1710D Forwarder
Serial Number
WJ1710D000481-

OPERATOR'S MANUAL
1710D Forwarder

OMF065857 23SEP03 (ENGLISH)

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Worldwide Construction And Forestry Division
Published in Finland

Warranty

Standard warranty clauses

The machine is covered by John Deere's guarantee in compliance with the standard warranty clauses accepted by the John Deere group.

The manufacturer will not assume responsibility for the machines delivered should the following conditions be violated:

- The forwarder is exclusively operated and maintained by experienced personnel who have been trained by John Deere or by a dealer authorized by John Deere.
- The forwarder must be operated and maintained in accordance with the instructions provided in this manual.
- Only fuels and lubricants specified in this manual are used.
- Only genuine spare parts are used

EL62757,000015D –19–19APR02–1/1

250 Hour Service

The forwarder was checked and test driven before delivery, and it can be put to use immediately. However, to ensure good reliability it is very important to thoroughly service the machine once it has been put to use.

The warranty given by John Deere will be valid provided that the machine is handed over for after sales maintenance after appr. 250 running hours, the service shop being one authorized by John Deere.

EL62757,000015E –19–19APR02–1/1

Handle Starting Fluid Safely

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.

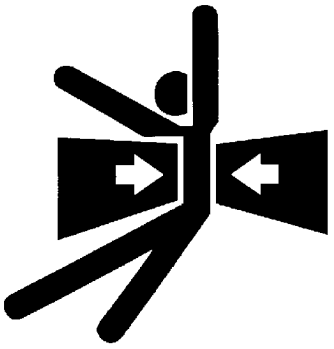
TS1356 –UN–18MAR92

OUTJ003,000068F –19–14MAY01–1/1

Securing the Service Position

Before dismantling parts subjected to load, hydraulic cylinders, stays, wheels, etc., they must be supported and relieved so as to eliminate the risk of injury.

Having raised the cab to its full height, always lock the safety support in place. Do not use any middle position. Make sure that nobody comes close to the cab when raising or lowering it.



T139371 –UN–06JUN01

CAUTION: When lowering cab, its lowering speed may accelerate when the cab is appr. 5 centimeters from the fastening studs. Make sure that nobody comes too close to the cab when lowering it.

CAUTION: The use of engine hoods and belly pans may have been facilitated by means of lift supports. Should these supports become defective, the cover may unexpectedly come down. Do not go under these parts when lifting/lowering them or before they are properly secured in the uppermost position.

Before disconnecting any load-bearing parts, secure the vertical hinge of the machine.

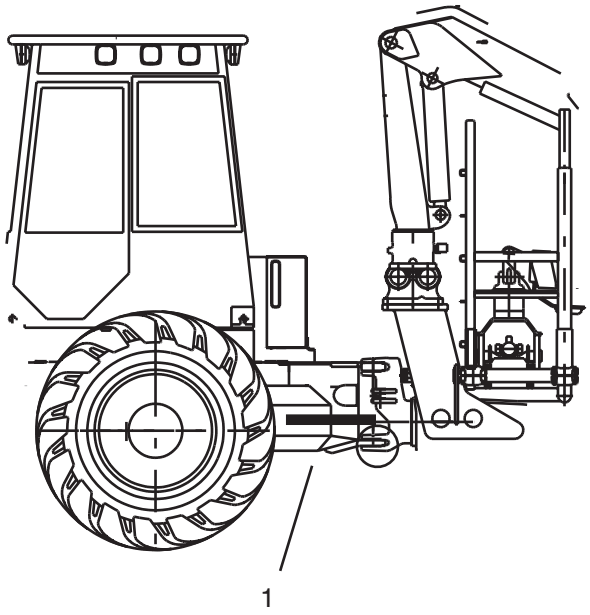
Likewise, also secure the horizontal hinge, if necessary, as applicable under the circumstances.

If the machine breaks down in difficult terrain, and cannot be moved prior to being repaired, take extra care to fully immobilize the machine and all rotating or moving parts.

Install the frame lock (1) to prevent accidental articulation of the machine.

Read the manual carefully and follow the maintenance procedures provided.

NOTE: The operator and serviceman are responsible for safety on and around the machine.

