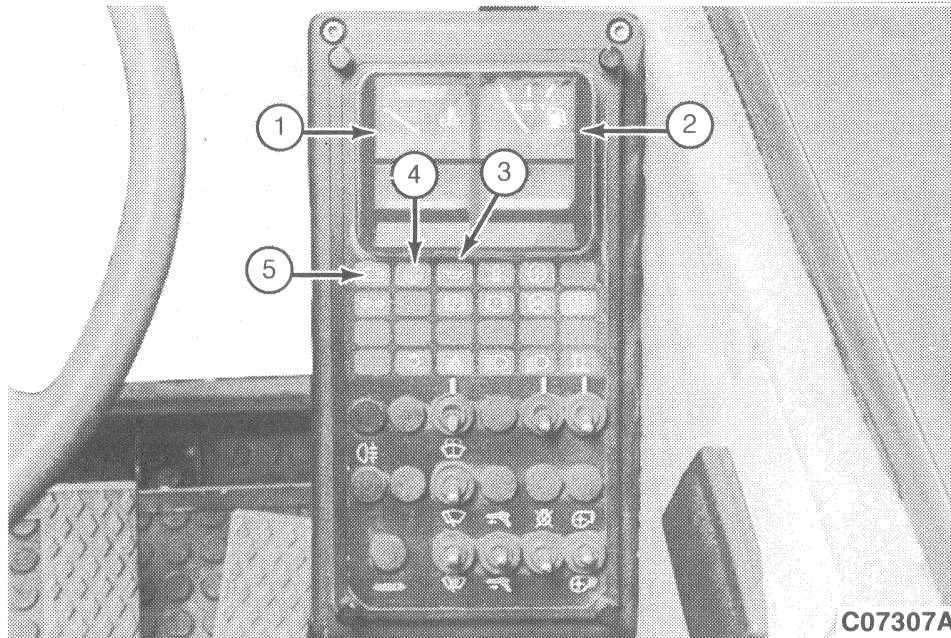
Swing hydraulic motor-driven reduction gear with automatic static brake  
Turntable swing speed.....7,6 rpm  
Swing gear.....Alternate rollers and internal teeth  
Lubrication of swing ring gear and teeth.....Consolidated

**CAB**

Complies with FOPS protection standard.  
Removable, soundproofed, installed on flexible mounts.  
Up-and-over windshield - Tinted glass.  
Cab protection and raising.....Optional

**OPERATION**

Seat with adjustable arm-rests.  
Hydraulically-assisted controls.  
Attachment and swing.....2 levers  
Hydraulic power-assisted steering.....Orbitrol system  
Two-speed windshield wiper, windshield washer, defrosting, two-speed ventilation,  
dome light, cigarette-lighter, sun visor.  
Engine water heating  
Total air flow rate.....Recycling closed 423 m<sup>3</sup>/h  
Recycling open 467 m<sup>3</sup>/h  
Heat capacity.....Air 0°C - water 80°C: 7,36 KWatt  
air 0°C - water 60°C: 5,52 KWatt  
Electric power.....170 Watt  
Air conditioning.....Optional

**CONTROL PANEL**

1. **ENGINE TEMPERATURE GAUGE** - This gauge indicates the engine temperature. If the gauge pointer enters the red zone of the gauge, stop the engine immediately and look for the problem.

