

## Important Safety Instructions



**WARNING:** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

### **READ ALL INSTRUCTIONS**

### **Safety Instructions for All Tools**

- **KEEP GUARDS IN PLACE** and in working order.
- **REMOVE ADJUSTING TOOLS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from the Terminator® before turning tool on.
- **KEEP WORK AREA CLEAN.** Cluttered areas invite accidents.
- **KEEP CHILDREN AWAY.** All visitors should be kept a safe distance from the work area.
- **WEAR PROPPER APPAREL.** No loose clothing, gloves, neckties, rings, bracelets or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- **ALWAYS WEAR SAFETY GLASSES.** Also use a face or dust mask if operating in a dusty environment. All users and bystanders must wear eye protection that conforms to ANSI Z87.1. (CAN/CSA Z94.3)
- **MAINTAIN EQUIPMENT WITH CARE.** Keep equipment clean for best and safest performance. Follow instructions for lubrication and changing accessories.
- **DISCONNECT BATTERY** before servicing.
- **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure handles are centered and foot pedal is not depressed before starting.
- **USE RECCOMENDED ACCESSORIES.** Consult the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
- **NEVER STAND ON TOOL.** Serious injury could occur if the machine is tipped or rocked.
- **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully

checked to determine that it will operate properly and perform its intended function—check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced. Do not use tool if switch does not turn it on and off.

- **NEVER LEAVE EQUIPMENT RUNNING UNATTENDED. TURN POWER OFF.** Don't leave equipment until it comes to a complete stop.
- **DO NOT OPERATE ELECTRIC TOOLS NEAR FLAMABLE LIQUIDS OR GASSES OR EXPLOSIVE ATMOSPHERES.** Motors in these tools may spark and ignite fumes.

**The instructions we have given you here are not a complete Operator's Manual. They cover the basic operational and safety requirements to operate the Terminator. Please contact your All Star Rents branch for a complete Owner's Manual if needed.**



## **Additional Safety Rules for Riding Floor Scrapers**

**⚠ CAUTION: FAILURE TO HEED THESE WARNINGS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH AND SERIOUS DAMAGE TO THE TERMINATOR®.**

The Terminator® is to be operated only by qualified, trained personnel.

DON'T attempt to operate the Terminator® if you are not thoroughly familiar with the operation of the Terminator®.

DON'T operate the Terminator® unless every guard, warning notice or sign is in place.

DON'T use the Terminator® on roofs or floors not designed to carry the weight of the machine. The Terminator weighs 2,780 lbs.

DON'T attempt to operate on anything but the designated voltage.

DON'T operate unless all clamp handles are tight.

DON'T wedge anything against the motor fan to hold motor shaft.

DON'T operate equipment without guards in place.

DON'T operate the Terminator® near an open flame or smoking materials

DON'T operate the the Terminator® while under the influence of drugs, alcohol or medication.

DON'T engage in horseplay on or near the Terminator®

DON'T stand directly behind or in front of the the Terminator® when power is enabled.

DON'T lift the hood, inspect the blade, or otherwise service or maintain the Terminator® while power is enabled.

DON'T operate the Terminator® if the top cover is open.

DON'T overreach. Keep proper footing and balance at all times.

DON'T run the machine into piles of debris, as this may cause the machine to become unstable and tip over.

DON'T sit on or stand next to, under or around the Terminator® when it is being transported in a moving vehicle, whether by itself or with other equipment.

DON'T attempt to use the Terminator® on a non-horizontal surface or turn the Terminator® around on a ramp or hill.

DON'T put your hands or feet in the blade area when the Terminator® is running.

DO turn the power off when not in use.

DO use personal safety equipment such as steel toe shoes, safety glasses, gloves, and ear plugs.

DO use gloves when changing blades and removal tools. Tools may be hot and cause burns.

DO familiarize yourself with all safety features and controls before each use.