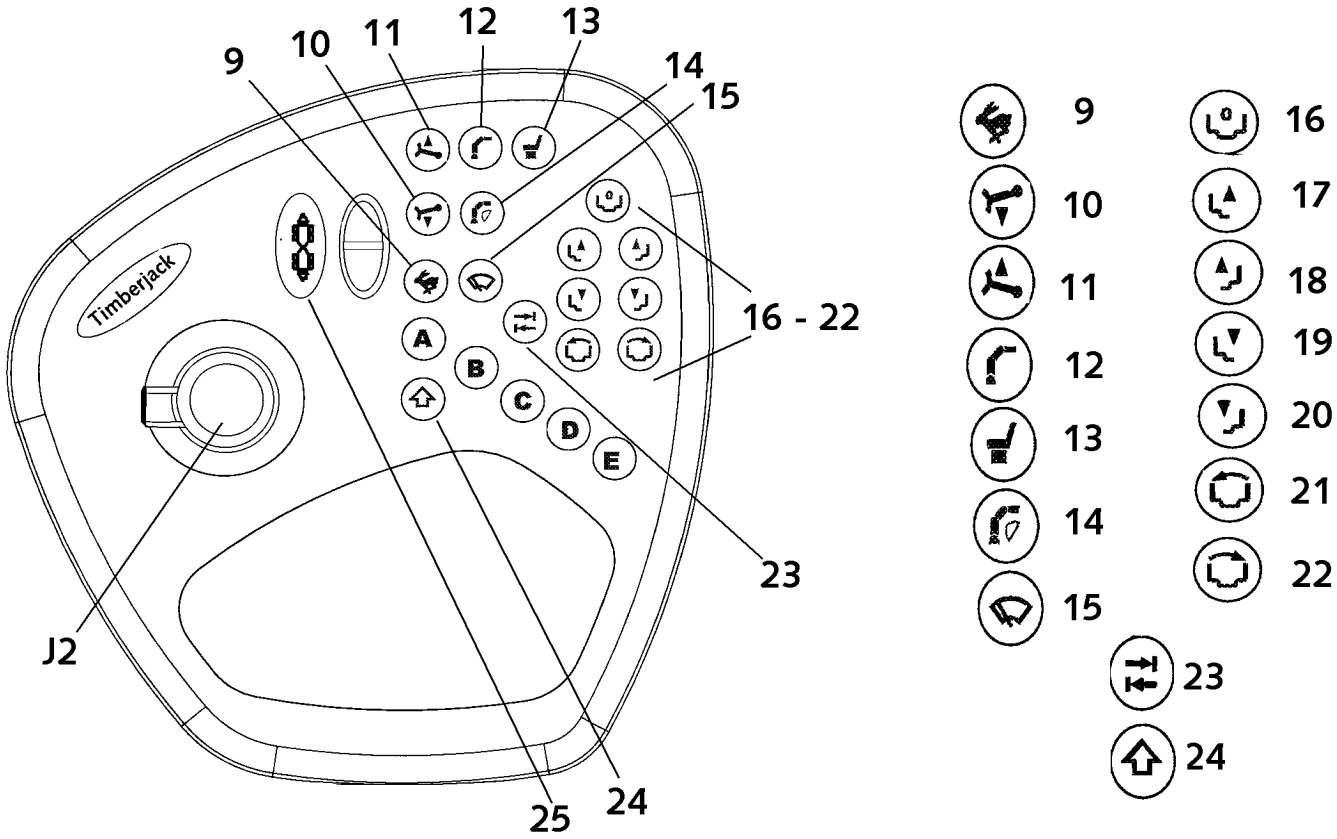


T152685 –UN–19MAR02

1—Frame lock

EL62757,000016A –19–19APR02–1/1

Right Arm Control Panel



			In ALS and PC use:
J2	Boom control lever, right	16	Reset of load space
9	High / low gear	17	Stake up, right side
10	Decking blade down	18	Stage up, left side
11	Decking blade up	19	Stake down, right side
12	Boom functions ON/OFF	20	Stage down, left side
13	Seat locking / release	21	Load space tilt to the left
14	Jib boom lights	22	Load space tilt to the right
15	Windscreen wiper	23	PC button TAB
25	Driving direction switch	24	PC button SHIFT
Multifunction buttons for TMC use (see TMC manual)			

EL62757,0000172 –19–19APR02–1/1

Operating the Boom

The boom can be operated if:

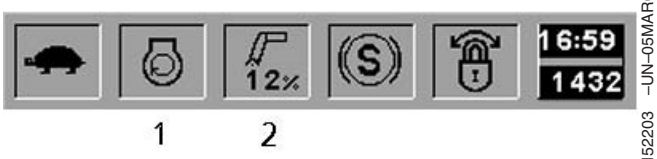
1. The operator sits on the seat.
2. The parking brake has been released
3. The boom has been engaged.

If these conditions have been met, the boom is automatically engaged when the seat is turned to face the rear of the machine.

If the seat faces the front of the machine, the boom can be activated if necessary by means of the boom switch in the right-hand-side control panel.

The boom can always be used when the TMC-display shows the boom symbol. It is also possible to move the machine while operating the boom.

For instructions for safe and efficient boom operation see Section 10..



T152203 –UN–05MAR02

1—Machine rpms
2—Boom symbol

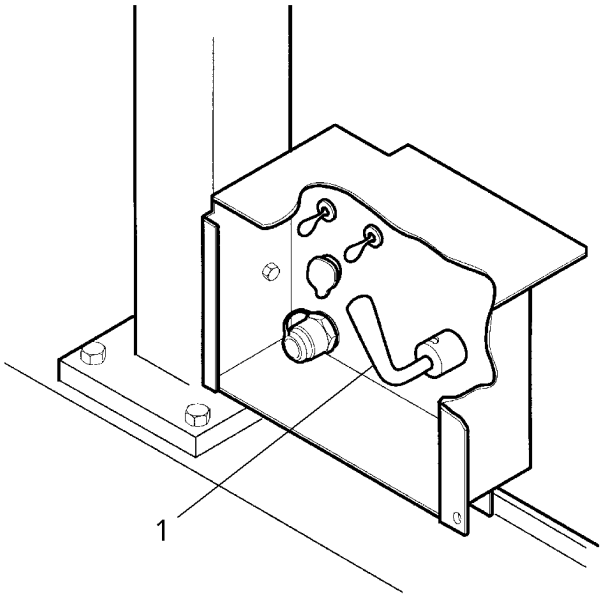
EL62757,000017E –19–21APR02–1/1

Starting and Turning Off the Engine

Before Starting the Engine for the First Time in a Working Day

- ❒ Take an overall look at the machine (joints, hoses, etc.
  - Check the engine oil level.
  - Check the coolant level.
  - Check the hydraulic oil level.
- ❒ Turn on the main switch (the switch is located on the left-hand side, under the cab).
- ❒ Check the fire extinguishing system. See separate instructions by the manufacturer (optional equipment).
- ❒ Check the fuel level.
- ❒ Remove the lock pin of the emergency exit.

1—Main switch



T152211 –UN–05MAR02

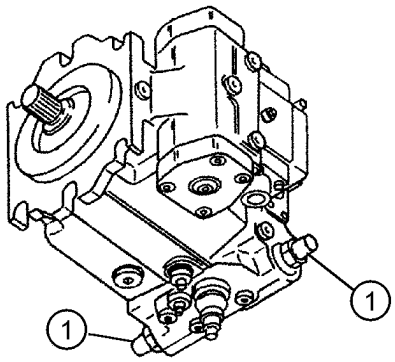
EL62757,000018D –19–21APR02–1/1

How to Disengage the Power Transmission System (bypass function)

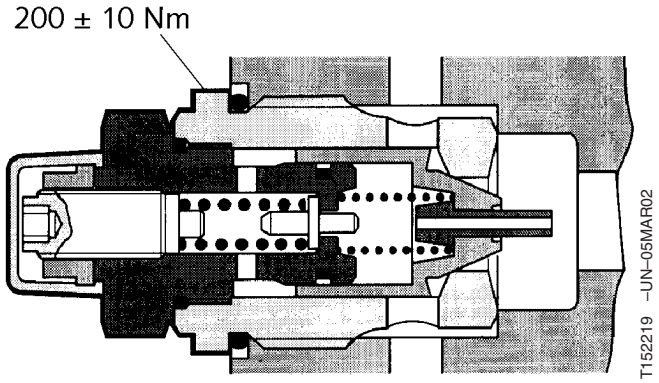
- Lift up the cabin
- Turn the screw of shock pressure valves (1)) of the drive pump to such an extent that the valve cartridge is released and free oil circulation is possible.

NOTE: When towing short distances (< 20 m /65 ft)), release the power transmission system. Otherwise release the drive shafts.

Once towing is over the valves need to be closed again. Torque to 200 ± 10 Nm (148 ± 7,4 lb-ft)



Drive pump, Drive pressure relief valves

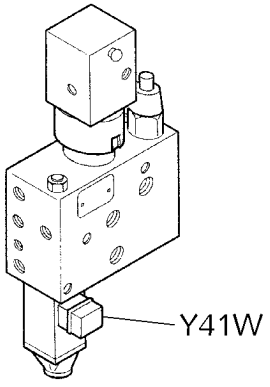


EL62757,0000194 –19–21APR02–3/5

How to Release the Work Brake

- Lift up the cabin.
- Disconnect the solenoid valve Y41W coupler of the work brake

NOTE: Re-connect the connector after towing



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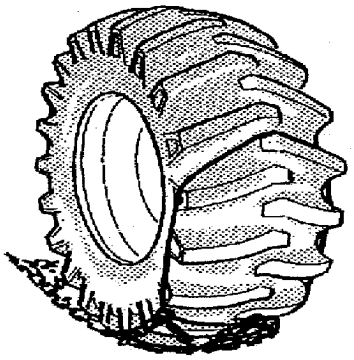
EL62757,0000194 –19–21APR02–4/5

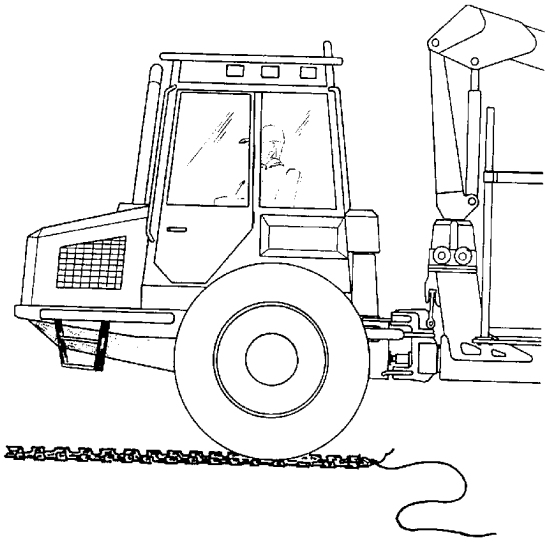
Anti slips

Choose fairly smooth ground when fitting the anti-slip.

