

Timberjack 460 Euro Skidder

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.

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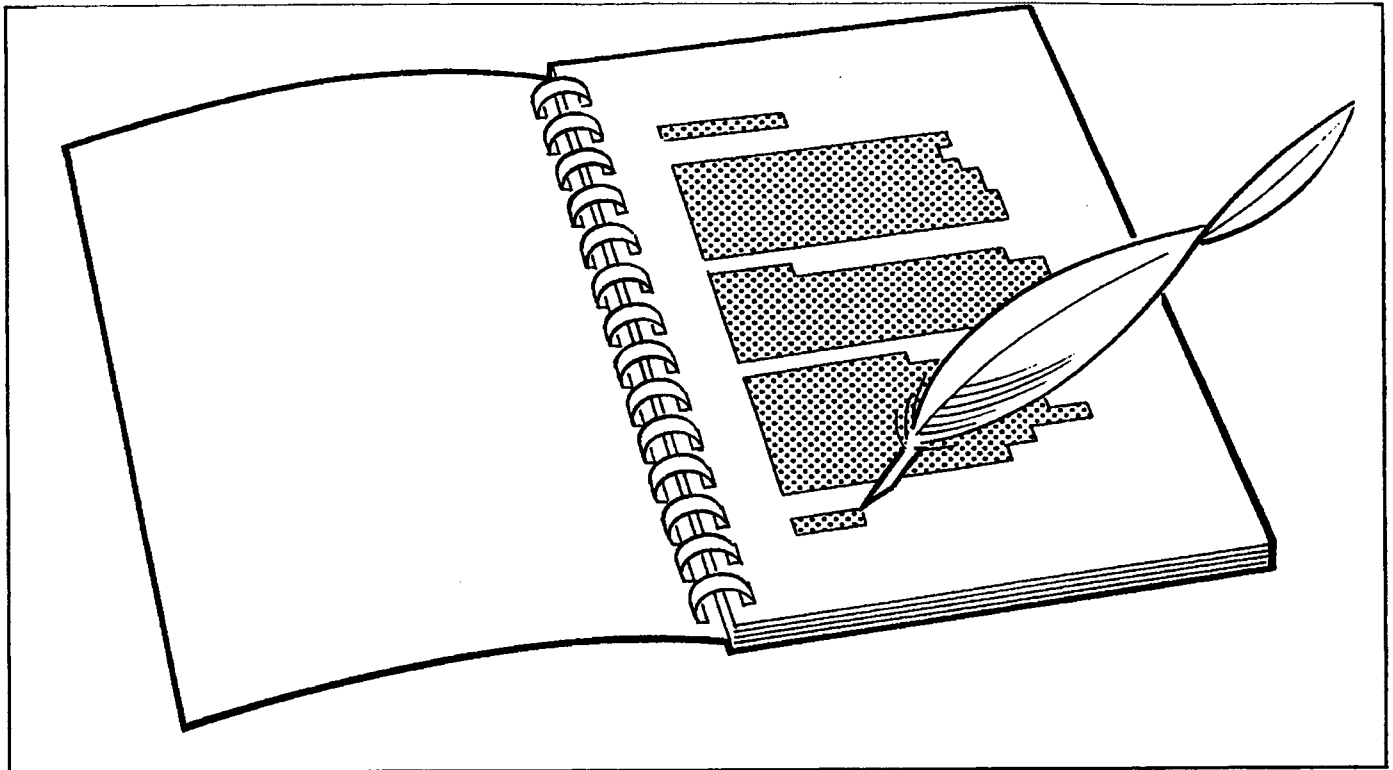
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1. Introduction



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2.2 Items Not Covered By Warranty:

Items and service related functions that are not covered by warranty include, but are not limited to:

1. Issues resulting from misuse, negligence or accident.
2. Issues arising from the use of non approved parts.

3. Repairs or adjustment by other than Timberjack Inc. or its authorized dealers.
4. Engine Tune-up.

5. Issues resulting from the installation of unauthorized attachments or modifications.
6. Transportation of the machine to or from the repair location.

7. Issues due to unauthorized tire loading.
8. Dealer travel or mileage expense.

9. Injection pump and injector adjustments.
10. Air, oil and fuel filter elements.

11. Air conditioning filters, freon, receiver dryer.
12. Diagnosis time will not be considered warranty labour.

13. Tightening of nuts, bolts, screws, etc. or adjustments.
14. Natural wear or defects caused by natural wear.

15. Issues due to use of improper fuel, oil, grease, coolant, or other fluid or lubricant.
16. Freight expenses, daily allowances and overtime labour rates.

17. Damage occurring while in dealer inventory or in transit from the factory to dealer and from dealer to customer.
18. Issues resulting from the use of tire chains or rigging.
19. Indirect damages such as loss of earnings, etc.

20. Normal Maintenance services. Maintenance services that are not directly involved with defective parts are considered normal service and should be excluded from a claim. These service include (but not limited to):
 - Fuel system cleaning
 - Engine tune-up
 - Brake inspection and adjustment
 - Clutch adjustment and inspection

 - Other adjustments (but not limited to) such as:
 - Tightening of hydraulic fittings
 - Adding or replacing of service fluid and filters
 - Replacement of air, hydraulic, transmission, engine fuel filters, oil, belts, and breathers.
 - Hydraulic pressure adjustments.

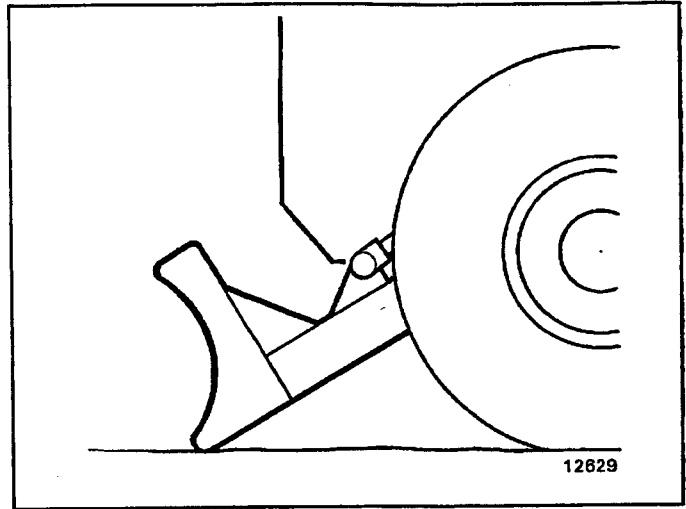
3.5 Operating Safety Precautions

DO NOT PARK ON A HILLSIDE OR AN INCLINE.

Always park the machine on level ground.

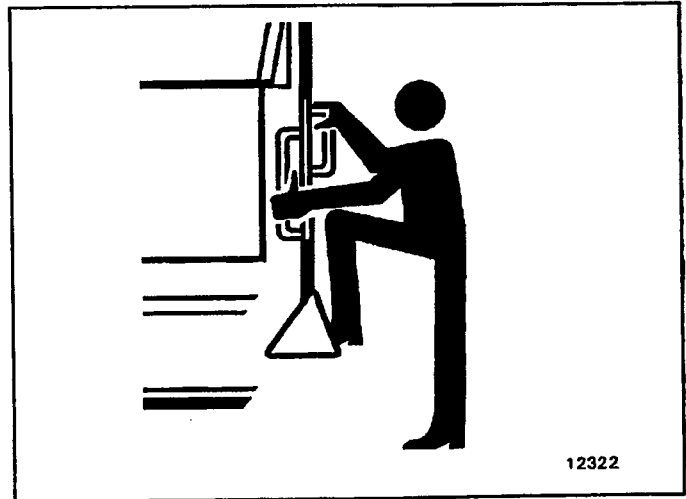
Stop the vehicle, engage the parking brake, and lower the dozer blade to the ground.

