

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**

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NOTE:

Starting the engine in an extremely cold environment requires that the batteries are fully charged. To ensure this, remove and store the batteries in a warm place when the machine is parked for prolonged periods of time.

Always ensure that the battery terminals and cable clamps are clean and have proper contact when the batteries are reinstalled. Battery heater blankets or heater plates may also be used to maintain the charge of the batteries at a satisfactory level.

Engine Idling

Avoid unnecessary engine idling. During long idling periods, the engine coolant temperature will fall below the normal operating range, this can cause crankcase oil dilution and a rapid accumulation of sludge in the engine.

When prolonged engine idling is necessary, maintain the engine speed at or above 1200 r.p.m.

Stopping the Engine

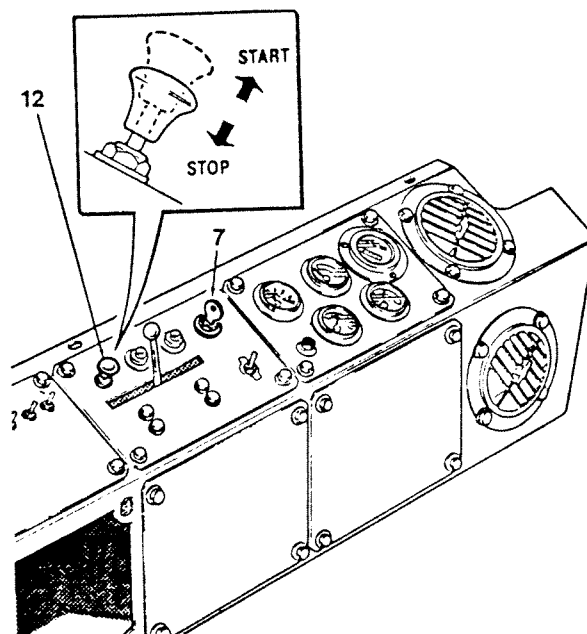
1. Stop the machine, lower the booms and rest the felling head on the ground. Throttle the engine down and let it idle for about two minutes.

IMPORTANT:

The turbo-charger is lubricated by the engine oil pump and the engine must be idled until the turbo-charger operating speed is reduced to idle level. Stopping the engine with the turbo-charger still operating at high speed may cause serious damage to its bearings due to lack of lubrication.

2. Push the engine shut-down switch (12) in. Once the engine has stopped, turn the ignition key (7) to OFF position.

3. Switch the main disconnect switch in the engine compartment to OFF position to disconnect the batteries.



STOPPING THE ENGINE
FIGURE 2-5

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! WARNING:

BEFORE LEAVING THE MACHINE UNATTENDED, ENSURE THAT THE ENGINE IS STOPPED AND THE ELECTRICAL CIRCUIT IS DISCONNECTED. ALSO, ENSURE THAT THE FELLING IMPLEMENT IS LOWERED TO REST ON THE GROUND, AND THE CAB DOOR IS CLOSED. FAILURE TO OBSERVE THESE SAFETY MEASURES CAN LEAD TO HAZARDOUS SITUATIONS WITH RISK OF PERSONAL INJURIES.

Operating the Track Drive

Since the track drive system is fully hydrostatic, the vehicle speed is determined by hydraulic flow and pressure to the drive motors.

NOTE

THE CAB DOOR MUST BE FULLY CLOSED WHEN OPERATING THE MACHINE. THE FELLER BUNCHER IS EQUIPPED WITH A DISCONNECT THAT AUTOMATICALLY CUTS OFF ALL HYDRAULIC PILOT PRESSURE WHEN THE DOOR IS OPENED.