- Ensure that the anti-slips are in good condition.
- Turn them the right way.
- Lay the anti-slip out in front of the wheel, see fig
- Tie a 1.5 metre (5 ft) long piece of rope, or something similar, to the anti-slip and place it over the tire as illustrated
- Carefully move the machine. If needed stop the machine and adjust the anti-slip. Continue until the ends of the anti-slip lie near each other, and connect the ends together with the coupling links.



T152224 –UN–02MAY02



T152223 –UN–05MAR02

EL62757,000014C –19–18APR02–1/1

Cab lift pump

Capacity	Cab lift pump	0.8 l (0.2 gal)

Factory has filled the pump with Biohydr. 15 oil.

NOTE: Don't mix oils together.

If the pump is emptied, it can also be filled with ATF-oil.

EL62757,0000158 –19–18APR02–1/1

Grease

IMPORTANT: Contact John Deere service about availability of John Deere greases.

Apply lithium grease, some examples:

- Neste Yleisrasva EP 2
- Esso Beacon EP2
- Shell Retinax LX Lithium
- Mobilgrease
- Castrol LM Grease
- Texaco Molytex Grease EP 2

NOTE: Use enough grease!

NOTE: Don't mix different type of grease together.

EL62757,0000154 –19–18APR02–1/1

Check the tires for air pressure and overall shape.

Check tire pressures visually every day. If in doubt, use a pressure gauge to check the pressure. See section 6-0.

T152362 –UN–06MAR02

EL62757,00000FA –19–10APR02–1/1

Fill up the fuel tank

UUse only clean fuel to make sure that the diesel engine will not run erratically.

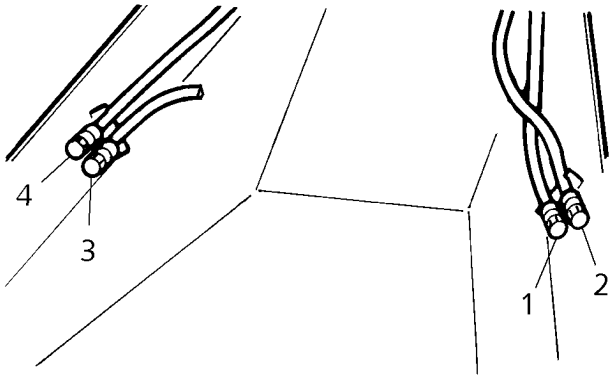
- If necessary, drain the dirt deposited in the fuel tank through the fuel tank drain hose (4).
- Fill up the tank every evening. This prevents condensation from accumulating in an empty tank.
- Clean the area around the top (1) before you open it for the fuel filling hose.
- Fuel can be added through the top (1) or through the quick coupler (2).

A fixedly mounted fuel fill-up pump (opt. eq.) is available as an extra equipment.

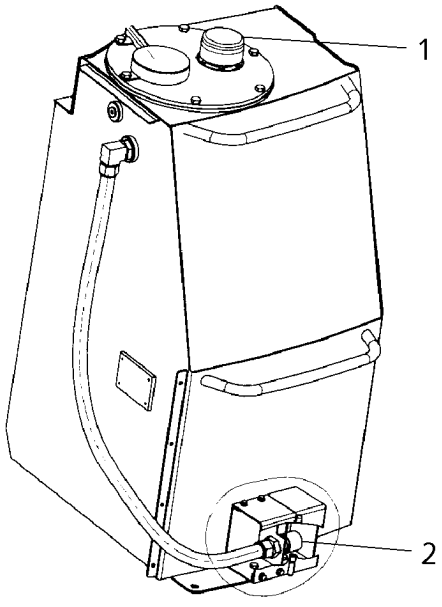
Automatic stop is engaged when the tank is full. After the stop a manual use is also possible. The pump stops when turning the switch in the opposite direction.

NOTE: TMC has to be ON as a pre-requisite for automatics.

1—Top
2—Quick coupler



T152229 –UN–05MAR02



T152235 –UN–05MAR02

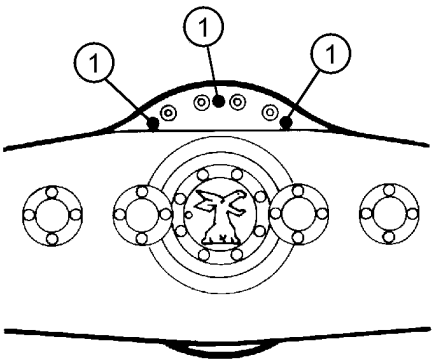
EL62757,00000FB –19–10APR02–1/1

Grease Bogie Bearings

Each bogie housing has ten grease fittings on each side of the housing which must be greased to properly lubricate the bogie bearings.

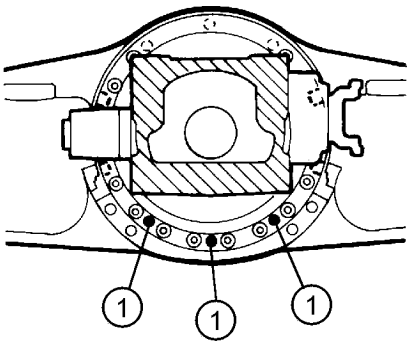
Cover the grease fittings with white plastic caps.

1—Grease Fittings



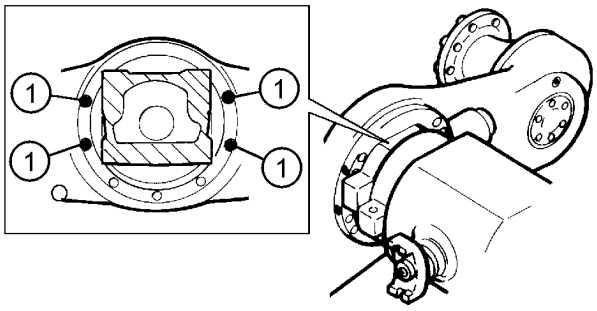
T142886 –UN–13JUN01

Bogie Housing Grease Points, 3 Upper Ports



T142887 –UN–13JUN01

Bogie Housing Grease Points, 3 Lower Ports



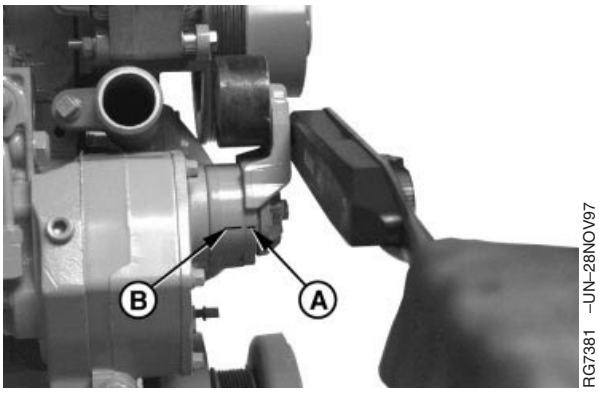
T142888 –UN–13JUN01

Bogie Housing Grease Points, 4 Side Ports

Continued on next page OUTJ003,00006AA –19–16MAY01–1/2

5. Rotate the swing arm using a torque wrench until marks (A and B) are aligned

6. Record torque wrench measurement and compare with specification below. Replace tensioner assembly as required



Checking Belt Tensioner Spring Tension

A—Mark
B—Mark

Item	Measurement	Specification
Specification Spring	Tension	24-28 N•m (17-21 lb-ft)

