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English

5002 RD/6002 RD Crawler Excavator



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OPERATOR'S MANUAL

MUSTANG®
Mustang Manufacturing Company, Inc., A Gehl® Company

Mustang 5002RD and 6002RD Compact Excavator Operator Manual

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

Brand: Mustang

Models: 5002RD and 6002RD

Machine: Compact Excavator

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Sample pages follow. Full manual: machinecatalogic.com

SPECIFICATIONS

	5002 RD	6002 RD
ENGINE		
Make	Yanmar	Yanmar
Model	4TNE88-NSW-Diesel	4TNE98-NSR-Diesel
Type	4-Cyl. Water-Cooled	4-Cyl. Water-Cooled
Displacement	134 cu. in. (2190 cc)	202 cu. in. (3318 cc)
Rated Power Output	40 hp (30 kW)	64 hp (47.5 kW)
	@ 2500 rpm	@ 2300 rpm
Battery	12V (88 Ah)	12V (88 Ah)
Fuel Tank	14.5 gal. (55 L)	19.8 gal. (75 L)
HYDRAULIC SYSTEM		
Pumps	Double Variable Cap.	Double Variable Cap.
	& One Gear Pump	& One Gear Pump
Flow Rate	14 gpm (52 L/min)	17 gpm (64 L/min)
	14 gpm (52 L/min)	17 gpm (64 L/min)
	8 gpm (31 L/min)	13 gpm (48 L/min)
Working Pressure	3343 psi (230 bar)	3561 psi (245 bar)
Swing System Pressure	2616 psi (180 bar)	2616 psi (180 bar)
Oil Cooler	Standard	Standard
Hydraulic Tank	26.4 gal. (100 L)	31.7 gal. (120 L)
UNDER CARRIAGE & SLEWING SYSTEM		
Travel Speed-Dual	1.6 mph (2.5 km/h)	1.9 mph (3.0 km/h)
	2.8 mph (4.5 km/h)	3.4 mph (5.5 km/h)
Ground Clearance	13 in. (335 mm)	13 in. (335 mm)
Slew Speed	9 rpm	10 rpm
Gradability	30° (= 58%)	30° (= 58%)
Rubber Track Width	16 in. (400 mm)	16 in. (400 mm)
Number of Track Rollers	5 each side	5 each side
Average Ground Pressure	3.84 psi (26.5 kPa)	4.27 psi (29.4 kPa)
DOZER BLADE		
Width	73 in. (1850 mm)	73 in. (1850 mm)
Height	17 in. (425 mm)	17 in. (425 mm)
Maximum Lift Above Ground	15 in. (381 mm)	16 in. (400 mm)
Below Ground	16 in. (400 mm)	17 in. (432 mm)
BUCKET (STANDARD)		
Width	19.7 in. (500 mm)	19.7 in. (500 mm)
Capacity	4.5 cu. ft. (0.13m^3)	4.5 cu. ft. (0.13m^3)
NOISE LEVEL		
Power Sound	94 dB(A)	96 dB(A)
Pressure Sound	80 dB(A)	78 dB(A)

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CHECKLISTS

Pre-Delivery Checklist

The following checklist is an important reminder of valuable information and inspections which MUST be made before delivering the machine to the customer. Check off each item after prescribed action is taken.

✔ CHECK THAT:

- ❑ Unit has NOT been damaged in shipment. Check for such things as dents and loose or missing parts; correct or replace components as required.
- ❑ Battery is securely mounted and NOT cracked. Make sure cable connections are tight.
- ❑ Cylinders, hoses and fittings are not damaged, leaking or loosely connected.
- ❑ Filters are not damaged, leaking or loosely secured.
- ❑ Machine is properly lubricated and no grease fittings are missing or damaged.
- ❑ Hydraulic system reservoir, engine crankcase and drive chaincases are filled to their proper levels.
- ❑ All adjustments are made to comply with settings given in *Section 4–Maintenance* of this manual.
- ❑ All guards, shields and decals are in place and secured.
- ❑ Model and serial numbers for this unit are recorded in the space provided on this page and on page 1-1.

IMPORTANT: Start the engine and test run the unit while checking that all controls operate properly.

✔ CHECK THAT:

- ❑ Drive controls and boom/arm/bucket/swing/pivot controls operate properly and are not damaged or binding.
- ❑ Drive controls are properly adjusted for a correct neutral position.
- ❑ The parking and travelling gear brake, along with the blocking devices, are automatically activated with unit stationary (no pilot control pressure).
- ❑ All hydraulic functions are NOT operational with the left-hand control console in the pivoted rearward position.

I acknowledge that pre-delivery procedures were performed on this unit as outlined on this page.

Dealership Name

Dealer Representative Name

Date Checklist Filled Out

Model & Serial Number

Delivery Checklist

The following checklist is an important reminder of valuable information that MUST be passed on to the customer at the time of delivery. Check off each item as you explain it to the customer.