Place the loader boom and grapple on the vehicle bunk or load, or rest the skidder grapple or cable suspended load on the ground. Do not leave any attachment or load unsupported.



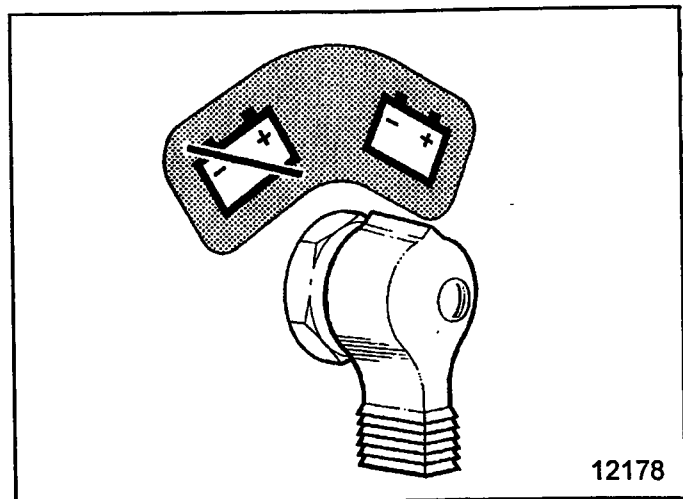
Never dismount from moving equipment. Observe proper shutdown practices before dismounting.

Check for slippery steps and handholds and dismount the machine carefully. Do not hang on to any controls and never jump off the machine.



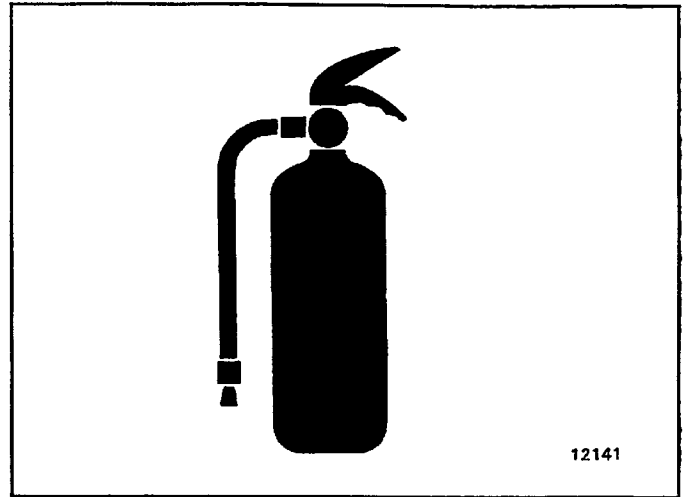
Stop the engine and relieve any pressure trapped in the hydraulic system.

Turn the master disconnect switch off if the machine is to be left unattended.



3.9 What to Do if the Machine catches Fire

- Turn the engine off.
- Turn the master disconnect switch off
- If possible, fight the fire using the portable fire extinguisher or other fire suppression equipment.
- Ensure that the fire does not spread to the surrounding area.
- Call for help!

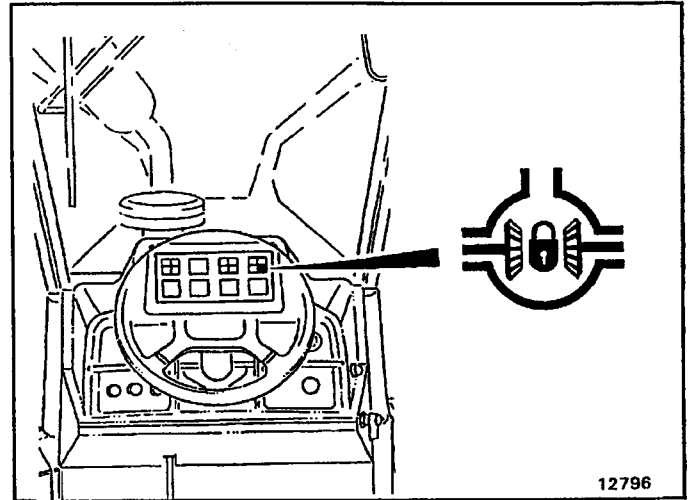


4.3 Controls and Instrumentation

4.3.2 Gauge Instrument Panel

Axle Differential Lock Indicator

The amber indicator will light up when the differential lock is engaged or when the service brake is applied.

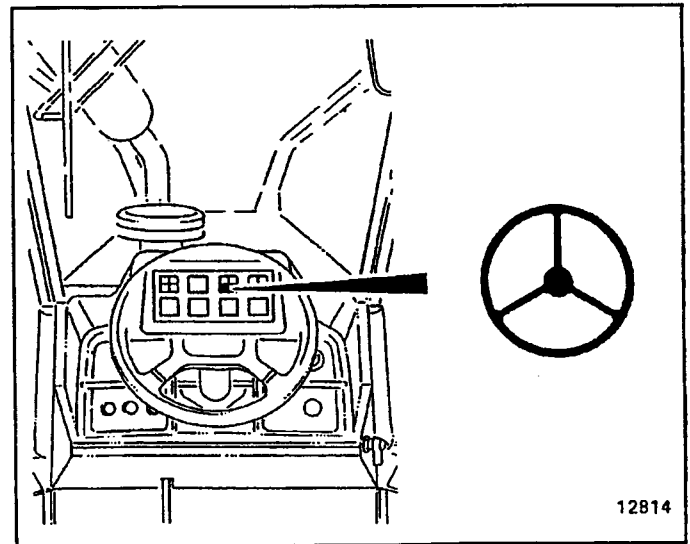


Secondary Steering Indicator (Optional)

The red indicator will light up when the hydraulic oil pressure drops below 138 kpa (20 psi) indicating a hydraulic system failure.

▲ CAUTION

Do not continue to operate the machine if this indicator is activated. Maneuver the skidder to a safe location. Lower the dozer blade and grapple to the ground. Apply the parking brake, and turn off the ignition switch. Contact your Timberjack dealer for servicing.



