

Terrco[®], Inc.

TERRCO EDGER



OPERATING INSTRUCTIONS

MAINTENANCE INSTRUCTIONS

ILLUSTRATED PARTS LIST

Terrco[®] Inc.

222 1st Avenue NW • Watertown, SD 57201
Phone: (605) 882-3888 • Fax: (605) 882-0778
Website: www.terrco.us • Email: info@terrco.us

Terrco[®] EDGER

HP/KW	3-2.2
VOLTAGE	230
PHASE	1
AMP DRAW	13.2
BREAKER (AMPS)	30
STONE HOLDER RPM	1725
SWEEP OF DISC	7" (178 mm)
ABRASIVE PRESSURE	45 lbs (20.4 kg)
WIDTH OF MACHINE	16" (406.4 mm)
LENGTH OF MACHINE	37-1/2" (952 mm)
HEIGHT OF MACHINE	37-1/2" (952 mm)
NET WEIGHT	230 lbs (104 kg)
SHIPPING WEIGHT	325 lbs (147 kg)
WATER TANK	7 gallons (26.5 l)
POWER CORD (8-3)	100 ft (30.5 m)

* WEIGHT MEASURED WITH FOUR POCKET WEIGHTS

- Wet/Dry Setup
- Magnetic Start
- Works with 7" Cup Wheels
- Articulating Arm
- Adjustable wheels to control height of grinder
- Belt Driven
- Available with fixed wheels or casters

ADJUSTABLE ROLLER GUARD

- The adjustable roller guard was designed to handle a seven inch cup wheel. The rollers on the guard are adjustable to allow the user to choose how close to the wall to grind. The Terrco Edger, equipped with the HBS-146 guard will keep you off your knees all while grinding cleanly right up to a wall.

ELECTRICAL OPTIONS

VOLTAGE	230	230	230	230	460
PHASE	1	1	3	3	3
DRIVE	MANUAL	VARIABLE	MANUAL	VARIABLE	VARIABLE
AMP DRAW	34	34	22	22	11
BREAKER (AMPS)	50	50	30	30	30
STONE HOLDER RPM	390	390-585	390	390-585	390-585

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SAFETY PRECAUTIONS

This machine is intended for commercial use.

It is designed exclusively to grind and polish Terrazzo and concrete floors.

Use only recommended accessories and abrasives.

When the machine is in need of repair, use only Terrco approved parts.

All operators must read, understand and practice the following safety precautions.



WARNING: Rotating grinding wheels can cause injury, keep hands and loose clothing clear.



WARNING: Disconnect power at the machine before servicing or changing grinding stones.



WARNING: Always check ground (earth) connection prior to operating machine.

FOR SAFETY:

- Have electrician hook up power to machine.
- Always operate machine with ground fault protection.
- Eye, hearing and respiratory protection advised.
- Service and adjust guards for maximum protection. Never remove the guards.
- Keep machine clean and properly serviced.

SAFETY LABEL

The safety label is located on the drive box of the machine.
Replace label if it is damaged or illegible.

 WARNING FOR SAFETY, READ OWNERS MANUAL BEFORE USING MACHINE 	
	ROTATING CUTTERS KEEP GUARDS IN PLACE AND ADJUSTED KEEP HANDS AND FEET AWAY WHEN OPERATING
	WEAR EYE AND HEARING PROTECTION WHILE OPERATING THE MACHINE
	GRINDING CAN GENERATE DUST DUST MAY AFFECT BREATHING AVOID DUST CONTACT BY USE OF MASK OR RESPIRATOR
	DISCONNECT POWER BEFORE CHANGING TOOLING OR SERVICING THE MACHINE ALWAYS CHECK GROUND (EARTH) PRIOR TO OPERATING MACHINE



OPERATING AND MAINTENANCE INSTRUCTIONS TERRCO EDGER



INTRODUCTION

This Manual has been prepared to assist you in the proper maintenance and operation of your Terrco® Machine. Please bear in mind that your 501-S or 701-S machine is a precise piece of machinery manufactured to exacting standards. In order for you to obtain maximum use of your machine, we suggest that you read this manual completely and thoroughly before attempting to operate your machine. A parts diagram and parts list are included to assist you in ordering the proper parts. Always give the machine number and model number when ordering your repair parts.

