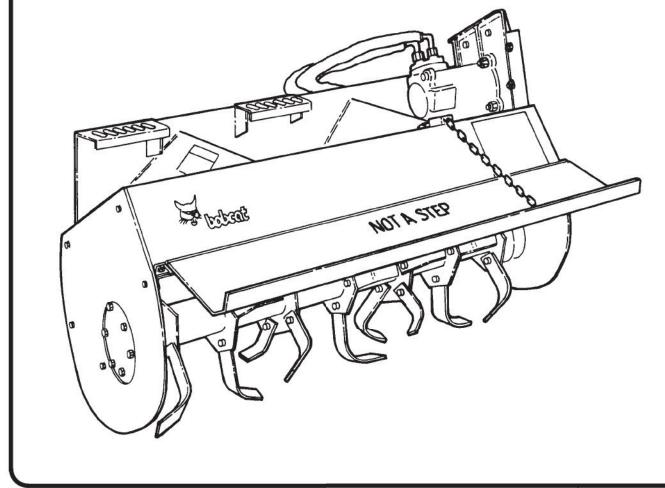


TILLER

52 INCH S/N 280100101 & Above 68 INCH S/N 054700101 & Above

Service Manual





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MAINTENANCE SAFETY

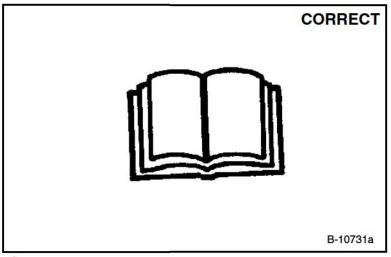


Instructions are necessary before operating or servicing machine. Read and understand the Operation & Ma intenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



- Never service attachments without instructions. See Operation & Maintenance Manual and Attachment Service Manual.
- Cleaning and maintenance are required daily.
- A Never service or adjust attachment with the engine running unless instructed to do so in manual.
- Always lower the attachment to the g round before lubricating or servicing.
- Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
- A Stop, cool and clean engine of flammable materials before checking fluids.
- ▲ Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
- ▲ Safety glasses are needed for eye protection from electrical arcs. battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.

MSW30-0805

ALPHABETICAL INDEX

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PREVENTIVE MAINTENANCE

HYDRAULIC SYSTEM

MAIN FRAME

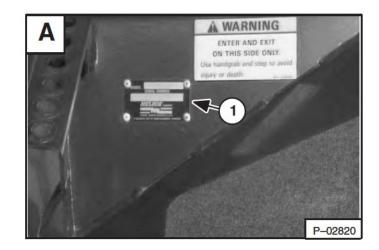
SPECIFICATIONS AND SCHEMATICS

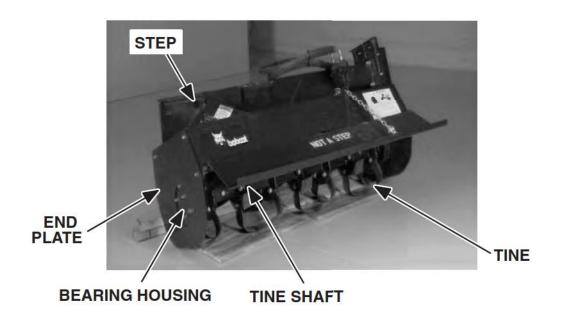
CALIFORNIA PROPOSITION 65 WARNING

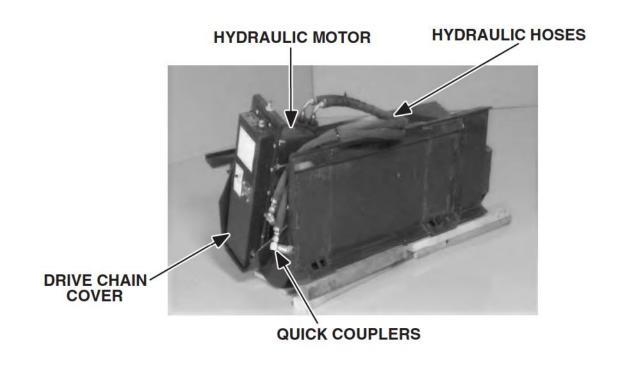
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

SERIAL NUMBER LOCATION

It is important to make the correct reference to the serial number of the Tiller attachment when making repairs or ordering parts. Early or later models (identifications made by serial number) may use different parts, or it may be necessary to use different procedures in doing a specific service operation. The Tiller serial number (Item 1) [A] is located on the top of the frame.







P-09150 P-02818

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PREVENTIVE MAINTENANCE



NSPECTION	Page Number
Daily Inspection	
25 Hour Inspection	10–10–3
300 Hour Inspection	10-10-3

WARNING

Instructions are necessary before operating or servicing machine. **Read Operation &** Maintenance Manuals, Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Failure to follow instructions cause injury or death.