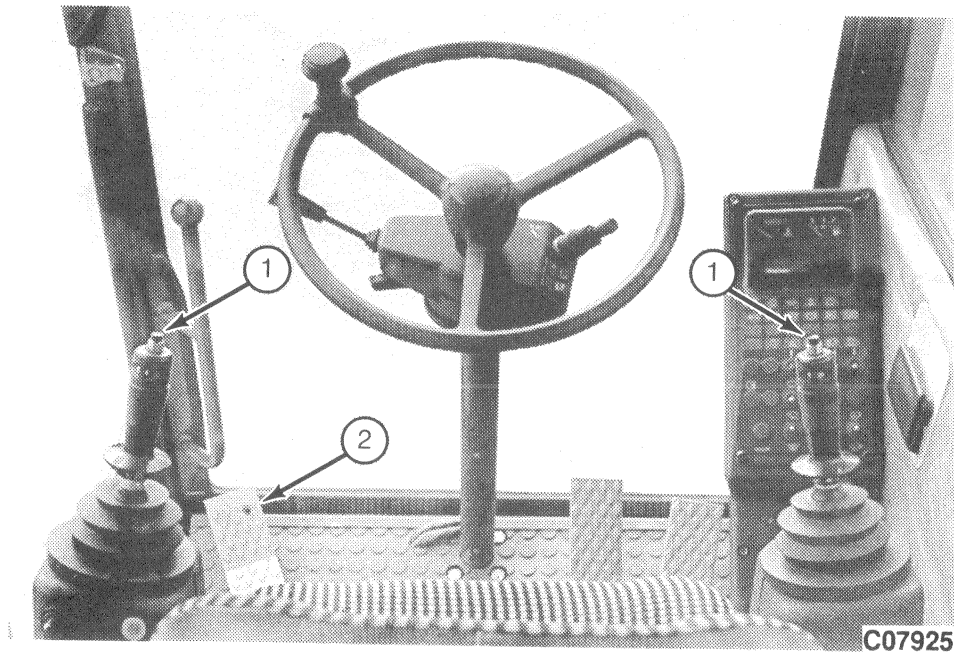
2. **FUEL GAUGE** - This gauge indicates the level of fuel in the fuel tank.

3. **ENGINE OIL PRESSURE WARNING LAMP** - This lamp will light when the key switch is in the ON position and the engine is not running, or when the engine oil pressure is low. If the lamp lights during operation, stop the engine immediately and look for the problem.

4. **AIR CLEANER RESTRICTION WARNING LAMP** - This lamp will light when the air cleaner filter elements require cleaning or replacement.

5. **BATTERY CHARGE WARNING LAMP** - This lamp lights when the key switch is in the ON position and the engine is not running or when the engine is running and the alternator is not charging the batteries. If the lamp lights when the engine is running, stop the engine immediately and look for the problem.

## Attachment and Swing Control Levers Selection Pedal

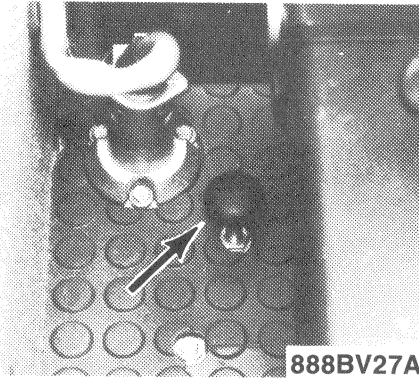


***Before you start the engine, make sure you know the location and function of each control. Wrong operation of the controls can cause injury or death.***

1. ATTACHMENT AND SWING CONTROL LEVERS - See section "Operating instructions". The speed of the movement depends on the tilting angle of the lever. When the lever is in a half way position, two functions are obtained at the same time.
2. CLAMSHELL SWING PEDAL (optional) - See section "Operating instructions".

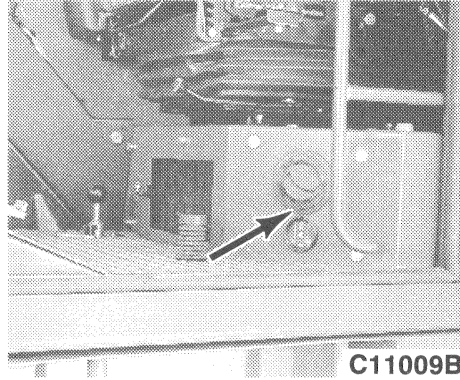
## HEATING SYSTEM

### Heater Control Knob



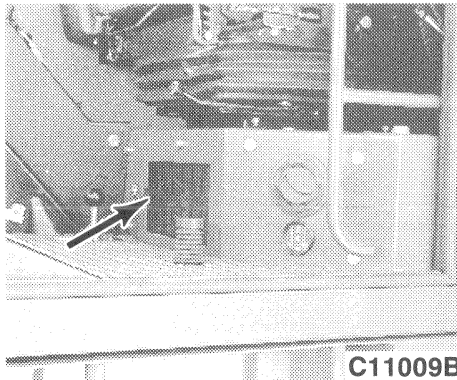
The control enables the heater feed shut-off to be gradually opened and closed. To adjust, move the control vertically.