PRELIMINARY PROCEDURES TO FOLLOW BEFORE OPERATING MACHINE FOR THE FIRST TIME:

DELIVERY OF MACHINE

1. On delivery the contractor should very carefully examine the shipping crate to see that it has not been mishandled. Before accepting the shipment, uncrate the machine and very carefully examine the machine to ensure that nothing has been damaged. If damage is noted, request an inspection immediately and request a copy of the claim report. When accepting the machine from the delivery carrier, note the damage on the bill of lading before signing.

2. Terrco® **WILL NOT** honor any claims for broken, damaged, or missing parts that may have occurred in shipping, as each machine is checked and inspected before leaving our plant.

The machine has been fully lubricated at the factory before shipping.

ON-THE-JOB INSTRUCTIONS

INSTALLATION INSTRUCTIONS-STONES

1. Remove the weights and raise adjustable handle as far forward as possible, lock into position and put one foot on the rubber-tired wheel.
2. Tip the machine back to the floor so that the handle lays on the floor.
3. Clean stone mounting surface.
4. **IMPORTANT!** Install the plug stones in the following manner. Place the stone firmly into the plug stone holder and twist.
5. After the stones are installed raise the machine until it is in operating position with all stones on the floor. Lower handle to position best suited for the operator, and replace the removable weights.
6. **CAUTION!** NEVER ATTEMPT TO START THE MACHINE WHILE LOWERING TO THE FLOOR, as the rear stones will strike on the corners resulting in thrown stones and possible damage to the machine.

ELECTRICAL AND PLUG-IN INSTRUCTIONS

1. General Instructions

- Always operate your machine with ground faults wired at the electrical source.
- Low voltage is a common occurrence on many terrazzo jobs, and hence it is necessary that the terrazzo contractor know his incoming voltage and amperage at the machine.
- As a result of the low voltage and the use of a 230 Volt motor, Terrco® has installed a booster box with pre-wired plugs already connected to your machine.
- If the machine is to operate on an area more than 100 feet from the electrical source it will be necessary to use the next lower number (larger) size cable from the source to the 100 foot wire cable that we furnished with the machine.
- If additional cable is necessary, be sure all connections are of the proper size and that they are tight.
- As a final step before starting the machine, we strongly recommend that a voltage reading is taken; this requires very little time and could save a great deal of trouble.

GENERAL MAINTENANCE AND REPAIR INSTRUCTIONS

THE LUBRICATION OF THE MACHINE

1. The lubrication of the main gear case.
 - The main gear case contains 6-1/4 pounds of Mobilith AW-1 grease.
 - Gear case level should be checked once a year. The level of the grease in the gear case should be up to half the thickness so the helical gears (Ref. number 13 and 35 on the parts diagram).
2. The lubrication of the wheel bearings.
 - Use grease gun and grease each wheel with 1 shot of grease monthly (Ref. number 14 on the Suspension Assembly) with Mobilith AW-1 or equivalent.
3. Location of other Grease Fittings
 - Two fittings on bearing caps on top of gear case (Ref. number 7). Lubricate these fittings with Mobilith AW-1 every month with 2 shots of grease.
 - One fitting on foot leveling device (Ref. number 86); recommended grease Mobilith AW-1 or equivalent every six months with 1/2 shot of grease or as needed.
 - There are four shoulder bolts located at the pivot points of the handle bar that require 1/2 shot of Mobilith AW-1 or equivalent every six months or as needed.

KEEPING MACHINE CLEAN

1. Schedule daily cleaning after each days grinding.
 - Tilt machine back on handle.
 - Clean under carriage with water using a garden hose and nozzle.
 - 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.
3. Avoid direct spraying of drives/ starter boxes if using a pressure washer to clean the machine.

REPLACEMENTS OF WORN, DAMAGED, OR MISSING PARTS

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

MORFLEX FLEXIBLE COUPLINGS

1. Bolts, (Ref. number 87) should be checked weekly for tightness. Loose bolts cause extreme vibrations and premature failure of rubber inserts in the couplings.
2. Your flexible couplings (Ref. number 37) should be changed a minimum of once a year whether you use your machine or not.

