



# **RAZER**

## **OPERATORS' INSTRUCTION MANUAL**

Per OSHA 1926.503 it is the machine owner's responsibility to ensure that all workers using this Razer are thoroughly trained in its' use and limitations.



Roofmaster provides this Operators' Manual as a tool to help instruct the owner/worker in the proper use of this machine. Roofmaster expects the reseller and machine owner to make every effort to abide by OSHA 1926.503 and educate the worker in the proper use and limitations of this machine before putting it into service.

**Keep this Manual with the Razer at all times. This will allow new users to read it before operating the Razer.**

**It is the Razer owner's responsibility to ensure that all workers using this vehicle are thoroughly trained. Provide workers with this Operator's Manual and make sure they understand its contents. Read it to them if necessary. Letting poorly trained workers use this machine can result in property or machine damage and/or serious injury or death to personnel.**

**WARNING! THIS MACHINE IS DESIGNED FOR USE ON FLAT, LEVEL ROOFS ONLY. ANY OTHER USE CAN CAUSE INJURY OR DEATH TO OPERATOR.**

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## OPERATOR PREPARATION

### Read Instructions

Reading the instructions completely is the first step to safe operation. An uninformed operator can subject themselves and others to serious injury or death.

### Wear Proper Attire

Wear safety glasses and protective clothing if any cutting, scraping, or sweeping is being done in the work area during operation. Wear safety shoes. Hard hat must be worn by operator when work is being done overhead. When working with hot stuff, long sleeved cotton shirt buttoned at sleeves and collar must be worn (or other suitable protective clothing). Long pants without cuffs, and a face shield are also required when working with hot bitumen.

## ROOF PREPARATION

### Inspect Roof Deck

Before allowing equipment and personnel access to roof, make certain roof is strong enough to support the weight of the machine, operator and all personnel working near the machine. Clear the area of all potentially dangerous obstacles that could cause personal injury to the operator or others. Keep unauthorized people away from construction area. **WARNING! Check to see that all roof openings are guarded per OSHA regulations. Failing to do so may cause injury or death.**

### Maintain Warning Line System

Operation of the Razer must be in compliance with Federal OSHA standards governing perimeters with respect to the use of power equipment. When operating parallel to roof edge, warning line system must be at least six feet from the edge. When operating perpendicular to edge, warning line must be ten feet from roof edge. For specific information on warning lines, the use of guard rails and motion-stopping-safety-systems, refer to section on OSHA law.