### Recirculation Inlet



Tilt inlet flaps to adjust suction. Turn the inlet to set suction direction.

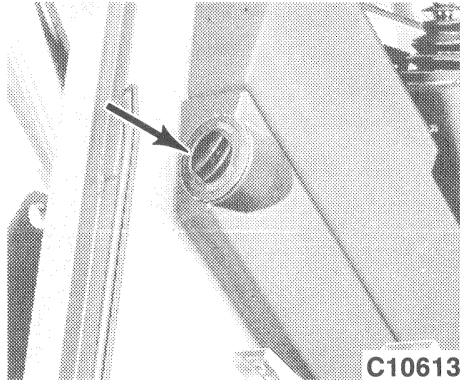
### Air Distributor



Use the handle to adjust the flow rate. The handle can be moved horizontally (gradually).

**NOTE:** Hot or cold air is supplied, as determined by the heating control position.

### Windshield Defrosting Air Distributor



Tilt distributor flaps to adjust the flow rate. Turn the distributor to set flow direction.

**NOTE:** Hot or cold air is supplied, as determined by the heating control position.

## STARTING ENGINE IN COLD WEATHER

Use the normal starting procedure, then allow the engine to run for approximately five minutes without operating the excavator.

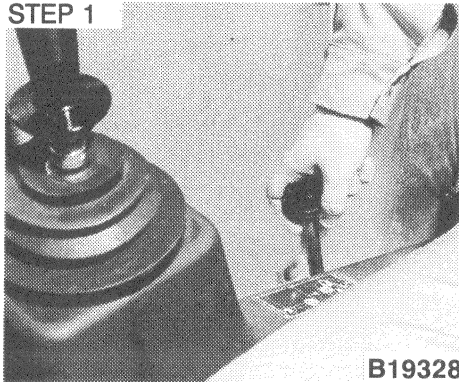
If the engine stalls with full load:

1. Fit the turntable lock pin.
2. Operate the swing control to increase the hydraulic oil temperature.

### Starting by Pre-Heating the Engine (Optional)

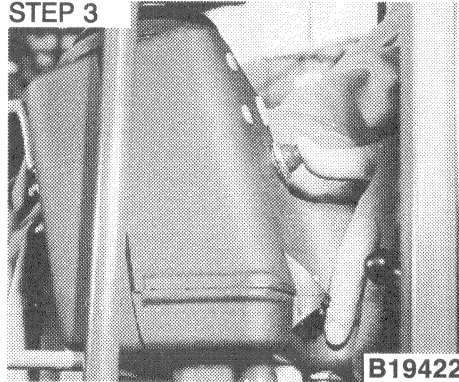
This system is used when the ambient temperature is below 24°F (−5°C).

STEP 1



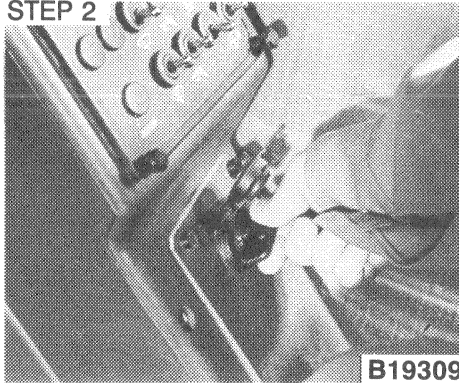
Move the hand throttle to 3/4 open position.