HIGH MOTOR TEMPERATURE

1. Introduction
 - "Running Hot" is normal for the smaller, lighter "t" type motor.
 - Even though they will run hotter, the "T" motors run more efficiently.
 - Skin cannot withstand a temperature over 135° F yet, most electric motors on Terrco® machines are designed to operate efficiently at 165°.
2. Operating Characteristics
 - The temperatures of motors are rated by temperature rise and full load over and above room temperature (25°C or 77°F).
 - To convert degree Centigrade to degree Fahrenheit, multiply degree Centigrade by the fraction 9/5 and add 32.
 - Older (repulsive-induction) type motors were rated 40° Centigrade rise, or approximately 150° Fahrenheit.

3. Conclusion

- It is recommended that you keep your hands off the motors when they are hot.
- If you desire to know the temperature of the motor do the following:
 1. Place a 200°F thermometer on the frame of the motor.
 2. Place a glob of putty over the bulb of the thermometer.
 3. Take the temperature readings.
- Also, do not forget we use a thermal protected starters on Terrco® machines, and this protects the motor against low voltage and overload conditions which might raise the temperature of the motor beyond safe limits.

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 steel stone spiders.

EXCLUSIVE FEATURES OF THE 01-S SERIES

ADVANTAGES OF “T” TYPE MOTOR

1. Less amperage draw.
 - 15% less in the 5 HP size.
 - 9-1/2% less in the 7-1/2 HP size.
2. Higher safe operating temperature (165°F)
3. Lightweight.
 - 42-1/2% less in the 5 HP size.
 - 34-1/2% less in the 7-1/2 HP size.
4. Less maintenance.
 - No brushes.
 - Less internal wiring.

DESIGN ADVANTAGES OF NEW MANUAL FOOT LEVELING DEVICE

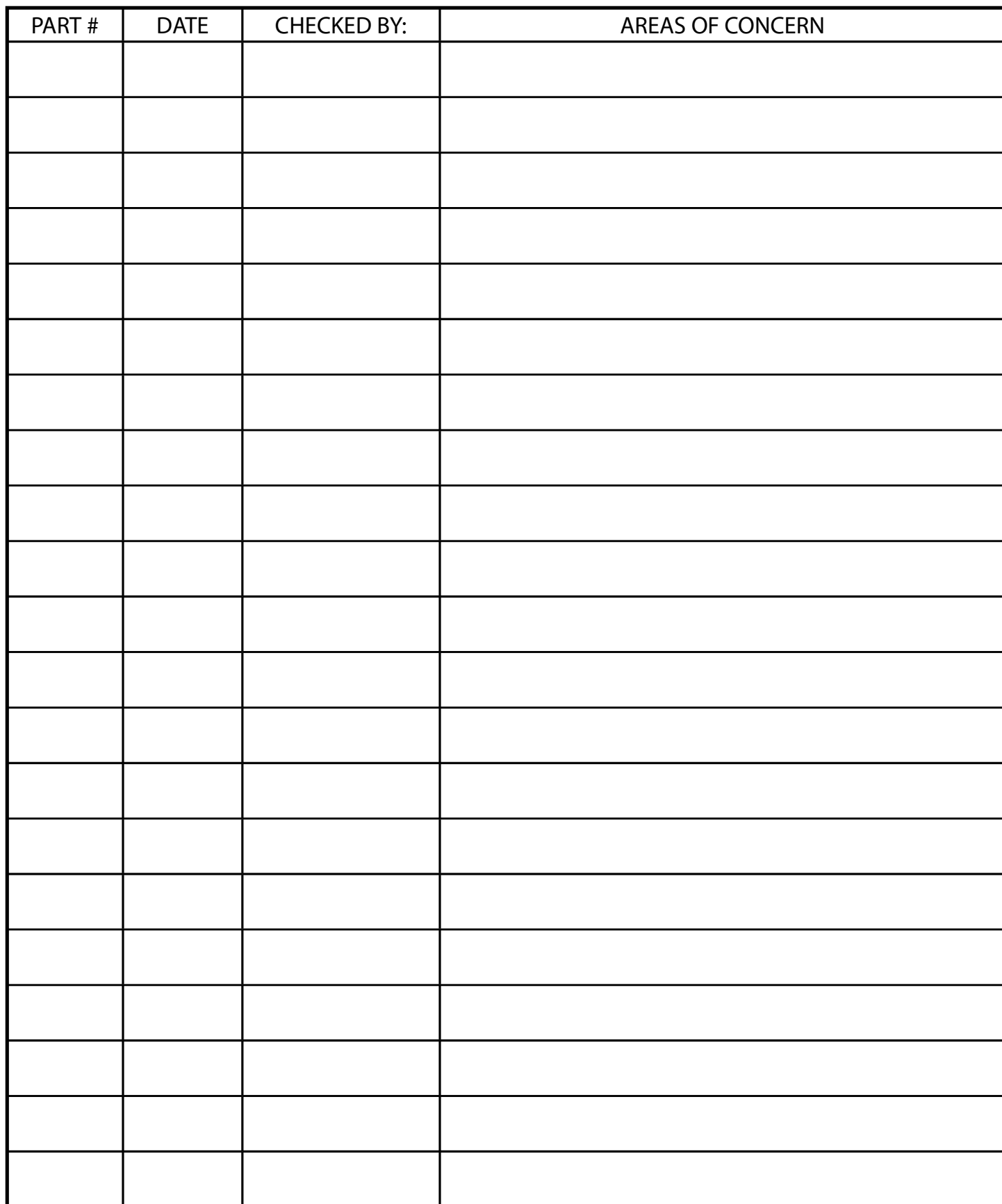
1. Improved machine control.
2. Faster and greater range of adjustments.
 - Six leveling adjustments.
 - 1/8” increments
3. Simple to operate by merely pushing down on foot lever and raising up on handle.