DO use the Terminator® only for the purpose for which it was designed. Attempting to alter the Terminator® will invalidate applicable warranties and possibly damage the machine.

DO reduce speed next to walls, machinery and other objects.

DO pre-survey the floor for cracks, ditches, trenches, electrical outlets or bolts, which could catch the blade of the machine.

DO use the seat belt on the machine.

DO operate the Terminator at a safe speed.



## General Operating Instructions for the Terminator®

- The Terminator® is designed to remove carpet, tile and glue residue from floors.
- When removing product, position removed product so it rolls to the side of the machine or have someone on the side of the machine remove the product. NEVER WALK IN FRONT OF OR BEHIND THE TERMINATOR® WHILE IT IS RUNNING.
- Sharpen blades or dice material into narrower widths if machine slows down or seems to be struggling.
- Do not use the Terminator® within one foot of walls or stationary objects. Damage to objects may occur if the Terminator® strikes them.
- Use safe, OSHA approved tools and methods for sharpening blades.
- Make sure the Terminator® has a charged fire extinguisher, working back up beacon and strobe light before operating.

## Safety Features

The Terminator® is equipped with several features to help ensure your safety and the safety of workers around you.

### Warning Light and Back-Up Alarm

An amber light is installed on the top rear section of the hood. When the Terminator's® ignition is in the ON position, the warning light will flash. When the drive control is set in REVERSE, the back-up alarm sounds to warn people nearby that the machine is backing up.

### Fire Extinguisher

A fire extinguisher with gauge is installed on the hood behind the operator's seat, within the operator's reach. As a safety measure, regularly inspect the gauge and recharge the fire extinguisher as needed to maintain full capacity. Always recharge the extinguisher after each use.

## Autostop

The Terminator® has two drive levers located to the right and left of the operator seat and a blade height lever to the left of the operator seat. The drive levers control the forward, reverse, left, and right directions of the machine; the blade height lever raises and lowers the blade. You must push (forward) or pull (reverse) and hold the levers in position to drive the machine or move the blade in the direction desired. When you release a lever, the Terminator® or blade automatically STOPS and will not move again until you push/pull and hold the levers again. However, these levers are not meant as brakes. Block wheels with a floor block when stopping on a ramp and use the emergency brake. Without the emergency brake the machine may roll forward or backwards on any sloping surface.

## Emergency Battery Disconnect

To the right side of the operator seat is a red disconnect switch with a key. This disconnect will remove power from the motor and other electronic components. Warning! Removing power from the Terminator® while on a hill or ramp can lead to a dangerous rollaway situation. Always engage the parking brake before disconnecting power.

## Safety Instructions

The Terminator® is designed for safe operation by trained, designated personnel. To help ensure your safety as a designated operator, read these safety instructions before you operate the equipment. Regardless of your experience with machinery, the Terminator® has unique features and systems which you need to know about and understand before you operate or service the machine.

## Terminator® Specifications

Element	English	Metric
Length	63.5"	1612.9 mm
Width	26.5"	673.1 mm
Height	52"	1320.8mm
Weight*	2830 Lbs	1283.7 Kg
Tires	15" OD x 8" W	381 mm OD x 203 mm W
Motor Voltage	48 VDC	
Motor Power	10 HP	7.5 KW
Batteries	6 VDC 415AH	
Motor Operating Speed	0 -3600 RPM	
Hydraulic Oil Type	ISO 46	
Hydraulic Oil Capacity	11 Gal	41.6 L
Hydraulic Relief Valve Pressure	2200 PSI	15.16 MPa

\*Weight includes the base machine and 1 Rear Weight, 3 Front Weights and 2 Wheel Weights.

### Tools & Supplies

Maintenance tools and supplies are not provided with the machine. You are responsible for purchase of these items. The following are suggested items to have on the job site.