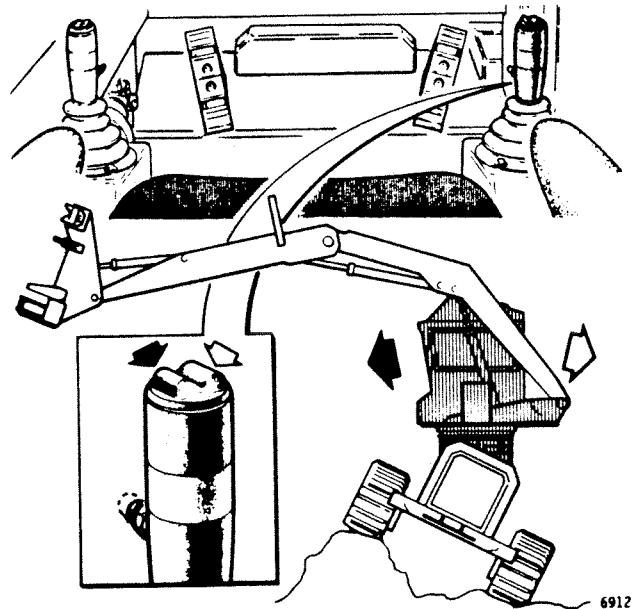
Vehicle movement is controlled by two foot pedals located at floor level in front of the operator, ref. Fig. 2-6.

Turntable Side Tilt

To tilt the turntable left or right, press the button AND the rocker switch on the right hand joystick as shown in fig. 2-24.

Holding the button in changes the function of the rocker switch to side tilt. Releasing the button changes the function back to accumulator arm control.

The side tilt may be used by itself or in conjunction with the forward tilt to level the operating platform.

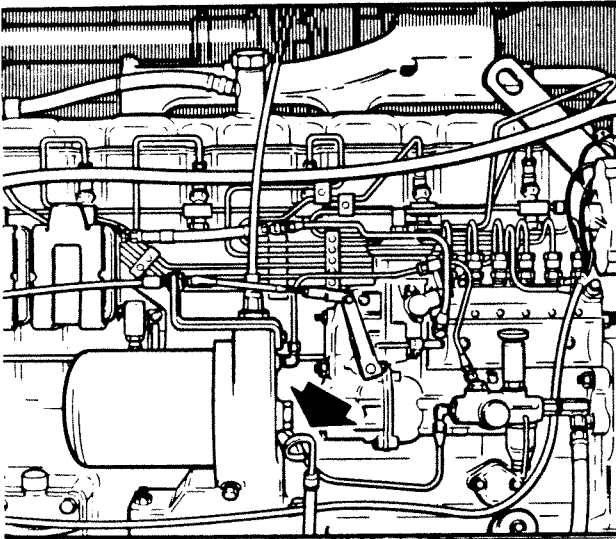


TURNTABLE SIDE TILT
FIGURE 2-24

Maintenance Procedures

ITEM 1.

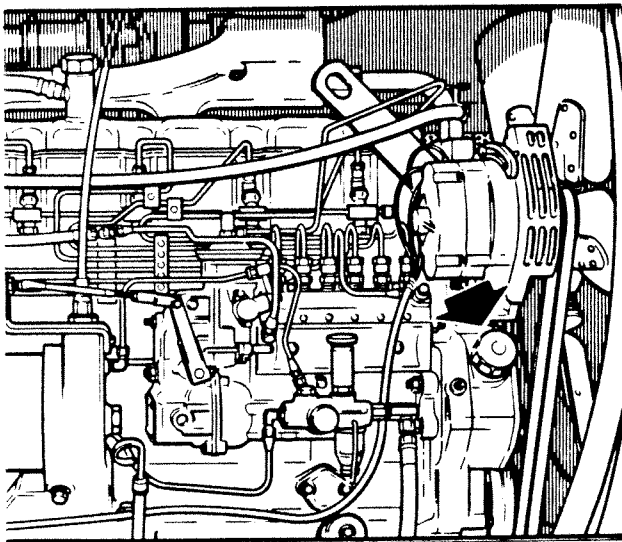
Check engine oil level daily before start-up. Add oil, if required, to bring the level up to "full" on the dipstick, ref. fig. 3-1.