ADVANTAGE OF LIGHTWEIGHT MACHINE

1. Ease of transportation
2. Still has sufficient abrasive pressure by use of the removable weights.

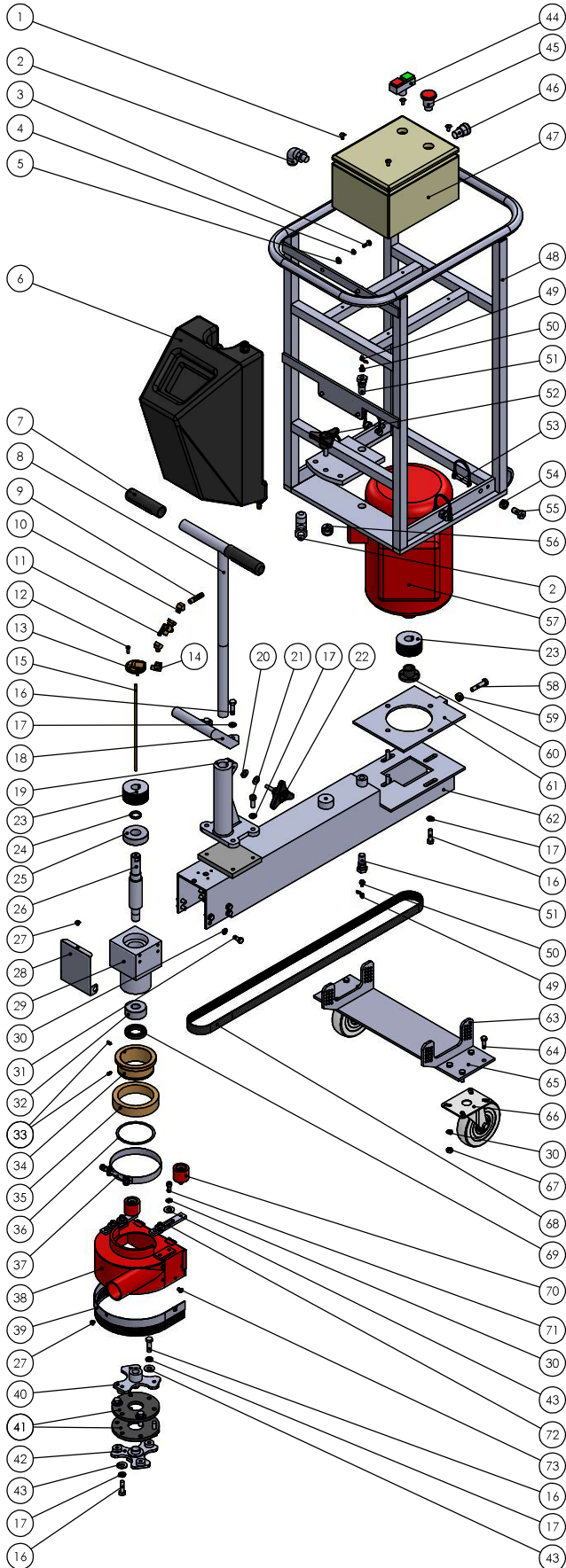
TEN POSITION HANDLE

1. Advantages.
 - Easier to “break” machine when changing stones.
 1. After removing the weights, unscrew safety knob (Ref. number 107), push knob (Ref. number 18) to the rear to release the locking mechanism. Raise handle two or three notches, lock handle by reversing the above procedure and tilt stone holders off the floor.
 2. Pushing the handle forward two or three notches creates a safe stone position for changing, as the machine will not have a tendency to “flip-up”. It also makes it much easier to get at the stone changing area.
2. Operation
 - The adjustable handle is very easy to operate. You merely unscrew the safety knob (Ref. number 107), push knob (Ref. number 18) to the rear to release the locking mechanism. When you have raised or lowered the handle to your desired position, push knob (Ref. number 18) forward as far as you can and screw the safety knob (Ref. number 107) tight. This will lock the handle in position.
 - Make sure that you have pulled knob (Ref. number 18) completely to the rear to assure full unlocking of mechanism and the safety knob (Ref. number 107), is screwed up tight.