EL62757,000010F –19–10APR02–4/4

Renew the high/low gear (transfer case) oil

1. Park machine on a level surface. Lower decking blade to the ground and secure grapple to Rear frame.
2. Engage park brake. Turn key switch OFF.

CAUTION: Prevent possible injury from unexpected machine movement. Install frame locking bar before working in frame pivot area.

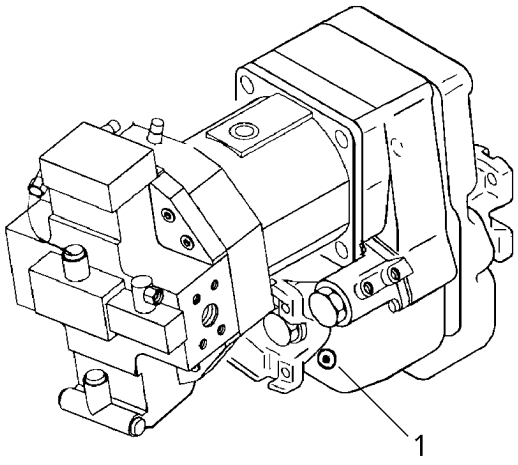
3. Install frame locking bar.
4. To access the bottom of the transfer case, remove the cover on the underside of the front frame.
5. Remove the drain plug and drain the transfer case oil into a suitable container.

NOTE: Dispose of waste properly.

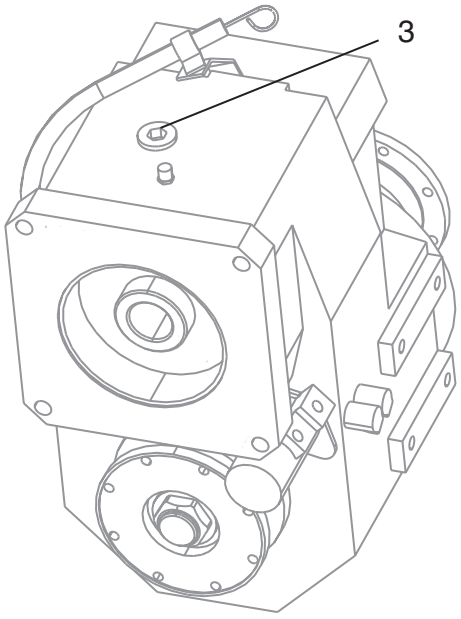
6. After draining, install the plug and replace the access cover.

NOTE: To vent transfer case while adding oil, pull up dipstick.

1—Drain plug
3—Fill plug



T152797 –UN–20MAR02



T152824 –UN–20MAR02

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EL62757,000011E –19–10APR02–1/2

Change Bogie Housings Oil

NOTE: Before changing the bogie housing oil, let the machine stand for 30 minutes to allow impurities to settle to the bottom.

1. Park the machine on a level surface. Engage the parking brake. Install the frame lock.
2. Clean the area around the plugs.
3. Remove the filler plug to vent the bogie housing.
4. Remove the inspection plug.
5. Remove the drain plug. Drain a sample of oil into a suitable container.

Specification

Bogie Housing Oil Sample—
Volume..... 5 L (5.3 qt.)

Check the condition of the oil. If the oil is clear, add new oil.

NOTE: The oil sample taken from the bogie housing is not reusable.

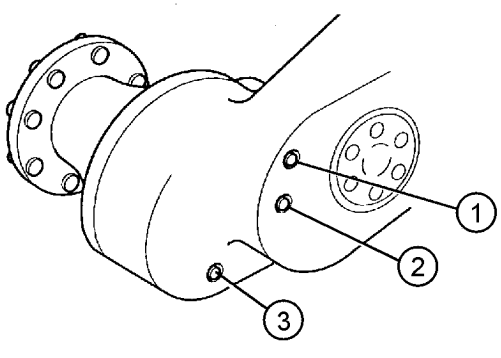
If the oil is cloudy, replace all the oil in the bogie housing.

NOTE: Dispose of waste properly. Do not dump oil on ground or in sewers.

6. Install the drain plug. Add oil to the bogie housing through the filler port until the oil level is up to the inspection port.
7. Install the filler and inspection plugs.

NOTE: Any time plugs are removed, the O-ring seals should be replaced.

8. Repeat the procedure at each bogie.



T142919 –UN–13JUN01

1—Filler Plug
2—Inspection Plug
3—Drain Plug

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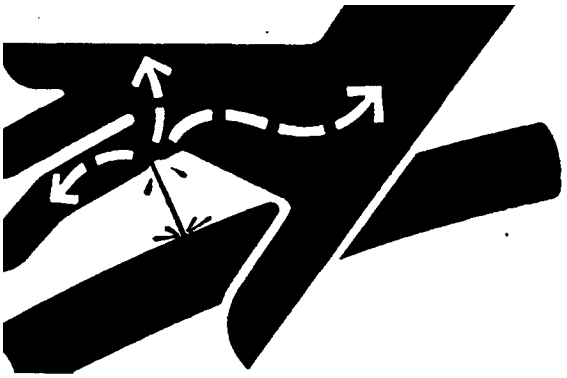
OUTJ003,00006B8 –19–16MAY01–1/2

Restarting Engine Which Has Run Out Of Fuel



X9811 –UN–23AUG88

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting fuel or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles that eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, a doctor familiar with this type of injury must surgically remove it within a few hours or gangrene may result.

Whenever the fuel system has been opened up for service (lines disconnected or filters removed), it will be necessary to **bleed** air from the system. (See BLEEDING THE FUEL SYSTEM)

In case the engine has run out of fuel, the fuel system must be **primed** by the following method:

1. Fill fuel tank

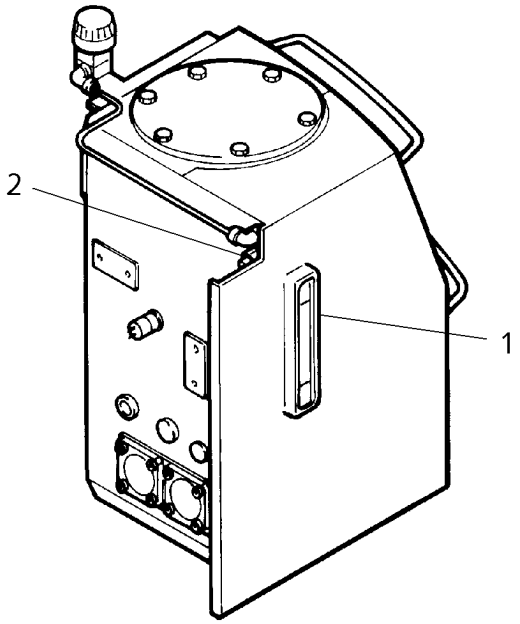
2. Turn the start key to position **I**.