STEP 3



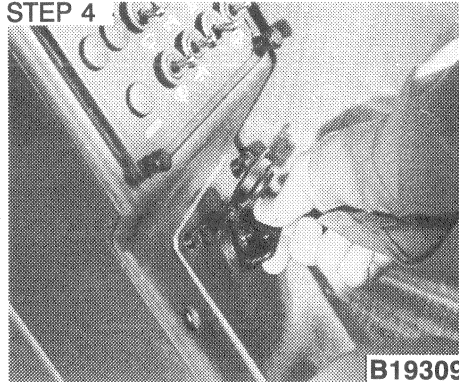
Press the push button located on the left-hand control lever for about 10 seconds, and then release.

STEP 2



Turn the starter key switch to the ON position.

STEP 4



Start the engine using the starter key switch.

**NOTE:** If the engine fails to start, repeat the procedure, pressing the push button whilst starting the engine.

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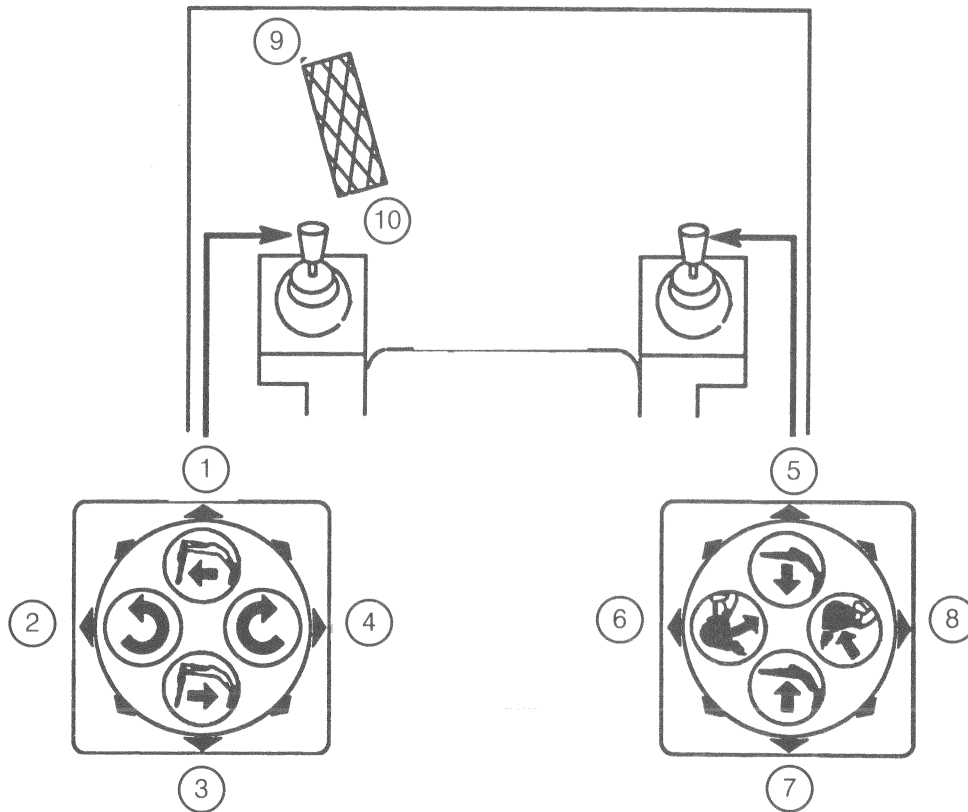
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## CONTROL FUNCTION ATTACHMENT - SWING - OPTION



**Make sure you know the location and function of each control. Wrong operation of the controls can cause injury or death.**



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### LEFT CONTROL LEVER

1. The dipper extends.
2. The turntable turns to the left.
3. The dipper retracts.
4. The turntable turns to the right.

### LEFT PEDAL

5. The boom lowers.
6. The tool closes.
7. The boom raises.
8. The tool opens.
9. The clamshell turns to the right.
10. The clamshell turns to the left.

