2702RD/2902RD
3402RD/3602RD
CRAWLER
EXCAVATOR

OPERATOR'S
MANUAL

PART #000-59991

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Mustang 2702RD, 2902RD, 3402RD and 3602RD Compact Excavator Operator Manual

Document type: Operator Manual (operation, controls, safety and routine maintenance)

Brand: Mustang

Models: 2702RD, 2902RD, 3402RD and 3602RD

Machine: Compact Excavator

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Main contents

- INTERNATIONAL SYMBOLS
- 1 GENERAL INFORMATION
- 2 SAFETY INFORMATION
- 3 OPERATION
- Digging
- Grading

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Sample pages follow. Full manual: machinecatalogic.com

GENERAL INFORMATION

INTRODUCTION

The information in this Operator's Manual was written to give the owner/operator assistance in preparing, adjusting, maintaining and servicing the Crawler Excavator. More importantly, this manual provides an operating plan for safe and proper use of the machine. Major points of safe operation are detailed in Section 2–Safety Information.

The Mustang Manufacturing Company asks that you read and understand the contents of this manual COMPLETELY and become familiar with your new machine BEFORE attempting to operate it. Consult your Mustang Dealer to obtain extra manuals, or manuals in other languages.

Throughout this manual, information is provided which is set in *italic* type and introduced by the word **NOTE** or **IMPORTANT**. Be sure to read carefully and comply with the message. Following this information will improve your operating and maintenance efficiency, help you to avoid breakdown and damage, and extend the machine's life.

Do not use this machine for any application or purpose other than those described in this manual. If the machine is to be used with special attachments or equipment other than those approved by MUSTANG, consult your MUSTANG Dealer. Any person making unauthorized modifications is responsible for the consequences.

The use of this equipment is subject to certain hazards that cannot be eliminated by mechanical means, but only by exercising intelligence, care and common sense. Such hazards include, but are not limited to, hillside operation, overloading, instability of the load, poor maintenance and using the equipment for a purpose for which it is not intended or designed.

It is essential to have competent and careful operators, who are not physically or mentally impaired, and who are thoroughly trained in the safe operation of the equipment and the handling of loads. It is recommended that the operator be capable of obtaining a valid motor vehicle operator's license.

MUSTANG Manufacturing Company reserves the right to make changes and improvements in the design and construction of any part without incurring the obligation to install such changes on any unit previously delivered.

Our Dealer network stands by to provide you with any assistance you may require, including genuine MUSTANG service parts. All service parts should be obtained from your MUSTANG Dealer. Give complete information about the part and include the model and serial number of your machine. Record the serial number in the space provided on this page, as a handy reference.

Purchased From: _____

Date of Purchase: _____

Model No.: _____

Serial No.: _____

SERIAL NUMBER LOCATION

The serial plate is located on the inside cab wall next to the throttle lever (Figure 1-1).

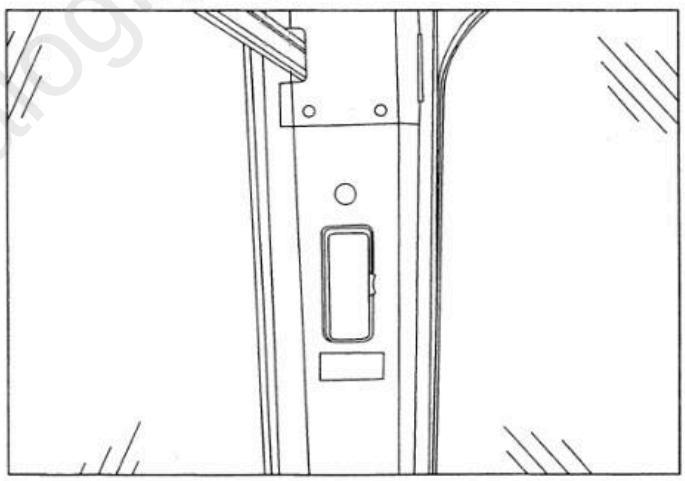


Figure 1-1. Serial Number Location

NOTE: All references to Left-hand or Right-hand are determined from sitting in the operator's seat and facing forward.

