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Owatonna

Operator's Manual

330 Skid Steer

Loader

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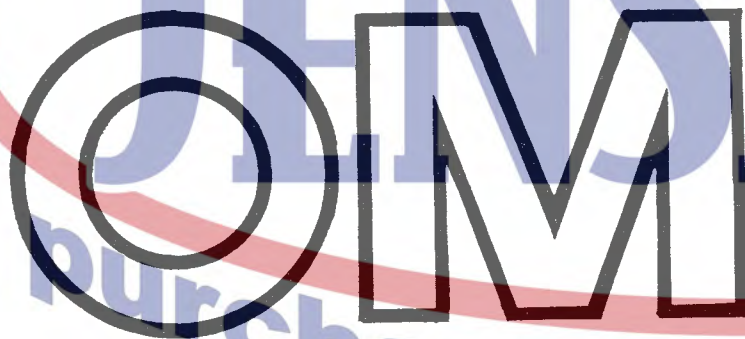
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**330
LOADER**

Operator's Manual



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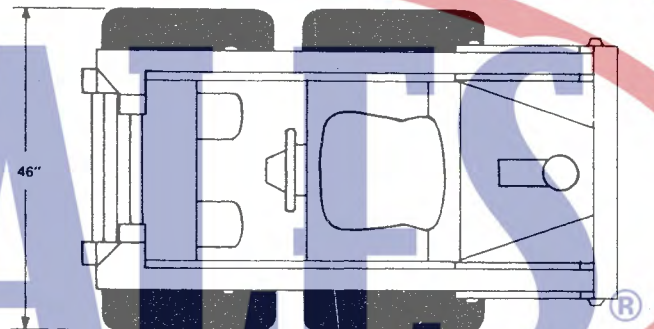
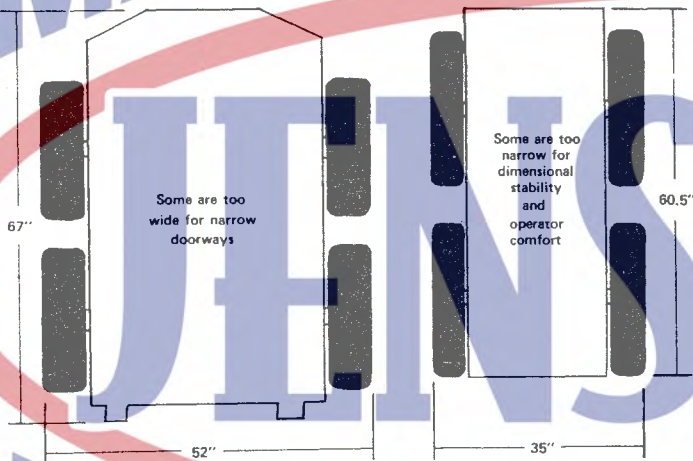
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OMC 330 EXCELS IN DIMENSIONAL STABILITY AND COMFORT



SPECIFICATIONS

Length (without bucket) 74"
 Width (with 27 x 8.50 - 15 tires) 46"
 Height 54 1/2"
 Dumping Height (pin center) 87"
 Shipping Weight 2368 lbs
 Capacity Load rating is 800 lbs. SAE rating with no counter weights. Bucket capacities vary with applications.
 Performance Turning radius 360° in own length; Travel speed is 0 to 5 mph (forward and reverse)
 Drive Hydrostatic
 Power Source Onan 25 hp. two cylinder engine; 12 volt electrical system; dry type air cleaner.
 Sprockets Steel cut and hardened for long life.
 Hydraulic System 8 gpm. pump at 3000 rpm.; 2' lift and tilt cylinders.
 Steering One lever controls forward and reverse, left or right
 Fuel Tank 11 U.S. Gallons
 Seat Belt Standard
 Seat Upholstered and adjustable
 Accessories Light Kit, Overhead Guard, Utility Fork, Buckets 6 cubic feet and 10 cubic feet.



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STORING FUELS

The importance of proper fuel storage cannot be stressed too highly. Many engine difficulties can be traced to dirty fuel and fuel that has been in storage too long. Keep dirt, scale, water, and other foreign matter out of the fuel. Avoid storing fuel for a long period of time.

Store fuel in a convenient place, outside of buildings.

FILLING THE FUEL TANK

The fuel tank is located in the rear of the machine on the right side. Clean the filler neck area, (5 FIGURE 18), before removing cap.

Fill the tank at the end of each day's operation to prevent moisture from collecting and freezing in the fuel system.