✔ EXPLAIN:

- ❑ The Safety Information and Operation chapters of this manual, regarding the safe operation of this machine.
- ❑ The Maintenance and Troubleshooting chapters for information regarding the proper maintenance of this machine. Explain that regular lubrication and maintenance is required for continued safe operation and long machine life.
- ❑ Give the Operator's Manual to the customer and instruct the customer to read and completely understand the contents before operating the unit.
- ❑ Explain that the customer MUST consult the engine manual (provided) for related specifications, operating adjustments and maintenance instructions.
- ❑ Completely fill out the Owner's Registration, including customer's signature and return it to the Gehl Company.

Customer's Signature

Date Delivered

Retain for Dealer's Records

Cut along dotted line and retain for Dealer's records.

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GENERAL INFORMATION

⚠ WARNING

Make sure you are familiar with all safety devices and controls before operating the machine. Know how to stop before starting. This MUSTANG machine is designed for use only with MUSTANG Manufacturing Company approved accessories or referral attachments. The MUSTANG Manufacturing Company cannot be responsible for operator safety if the unit is used with non-approved attachments.

⚠ WARNING

Instructions are necessary before operating the machine. Read and understand this entire manual. Follow warnings and instructions for operation and maintenance. Check for correct function after adjustments or maintenance. Failure to follow instructions can result in injury or death.

⚠ WARNING

Read and thoroughly understand all safety decals before operating the machine. DO NOT operate the machine unless all factory installed guards and shields are in place.

Guards & Shields

Whenever possible, guards and shields are used to protect potentially hazardous areas on the machine. In many places, decals are also provided to warn of potential hazards and/or to display special operating procedures (see *Safety Decals Locations* in Section 2).

The operator's seat left-hand console must be raised in order to exit the cab. In the raised position, the left-hand console locks out all hydraulic functions of the machine (Figure 3-1).

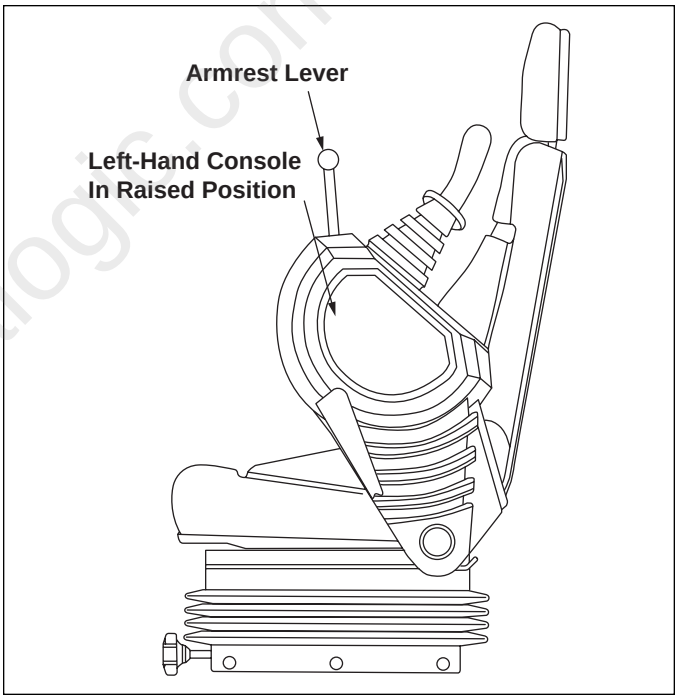


Figure 3-1. Left-Hand Console Raised

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Starting/Stopping the Engine (continued)

IMPORTANT: Indicator lamps must go out when engine starts. If they do not, turn off the engine IMMEDIATELY until cause has been determined and fixed.

COLD WEATHER STARTING PROCEDURE

1. Install an engine heater.
2. Be sure engine oil is correct type and viscosity for the ambient temperature.
3. Be sure battery is fully charged.
4. Push the throttle lever (Figure 3-12) fully forward.
5. Follow all steps under Normal Starting Procedure on previous page.
6. As the engine warms up and engine speed increases, move the throttle lever to the idling position.

NEW MACHINE BREAK-IN PROCEDURE

A new machine requires careful operation during the first 100 hours to properly break-in various parts. If the machine is subjected to hard use during the break-in period, the performance and service life will be reduced.

Perform the following when operating a new machine:

- After starting, let the engine idle for 5 minutes so all the components can warm-up.
- Avoid operation with heavy loads or at high speeds.
- Avoid sudden starting and stopping or abrupt motions.