Continued on next page

RG41221,0000001 –19–18DEC00–1/2

Checking the oil level in hydraulic tank

1. Check the hydraulic oil level in the sight glass (1) of the tank. When you do this, the lift and shift cylinders have to be in the innermost position.
2. If necessary add oil.



T152230 –UN–05MAR02

1—Sight glass
2—Vent tap

Capacities	Hydraulic tank	min. 175 l (46.2 gal) / max. 220 l (58.1 gal)
Mineral oil	Summer oil	SMRs norm SH 68
	Winter oil	SMRs norm SHS 32
	Year-round oil	SMRs norm SHS 46
If you use synthetic biodegradeable oil:		Neste Biohydrauli SE 46

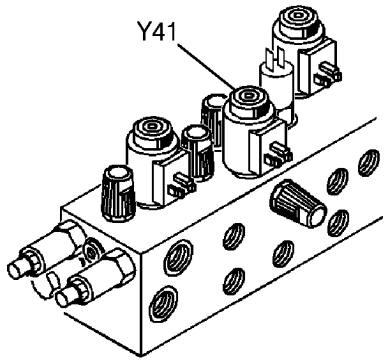
EL62757,0000131 –19–10APR02–1/1

Hydrostatic System: Drive Pump adjusting

Checking and adjusting the charge pressure

1. Disconnect the parking brake solenoid Y41 from the valve block. After this, the parking brake will stay engaged
2. Connect a pressure gauge (0 ... 6 MPa) (0... 870 psi) to pressure measuring point (204). When the engine RPM is 1600, the pressure should be 2.8 ... 3.2 MPa (406 ...464 psi).
3. If necessary, adjust the pressure with adjusting screw (207).
4. Fit the solenoid into the valve and tighten the lockscrew hand tight.

Y41—Park brake solenoid
(204)—Measure point
(207)—Adjust screw



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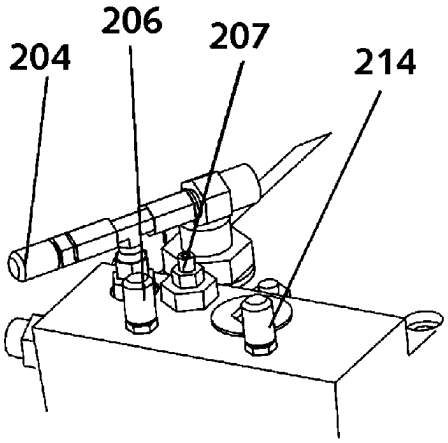


T153143 –UN–19FEB03

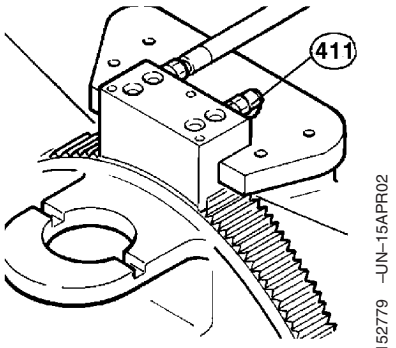
EL62757,000019D –19–21APR02–1/1

Adjusting Frame Brake

The pressure used for the same frame brake is provided by the lift cylinder, not directly from the pump.

1. The boom and working rpm are engaged
2. Grap for instance a stake with the grapple.
3. Use the main lift and keep it engaged.
4. Check the pressure at measuring point (411). The pressure should be 21.0 MPa (3045 psi).
5. If necessary, adjust the pressure from adjusting screw (409)

(411)—Pressure measure point



EL62757,00001A5 –19–21APR02–1/1

Adjusting Optional Equipment

- Headboard movement
- Decking blade
- Preparedness for clambunk

All optional equipment (as installed at the factory) operate with the maximum pressure. T*here are no separate pressure adjustments.*

EL62757,00001A6 –19–21APR02–1/1

- disconnect two ECU's cables (3)
- disconnect Hub's cables (5 cables)

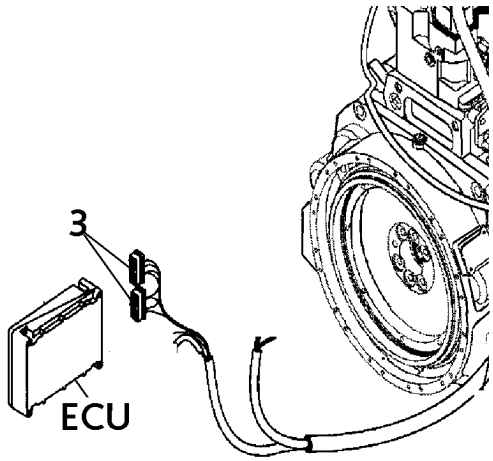
2. Grounding
   - Connect the ground wire as close to the welding point as possible.
   - The welding current must never pass through bearings, joints, electrical equipment, or hydraulic systems.

3. The parts that must never be welded:
   - boom fastening bolts
   - control valves
   - hydraulic pipes

4. The parts that must not be welded without the manufacturer's instructions:
   - castings
   - cylinder loops.

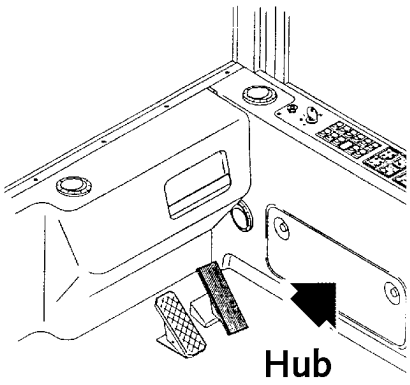
5. The points and components to which it is forbidden to attach other parts by welding:
   - castings
   - boom ends
   - cylinder fastening lugs
   - corners of box girders

6. Welding.
   Weld inside, if possible, in facilities reserved for this purpose where the temperature is at least 10 degrees centigrade. If welding in other places, pay attention to local regulations and to circumstances as well as to the environment before you start welding.
   The welder must possess adequate skills and the permits required.
7. Assessment of damage.
   In case a component or structure has been damaged as a result of an accident, excessive load, or fatigue, it is first necessary to determine whether the structure requires reinforcements or is ordinary repair sufficient.
8. Instructions.
   Before you start welding you can also contact the manufacturer who has detailed instructions for each case.
   Possibility of major damage is reduced by regularly cleaning and checking the machine and the boom.