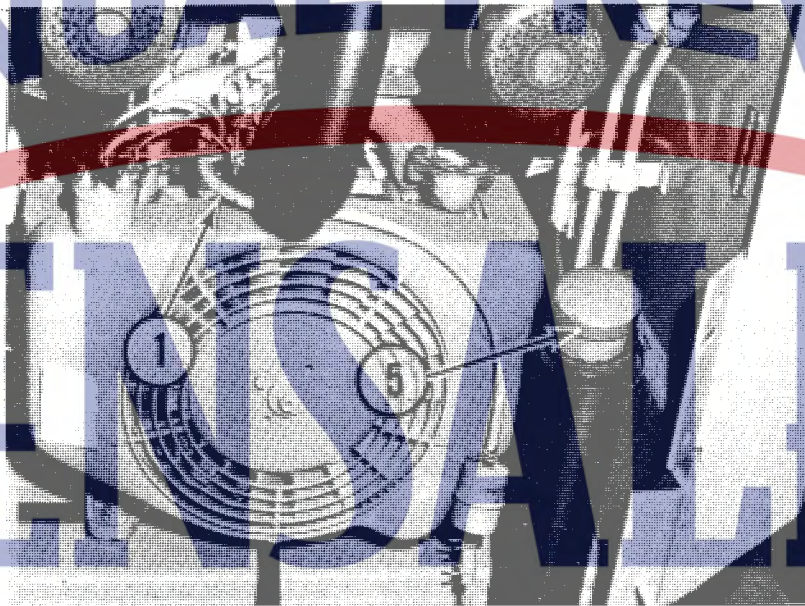


FIGURE 18

LUBRICANTS

Effective use of lubricating oils, and greases is perhaps the most important step towards low upkeep cost, long engine life, and satisfactory service. Use only lubricants specified in this section. Apply them at intervals and according to the instructions in the lubrication section.

ENGINE LUBRICATING OILS

For gasoline powered engines, oil having MS or MS-DM classification may be used. Select only recognized brands of oils furnished by a reliable manufacturer and supplier. Do not mix brands when adding oil to the engine as some brands of oil are not compatible.

Depending on the highest expected prevailing temperature for the fill period, use oil of viscosity as shown in the following chart:

ENGINE OIL

Air Temp

Above 90°
30° to 90°
0 to 30°
Below 0°

Single Viscosity Oil

SAE 50
SAE 30
SAE 10W
SAE 5W

Multi-Viscosity Oil

Not recommended
Not recommended
Not recommended
Not recommended

BRAKE ADJUSTMENT

1. To adjust the brakes, jack up the wheel. The brake adjusting nuts are located behind the slots at the bottom of the backing plate (3 FIGURE 54). Tighten the adjusting nuts by raising up on the adjusting tool until the linings drag all the way around the drum; then back off the nuts three notches. This will provide a free wheel with no drag.

BLEEDING THE BRAKES

If the hydraulic brake lines have been removed, the hydraulic brake system must be bled manually. Loosen the bleeder screw (located in the wheel cylinder) (4 FIGURE 55) one turn. Engage brake hand lever and allow air to escape out of the bleeder screw. Repeat this procedure until bubbles no longer appear at the bleeder screw. Close the bleeder screw securely.

During the bleeding operation, make sure the brake fluid in the master cylinder does not fall below the one-half full level.

After bleeding is completed, make sure the master cylinder reservoir is filled, (2 FIGURE 56) and the filler cap is securely in place.