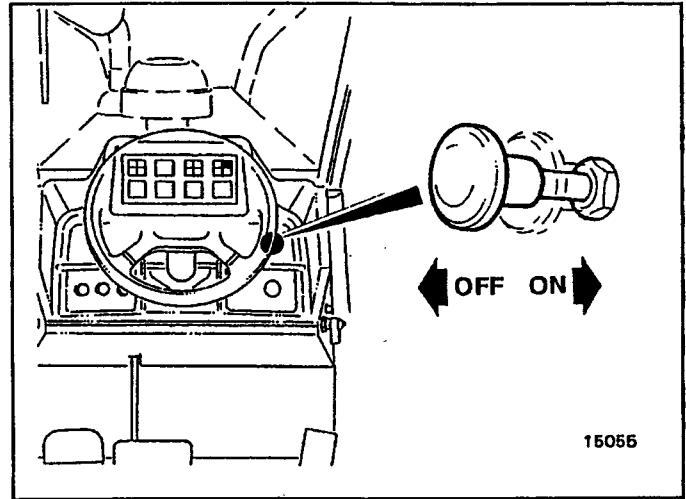
4.3 Controls and Instrumentation

4.3.5 Driving/Operating Controls

Parking Brake Button

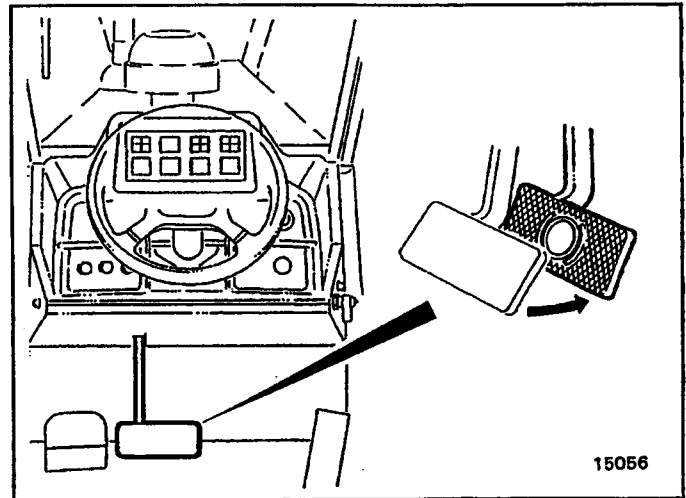
Used to apply the spring applied transmission parking brake. The brake indicator will come on when the parking brake is applied.

When the brake is on, the transmission is shifted into neutral.



Service Brake

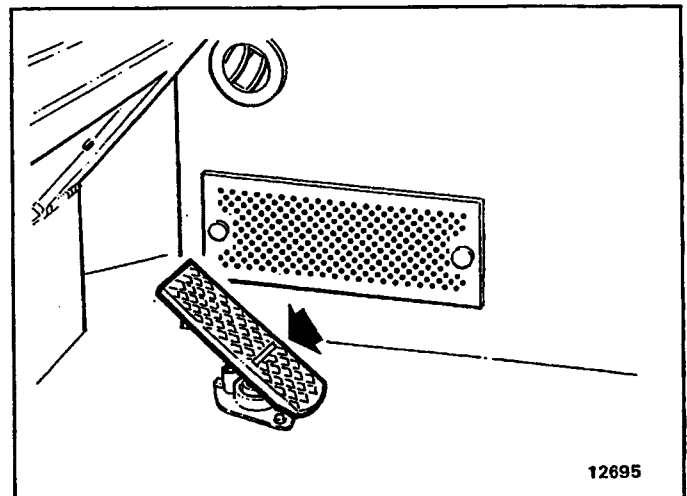
The service brake is used for normal stopping or slowing down, and can be applied with either the left or right foot.



Accelerator Pedal

The accelerator is used to control engine rpm. Pressing down on the accelerator will increase fuel flow to the engine.

Lifting your foot off the accelerator will decrease fuel flow.



5.1 Driving the Skidder

5.1.3 Engine Break-In Procedure:

During the first 50 hours of operation, run the engine at moderate speeds. Avoid prolonged idling periods (more than 10 minutes).

Check these gauges on the instrument panel frequently.

1. Transmission Oil Temperature
2. Engine Coolant Temperature
3. Hydraulic Oil Temperature

5.1.4 Starting/Operating the Engine

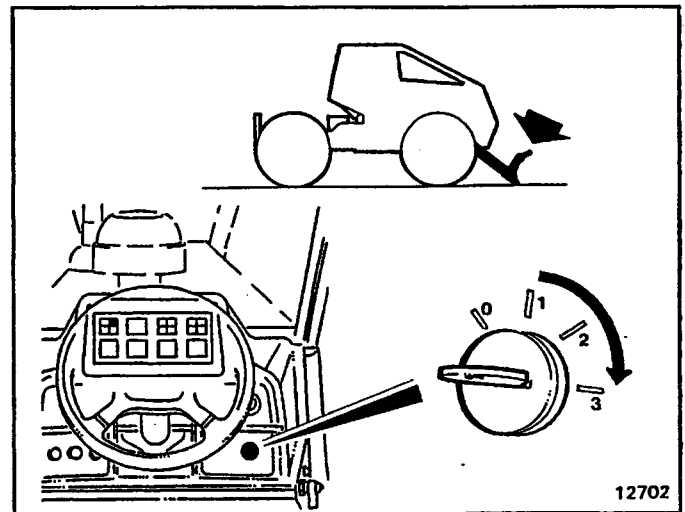
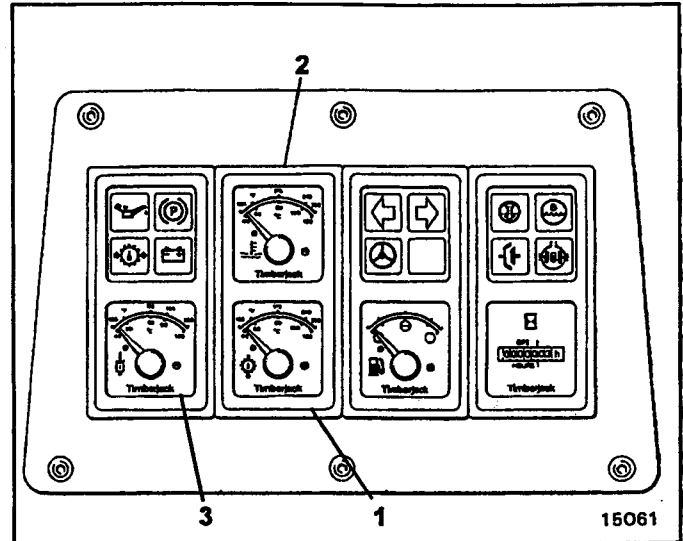
Starting - Above 5°C (40° F):

1. Keep your foot off the accelerator.
2. Insert the key into the ignition switch. Turn the key fully to the right (clockwise) to "START" (position 3). This will energize the starter motor and start the engine. Do not crank the starter motor longer than 30 seconds.

Note:

If the key is released before the engine starts, it must be switched to "OFF" (position 1) and then returned to "START" (position 3).

3. When the engine starts, release the ignition switch and let the engine idle for a few minutes at approximately 1000 rpm before operating with a load. The ignition key will return to the "IGN" (position 2) automatically.
4. When the engine runs smoothly, raise the dozer blade.
5. Apply the service brake, release the parking brake and select a transmission gear.



5.1 Driving the Skidder

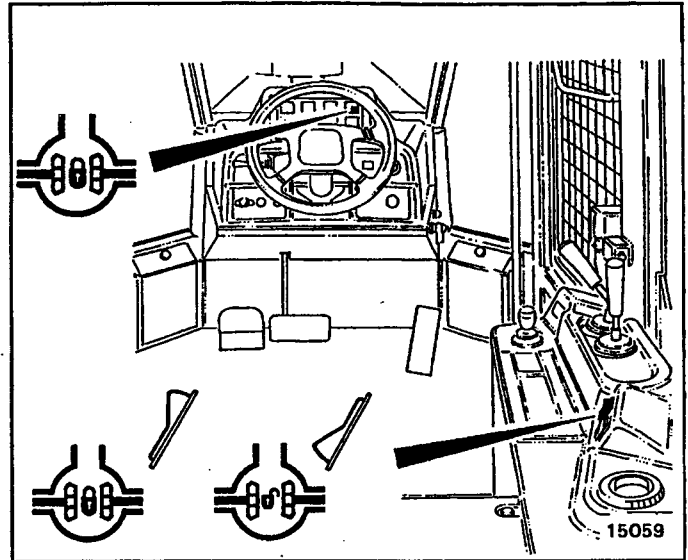
5.1.7 Operating the Driving Controls

Using the Differential Lock Switch

The Differential Lock should normally be "OFF" (unlocked symbol) and only switched "ON" (locked symbol) when additional traction is required on the front and rear wheels.