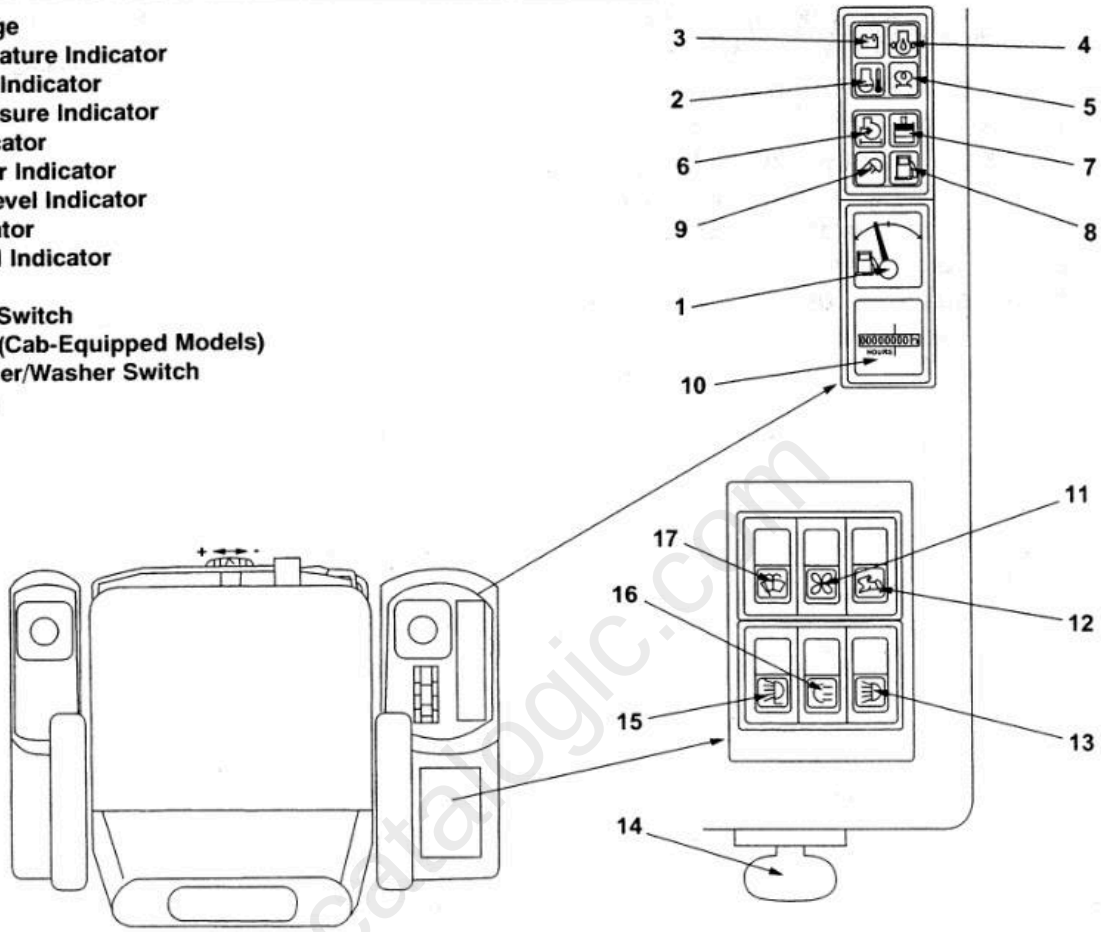
IMPORTANT! *Keep these instructions with the machine for future reference.*
If the machine changes ownership, be sure this manual accompanies the equipment.

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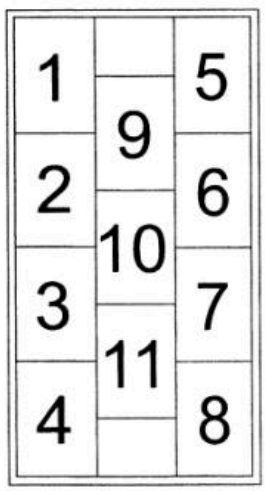
Console Controls

1. Fuel Level Gauge
2. Coolant Temperature Indicator
3. Battery Voltage Indicator
4. Engine Oil Pressure Indicator
5. Glow Plug Indicator
6. Engine Air Filter Indicator
7. Hydraulic Oil Level Indicator
8. Low Fuel Indicator
9. Work Lights ON Indicator
10. Hour Meter
11. 2-Speed Travel Switch
12. Heater Control (Cab-Equipped Models)
13. Windshield Wiper/Washer Switch
14. Ignition Switch