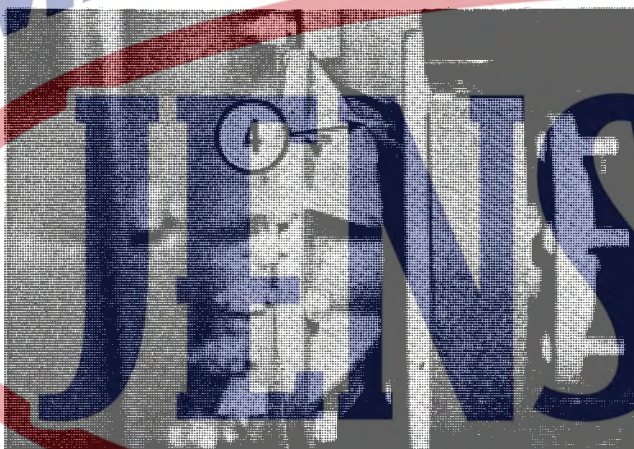


FIGURE 55

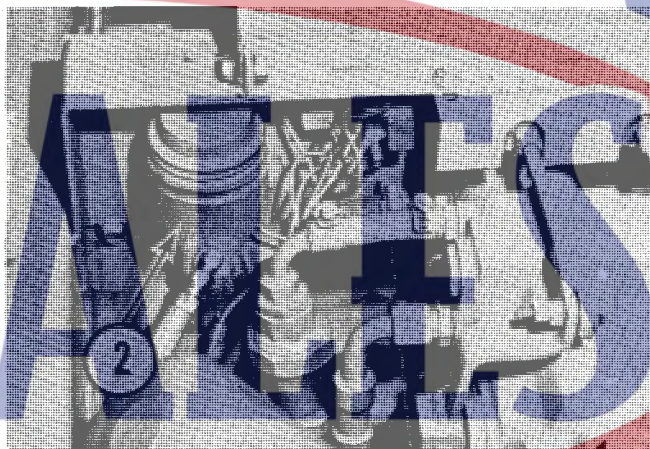


FIGURE 56

STORAGE

These suggestions for storing your loader, or removing it from storage, will help to prevent excessive deterioration.

PREPARING THE LOADER FOR STORAGE

With the engine warm, drain the crankcase, replace the filter element, and fill crankcase with new oil.

IMPORTANT: Do Not store equipment with dirty engine oil, transmission oil, or hydraulic oil.

Clean the air cleaner element.

Drain fuel tank. Add two ounces of inhibitor to tank, and add one or two gallons of fuel. Start engine and run at fast idle to draw inhibitor-fuel mixture through lines, fuel pump, and carburetor. Run engine 3 to 5 minutes. Cycle all hydraulic functions several times. Shut off engine and allow to cool for a period of time equal to the running time outlined above.

CAUTION: Inhibitor is a volatile compound. All openings must be sealed, or capped after adding inhibitor. Keep container closed when not in use.

Wash the exterior and painted surfaces using clear cold water and wipe dry with a soft cloth.

AN OUNCE OF CARE CAN PREVENT A POUND OF CURE

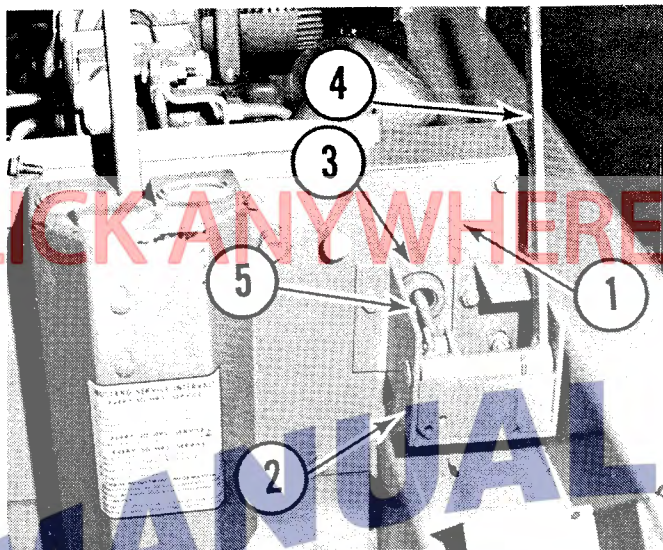


FIGURE 92

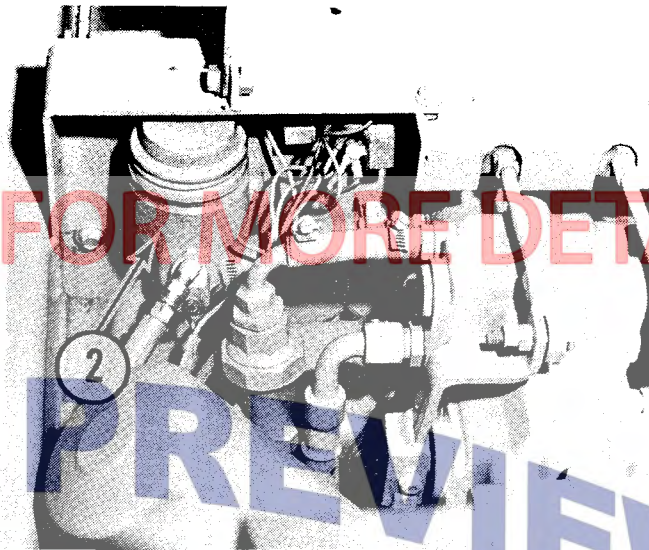


FIGURE 93

BRAKE INSTALLATION

(See page 58 (Figure 91) for Brake Schematic)