Moving the Excavator

1. Set the travel speed using the travel speed switch on the console:
   Slow Speed Maximum = 1.6 mph (2.6 km/h)
   Fast Speed Maximum = 3.7 mph (5.3 km/h)

NOTE: *If the travel speed switch on the console (Figure 3-6) is in the fast speed position, machine will not turn right or left. It will only go straight forward or rearward.*

2. Push or pull the travel levers w/foot pedals to move the machine (Figure 3-13).

   Push both levers forward to move forward.

   Pull both levers rearward to travel in reverse.

NOTE: *If the superstructure has been rotated 180° (dozer blade at the rear), travel levers will work in the opposite manner. Pushing levers forward will cause the machine to travel in reverse and pulling levers to the rear will move the machine forward.*

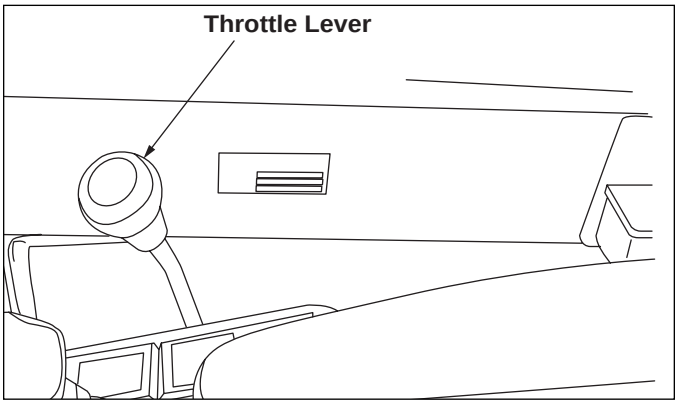


Figure 3-12. Throttle Lever

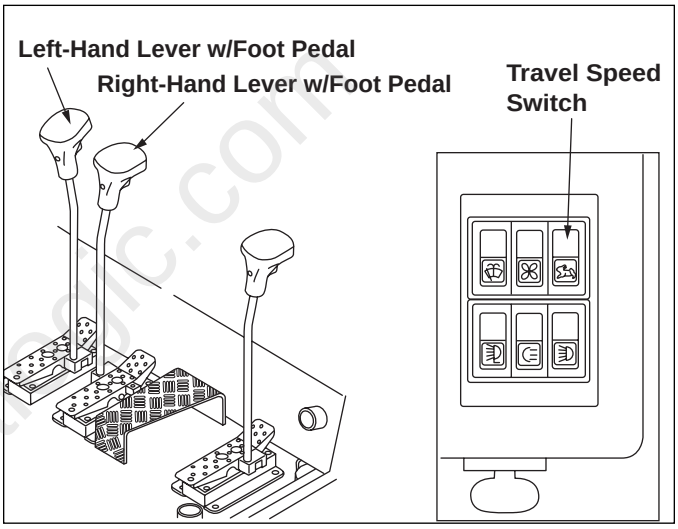


Figure 3-13. Travel Levers & Speed Switch

3. To turn left, pull the left-hand travel lever back and push the right-hand lever forward.

   To turn right, pull the right-hand lever back and push the left-hand lever forward.

4. To stop travelling, return levers to neutral (middle) position.

NOTE: *When released, levers and controls return to the neutral position automatically.*

Mandatory Safety Shutdown Procedure

Before leaving the machine:

1. Lower the working equipment to the ground and support it securely.
2. Reduce throttle and turn off the engine.
3. Lock out controls by raising left control console.
4. Remove the ignition key and take it with you.

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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 stability (weight) 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 3-16).

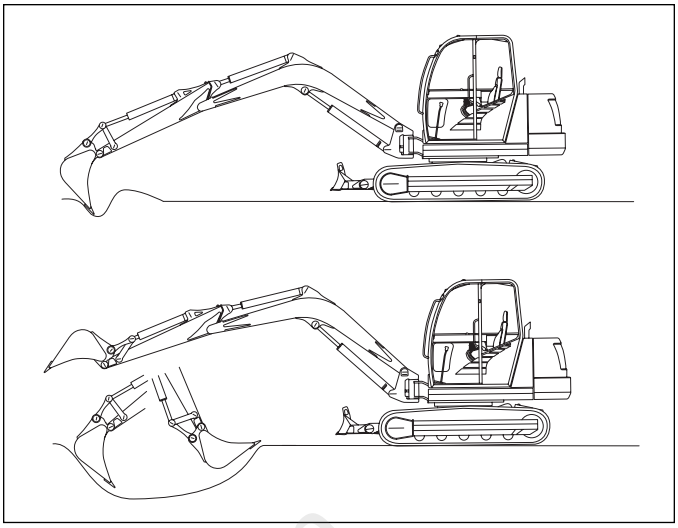


Figure 3-16. Proper Excavating

Grading

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

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MAINTENANCE SCHEDULE (continued)