TERRCO EDGER PARTS LIST



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	T2161	1/4-20X 1/2 LG SLOTTED TRUSS HEAD	4
2	X-80	90 DEG. CORD CONNECTOR	2
3	T1031	1/4-20 X 3/4 LG HEX HEAD CAPSCREW	4
4	T1030	LOCK WASHER, 1/4"	4
5	T2054	1/4" SAE FLAT WASHER	4
6	HBS 211	PLASTIC WATER TANK	1
7	HB 030	HANDLE GRIP	2
8	HB 034L	HANDLE, LONG	1
9	019853-BARB	BARB ONLY, REM. ANGLE HEAD WATER VALVE	1
10	HBS 212	1/8 X 1/8 NPT 45 DEG STREET ELBOW	2
11	019853-VALVE	WATER VALVE ONLY FOR REM. ANGLE HEAD	1
12	AH 030	#10-32 X 5/8 LG FLUSTER HEAD	3
13	AH 004	DRIVEN UPPER HOUSING CAP	1
14	T2031	ST ELBOW 1/8X90 DEG	1
15	005328	WATER PIPE 10 1/4 INCHES	1
16	T1025	3/8-16 X 1-1/4 LG HEX HEAD CAPSCREW	11
17	T1022	3/8 MEDIUM LOCKWASHER	13
18	HBS 182	FRONT HANDLE	1
19	HB 029	HANDLE BASE	1
20	T2053	FLAT WASHER 3/8 SAE	2
21	T2013	3/8-16 X 1" LG HEX HEAD CAPSCREW	2
22	HBS 196	5/16-18 KNOB	1
23	HBS 191	PULLEY, POLY-V	2
24	HBS 180	SPACER	1
25	HB 006	HORIZ HOUSING GEAR BRG	1
26	HBS 177	SPINDLE SHAFT WITH WATER HOLE	1
27	T3040	1/4-20 X 1/4 LG BUTTON HEAD CAPSCREW	4
28	HBS 193	END COVER	1
29	HBS 176	SPINDLE SHELL	1
30	T1007	LOCK WASHER	20
31	T2130	5/16-18 X 3/4" LG HEX HEAD CAPSCREW	8
32	X-C-27	BEARING, ADV. BORDER, LOWER BOTTOM	1
33	T3049	1/4-20 X 1/2" LG SOCKET HEAD CAPSCREW	2
34	HBS 147	BUSHING FOR DRY GUARD	1
35	HBS 202	GUARD BEARING	1
36	HBS 205	RETAINING RING	1
37	HBS 206	CLAMP	1
38	HBS 146	DRY GUARD 7" HOOD ONLY	1
39	LW 078-Edger	BRUSH STRIP FOR EDGER	1
40	HB 008	DRIVE SPIDER	1
41	HB 026	FLEXIBLE DISC	2
42	HBS 200	DRIVEN SPIDER WITH WATER HOLE	1
43	T3028	3/8 USS FLAT WASHER (WROUGHT)	10
44	SM 091-BUTTON	ON/OFF PUSHBUTTON AND BLOCKS	1
45	LW 076	EMERGENCY STOP SWITCH ASSY	1
46	X-81	STRAIGHT CORD CONNECTOR	1
	X-89	3/4" LOCKNUT	1
47	SM 113-BOX	ENCLOSURE 10X8X6 FOR EDGER	1
	T6020	CONTACTOR 3HP, 1PH, 230V, 60HZ	1
	T6120	OVERLOAD 12-18AMP FOR 2HP 230V, 3HP 230V	1
	Z07-0237	DRIVE SCREW	2
48	HBS 178	FRAME	1
49	T1065	LUBRICAP	2
50	000170	GREASE FITTING 1/8" NPT STRAIGHT	2
51	HBS 145A	SCREW	2