Fuse Panel

1. Socket Chassis (30 Amp)
2. Changeover Valve (10 Amp)
3. Not used
4. Lights, Fuel Gauge (15 Amp)
5. Not used
6. Fuel Shut-off Solenoid (30 Amp)
7. Heater, Horn (10 Amp)
8. Windshield Wiper/Washer Motor (10 Amp)
9. Lighting Switch, Instrument Panel (10 Amp)
10. Fuel Pump (optional)
11. Overdrive, Drive Lever (10 Amp)



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Excavator Boom Slewing

⚠ WARNING

Always ensure adequate stability when working with the machine, particularly when working with equipment slewed to the side. Changing the working equipment alters the weight and stability of the machine.

The excavator boom can be slewed 45° to the right and 80° to the left from the basic front position. This allows excavation of trenches along walls, fences, etc.

Digging

OPTIMAL STABILITY WHEN DIGGING

- Use the dozer blade to support the excavator on the ground.
- Never dig under the machine. Support the walls properly when excavating or working close to trenches.

⚠ WARNING

Always ensure adequate stability when working near trenches. Be aware of conditions that could cause the earth to collapse resulting in risk of injury or death.

- To obtain maximum digging performance, avoid fully extending the excavator arm. Excavate using long, flat pulling movements of the arm (Figure 3-12).

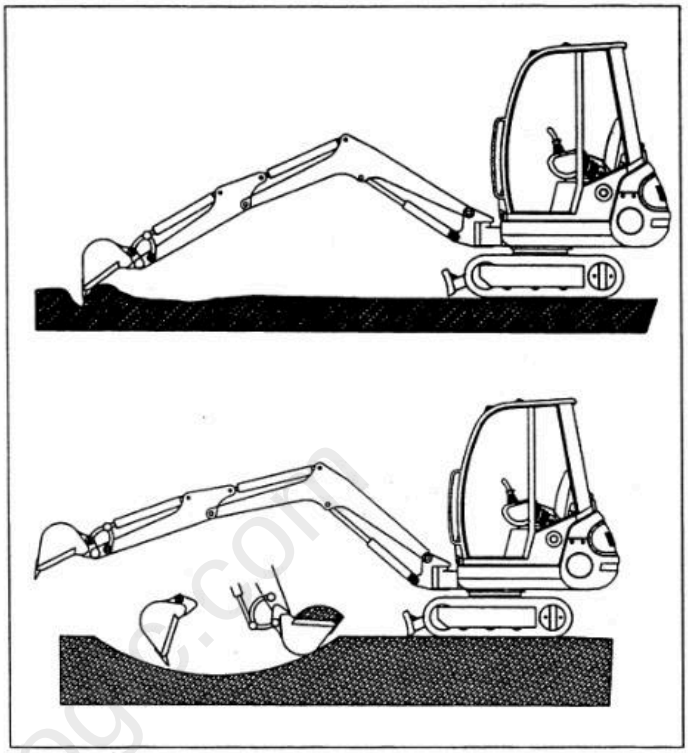


Figure 3-12. Proper Excavating

Grading

- The boom must be fully raised and the bucket rolled in (up) when grading and backfilling.
- When grading, the material may be pushed away to the front or to the side.
- Raise the dozer blade slightly if excessive resistance occurs.

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⚠ WARNING

Hydraulic reservoir is under pressure. Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes and cause severe injury.

Checking Hydraulic Oil Level

1. Position the machine on a level surface.
2. Fully extend the bucket and boom as shown (Figure 4-10). Lower bucket and dozer blade to the ground. Turn off the engine.
3. Raise the hydraulic valve cover to expose the hydraulic oil level indicator (Figure 4-10).
4. Check the hydraulic oil level indicator. Oil level should be between black and red marks on sight glass. If hydraulic oil is required, proceed to step 5.
5. To expose the hydraulic oil cap, open the hydraulic valve cover. (Figure 4-10).
6. Slowly open the cap to relieve pressure (Figure 4-11).
7. Add hydraulic oil until oil level is between red and black marks on indicator (Figure 4-10).
8. Re-install hydraulic tank cap and tighten securely.
9. Start engine and let idle for a few minutes.
10. Check hydraulic functions. Recheck hydraulic oil level.
11. Close hydraulic valve cover.