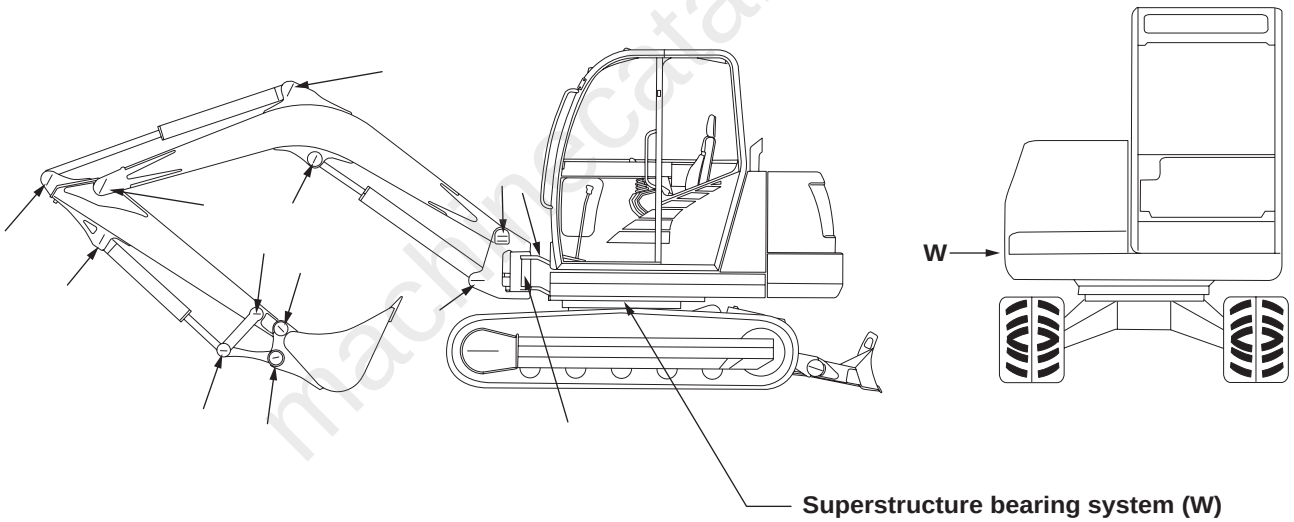
General

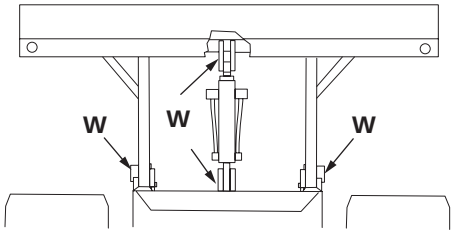
Service Activity	Daily	Weekly	Every 50 Hours	Every 125-250 Hours	Every 500 Hours	Every 1000 Hours	Annually
Check hydraulic system	✔						
Check bolts	✔						
Check lights	✔						
Check windshield wiper system		✔					
Check for leaks	✔						

LUBRICATION

Lubrication Points

Green Caps–lubricate weekly (points marked with a "W")
Blue Caps–lubricate daily





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ENGINE

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Engine will not start.	No fuel.	Add fuel to tank; bleed fuel system.
	Battery power insufficient.	Charge battery or replace if necessary.
	Fuel filter contaminated.	Clean fuel filter.
	Pre-glow system not working.	Replace pre-glow system (contact authorized repair center.).
Insufficient engine power.	Fuel line leakage.	Replace fuel line.
	Air filter contaminated.	Clean air filter.
	Engine not at operating temperature.	Warm up the engine.
	Engine overheated.	Check cooling system.

INDICATOR LAMPS

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Engine oil pressure indicator light comes on during operation.	Engine oil pressure too low.	Stop engine immediately. Check oil level and add oil if necessary. If oil level is correct, oil pump may be inoperative.
	Engine oil level too low.	Add oil.
Water temperature display light comes on during operation.	Coolant level too low.	Add coolant.
	Fan blades rotate too slowly.	Adjust V-belt tension.
	Air filter contaminated.	Clean air filter.
Battery voltage light comes on during operation.	Alternator not charging properly.	Adjust V-belt tension.
Fuel light comes on.	Low fuel.	Add fuel.

SEALS & HOSES

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Oil or fuel leakage under engine.	Loose hose connections.	Tighten hose connections.
	Seals or hoses damaged.	Change seals or hoses and check engine oil level. Add engine oil if required.
Oil losses from hydraulic system.	Loose hose fittings.	Tighten hose fittings. Check hydraulic oil level. Add hydraulic oil if required.
	Seals, hoses or lines damaged.	Change seals, hoses and/or lines.

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Full Version Available

Mustang 5002RD and 6002RD Compact Excavator Operator Manual

Mustang 5002RD and 6002RD compact excavator operator manual 000-69991: safety, controls, maintenance, lubrication, schematics. Instant PDF download.

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