### RIGHT CONTROL LEVER

5. The boom lowers.
6. The tool closes.
7. The boom raises.
8. The tool opens.

## OPERATING INSTRUCTIONS

### TOWING

**IMPORTANT:** *Towing is a delicate operation carried out at the user's risk. Guarantee does not apply to breakdowns and accidents which may occur when towing.*

The excavator should be towed very slowly and only if it is really necessary.

**IMPORTANT:** *Towing is only allowed over a short distance.*

**NOTE:** *Before commencing towing operations, install the stabilizer locking pins.*

In order to tow the machine it is necessary to disengage the front axle universal joint and the rear axle universal joint.

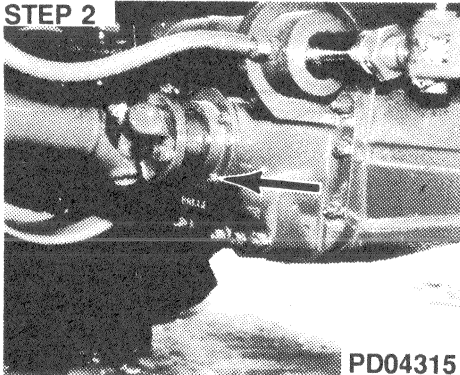
#### Disassembling

##### STEP 1

Before disassembling the parts, place marks on both.

**NOTE:** *The marks will make re-assembly easier.*

##### STEP 2



Remove the 4 screws from the front axle.

##### STEP 3

Support the universal joint with a sling from the chassis.

##### STEP 4

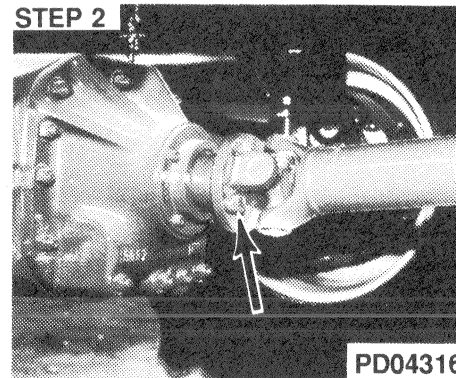
Repeat steps 1 to 3 for the rear axle.

#### Mounting

##### STEP 1

Remove the sling from the universal joint and align the marks made on each part.

##### STEP 2



Install the four screws on the rear axle.

Torque to 72 lb/ft (10m daN).

##### STEP 3

Repeat steps 1 and 2 for the front axle.

**LUBRICATION/MAINTENANCE CHART**

P A G E	SERVICE POINTS	N O O F P O I N T S	HOURLY INTERVALS				
			C L E A N	R E P L A C E	C H E C K	G R E A S S	D R A I N
119	Air Filter (note 3)	1					
138	Axle Locking Cylinders (note 6)	2					
148	Battery Electrolyte Level (note 5)	2					
129	Hydraulic Reservoir Filters (note 4)	1					
119	Primary Air Filter Element (note 1)	1					
119	Secondary Air Filter Element (note 2)	1					

NOTE 1: Replace once annually or after six cleanings.

NOTE 2: Replace once annually or after three cleanings of the primary element.

NOTE 3: Clean when the warning lamp lights up on the dashboard.

NOTE 4: Replace when the warning lamp lights up on the dashboard.

NOTE 5: Check the level once annually.

NOTE 6: Bleed the cylinders in the event of a problem with the front axle.