## HOISTING MACHINE TO ROOF

### Inspect the Hoist

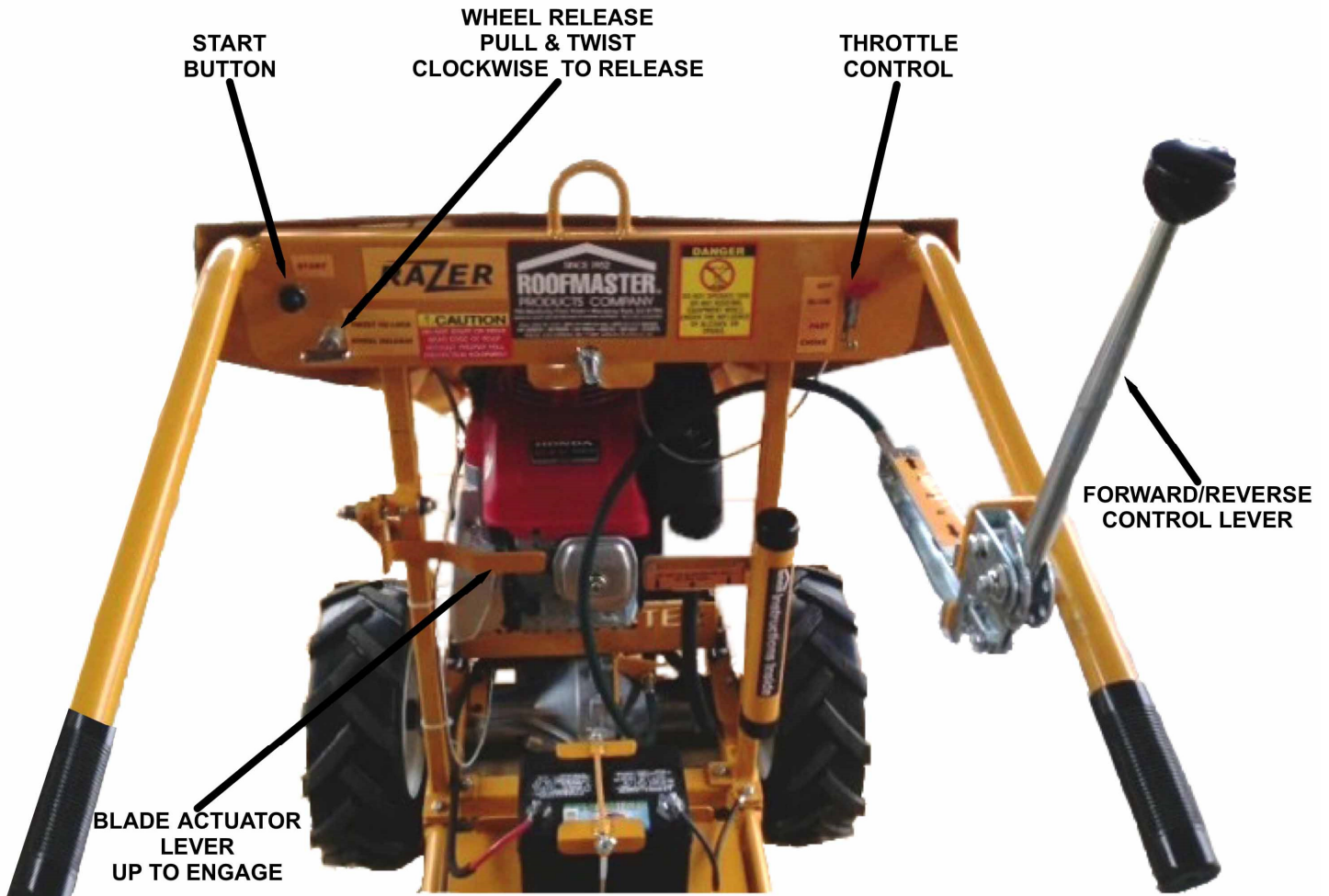
Make certain hoist is in safe operating condition and operated by trained personnel. The hoist should be clear of ground objects, such as power lines; it should be secure and properly counter-balanced. Hoist should be inspected for frayed cables, bent frame members or faulty mechanical parts. Make sure everyone on the ground is completely clear of the hoisting area.

### Connecting Razer To Hoist

Attach Hoist Hook to the Lift Ring on center of Control Panel.

The machine weighs 584 lbs. Do not attach hook to any other part of this machine. Use only hooks equipped with a spring loaded catch





**Throttle Control Lever**

Controls engine on-off, speed and choke.

**Forward/Reverse Lever**

Controls machine movement, either forward or reverse. Lever must be held forward to move forward and back to move in reverse. Lever will return to neutral (middle) when not held forward or back.

**Blade Actuator Lever**

Controls the actuating (back and forth) movement of the blade. This lever has two positions. All the way up is in the engage (moving) position. All the way down is in the disengage (off) position.

**Wheel Release**

Disengages transmission so machine can be pulled around without power

**Start Button**

Starts engine when throttle is set to "Choke"



TO PREVENT TRIPS OR FALLS THROUGH HOLES IN ROOF, NEVER OPERATE MACHINE WHILE WALKING BACKWARD



TO AVOID SERIOUS INJURY OR DEATH FROM FALLS OFF ROOF NEVER WORK IN AN AREA OF THE ROOF WHERE THERE IS NOT AN OSHA APPROVED GUARD RAIL SYSTEM INSTALLED

## MACHINE OPERATION

**Warning:** Clear the work area of all debris or obstacles that could cause personal injury to the operator or others

First prepare the area to be torn off by sweeping the gravel clear and cutting the roofing material into squares. Square size can be at your preference, keeping in mind ideal size for use with trash chutes is approximately 21". If trash chutes are not a consideration, an ideal size would be about 30" square.