Changing Hydraulic Oil

1. Position the machine on a level surface.
2. Fully extend the bucket and boom. Lower bucket and dozer blade to the ground (Figure 4-10). Turn off the engine.
3. To expose the hydraulic oil cap, open the hydraulic valve cover (Figure 4-10).
4. Slowly open the cap to relieve pressure (Figure 4-11). Remove cap and clean strainer of any debris.
5. Open the drain plug (Figure 4-11) and drain oil into a suitable container. Re-install drain plug and tighten securely.

IMPORTANT: Always dispose of hydraulic fluids according to local regulations or take to a recycling center for proper disposal. DO NOT pour fluids onto the ground or down a drain.

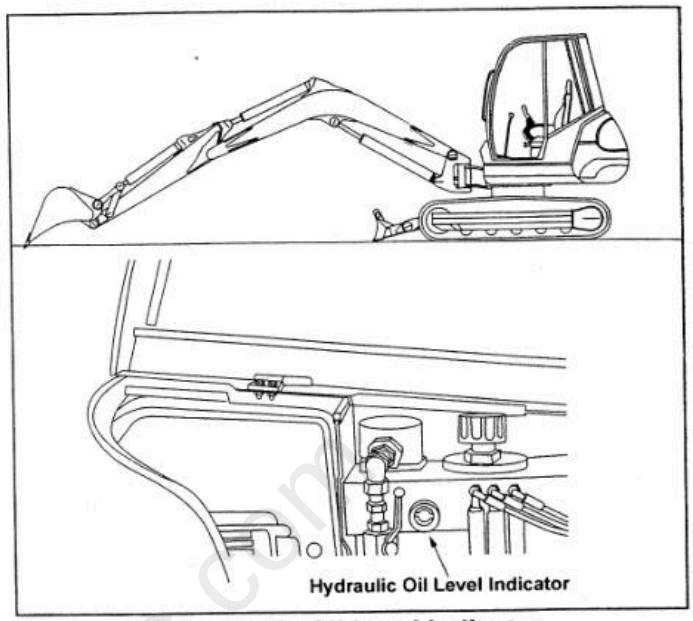


Figure 4-10. Hydraulic Oil Level Indicator

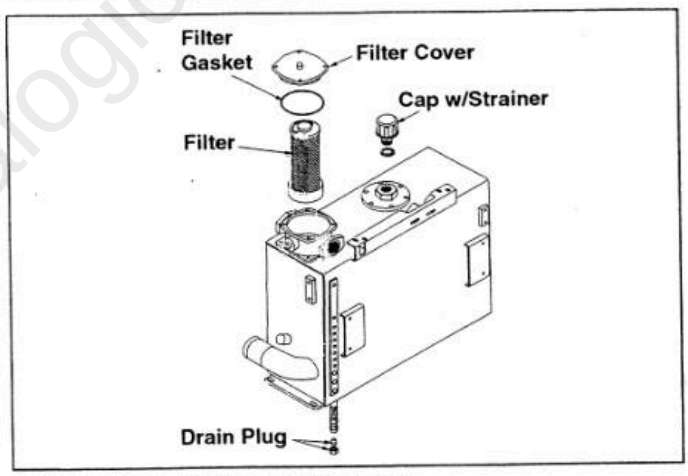


Figure 4-11. Hydraulic Oil Tank

6. Remove four bolts and filter cover (Figure 4-11). Remove and discard old filter. Put clean hydraulic fluid on the filter gasket and install gasket and new filter into tank.
7. Reinstall filter cover and bolts.
8. Fill tank with hydraulic oil until oil level is between red and black marks on indicator (Figure 4-11).
9. Re-install hydraulic tank cap and tighten securely.
10. Start engine and let idle for a few minutes.
11. Check hydraulic functions. Recheck hydraulic oil level.
12. Close hydraulic valve cover.

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Changing Final Drive Oil

1. Position the machine on a level surface with final drive plug positioned on the bottom as shown in POSITION 1, Figure 4-12. Turn off the engine.
2. Open plug and drain oil into a suitable container. Re-install plug.
3. Turn the engine on and move the machine slightly until plug is positioned on top as shown in POSITION 2, Figure 4-12. Turn off the engine.
4. Remove plug. Pour fresh oil into the hole until oil starts to run out. See Recommended Lubricants on page 4-7.
5. Re-install plug securely.