ENGINE OIL DIPSTICK
FIGURE 3-1

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When replenishing the oil, refer to fig. 3-2, use the same type and grade as the engine already contains. DO NOT mix oil types.



ENGINE OIL FILL LOCATION
FIGURE 3-2

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NOTE:

Make sure the feller buncher is parked on level ground when checking the oil.

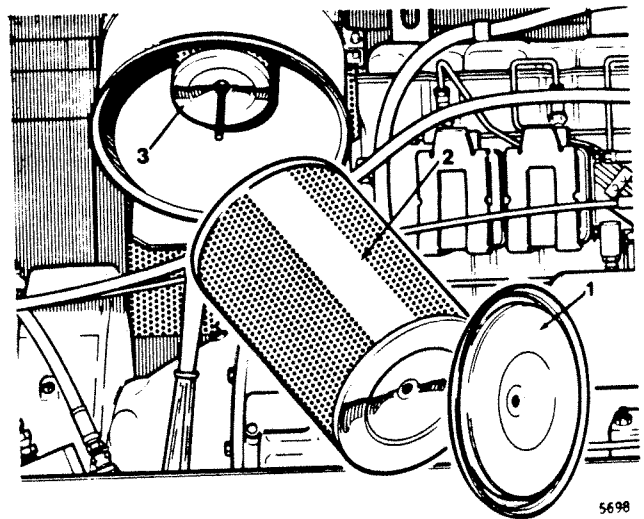
ITEM 2.

Check engine air cleaner, ref. fig. 3-3.

Remove the filter housing end cover and primary filter, (1) and (2). Clean the housing and, if necessary, also the element.

IMPORTANT:

Do not remove the secondary filter (3) unless it is damaged. This is a safety filter and should only be removed when the filters are changed.



ENGINE AIR CLEANER MAINTENANCE
FIGURE 3-3

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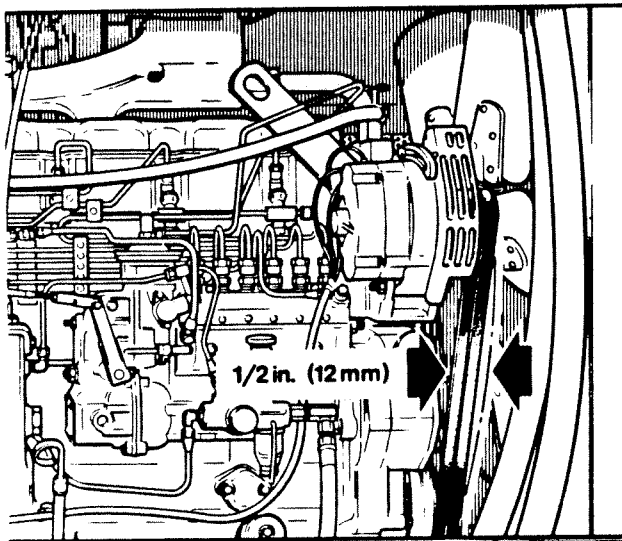
Visually inspect the condition of the primary element and, if required, clean it using compressed air or detergent and water.

When reinstalling the filter, ensure that the gasket is in good condition. A damaged gasket must be replaced to ensure proper filter function. Check the connections between the filter housing and the engine. All components must be undamaged and the joints sealed to prevent unfiltered air from entering the engine.

NOTE:

If new belts are installed, run the engine for about 15 to 30 seconds to seat the belts and then readjust the tension. Check and retension the belts after 1/2 hour and 8 hours operation.

Ensure that the adjustment and pivot bolts are tightened after each adjustment.