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| <ol style="list-style-type: none"> <li>1. 4" or 7" Grinder</li> <li>2. 10"-15" Crescent Wrench</li> <li>3. 16-20 oz. Hammer</li> <li>4. 3/8" or 1/2" Socket Set</li> <li>5. Grease Gun</li> </ol> | <ol style="list-style-type: none"> <li>6. WD 40</li> <li>7. 3/4 Open End and Box Wrench</li> <li>8. Screw Driver Set</li> <li>9. Safety Glasses</li> <li>10. Ear Plugs</li> </ol> |
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## Ventilation Requirements

Charge the batteries only in well-ventilated areas. (See Battery Safety section)

## Guards, Warning Notices & Signs

The guards, warning notices and signs are placed on the Terminator® for your protection. If one of them becomes damaged or is lost, contact our Customer Service Department to order a replacement.

## Service Instructions & Personnel

Like other machinery, the Terminator® requires regular inspection and maintenance of the batteries, motor, hydraulic system and other parts. To prolong the safe and efficient operating life of the machine, clean and service it as instructed in the Maintenance section of this manual.

**Always** use trained personnel to service the equipment. **Never** allow anyone to service the equipment that has not been specifically trained to do so.

If you need help with a service or maintenance problem, contact the All Star Rents location your rented this from. Or call: 1-866-All Star

## Replacement Parts & Materials

The Terminator® is designed and engineered to operate safely and efficiently with the parts and materials installed on it in our factory. To ensure the continued safe and efficient operation of the equipment, use replacement parts and materials that meet both of the following requirements:

- Innovatech must solely authorize replacement parts and materials.
- Replacement parts and materials must be identical to the items originally provided with the machine, except as authorized by Innovatech.

Never use “equivalent” or substitute parts, except as expressly authorized by Innovatech.

If you fail to adhere to these instructions, you may cause injury to yourself and/or others, cause damage to the Terminator®, and invalidate applicable warranties.

If you are in doubt about any replacement parts or materials, call our Customer Service Department for assistance.



## Operator Controls

The operator controls consist of the drive and blade height levers, foot pedal, manual disconnect, and a power limiting.

### Drive And Blade Controls And Foot Pedal

The drive and blade controls (three levers) are located to the left and right of the operator seat. The drive levers (left and right) control the direction of rotation of the rear wheels. The blade height lever controls the vertical position of the blade. The foot pedal controls the speed of the hydraulic pump. The levers only work when the foot pedal is partially depressed and the pump is running. Operation of the drive levers is as follows.

From the view of the seated operator:

Push the left and right levers forward **together** and hold them

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in position then slowly depress the foot pedal to move the machine forward.

Pull the left and right levers back **together** and hold them in position then slowly depress the foot pedal to move the machine in reverse. (The alarm sounds.)

Push only the left lever forward to turn the machine to the right.

Push only the right lever forward to turn the machine to the left.

To adjust the blade down, push and hold blade lever forward and press the foot pedal to move the blade down. To adjust the blade up, pull and hold the blade lever back and press the foot pedal to move the blade up.

### Auto Stop

When you release the drive or blade lever, the motor continues to run (with foot control depressed) but the drive or blade motion automatically stops and will not start again until you push or pull the levers again.

### Emergency Brake

The Terminator® is supplied with an emergency brake to prevent un-intended movement when left unattended. The brake handle is located to the left of the operator seat. Pull the handle up to engage the brake, push the handle down to release the brake. To increase tension on the brake you can rotate the end of the handle in a clockwise direction. Rotate the end of the handle counter clockwise to reduce the tension.

### Power Limiter

The power limiter allows the top output speed to be set from 70% to 100%. This will allow you to conserve power during normal operation when top speed is not required. (Increasing motor power will reduce the run time of the machine)



### **Manual Disconnect And Lockout**

The manual disconnect is located to the right side of the operator seat. To enable operation of the Terminator<sup>®</sup> unlock the manual disconnect lock and pull up. In case of emergency push down to remove power from all electrical components. Always push down this switch to OFF when the Terminator<sup>®</sup> is not in use.