## LUBRICATION/FILTERS/FLUIDS

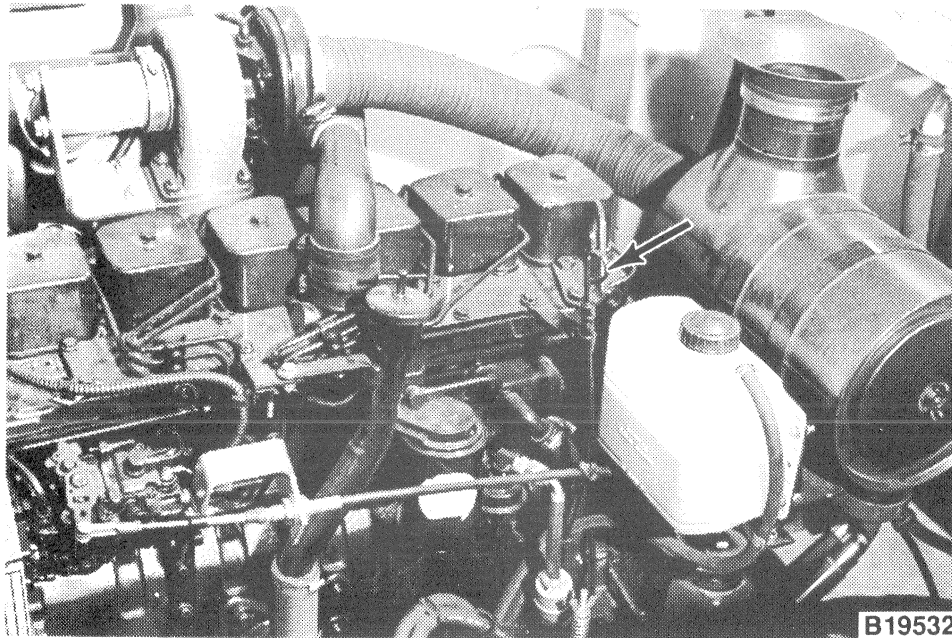
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### Service Specifications

Oil level check interval.....	Daily
Oil change interval.....	Every 250 hours of operation
Oil type.....	See engine oil
Oil capacity - Without filter change.....	3.80 gallons (14.4 litres)
With filter change.....	4.06 gallons (15.4 litres)

### Level

To check the engine oil level, put the machine on flat level ground and stop the engine. Remove the dipstick, wipe dry, re- insert the dipstick in the guide tube as far as it will go, then remove it again. If the oil level is below the ADD mark, add oil to the FULL mark. Do not fill beyond the FULL mark.

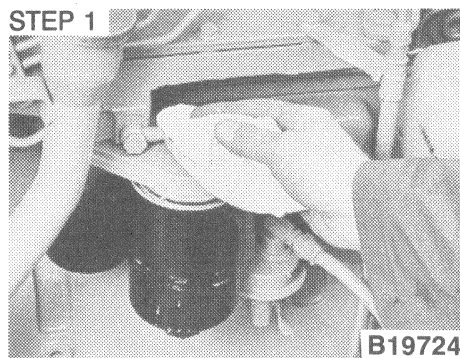


## FUEL SYSTEM

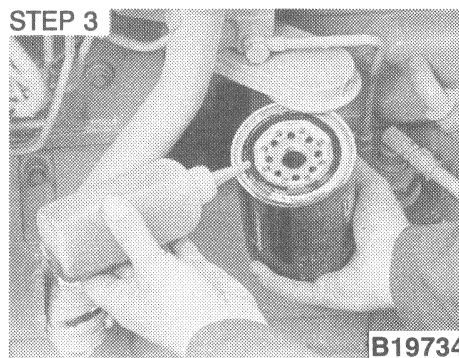
### Fuel System Service Intervals

Water separator filter drainage .....	Every 10 hours or if there is a loss of engine power
Filter replacement .....	Every 500 hours or if loss of power
Fuel tank drainage .....	Drain every 10 hours or daily
Fuel tank capacity .....	54 gallons (247 litres)

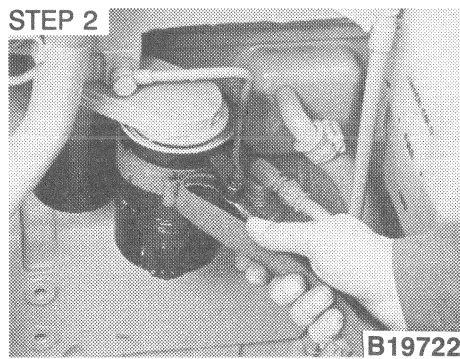
### Fuel Filter Replacement



Clean the filter heads, filters and engine surfaces around the filters.