52	HBS 195	3/8-16 KNOB	1
53	HBS 209	1/4" X 1-3/4" ZINC SNAP RING	4
54	T2002	HEX HEAD NUT	2
55	T2166	1/2-13 X 1" LG HEX HEAD CAPSCREW	4
56	HBS 208	REDUCER WASHER, 3/4" TO 1/2"	1
57	HBS 139E	3HP ELECTRIC MOTOR FOR EDGER 220V 1PH	1
58	Z02-1360	3/8-16 X 1-3/4 LG TAP BOLT	1
59	T1026	3/8-16 HEX NUT, FULL	1
60	HBS 192	7/8" BUSHING	1
61	HBS 186	MOTOR PLATE	1
62	HBS 174	MOTOR ARM	1
63	HBS 217	ADJUSTABLE BRACKET FOR EDGER CASTER BASE	2
64	T1006	5/16-18 X 1" LG HEX HEAD CAPSCREW	8
65	HBS 231	CASTER BASE PLATE	1
66	HBS 221	CASTER FOR EDGER	2
67	T2025	5/16-18 HEX NUT	8
68	HBS 184	BELT, POLY-V 65.5"	1
69	HBS 199	SEAL	1
70	HBS 204	ROLLER, GUARD	2
71	Z00-1321	5/16-18 X 3/4 LG SCKT HEAD CAPSCREW	4
72	HBS 203	GUIDE WHEEL BRACKET	2
73	T3055	1/4-20 X 3/8 LG BUTTON HD SOCKET CAPSCREW	4



WARRANTY CLAIM PROCEDURE



Each new machine is covered by two separate, distinct warranties: one on the machine and one on the electric motor or gasoline engine. Read **VERY CAREFULLY** the Terrco® 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:

ELECTRICAL

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

MECHANICAL

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



LIMITED ONE YEAR WARRANTY



TERRCO® Inc. warrants the original purchaser of the Terrco® 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®, 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.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF TERRCO®, INC. AND WE NEITHER ASSUME OR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THIS EQUIPMENT. SOME STATES DO NOT ALLOW THE EXCLUSIONS OR LIMITATIONS ON IMPLIED WARRANTIES OR DO NOT ALLOW THE EXCLUSION OF LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY SHALL NOT APPLY TO ANY EQUIPMENT OR PART THEREOF WHICH HAS BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, ALTERATIONS, ABUSE, MISUSE, OR IMPROPER MAINTENANCE. TERRCO®, INC. MAKES NO WARRANTIES WHATSOEVER IN RESPECT TO ACCESSORIES OR PARTS NOT MANUFACTURED OR SUPPLIED BY US.