The Differential Lock Indicator will light up when the lock is switched "ON".

The Differential Lock can be switched "ON" or "OFF" at any time, stopped or under power.



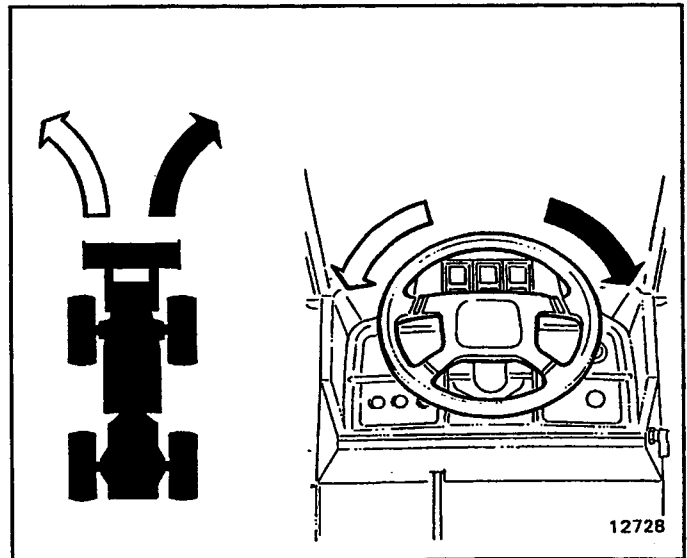
Steering the Skidder

Steering is controlled by the steering wheel. The engine must be running to operate the hydraulic steering system, unless the skidder is equipped with a secondary steering system (optional equipment).

Turn the wheel left (counterclockwise) to steer to the left. The faster the wheel is turned, the faster the turning speed.

Turn the wheel right (clockwise) to steer to the right.

Once the turn is completed, turn the steering wheel in the opposite direction to straighten the machine.



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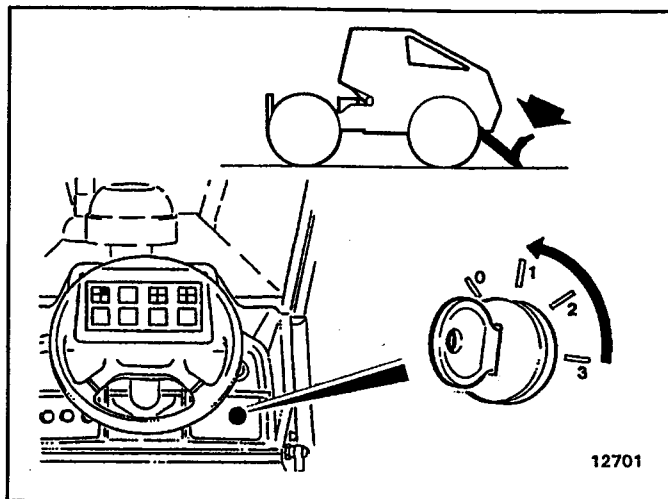
5.6 Tilting the Cab:

5.6.1 Raising the Cab

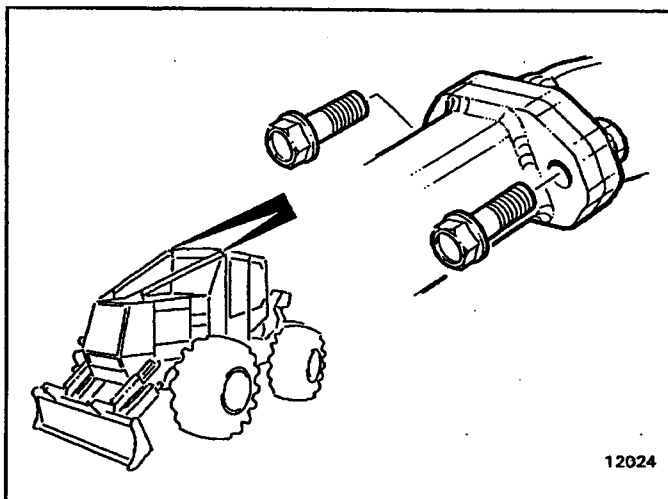
▲ WARNING

It is recommended that the cab be tilted only when the skidder is on level ground. Lower the dozer blade to the ground, apply the parking brake, and turn off the ignition switch.

Failure to follow these safety precautions may lead to risk of personal injury or machine damage.



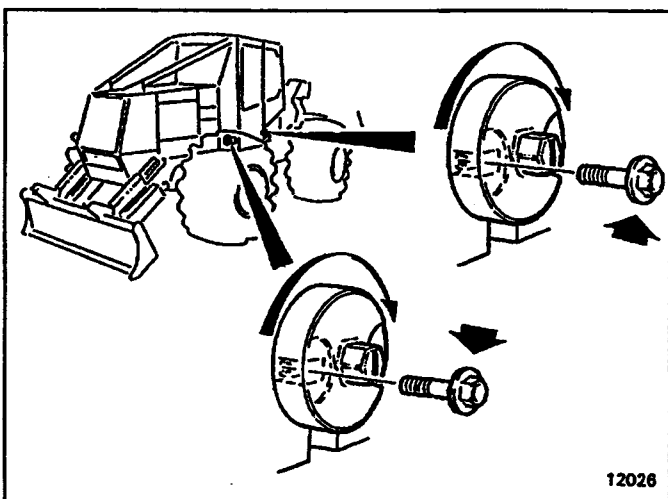
1. Remove the canopy sweep bolts. Use a 24 mm socket wrench.