With the work area cut to size, position the Razer to where the work is to be started. Pry-up the first square by hand and position the blade of the Razer to come into contact with the next square of the tear-off. Tear-off can now begin.

**WARNING:** Stop forward movement and actuating blade (if engaged) when personnel are removing tear-off debris from the machine tear-off ramp.

Start machine (position Throttle Control lever to "Choke" position, push "Start" button). When engine has started, move Throttle Control lever to Slow or Fast

Move Forward/Reverse lever forward and hold, to move forward. Allow the blade of the Razer to pry-up the material and slide up the ramp.

Additional personnel can then pick the material off the ramp and load onto carts for transport to dump area.

If a particularly difficult area is encountered in the tear-off job, the actuator blade should be used. To engage the actuating (moving) blade, move the blade actuating lever down to the engage position. Then hold the Forward/Reverse lever forward to move ahead. The moving blade will pry up the toughest jobs with a razer-like action. Only use this feature when necessary.

Blade Pitch Adjustment: Blade pitch can be adjusted to cut lower than the depth set by the manufacturer. First loosen the two bolts on the side of the blade frame (1). Loosen the two jamnuts on the underside of the blade (2) Turn both adjustment bolts (3) to same amount and re-tighten the jamnuts. Re-tighten the two bolts on the outside of the blade frame and recheck performance. To replace or flip the blade, remove the two bolts from blade underside.



When working on a metal deck, the machine should tear-off materials in line with the flutes of the roof. Do not tear-off at right angles to the flutes or damage could result to the roof deck. Also, run your tear-off machine "with the grain" of the seams. Do not run the machine so that the blade drives into a seam, but rather plan the tear-off coming from the other direction. This will avoid potential damage to the roof deck

## ENGINE LUBRICATION AND SERVICE

**Read Honda maintenance instructions.** To prolong the life of your engine, change engine oil after 5 hours of initial use and every 8 hours thereafter. Use unleaded gasoline for longer valve life.

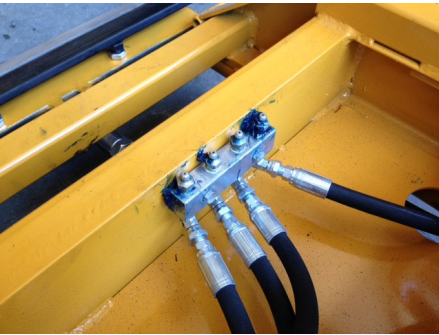
If service or repair of engine is needed, contact your local Honda Service Center. You will need the model, type and code number of your engine (located on blower housing).

**Roofmaster Products Company warranty does not cover the engine. This is covered by a separate warranty from Honda.**

## ENGINE MAINTENANCE

**Read and follow the Honda maintenance instructions.** Engine oil should be changed after every 8 hours of use because this application of the engine produces higher temperatures and tends to break down the oil more quickly. SAE20 and SAE30 is recommended by Honda. Keep the cylinder head clean so that it can cool the engine properly.

## RAZER MAINTENANCE



The Razer comes with a 4-Port Grease Block.

These ports service both actuator support bearings and both crank shaft bearings. Actuator Rod Bearing is accessed from under the Razer frame. Grease these points EVERY 10 HOURS OF OPERATION. Grease Actuator Lever AS NEEDED.



The Razer has the newest hydrostatic transaxle that requires no hydraulic fluid. The Razer only requires 20-50 Motor Oil, which should be filled to the bottom of the reservoir mounting bracket.

## RAZER SERVICE

Razer is to be serviced and repaired by a qualified Service Center Technician only. Faulty or incomplete repairs can lead to machine damage and/or serious injury to technicians and workers operating this machine. Call your authorized Roofmaster Distributor for service and repairs.