### **Electric Motor and Batteries**

The electric motor and batteries are located under the top cover. The electric motor provides the power to the hydraulic pump to drive the Terminator<sup>®</sup>.

The electric motor requires little maintenance, inspect wire connections and check for debris to maintain its efficiency and prolong its operating life.

Battery life can be ensured by proper periodic maintenance. Ensure that battery water levels remain sufficiently high to cover the battery electrode plates. Distilled or de-ionized water can be used to replace lost water. Avoid using tap or well water as the minerals present can reduce the effectiveness of the batteries and shorten battery life. Batteries should be charged before placing the Terminator<sup>®</sup> into long term storage. The stored battery should be charged monthly when not in use to prolong battery life. A maintenance charge cycle should be performed every 5th charge to maintain optimum battery performance.

### **Displays and Indicators**

#### **Battery Display And Hour Meter**

The battery display shows pump use time, key power time and battery life. (When the last box starts to blink, you have about 15 minutes before battery power is exhausted.)

#### **Hydraulic Oil Over Temperature Indicator**

Normal temperatures are below 120°F. Do not allow the hydraulic fluid to exceed 200°F because it may damage the hydraulic system and in turn, damage the Terminator<sup>®</sup>. If the indicator light is continually coming on, turn machine off and let it cool for 45-60 minutes. If the light regularly turns on, call Innovatech Service Department. If you regularly work in a hot climate you may need a hydraulic cooler.

#### **Hydraulic Filter Clog Indicator**

The hydraulic oil filter is equipped with a clog indicator which will illuminate when the hydraulic oil filter is clogged. (Note: The indicator may also inadvertently come on in cases when the hydraulic oil is very cold, the light will stop illuminating once the hydraulic oils has warmed to normal operating temperature.)

## Blade Assembly

Blades are available in different configurations and thickness. An assortment of blades is included in the purchase price of the Terminator®. Extra blades are available upon request from Innovatech Products & Equipment Co., Inc.

### Installing a Blade

- 1.) Raise the blade assembly to maximum up position, which is five inches off the floor.
- 2.) Unwrap the pre-sharpened blades and select the blade thickness and length you need for the job.
- 3.) Loosen the 7 holding bolts.
- 4.) Insert the sharpened blade.
- 5.) Tighten bolts firmly, starting from the center and working out. Bolts should be snug but not over tightened.

### Taking Up Floor Coverings

- 1.) Insert blade. (As explained above)
- 2.) Lower blade to floor. Lift caster wheel off the floor ¼ inch. Use previous procedures to drive forward.
- 3.) As the Terminator® is removing flooring material, it is recommended to have another person at the side of the machine remove all debris.

## Ballast

The Terminator® is equipped with weights in front (75 pounds each) and rear (125 pounds each) to provide traction for tough jobs. These weights can be removed to reduce traction for certain jobs, and to transport the Terminator® by forklift or truck or elevator. Wear gloves when handling these weights. Use caution to not smash toes and fingers. Use OSHA approved lifting technique.

## Tricycle Or Caster Wheelbase And Tires

The tricycle wheelbase allows better turning ability. The wheel bearings on the front caster roller require lubrication with grease every 30 hours of machine operation. There are three fittings, two on the wheel and one on the housing. When running over debris such as carpet, the carpet yarn will get caught between the wheel and the housing. Clean out wheel and housing regularly.

The rear tires are solid rubber, tubeless, and require no maintenance. Over time, they may wear out and need to be replaced. Before each job, inspect the rear tires and lug bolts. Tighten the lug bolts as needed to 70 foot-pounds torque. It is important to keep the lug bolts tight.

Wheel hub should be tightened from 310 to 350 ft.-lbs. Inspect and re-torque every 60 hours of operation. Lift machine off of floor so no weight is on wheel when re-torquing pack nut.