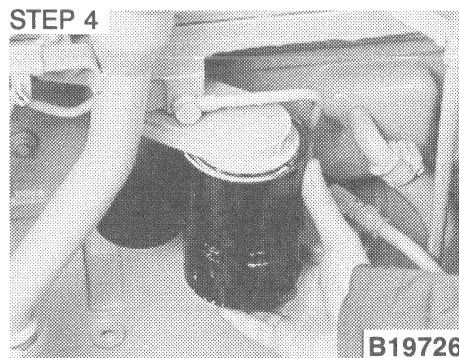


Apply clean oil or grease to the gasket on the new filters.



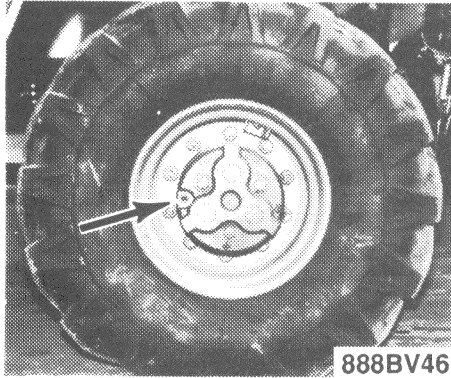
Turn each filter counterclockwise to remove. Use a strap wrench if required.

**NOTE:** Do not fill the new filters with fuel before installation.



Fit the filters. Turn the filters until the gasket is in contact with the filter heads. Tighten the filter an additional half turn by hand.

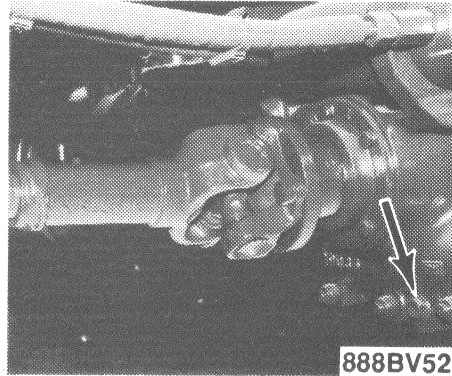
2. Lower the stabilizers to raise the wheels off the ground, then lower the attachment to the ground.
3. Leave the parking brake lever in the OFF position.
4. Stop the engine.



5. Move a wheel by hand until the hole is in the 3 or 9 o'clock position.
6. Remove the plug.
7. Fill up through the hole, until the oil is level with the lower edge of the hole.
8. Add oil if necessary.
9. Repeat operations 5 to 8 for the other reducers.

## Front Axle Oil Change

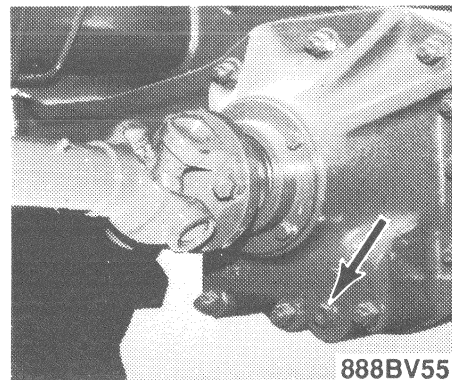
1. Stop the machine on level, horizontal ground.



2. Remove the fill and drain plugs and let the oil drain out.
3. Install the drain plug.
4. Fill up through the fill hole until the oil is level with the lower edge of the hole.
5. Install the fill plug.

## Rear Axle Oil Change

1. Put the machine on flat, horizontal ground.

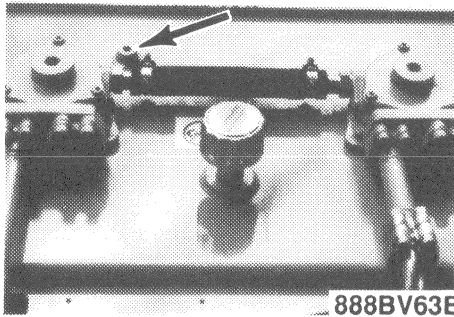


## HYDRAULIC RESERVOIR SHUTOFF VALVE

The hydraulic oil reservoir is equipped with a manually controlled shutoff valve.