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**ENGINE FAN BELTS INSPECTION
FIGURE 3-27**

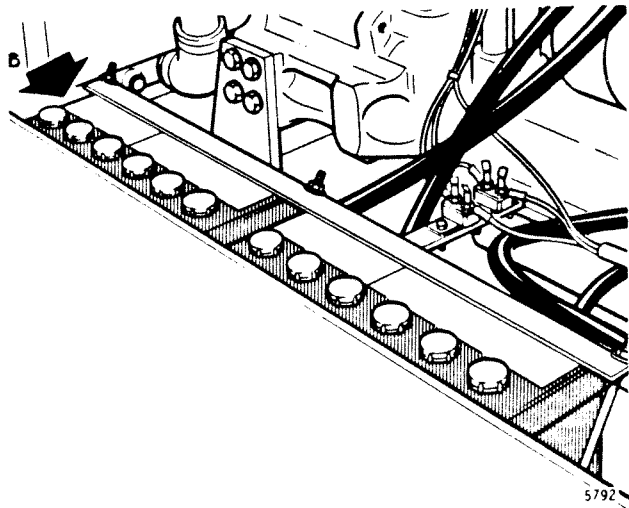
ITEM 29.

Check battery electrolyte level, ref. fig. 3-28. Clean the top of the batteries before removing the caps. Check that the fluid level in each cell is approximately 1/4 in. (6 mm.) above the plates. If required, replenish "dry" cells with distilled water. DO NOT overfill, allow enough room for the fluid to expand without flowing over when the battery temperature increases.

Do not add water to a battery in freezing weather unless the machine is operated at least 2 to 3 hours after filling to ensure adequate mixing of water and electrolyte.

Use distilled water only when replenishing the battery electrolyte. Rainwater or clean drinking water can be used if distilled water is not available; however, it is not recommended. Water of unknown quality SHOULD NEVER be used.

Before reinstalling the battery caps, check that the vent hole in each cap is free of dirt. With the caps installed, clean the battery terminals and coat both terminals and cable clamps with lithium grease or vaseline.



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**BATTERY ELECTROLYTE CHECK
FIGURE 3-28**

⚠ WARNING:

1. DO NOT SMOKE OR USE AN OPEN FLAME AS LIGHT SOURCE WHEN CHECKING THE BATTERY ELECTROLYTE LEVEL. COMBUSTIBLE FUMES ARE EMITTED FROM THE BATTERY AND CAN CAUSE AN EXPLOSION IF IGNITED.
2. THE BATTERY ELECTROLYTE IS ACIDIC AND WILL CAUSE PERSONAL INJURIES IF CONTACTED ON THE SKIN OR IN THE EYES. WEAR GOGGLES AND PROTECT EXPOSED SKIN TO AVOID ACCIDENTS.
3. DO NOT REPLENISH A BATTERY WITH ACID. ADDING ACID TO THE BATTERY ELECTROLYTE MAY CAUSE THE BATTERY TO EXPLODE.

NOTE:

The assembly grooves in links A and B are tapered to prevent disassembly in any way other than shown.

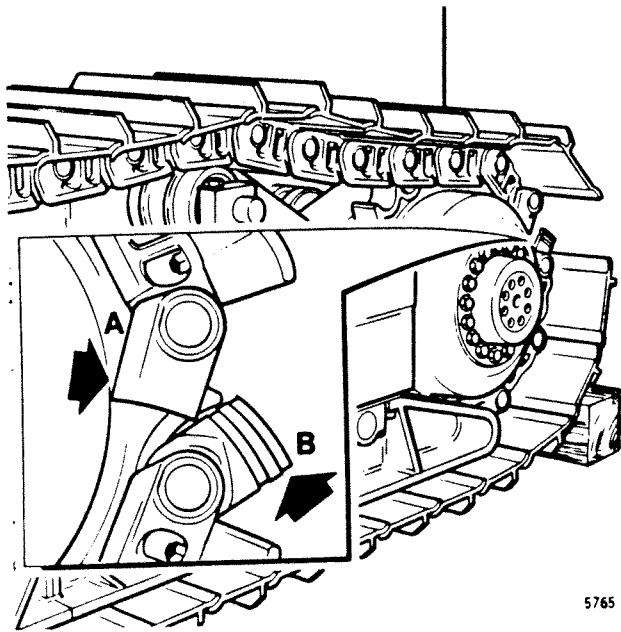
Once the chain is disassembled, slide the track off the top of the frame and either drive or lift the machine clear of the track.