W-2003-1289

Maintenance work must be done at regular intervals. Failure to do so can result in damage to the T iller. This service schedule is a guide for correct maintenance of the Tiller.

Daily Inspection

- 1. Clean the Tiller attachment to keep it free of material build up. Clean the debris wrapped around the tine shaft and tines.
- 2. Check all nuts, bolts, shield and guards for tightness.
- 3. Check safety signs (decals) and safety treads for damage. Replace if damaged, clean if soiled.
- 4. Check all hydraulic hoses and fittings for leaks or damage.
- 5. Check for loose or damaged parts.

25 Hour Inspection

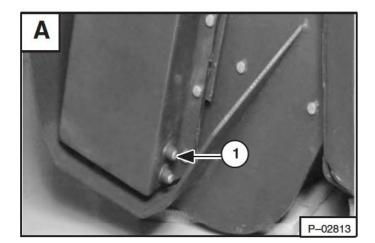
- 1. Adjust the tension of the drive chain. (See Page 10-30-1.)
- 2. Check Tiller tines for bent or worrtines. Replace the tines as needed.

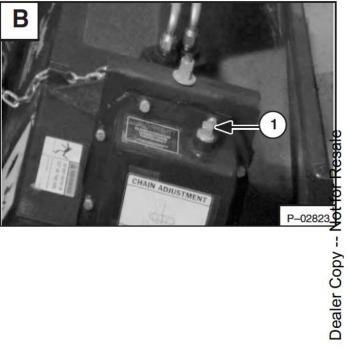
300 Hour Inspection

Put the Tiller on the ground so the chaincasecover is level with the ground.

Remove the check plug (Item 1) [A] to check gear lube level. If the gear lube does not come out the check plug hole, remove the fill plug (Item 1) [B] and add 90W gear lube until it comes out the check plug hole (Item 1) [A].

Install and tighten the check and fill plugs.





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HYDRAULIC SYSTEM

HYDRAULIC MOTOR	Page Number
Assembly	10-20-9
Disassembly	
Hydraulic Motor Timing	10-20-11
Inspection	10-20-9
Parts Identification	10-20-6
Removal And Installation	10-20-3

HYDRAULIC SYSTEM

HYDRAULIC MOTOR

Removal And Installation

IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

I-2003-0888

Remove the cover and drive chain. (See Page 10–30–1.)

Loosen the two set screws on the chain sprocket [A].

Remove the sprocket bolt [B].

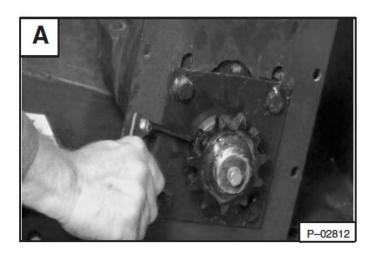
Installation: Tighten the bolt to 25–26 ft.–lbs. (34–38 Nm) torque.

Remove the chain sprocket [C].

Mark the hydraulic hoses for correct installation. Disconnect the hydraulic hoses from the motor [D].

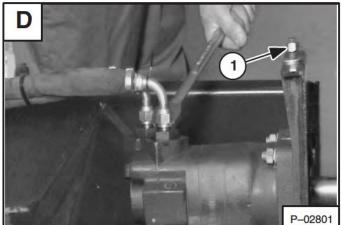
Remove the adjustment nut (Item 1) [D].

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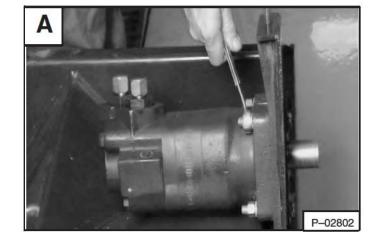


HYDRAULIC MOTOR (Cont'd)

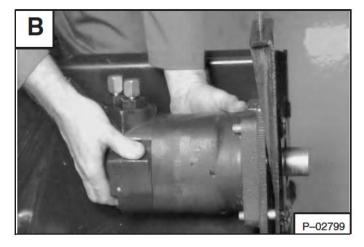
Removal and Installation (Cont'd)

Remove the mounting nuts and lock washers [A].

Installation: Tighten the nuts to 65–70 ft.–lbs. (88–95Nm) torque.



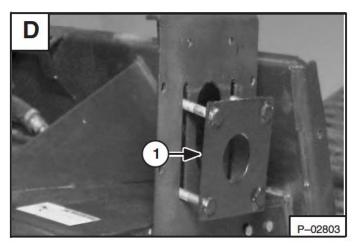
Remove the hydraulic motor from the mounting frame[B].



Installation: Put silicone sealant in the slotted holes on the motor mounting plate/bolt assembly [C].



Remove the mounting plate/bolt assembly (Item 1) [D].



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