T159291 –UN–11SEP02

ECUs cables



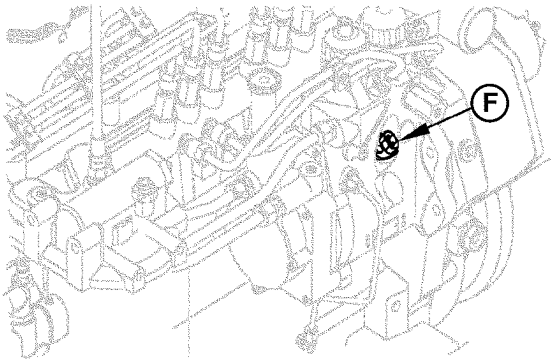
T159362 –UN–13SEP02

Hub in the cabine

EL62757,00001B0 –19–21APR02–2/2

Event Sensor

The event sensor is located on the side of the high pressure fuel pump. It is an inductive type pickup sensor that detects notches on the auxiliary gear of the high pressure fuel pump camshaft. The auxiliary gear is composed of 6 evenly spaced notches with one additional notch offset to tell the ECU that cylinder #1 is approaching Top-Dead-Center.

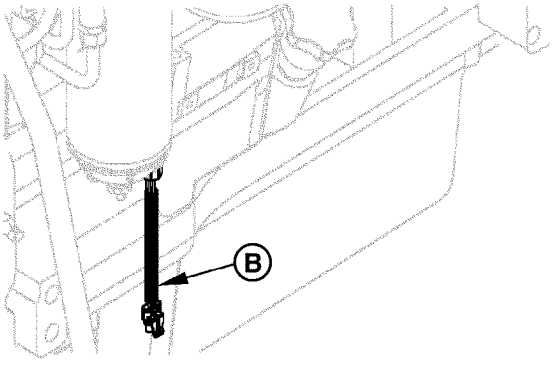


Event Sensor

RG41221,0000021 –19–09OCT00–3/3

Water In Fuel (WIF) Sensor

The WIF sensor is located inside the water separating bowl of the final fuel filter. When water is detected in the fuel, a signal is sent to the ECU. The ECU monitors this for engine protection purposes.



Water in Fuel Sensor (WIF) Harness

RG41221,0000022 –19–09OCT00–1/1

General Operating Instructions

First, operate the loader smoothly without load in order to allow the grease to warm up and a coherent lubrication film to be formed in loader joints.

During Operation:

1. Observe the lifting ratings given on the loader decal. The weight of the lifting equipment is included in the load to be lifted.
2. When handling a maximum load, exercise great caution.
3. Operate the control sticks smoothly; avoid jerky movements
4. Exercise extra caution always when a boom or the booms are in their extreme positions.
5. Keep an eye on machine stability.
   a. Constant alertness is required particular when operating on sloping ground.
   b. If necessary, lift small loads only
   c. When you notice that the machine is about to fall over, pull all extensions in, bend the outer boom, and lower the load smoothly onto the ground.

6. When handling a load proceed as follows
   a. Lift the load up
   b. Move it closer to the machine.
   c. Slew it.
   d. Lower the load down.

7. It is possible that you exceed the lifting capacity of the loader (the booms will sink) if you pick up a load that is close to the machine and move the load away from the machine. When this happens you must bring the load closer to the machine by pulling the outer boom or extension inwards. This is necessary because otherwise the power of the main boom cylinder will not be sufficient to handle the load.

When Loading Is Over:

1. Carry out the last movements unloaded
2. Lower the booms (and also the center of gravity) onto the load, as down as possible.
3. Close the grapple around the load or frame in order to prevent the loader from moving sideways.

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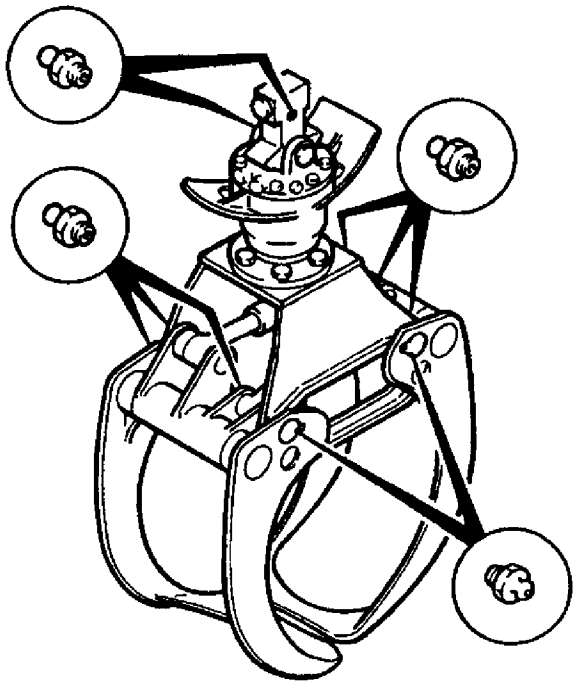
Grease the grapple and link.

The greasing points are shown in the illustration.



T142860 –UN–13JUN01

EL62757,00001B8 –19–21APR02–1/1

Air Conditioner, Using

The heating and cooling devices are controlled automatically through temperature control. This way, the temperature in the cabin is brought on the level set with regulator (2).

A) In the summer, when the weather is warm and humidity normal:

1. Close the recirculating air vent by turning the control (3) clockwise as long as it goes.
2. Select the temperature you wish (2).
3. Direct the air flow to the vents of your choice (4)

B) In the summer, when the weather is hot and humidity high:

IMPORTANT: The internal air circulation of the cooling system must not be obstructed. Make sure that the protective mesh is not clogged.

1. Open the recirculating air vent by turning the control (3) counterclockwise as long as it goes.
2. Select the temperature you wish (2).
3. Adjust the fan to the maximum speed (1).

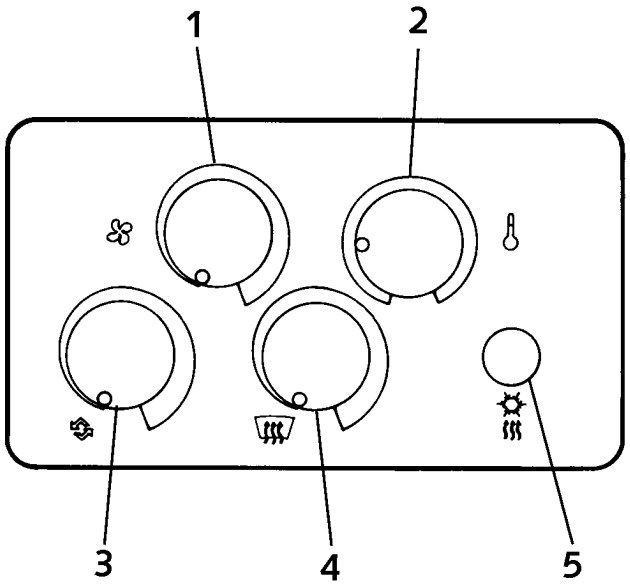
C) In the fall and early winter, when the humidity is high; when it is raining; when there is a lot of wet snow; and when there is steam on the windshield:

1. Engage the dehumidification (max. defrost) (5).
2. Open the recirculating air vent (3)
3. Select the temperature you wish (2).
4. Direct the air to the windshield vents (4).

Dehumidification (5) switches the cooling device on and the fan to the max. speed, and opens the heating valve fully.

When the right temperature (2) has been achieved, the fan speed switches over to the speed set with regulator (1).

The temperature is kept on the desired level by regulating the cooling device and the heating valve.



T152201 –UN–02OCT02

1—Speed
2—Temperature
3—Air circulation
4—Air flow
5—Defrost

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CAUTION: Risk of fire.