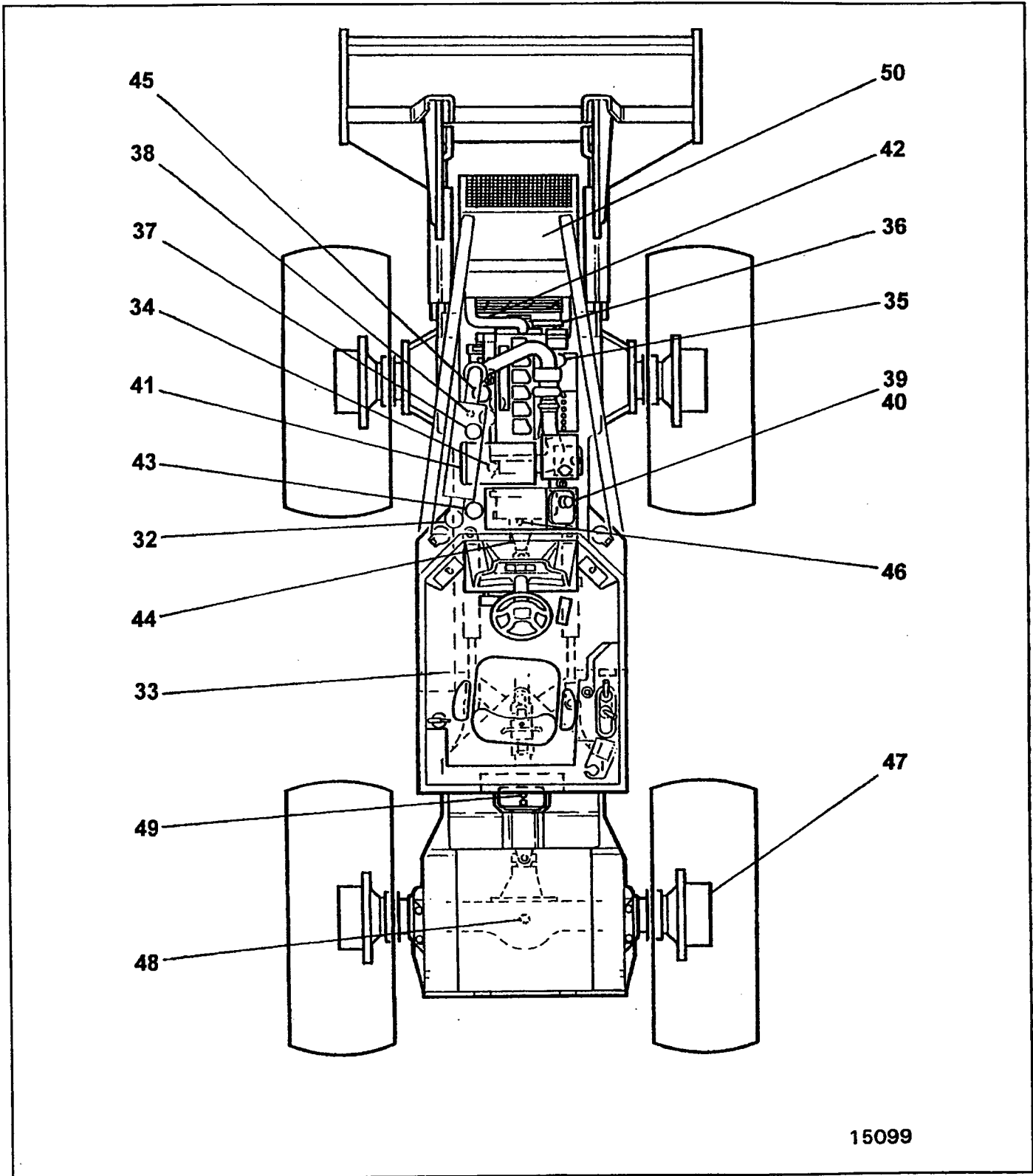
2. Remove the locking pin bolts (18 mm wrench), and then turn each locking pin clockwise using a 24 mm socket wrench.

The yellow orientation line on the pin should be in a vertical position.

If it is necessary to leave the left hand door open, install the door stop (Section 4.3.7) before tilting the cab.



6.1 Maintenance Schedule



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6.2 Maintenance Procedures

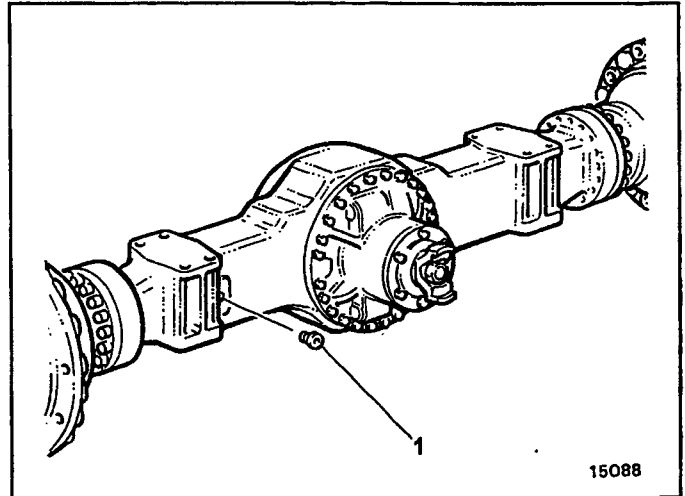
6.2.2 Maintenance 50 Hours

19. Check Axle Differential Oil Level.

⚠ WARNING

Shut the engine off, lower the dozer blade to the ground, and engage the parking brake before working under the machine. Failure to observe these safety precautions can lead to risk of personal injury.

Oil should be level with the bottom of the filler plug hole (1). Add oil if required. See Section 6.3 for recommended oil.



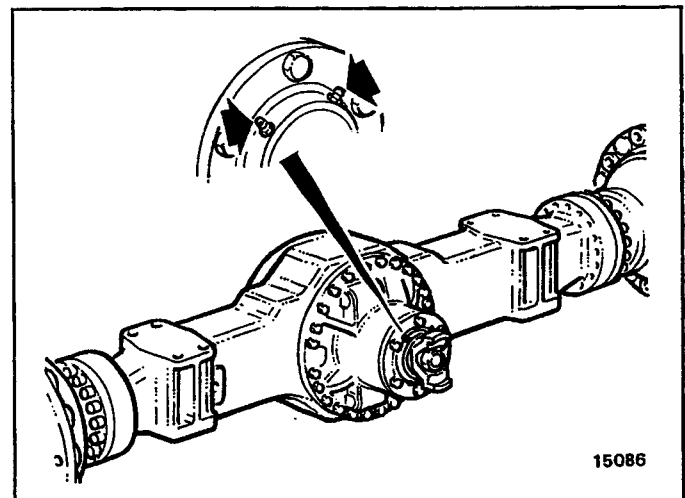
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20. Lubricate Axle Pinion Seals

Front Axle

Grease fittings are accessible from the underside of the front frame where the axle extends beyond the walking beam.

Pump two or three shots of grease into each fitting.

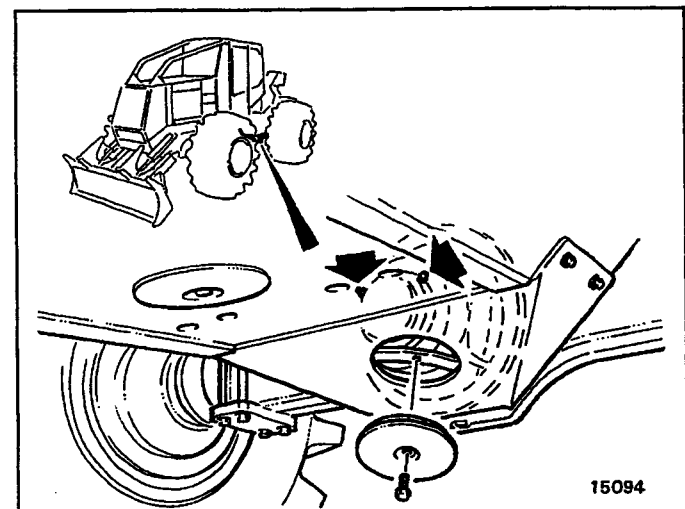


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Rear Axle

Grease fittings are reached by removing the access cover in the rear belly pan.

Pump two or three shots of grease into each fitting.



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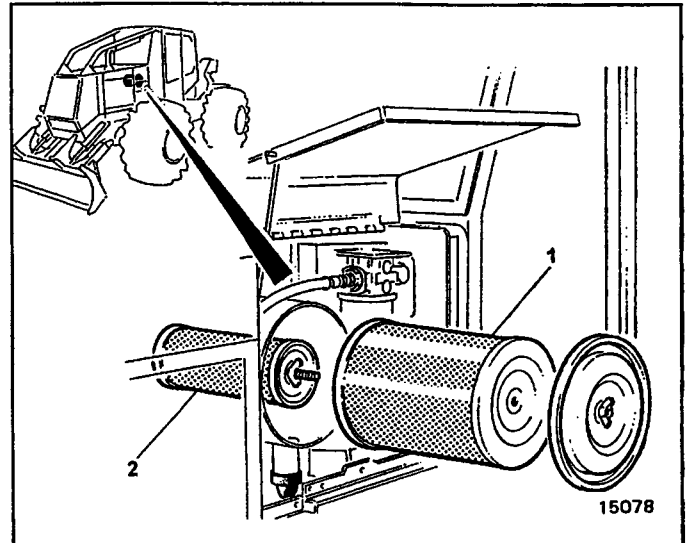
6.2 Maintenance Procedures

6.2.4 Maintenance 500 Hours

41. Change Air Filter Elements.

Change both the primary (1) and secondary (2) elements. Inspect the housing for damage.