1. Block machine up and remove rear wheels.
2. Remove left vertical panel and install new panel (1 FIGURE 92), control box (2 FIGURE 92) and master cylinder (3 FIGURE 92) and (2 FIGURE 93).
3. Install the handle assembly, (4 FIGURE 92) with the push rod (5 FIGURE 92) into the master cylinder and the 3/8" - 24 locknut against the master cylinder piston.
4. Drill 7/16" holes in the sides of machine 4" down from top and 12 1/2" over from the edge of inspection cover (1 Figure 94). Then drill 7/16" holes 4" and 8" down from top and 14" over from edge of inspection cover. (Figure 95)
5. Put in bulkhead elbow fitting (1 FIGURE 94).
6. Bolt on brake cylinders (1 Figure 95) and install lines from cylinders to bulkhead (2 Figure 95).
7. Install crossover lines, long line to right side (1 Figure 96), short line to left side, (2 Figure 96) and put in tee (3 Figure 96).
8. Put elbow in top hole of master cylinder, (1 Figure 97) and install hose from elbow to tee. (2 Figure 97)
9. Bolt on the outside line covers (3 Figure 98).

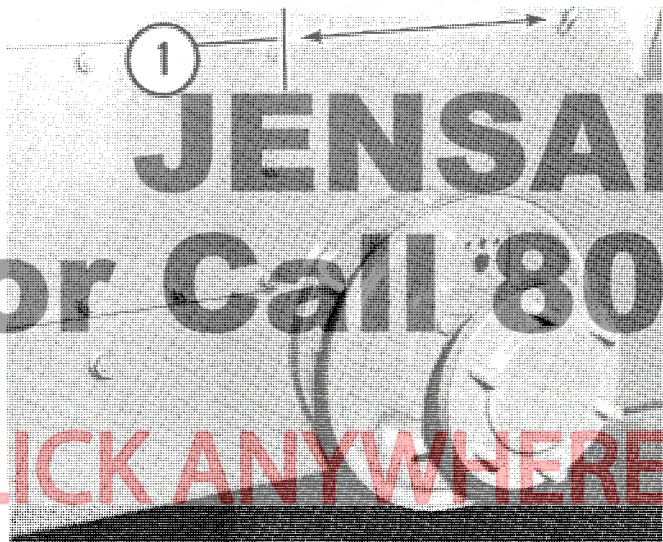


FIGURE 94

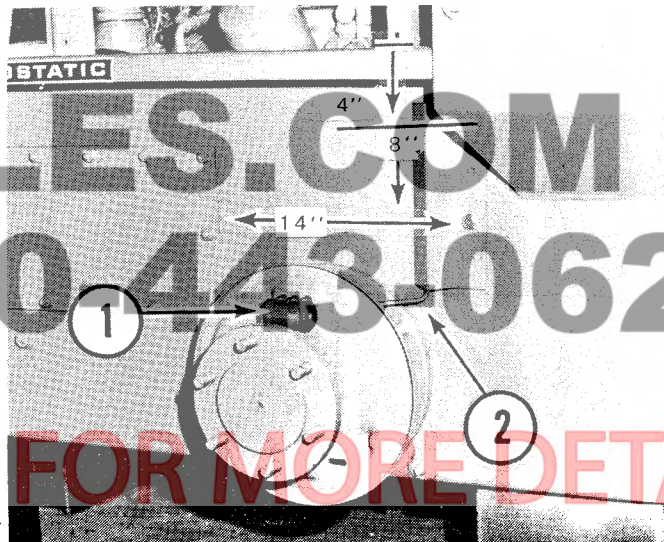


FIGURE 95

10. Insert the adjustment nuts and bolt assemblies into tube (slots out), (1 Figure 98). Put plunger pins in position in cylinders, (2 Figure 98).

11. Connect shoes together with the bottom spring and install on to the adjusting bolt assembly and plunger pins. (1 Figure 99) Then using a tool to stretch the top spring, connect the top of shoes together (1 Figure 100).

12. Put on the brake drum (1 Figure 101), then put on wheel spacer (not shown) and hold with 2 lug bolts. Adjust brakes and bleed lines as per instructions on page 29 and 30.



FIGURE 96



FIGURE 97



FIGURE 98



FIGURE 99



FIGURE 100



FIGURE 101