- ❒ Always switch off the battery main switch to protect the control unit before any electric welding on the machine, also see Section 8, welding.
- ❒ Start the heater about once a month even during the summer and allow it to run for a few minutes to prevent binding of the fan and water pump.

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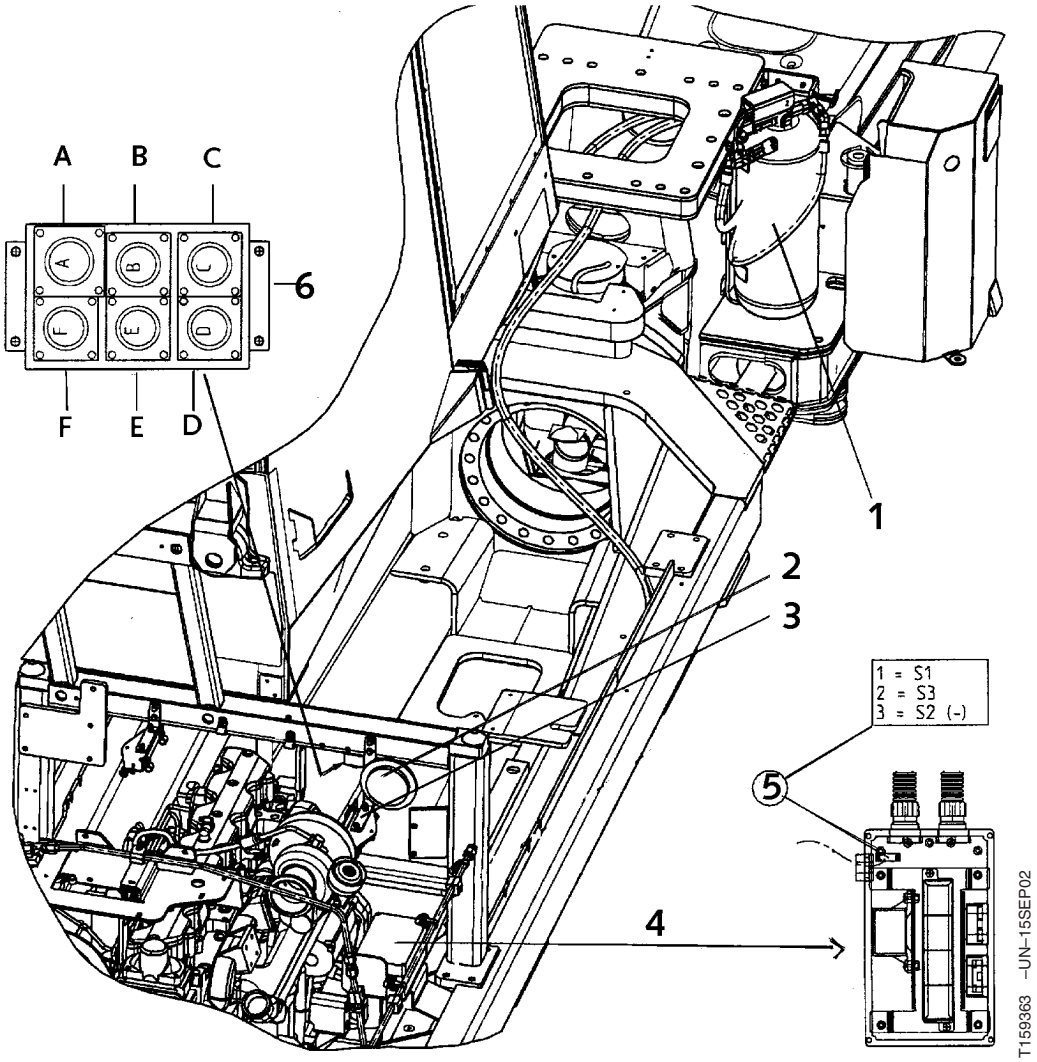


Fire Extinguisher System in the machine

1. Fire extinguisher
2. Signal Horn
3. Support
4. Fuse box
5. Connector housing
6. Junction box
   a. Central Unit
   b. Fuse box
   c. Signal horn
   d. Not in use
   e. Thermal sensor
   f. Tripping

EL62757,0000202 –19–24APR02–3/3

Symptom	Problem	Solution
Low-Pressure System - Fuel Pressure Low—Engines (200,000—)	Plugged fuel filter	Replace fuel filter.
	Restricted fuel line	Locate restriction, repair as required.
	Faulty high-pressure fuel pump	Remove fuel pump, repair/replace pump as required. See your John Deere engine distributor or servicing dealer.

Continued on next page

RG,RG34710,4089 –19–01JAN96–4/7

Symptom	Problem	Solution
Drive system response is sluggish.	Insufficient hydraulic fluid.	Check the supply of oil to the pump. Low oil level in the tank or a blocked or kinked suction hose will reduce output pressure.
	Control signal not reaching pump. Incorrect pilot pressure.	See authorized dealer.
	Drive pressure relief valves improperly set.	See authorized dealer.
	Low or uneven charge pressure.	Check the charge pressure filter for clogs.
		See authorized dealer.
	Internal leakge in pump.	See authorized dealer.
	Brakes not fully released.	Release brakes.
Excessive noise or vibration.	Insufficient hydraulic fluid.	Check the supply of oil to the pump. Low oil level in the tank or a blocked or kinked suction hose will cause cavitation in the pump.
	Clogged charge pressure filter.	High inlet vacum will cause noise. Replace filter.
	Air in system.	De-aerate system.

OUTJ003,000067E –19–14MAY01–3/3

IMPORTANT: Prevent possible machine damage from unauthorized persons operating machine. Attach a "DO NOT OPERATE" tag to key switch.

11. Place a "DO NOT OPERATE" tag on key switch.
12. Lubricate all grease points.
13. Remove batteries.
14. Remove seat cushion and other perishable items.
15. Remove keys and lock all covers and doors.

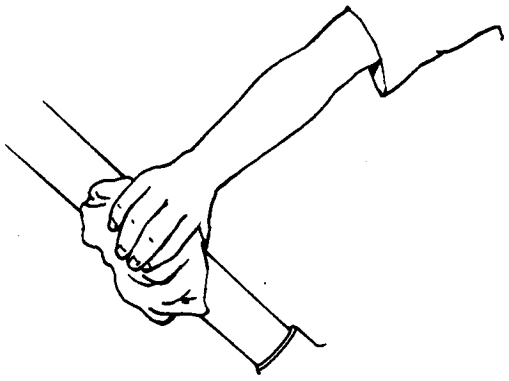
T7447AO –19–22APR91

OUTJ003,0000665 –19–13MAY01–3/3

Monthly Storage Procedure

CAUTION: Engine exhaust fumes can cause sickness or death. Start engine ONLY in a well-ventilated area.

1. Drain water and sediment from fuel tank when air temperature is above freezing.
2. Remove Rust Inhibitor from cylinder rods with a cleaning solvent.