When installing the cover, make sure the seal fits tightly.

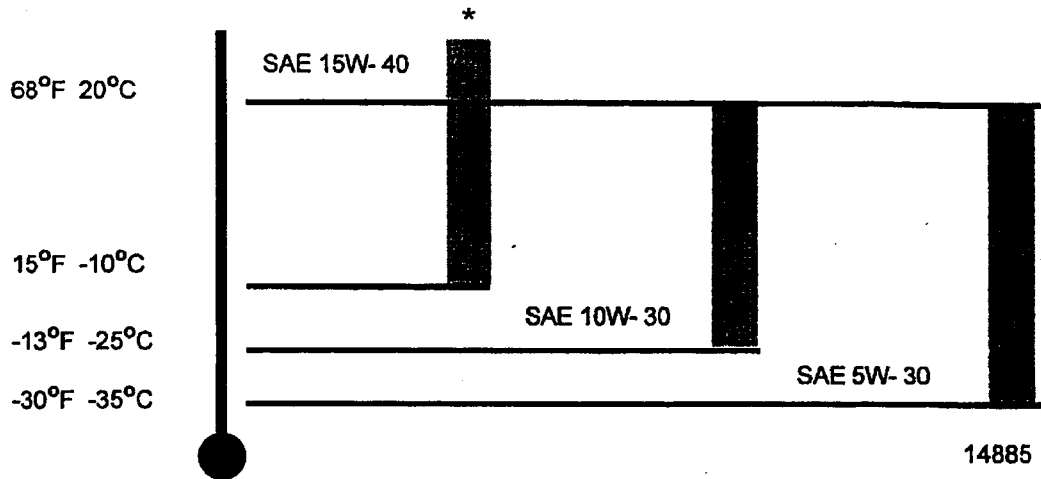


42. Check Radiator Hoses.

Check the radiator hoses for cracks or deterioration. Clamps must be tight, with no signs of leaking.

6.3 Fluids and Lubricants

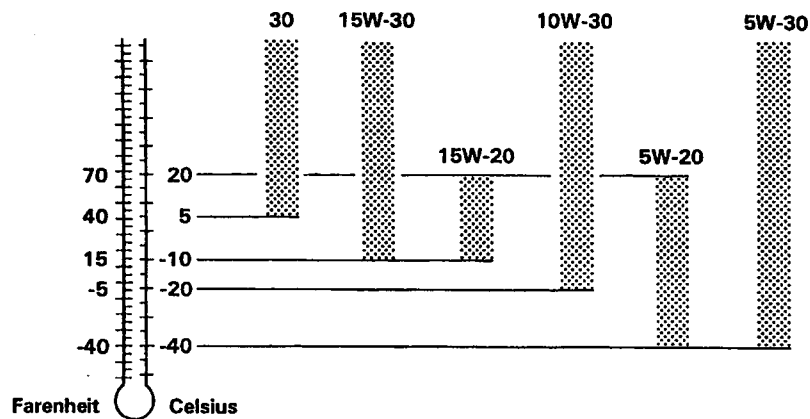
6.3.2 Engine Oil Viscosity



* Factory fill.

6.3.3 Powershift Transmission Oil Viscosity

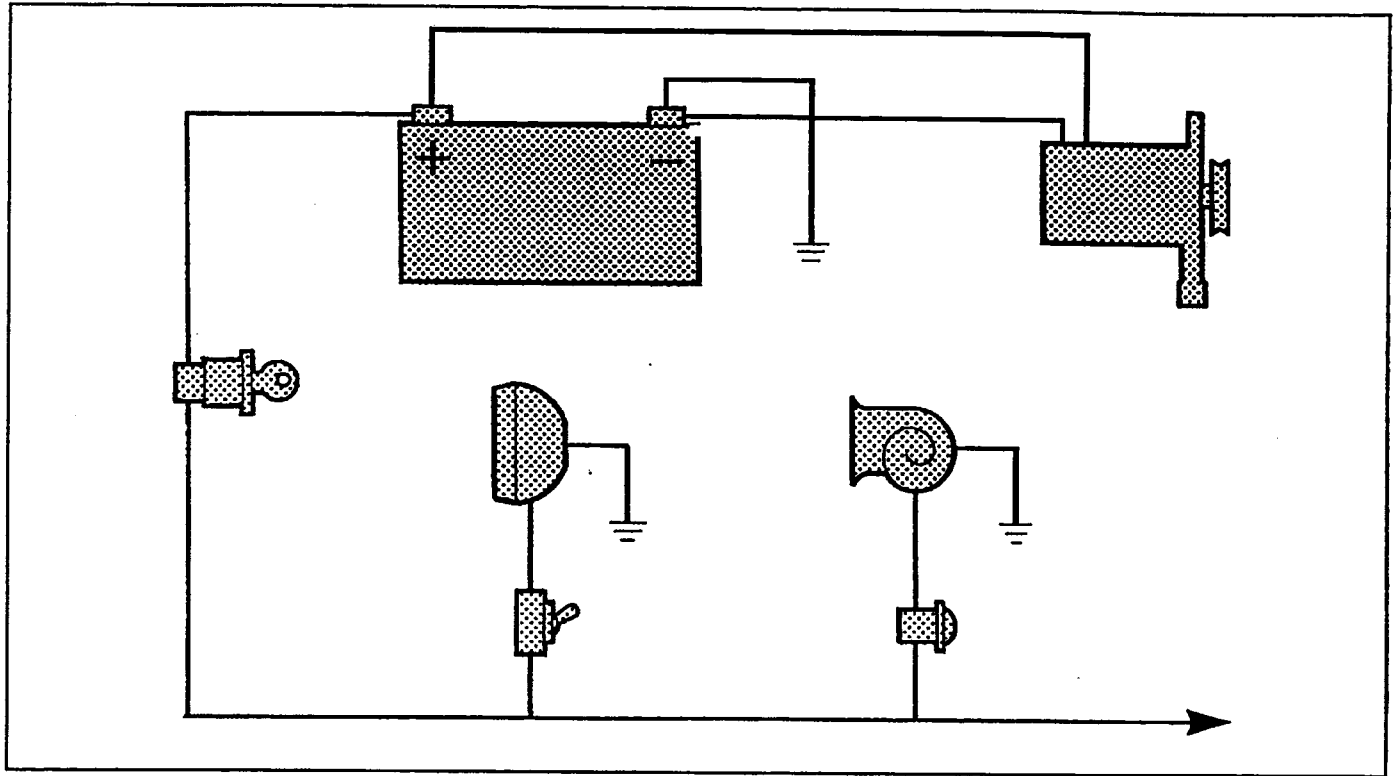
Factory Fill:



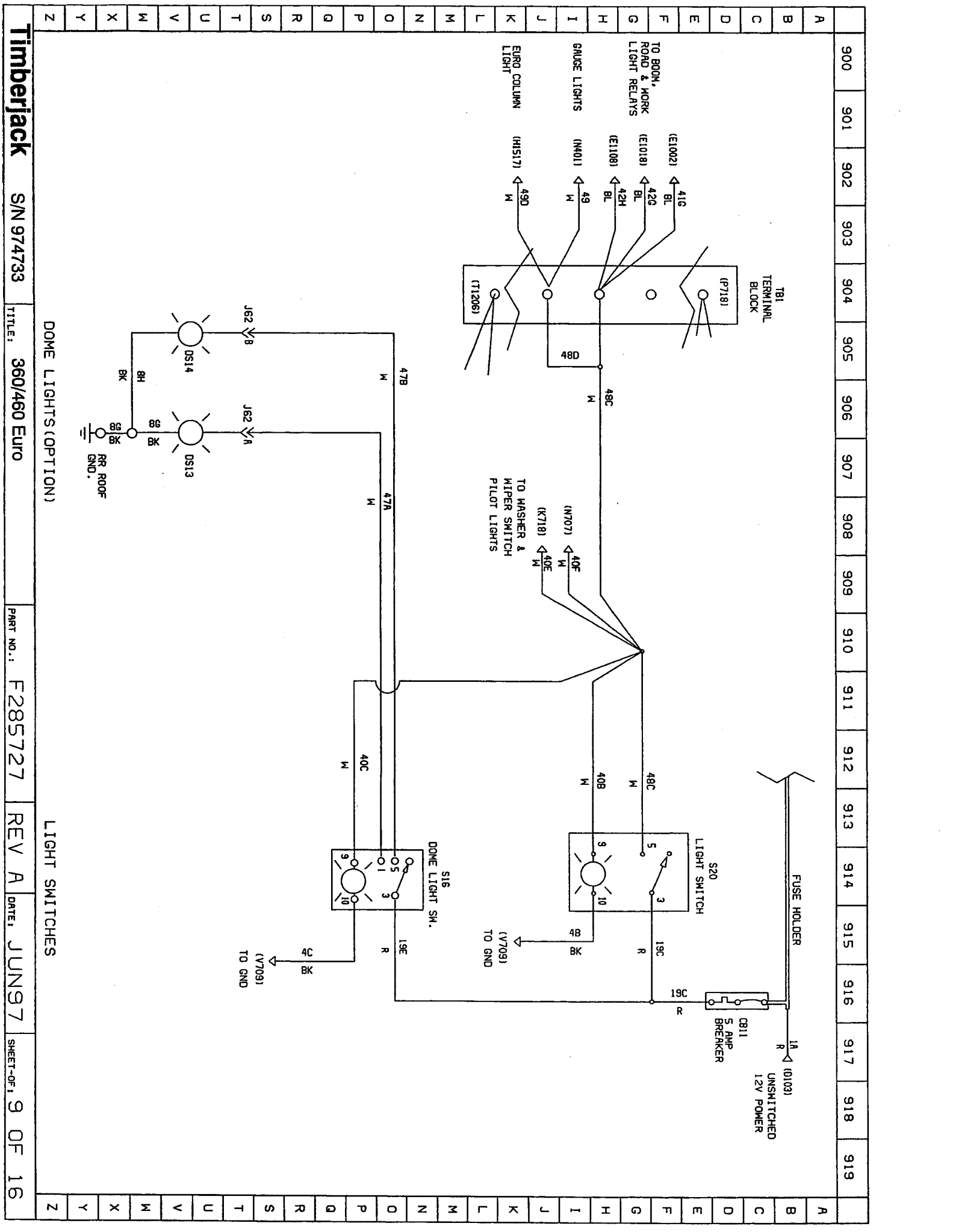
Summer
Winter

Esso Hydraul 56
Esso Hydraul 50

8. Electrical System



8.1 Electrical Schematic - F285727

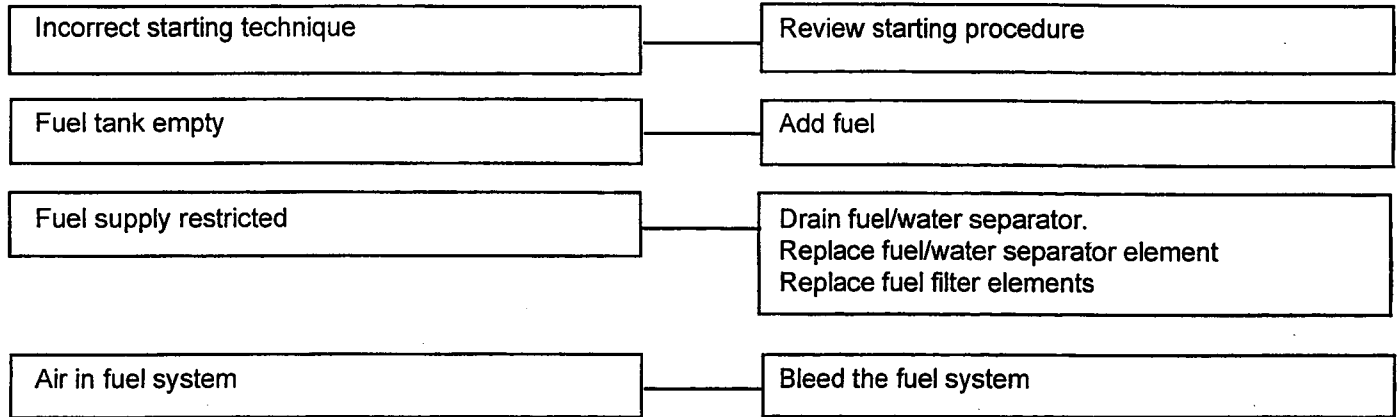


DOME LIGHTS(OPTION)

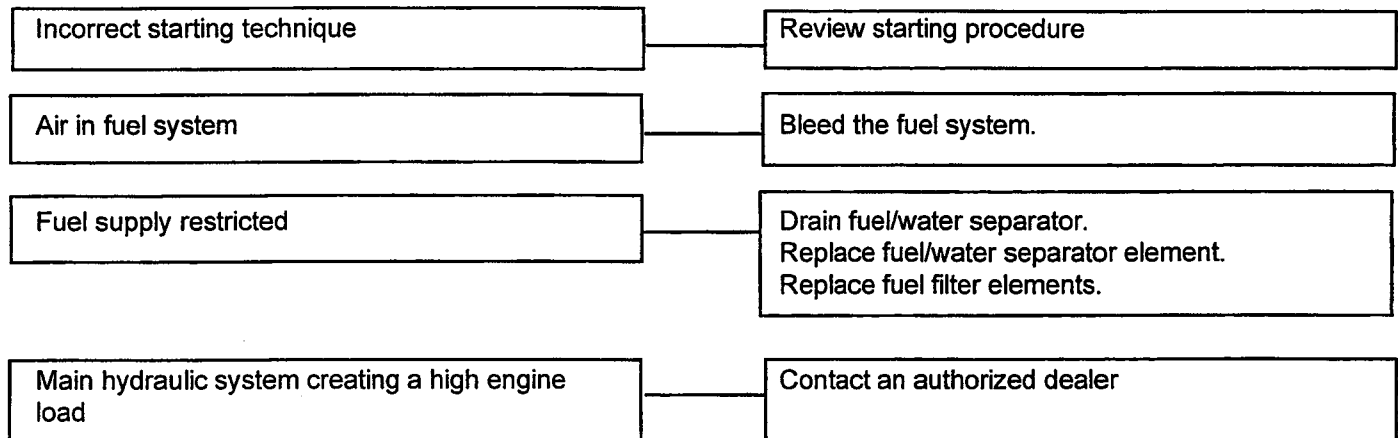
LIGHT SWITCHES

9.2 Engine

Engine cranks but will not start (No smoke from exhaust)



