

# Terrco<sup>®</sup>, Inc.

Model 200



**OPERATING INSTRUCTIONS**

**MAINTENANCE INSTRUCTIONS**

**ILLUSTRATED PARTS LIST**

**Terrco<sup>®</sup>, Inc.**

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# Terrco<sup>®</sup> Model 200

## Specifications:

Motor	5 H.P., 230 Volt, 60 Hz, AC, Single Phase 24 Amp
Speed of Discs	450 Rpm
Weight of Machine	650 lbs
Shipping Weight	734 lbs
Weight of Head	595 lbs
Length of Machine	40"
Width of Machine	20"
Height of Machine	36"
Water Tank	10 gallons
Power Cord	100 feet (8-3)

- Designed to function as an edger
- Magnetic Starter or Variable Speed Drive
- Two Disc, Three Stones per Disc
- Four 42 lbs. pocket weights
- Wet/Dry Setup
- Stainless Steel Guards and Water Tank

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# Operating Instructions

## INTRODUCTION:

This manual has been prepared to assist you in the proper operation and maintenance of your machine. Please bear in mind that your TERRCO® 200 is a precision piece of machinery manufactured to exacting standards. In order for you to obtain maximum use of your TERRCO® 200, we suggest that you read this manual completely and thoroughly before attempting to operate your machine. A parts diagram and parts reference sheet are included to assist you in ordering the proper parts. Always give the machine number and model number when ordering repair parts.

## **PRELIMINARY PROCEDURES TO FOLLOW BEFORE PUTTING THE 200 IN OPERATION FOR THE FIRST TIME.**

### A. Delivery of the Machine

1. On delivery, the contractor should very carefully examine the shipping crate to see that no part of the machine is damaged. If damage is noted, request an inspection immediately and request a copy of the claim report. When accepting the machine from the delivering carrier, note the damage on the Freight Bill before signing. **TERRCO® WILL NOT** honor any claims for broken, damaged, or missing parts that may have occurred in shipment, as each machine is checked and inspected for the same, before leaving our plant.

### B. Installation and Replacement of Grinding Stones

1. Remove the counterbalancing weights.  
2. Tilt machine back so that the caster wheel rests on the floor.  
3. Clean mounting surface both on plug stone and stone holder. On 2" or 3" diameter plug stone, push stone in the hole and give the stone a slight twist to be certain it is securely in place.  
4. Grasp machine handle and lower machine to the floor slowly so that all stones are resting on the floor. Make certain no stones have fallen or loosened while lowering the machine to the floor.

### C. Transport of Machine

1. With counterbalancing weights removed from the weight baskets, tilt the machine so that the caster wheel is firmly on the floor. You can push from gear case side.

### D. To operate the 200

1. Disconnect electrical source.  
2. Install stones per instructions in #1B.  
3. After stones are installed, lower the machine until it is in operating position.  
**CAUTION** - Never attempt to start the machine while lowering machine to the floor, as rear stones will strike on corners resulting in thrown stones and possible damage to the machine.  
4. Before plugging into the electrical system, check the voltage at the source. The minimum acceptable voltage is (208 Volt, 60 HZ, single phase. Anything lower than this can result in blown heaters and possible motor burnout.  
5. If the machine is to operate in an area more than 100 feet from the source, it will be necessary to use the next larger size cable (#6-3) from the source to the 100 feet of #8-3 wire cable that was furnished with the machine.  
6. After you have the cable in place, relieve pressure on the stones by applying your weight on the handle and push the start button on the starter switch, then releasing pressure on the handle to lower the machine to the floor.  
7. We recommend that the first pass over the floor be made with the weights off the machine. After the floor is "roughed" out, move the weights to the weight baskets located on the gear case for maximum abrasive pressure.  
8. Be sure to periodically check stone wear, to prevent grinding with the steel plugs, rather than the stones.

# General Maintenance for your TERRCO<sup>®</sup> 200

## A. The Lubrication of the Machine

1. The lubrication of the main gear case
  - a. The main gear case contains Mobilith AW-1 grease.
  - b. Gear case grease level must be checked once a month. The level of grease in the gear case should be up to half the thickness of the helical gears. (Ref. No. 19 or 20 on the parts diagram).
2. The Lubrication of the Wheel Bearings.
  - a. Use grease gun and grease once a month on each wheel with Mobilith AW-1 or equivalent.
  - b. Be sure to pump enough grease into the wheel bearing. Keep pumping until grease starts coming through shaft clearance in the inner bearing cap.
3. Location of the grease fittings.
  - a. Two fittings on bearing caps on top of gear case (Ref. No. 7). Lubricate these fittings with Mobilith AW-1 or equivalent.

## B. Keeping Machine Clean

1. Daily schedule after each day's grinding.
  - a. Tilt machine back on handle.
  - b. Clean under carriage with water using garden hose and nozzle.
  - c. Clean all grease fittings.
2. Do not let any cake-up of cement grinding paste occur as this could create an overload on your machine as well as more weight to push.

## C. Replacement of worn, damaged, or missing parts.

1. Advantages
  - a. If worn parts (bearings, gears, etc.) are not replaced promptly, serious damage to your machine could occur.
  - b. Your machine will operate more efficiently with new TERRCO<sup>®</sup> parts.
2. Use only authorized TERRCO<sup>®</sup> parts as our warranty will not apply if other than factory authorized TERRCO<sup>®</sup> parts are used.

## D. Morflex Flexible Couplings

1. Bolts (Ref. No. 31) should be checked weekly for tightness. Loose bolts cause extreme vibration and premature failure of rubber inserts in the couplings.
2. Your flexible couplings (Ref. No. 29) should be changed a minimum of once a year whether you use you machine or not.

## E. Stone Wear and Replacement.

1. Check your stones for wear periodically, as the stones may be worn flush with stone holder plugs and the operator may be grinding with the steel stone spiders.

## **WARRANTY CLAIM PROCEDURE**

Each new machine is covered by two separate, distinct warranties—one on the machine and one on the electric motor of gasoline engine. Read **VERY CAREFULLY** the Terrco<sup>®</sup> warranty covering the machine, as this will tell you whether you have a warranty claim or not. If your machine is under warranty and malfunctions, determine whether your problem is electrical or mechanical, and do the following:

### **I. Electrical.**

- A. Consult the list of authorized motor repair stations sent with the machine and locate the station nearest you.
- B. Contact the repair station, giving them the following information:
  - 1. Complete nameplate date from the motor.
  - 2. Tell them that the machine is a terrazzo grinding and polishing machine.
  - 3. Give them a description or rundown of the trouble.
  - 4. Inform them of the voltage and amperage readings

### **II. Mechanical**

- A. Contact your Terrco<sup>®</sup> Distributor giving them the following:
  - 1. Model and date purchased.
  - 2. Horsepower.
  - 3. Accurate description of the malfunction.
- B. If there is no Terrco<sup>®</sup> Distributor in your area call or write to us with the above information.

## **LIMITED ONE YEAR WARRANTY**

TERRCO<sup>®</sup>, Inc. warrants the original purchaser of the Terrco<sup>®</sup> grinding equipment to be free from defects in materials and workmanship under normal use and service. Our obligation under this warranty shall be limited to the repair or exchange of any part or parts which may prove defective under normal use and service within one year from date of purchase by, the original purchaser, and which our examination shall disclose to our satisfaction to be defective.

All equipment returned for repairs or exchange must be returned to: TERRCO<sup>®</sup>, Inc., at the purchaser's expense and within the warranty period. All repaired or exchanged equipment will be shipped back to the purchaser F.O.B. Watertown, South Dakota.

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