T6191AA –UN–18OCT88

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OUTJ003,0000666 –19–13MAY01–1/3

Extra Equipment Hydraulics (F619741)

Position	Meaning	Pressure (MPa)	Pressure (psi)	Placement
400	Hydraulic oil pump			Under the cab
401	Hydraulic oil tank			Front frame
402	Filling pump, hydraulic oil			Under the cab
403	Quick coupler			Main switch
404	Compressed air valve			Hydraulic tank
405	Vacuum pump			Under the cab
406	Bleeding valve filter			Hydraulic tank
407	Vacuum valve			Under the cab
408	Bleeding valve			Under the cab
409	Adjustment screw, frame brake pressure	21	3046	Attachement valve
410	Solenoid, frame brake			Attachement valve
411	Measure point, frame brake pressure			Middle joint
412	Frame brake cylinder			Middle joint
413	Loader valve			Under the cab
414	Lift cylinder			Boom
415	Steering valve			Rear frame
416	Manual steering valve, frame steering			Cabin
417	Steering valve, frame steering			Pilot valve
418	Shuttle valve			Front frame
419	Stairs' steering valve			Front frame
420	Orifices			Front frame
421	Stairs' cylinder			Front frame
422	Directional valve			Front frame
423	Quick coupler			Front frame

Continued on next page

F630392 2/16

Position	Description	Scheme	Location
A2	Radio	214 R	Ceiling
A3	Radio-telephone	218 D	Ceiling
B1	Pressure switch, engine oil pressure	203 T	Engine
B3	Pressure switch, brakes charge pressure	205 T	Brake valve
B4	Pressure switch, hydraulic supply pressure	202 T	Hydrostatic pump
B5	Pressure switch, parking brake	201 T	Auxiliary valve
B11,B12	Loud speaker	214 V/215 V	Ceiling
B29	Voltage transformer	214 K	Instrument box
B40, B41	Loud speaker	216 V	Ceiling
F8	Fuse 10A, radio	216 C	PC-board
F20	Fuse 7,7A, indicator lights	201 C	PC-board
F32	Fuse 5A, voltage transformer	214 F	PC-board
H1	Warning light, charge	209 K	Gauge panel
H2	Warning light, engine gridheater	203 K	Gauge panel
H3	Indicator light, parking brake	201 K	Gauge panel
H6	Indicator light, blinker	207 K	Gauge panel
H10	Indicator light, working lights	208 K	Gauge panel
H12	Indicator light, main beam	205 K	Gauge panel
H18	Warning light, hydraulic supply pressure	202 K	Gauge panel
H19	Warning light, brakes charge pressure	204 K	Gauge panel
K9	Relay, hourmeter	212 H	PC-board
K20	Relay, radio	216 I	PC-board
P1	Hourmeter	212 P	Instrument box
R3	Resistor, charge warning light	210 J	Gauge panel
X6,X7	8-pin connectors	206 I, 200K	Indicator lights
X13	9-pin connector	214 N	Cabin
X17	2-pin connector	218 F	Cabin, rear
X21	16-pin connector	210 R	Cabin floor
X46	9-pin connector	215 N	Cabin
X50	8-pin connector	214 P	Radio
X51	3-pin connector	214 S	Radio
XB2 - XB10	9-pin connector		PC-board
X172	2-pin connector	218 P	

Continued on next page

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Position	Description	Scheme	Location
A4	Hub-module, CAN-bus	704 M	Instrument box
A5	Display, TMC	710 C	Seat
B23	Gas-/drivepedal, front	708 V	Cabin, front
B24	Gas-/drivepedal, rear	709 V	Cabin, rear
F17	Fuse 7,5 A, switches	709 F	PC-board
F21	Fuse 10A, TMC	703 C	PC-board
H8	Alarm light, TMC	704 U	Ceiling
J1	Splice	707 Q	Wiring
J4	Splice	708 Q	Wiring
S58	Switch, parking brake	714 D	Control panel
S59	Switch, all-wheel drive	706 F	Control panel
S60	Switch, steering on/off	717 E	Control panel
X12	9-pin connector	704 R	Instrument box
X18	3-pin connector	707 U	Instrument box
X19	3-pin connector	709 U	Instrument box
X75	4-pin connector	705 R	Instrument box
X80	6-pin connector	711 V	Instrument box
XB2	9-pin connector	704 E	PC-board
XB3	9-pin connector	702 E	PC-board
XB4	9-pin connector	703 F	PC-board
XH1	8-pin connector	709 J	Hub-module
XH2	8-pin connector	712 J	Hub-module
XH3	8-pin connector	710 P	Hub-module
XH4	23-pin connector	703 P	Hub-module
XH5	8-pin connector	712 P	Hub-module
Y41	Magn. valve, parking brake	716 S	Front frame

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Position	Description	Scheme	Location
A8	TMC-Crane module	1103 O	Under the cabin
B53	Limit switch, damping of the steering	1103 X	Middle joint
X33	4-pin connector	1102 I	Front frame
X34	2-pin connector	1105 I	Front frame
X61	12-pin connector	1114 R	Front frame
X79	3-pin connector	1116 J	Front frame
X97	4-pin connector	1117 K	Crane valve wiring
XE1	23-pin connector	1100 M	TMC-Crane module
XE2	23-pin connector	1104 M	TMC-Crane module
XE3	23-pin connector.	1102 M	TMC-Crane module
XE4	8-pin connector	1100 Q	TMC-Crane module
Y66L	Magn. valve, steering L	1105 V	Crane valve
Y66R	Magn. valve, steering R	1106 V	Crane valve
Y100D	Magn. valve, headboard	1102 G	Front frame
Y100L	Magn. valve, headboard lock valve	1104 E	Front frame
Y100U	Magn. valve, headboard	1101 G	Front frame
Y211	Clambunk magn. valve	1114 U	Front frame
Y212	Clambunk magn. valve	1115 U	Front frame
Y221	Clambunk magn. valve	1117 U	Front frame
Y222	Clambunk magn. valve	1118 U	Front frame
Y231	Clambunk magn. valve	1115 H	Front frame
Y232	Clambunk magn. valve	1116 H	Front frame
Y408	Magn. valve, rotator clockwise	1110 G	Crane valve
Y409	Magn. valve, rotator counterclockwise	1108 G	Crane valve
Y416	Magn. valve, grapple open	1111 G	Crane valve
Y417	Magn. valve, grapple close	1113 G	Crane valve
Y418	Magn. valve, extension out	1114 V	Crane valve
Y419	Magn. valve, extension in	1116 V	Crane valve
Y420	Magn. valve, main boom up	1105 G	Crane valve
Y421	Magn. valve, main boom down	1107 G	Crane valve
Y422	Magn. valve, jib boom out	1111 V	Crane valve
Y423	Magn. valve, jib boom in	1112 V	Crane valve
Y424	Magn. valve, Boom counterclockwise	1108 V	Crane valve
Y425	Magn. valve, Boom clockwise	1109 V	Crane valve

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Position	Description	Scheme	Location
A5	TMC Display	1601 P	Cabine
A11	Printer	1601 E	Cabine
B55	Limit switch, boom above load space	1608 D	Boom tower
B80	Weight scales sensor	1612 D	Weight scales
X72	6-pin connector	1611 H	Boom
X73	6-pin connector	1611 M	Cabin
X74	2-pin connector	1615 P	Cabin
X97	3-pin connector	1608 M	Under cabin/crane module
XH5	8-pin connector	1600 S	Hub module
XH6	23-pin connector	1600 N	TMC Display

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EL62757,0000482 –67–01SEP03–33/34