Installation

Lay the track out on the ground ahead and in line with the track drive sprocket, then drive the feller buncher onto the chain.

Position the machine on the track and pull the long end up over the idler and top rollers so that the two ends are positioned as shown in figure 3-43. Place a support under the chain as shown.

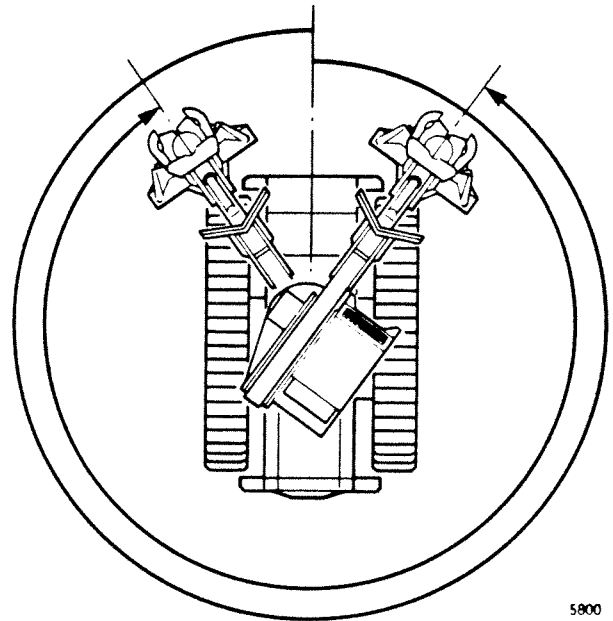
Slide assembly links A and B together and install the track shoe as shown in fig. 3-39.



DRIVE CHAIN ASSEMBLY
FIGURE 3-43

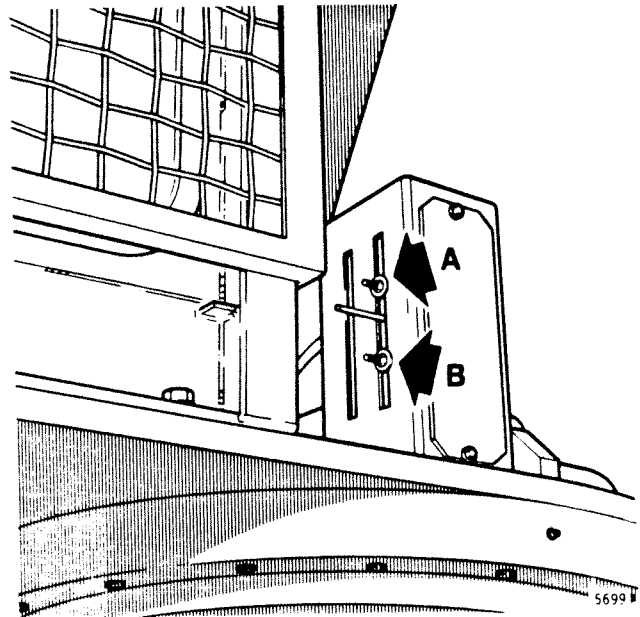
Adjusting Swing Warning System

Maintain the swing warning system so that the horn is actuated when the operating platform is swung approximately 280 degrees left or right from neutral, ref. fig. 3-44.



SWING WARNING ACTUATION
FIGURE 3-44

To adjust the warning system, loosen the nut securing the contact post A and/or B and reposition the post(s) as required. Make sure the post(s) is re-tightened when the adjustment is completed. Refer to figure 3-45.



SWING WARNING SYSTEM ADJUSTMENT
FIGURE 3-45

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