

Important Safety Instructions



WARNING: THE TERMINATOR T-2200PRO CAN PRODUCE CARBON MONOXIDE WHILE THE ENGINE IS RUNNING. PROVIDE ADEQUATE VENTILATION WHEN OPERATING THE TERMINATOR T-2200PRO IN AN ENCLOSED BUILDING. 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 RECOMMENDED 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.
- **ALWAYS WEAR A HARD HAT.** Wear head protection to protect the head from flying debris. All personnel in the work area, including the operator, must always wear a hard hat when operating the machine.
- **ALWAYS PROVIDE PROPER VENTILATION.** Ventilation is required when using the Terminator T-2200PRO. Positive or negative pressure ventilators must be used in any enclosed space where the machine is to be used. Use Carbon Monoxide (CO) monitoring when the machine is used in doors. The Carbon Monoxide generated by propane engines can be hazardous to your health if proper ventilation is not provided.

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 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 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® of 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.

Auto-stop

The Terminator® has two drive levers located to the right and left of the operator seat. The drive levers control the forward, reverse, left, and right directions of the machine; the blade height slider module raises and lowers the blade. You must push (forward) or pull (reverse) and hold the levers in position to drive the machine in the direction desired. Additionally there are dead man levers on the front of each joystick and an operator presence switch in the seat. When you release both dead man levers or get off the seat the Terminator® automatically STOPS and will not move again until you push/pull and hold the levers again and sit in the seat. However, these safety features 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

Under the hood at the front of the engine is a battery disconnect. 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.

Loading/Unloading Procedures:

- Do not load or unload the Terminator® on uneven ground.
- Ensure ramps into moving vehicles are stable and square to the ground.
- Always turn the Terminator® OFF when you transport the Terminator® by forklift or other vehicle.
- Load and unload the machine with a properly weighted forklift or lift-gate.
- Make sure all safety stops are installed on a lift-gate before loading or unloading.
- Never position yourself under or around the machine while moving it with other machinery.
- Park the machine with the blade completely down after loading.
- Properly secure the machine with chains, tire chocks, and other necessary tie downs.
- Never ride in a moving vehicle next to a Terminator®. It may tip, causing severe injury.

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

The drive controls 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 slider module controls the vertical position of the blade. The throttle slider module controls the RPM of the engine.

From the view of the seated operator:

Push the left and right levers forward **together** and hold them in position 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 slider forward.

To adjust the blade up, pull and hold the blade switch back.

Auto Stop

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

Operator Presence Switch and Safety Grips

The Terminator T-2200PRO is equipped with an operator presence switch and trigger switches on the under side of the left and right grips. The operator must be seated on the operator seat and hold either of the safety switches to operate the machine. The wheel hydraulics will not function without an operator and one of the switches being held.

Warning: The Terminator T-2200PRO will stop abruptly if both trigger switches are released or if the operator tries to leave the seat while the machine is moving.

Emergency Brake

The Terminator® is supplied with an emergency brake to prevent an 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.

Carbon Monoxide Warning

IMPORTANT!

Carbon Monoxide – What Service Personnel Should Know!

OSHA Requirement

The CO level shall not exceed 35 ppm measured over an 8-hour period in the work environment.

How does parts per million (ppm) relate to percentage numbers?

One million parts per million equals one hundred percent of the engines exhaust gases.

- 10% CO EQUALS 100,000 PPM
- 1% CO EQUALS 10,000 PPM
- .1% CO EQUALS 1,000 PPM
- .01% CO EQUALS 100 PPM

For each one one-hundredth of one percent, you will have 100 ppm.

Example: $.01\% \times 1,000,000 \text{ ppm CO} = 100 \text{ ppm CO}$.

With adequate ventilation and following the enclosed adjustment instructions, you should be able to keep the carbon monoxide level below the OSHA requirement.

We strongly recommend the use of a carbon monoxide analyzer.

Displays and Indicators

Tachometer and Information Display

The tachometer shows the current RPM. The information display shows the instantaneous readings of selected engine sensors. In addition, the information display can show any active error codes from the engine control unit (ECU).

Malfunction Indicator Light

The Malfunction Indicator Light (MIL) will illuminate when the engine is running out of specification. The illumination of the MIL will typically be accompanied by an error code. The error codes can be accessed and displayed on the information display.

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 (75 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.-lb. 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.

Propane Safety

Liquid petroleum gas (propane) is flammable and potentially explosive. ALWAYS obey proper handling, lighting, and ventilating procedures provided by the manufacturer. In addition, obey the safety warnings and procedures below, which are provided to supplement, not replace, or substitute for the manufacturer's instructions.

NOTE: All new propane tanks must be purged before use.

Precautions and Warnings

Wear insulated gloves when you handle propane tanks.

Do not attempt to adjust the pressure regulator because the manufacturer sets it. Only a qualified liquid petroleum gas service technician should make any required adjustments.

Inspect the fuel lines and connectors before each job or at the beginning of the day, to detect any leaks or potential problems. NEVER check for propane leaks with an open flame.

NEVER use ammoniated household-type detergents to detect leaks or to clean any portion of the fuel system or the tank. These substances can cause cracks on brass fittings and on the fuel line. If the leak cannot be located, take the tank to a certified liquid petroleum gas service representative.

NEVER store or carry propane containers in a closed space or inside your passenger vehicle. Propane containers are equipped with safety devices that relieve excessive pressure by discharging gas to the atmosphere and leaks can occur at the fittings or connectors.

NEVER fill a tank more than 80% of capacity. Overfilling can

cause uncontrolled gas flow, which in turn, can cause fire and/or explosion.

What to Do If You Smell Gas

1. Immediately extinguish any open flames, pilot lights and all smoking materials.
2. Turn the engine OFF; do not touch any electrical switches or other device that may produce sparks.
3. Shut OFF the fuel flow switch.
4. Open all doors and windows to allow maximum ventilation.
5. Leave the area until the odor clears.
6. Inspect the fuel lines and connectors to determine the source of the leak. Correct the problem before you use the Terminator T-2200PRO again.