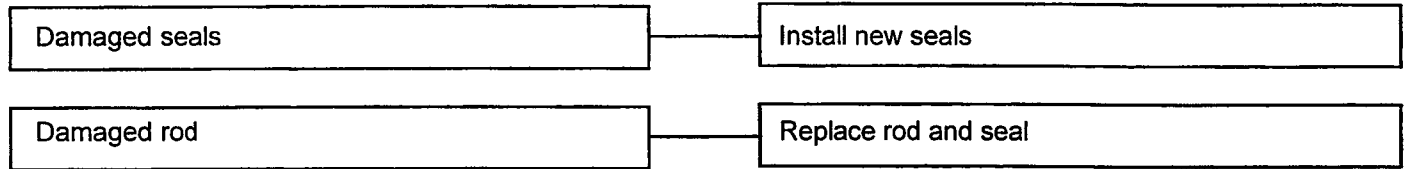
Engine cranks but will not start or hard to start (Exhaust smoke present)



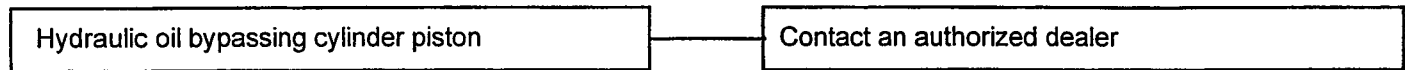
9.7 Hydraulic System

9.7.2 Hydraulic Cylinders

External leakage - at rod seal of cylinder

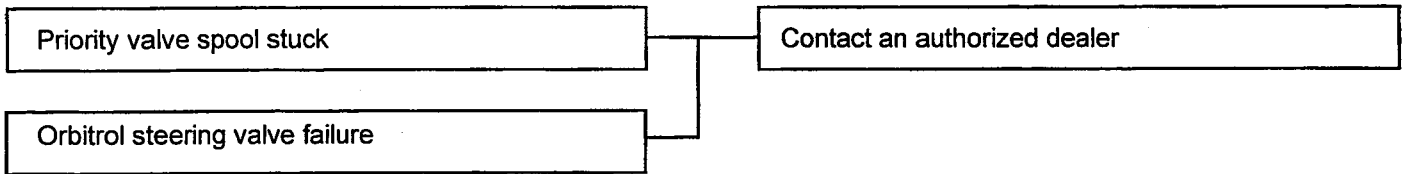


Internal leakage

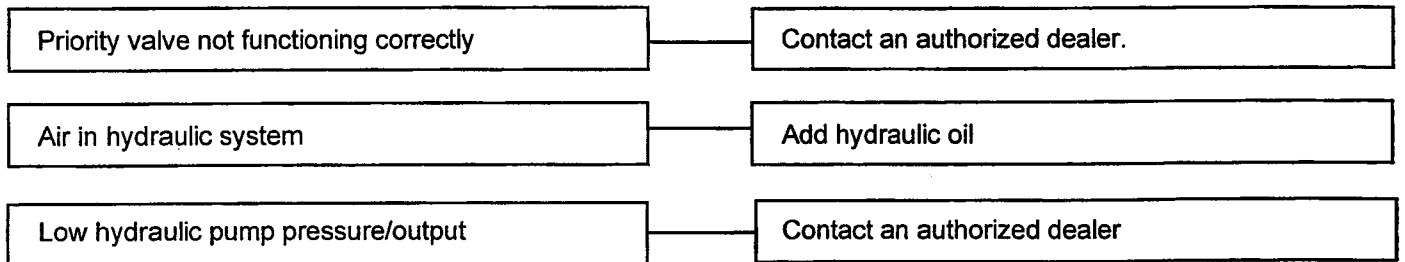


9.7.3 Steering

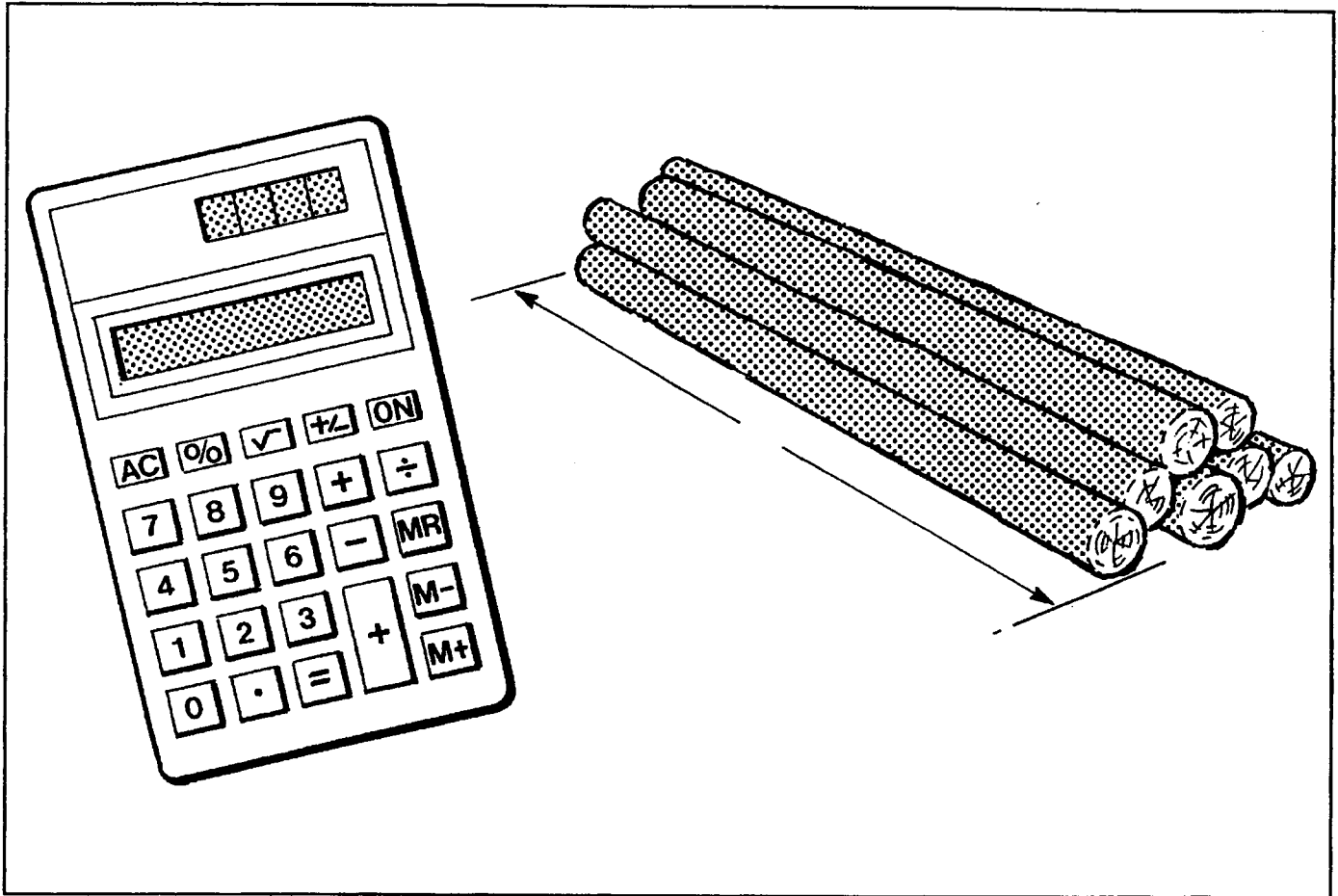
No response



Slow response



11. Miscellaneous



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