IMPORTANT: Always dispose of oil according to local regulations or take to a recycling center for proper disposal. DO NOT pour fluids onto the ground or down a drain.

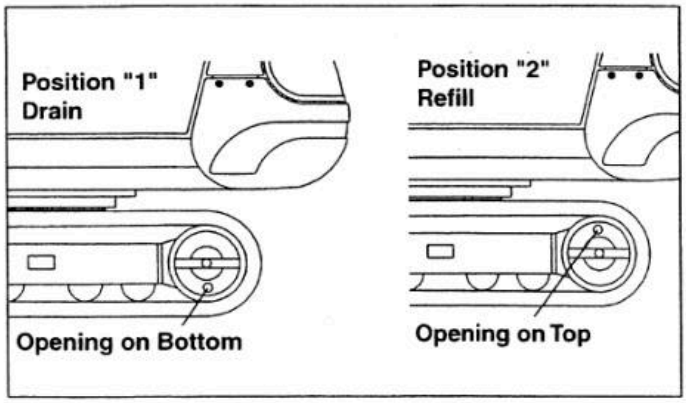


Figure 4-12 Changing Final Drive Oil

Adjusting Track Tension

1. Position the machine on a level surface.
2. Use the bucket and dozer blade to lift the unit up until tracks are just clear of the ground (Figure 4-13). Turn off the engine.
3. Remove the side plate from the left track to expose the adjustment fitting (Figure 4-13).
4. Use a grease gun to pump grease into the fitting until the track tension is tightened appropriately. Idler wheel should be positioned as shown.

NOTE: A grease gun is supplied with machine tool kit.

5. Install side plate.
6. Repeat steps 4 and 5 for right side track.
7. Start the engine. Lower the unit to the ground.

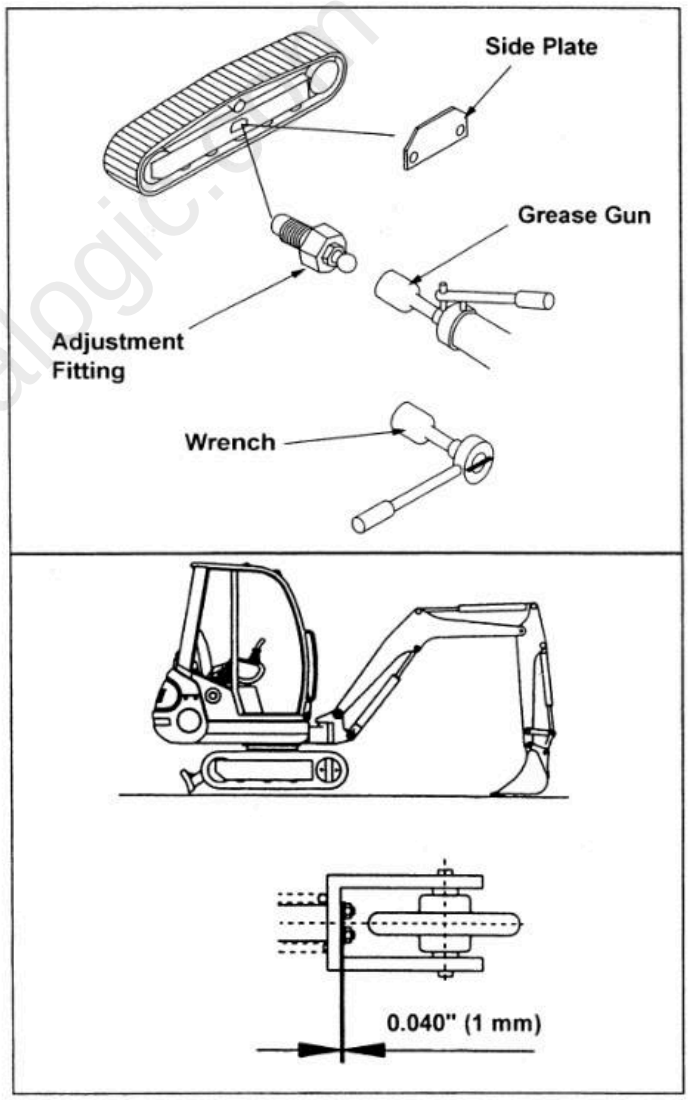


Figure 4-13. Track Adjustment

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