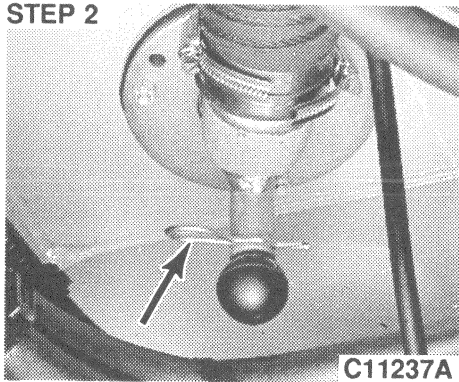
This valve must be closed when servicing the hydraulic system.

### STEP 1



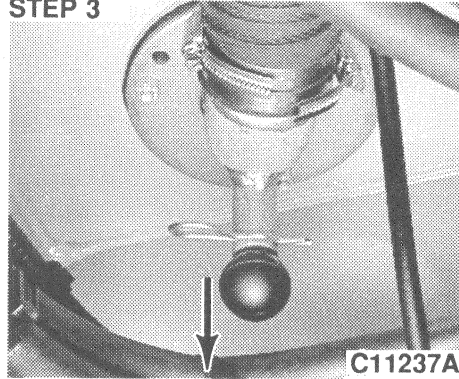
Loosen the bleed screw two or three turns to release pressure from the hydraulic reservoir.

### STEP 2



Remove the keeper pin from the valve.

### STEP 3



Pull the shutoff valve control down and install the keeper pin.

To open the shutoff valve, remove the keeper pin.

Push the shutoff valve fully up and install the keeper pin.

Tighten up the bleed screw on the hydraulic reservoir.

**NOTE:** *If the shutoff valve has been closed to do a servicing, make sure the shutoff valve is open before starting the engine.*

## ELECTRICAL SYSTEM

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### Fuses

**IMPORTANT:** Before replacing the fuses in this machine, turn the battery master switch to the OFF position.

F1	Starter, pre-heating element.....	30 amps
F2	Starting device.....	5 amps
F3	Charging warning lamp, air filter restriction, hydraulic oil filter restriction, pilot pressure engine temperature, fuel level, engine oil pressure, hourmeter, warning lamp check.....	5 amps
F4	Motor compartment lighting, dome lamp, horn control (manipulator).....	5 amps
F5	Working lamp control and indicator lamp, rotary lamp.....	8 amps
F6	Upperstructure head lamps, attachment head lamps, cab rear lamp.....	16 amps
F7	Horn.....	10 amps
F8	Upperstructure power line connection.....	16 amps
F9	Windshield washer, windshield wiper.....	5 amps
F10	Heater fan.....	10 amps
F11	Cigarette lighter.....	8 amps
F12	Engine stop, left hand lever safeguard, stabilizer control, front axle locking control front axle automatic control.....	8 amps
F13	Load holding safety.....	5 amps
F14	Radio.....	5 amps
F15	Stop control, lighting and horn controls.....	16 amps
F16	Right-hand rear stop lamp.....	5 amps
F17	Left-hand rear stop lamp.....	5 amps
F18	Dipper lamp, right-hand side lamp.....	5 amps
F19	Dashboard lighting, side lamp indicator lamps, left-hand side lamps, registration plate lamp.....	5 amps
F20	Right-hand dipped head lamp.....	5 amps
F21	Left-hand dipped head lamp, fog lamp control and indicator lamp.....	5 amps
F22	Rear fog lamp.....	5 amps
F23	Right-hand head lamp.....	5 amps
F24	Left-hand head lamp, head lamp indicator lamp.....	5 amps
F25	Back-up lamp, minimum braking pressure, parking brake control hand pressure, steering distributor pressure.....	5 amps
F26	Turn signal lamps, hazard signal lamp.....	8 amps
	Overload indicator fuse (in control panel).....	5 amps

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